# Magmatic minerals of the eastern Sunda arc, Indonesia

## Mitchell Marcelissen

Submitted in partial fulfillment of the requirements for the degree of

# **Master of Science - Geology**

Supervisors: Dr. Peter Hollings (Lakehead University) and Dr. Ivan Belousov (CODES – University of Tasmania)

Department of Geology

Lakehead University

Thunder Bay, Ontario

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#### Abstract

The eastern Sunda arc is one of the most prospective Cu-Au magmatic belts in the world with four world class copper-gold porphyry deposits: Batu Hijau (1.64 Gt at 0.44% Cu, 0.35 g/t Au), Elang (2.42 Gt at 0.31% Cu, 0.33 g/t Au), Tumpangpitu (1.90 Gt at 0.45% Cu, 0.45 g/t Au) and Hu'u (1.70 Gt at 0.89% Cu, 0.49 g/t Au).

Magmatism along the belt spans the late Oligocene to Pliocene, with the majority of giant porphyry systems forming in the last 5 m.y. New geochronology confirms a consistent east-younging in central and eastern Java from Trenggalek (~15 Ma) through Salakan (~8.5 Ma) and Jember (~7 Ma), to the pre-mineralization phases (~6.5 Ma) and synmineralization phases (~4 Ma) at Tumpangpitu. ). New ages on Lombok show a westward younging in SW Lombok from Kuta, Plambik and Lembar in the east (20-17.5 Ma) through Songkang (~10-8 Ma), Selodong (~7.5 Ma) and Brambang (~7 Ma). On Sumbawa, there is a general younging from west to east from Nangka (~6.5 Ma), Naga Emas (~5 and 3.5 Ma) to Batu Hijau (~4.5-3.5 Ma) and the Elang district (~3.0 to 2.5 Ma). Middle-Micoene intrusions on Lombok (Lembar, Plambik, Kuta) were previously unknown, and extend the limit of Middle-Miocene magmatism to Lombok.

All mid-Miocene and younger (< 15 Ma) intrusions in the eastern Sunda arc have a prospective zircon Eu/Eu\* and Ce/Ce\* signature related to high water content and oxidation state. These signatures are similar for all intrusions of this age, and do not significantly vary based on the known metal endowment. All Oligocene to mid-Miocene intrusions (> 15 Ma) have zircon Eu/Eu\* and Ce/Ce\* signature consistent with drier and less oxidized magmas that are less conducive to economic porphyry mineralization. The

pronounced change in zircon prospectivity signatures at approximately  $\sim \! 15$  Ma likely marks a significant change in arc-scale geodynamics possibly related to initiation of subduction of the Roo Rise and demonstrates the potential of zircon as a regional discriminatory tool for evaluation of porphyry systems within the eastern Sunda arc. All east Java to Sumbawa sites have zircon Hf isotopes (average  $\epsilon Hf(t) \sim \! 14.5$ ) with a very depleted or juvenile melt source signature with minimal input from older lithosphere. This signature is in strong contrast to west Java, low-sulfidation epithermal-dominated regions that show strong crustal contamination negative  $\epsilon Hf(t)$  signatures.

Apatite textures and compositions are incredibly diverse. Elevated values of Cl and S in magmatic apatite have potential to be useful indicators for eastern Sunda arc porphyry prospectivity; however, those signatures are not ubiquitous to large, mineralized porphyry Cu-Au deposits within the region. Trace elements of both magmatic and hydrothermal apatites do not show systematic or consistent changes between strongly and poorly mineralized porphyry systems. Within the eastern Sunda arc, hydrothermal apatite compositions are strongly tied to primary magmatic composition, and are influenced, but not entirely a result of, hydrothermal fluid characteristics.

The majority of BSE-zoned rutile grains with high-W are associated with < 5 Ma world-class porphyry deposits at Elang, Batu Hijau, and Tumpangpitu. There is a transition from prevalent high-W, zoned rutile at large porphyry deposits, to low-W, unzoned rutile at sub-economic or small porphyry systems. Within the eastern Sunda arc, W-rich zoned rutile has the potential to be an effective proxy for porphyry-Cu mineralization, especially pertaining to regional exploration, such as in detrital stream sediment surveys.

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#### List of Abbreviations

AA advanced argillic

act actinolite
alt alteration
alu alunite

AMICS advanced mineral identification and characterization system

anh anhydrite az azurite

Blbs billion pounds

bn bornite brt barite

BSE backscattered electron

bt biotite
cb carbonate
ccp chalcopyrite
cct chalcocite
cg coarse-grained

chl chlorite

CL cathodoluminescence

CODES Centre of Excellence in Ore Deposits

cpx clinopyroxene

CSL Central Science Laboratory

czo clinozoisite dck dickite

DEM digital elevation map

diss disseminated dsp diaspore

EMPA electron microprobe analysis

en enargite
ep epidote
fg fine-grained

g/t grams per metric ton

gm groundmass
Gt billion tons
gth goethite
hbl hornblende
hem hematite

HSE high-sulfidation epithermal

IA intermediate argillic

ICP-AES inductively coupled plasma atomic emission spectroscopy

ICP-MS inductively coupled plasma mass spectroscopy

ilt illite

kln kaolinite

LA-ICP-MS laser ablation inductively coupled plasma mass spectroscopy

lm limonite

LOI loss on ignition

LSE low-sulfidation epithermal

Ma mega annum (millions of years before present)

mag magnetite

mg medium-grained

mlc malachite mod moderate

Moz million (troy) ounces

MSWD mean squared weighted deviation

Mt million tons
opx ortho-pyroxene
phenos phenocrysts

PIMs porphyry indicator minerals

plag plagioclase
prl pyrophyllite
py pyrite
qtz quartz

REE rare-earth element

SEM scanning electron microscopy

sme smectite srp serpentine

SRTM Shuttle Radar Topography Mission data

st strong tr trace

UTM Universal Transverse Mercator

vfg very fine-grained

wk weak

Wt. % weight percent micrometer

#### **Chapter 1: Introduction**

## 1.1 - Objectives

This study was completed as part of Amira Global project P1202 "Far-field and nearmine footprints" sponsored by 14 mining and exploration companies that include: Anglo American, BHP, Boliden, Codelco, Fortescue, Freeport-McMoRan, Merdeka Copper Gold, Mount Isa Mines, Newcrest Mining, Newmont, Northparkes, Rio Tinto, Teck and Vale. The P1202 project expanded on and applied techniques developed in previous Amira Global programs (P1153, P1060, P765A, P765) that focused on, and were successful in developing mineral chemistry vectors within porphyry copper and epithermal environments.

The main objective of this study was to investigate magma fertility and prospectivity indicators in zircon, apatite, titanite and rutile (Porphyry Indicator Minerals or PIMs, e.g. Cooke et al., 2020) from several porphyry Cu-Au deposits and prospects along the eastern Sunda arc, Indonesia. The breadth of study sites within this study is unique in that it contains systems across a full spectrum of known mineralization; from untested prospects, through poorly endowed or sub-economic systems, to world-class deposits and their satellites. As such, it provided an excellent opportunity to investigate PIMs, or prospectivity indicators within a range of porphyry environments. A second objective was to contribute to the understanding of the tectonomagmatic evolution of this arc segment using U-Pb geochronology and zircon Hf isotopes.

## 1.2 – Study location

This study contains samples from 25 different localities throughout the Indonesian islands of Java, Lombok, and Sumbawa (Fig. 1.1). They include a mix of established exploration sites and mines with access to major roadways and proximity to cities as well as unexplored prospects with more limited access. Location details for individual samples are described further in Chapter 4 and sample location data and UTM co-ordinates are listed in Appendix A.

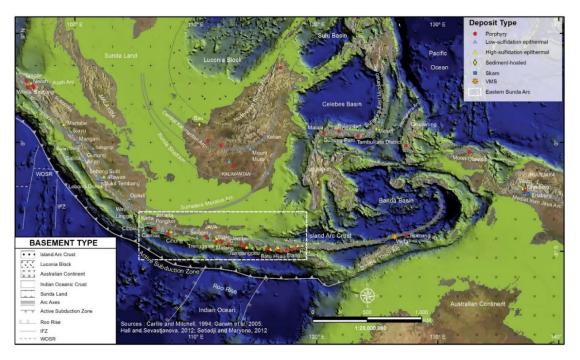


**Figure 1.1:** Sample sites within the eastern Sunda arc at central and east Java, Lombok, and Sumbawa. Satellite image obtained from Google Earth (Image © TerraMetrics, 2023).

## **Chapter 2: Regional Geology**

#### 2.1 - Introduction

The Sunda-Banda arc is approximately 3,900 km in length, stretching from Sumatra southeast through the islands of Java, Bali, Lombok, Sumbawa and continues east to the Flores and Damar islands (Carlile and Mitchell, 1994; Setijadji et al., 2006; Maryono et al., 2018; Fig. 2.1). The islands of Java, Lombok and Sumbawa are dominated by Oligocene to Quaternary volcanic and magmatic complexes, associated with porphyry Cu-Au and low-, intermediate- to high-sulfidation epithermal Ag-Au systems.



**Figure 2.1:** Distribution of major porphyry and epithermal deposits and prospects and tectonic features of the Sunda-Banda arc. The eastern Sunda arc (Java to Sumbawa) is highlighted in white. From Maryono et al. (2018).

#### 2.2 - Regional setting

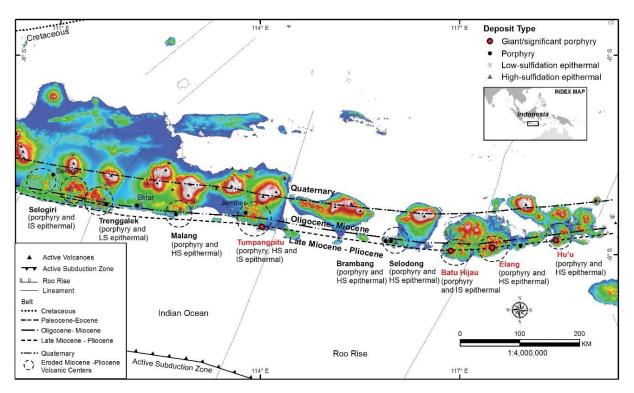
The eastern Sunda arc is one of the most prospective Cu-Au magmatic belts in the world (Maryono et al., 2018) with four world class copper-gold porphyry deposits: Batu

Hijau (19.9 Moz Au; 19.6 Blbs Cu; Clode et al., 1999), Elang (25.4 Moz Au; 16.3 Blbs Cu; Newmont, 2012), Tumpangpitu (29.9 Moz Au; 19 Blbs Cu; Intrepid Mines Ltd., 2012), and Hu'u (27 Moz Au; 30 Blbs Cu; Burrows et al., 2020) comprising the main Cu-Au resources within the region. West Java is host to several low-sulfidation epithermal and porphyry Au systems whereas east Java, Lombok, and Sumbawa are dominated by porphyry Cu-Au systems, a feature which has been attributed to differences in the underlying crust (Setijadji et al., 2006; Setijadji and Maryono, 2012).

The eastern Sunda arc (Java to Sumbawa) contains predominantly four east-west parallel magmatic belts of Paleocene to Eocene, Oligocene to Early Miocene, Late Miocene to Pliocene and Quaternary ages (Carlile and Mitchell, 1994; Garwin, 2000; Setijadji et al., 2006; Maryono et al., 2018; Fig. 2.2). The western portion of the eastern Sunda arc (west Java) developed on Sundaland continental crust, with the eastern portion on thinner oceanic crust (east Java to Sumbawa; Carlile and Mitchell, 1994; Hall, 2002; Setijadji et al., 2006). The magmatic belts cross the boundary between continental and oceanic crust basement, with central and east Java likely built on crust of a transitional character (Garwin, 2000). Smyth et al. (2007) found inherited Archean-Cenozoic zircons in Cenozoic rocks of east Java. Until recently, Cretaceous basement was thought to be restricted to western Java; however, Cretaceous zircons have been identified in samples from the Tanjung Jahe diatreme at Tujuh Bukit, suggesting that continental crust extends further east than previously thought (Harrison, 2017).

Subduction along the eastern Sunda arc is steeply north-dipping approximately 50 to 70 degrees, in contrast to shallower and oblique subduction within other sections of the

Sunda-Banda arc (Garwin, 2000; Garwin et al., 2005). The Roo Rise, an oceanic plateau constructed on Early Cretaceous oceanic crust, is inferred to have begun colliding in the Miocene-Pliocene (Garwin, 2002; Garwin et al., 2005). The arc contains a series of NE-trending transform faults coincident with the boundaries of the Roo Rise, which have been interpreted to be a result of subduction of this thickened oceanic crust (Garwin et al., 2005; Setijadji et al., 2006; Hall, 2009).



**Figure 2.2:** Digital elevation map (SRTM) of the eastern Sunda arc with epithermal Au and porphyry Cu-Au occurrences within remnant volcanic centres of Paleocene-Eocene, Oligocene-Miocene and Late Miocene-Pliocene age (Hamilton, 1979; Carlile and Mitchell, 1994; Hall, 2002; Setijadji et al., 2006). From Maryono et al., 2018.

Within the eastern Sunda arc, detailed studies of deposit geology, alteration, and mineralization have largely focused on Batu Hijau (Meldrum et al., 1994; Maula and Levet, 1996; Ali, 1997; Clode et al., 1999; Garwin 2000, 2002; Arif and Baker, 2004; Idrus et al., 2007; Fiorentini and Garwin, 2010; Large et al., 2020; Schirra et al., 2022). Publications are

limited for Tumpangpitu (Norris, 2011; Maryono et al., 2013; Harrison, 2017; Harrison et al., 2018), Elang (Maula and Levet, 1996; Maryono et al., 2005; Hoschke, 2012), Selogiri (Imai et al., 2007; Warmada et al., 2007; Sutarto et al., 2016), and Brambang (Maryono et al., unpub. report, 2013). Maryono et al. (2018) provides comprehensive descriptions of geology, alteration, geochronology and mineralization characteristics of Batu Hijau, Elang, Tumpangpitu, Brambang, Selodong and other significant porphyry Cu-Au systems throughout the eastern Sunda arc. Consequently they will not be discussed in detail here, with only key features highlighted.

The eastern Sunda arc mainly consists of Cenozoic low-K calc-alkaline andesitic volcanics and interbedded volcaniclastic rocks with minor clastic and carbonate sedimentary rocks that extend from Java to Sumbawa (Meldrum et al., 1994; Suratno, 1995; Maula and Levet, 1996; Garwin, 2000; Setijadji et al., 2006). In general, intrusive rocks young to the east, from Eocene to Pliocene (Maryono et al., 2018).

The eastern Sunda arc islands of Java, Lombok and Sumbawa are host to numerous variably endowed porphyry systems. These deposits and prospects share a number of characteristics, including association with remnant Miocene volcanic centres, low- to moderate-K calc-alkaline magmas, pre-mineralization equigranular felsic batholiths, formation in clusters at intersections of major structural corridors, Neogene magmatism associated with porphyry Cu-Au style mineralization, and the occurrence of low-, intermediate-, and high-sulfidation epithermal style mineralization (Meldrum et al., 1994; Garwin, 2000; Maryono et al., 2005, 2018; Harrison et al., 2018). These porphyry-epithermal districts are mainly hosted within andesitic volcanic complexes that comprise

the majority of exposed rock throughout the region. Mineralized porphyry systems within the Sunda arc consist of multiphase intrusive complexes, often occurring as clusters within districts and vary in scale from 0.16 to 0.64 km<sup>2</sup> (Maryono et al., 2018).

In broad terms, pre-mineralization intrusive units are generally Miocene in age and consist of microdiorites, diorites, or quartz diorites, often exhibiting low  $K_2O$  contents less than 0.8 wt. % (Meldrum et al., 1994; Clode et al., 1999; Maryono et al., 2005, 2018). These pre-mineralization intrusions generally form a large footprint of several square kilometers, for example the diorite at Tujuh Bukit that exceeds  $10~\rm km^2$  in lateral extent at depth (Harrison, 2017). The units intrude the volcanic-sedimentary rock assemblages often within remnant volcanic-plutonic centres.

The mineralizing intrusive complexes generally consist of two to five phases such as those that have been well documented at Tumpangpitu (Harrison and Maryono, 2012; Harrison, 2017), Selodong (Rompo et al., 2012), Brambang (Maryono et al., 2013, 2018), Batu Hijau (Clode et al., 1999; Garwin, 2002; Maryono et al., 2018), and Elang (Maryono et al., 2005). The causative intrusions are generally quartz diorite to tonalite and dominated by plagioclase (>50 vol. %) and quartz (10-20 vol. %). These mineralized complexes are largely elongate and generally follow regional NW-trending structures, 200 m to 1,200 m in diameter with > 1 km vertical extent and comprise the cores of the Au-Cu porphyry orebodies (Maryono et al., 2018).

Several of the deposits host late, post-mineralization diatreme breccias that intersect porphyry mineralization. Diatreme breccias have been mapped at Elang (Maryono et al., 2005), Batu Hijau (Clode et al., 1999; Priowasono and Maryono, 2000),

Brambang and Selodong (Maryono et al., 2013), Tujuh Bukit (Harrison and Maryono, 2012; Harrison, 2017), Trenggalek (Arc Exploration Ltd, 2013), and Selogiri (Warmada et al., 2007). Diatremes within the region are often contain andesitic magma and occur as coneshaped circular bodies with varying sizes, from 0.15 km² at Brambang to 7.0 km² at Tujuh Bukit (Maryono et al., 2013; Harrison, 2017). These diatremes generally post-date porphyry mineralization, but can host late-stage epithermal alteration, as at Tujuh Bukit. Tujuh Bukit is unique as it also contains a pre-mineralization diatreme breccia at Tanjung lahe (Harrison, 2017).

Limited information is available for other smaller systems and prospects within the study region. There are minor, poorly endowed porphyry, low- and high-sulfidation systems in Java at Trenggalek, Tulungagung and Jember; Lombok at Songkang, Kuta, Plambik, and Lembar; and Sumbawa at Nangka, Naga Emas, Gerbang and Sepekat.

Trenggalek district consists of a series of epithermal and porphyry Cu prospects, including Singgahan, Jerambah, Kali Petang, and Kebo Gemulung (PT Sumber Mineral Nusantara, 2019). Tulungagung contains a poorly-endowed porphyry/HSE system at Sinawang (Arc Exploration, 2013). Jember and Lombok prospects (Songkang, Kuta, Plambik, Lembar) have no mapping or detailed studies, but are samples from prospective, mineralized tonalite and quartz diorite outcrops. Sumbawa sites (Nangka, Naga Emas, Gerbang and Sepekat) are peripheral to deposits at Batu Hijau and Elang deposits, respectively, but have no formal studies or company reports available. Despite this, these prospects share similar geology and alteration features to the well-endowed systems mentioned previously.

#### Chapter 3: Methodology

## 3.1 Sample collection

Sampling within Indonesia was completed over the northern hemisphere summer of 2020, with various delays and complexities due to COVID-19 lockdowns within the region. PT Amman Mineral provided twenty-four samples from Sumbawa within the Batu Hijau district (Batu Hijau, Nangka, and Naga Emas) and Elang district (Elang, Gerbang, and Sepekat). Merdeka Copper Gold provided twenty samples from the Tujuh Bukit district in Eastern Java (Tumpangpitu and Salakan). PT J. Resources collected 29 samples from Brambang, Selodong, Songkang, Plambik, Kuta, and Lembar prospects on Lombok and 25 samples from Eastern Java sites, including Selogiri, Tulungagung, Trenggalek, Pacitan, Ponorogo, Malang, and Jember. In total, 97 samples were collected throughout Java, Lombok, and Sumbawa from 29 different deposits and prospects (Fig. 3.1). Fifty-seven samples are from drill-core and 40 samples are rock chip samples from outcrop or open-pit walls.

The objectives of sampling were to collect samples representative of magmatic minerals including zircon, apatite, and titanite as well as hydrothermal rutile rather than focusing on representative mineralization of the respective sites.

#### 3.2 Whole-rock geochemistry

A total of 97 samples were analysed for their major and trace element whole-rock compositions. Sample sites are shown in Figure 3.1 and data provided in Appendix A. All



**Figure 3.1:** Sample sites within the eastern Sunda arc at central and east Java, Lombok, and Sumbawa. Satellite image obtained from Google Earth (Image © TerraMetrics, 2023).

samples selected for whole rock geochemistry are fragments of larger samples, the remainder of which was retained for petrographic analysis and mineral separation. Whole rock geochemical analyses were completed at ALS Canada Laboratories in Thunder Bay, Ontario, Canada. Samples were prepared for analysis by being weighed, dried, and crushed to 70% under 2 mm. Up to 250 g of the sample was then split and pulverized to 85% through a 75 μm mesh. Loss on ignition (LOI) was calculated from changes in sample weight before and after heating to 1,000°C. Major element oxides SiO<sub>2</sub>, Al<sub>2</sub>O<sub>3</sub>, Fe<sub>2</sub>O<sub>3</sub>, CaO, MgO, Na<sub>2</sub>O, K<sub>2</sub>O, Cr<sub>2</sub>O<sub>3</sub>, TiO<sub>2</sub>, MnO, P<sub>2</sub>O<sub>5</sub>, SrO and BaO (ME-ICPO6) and trace elements Ba, Ce, Cr, Cs, Dy, Er, Eu, Ga, Gd, Ge, Hf, Ho, La, Lu, Nb, Nd, Pr, Rb, Sm, Sn, Sr, Ta, Tb, Th, Tm, U, V, W, Y, Yb, and Zr were analysed using lithium borate fusion package ME-ICPO6/ME-MS81. Samples were prepared for analysis by taking 0.20 g of each sample and mixed with 0.90 g of a lithium borate flux and fusing at 1000°C. The melt was dissolved in a 100 mL aqueous

solution of 2% hydrochloric acid and 4% nitric acid. Inductively coupled plasma atomic emission spectroscopy (ICP-AES) was used to determine major element oxide concentrations and inductively coupled plasma mass spectrometry (ICP-MS) for trace and rare earth elements (REEs). During both major and trace element analysis reagent blanks, verification standards, and calibration standards were included in the sample sequence. Values for standards SY-4, OREAS 146, and AMISO167 were less than 5% of reference values, often less than 2%. Other trace elements including chalcophile elements (As, Bi, Hg, In, Re, Sb, Se, Te, Tl, Ag, Cd, Co, Cu, Li, Mo, Ni, Pb, Sc, Zn) were analysed by aqua regia digestion with ICP-MS. Total sulphur and carbon concentrations were obtained by taking a 0.01 to 0.1 g portion of each sample and heating to approximately 1350°C in an induction furnace while oxygen was being passed through the sample. A Leco analyser was used to determine the amount of sulphur dioxide and carbon dioxide being released from each sample.

## 3.3 - Mineral separation

Samples were crushed at Lakehead University with a SPEX ShatterBox using a tungsten carbide grinding container. Approximately 1 kg samples were repeatedly sieved and crushed to a grain size passing a 250 micron mesh. Heavy mineral separations were performed at the Centre of Excellence in Ore Deposits (CODES), University of Tasmania, Australia. Heavy minerals were separated using a gold pan and magnetic minerals separated using a Fe-B-Nd magnet. The final concentrated fractions were placed on double-sided sticky tape and epoxy glue was then poured into a 2.5 cm diameter mould on top of the grains. Between two and four  $\sim 3 \times 10$  mm sample concentrations were mounted in

each epoxy puck. The mount was dried for 12 hours and polished using silica carbide sandpaper and a 0.3 micron alumina polishing lap. The sample mounts were then washed in distilled water in an ultrasonic bath.

## 3.4 – Advanced mineral identification and characterization system (AMICS)

All sample mounts were analysed at the Central Science laboratory, University of Tasmania, Australia using their FEI MLA 650 ESEM equipped with Bruker AMICS software package. The AMICS consists of fully automated energy-dispersive X-ray spectroscopy (EDS) that maps grain composition and matches with a database of over 2,000 mineral phases.

## 3.5 - Scanning electron microscopy (SEM) and imaging

Scanning electron microscopy was used for the acquisition of backscatter electron (BSE) and cathodoluminescence (CL) images and was conducted at the Central Science laboratory (CSL), University of Tasmania. All grains analysed in the study were BSE or CL imaged prior to analysis. Scanning electron microscopy work was conducted on polished blocks of mounted heavy mineral separates. A Hitachi SU-70 analytical field emission SEM was used for apatite imaging, equipped with a Gatan ChromaCL2 colour cathodoluminescence imaging system for simultaneous acquisition of SE, iBSE, and colour CL images for apatite grains. The Hitachi SU-70 had a beam current and accelerating voltage of 3 ± 0.3 nA and 20 kV, respectively. A FEI MLA 650 ESEM, equipped with a Gatan PanaCLF panchromatic CL detector was used for zircon CL imaging, and had a beam current and accelerating voltage of 2 ± 0.3 nA and 20 kV, respectively. Rutile and titanite

BSE imaging was acquired simultaneous with microprobe analysis on a JEOL JXA-8530F Plus field emission electron microprobe.

## 3.6 – Electron microprobe analysis (EMPA)

Electron microprobe analysis data for apatite, titanite, and rutile are presented in this study. All compositional analyses were acquired on a JEOL JXA-8530F Plus field emission electron microprobe equipped with 5 wavelength dispersive spectrometers at the Central Science Laboratory, University of Tasmania, Australia. EDS spectra were acquired and processed using a Thermo Pathfinder Pinnacle EDS system equipped with an UltraDry Extreme 30 mm<sup>2</sup> solid state detector.

#### *3.6.1 – Apatite*

Electron microprobe analyses of apatite were carried out with an accelerating voltage of 15 kV, a beam current of 10 nA, and a beam size of 10  $\mu$ m. Apatites were analysed for Si, Al, La, Ce, Nd, Fe, Mn, Mg, Ca, Sr, Na, K, P, S, As, Cl, and F. Durango apatite (McDowell et al., 2005) was analysed and a commercial apatite standard used for Ca and P calibration (Fluor-Apatite P&H Developments, UK).

#### 3.6.2 – Titanite

Electron microprobe analyses of titanite were carried out with an accelerating voltage of 20 kV, a beam current of 200 nA, and a beam size of 5 μm. Titanites were analysed for Si, Ca, Ti, Na, Mg, Al, V, Cr, Mn, Fe, Sr, Y, Zr, Nb, La, Ce, Nd, Sm, Gd, Dy, Er, Yb, and F. Five standards were analysed: Titanite OLT1(Kennedy et al., 2010), Titanite YILT,

synthetic titanite from Memorial University, synthetic rutile from P&H Developments, UK; and Natural Wollastonite CaSiO<sub>3</sub>, University of Tasmania.

#### 3.6.3 - Rutile

Electron microprobe analyses of rutile were carried out with an accelerating voltage of 20 kV, a beam current of 200 nA, and a beam size of 2  $\mu$ m. Rutile were analysed for Al, Si, Ca, V, Cr, Mn, Fe, Cu, Zr, Nb, Mo, Sn, Ta, W, and Ti. Two standards were analysed: synthetic rutile from Geo Block MkII, P&H Developments, UK and Rutile R632 (Axelsson et al., 2018).

## 3.7 – Laser ablation inductively coupled plasma mass spectrometry (LA-ICP-MS)

Zircon, apatite, titanite, and rutile trace element compositions were determined by LA-ICP-MS at the CODES Analytical Laboratories, University of Tasmania, Australia. The analyses were performed with an Applied Spectra/ASI RESOLution S-155 ablation system with ATL ATLEX ArF excimer laser operating at a 193 nm wavelength and a pulse width of 5 ns. The laser system was coupled to an Agilent 7900 quadrupole ICP-MS. Ablation was performed in He atmosphere using carrier gas flow at a rate of 0.35 litres/minute which was mixed with Ar flowing at 1.05 litres/minute and N₂ flowing at 2.5 ml/minute which carried ablated particles to the plasma torch. The analysis time for all minerals and samples was 90s, with the initial 30s to measure gas background with laser turned off and remaining 60s of signal analysis with the laser switched on. Spot sizes used ranged between 20 and 30 μm with laser frequency of 5 Hz. For zircon, apatite and titanite laser beam fluence of 2.1 J/cm² was used, while for rutile 5 J/cm² was used (Jenkins et al., 2023). Isotopes measured for zircon included <sup>31</sup>P, <sup>49</sup>Ti, <sup>56</sup>Fe, <sup>89</sup>Y, <sup>91</sup>Zr, <sup>93</sup>Nb, <sup>139</sup>La, <sup>140</sup>Ce, <sup>141</sup>Pr, <sup>146</sup>Nd, <sup>147</sup>Sm, <sup>153</sup>Eu, <sup>157</sup>Gd, <sup>159</sup>Tb, <sup>163</sup>Dy, <sup>165</sup>Ho, <sup>166</sup>Er, <sup>169</sup>Tm, <sup>172</sup>Yb, <sup>175</sup>Lu, <sup>178</sup>Hf, <sup>181</sup>Ta, <sup>202</sup>Hg, <sup>204</sup>Pb,

 $^{206}$ Pb,  $^{207}$ Pb,  $^{208}$ Pb,  $^{232}$ Th,  $^{235}$ U and  $^{238}$ U with each element being measured every  $\sim 0.25$ seconds. Isotopes measured for apatites included <sup>23</sup>Na, <sup>31</sup>P, <sup>43</sup>Ca, <sup>51</sup>V, <sup>56</sup>Fe, <sup>88</sup>Sr, <sup>139</sup>La, <sup>140</sup>Ce, <sup>141</sup>Pr, <sup>146</sup>Nd, <sup>147</sup>Sm, <sup>153</sup>Eu, <sup>157</sup>Gd, <sup>159</sup>Tb, <sup>163</sup>Dy, <sup>165</sup>Ho, <sup>166</sup>Er, <sup>169</sup>Tm, <sup>172</sup>Yb, <sup>175</sup>Lu, <sup>202</sup>Hg, <sup>204</sup>Pb,  $^{206}$ Pb,  $^{207}$ Pb,  $^{208}$ Pb,  $^{232}$ Th,  $^{235}$ U and  $^{238}$ U with each element being measured every  $\sim 0.22$ seconds. Isotopes measured for titanite included <sup>27</sup>Al, <sup>29</sup>Si, <sup>43</sup>Ca, <sup>49</sup>Ti, <sup>55</sup>Mn, <sup>56</sup>Fe, <sup>89</sup>Y, <sup>90</sup>Zr, 93Nb, 139La, 140Ce, 141Pr, 146Nd, 147Sm, 153Eu, 157Gd, 159Tb, 163Dy, 165Ho, 166Er, 169Tm, 172Yb, <sup>175</sup>Lu, <sup>178</sup>Hf, <sup>181</sup>Ta, <sup>202</sup>Hg, <sup>204</sup>Pb, <sup>206</sup>Pb, <sup>207</sup>Pb, <sup>208</sup>Pb, <sup>232</sup>Th, <sup>235</sup>U and <sup>238</sup>U with each element being measured every ~0.24 seconds. Isotopes measured for rutile included <sup>24</sup>Mg, <sup>27</sup>Al, <sup>29</sup>Si, <sup>43</sup>Ca, <sup>49</sup>Ti, <sup>51</sup>V, <sup>55</sup>Mn, <sup>57</sup>Fe, <sup>89</sup>Y, <sup>90</sup>Zr, <sup>93</sup>Nb, <sup>118</sup>Sn, <sup>140</sup>Ce, <sup>146</sup>Nd, <sup>147</sup>Sm, <sup>153</sup>Eu, <sup>157</sup>Gd, <sup>163</sup>Dy, <sup>166</sup>Er, <sup>172</sup>Yb, <sup>178</sup>Hf, <sup>181</sup>Ta, <sup>182</sup>W, <sup>202</sup>Hg, <sup>204</sup>Pb, <sup>206</sup>Pb, <sup>207</sup>Pb, <sup>208</sup>Pb, <sup>232</sup>Th, <sup>235</sup>U and <sup>238</sup>U with each element being measured every ~0.24 seconds. Longer counting time was used on the U and Pb isotopes compared to the other elements. Trace element abundances are calibrated on the NIST610 glass using values of Jochum et al. 2011, using secondary standard corrections based on the compositions of glasses BCR-2G and GSD-1G (GeoReM preferred values; http://georem.mpch-mainz.gwdg.de/). Quantification was performed using 91Zr (zircon), <sup>43</sup>Ca (apatite and titanite) and <sup>49</sup>Ti (rutile) as the internal standard elements, normalizing all measured cations to stoichiometric proportions. The standards were run at the beginning and end of each LA-ICP-MS session as well as hourly intervals during analysis. Up to approximately 30 spots were analysed in each sample (dependent on number of grains within each sample), with one laser spot per grain. The laser data was processed using the LADR software package (Norris Scientific). Data reduction was done by visually inspecting each analysis spectrum and screening out large variations or inclusions in the trace element chemistry to be not included in data integration.

#### 3.8 – Rutile laser ablation inductively coupled plasma mass spectrometry imaging

Rutile imaging was carried out using the same instrument setup as was used for spot analyses. Whole area of the grain was covered by a raster of parallel lines. Due to relatively small grain size 4 µm square laser beam was used with 4 µm/sec rastering speed along the lines. Because of small spot size the list of measured masses had to be shortened. For imaging method following masses were measured: 24Mg, 27Al, 29Si, 43Ca, 49Ti, 51V, 53Cr, 55Mn, 57Fe, 89Y, 90Zr, 93Nb, 118Sn, 178Hf, 181Ta, 182W and 238U. Total sweep time was equal to 0.24 second. Ablation was carried out using laser frequency of 10 Hz and laser beam energy density of approximately 5 J/cm2. NIST610 was used as a primary standard, while GSD-1G and BCR-2G were used as secondary standards all analysed with 30 µm spot size and laser beam energy density of 3.5 J/cm2. Straight nylon tubing 3 m long was used as an interface between laser ablation system and ICPMS. LADR software was used to determine cps/ppm conversion factors with final processing done with in-house developed python script.

## 3.9 – Uranium-lead geochronology

Uranium-Pb ages for zircon, apatite, titanite, and rutile samples were determined by LA-ICP-MS at the CODES Analytical Laboratories, University of Tasmania. Uranium and Pb isotopes were collected at the same time as the trace element geochemistry described in section 3.7.

The downhole fractionation, instrument drift and mass bias correction factors for Pb/U ratios were calculated using analyses of the 91500 zircon (Wiendenbeck et al, 1995) for zircon, OD306 apatite (Thompson et al, 2016) for apatite, 19686 titanite (in-house,

unpublished) for titanite and TB-1 rutile (Jenkins et al., 2023) for rutile. The instrument drift and mass bias correction factors for the <sup>207</sup>Pb/<sup>206</sup>Pb ratio and <sup>207</sup>Pb/<sup>206</sup>Pb-based ages were calculated using analyses of the NIST610 glass, using the Pb isotopic values of Baker et al. (2004). For each analysis, a subset of the data most closely matching a concordant composition have been selected for quantification.

Concordia diagrams of <sup>207</sup>Pb/<sup>206</sup>Pb vs. <sup>238</sup>U/<sup>206</sup>Pb, regression intercepts and weighted averages were calculated with Isoplot (Ludwig, 2003). Ages presented in this study are weighted mean average of <sup>206</sup>Pb/<sup>238</sup>U. Full geochronology data are presented in Appendix B. Plesovice (Slama et al. 2008) and Temora (Black et al, 2003) zircon standards were used as check standards for zircon analyses; 401 apatite (Thompson et al, 2016), Durango (McDowell et al, 2005), and McClure (Schoene and Bowring, 2006) apatites were used for apatite analyses; 100606 (Best, 2012), FC-3 (Schmitz and Bowring, 2001), Mt Dromedary (Schoene et al, 2006) titanites were used for titanite analyses; R10 and R19 rutiles (Luvizotto et al, 2009) were used for rutile analyses. Check standards were analysed throughout the analytical session and treated as unknowns. Age standards, reference ages, and reproduced standard ages are provided in Appendix G.

### 3.10 – Hafnium isotopes

Hafnium isotopic ratios of zircon were measured by LA-MC-ICP-MS at the Pacific Centre for Isotopic and Geochemical Research, Vancouver, Canada. An NWR193UC laser ablation system was coupled to a Nu Plasma MC-ICP-MS for data collection. The Nu Plasma instrument allows for simultaneous collection of Lu, Yb, and Hf masses (171, 173, 175, 176, 177, 178, 179, and 180) allowing for Lu and Yb interference corrections on mass 176 and

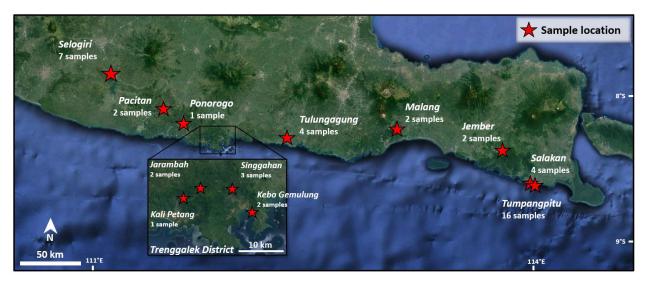
mass-bias exponential corrections. Ablation spots ranged from 25 to 50  $\mu$ m in diameter. Standards used for analyses include 91500 (Wiendenbeck et al., 1995), FC-1 (Coyner et al., 2004), Plesovice (Slama et al., 2008), and Temora (Black et al., 2003). The laser data was processed using Iolite. Data reduction was done by visually inspecting each analysis spectrum and screening out large variations or inclusions in the trace element chemistry which were not included in data integration.

#### **Chapter 4: Sample and site descriptions**

This chapter aims to characterize samples within each prospect and deposit included in this study. The descriptions are based on field observations and hand samples, as well as comparison with local geology maps, where available. Detail at each site varies greatly due to variations in the amount of previous work done. This chapter lists each of the 29 study sites from West to East, through Java, Lombok, and Sumbawa. Detailed sample locations and information are listed in Appendix A.

#### 4.1 - Java

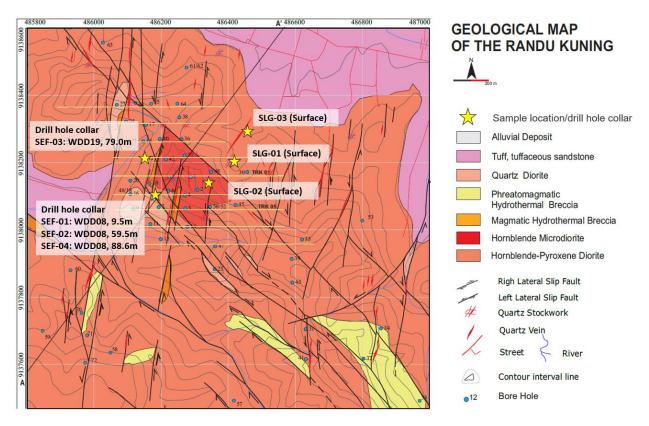
Thirteen different prospects and deposits were studied from Java (Fig. 4.1). These include Selogiri (Randu Kuning), Pacitan (Kasihan and Gemaharjo), Ponorogo (Gandusari), Trenggalek (Jerambah, Singgahan, Kebo Gemulung, and Kali Petang), Tulungagung (Sinawang), Malang, Jember, and Tujuh Bukit (Tumpangpitu porphyry deposit and Salakan prospect).



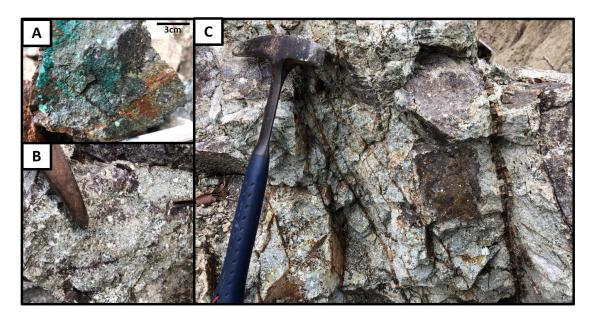
**Figure 4.1:** Map of sample locations within Java. Satellite image obtained from Google Earth (Image © TerraMetrics, 2023).

#### 4.1.1 – Selogiri

Seven samples were collected from the Randu Kuning porphyry prospect at Selogiri, Java, including three from surface (SLG-01 to SLG-03) and four from drillcore (SEF-01 to SEF-04; Fig. 4.2). Sampled lithologies consist of diorite, quartz diorite, and hornblende diorite. Surface sample alteration is variable, with propylitic alteration in the outermost SLG-03 sample and advanced-argillic/intermediate-argillic illite-smectite-kaolinite ± pyrophyllite-alunite assemblages in SLG-01 and SLG-02 (Fig. 4.3). Drill hole samples (SEF-01 to SEF-04) are all diorite (± hornblende) with weak intermediate argillic alteration. Sample information and brief descriptions are in Table 4.1 and sample photographs in Figure 4.4.



**Figure 4.2:** Geologic map of the Randu Kuning area (Selogiri). Stars indicate sample locations/drill hole collars. Coordinates are UTM zone 49S. Modified after Sutarto et al. (2015).



**Figure 4.3:** (a) Sample SLG-02 outcrop with malachite on weathered surfaces. (b-c) Strong intermediate argillic altered hornblende diorite porphyry at SLG-02, with oxidized quartz stockwork veining. Photos courtesy of Adi Maryono.



**Figure 4.4:** Photographs of Selogiri (Randu Kuning porphyry) samples. White scale bar is 1 cm.

**Table 4.1:** Descriptions for samples at Selogiri, Java (Randu Kuning porphyry).

Sample	Sample Type	Drillcore ID	Rock Type	Alteration	Timing	Brief Description
SLG-01	Surface		Quartz diorite porphyry	Advanced argillic	Syn-	Porphyritic, relict plag up to 3-4mm, st alt to ilt-sme/prl, tr dck. Fg qtz dominated gm (<0.02mm), minor patchy chl, cb. Partially oxidized, lm/hem veinlets throughout.
SLG-02	Surface		Hornblende diorite porphyry	Intermediate argillic	Syn-	Porphyritic, plag phenos range in size (~0.5-5mm), lesser hbl phenos often with diffuse grain boundaries. Plag alt to ilt-sme, minor dck. Patchy ilt-sme alt within fg qtz-plag gm (~0.05mm). Oxidized, qtz-lm stockworks, mlc on weathered surfaces.
SLG-03	Surface		Diorite	Propylitic	Post-	Sub-porphyritic, mostly interlocking plag laths (variable, <0.5-4mm). Relict mafic phenos up to ~3-5mm, completely alt to chlmag-cb-clays, minor ep.
SEF-01	Drill core	WDD08 - 9.5m	Hornblende diorite porphyry	Intermediate argillic	Syn-	Porphyritic, variable sized phenos, plag (0.5-4mm), hbl (0.5-10mm) set within aphanitic vfg qtz-plag gm. Hbl strongly poikilitic, with lathy plag phenos as inclusions. Patch chl-cb alt throughout, minor ilt, diss mag.
SEF-02	Drill core	WDD08 - 59.5m	Hornblende diorite	Intermediate argillic	Syn-	Sub-porphyritic, ~65% interlocking variable sized plag (~0.5-2mm) with similar hbl, minor fg interstitial qtz-plag. Minor patchy cb-clay alt in interstitial fraction. Minor chl, opx, diss mag.
SEF-03	Drill core	WDD19 - 79m	Diorite	Intermediate argillic	Syn-	Sub-porphyritic, ~0.5-2mm plag grains alt to ilt, diffuse boundaries within qtz dominated vfg gm. Patchy cb/ilt-sme alt throughout. Diss mag.
SEF-04	Drill core	WDD08 - 88.6m	Diorite	Intermediate argillic	Syn-	Equigranular, ~0.05mm, patchy plag-qtz. cb-chl throughout, lesser clays - ilt-sme. Diss mag.

# 4.1.2 – Pacitan and Ponorogo

Three samples were collected from near the villages of Kasihan (PCT-01), Gemaharjo (PCT-02), and Gandusari (PNG-01), within a region approximately 30 km northeast of the city of Pacitan (Table 4.2; Fig. 4.5).

**Table 4.2:** Descriptions for samples in the Kasihan (PCT-01), Gemaharjo (PCT-02) and Gandusari (PNG-01) regions, Java.

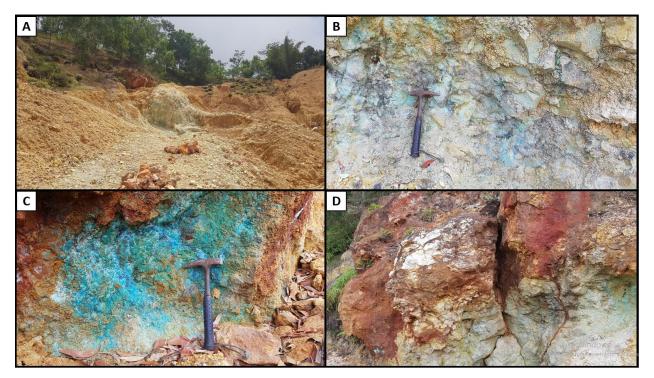
Sample	Sample Type	Rock Type	Alteration	Timing	Brief Description
PCT-01	Surface	Dacitic tuff	Advanced argillic		Volcaniclastic, variable-sized (~0.25-5mm) rounded clasts of alt diorite, angular qtz and plag fragments, vfg aphanitic groundmass, with ilt-sme/kln alt
PCT-02	Surface	Andesite porphyry	Advanced argillic		Porphyritic, 2-5mm euh plag phenos, w/ mod ilt/destructive clay AA alt. Interlocking bladed fg plag groundmass, minor qtz. Weak-mod ilt alteration throughout.
PNG-01	Surface	Breccia	Intermediate argillic		Monomictic mosaic breccia with interstitial qtz. Angular fragments vary greatly in size, completely altered to chl/ilt-sme and other clays, destroyed primary textures. 1% py, weakly oxidized.



**Figure 4.5:** Photographs of Kasihan (PCT-01), Gemaharjo (PCT-02) and Gandusari (PNG-01) samples. White scale bar is 1 cm.

#### Kasihan – PCT-01

Sample PCT-01 was collected from a strongly weathered and oxidized pit near the village of Kasihan, Pacitan Regency, Java (Fig. 4.4). The outcrop consists of an advanced argillic altered dacite tuff with supergene chalcocite, malachite, and azurite.



**Figure 4.6:** (a) Dacite outcrop of sample PCT-01. (b) Strongly fractured dacite with chalcocite and malachite. (c) Malachite, azurite, and iron oxide supergene mineralization. (d) Advanced argillic altered dacite with hematite and goethite. Photos courtesy of Adi Maryono.

## Gemaharjo – PCT-02

Sample PCT-02 is an advanced argillic altered andesite porphyry and was collected from a road-side outcrop near the village of Gemaharjo, Pacitan Regency, Java, approximately 9km to the northeast of PCT-01 (Fig. 4.7). Hosted within the andesite outcrop and immediate area surrounding it are numerous ~10-30cm banded/cockade-breccia low-sulphidation epithermal veins (Wiloso and Yudha, 2018).

#### Gandusari – PNG-01

Sample PNG-01 is an intermediate argillic altered monomictic mosaic quartz breccia hosted in altered volcanic rocks, collected from a roadside outcrop near the village of

Gandusari, Ponorogo Regency, Java, approximately 14 km southeast of PCT-01 and PCT-02 (Fig. 4.8).



**Figure 4.7:** Roadside outcrop of andesite porphyry and artisanal workings at Gemaharjo site (PCT-02) along National Route 3, Java. Photo courtesy of Adi Maryono.



**Figure 4.8:** Quartz breccia in volcanic rocks, strongly silicified with sulfides and iron oxide (PNG-01). Photo courtesy of Adi Maryono.

## 4.1.3 - Trenggalek district

Seven samples were collected from the Trenggalek region of eastern Java (Fig. 4.9). The area hosts a number of porphyry, skarn, intermediate- and high-sulfidation epithermal prospects, with samples in this project from the Jerambah, Singgahan, Kebo Gemulung, and Kali Petang porphyry prospects. All four prospects consist of discrete altered diorite – quartz diorite – tonalite multiphase intrusions hosted within an assemblage of volcanic and volcaniclastic rocks (Mandalika Formation; PT Sumber Mineral Nusantara, 2019). Sample information, brief descriptions and sample photos are listed in Table 4.3 and Figure 4.10.

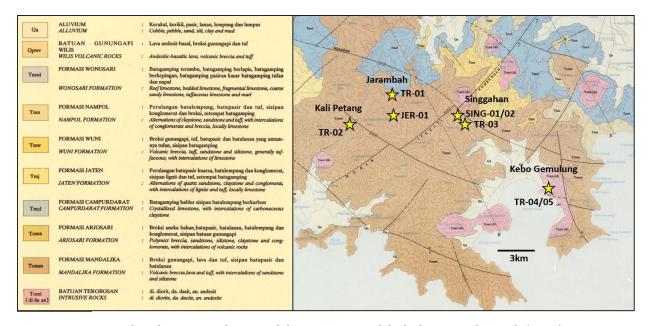


Figure 4.9: Regional geologic map of Trenggalek area, Java. Modified after Samodra et al. (1992).

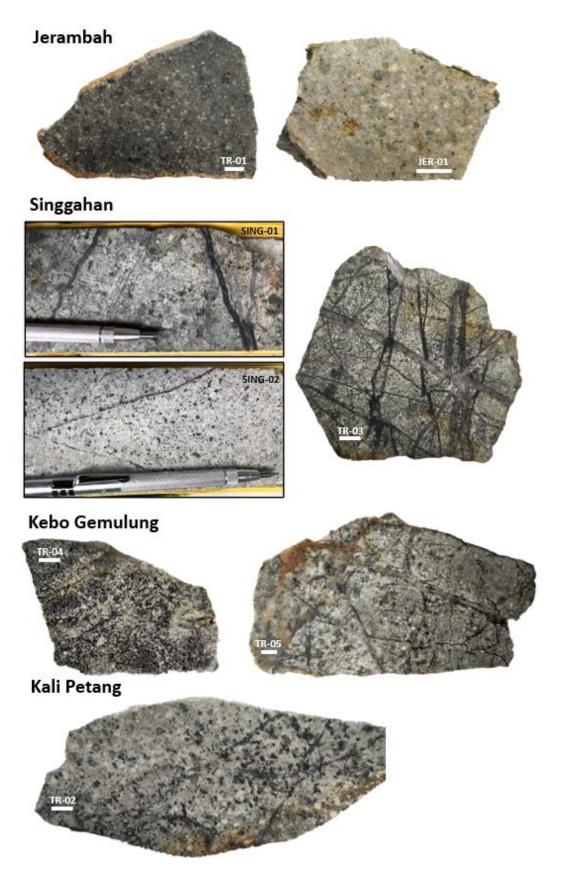
#### *Jerambah*

Two samples were collected at the Jerambah prospect, Trenggalek, Java (TR-01, JER-01). Jerambah is a porphyry/high-sulfidation epithermal prospect, characterized by a 2 x 1.5 km quartz-pyrophyllite-dickite-pyrite lithocap overlying a multiphase quartz diorite

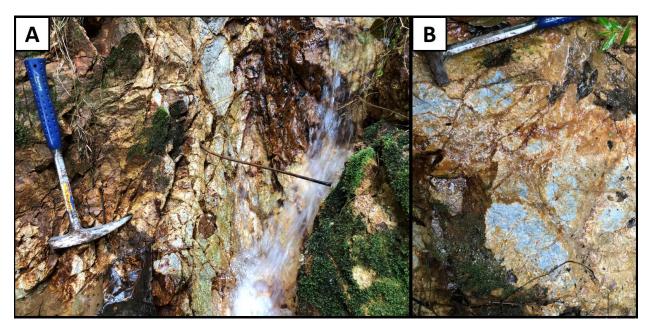
intrusion (PT Sumber Mineral Nusantara, 2019). Sample TR-01 is a sericite-chlorite altered porphyritic quartz diorite that pre-dates mineralization, collected from a river outcrop 1,500m north of JER-01 (Fig. 4.11). Sample JER-01 is a propylitic altered porphyritic quartz diorite collected from hole TRDD-054.

**Table 4.3:** Descriptions of samples from prospects within the Trenggalek district, Java. \* denotes unknown drill hole depth.

Sample	Sample Type	Drillcore ID	Rock Type	Alteration	Timing	Brief Description
Jeramba	h					
TR-01	Surface		Quartz diorite porphyry	Sericite- chlorite	Pre-	Porphyritic, 2-8mm plag phenos, OPX (0.5-4mm), chl after bt, minor qtz phenos. FG qtz-plag gm, wk alt to ilt. Minor chl, act, ep. diss mag, 1-2% diss py, tr. ccp.
JER-01	Drill core	TRDD- 054*	Quartz diorite porphyry	Propylitic	Syn-	Porphyritic, 1-5mm plag laths, all alt to ilt-ep-czo, minor other clays, qtz phenos up to 5mm, chl after bt. VFG gm, qtz-plag, st alt to ilt-sme. diss py-mag.
Singgah	an					
SING- 01	Drill core	TRDD- 057*	Tonalite porphyry	Sericite- chlorite	Pre-	Porphyritic, 2-3mm plg phenos, st alt to cb-ilt. Mafic phenos replaced to mag-cb-chl. FG plag-dominated gm, altered to clays. diss 2-3% py-ccp.
SING- 02	Drill core	TRDD- 057, 351.5m	Tonalite porphyry	Sericite- chlorite	Syn-	Porphyritic, 1-2mm blebby qtz phenos, plag lath phenos, most mod alt to ilt, patchy cb. FG gm dominantly plag with mod clay alt. diss 2-3% py-ccp.
TR-03	Surface		Diorite	Sericite- chlorite	Syn-	Equigranular ~0.5mm plag with mod patchy clay-cb alt. Interstitial minor fg qtz-plag, alt to clays. Patchy chl, diss and veinlet mag. 2% diss py-ccp.
Kebo Ge	mulung					
TR-04	Surface		Diorite	Sericite- chlorite	Pre-	Sub-porphyritic, up to 3mm plag, alt to patchy ilt. Mafic grains completely replaced by chl and rimmed mag. Gm altered to clays, diss mag, chl. <1% diss py.
TR-05	Surface		Quartz diorite porphyry	Sericite- chlorite	Syn-	Porphyritic, plag phenos up to 3mm, completely altered to ilt-sme, lesser ~2-3mm qtz phenos. FG qtz dominated gm with finely diss mag/chl. Mafic phenos replaced by mag-chl-cb. Weakly oxidized, mlc-az staining on surface. 2% ccp-bn-py, diss and veinlets.
Kali Peta	ng					
TR-02	Surface		Quartz diorite porphyry	Sericite- chlorite	Syn-	Porphyritic, 2-5mm blebby qtz phenos, 1-2mm plag phenos mod alt to ilt. FG qtz-plag gm, alt to clays and patchy cb. Cb-chl-mag alt of mafic phenos. Tr. ep, mag veinlets, <1% diss py, tr ccp



**Figure 4.10:** Photographs of samples from the Trenggalek district, Java. White scale bar is 1 cm.



**Figure 4.11:** (a-b) Outcrop of quartz diorite porphyry (Sample TR-01) at Jerambah prospect, Trenggalek, Java. Photos courtesy of Adi Maryono.

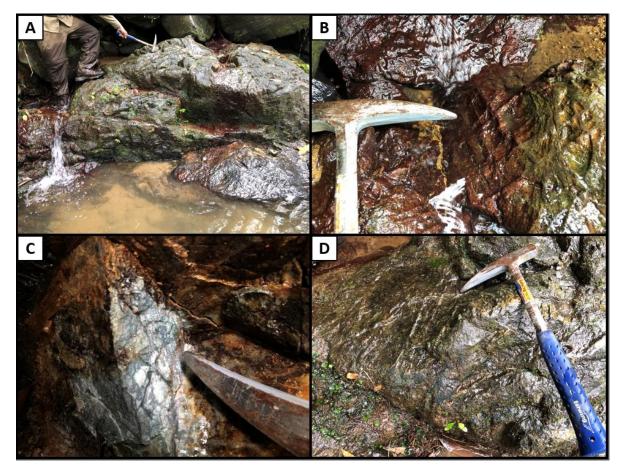
## Singgahan

Three samples were collected at the Singgahan prospect, Trenggalek, Java (SING-01, SING-02, TR-03). Singgahan consists of a 1 x 0.5 km elevated Au-Mo-Cu soil anomaly overlying an altered composite diorite/tonalite intrusion (PT Sumber Mineral Nusantara, 2019). Two sericite-chlorite altered tonalite porphyry samples are from drill hole TRDD-057 (SING-01, SING-02), and one sericite-chlorite altered diorite (TR-03) sample is from a river outcrop approximately 400 m southeast of the TRDD-057 collar (Fig. 4.12).

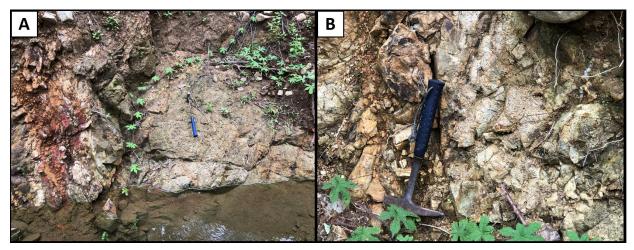
# Kebo Gemulung

Two samples were collected at the Kebo Gemulung prospect, Trenggalek, Java (TR-04, TR-05). Sample TR-04 is a sericite-chlorite altered diorite that pre-dates mineralization (Fig. 4.13). Sample TR-05 is a mineralized quartz diorite porphyry, collected ~100 m east

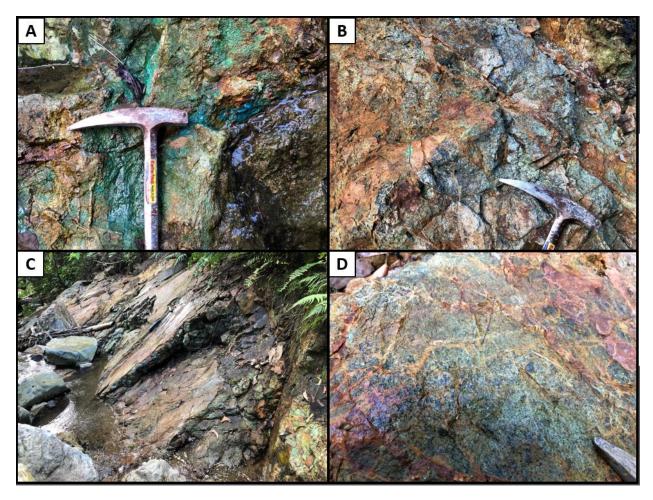
of TR-04 along the Kebo Gemulung river (Fig. 4.14). The outcrop has malachite-azurite on weathered surfaces and intense porphyry stockwork veining.



**Figure 4.12:** (a-b) Outcrop of diorite with stockwork veining at Singgahan prospect (sample TR-03). (c) A and B veining in mineralized diorite. (d) Weathered diorite outcrop. Photos courtesy of Adi Maryono.



**Figure 4.13:** (a-b) Sample TR-04 weathered diorite intrusion outcrop, Kebo Gemulung, Trenggalek, Java. Photos courtesy of Adi Maryono.



**Figure 4.14:** Sample TR-05 quartz diorite porphyry outcrop at Kebo Gemulung, Trenggalek, Java. (a) malachite-azurite mineralization. (b and d) Strong ser-chl-mag alteration with weathered sulfides and stockwork veining. (c) Outcrop in Kebo Gemulung river. Photos courtesy of Adi Maryono.

# Kali Petang

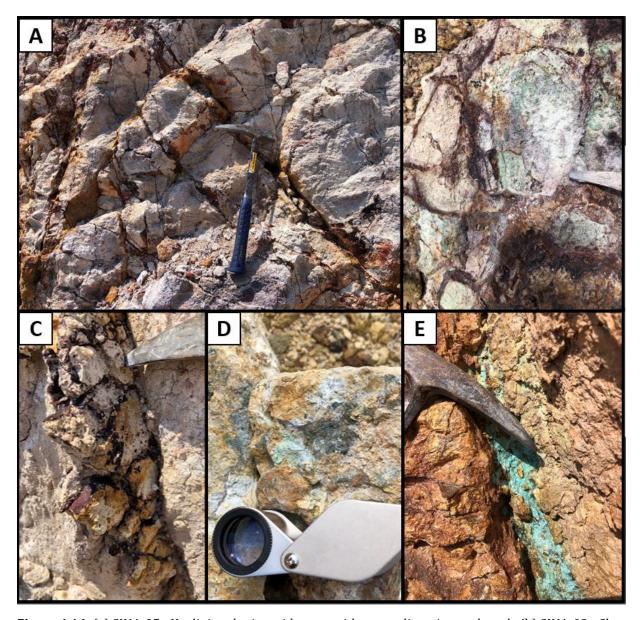
One sample was collected at the Kali Petang prospect, Trenggalek, Java along the Kali Petang river approximately 3.5 km southwest of Jerambah. Sample TR-02 is a sericite-chlorite altered quartz-diorite porphyry. Sample information, brief descriptions and sample photos are listed in Table 4.3 and Figure 4.15.



Figure 4.15: Outcrop of quartz diorite porphyry (TR-02) at Kali Petang. Photo courtesy of Adi Maryono.

# 4.1.4 Tulungagung

Four samples were collected from the Sinawang prospect, Tulungagung, Java (SINA-01, SINA-02, SINA-04, SINA-05). Four quartz diorite porphyry samples were collected from various pits throughout the mine site, reflecting subtle changes in alteration mineralogy within alunite-kaolinite ± pyrophyllite ± illite-smectite assemblages. Samples and outcrops display intense porphyry stockwork veining, often completely oxidized to limonite-hematite-goethite after pyrite-enargite (Fig. 4.16). Sample information and brief descriptions are in Table 4.4 and sample photographs in Figure 4.17.



 $\textbf{Figure 4.16:} \ (a) \ SINA-05 - Kaolinite-alunite oxide zone with quartz-limonite stockwork. \ (b) \ SINA-02 - Close-up of hematite-dominant oxide zone with malachite. \ (c) \ SINA-01 - Hematite-goethite veinlets after pyrite-enargite. \ (d) \ SINA-04 - Close-up of malachite and trace supergene chalcocite. \ (e) \ Fracture-fill malachite.$ 

**Table 4.4:** Descriptions of samples from the Sinawang prospect, Tulungagung, Java.

Sample	Sample Type	Rock Type	Alteration	Timing	Brief Description
SINA-01	Surface	Quartz diorite porphyry	Advanced argillic	Syn-	Porphyritic, 2-5mm qtz phenos, relict 1-3mm plag phenos, altered to mg bladed alu. Pervasive clays throughout fg groundmass, kln.
SINA-02	Surface	Quartz diorite porphyry	Advanced argillic	Syn-	Porphyritic, 2-4mm qtz phenos, relict 1-3mm plag phenos altered to fg bladed alu. Pervasive clays throughout vfg groundmass. Oxidized, Im veinlets throughout.
SINA-04	Surface	Quartz diorite porphyry	Advanced argillic	Syn-	Porphyritic, 1-8mm plag phenos, alt to kln-alu-prl and py. Blebby qtz phenos up to 5mm, resorption rims common. Groundmass vfg kln-prl with minor qtz. Fg-mg py diss throughout, often clustered.
SINA-05	Surface	Quartz diorite porphyry	Advanced argillic	Syn-	Porphyritic, 2-4mm plag phenos, altered to kln-alu-prl. Blebby qtz phenos up to 4mm. Gm dominantly alu with lesser clays, minor chl.
SINA	A-01				SINA-02
			SINA-04		SINA-05

**Figure 4.17:** Photographs of quartz diorite porphyry samples from the Sinawang prospect, Tulungagung, Java. White scale bar is 1 cm.

# 4.1.5 – Malang

One sample was collected from Malang, Java (MLG-01). Sample MLG-01 is a weakly propylitic altered andesite porphyry from the Arjowinangun River (Fig. 4.18). Sample information and brief description is in Table 4.4 and sample photograph in Figure 4.19.



**Figure 4.18:** Andesite outcrop in Arjowinangun River, Java. Photo courtesy of Adi Maryono.

**Table 4.5:** Description of sample MLG-01 from Malang, Java.

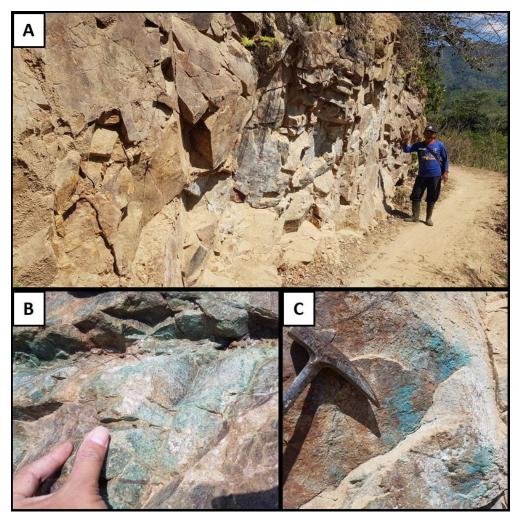
Sample	Sample Type	Rock Type	Alteration	Timing	Brief Description
MLG-01	Surface	Andesite porphyry	Propylitic		Porphyritic, irregular clumpy subhedral plag phenos up to ~5mm, lesser cpx/opx phenos, some alt to srp-chl-mag. Interlocking lathy fg plag gm, diss mag. Minor ilt alt and patchy cb. Minor fg ep.



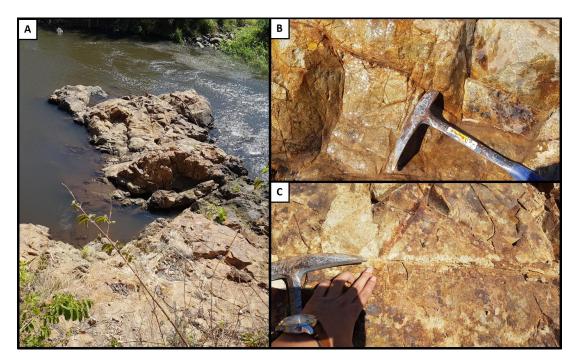
Figure 4.19: Photograph of andesite porphyry (MLG-01) from Malang, Java. White scale bar is 1 cm.

## 4.1.6 - Jember

Two samples were collected from the Jember prospect, Java (JEM-01, JEM-02). Sample JEM-01 is a fine-grained sericite-chlorite altered tonalite from a cliff outcrop and has malachite staining on weathered surfaces and intense porphyry stockwork veining (Fig. 4.20). Sample JEM-02 is a potassic altered quartz diorite porphyry with a significant amount of secondary shreddy biotite. It was collected from an outcrop along the Mandilis River, approximately 10 m from JEM-01 (Fig. 4.21). Sample information and brief descriptions for Jember are in Table 4.6 and sample photographs in Figure 4.22.



**Figure 4.20:** (a) Outcrop of tonalite (JEM-01) near the Mandilis River. (b-c) Close-up of tonalite with quartz stockwork and malachite staining. Photos courtesy of Adi Maryono.



**Figure 4.21:** (a) outcrop of quartz diorite porphyry in the Mandilis River (JEM-02). (b) Quartz stockwork in JEM-02. (c) Goethite and jarosite veinlets. Photos courtesy of Adi Maryono.

**Table 4.6:** Description of samples from Jember prospect, Java.

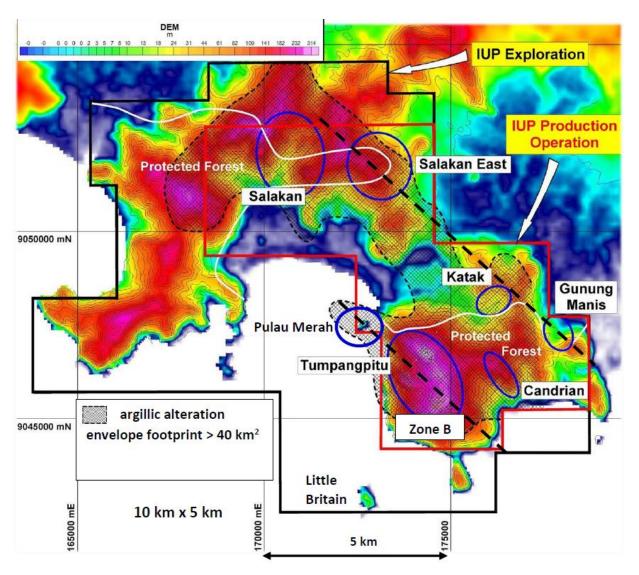
Sample	Sample Type	Rock Type	Alteration	Timing	Brief Description
JEM-01	Surface	Tonalite	Sericite- chlorite	Syn-	Equigranular, interlocking plag laths with very minor qtz. Ilt alt throughout, patchy cb. Patchy/diss chl, mag, tr. alu.
JEM-02	Surface	Quartz diorite porphyry	Potassic	Syn-	Porphyritic, ~2-10mm plag phenos, relatively unaltered with strong variations in size. Gm fg qtz-plag, alt to ilt-chl. Shreddy secondary bt (>10%), often in patches. diss mag. Weakly oxidized, minor mlc-az on weathered surfaces.



**Figure 4.22:** Photographs of samples from Jember prospect, Java. White scale bar is 1 cm.

## 4.1.7 Tujuh Bukit

Twenty samples were collected from the Tujuh Bukit region, Java. Sixteen are from eight drill holes withing the Tumpangpitu porphyry deposit: five pre-mineralization, six syn-mineralization, and five post-mineralization. Four samples are from one drill hole within the Salakan porphyry prospect, approximately 8.5 km to the northwest of Tumpangpitu (Fig. 4.23).



**Figure 4.23:** Digital elevation image (DEM) showing Cu-Au porphyries along NW-trending structural corridors (dashed lines) within the Tujuh Bukit district. Tumpangpitu and Salakan are included in this project. From Harrison (2017); modified after Intrepid Mines Ltd. (2010).

At Tumpangpitu, pre-mineralization samples consist of argillic altered diorite from the precursor diorite batholith within the Tujuh Bukit district. Samples are altered to kaolinite-dickite ± pyrophyllite ± alunite ± illite-smectite assemblages (Harrison, 2017). Termed 'old diorite', this unit is the earliest recognized large intrusive phase and is crosscut by later intrusions (Harrison, 2017). Sample information and brief descriptions for premineralization diorite samples are in Table 4.7 and sample photographs in Figure 4.24.

Syn-mineralization samples consist of fine-grained tonalites with texture destructive advanced argillic alteration. Samples are altered to often patchy kaolinite-dickite ± alunite ± pyrophyllite and quartz assemblages. These units are the main host rock to high-sulfidation epithermal (HSE) mineralization, which has overprinted porphyry mineralization (Harrison, 2017). Sample information and brief descriptions for syn-mineralization tonalite samples are in Table 4.8 and sample photographs in Figure 4.25.

'Post'-mineralization (pre-HSE mineralization, late-inter-porphyry mineralization) consist of a dacite intrusion that forms an ovoid body that overlies the porphyry centre (Harrison, 2017). Samples are advanced argillic altered but are texturally well-preserved and often exhibit a crystal-crowded coarse-grained (~2 – 8 mm) porphyritic texture with quartz eye phenocrysts. Sample information and brief descriptions for post-mineralization quartz diorite samples are in Table 4.9 and sample photographs in Figure 4.26.

Salakan samples consist of advanced argillic, oxidized, and texturally destroyed tonalites. The tonalites are similar to textural observations at Tumpangpitu; however, contain lower grades of porphyry and HSE mineralization (Harrison, 2017). The tonalites contain intense porphyry stockwork veining, but the veins are devoid of copper sulfides

(Harrison, 2017). Samples have variable clay alteration, kaolinite-dickite, as well as intense oxidation with goethite and hematite. Sample information and brief descriptions for tonalite samples at Salakan are in Table 4.10 and sample photographs in Figure 4.27.

Table 4.7: Descriptions of pre-mineralization samples from Tumpangpitu, Java.

Sample	Sample Type	Drillcore ID	Rock Type	Alteration	Timing	Brief Description
UG012183	Drill core	UHGZ- 20-010, 320m	Diorite porphyry	Advanced argillic	Pre-	Porphyritic, qtz phenos (~0.5mm) and relict subhedral plag (~0.5-2mm) completely altered to ilt-sme/prl. Minor alu. Fg qtz dominated gm (<0.1mm). Vuggy.
UG012191	Drill core	UHGZ- 20-018, 520m	Diorite porphyry	Advanced argillic	Pre-	Porphyritic, minor ~0.5mm qtz phenos and replaced plag phenos (~0.5-2mm). Diffuse alt patches throughout sample, mainly kln-dck with prl and minor ilt. Tr. dsp throughout gm. Gm fg <0.05mm qtz dominated.
UG012192	Drill core	UHGZ- 19-001, 656m	Diorite porphyry	Advanced argillic	Pre-	Porphyritic, minor ~0.5mm qtz phenos and replaced plag phenos (~0.5-2mm). Diffuse alt patches throughout sample, mainly kln-dck with prl and minor ilt. ~5% dsp throughout gm. Gm fg <0.05mm qtz dominated, minor alu.
UG012194	Drill core	UHGZ- 19-005, 286m	Diorite	Intermediate argillic	Pre-	Sub-porphyritic, minor ~0.5mm qtz phenos. Relict plag phenos replaced by ilt. diss fg dsp throughout qtz dominated fg (<0.05mm) gm. Minor alu patches, minor clay throughout gm. Resorption rims on qtz, minor brt, chl.
UG012198	Drill core	UHGZ- 20-016, 634m	Diorite porphyry	Advanced argillic	Pre-	Porphyritic, ~0.5-1mm qtz phenos. Gm fg qtz dominated with patchy ilt-sme and minor prl and klndck.
UG012:	185			UG012	194	
UG01219		y Control		UG01	2192	

**Figure 4.24:** Photographs of pre-mineralization samples from Tumpangpitu. White scale bar is 1 cm.

**Table 4.8:** Descriptions of syn-mineralization samples from Tumpangpitu, Java.

Sample	Sample Type	Drillcore ID	Rock Type	Alteration	Timing	Brief Description
UG012185	Drill core	UGTH- 19-013, 206m	Tonalite	Advanced argillic	Syn-	Sub-porphyritic, varying clay clusters - mostly diffuse kln-dck patches interstitial to fg <0.05mm qtz dominated gm.
UG012188	Drill core	UHGZ- 19-006, 566m	Tonalite	Advanced argillic	Syn-	Sub-porphyritic, ilt-sme patches throughout qtz dominated gm with diss dsp (~4%). Lesser kln, prl.
UG012189	Drill core	UHGZ- 20-018, 124m	Tonalite	Advanced argillic	Syn-	Gusano texture, kln-dck-alu patches within splotchy qtz blebs throughout sample. Minor dsp.
UG012190	Drill core	UHGZ- 20-018, 322m	Tonalite	Advanced argillic	Syn-	Sub-porphyritic, qtz phenos up to 2mm, often with resorption rims and fractured/dissected. AA destructive alt, diffuse gm consisting of fg qtz and patches of alu, kln, prl.
UG012196	Drill core	UHGZ- 19-002A, 710m	Tonalite porphyry	Advanced argillic	Syn-	Porphyritic, 1-2mm qtz phenos, AA destructive alt with patches of prl and alu, lesser kln-dck. alu also in fractures. Minor brt.
UG012197	Drill core	UHGZ- 20-016, 424m	Tonalite	Intermediate argillic	Syn-	Sub-porphyritic. Relict plag destroyed with diffuse boundaries, replaced by ilt. Minor qtz phenos, composed of clusters of anhedral qtz. Interlocking veinlets of mag throughout. Minor kln and prl in relict plag and gm, tr alu.
UG01218					UG012190	
UG012188				U	G012196	
UGO	12189				UG012197	

 $\textbf{Figure 4.25:} \ Photographs \ of \ syn-mineralization \ samples \ from \ Tumpang pitu. \ White \ scale \ bar \ is \ 1 \ cm.$ 

**Table 4.9:** Descriptions of post-mineralization samples from Tumpangpitu, Java.

Sample	Sample Type	Drillcore ID	Rock Type	Alteration	Timing	Brief Description
UG012184	Drill core	UGTH-19- 013, 88m	Dacite porphyry	Advanced argillic	Post-	Porphyritic, fg qtz gm (<0.2mm). Plag phenos up to ~2mm, completely replaced by ilt-sme, alu needles, kln, and prl. Lesser smaller qtz phenos.
UG012186	Drill core	UGTH-19- 013, 702m	Dacite porphyry	Advanced argillic	Post-	Porphyritic, minor 1-2mm qtz phenos, relict plag ~0.5-2mm, all altered to kln, alu, prl, ilt.
UG012187	Drill core	UHGZ-19- 006, 58m	Dacite porphyry	Advanced argillic	Post-	Porphyritic, plag phenos 1-4mm, completely replaced by mg alu blades, lesser kln-dck. Fg qtz gm (<0.02mm), minor anhedral ~1mm qtz phenos. Minor ilt-sme, prl.
UG012193	Drill core	UHGZ-19- 005, 20m	Dacite porphyry	Advanced argillic	Post-	Porphyritic, 2-4mm plag phenos completely replaced to prl, ilt-sme, kln. Vfg qtz gm (<0.01mm). Minor ~1mm qtz phenos. diss mag.
UG012195	Drill core	UHGZ-19- 002A, 210m	Dacite porphyry	Advanced argillic	Post-	Porphyritic, ~0.5-4mm plag phenos, completely replaced by cg alu blades and dsp laths. Minor blebby <1mm qtz phenos. Fg qtz gm (<0.05mm), minor kln-dck, prl throughout. Tr chl.
UG012184				UG	UG012187 012195	UG012193
<b>3</b> ,.					1	

**Figure 4.26:** Photographs of post-mineralization dacite porphyry samples from Tumpangpitu. White scale bar is 1 cm.

**Table 4.10:** Descriptions of samples from the Salakan prospect, Tujuh Bukit, Java.

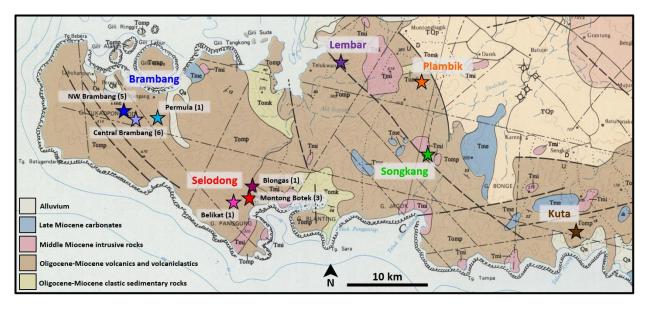
Sample	Sample Type	Drillcore ID	Rock Type	Alteration	Timing	Brief Description
UG012199	Drill core	SND-12-001, 112m	Tonalite porphyry	Advanced argillic	Syn-	Porphyritic, minor ~2-5mm qtz phenos with equigranular ~0.25mm interlocking qtz gm with lesser plag, replaced by iltsme, dsp and alu. Fine qtz veinlets throughout, vuggy qtz, strongly oxidized. Iron-oxide veinlets common.
UG012200	Drill core	SND-12-001, 222m	Tonalite	Advanced argillic	Syn-	Anhedral partially dissolved blebby qtz phenos (~0.5mm) set within almost entirely dck. Clusters of mg py throughout.
UG012201	Drill core	SND-12-001, 440m	Tonalite	Advanced argillic	Syn-	Patchy qtz within pockets of dck-alu. Diss mag.
UG012202	Drill core	SND-12-001, 916m	Tonalite porphyry	Advanced argillic	Post-	Porphyritic, ~1-4mm plag phenos completely replaced by mg alu blades, lesser kln-dck. Fg qtz gm (<0.02mm), minor ~1mm qtz phenos. Minor ilt-sme, prl.



**Figure 4.27:** Photographs of samples from the Salakan prospect, Tujuh Bukit, Java. White scale bar is 1 cm.

#### **4.2 – Lombok**

Ten different prospects from Lombok were included in this study. These include Brambang (NW Brambang, Central Brambang, and Permula), Selodong (Montong Botek, Belikat, and Blongas), Lembar, Plambik, Songkang, and Kuta (Fig. 4.28).

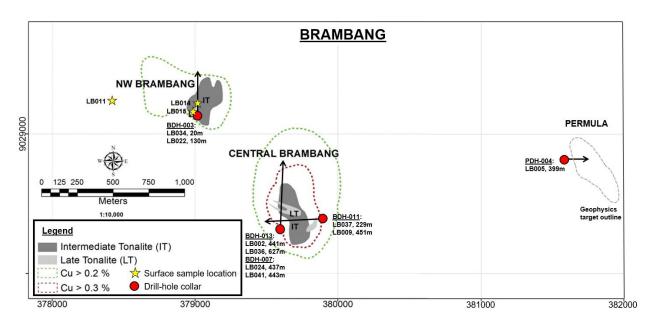


**Figure 4.28:** Regional geologic map of SW Lombok. Stars indicate sample locations. Modified after Mangga et al. (1994).

#### 4.2.1 - Brambana

Twelve samples were collected from surface and drill holes at the NW Brambang, Central Brambang, and Permula prospects (Fig. 4.29). The Brambang area contains a number of multiphase tonalite intrusive complexes hosting porphyry Cu-Au and high-sulfidation epithermal mineralization. Samples are dominantly tonalites, with lesser quartz diorite and one volcaniclastic sample. Six samples are syn-mineralization, sericite-chlorite and intermediate argillic altered tonalites and quartz diorites from within Central Brambang, the most significantly developed prospect on the property. Five samples are from the less-developed NW Brambang prospect, including four syn-mineralization

tonalite/diorite samples, and one pre-mineralization volcaniclastic sample. Three of the samples from NW Brambang (LB011, LB014, LB015) are surface samples from weathered outcrops extending west of drillhole collar BDH-003 (Fig. 4.30). One unaltered quartz diorite sample was collected from the poorly mineralized Permula prospect to the east. Sample information and brief descriptions for tonalite samples at Salakan are in Table 4.11 and sample photographs in Figure 4.31.



**Figure 4.29:** Simplified geologic map of Brambang. Modified after Maryono et al. (2018). Coordinates are UTM zone 50S.

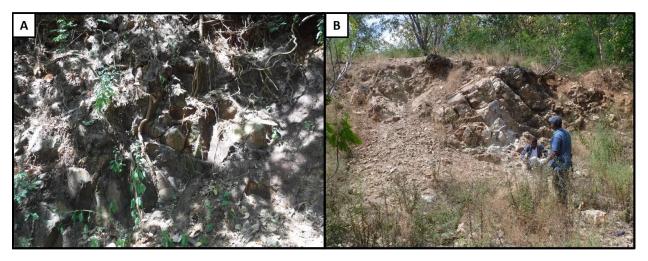
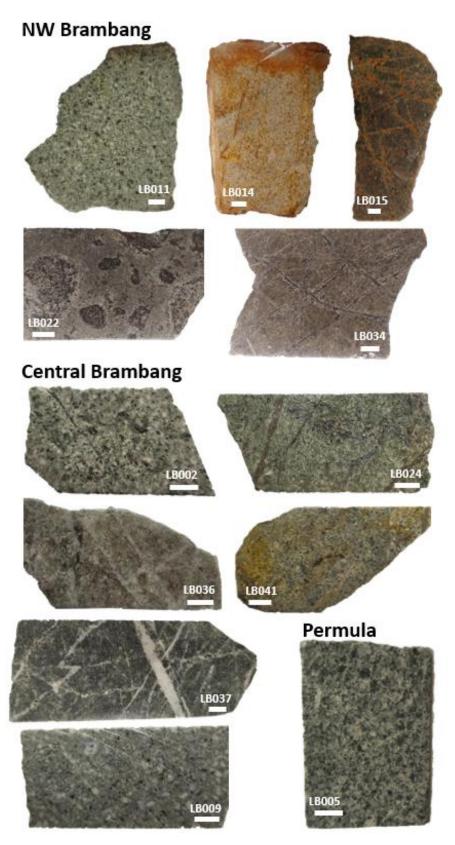


Figure 4.31: (a-b) Tonalite outcrops at NW Brambang (a: LB014; b: LB015). Photos courtesy of Adi Maryono.

**Table 4.11:** Descriptions of samples from NW Brambang, Central Brambang, and Permula prospects, Lombok.

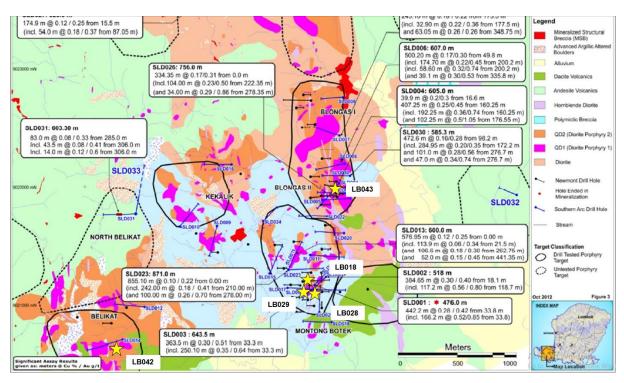
Sample	Sample Type	Drillcore ID	Rock Type	Alteration	Timing	Brief Description
NW Bram	bang					
LB011	Surface		Diorite porphyry	Propylitic	Syn-	Porphyritic, with rare 1-5mm tabular plag phenos within an interlocking fg wk ilt alt plag groundmass with patchy cb-chl. Fg opx, wk alt to srp, lesser chl-cb. diss fg ep, mag.
LB014	Surface		Tonalite	Sericite- chlorite	Syn-	Equigranular, interlocking blebby plag (~0.5mm), minor qtz. Minor clusters of euhedral fg ep, chl and diss mag. Plag mod alt to ilt. Minor oxides, gth-lm.
LB015	Surface		Tonalite porphyry	Sericite- chlorite	Syn-	Porphyritic, blocky 1-10mm plag phenos, wk alt to ilt. Gm splotchy interlocking fg plag, minor qtz, diss fg hbl. Shreddy chl through, minor clays within gm, trace diss ep. < 1% sulfide, cct-ccp-py, weakly oxidized. Mlc splotches throughout sample and on weathered surfaces. Cut by several irregular Fe-oxide veinlets.
LB022	Drill core	BDH-003, 130m	Lapilli tuff	Propylitic	Pre-	Vfg, ~0.05mm variable-sized qtz dominated gm, patchy clay minerals (ilt-sme). Clasts of altered diorite within, diffuse boundaries. Minor fg bt/chl throughout.
LB034	Drill core	BDH-003, 20m	Tonalite porphyry	Sericite- chlorite	Syn-	Porphyritic, 2-4mm tabular plag phenos, minor qtz. Gm interlocking blebby plag, minor qtz, often wk-mod patchy ilt alt. Minor opx, cb, brt, tr. Ep.
Central Bi	rambang					
LB002	Drill core	BDH-013, 441m	Tonalite porphyry	Sericite- chlorite	Syn-	Porphyritic, 2-5mm plag phenos, mod ilt alt, lesser smaller qtz phenos. Relict mafic phenos completely alt to chl-cb-mag. Gm vfg, qtz dominated, lesser plag <0.05mm. Patchy ilt-other clay minerals within gm.
LB036	Drill core	BDH-013, 627m	Tonalite	Intermediate argillic	Syn-	Equigranular qtz blebs (~0.5mm), with interstitial clays and completely destroyed textures. ilt-sme/kln-dck, minor chl.
LB024	Drill core	BDH-007, 437m	Tonalite porphyry	Sericite- chlorite	Syn-	Porphyritic, minor ~1-5mm qtz phenos, often dissected with very irregular resorbed grain boundaries. Minor plag phenos. Qtz-plag fg gm, st alt to ilt-other clays. Patchy cb, minor diss chl.
LB041	Drill core	BDH-007, 443m	Tonalite porphyry	Sericite- chlorite	Syn-	Porphyritic, minor blebby qtz phenos up to 2mm, with plag phenos completely replaced by ilt-sme. Gm qtz dominated with lesser plag, ~<0.05mm. St ilt alt of gm, minor shreddy chl. Mafic phenos replaced by chl-mag-cb.
LB037	Drill core	BDH-011, 229m	Tonalite	Sericite- chlorite	Syn-	Sub-porphyritic, interlocking (up to ~5mm) plag phenos, with fg plag dominated gm with minor qtz. diss ep (~0.5mm) within gm. Relict opx, st alt to chl-srp. Patchy diss and veinlet cb throughout gm, tr. fg hbl.
LB009	Drill core	BDH-011, 451m	Quartz diorite porphyry	Unaltered	Syn-	Porphyritic, 2-10mm plag phenos, lesser smaller qtz. Hbl phenos up to 5mm, anhedral. Gm qtz dominated ~0.25mm. Tr ep, cb within gm.
Permula						
LB005	Drill core	PDH-004, 399m	Quartz diorite	Unaltered	Pre-	Roughly equigranular, interlocking tabular ~1- 4mm plag, unaltered. Lesser qtz interstitial to plag laths. Anhedral fg hbl throughout, some with minor chl alt. Tr. Opx.



**Figure 4.31:** Photographs of samples from NW Brambang, Central Brambang, and Permula. White scale bar is 1 cm.

#### 4.2.2 Selodong

Five samples were collected from surface at the Montong Botek, Belikat, and Belongas prospects, Selodong, Lombok (Fig. 4.32). The Selodong area contains a number of diorite porphyry intrusive complexes hosting porphyry Cu-Au and high-sulfidation epithermal mineralization (Southern Arc Minerals, 2013; Maryono et al., 2018). Montong Botek samples consist of quartz diorites with propylitic and sericite-chlorite alteration. Belikat consists of a weakly propylitic diorite porphyry with minor oxidized veinlets with limonite and malachite after sulfides. Belongas consists of an extremely weathered advanced argillic altered diorite that contains mostly alunite and other clays with minor oxidized quartz-limonite veinlets. Sample information and brief descriptions for tonalite samples at Salakan are in Table 4.12 and sample photographs in Figure 4.33.



**Figure 4.32:** Prospect map of Selodong showing geology and mineralization. Samples in this study indicated by yellow stars. Modified after Southern Arc Minerals (2013).

**Table 4.12:** Descriptions of samples from Montong Botek, Belikat, and Belongas prospects, Selodong, Lombok.

Sample	Sample Type	Rock Type	Alteration	Timing	Brief Description
Montong I	Botek				
LB018	Surface	Quartz diorite	Propylitic	Syn-	Vfg qtz dominated (<0.02mm). Occasional <<0.5mm qtz grains. Patchy clay alt throughout, ilt. ~5% ep, fg often within clay patches, minor chl. All sulfides oxidized. diss/veinlet mag.
LB028	Surface	Quartz diorite	Propylitic	Syn-	Vfg qtz dominated (<0.01mm). Occasional ~<0.5mm qtz grains. Patchy clay alt throughout, ilt. ~5% ep, fg often within clay patches, minor chl. All sulfides oxidized, minor qtz-Feoxide veinlets.
LB029	Surface	Quartz diorite porphyry	Sericite- chlorite	Syn-	Porphyritic, 1-10mm plag phenos, lesser qtz (1-2mm), within vfg qtz dominated gm. Plag completely replaced to ilt, other patches of ilt-sme within gm, often assoc with oxides and fg diss ep.
Belikat					
LB042	Surface	Diorite	Propylitic	Syn-	Porphyritic, blocky plag phenos up to 5mm, relatively unaltered. Gm highly variable, some fg qtz dominated, others fg qtz-plag, others dominated by fg interlocking plag laths. Patchy minor cb, chl throughout, minor ilt, tr. Ep. Oxidized, several qtz-lm veinlets, minor Cu-oxides in veinlets.
Belongas					
LB043	Surface	Diorite	Advanced argillic	Syn-	Extremely weathered, clay-mag alt dominant (alu and other clays). Oxidized, qtz-lm vein stockworks, predominantly gth-lm. (no TS)



**Figure 4.33:** Photographs of samples from Montong Botek, Belikat, and Belongas prospects, Selodong, Lombok. White scale bar is 1 cm.

## 4.2.3 Other Lombok prospects

Eleven samples were collected from surface from four Lombok prospects to the northeast of Brambang and Selodong: Plambik, Songkang, Lembar, and Kuta (Fig. 4.28). These areas have had no previous work done (i.e. sampling, mapping, drilling) and are included in the project on the basis of interesting lithologies, stockwork veining, and alteration. Sample information and brief descriptions for the four prospects are in Table 4.13 and sample photographs in Figure 4.34.

#### Plambik

The Plambik prospect is located within Southwest Praya, Central Lombok district. The four samples are located between 750 and 2,000 m apart. Three samples at Plambik are diorite porphyries, of which LBO27 has minor sericite-chlorite alteration, whereas LB030 and LB031 are relatively unaltered with plagioclase and pyroxene phenocrysts. Sample LB033 is an advanced argillic altered quartz diorite porphyry with significant porphyry quartz-vein stockwork.

#### Songkang

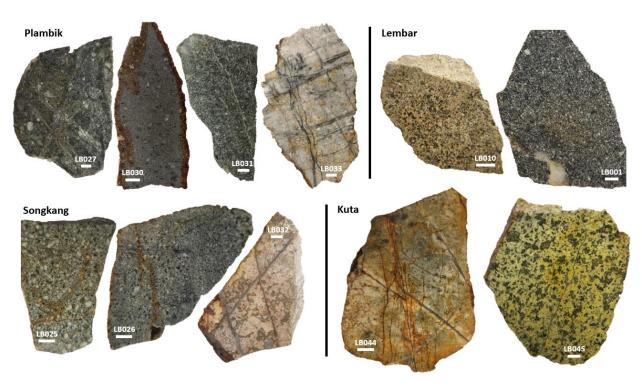
The Songkang prospect is located within Southwest Praya, Central Lombok district approximately 7 km south of Plambik. All three samples at Songkang are quartz diorites with variable propylitic, sericite-chlorite, and advanced argillic alteration. Gusano texture is present within sample LB032.

## Lembar

The Lembar prospect is located at the eastern end of the city of Lembar, West Lombok district, 9 km northwest of Plambik. The two samples at Lembar are propylitic-intermediate argillic altered quartz diorites.

## Kuta

The Kuta prospect is located 1,500 m to the northeast of the town of Kuta, Central Lombok district, 20 km southeast of Plambik. The two samples at Kuta are propylitic-intermediate argillic diorite porphyries. Sample LB044 is cut by significant porphyry quartz-vein stockwork.



**Figure 4.34:** Photographs of samples from Plambik, Songkang, Lembar, and Kuta prospects, Lombok. White scale bar is 1 cm.

**Table 4.13:** Descriptions of samples from Plambik, Songkang, Lembar, and Kuta prospects, Lombok.

Sample	Sample Type	Rock Type	Alteration	Timing	Brief Description
Plambik					
LB027	Surface	Diorite porphyry	Sericite- chlorite	Syn-	Porphyritic, minor plag phenos up to 10mm, most smaller. Gm mostly fg plag, altered to clays - ilt. 10%+ patchy chl within groundmass, relict hbl alt to chl. Patchy cb alt. diss mag.
LB030	Surface	Diorite porphyry	Unaltered	Syn-	Porphyritic, plag phenos up to ~5mm, rare. Fg gm (<0.05mm), interlocking plag laths with mag. Minor OPX phenos, up to 2mm. Patches of srp relict mafic phenos, minor chl.
LB031	Surface	Diorite porphyry	Unaltered	Syn-	Porphyritic, euhedral plag lath phenos up to 3mm, opx and lesser cpx phenos and fg in gm. Gm dominated by plag laths and mag, ~0.25mm. diss mag.
LB033	Surface	Quartz diorite porphyry	Advanced argillic	Syn-	Porphyritic, alt diffuse plag phenos, lesser ~2-5mm qtz phenos. Qtz dominated fg gm. Plag phenos altered to clay - kln-prl. Minor hem/gth blebs within gm. Intense stockwork veining - 21 vein/m (0.1-0.3cm).
Songkan	g				
LB025	Surface	Quartz diorite porphyry	Propylitic	Syn-	Porphyritic, euhedral plag lath phenos up to 8mm, gm $\sim$ 0.25mm qtz-plag, minor ilt alt. $\sim$ 2% finely diss ep, patches of clay, chl and cb within gm.
LB026	Surface	Quartz diorite porphyry	Sericite- chlorite	Syn-	Porphyritic, 1-4mm qtz phenos, lesser plag, minor ilt alt. Diffuse/patchy fg qtz dominated gm, cb-chl-ilt alt, tr ep.
LB032	Surface	Quartz diorite	Advanced argillic	Syn-	Gusano texture. Clusters of bladed alu (~1-2mm) within clusters of vfg qtz <0.025mm. Qtz stockworks, 14 vein/m (0.1-0.5cm), minor Fe-oxides - hem.
Lembar					
LB001	Surface	Quartz diorite	Unaltered	Syn-	Equigranular, ~0.5mm. Interlocking plag laths with interstitial fg qtz blebs. ~1% diss ep, minor act, chl, hbl. diss mag.
LB010	Surface	Quartz diorite porphyry	Intermediate argillic	Syn-	Porphyritic, relict plag laths up to 8mm, altered to clays (ilt- sme, minor kln). Fg qtz and lesser plag gm, <0.02mm, patchy diffuse clay clusters throughout. All sulfides oxidized, minor gth.
Kuta					
LB044	Surface	Diorite porphyry	Intermediate argillic	Syn-	Porphyritic, relict plag up to 4mm, lesser anhedral qtz phenos. Dominant fg <0.05mm qtz gm. Several oxide and qtz veinlets cut sample, some with clays (kln). Minor ilt-prl, alt variable throughout.
LB045	Surface	Diorite porphyry	Propylitic	Syn-	Porphyritic, relict tabular plag phenos up to 4mm alt to ilt- sme. Irregular clay patches throughout gm. Clays and chl alt after mafic phenos. Sulfides oxidized, qtz dominant fg gm (<0.05mm), lesser plag.

#### 4.3 - Sumbawa

Included in this study are six deposits and prospects within Sumbawa. These include the Batu Hijau deposit and two satellite prospects to the northwest at Naga Emas and Nangka, as well as the Elang deposit and two satellite prospects to the northeast at Gerbang and Sepekat, approximately 50 km east of Batu Hijau (Fig. 4.35).

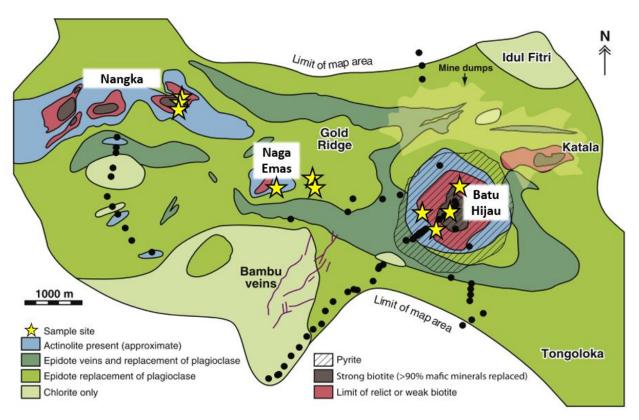


**Figure 4.35:** Map of sample locations within south-west Sumbawa, indicated by stars. Satellite image obtained from Google Earth (Image © TerraMetrics, 2023).

#### 4.3.1 – Batu Hijau district

Eleven samples were collected from drill hole and surface at the Batu Hijau deposit and Naga Emas and Nangka prospects to the northwest (Fig. 4.36). The Batu Hijau district contains several porphyry centres that lie along a 12km belt, localized along the margins of a number of pre-mineralization quartz diorite plutons (Garwin, 2000). West Nangka is a poorly endowed quartz diorite porphyry prospect, typically grading <0.1% Cu and 0.1 g/t

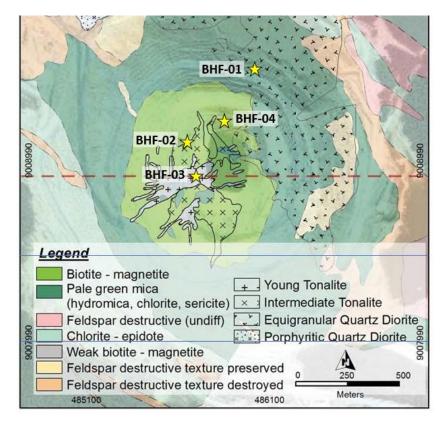
Au (Garwin, 2000). Naga Emas is a recently discovered and poorly understood porphyry prospect, located adjacent to the southern margin of the Santong diatreme.



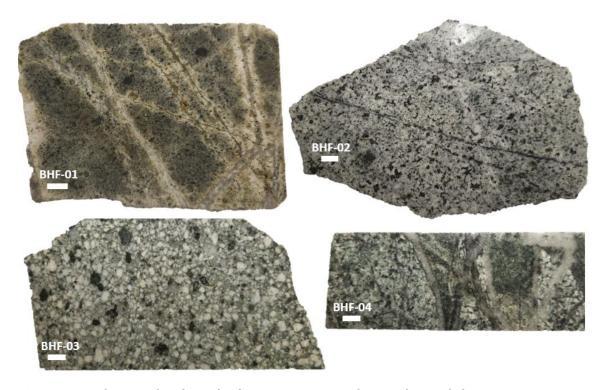
**Figure 4.36:** Simplified alteration map of the Batu Hijau district with sample locations indicated with yellow stars. Modified after Wilkinson et al. (2015) and Garwin (2000).

#### Batu Hijau

Four samples were collected from the Batu Hijau deposit: three samples from the open pit walls (Quartz diorite porphyry, Intermediate tonalite, Young tonalite), and one sample from drillcore (hole SBD731, Intermediate tonalite; Fig. 4.37). All samples are syn-(early- to late-) mineralization. Sample information and brief descriptions for the Batu Hijau samples are in Table 4.14 and sample photographs in Figure 4.38.



**Figure 4.37:** Geologic and alteration map of the Batu Hijau deposit with sample locations indicated with yellow stars. Samples BHF-01 – 03 are from the pit wall, sample BHF-04 is from drill hole SBD731, 873m) Modified after Maryono et al. (2018).



**Figure 4.38:** Photographs of samples from Batu Hijau, Sumbawa. White scale bar is 1 cm.

**Table 4.14:** Descriptions of samples from Batu Hijau, Sumbawa.

Sample	Sample Type	Drillcore ID	Rock Type	Alteration	Timing	Brief Description
BHF-01	Surface		Quartz diorite porphyry	Sericite- chlorite	Syn- (early)	Porphyritic, tabular 2-4mm minor ilt alt plag phenos within equigranular ~0.25mm qtz dominated gm. Mafic phenos and clusters of gm completely replaced to ilt-sme. Shreddy fg chl clusters throughout. ilt-sme bands within fractures and qtz-vein selvages.
BHF-02	Surface		Intermediate Tonalite	Sericite- chlorite	Syn-	Sub-porphyritic, with interlocking plag phenos up to 3mm. Clusters of fg shreddy bt and chl within gm. Minor ~1-2% ep and czo. Clusters of fg qtz interstitial to larger plag phenos clusters. Minor iltsme. Tr. cb. diss mag.
BHF-03	Surface		Young Tonalite	Sericite- chlorite	Syn- (late)	Porphyritic, up to 1cm tabular plag and anhedral qtz phenos set within fg (aphanitic, <0.1mm) qtz dominated gm. Minor ep/czo. Shreddy chl and patchy ilt within gm. Some shreddy secondary bt clusters, enveloping some plag phenos. Minor cb.
BHF-04	Drill hole	SBD731, 873m	Intermediate Tonalite	Sericite- chlorite	Syn-	Sub-porphyritic, with interlocking plag phenos up to 2mm, st alt to ilt-sme. Clusters of fg shreddy bt and chl within fg qtz dominated gm. Minor cb.

# Naga Emas and Nangka

The Naga Emas and Nangka prospects are approximately 3 and 6 km to the northwest of Batu Hijau, respectively (Fig. 4.36). Samples at both prospects consist of sericite-chlorite altered diorites to quartz diorites. Sample information and brief descriptions for the Batu Hijau samples are in Table 4.15 and sample photographs in Figure 4.39.

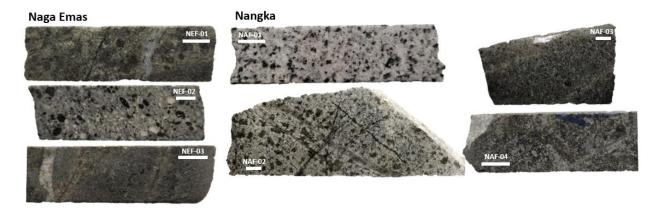


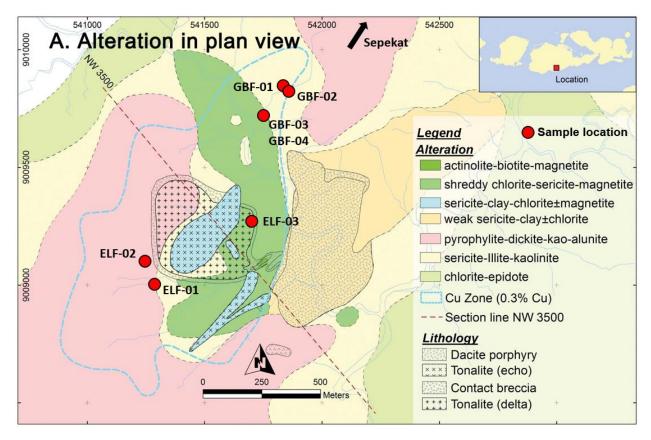
Figure 4.39: Photographs of samples from Naga Emas and Nangka prospects. White scale bar is 1 cm.

**Table 4.15:** Descriptions of samples from Naga Emas and Nangka prospects, Batu Hijau district, Sumbawa.

Sample	Sample Type	Drillcore ID	Rock Type	Alteration	Brief Description
Naga Emas					
NEF-01	Drill hole	SGD-010, 453m	Diorite	Sericite- chlorite	Sub-porphyritic, patchy ilt-sme/prl and chl in relict plag and diss throughout fg qtz dominated gm. Tr. alu.
NEF-02	Drill hole	SGD-008, 260m	Hornblende quartz diorite porphyry	Unaltered	Porphyritic, euhedral ~1-5mm hbl and 1-2mm plag (lesser qtz) phenos. Tabular 1-2mm bt phenos completely replaced to chl-cb-ilt. Qtz dominated gm vfg (<0.05mm). Plag unaltered.
NEF-03	Drill hole	SGD-010, 548.2m	Diorite	Sericite- chlorite	Sub-porphyritic, rare anhedral 1-2mm tabular plag phenos within fg qtz dominated gm. ~5% <0.5mm blocky anh throughout gm, patchy chl. <0.5mm anhedral fg opx throughout.
Nangka					
NAF-01	Drill hole	BND-002, 660m	Quartz diorite	Propylitic	Equigranular, ~1-2mm interlocking qtz and tabular plag. Chl after bt, often in 1- 2mm clusters. Tr ep, anh.
NAF-02	Drill hole	BND-002, 265m	Quartz diorite porphyry	Sericite- chlorite	Porphyritic, ~2mm plag set within fg qtz dominated gm. ~2mm patches of prl/ilt-sme. Shreddy chl in clusters within gm. Numerous hairline mag/cb veinlets.
NAF-03	Drill hole	BND-002, 390m	Quartz diorite	Sericite- chlorite	Sub-porphyritic, 1-2mm blocky plag within fg qtz, bt, ms, chl, and lesser ilt-prl gm. Tr ep, anh, diss mag.
NAF-04	Drill hole	BND-002, 540m	Diorite	Sericite- chlorite	Equigranular, ~1-3mm interlocking tabular plag with qtz, minor chl-bt often in patches. Minor ilt alt, tr. prl.

## 4.3.2 – Elang District

Thirteen samples were collected from drill core at the Elang deposit and Gerbang and Sepekat prospects to the northeast (Fig. 4.40). At Elang, several Cu-Au mineralized centres are aligned along a 7 km NNE-trending structural corridor (Maryono et al., 2005). Gerbang samples are within the Elang deposit 0.3% Cu ore shell, and the Sepekat prospect is 2 km to the northeast of Gerbang.



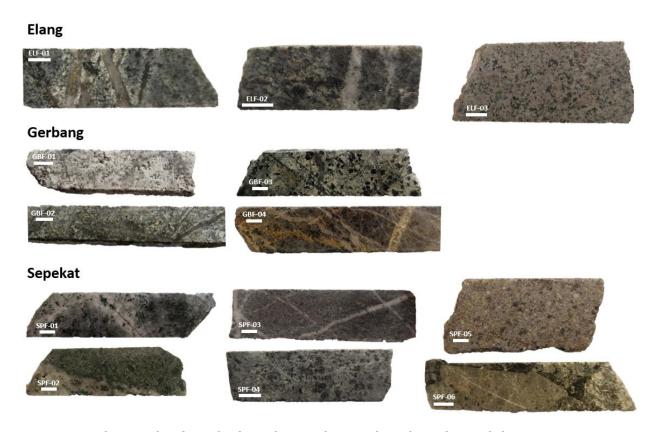
**Figure 4.40:** Alteration and geologic map of Elang deposit. Red circles indicate location of drill-hole collars. Sepekat prospect is 2 km to the northeast of Gerbang samples. Modified after Maryono et al. (2018).

A series of nestled tonalite intrusions comprise the Elang deposit, with the Charlie and Delta tonalites (samples ELF-01, ELF-02) considered to be causative intrusions associated with Cu-Au mineralization, with a low-grade core of later Echo tonalite (ELF-03; Maryono et al., 2005, 2018). The three samples are advanced argillic altered, with moderate amounts of pyrophyllite ± kaolinite.

Four samples (GBF-01 to GBF-04) were collected from drillcore at the Gerbang prospect to the northeast of Elang (Fig. 4.40). They consist of intermediate argillic and advanced argillic tonalites to quartz diorites, often with texturally destructive kaolinite-dickite  $\pm$  pyrophyllite alteration.

Six samples were collected from drillcore at the Sepekat prospect (SPF-01 to SPF-06), 2 km to the northeast of Gerbang. Samples are dominantly diorite to quartz diorite, with weaker (in comparison to Elang and Gerbang) sericite-chlorite alteration. One sample, SPF-06 is a mineralized potassic-altered clast-supported intrusive breccia with strong secondary shreddy biotite alteration and consists of clasts of diorite to quartz diorite with volcanic rock fragments.

Sample information and brief descriptions for the Elang district samples are in Table 4.16 and sample photographs in Figure 4.41.



**Figure 4.41:** Photographs of samples from Elang, Gerbang, and Sepekat. White scale bar is 1 cm.

**Table 4.16:** Description of samples from Elang, Gerbang, and Sepekat, Elang district, Sumbawa.

Sample	Sample Type	Drillcore ID	Rock Type	Alteration	Timing	Brief Description
Elang						
ELF-01	Drill core	DLD-500, 1157m	Delta Tonalite	Advanced argillic	Syn-	Equigranular, ~1-2mm plag and qtz with minor interstitial fg qtz. Mod ilt alt on plag, minor bt and chl within gm. Minor anh, diss and veinlet. Minor patches of prl, lesser kln and ilt.
ELF-02	Drill core	DLD-500, 1355.7m	Charlie Tonalite	Advanced argillic	Syn-	Sub-porphyritic, minor ~1mm qtz phenos, all others completely alt to ilt. Gm ~0.25mm, equigranular, diss anh (~10%). Minor patches of prl-kln within gm. Minor chl, cb.
ELF-03	Drill core	DLD-452, 101m	Echo Tonalite	Advanced argillic	Syn- (late)	Sub-porphyritic, anhedral qtz and tabular plag up to 4mm. Fg (<0.25mm) qtz gm interstitial to larger grains. Patchy/shreddy fg chl, minor ep, czo, ilt.
Gerbang						
GBF-01	Drill core	DLD-206, 169m	Delta Tonalite	Advanced argillic	Syn-	Destructive AA alt, original textures gone, composed of patches of dck-alu-prl-kln replacing both phenos and gm. diss mag.
GBF-02	Drill core	DLD-206, 301.5m	Charlie Tonalite	Intermediate argillic	Syn-	Destructive IA alt, fg qtz groundmass (<0.2mm) intermingled with clays - ilt-sme, lesser prl dominate sample and replaced plag and gm. Minor shreddy chl. diss mag.
GBF-03	Drill core	DLD-139, 177.5m	Quartz diorite	Intermediate argillic	Syn-	Fg qtz gm (<0.2mm), with relict phenos and intense clay alt. Clusters of chl and py-mag, with ilt-sme, prl and cb. Lesser kln.
GBF-04	Drill core	DLD-139, 193.6m	Quartz diorite porphyry	Intermediate argillic	Syn-	Phenos up to 3mm and gm completely replaced by clay. Patchy cb throughout, minor chl in fractures, some larger 1-2mm shreddy chl grains. Tr ep, minor vfg anhedral qtz gm.
Sepekat						
SPF-01	Drill core	DKD-016, 261.1m	Quartz diorite	Sericite- chlorite		Dominantly fg qtz gm (<0.2mm), equigranular. Relict patchy opx, mostly replaced by ilt-sme-cb- anh. Minor shreddy chl, cb.
SPF-02	Drill core	DKD-016, 458m	Diorite	Sericite- chlorite		Sub-porphyritic, 1-2mm plag and actinolite within fg (<0.25mm) qtz gm. Minor blocky opx, minor shreddy bt/chl. Minor anh, patchy ilt alt within gm.
SPF-03	Drill core	DKD-011, 148m	Quartz diorite	Unaltered		1-2mm, equigranular, mostly interlocking plag grains with lesser qtz, opx, actinolite. Wk ilt alt on plag. Minor chl. Tr ep, anh, hbl.
SPF-04	Drill core	DKD-016, 523m	Quartz diorite	Unaltered		Sub-porphyritic, 1-2mm blocky plag phenos within fg (<0.25mm) qtz-plag gm. diss fg bt and chl throughout, tr. Actinolite, anh.
SPF-05	Drill core	DKD-011, 22m	Quartz diorite	Sericite- chlorite		Sub-porphyritic, dominantly varyingly sized interlocking plag (~0.5-4mm), with lesser qtz. Oxidized, Im and hem diss and within fractures. ChI after bt laths. Pockets of clays - minor prl with ilt. diss mag.
SPF-06	Drill core	DKD-016, 559m	Intrusive breccia	Potassic		Porphyritic, 2-4mm euhedral plag phenos (minor qtz) within vfg (<0.1mm) qtz-plag gm. Patchy clusters of vfg shreddy bt within gm (~15%). Wk ilt alt of plag, tr clay minerals kln-prl. Minor chl. diss mag.

#### **Chapter 5: Results**

# 5.1 – Whole-rock geochemistry

Ninety-seven samples from the eastern Sunda arc, Indonesia were analysed for whole-rock major and trace element geochemistry. Of these, 57 samples were from drillcore and 40 were from surface rock chips. Forty-five samples are from Central and East Java, 28 from Lombok, and 24 from Sumbawa (Fig. 5.1). Samples for whole rock geochemical analysis were taken from a larger rock sample, the remainder of which was retained for petrological work and mineral separation. All whole rock geochemistry samples were between 160 g and 790 g, with an average of approximately 430 g. A significant number of samples contained quartz veining or silica alteration which were not removed prior to analysis, and as a result SiO<sub>2</sub> contents should be treated with caution.

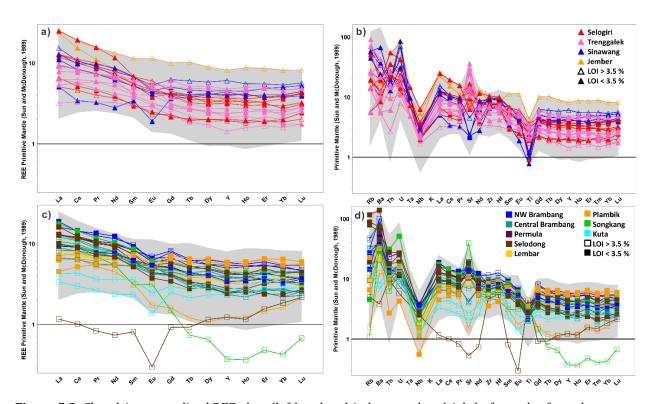


**Figure 5.1:** Sample sites within the eastern Sunda arc at central and east Java, Lombok, and Sumbawa. Satellite image obtained from Google Earth (Image © TerraMetrics, 2023).

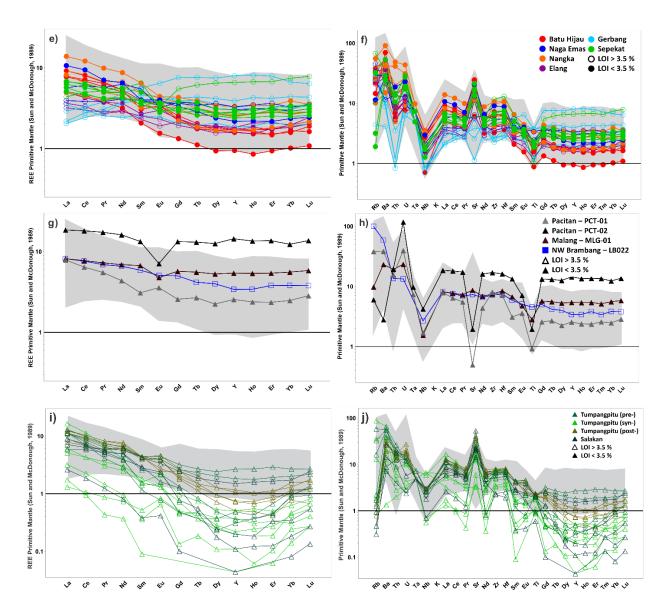
The majority of samples display some form of hydrothermal alteration, and accordingly samples with loss on ignition (LOI) values of >3.5 wt. % are illustrated as open circles on all major and trace element diagrams in this chapter, and samples with LOI < 3.5 wt. % illustrated as closed circles. This was based on the screening suggestions of Loucks (2014) for porphyry-related magma discrimination diagrams. The loss on ignition values range from 0.63 to 18.5, with 54 of 97 samples having a LOI value > 3.5 wt. %. Samples LB005 (Permula, Lombok), LB009 (Central Brambang, Lombok), LB030 (Plambik, Lombok), LB031 (Plambik, Lombok), LB001 (Lembar, Lombok), NEF-02 (Naga Emas, Sumbawa), NAF-01 (Nangka, Sumbawa), SPF-03 (Sepekat, Sumbawa), SPF-04 (Sepekat, Sumbawa) are the only very weakly altered or unaltered samples in the study, based on petrographic observations. Sample PNG-01 (Ponorogo, East Java) has been excluded from this section due to it being a breccia and as such does not provide insight into the magmatic evolution of the study area. Site and lithological descriptions can be found in Chapter 4, and major, trace, and rare earth element concentrations of samples are provided in Appendix A.

Samples collected in this study throughout the eastern Sunda arc consist largely of porphyritic to equigranular diorites, quartz diorites, and tonalites, with only four volcanic samples (PCT-01 – dacite tuff, PCT-02 – andesite porphyry, MLG-02 – andesite porphyry, and LB022 – lapilli tuff). Silica contents for eastern Sunda arc rocks range from 48 to 77 weight percent, with a majority of samples containing between 55 and 70 weight percent SiO<sub>2</sub>, excluding five outlier samples that have more quartz veining than host or contain significant silica alteration. The quartz veining and intensity of hydrothermal alteration mean that major element whole rock geochemistry is potentially unreliable, however the immobile trace elements should be more robust.

On primitive mantle normalized multielement plots, samples are characterized by strong negative Ti and Nb anomalies, with flat to weakly positive Zr and Hf anomalies (Fig. 5.2). A significant number of samples have positive to very positive Sr anomalies. The majority of samples are characterized by enriched LREE and flat HREE, with a relatively flat profile for volcanic samples (Fig. 5.2). Europium is variable with most samples displaying a flat to weakly positive or negative anomaly. Significantly altered samples with LOI > 3.5 wt. % (open circles) often display an erratic major element and REE signature, especially the Tujuh Bukit (Tumpangpitu and Salakan) samples, which have a high average LOI of 9.70 wt. %.



**Figure 5.2:** Chondrite-normalized REE plots (left) and multi-element plots (right) of samples from the eastern Sunda arc. (a-b) Java, (c-d) Lombok, (e-f) Sumbawa, (g-h) volcanics, (i-j) Tujuh Bukit district. Normalizing values from Sun and McDonough (1989). Grey region is area of all intrusive analyses with LOI < 3.5 wt. %.



**Figure 5.2:** (Cont'd).

# 5.2 – Heavy mineral separates

All samples underwent heavy mineral separation to liberate zircon, apatite, titanite, and/or rutile grains from their host prior to LA-ICP-MS geochemical analysis. Ninety-three of 97 samples had recovery of sufficient grains of at least one of zircon, apatite, titanite, and/or rutile. The samples that failed to produce more than one grain at least 30 microns in size are SPF-01, SPF-02, SPF-04 (Sepekat), and SEF-03 (Selogiri). Seventy-seven samples

had zircon recovered, 54 with apatite, 26 with titanite, and 67 with rutile. Seventy-five samples had two or more of zircon, apatite, titanite, and/or rutile recovered. Grain analysis numbers from each sample are in Table 5.1. AMICS maps were generated for each sample and corresponding analysed grains indicated by number (Fig. 5.3). All annotated AMICS maps, modal percentages and grain abundances within samples are in Appendix E.

**Table 5.1:** Number of mineral grains analysed for each sample within the eastern Sunda arc.

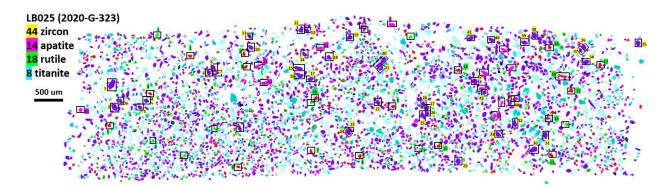
Sample ID	Rock Name	Alteration	Zircon	Apatite	Titanite	Rutile
Selogiri (Rand	u Kuning), Java		<del>-</del>	<del>-</del>	_	_
SEF-01	Hornblende diorite porphyry	Sericite-chlorite	18	20	6	
SEF-02	Hornblende diorite	Sericite-chlorite	3	15	13	3
SEF-04	Diorite	Sericite-chlorite		25	7	
SLG-01	Quartz diorite porphyry	Advanced argillic	34	26		19
SLG-02	Hornblende diorite porphyry	Intermediate argillic	11	21	18	
SLG-03	Diorite	•	• • •	8	12	
	=	Propylitic		0	12	
Jerambah, Tre		Dranditio	22	20	40	40
JER-01 TR-01	Quartz diorite porphyry	Propylitic Sericite-chlorite	22	20 28	18	19
	Quartz diorite porphyry enggalek, Java	Sericite-Chlorite		20		
SING-01	Tonalite porphyry	Sericite-chlorite	4	5	4	3
SING-02	Tonalite porphyry  Tonalite porphyry	Sericite-chlorite	31	18	9	14
TR-03	Diorite	Sericite-chlorite	2	7	J	1-7
	renggalek, Java	Corrollo Criterito		•		
TR-02	Quartz diorite porphyry	Sericite-chlorite	33	22	6	
	ng, Trenggalek, Java				-	
TR-05	Quartz diorite porphyry	Sericite-chlorite		29		5
TR-04	Diorite	Sericite-chlorite	34	14	3	10
Sinawang, Tul	ungagung, Java					
SINA-01	Quartz diorite porphyry	Advanced argillic	27		2	9
SINA-02	Quartz diorite porphyry	Advanced argillic	30			8
SINA-04	Quartz diorite porphyry	Advanced argillic	34			8
SINA-05	Quartz diorite porphyry	Advanced argillic	40			3
Malang, Java						
MLG-01	Andesite porphyry	Propylitic		27		
Jember, Java						
JEM-01	Tonalite	Sericite-chlorite		5		28
JEM-02	Quartz diorite porphyry	Potassic	16	7		2
_	Tumpangpitu (pre-), Java					
UG012183	Diorite porphyry	Advanced argillic	6			29
UG012191	Diorite porphyry	Advanced argillic	33			26
UG012192	Diorite porphyry	Advanced argillic	11			13
UG012194	Diorite	Advanced argillic	13			15
UG012198	Diorite porphyry	Advanced argillic	42			30
UG012185	Tumpangpitu (syn-), Java Tonalite	Advanced argillic	26			15
UG012185 UG012188	Tonalite Tonalite	Advanced argillic Advanced argillic	26 27			15 32
UG012189	Tonalite	Advanced argillic	12			32 21
UG012189	Tonalite	Advanced argillic	32			32
UG012196	Tonalite porphyry	Advanced argillic	23			72
UG012197	Tonalite	Intermediate argillic	25 25			10
00012101	TOTIGITO	miormodiate arginie				

**Table 5.1:** (Cont'd).

Sample ID	Rock Name	Alteration	Zircon	Apatite	Titanite	Rutile
Tujuh Bukit - Tu	mpangpitu (post-), Java					
UG012184	Diorite porphyry	Advanced argillic	42			28
UG012186	Diorite porphyry	Advanced argillic	21			24
UG012187	Diorite porphyry	Advanced argillic	19			15
UG012193	Diorite porphyry	Advanced argillic	20			18
UG012195	Diorite porphyry	Advanced argillic	26			15
Tujuh Bukit - Sa						
UG012199	Tonalite porphyry	Advanced argillic	7			11
UG012200	Tonalite	Advanced argillic	8			30
UG012201	Tonalite	Advanced argillic				10
UG012202	Tonalite porphyry	Advanced argillic				4
NW Brambang, I	Lombok					
LB011	Diorite porphyry	Propylitic	7	32		
LB014	Tonalite	Sericite-chlorite	30	40	22	
LB015	Tonalite porphyry	Sericite-chlorite	7			
LB022	Lapilli tuff	Sericite-chlorite		15	2	8
LB034	Tonalite porphyry	Sericite-chlorite	27	25		
Central Brambar						
LB009	Quartz diorite porphyry	Unaltered	22	14		
LB037	Tonalite	Sericite-chlorite		39	41	
LB002	Tonalite porphyry	Sericite-chlorite	46	14		19
LB024	Tonalite porphyry	Sericite-chlorite	38	8		
LB036	Tonalite	Intermediate argillic	20	6	2	17
LB041	Tonalite porphyry	Sericite-chlorite	33			11
Permula, Lombo						
LB005	Quartz diorite	Unaltered	18			9
Selodona - Mont	tong Botek, Lombok					
LB018	Quartz diorite	Propylitic	39	9	5	9
LB028	Quartz diorite	Propylitic	30			9
LB029	Quartz diorite porphyry	Sericite-chlorite	39	4	2	9
Selodong - Belik	rat, Lombok					
LB042	Diorite	Propylitic	33	20	2	
Selodong - Belo	ngas, Lombok					
LB043	Diorite	Advanced argillic	10			17
Lembar, Lombol	k	-				
LB001	Quartz diorite	Unaltered		20		
LB010	Quartz diorite porphyry	Intermediate argillic	6	28		
Plambik, Lombo	k					
LB027	Diorite porphyry	Sericite-chlorite		13		
LB030	Diorite porphyry	Unaltered		17		
LB031	Diorite porphyry	Unaltered		17		
LB033	Quartz diorite porphyry	Advanced argillic	10			20
Songkang, Lomi	bok					
LB025	Quartz diorite porphyry	Propylitic	41	18	12	18
LB026	Quartz diorite porphyry	Sericite-chlorite	25	35	7	
LB032	Quartz diorite	Advanced argillic	15			18
Kuta, Lombok						
LB044	Diorite porphyry	Intermediate argillic	5			15
LB045	Diorite porphyry	Propylitic	20			19
Batu Hijau, Sum						
BHF-01	Quartz diorite porphyry	Sericite-chlorite	9	25		35
BHF-02	Intermediate tonalite	Sericite-chlorite	26	30	16	4
BHF-03	Young tonalite	Sericite-chlorite	36	22		12
BHF-04	Intermediate tonalite	Sericite-chlorite	42	33		20
	u Hijau District, Sumbawa					
NEF-01	Diorite	Sericite-chlorite	3	5		23
NEF-02	Hornblende quartz diorite	Unaltered	43	31	5	17
	porphyry Diorite	Sericite-chlorite				16
NEF-03	Diorite	Sericite-chlorite	9	17		16

**Table 5.1:** (Cont'd).

Sample ID	Rock Name	Alteration	Zircon	Apatite	Titanite	Rutile
Nangka, Batu H	lijau District, Sumbawa					
NAF-01	Quartz diorite	Propylitic	33	36	34	12
NAF-02	Quartz diorite porphyry	Sericite-chlorite	46	25		21
NAF-03	Quartz diorite	Sericite-chlorite	35	28		15
Elang, Sumbaw	ra					
ELF-01	Delta tonalite	Sericite-chlorite	29	31	16	30
ELF-02	Charlie tonalite	Sericite-chlorite	34	33		32
ELF-03	Echo tonalite	Sericite-chlorite	22	35	8	17
Gerbang, Elang	District, Sumbawa					
GBF-01	Delta tonalite	Advanced argillic	16			31
GBF-02	Charlie tonalite	Intermediate argillic				30
GBF-03	Quartz diorite	Intermediate argillic	6	9		19
GBF-04	Quartz diorite porphyry	Intermediate argillic	7	17		8
Sepekat, Elang	District, Sumbawa					
SPF-03	Quartz diorite	Unaltered	19			
SPF-05	Quartz diorite	Sericite-chlorite	13	30	10	5
SPF-06	Intrusive breccia	Potassic	19			29
·	·	Total:	1743	1124	282	1122



**Figure 5.3:** Example of AMICS map of sample mount LB025 (Songkang, Lombok). Analyzed grains are indicated by black boxes and analysis numbers indicated by coloured label. Numbers in top left correspond to total number of each phase analysed in sample. All annotated AMICS maps are in Appendix E.

# 5.3 – *Uranium-lead geochronology*

This section presents LA-ICP-MS U-Pb geochronological data for intrusive rocks from 28 porphyry Cu-Au prospects and deposits throughout the eastern Sunda arc.

Uranium-lead geochronology was attempted on zircon, apatite, titanite, and rutile from all samples, where present. Ten sites have previous age determinations: Selogiri (Maryono et al., 2018), Kasihan (JICA-JOGMEC, 2004), Singgahan (Arc Exploration, 2013), Jerambah (Arc

Exploration, 2013), Sinawang (Arc Exploration, 2013; Harrison, 2017), Tumpangpitu (Harrison, 2017), Brambang (Maryono et al., 2018), Selodong (Maryono et al., 2018), Batu Hijau (Garwin, 2000; Maryono et al., 2018), and Elang (Garwin, 2000; Maryono et al., 2018).

Table 5.2 summarizes analytical results for 28 samples from 16 sites with no previous geochronological data. New ages from the 483 zircon spots range from 27.0 to 2.73 Ma. Some of the zircons analysed contained only common Pb, with no radiogenic Pb detected and consequently are not included in age determinations. Full geochronological data for all 76 zircon samples are listed in Appendix B. Figure 5.4 presents examples of Concordia plots from the Elang deposit.

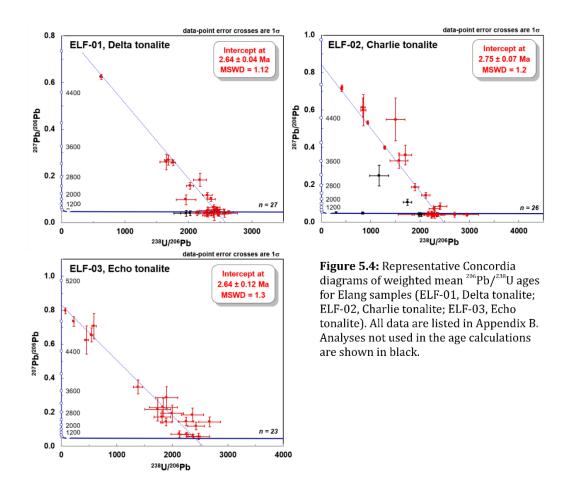
**Table 5.2:** Summary of new zircon weighted mean <sup>206</sup>Pb/<sup>238</sup>U age determinations from intrusive rocks along the eastern Sunda arc. Ages listed are of the youngest population within the sample. \* Sample type column denotes collected at surface or indication of drillhole and depth. \*\* Coordinates column consists of Easting (m), Northing (m), and UTM zones, respectively. Full data are provided in Appendix B.

Sample ID	Sample type*	Coordinates**	Rock name	Age (Ma)	Error (2σ)	# of analyses
Gemaharjo, J	lava					
PCT-02	Surface	536968, 9109659, 49S	Andesite porphyry	27.00	1.30	3
Gandusari, J	ava					
PNG-01	Surface	546107, 9097341, 49S	Breccia	25.20	1.10	4
Kebo Gemuli	ung, Java					
TR-04	Surface	581658, 9083063, 49S	Diorite	23.23	0.32	25
Kali Petang,	Java					
TR-02	Surface	566578, 9088021, 49S	Quartz diorite porphyry	14.80	0.31	32
Jember, Java	1					
JEM-02	Surface	811043, 9074525, 49S	Quartz diorite porphyry	6.94	0.11	16
Tujuh Bukit -	Salakan, Java					
UG012199	SND-12-001, 112m		Tonalite porphyry	9.59	0.68	5
UG012200	SND-12-001, 222m		Tonalite	8.49	0.25	8
Permula, Lor	mbok					
LB005	PDH-004, 399m	382077, 9028601, 50S	Quartz diorite	7.62	0.10	18
Belikat, Selo	dong, Lombok					
LB042	Surface	389266, 9020640, 50S	Diorite	7.20	0.21	33
Plambik, Lon	nbok					
LB033	Surface	409114, 9031897, 50S	Quartz diorite porphyry	17.64	0.27	9

**Table 5.2:** (Cont'd).

Sample ID	Sample type*	Coordinates**	Rock name	Age (Ma)	Error (2σ)	# of analyses
Songkang, L	.ombok					
LB025	Surface	407704, 9025149, 50S	Quartz diorite porphyry	8.23	0.16	45
LB026	Surface	407674, 9025238, 50S	Quartz diorite porphyry	7.99	0.30	19
LB032	Surface	407819, 9025049, 50S	Quartz diorite	10.65	0.41	12
Lembar, Lon	nbok					
LB010	Surface	399485, 9033793, 50S	Quartz diorite porphyry	17.37	0.63	3
Kuta, Lombo	ok					
LB044	Surface	421851, 9017835, 50S	Diorite porphyry	20.46	0.63	5
LB045	Surface	421846, 9017831, 50S	Diorite porphyry	20.47	0.40	18
Naga Emas,	Batu Hijau District, S	umbawa				
NEF-01	SGD-010, 453m	483003, 9009541, 50S	Diorite	3.39	0.68	3
NEF-02	SGD-008, 260m	482349, 9009573, 50S	Hornblende quartz diorite	5.05	0.12	42
NEF-03	SGD-010, 548m	483006, 9009499, 50S	Diorite	10.65	0.31	3
Nangka, Bat	u Hijau District, Suml	bawa				
NAF-01	BND-002, 660m	480358, 9011256, 50S	Diorite	5.55	0.09	22
NAF-02	BND-002, 265m	480347, 9011046, 50S	Quartz diorite porphyry	6.25	0.14	42
NAF-03	BND-002, 390m	480349, 9011108, 50S	Quartz diorite	6.46	0.14	35
Gerbang, Ela	ang District, Sumbaw	а				
GBF-01	DLD-206, 167m	541873, 9009899, 50S	Delta Tonalite	2.73	0.15	15
GBF-03	DLD-139, 177.5m	541726, 9009764, 50S	Quartz diorite	2.80	0.14	6
GBF-04	DLD-139, 193.6m	541722, 9009770, 50S	Quartz diorite porphyry	2.93	0.49	10
Sepekat, Ela	ng District, Sumbawa	1				
SPF-03	DKD-011, 148m	542681, 9011557, 50S	Quartz diorite	2.92	0.08	17
SPF-05	DKD-011, 22m	542744, 9011555, 50S	Quartz diorite	2.95	0.13	14
SPF-06	DKD-016, 559m	543125, 9012526, 50S	Intrusive breccia	2.91	0.10	19

Tables 5.3 and 5.4 summarize analytical results for eight titanite geochronology samples and 18 rutile geochronology samples. Ages from the 424 rutile spots and 153 titanite spots range from 33.2 to 2.55 Ma. A significant number of the rutile and titanite samples contain some or all analyses with high amounts of common Pb, with such ages not included here but data are provided in Appendix B. Geochronology was attempted on all apatite-bearing samples, however almost all analyses contain high amounts of common Pb, leading to imprecise ages and are not included in this chapter. Full geochronological data for all rutile, titanite, and apatite analyses are listed in Appendix B.



**Table 5.3:** Summary of titanite weighted mean  $^{206}$ Pb/ $^{238}$ U age determinations from intrusive rocks along the eastern Sunda arc. \* Sample type column denotes collected at surface or indication of drillhole and depth. \*\* Coordinates column consists of Easting (m), Northing (m), and UTM zone, respectively. Full data are provided in Appendix B.

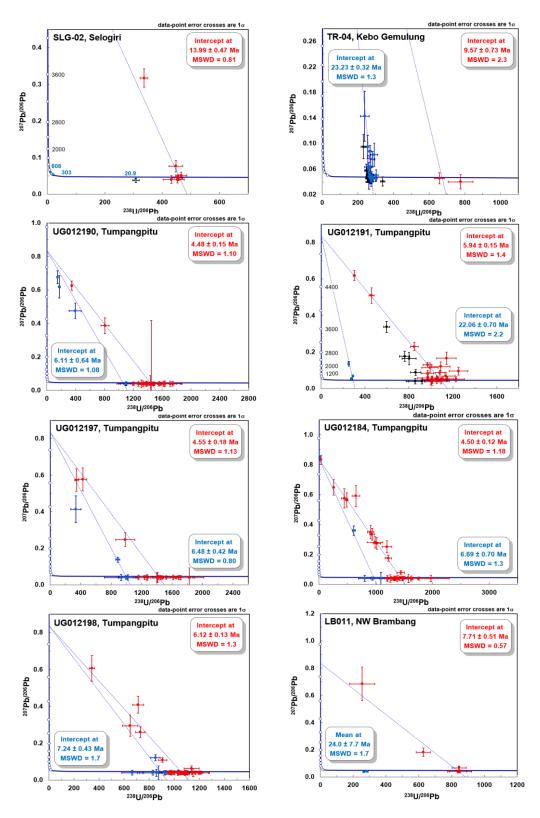
Sample ID	Sample type*	Coordinates**	Rock name	Age (Ma)	Error (2σ)	# of analyses
Selogiri (Ra	ndu Kuning), Java					
SLG-02	Surface	486332, 9138152, 49S	Hornblende diorite	13.3	2.8	16
SLG-03	Surface	486450, 9138298, 49S	Quartz diorite porphyry	14.7	1.6	12
SEF-01	WDD08, 9.5m	486174, 9138115, 49S	Diorite porphyry	14.6	1.5	6
NW Bramba	ang, Lombok					
LB014	Surface	379012, 9029222, 50S	Tonalite	8.48	0.73	29
Central Bra	mbang, Lombok					
LB037	BDH-011, 229m	379933, 9028382, 50S	Tonalite	6.83	0.46	36
Songkang,	Lombok					
LB026	Surface	407674, 9025238, 50S	Quartz diorite porphyry	9.2	1.7	7
Nangka, Su	mbawa					_
NAF-01	BND-002, 660m	480358, 9011256, 50S	Diorite	5.76	0.54	38
Sepekat, Su	ımbawa					
SPF-05	DKD-011, 22m	542744, 9011555, 50S	Quartz diorite	8.9	5.7	9

**Table 5.4:** Summary of rutile weighted mean <sup>206</sup>Pb/<sup>238</sup>U age determinations from intrusive rocks along the eastern Sunda arc. \*Sample type column denotes collected at surface or indication of drillhole. \*\*Coordinate column consists of Easting (m), Northing (m), and UTM zone. Full data are provided in Appendix B.

Sample ID	Sample type*	Coordinates**	Rock name	Age (Ma)	Error (2σ)	# of analyses
Selogiri (Rai	ndu Kuning), Java					
SLG-01	Surface	486416, 9138208, 49S	Quartz diorite porphyry	14.8	3.0	19
Gemaharjo,	Java					
PCT-02	Surface	536968, 9109659, 49S	Andesite porphyry	33.2	5.9	35
Jember, Jav	a					
JEM-02	Surface	811043, 9074525, 49S	Quartz diorite porphyry	7.36	0.63	3
Tujuh Bukit	- Tumpangpitu (pre-),	Java				
UG012198	UHGZ-20-016, 636n	n	Diorite porphyry	5.4	1.6	30
Tujuh Bukit	- Tumpangpitu (syn-)	, Java				
UG012190	UHGZ-20-018, 322n	n	Tonalite	10.3	5.3	34
Central Bran	nbang, Lombok					
LB002	BDH-013, 441m	379616, 9028323, 50S	Tonalite porphyry	7.1	0.4	24
LB036	BDH-013, 627m	379616, 9028323, 50S	Tonalite	7.3	1.6	22
LB041	BDH-007, 443m	379616, 9028318, 50S	Tonalite porphyry	7.5	1.8	20
Plambik, Lo	mbok					
LB033	Surface	409114, 9031897, 50S	Quartz diorite porphyry	16.8	7.6	24
Batu Hijau, S	Sumbawa					
BHF-01	Surface	485966, 9009438, 50S	Quartz diorite porphyry	3.45	0.23	34
BHF-04	SBD731, 874m	485637, 9008991, 50S	Intermediate Tonalite	4.33	0.76	22
Naga Emas,	Batu Hijau District, S	umbawa				
NEF-02	SGD-008, 260m	482349, 9009573, 50S	Hornblende quartz diorite	6.0	2.4	28
Nangka, Bat	u Hijau District, Sumi	bawa				
NAF-01	BND-002, 660m	480358, 9011256, 50S	Diorite	5.0	1.1	12
NAF-02	BND-002, 265m	480347, 9011046, 50S	Quartz diorite porphyry	6.41	0.92	20
NAF-03	BND-002, 390m	480349, 9011108, 50S	Quartz diorite	5.7	1.3	14
Elang						
ELF-01	DLD-500, 1157m	541321, 9008979, 50S	Delta Tonalite	2.95	0.93	28
ELF-02	DLD-500, 1356m	541250, 9009097, 50S	Charlie Tonalite	2.55	0.21	28
Sepekat, Ela	ng District, Sumbawa	3				
SPF-06	DKD-016, 559m	543125, 9012526, 50S	Intrusive breccia	2.84	0.23	27

*Inherited zircons* 

Fifteen samples have inherited zircon grains, twelve of which have sufficient analysed grains to calculate an age on the older population (Fig. 5.5). After excluding analyses with high common Pb, three grains analysed from Java are Proterozoic to Paleozoic in age: Selogiri (SLG-02\_3, 303 Ma; SLG-02\_9, 608 Ma) and Tumpangpitu (UG012196\_5, 308 Ma; Fig. 5.6).



**Figure 5.5:** Concordia diagrams of weighted mean  $^{206}$ Pb/ $^{238}$ U ages from the eastern Sunda arc with bi-modal age distributions or inherited grains. All data are listed in Appendix B. Analyses not used in the age calculations are shown in black. Individual grain ages for inherited zircons in samples SLG-02 and LB032 are labelled in blue.

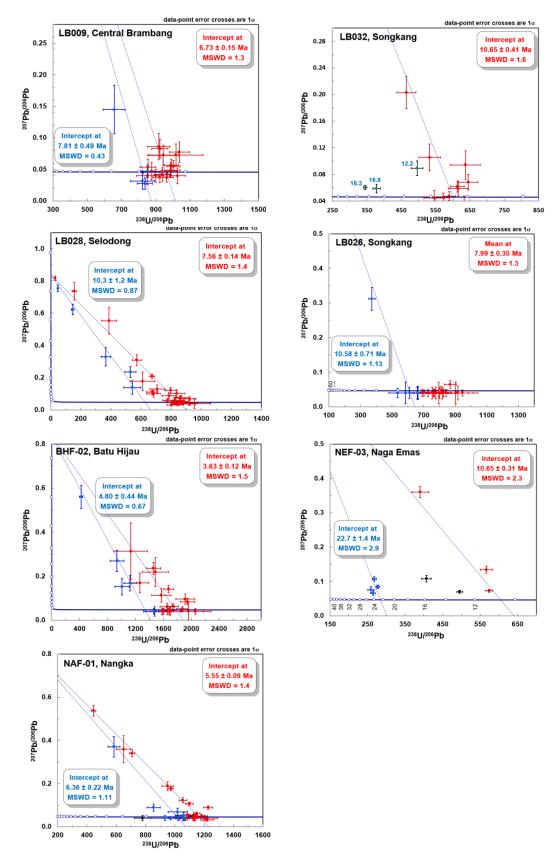
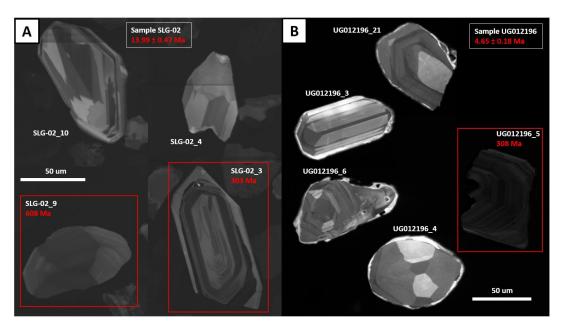


Figure 5.5: (Cont'd).



**Figure 5.6:** Representative cathodoluminescence images of zircons from samples SLG-02 and UG012196, with inherited grains and their ages highlighted in red.

### 5.4 – Zircon Hf isotopes

Results of zircon Lu-Hf isotope analyses of LA-ICP-MS U-Pb dated grains and corresponding calculated parameters are presented in Table 5.5. Grains were chosen on the basis of availability of a second laser spot ranging from 35 to 50 um. In total, 392 isotope analyses were collected from 33 samples with individual grain ages ranging from 30.1 to 1.6 Ma. Analyses from samples range from three to 23, with an average of 12 grains per sample. Fifteen samples from Java (175 analyses) yielded  $^{176}$ Yb/ $^{177}$ Hf and  $^{176}$ Lu/ $^{176}$ Hf values of 0.00844 to 0.25105 and 0.00038 to 0.00689, respectively, with  $\epsilon$ Hf (t) values ranging from 4.0 to 22.4. Ten samples from Lombok (133 analyses) yielded  $^{176}$ Yb/ $^{177}$ Hf and  $^{176}$ Lu/ $^{176}$ Hf values of 0.01639 to 0.22079 and 0.0059 to 0.00737, respectively, with  $\epsilon$ Hf (t) values ranging from 10.8 to 22.6. Eight samples from Sumbawa (85 analyses) yielded  $^{176}$ Yb/ $^{177}$ Hf and  $^{176}$ Lu/ $^{176}$ Hf values of 0.00959 to 0.22797 and 0.00034 to 0.00669, respectively, with  $\epsilon$ Hf (t) values ranging from 10.0 to 20.9.

**Table 5.5:** Zircon Lu-Hf isotope data averages for samples from the eastern Sunda arc. All data are listed in Appendix D.

Sample ID	Rock name	Age (Ma)	Error (2σ)	Yb <sup>176</sup> /Hf <sup>177</sup>	Lu <sup>176</sup> /Hf <sup>177</sup>	Hf <sup>176</sup> /Hf <sup>177</sup>	Hf <sup>178</sup> /Hf <sup>177</sup>	# of analyses	εHf (CHUR)	εHf (DM)
Kasihan, Ja	va									
PCT-01	Dacitic tuff	27.92	0.19	0.08857	0.00282	0.28320	1.46719	12	14.5	-1.5
Jerambah,	Trenggalek, Java									
JER-01	Quartz diorite porphyry	14.52	0.31	0.03886	0.00115	0.28324	1.46739	12	16.0	0.0
Singgahan,	Trenggalek, Java									
SING-02	Tonalite porphyry	14.64	0.26	0.03802	0.00119	0.28319	1.46731	11	14.5	-1.6
Kali Petang	, Trenggalek, Java									
TR-02	Quartz diorite porphyry	14.80	0.31	0.03589	0.00114	0.28324	1.46726	11	16.1	0.1
Sinawang, T	Tulungagung, Java									
SINA-01	Quartz diorite porphyry	24.43	0.25	0.09471	0.00253	0.28320	1.46714	12	14.6	-1.4
SINA-02	Quartz diorite porphyry	24.54	0.22	0.07495	0.00200	0.28321	1.46730	8	15.0	-1.0
SINA-04	Quartz diorite porphyry	24.72	0.31	0.07729	0.00230	0.28319	1.46726	10	14.4	-1.6
SINA-05	Quartz diorite porphyry	24.77	0.23	0.08311	0.00221	0.28321	1.46722	7	15.0	-1.1
Jember, Jav	⁄a									
JEM-02	Quartz diorite porphyry	6.94	0.11	0.05037	0.00165	0.28320	1.46732	13	14.8	-1.2
Tumpangpi	tu (pre-), Java									
UG012191	Diorite porphyry	5.94	0.15	0.06684	0.00200	0.28323	1.46729	9	15.8	-0.2
UG012198	Diorite porphyry	6.12	0.13	0.05615	0.00194	0.28318	1.46723	15	13.8	-2.2
Tumpangpi	tu (syn-), Java									
UG012185	Tonalite	4.34	0.14	0.04789	0.00131	0.28322	1.46729	7	15.5	-0.5
UG012190	Tonalite	4.48	0.15	0.03021	0.00098	0.28317	1.46724	12	13.7	-2.3
Tumpangpi	tu (post-), Java									
UG012184	Diorite porphyry	4.50	0.12	0.04057	0.00146	0.28315	1.46716	13	12.8	-3.2
UG012195	Diorite porphyry	4.53	0.15	0.03524	0.00120	0.28314	1.46718	12	12.7	-3.3

**Table 5.5:** (Cont'd).

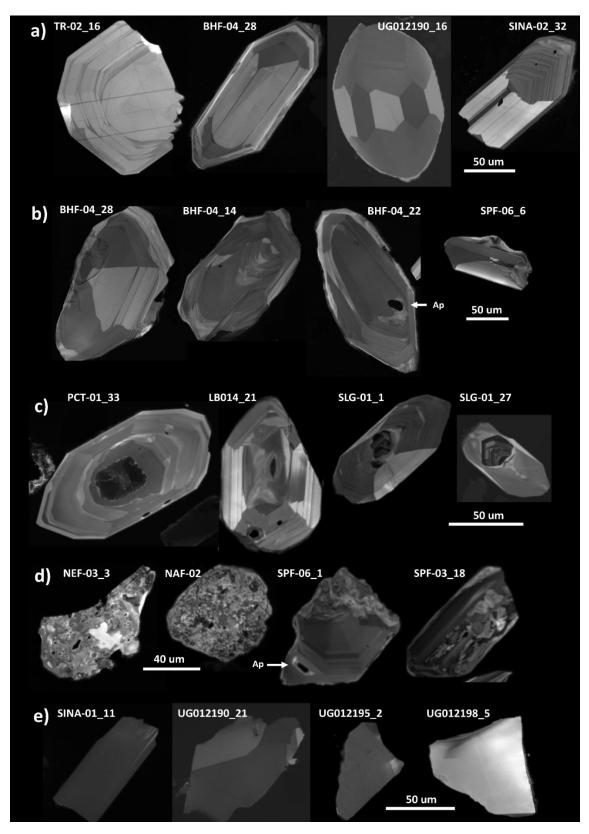
Sample ID	Rock name	Age (Ma)	Error (2σ)	Yb <sup>176</sup> /Hf <sup>177</sup>	Lu <sup>176</sup> /Hf <sup>177</sup>	Hf <sup>176</sup> /Hf <sup>177</sup>	Hf <sup>178</sup> /Hf <sup>177</sup>	# of analyses	εHf (CHUR)	εHf (DM)
NW Bramba	ang, Lombok									
LB014	Tonalite	6.96	0.19	0.04248	0.00143	0.28318	1.46726	10	13.8	-2.2
C. Bramban	ıg, Lombok									
LB024	Tonalite porphyry	7.06	0.13	0.04669	0.00156	0.28325	1.46731	23	16.3	0.3
LB036	Tonalite	7.00	0.2	0.04212	0.00129	0.28324	1.46729	6	16.0	0.0
LB041	Tonalite porphyry	6.71	0.12	0.03856	0.00131	0.28320	1.46723	6	14.7	-1.3
Montong Be	otek, Lombok									
LB018	Quartz diorite	7.51	0.13	0.05167	0.00154	0.28324	1.46727	19	16.2	0.2
LB028	Quartz diorite	7.56	0.14	0.05268	0.00174	0.28320	1.46730	12	14.8	-1.2
LB029	Quartz diorite porphyry	7.28	0.14	0.06019	0.00180	0.28324	1.46731	15	16.2	0.2
Belikat, Lor										
LB042	Diorite	7.20	0.21	0.03972	0.00147	0.28318	1.46716	7	14.0	-2.0
Songkang,	Lombok									
LB025	Quartz diorite porphyry	8.23	0.16	0.03259	0.00113	0.28321	1.46722	7	14.9	-1.1
LB026	Quartz diorite porphyry	7.99	0.3	0.02849	0.00089	0.28326	1.46723	3	16.7	0.7
Batu Hijau,	Sumbawa									
BHF-02	Intermediate tonalite	3.63	0.12	0.07448	0.00205	0.28320	1.46734	5	14.7	-1.4
BHF-04	Intermediate tonalite	3.75	0.1	0.04296	0.00146	0.28316	1.46720	19	13.4	-2.6
Naga Emas	, Sumbawa									
NEF-02	Hornblende quartz diorite	5.05	0.12	0.03701	0.00133	0.28319	1.46721	19	14.2	-1.8
Nangka, Su	mbawa									
NAF-01	Diorite	5.55	0.09	0.03465	0.00096	0.28325	1.46739	4	16.3	0.3
Elang, Sum	bawa									
ELF-01	Delta tonalite	2.64	0.04	0.07351	0.00261	0.28321	1.46716	9	15.2	-0.8
ELF-02	Charlie tonalite	2.75	0.07	0.04734	0.00175	0.28322	1.46725	10	15.6	-0.5
ELF-03	Echo tonalite	2.64	0.12	0.04705	0.00185	0.28316	1.46723	6	13.3	-2.7
Sepekat, Su	ımbawa									
SPF-05	Quartz diorite	2.95	0.13	0.03995	0.00126	0.28319	1.46722	7	14.4	-1.6

### 5.5 – Zircon mineral chemistry

Zircons from 77 rocks were analysed, covering a range of igneous rock types from across Java, Lombok, and Sumbawa (Fig. 5.7). All zircons were analysed from mineral separates mounted in polished epoxy pucks, and a total of 1,743 LA-ICP-MS trace element analyses were obtained. Grains analysed in this study ranged from ~30 um to ~300 um in length. All zircon trace element data is listed in Appendix C. Some form of zoning is common to almost all zircons (Fig. 5.8). Zoning characteristics, as well as xenocrystic cores, reabsorption regions, and overgrowths, oscillatory zoning and sector zoning are complex and vary from both intrusions within the same deposit/region, as well as intra-sample. Mineral inclusions in zircon are common, with apatite the most common but quartz, feldspar, and/or fluid inclusions were also observed.



**Figure 5.7:** Locations of prospects and deposits within the eastern Sunda arc with zircon samples (number of samples indicated in paratheses). Only one site did not have any zircon recovered (Malang). Satellite image obtained from Google Earth (Image © TerraMetrics, 2023).



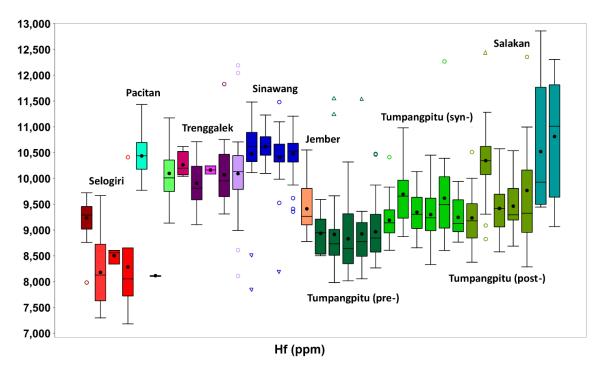
**Figure 5.8:** Representative CL images for zircons from the eastern Sunda arc, showing variations in: a) sector and oscillatory zoning, b) overgrowths, c) mottled cores with overgrowths, d) mottled grains and e) grains with weak or no zoning. Ap = apatite. Scale bars correspond to images in their respective row.

Hafnium values for Java zircons range between  $\sim$ 7,250 and 15,000 ppm (Fig. 5.9). Total REE ( $\Sigma$ REE) for Java zircons range from approximately 250 to 5,000 ppm. The majority of samples from Java have Chondrite-normalized Eu/Eu\* values ranging from  $\sim$ 0.50 to  $\sim$ 0.7 at Selogiri, Jarambah, Singgahan, Kali Petang, and majority of Tujuh Bukit samples (Fig. 5.10). Samples from Pacitan, Ponorogo, Kebo Gemulung, Sinawang, and one Singgahan sample had lower Eu/Eu\* values ranging from 0.10 to 0.35. There is little difference in Ce/Ce\* values across Java. They generally display a broad range in Ce/Ce\* values, ranging from  $\sim$ 0 to  $\sim$ 400 (Fig. 5.11).

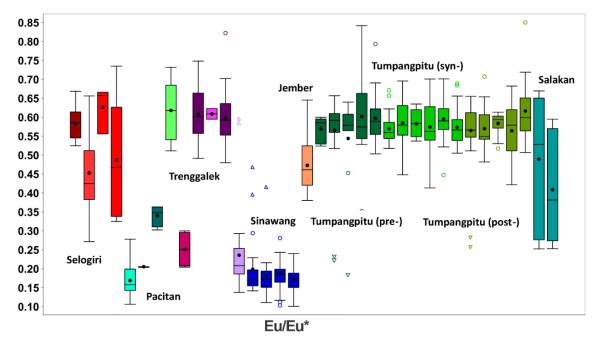
Hafnium values for Lombok zircons range between  $\sim$ 8,250 and 14,000 ppm (Fig. 5.12). Total REE ( $\Sigma$ REE) for Lombok zircons range from approximately 250 to 8,000 ppm. Samples from Brambang have highest Eu/Eu\* values ranging from  $\sim$ 0.45 to  $\sim$ 0.7 (Fig. 5.13). Selodong and Songkang have moderate Eu/Eu\* values, ranging from  $\sim$ 0.35 to  $\sim$ 0.6. Two Brambang samples (Brambang and Permula), Lembar, Plambik, and Kuta samples have lowest Eu/Eu\* values, ranging from  $\sim$ 0 to  $\sim$ 0.35. There is very little difference in Ce/Ce\* values across Lombok samples, but a large variation of values intra-sample (Fig. 5.14).

Hafnium values for Sumbawa zircons range between  $\sim$ 8,000 and 17,000 ppm (Fig. 5.12). Total REE ( $\Sigma$ REE) for Sumbawa zircons range from 150 to 4,000 ppm. There is significant variation of Eu/Eu\* values for Sumbawa zircons, both intra-deposit and regionally, with some samples (Batu Hijau, Naga Emas, Elang) ranging from 0.4 to 0.7, and others (Naga Emas, Nangka, Elang, Gerbang, Sepekat) ranging from 0.05 to  $\sim$ 0.5 (Fig. 5.13). There is little difference in Ce/Ce\* values, with the majority of Sumbawa samples falling

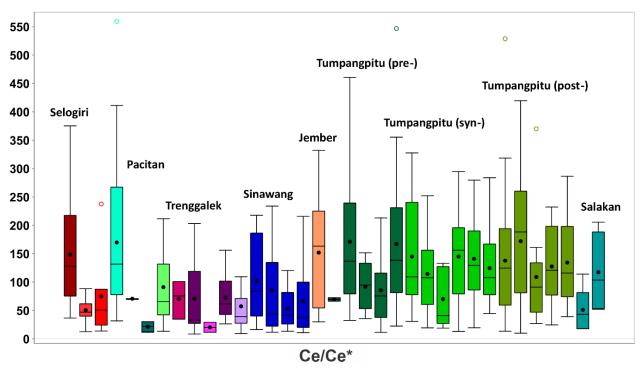
within 25 to 250, with some Gerbang, Elang, and Naga Emas samples having values up to  $\sim$ 500 (Fig. 5.14).



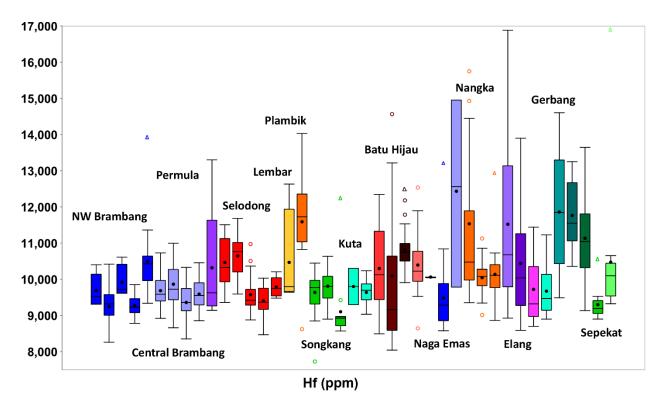
**Figure 5.9:** Box and whisker diagram showing the median, upper and lower quartiles and range of Hf contents in Java zircons.



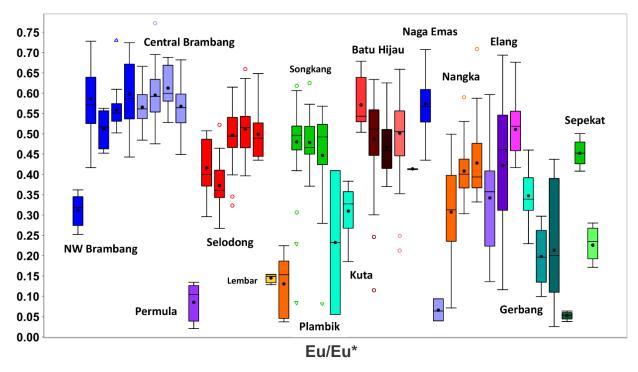
**Figure 5.10:** Box and whisker diagram showing the median, upper and lower quartiles and range of Eu/Eu\* in Java zircons.



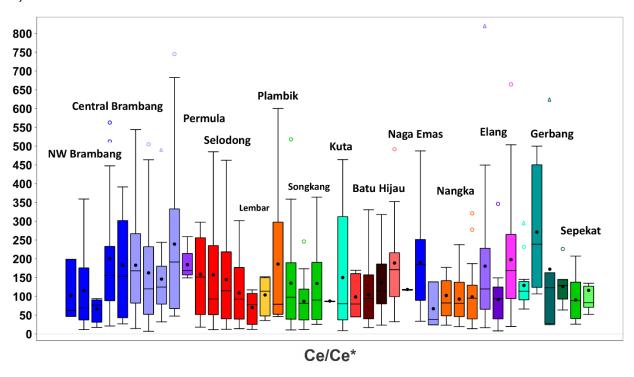
**Figure 5.11:** Box and whisker diagram showing the median, upper and lower quartiles and range of Ce/Ce\* in Java zircons.



**Figure 5.12:** Box and whisker diagram showing the median, upper and lower quartiles and range of Hf content in Java zircons.

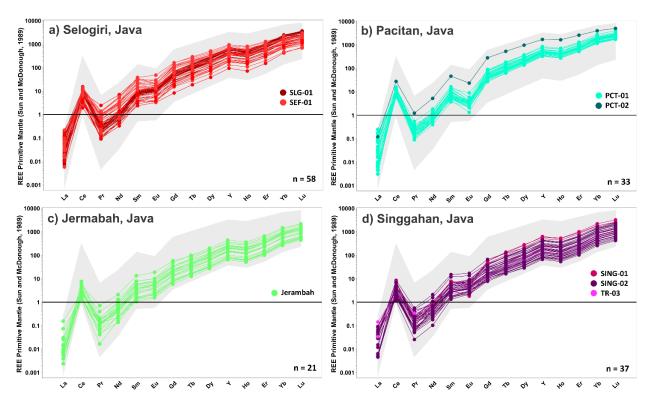


**Figure 5.13:** Box and whisker diagram showing the median, upper and lower quartiles and range of Eu/Eu\* in Java zircons.

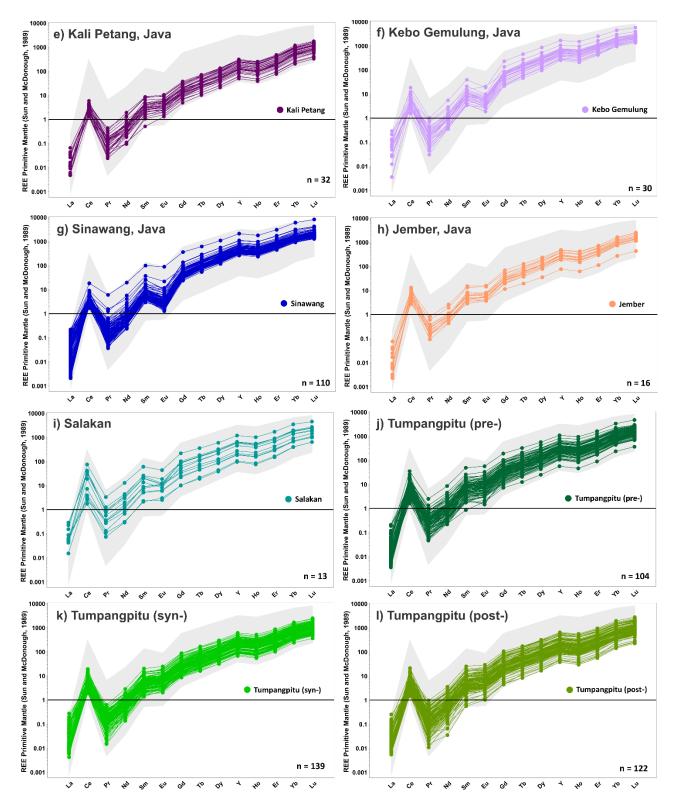


**Figure 5.14:** Box and whisker diagram showing the median, upper and lower quartiles and range of Ce/Ce\* in Java zircons.

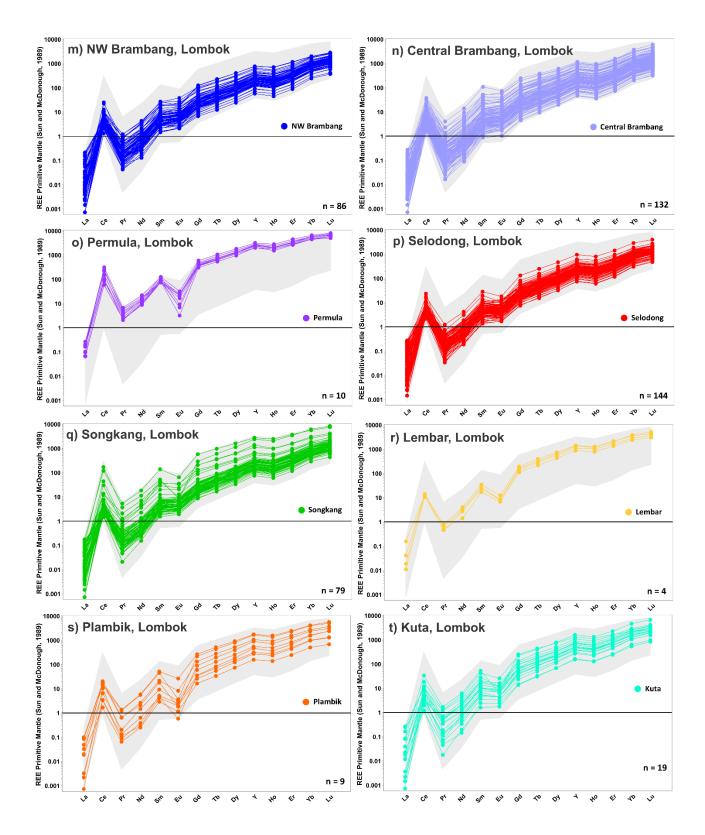
All samples have zircon primitive mantle-normalized REE patterns that are broadly typical of crustal zircon, with strong LREE depletion and HREE enrichment, with 5-6 orders of magnitude difference between Lan and Lun (Fig. 5.15). On Java, Selogiri, Jerambah, Singgahan, Kali Petang, and Jember samples have flat to positive Eu anomalies, with Pacitan, Kebo Gemulung, and Sinawang samples having negative Eu anomalies. Salakan, as well as all Tumpangpitu samples (both pre-, syn-, and post-mineralization) have flat to positive Eu anomalies. On Lombok, all patterns have similarly flat to positive Eu, except for the very negative Eu anomaly for Permula, and lesser at Lembar, Plambik, and Kuta. On Sumbawa, the majority of samples have similar flat to small negative Eu anomalies, except samples at Naga Emas (NEF-03), Gerbang (GBF-04), and Sepekat (SPF-03).



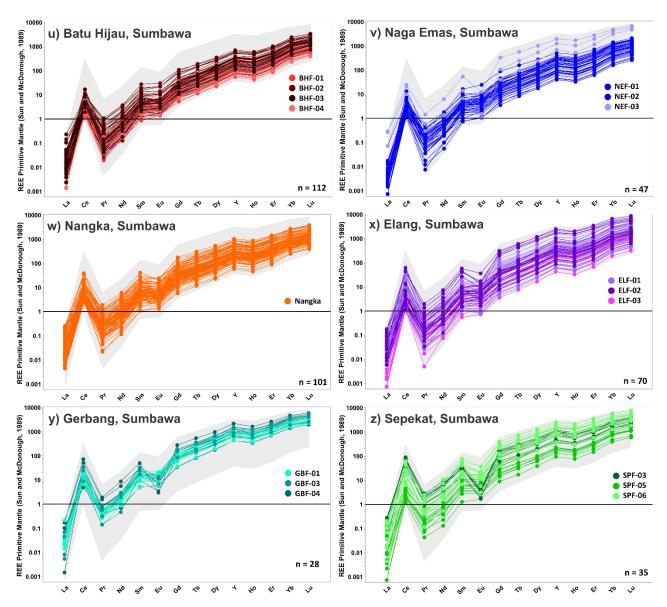
**Figure 5.15:** Primitive mantle-normalized REE patterns of zircon samples from the eastern Sunda arc. a) Selogiri, b) Pacitan, c) Jerambah, d) Singgahan, e) Kali Petang, f) Kebo Gemulung, g) Sinawang, h) Jember, i) Salakan, j) Tumpangpitu (pre-), k) Tumpangpitu (syn-), l) Tumpangpitu (post-), m) NW Brambang, n) Central Brambang, o) Permula, p) Selodong, q) Songkang, r) Lembar, s) Plambik, t) Kuta, u) Batu Hijau, v) Naga Emas, w) Nangka, x) Elang, y) Gerbang, z) Sepekat. Grey outline is field from all zircons in study. Normalizing values are from Sun and McDonough (1989).



**Figure 5.15:** (Cont'd).



**Figure 5.15:** (Cont'd).



**Figure 5.15:** (Cont'd).

# 5.6 – Apatite mineral chemistry

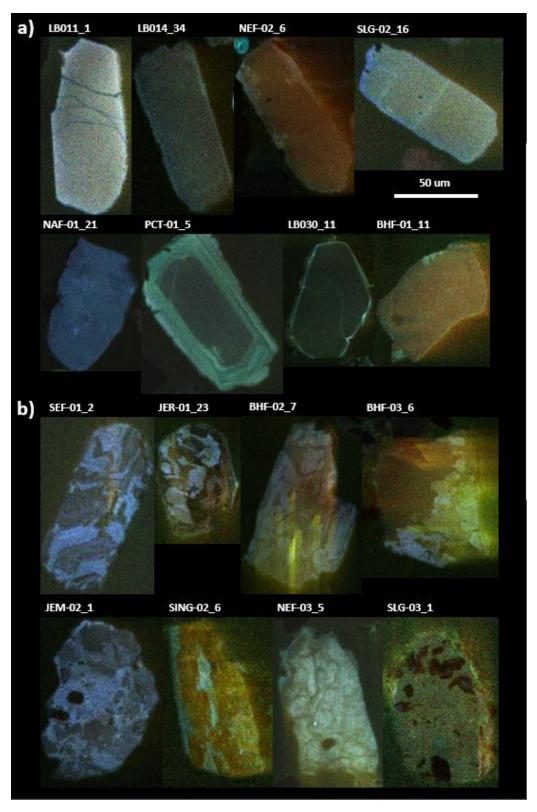
Apatite was analysed from 54 rock samples, covering a range of igneous rock types from across Java, Lombok, and Sumbawa (Fig. 5.16). All apatite were analysed from mineral separates mounted in epoxy pucks, and a total of 1,124 LA-ICP-MS trace element analyses

were obtained, as well as 1,062 corresponding EMPA analyses. Grains analysed in this study ranged from  $\sim$ 30 um to  $\sim$ 200 um. The full data are listed in Appendix C.

Some form of cathodoluminescence (CL) emission response is present in all apatite, with variations in brightness and colour as well as apatite texture (Fig. 5.17). These textures are often very complex, with some deposits/regions having a uniform colour, whereas others have two or more variations within, including altered and unaltered apatite within the same sample. Primary igneous apatite grains have homogenous colour/CL emission response as well as a typical elongate habit. Replacement apatite often display heterogeneous colour/CL emission response and have irregular habit. Some grains show evidence of partial replacement, such as grain BHF-03\_6, with primary apatite preserved in the top left and replacement apatite in the bottom left of the grain (Fig. 5.17b).

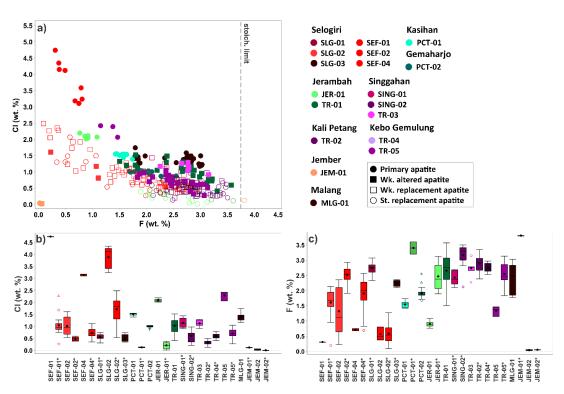


**Figure 5.16:** Locations of prospects and deposits within the eastern Sunda arc with apatite samples (number of samples indicated in parentheses). Five sites did not have any apatite recovered (Ponorogo, Sinawang, Salakan, and Tumpangpitu). Satellite image obtained from Google Earth (Image © TerraMetrics, 2023).

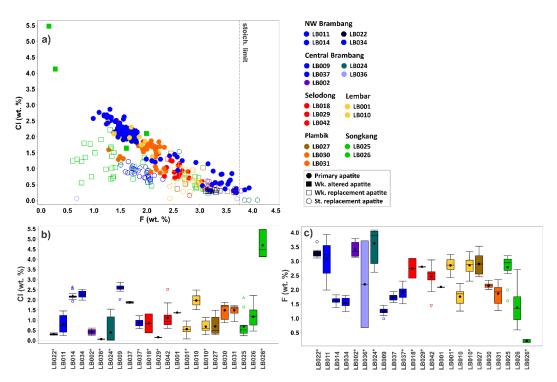


**Figure 5.17:** Summary of CL textures in apatite from samples from the eastern Sunda arc. a) Primary/unaltered apatite with strong variation in CL emission colour. b) Secondary/ replacement apatite with strong variation in both CL emission colour and texture. Note image BHF-03\_6 with primary apatite preserved in top left of grain.

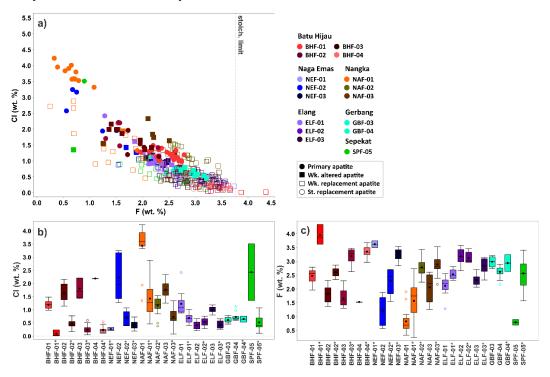
Nearly all analyses of F from the eastern Sunda arc are within the stoichiometric limit of F in apatite, with nine exceptions from 1,062 EMPA analyses. Throughout samples from the eastern Sunda arc, Cl and F contents in apatite generally show an inverse relationship (Figs. 5.18, 5.19, 5.20). The majority of replacement apatite has low to extremely low Cl contents (< 1.5 wt. %) and moderate to high F, with most replacement apatite plotting in the bottom right of the Cl-F diagrams. This is particularly evident with the Batu Hijau samples, all of which have both primary and secondary apatite analyses (Fig. 5.20b). Apatite from Jember are the only texturally primary apatite that have Cl content around detection limits (Fig. 5.18a). The majority of other primary apatite analyses have higher Cl contents, with 341 of 451 primary apatite analyses having greater than 1.0 wt. % Cl.



**Figure 5.18:** Halogen chemistry of Java apatites. a) F and Cl contents generally show an inverse relationship, with replacement apatite often high F, low Cl. b-c) Box and whisker diagrams showing the median, mean, quartiles, and ranges of Cl and F concentrations, with replacement apatite indicated by \* in sample ID. All data collected by EMPA.

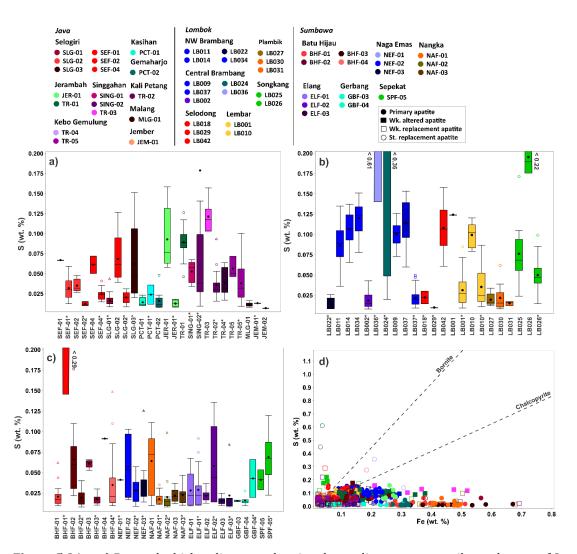


**Figure 5.19:** Halogen chemistry of Lombok apatites. a) F and Cl contents generally show an inverse relationship, with replacement apatite often high F, low Cl. b-c) Box and whisker diagrams showing the median, mean, quartiles, and ranges of Cl and F concentrations, with replacement apatite indicated by \* in sample ID. All data collected by EMPA.



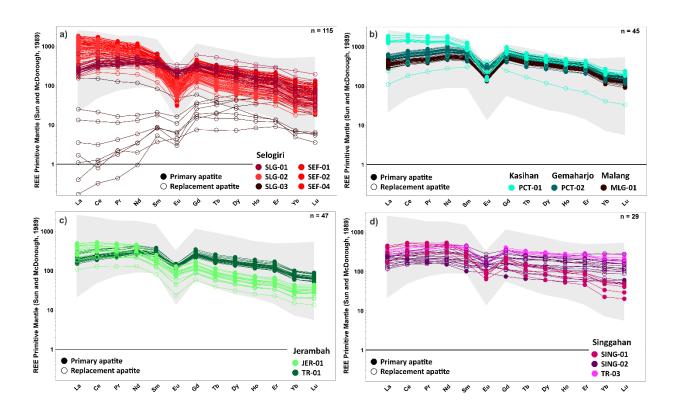
**Figure 5.20:** Halogen chemistry of Sumbawa apatites. a) F and Cl contents generally show an inverse relationship, with replacement apatite often high F, low Cl. b-c) Box and whisker diagrams showing the median, mean, quartiles, and ranges of Cl and F concentrations, with replacement apatite indicated by \* in sample ID. All data collected by EMPA.

Sulfur concentrations are often close to detection limits (0.01 wt. %), with the majority of all analyses having < 0.17 wt. % S (Fig. 5.21). Most replacement apatite have very low S contents (~<0.05 wt. %), except for a few rare analyses at Singgahan, Central Brambang and Batu Hijau (SING-02, LB036, LB024, BHF-01, BHF-04). These moderately high S analyses are likely due to small inclusions of sulfides, particularly bornite (Fig. 5.21d); however, in general the majority of apatite analyses throughout the eastern Sunda arc are devoid of sulfide inclusions.

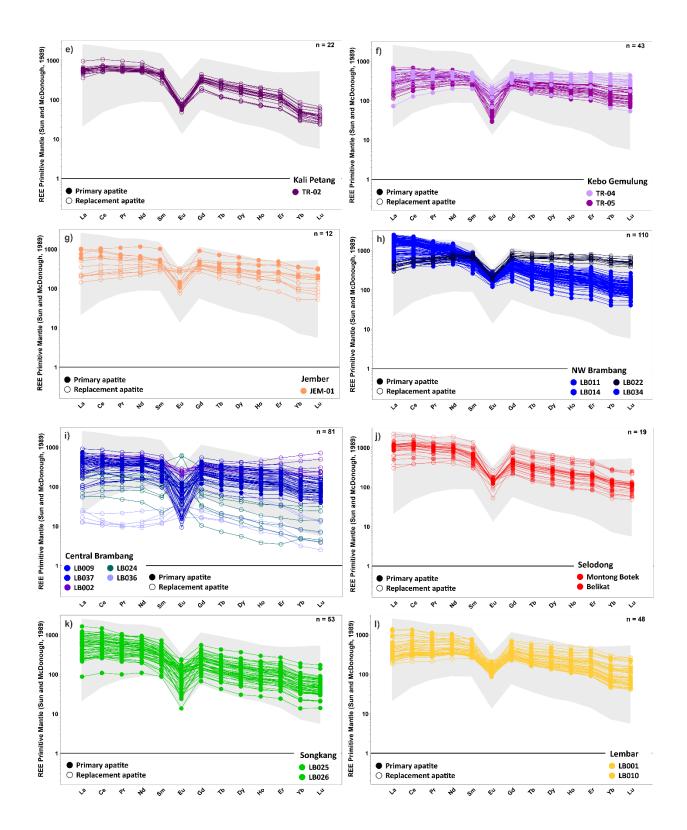


**Figure 5.21:** a-c) Box and whisker diagrams showing the median, mean, quartiles and range of S concentrations in apatites from Java, Lombok, and Sumbawa. d) S vs. Fe content. Some replacement apatite analyses have S:Fe ratios which could indicate small inclusions of sulfide minerals. All data collected by EMPA.

Chondrite normalized REE patterns of apatite from the eastern Sunda arc are variable, with most enriched in HREE and depleted in LREE and others displaying flat to m-shaped REE profiles (Fig. 5.22). Europium anomalies are variably pronounced, with Eu/Eu\* values for primary apatite ranging from 0.08 to 0.97. Some replacement apatite have negative Eu anomalies and REE profiles similar to primary counterparts within the same sample, and others have flat to very irregular REE profiles, occasionally with positive Eu anomalies.



**Figure 5.22:** Primitive mantle-normalized REE patterns of apatite samples from the eastern Sunda arc. a) Selogiri, b) Pacitan and Ponorogo regions, c) Jerambah, d) Singgahan, e) Kali Petang, f) Kebo Gemulung, g) Jember, h) NW Brambang, i) Central Brambang, j) Selodong, k) Lembar, l) Plambik, m) Songkang, n) Batu Hijau, o) Naga Emas, p) Nangka, q) Elang, r) Gerbang and Sepekat. Grey outline is field from all primary apatite in study. Primary and replacement apatite grains are indicated by closed and open symbols, respectively. Normalizing values are from Sun and McDonough (1989).



**Figure 5.22:** (Cont'd).

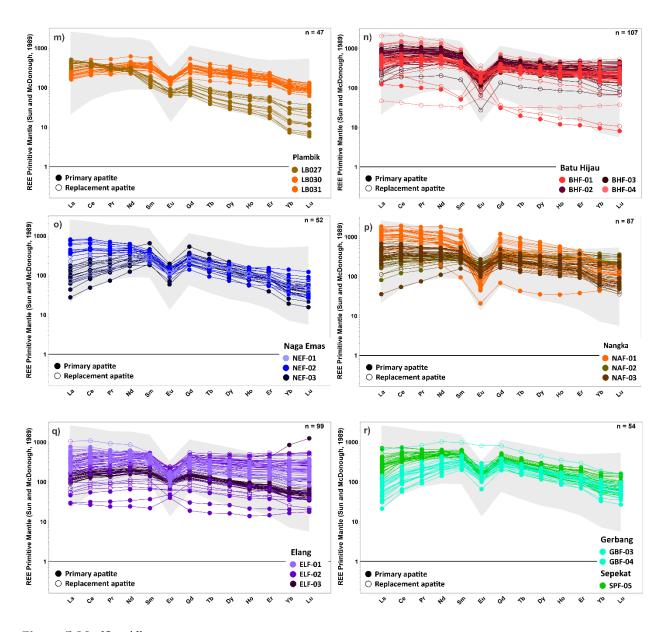


Figure 5.22: (Cont'd).

# 5.7 – Rutile mineral chemistry

Rutile from 67 rocks was analysed, covering a range of igneous rock types from across Java, Lombok, and Sumbawa (Fig. 5.23). All rutile were analysed from mineral separates mounted in epoxy pucks, and a total of 1,095 LA-ICP-MS trace element analyses were obtained, as well as 969 corresponding EMPA analyses. Grains analysed in this study

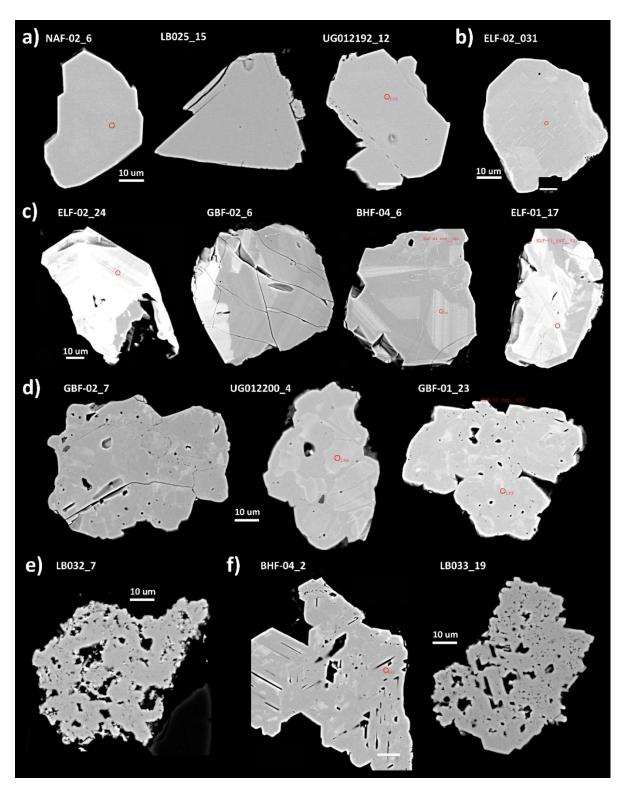


**Figure 5.23:** Locations of prospects and deposits within the eastern Sunda arc with rutile samples (number of samples indicated in parentheses). Four sites did not have any rutile recovered (Ponorogo, Kali Petang, Malang, and Lembar). Satellite image obtained from Google Earth (Image © TerraMetrics, 2023).

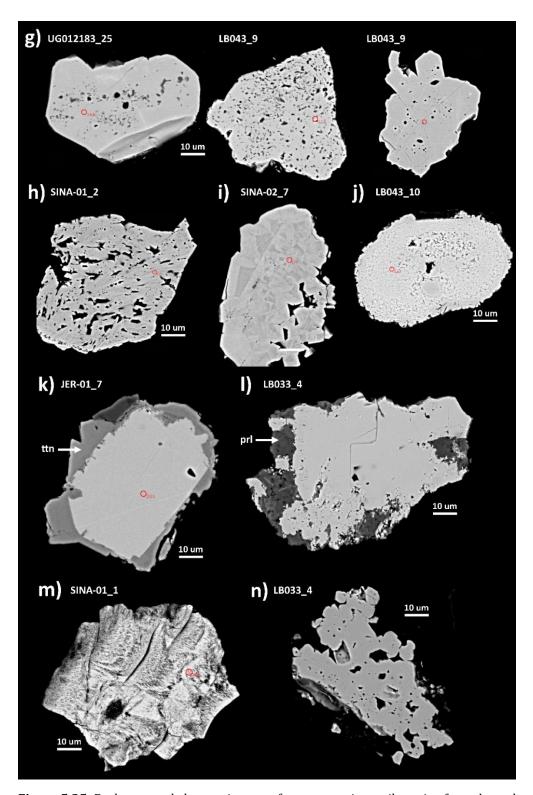
ranged from  $\sim \! 30$  um to  $\sim \! 1000$  um in length, with most grains closer to the smaller fraction. The full rutile mineral composition data are listed in Appendix C.

Rutile grain back-scattered electron (BSE) response and texture vary throughout the different deposits and prospects of the Sunda arc, as well as within the deposits and within samples. Rutile grain textures are summarized in Figures 5.24 and 5.25; however, many samples contain grains with two or more textures, or complex grains with several different textural features within. The example textures are listed in approximate declining abundance, with groups A to G the most observed throughout the dataset and groups H to N only occurring within 1 to 3 samples. Group A images are homogenous subhedral to euhedral grains. Group B are grains with cross-hatched exsolution lamellae, predominantly ilmenite (Fig. 5.24b). Exsolution lamellae of various thickness are common throughout the dataset. Group C consist of oscillatory and sector zoned rutile (Fig. 5.24c). Zoning varies

significantly in both style (thickness, regularity, and location within the grain) and brightness of the BSE response within the group and is often discontinuous. Intensely zoned rutile grains are rare; however, bright sections or sectors within grains are more common. Textures in group C are always accompanied by grains in the same sample that are homogenous gray or another dominant texture. Group D are grains with patchy and irregular 'zoning' or wispy regions with brighter BSE response. These grains are anhedral and often include minor void space, as well as an appearance of clustering or intergrowth of several rutile grains into one. Group E are grains with corroded grain boundaries or interiors, often anhedral with void space and partial mineral replacements. Group F are euhedral to subhedral grains that display triangular rutile cleavage planes often as triangular or elongate bladed voids. Group G are grains with varying amounts of inclusions, particularly of silicate minerals and circular void-space. Group H are grains consisting of aggregated bladed rutile. This group is only present at Sinawang, Tulungagung. Group I are mosaic texture rutile consisting of an interlocking growth pattern that grades in size from one side of grains to the other. This group is only present at Sinawang, Tulungagung. Group I are masses of corroded or needle-like rutile. This group is only present at Belongas, Selodong. Group K are rutile with titanite overgrowths. Group L are corroded rutile grains that are partially replaced by other mineral species, often pyrophyllite. Group M are feathery or fibrous rutile. This group is only present at Sinawang, Tulungagung. Group N are blebby aggregates of several smaller grains, often with irregular void space (Fig. 5.25).



**Figure 5.24:** Backscattered electron images of representative rutile grains from throughout the eastern Sunda arc showing variations in textures. Brighter areas reflect higher mean atomic number. a) Homogenous grains (Nangka, Songkang, Tumpangpitu). b) Ilmenite exsolution texture (Elang). c) Oscillatory and sector zoning (Elang, Gerbang, Batu Hijau). d) Irregular patchy zoning (Gerbang, Salakan). e) Corroded grains (Songkang). f) Lattice-bladed texture with voids (Batu Hijau, Plambik). Red circles are EMPA analysis locations.

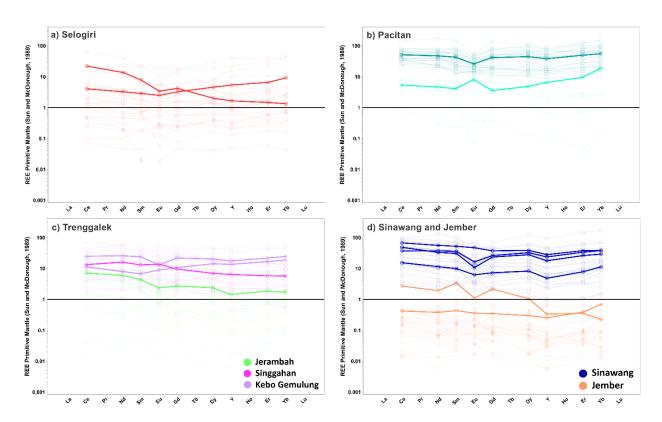


**Figure 5.25:** Backscattered electron images of representative rutile grains from throughout the eastern Sunda arc showing variations in textures. Brighter areas reflect higher mean atomic number. g) Inclusion-rich rutile (Tumpangpitu, Belongas). h) Aggregated bladed rutile (Sinawang). i) Mosaic texture (Sinawang). j) Corroded/needle rutile (Belongas). k) Rutile with titanite overgrowths. l) Corroded rutile with pyrophyllite intergrowths. m) 'Feathery' rutile (Sinawang). n) Blebby aggregates. Red circles are EMPA analysis locations.

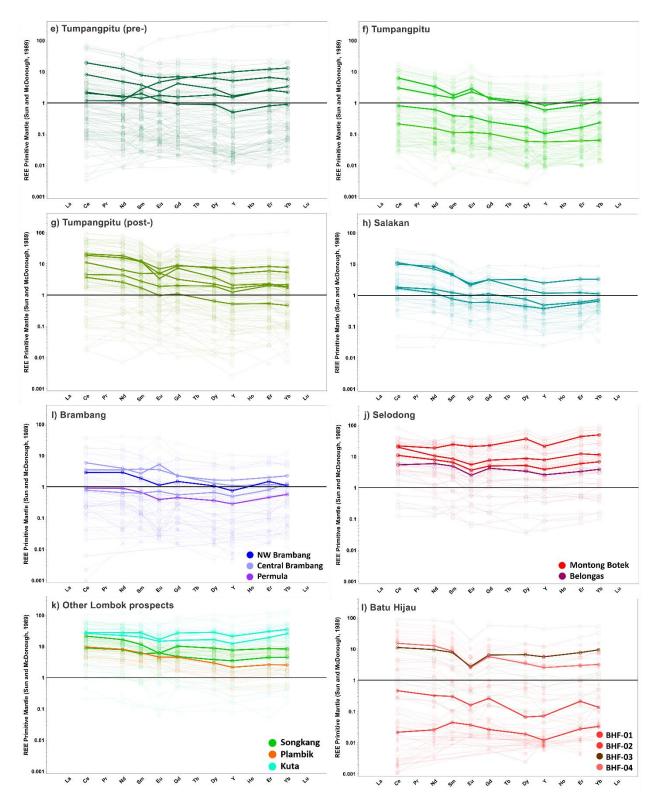
Most rutile grains throughout the eastern Sunda arc have Cr, Cu, and Mo concentrations below or close to detection limits (<0.003 wt. %; Fig. 5.28). Copper concentrations are extremely low throughout the dataset, with only five samples with Cu values greater than 0.05 wt. % (Batu Hijau – BHF-02; Kebo Gemulung – TR-05; Sinawang – SINA-01, SINA-02). Molybdenum concentrations are extremely low, with most analyses being below detection limits of 0.007 wt. %. Only 152 of 969 EMPA analyses had measurable concentrations of Mo, with most being at or close to detection limits, and the majority of those occurring in grains at Tumpangpitu and to a lesser extent Batu Hijau. Tumpangpitu samples have Mo concentrations up to ~0.025 wt. % and Salakan up to 0.035 wt. %.

Heavy elements (W, Ta, Nb, Sn) as well as Fe and V are often highly variable within rutile from the eastern Sunda arc (Figs. 5.29, 5.30). Tungsten concentrations range over five and a half orders of magnitude, from 1.7 ppm at Nangka, to 49,561 ppm at Elang. Also common is high variance intra-sample, with W values at Central Brambang (LB002) ranging from 8.9 ppm to 11,314 ppm. Vanadium and Fe, similar to W, show elevated concentrations but less variation. Vanadium ranges from ~60ppm to 10,500 ppm, and Fe concentrations ~1,000 ppm to 100,000 ppm. As with W, there are often high variations in V and Fe content intra-sample. Tantalum, Sn, and Nb concentrations are generally lower than W, V, and Fe, with majority of Ta values less than 100 ppm, majority of Sn and Nb values less than 1000 ppm, one or two orders of magnitude less than Fe, W, and V maximum concentrations.

Primitive mantle-normalized REE patterns of rutile are often highly erratic, both throughout the dataset, within deposits/sites, and intra-sample (Fig. 5.26). Flat to slightly depleted HREE are the most common pattern, with positive or negative Eu anomalies of various intensities (e.g., Pacitan, Tumpangpitu, Salakan, Songkang, Batu Hijau). Normalized REE values are often less than 100 with most less than 10, with few exceptions in sites or individual analyses.



**Figure 5.26:** Primitive mantle-normalized REE patterns of rutile samples from the eastern Sunda arc. Median sample values are displayed as bold line. Normalizing values are from Sun and McDonough (1989).



**Figure 5.26:** (Cont'd).

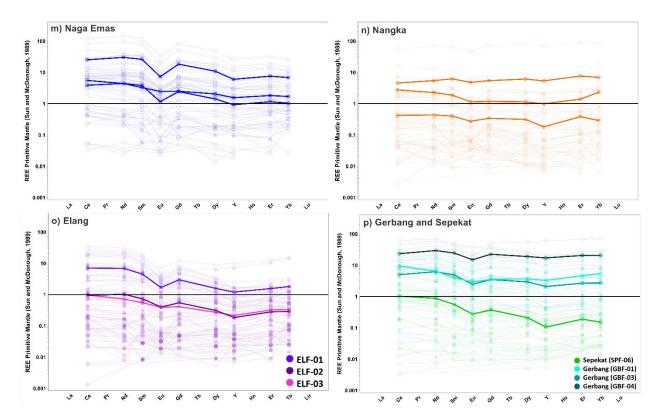
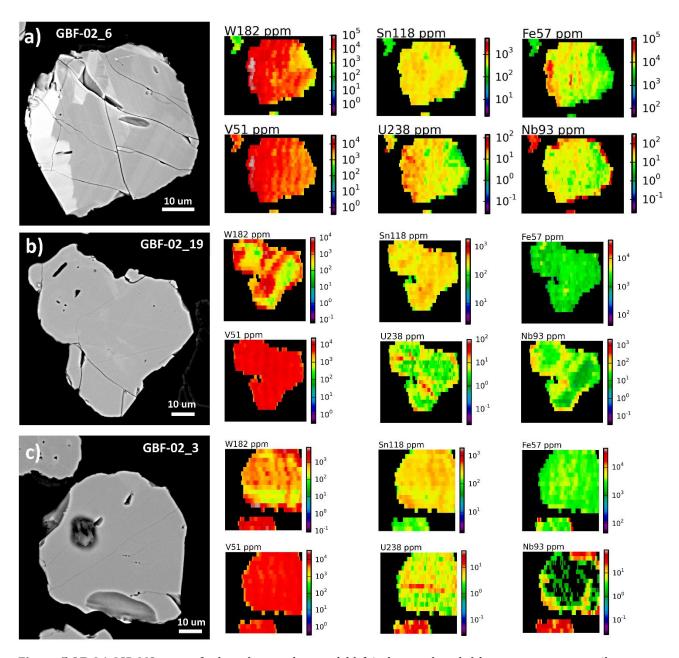


Figure 5.26: (Cont'd).

Six rutile laser maps were generated from a mineralized, intermediate argillicaltered tonalite at Gerbang (Elang District, Sumbawa). Sample GBF-02 has multiple different rutile grain textures: oscillatory/sector zoning, splotchy zoning, and homogenous gray rutile (Fig. 5.27). Fine oscillatory zoning in BSE in rutile is tied to W concentrations, with the brightest zones having up to 10 wt. % W. Oscillatory zoned rutile are often W-rich and Nb-poor (e.g., GBF-02\_6), with irregular/splotchy zoned rutile (e.g. GBF-02\_7) often displaying moderate W and increased Nb, although Nb concentrations are several orders of magnitude less than W. Homogenous gray rutile show relatively elevated W content (up to ~1,500 ppm), however show no BSE response. Grain size is often too small within imaged grains to show changes within fine-scale zonation in BSE. All rutile LA-ICP-MS maps are included in Appendix F.



**Figure 5.27:** LA-ICP-MS maps of select a) strongly zoned, b) faintly zoned, and c) homogenous gray rutile grains from syn-mineralization Charlie tonalite, Gerbang, Elang district, Sumbawa (GBF-02). Note differences in magnitude of colour scales between grains.

# 5.8 – Titanite mineral chemistry

Titanite from 26 samples were analysed, covering a range of igneous rock types from across Java, Lombok, and Sumbawa (Fig. 5.28). All titanite were analysed from

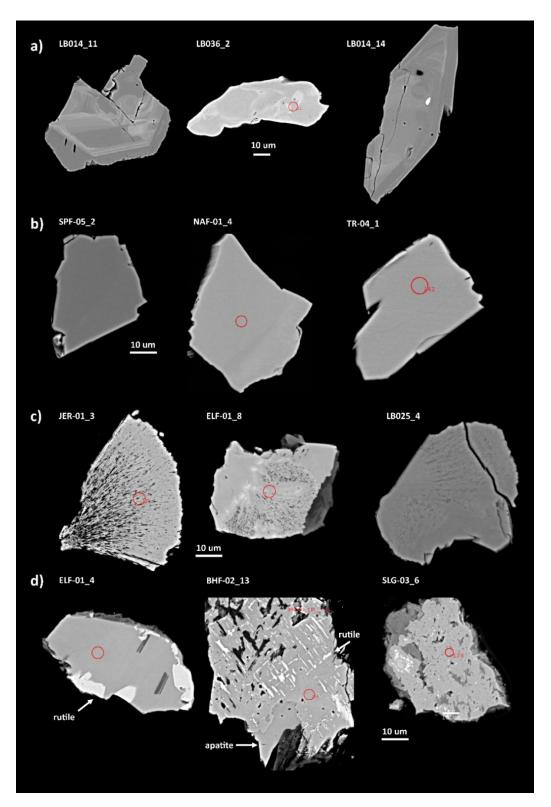
mineral separates mounted in epoxy pucks, and a total of 282 LA-ICP-MS trace element analyses were obtained, as well as 203 corresponding EMPA analyses. The full dataset of titanite LA-ICP-MS and EMPA analyses are listed in Appendix C.



**Figure 5.28:** Locations of prospects and deposits within the eastern Sunda arc with titanite samples (number of samples indicated in parentheses). Ten sites did not have any titanite recovered (Pacitan, Ponorogo, Malang, Jember, Salakan, Tumpangpitu, Lembar, Plambik, Kuta, and Gerbang). Satellite image obtained from Google Earth (Image © TerraMetrics, 2023).

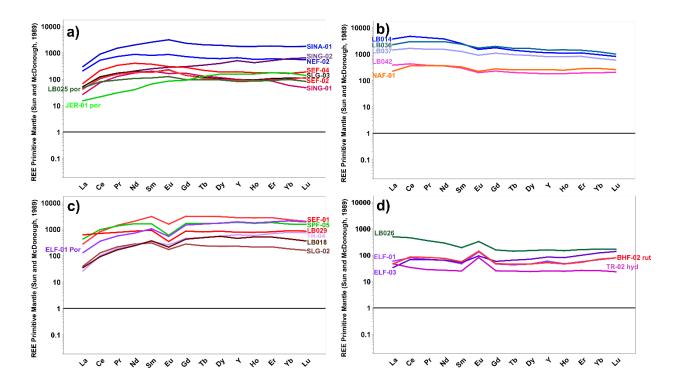
The most common titanite grain textures from samples from the eastern Sunda arc are euhedral-subhedral magmatic grains, occasionally with oscillatory or patchy zoning in BSE (Fig. 5.29a-b). Several sites (Songkang, Jerambah, Elang, Batu Hijau) have secondary titanite containing very fine-grained void space (Fig. 5.29c). Other textures consist of partial rutile replacement, corroded/altered grains with mineral intergrowths (Fig. 5.29d).

Mean primitive mantle normalized REE patterns of titanite from the eastern Sunda arc show four dominant patterns: 1) depleted LREE to flat HREE with no Eu anomaly, 2)



**Figure 5.29:** Backscattered electron images of representative titanite grains from throughout the eastern Sunda arc showing variations in textures. (a) Magmatic euhedral to subhedral titanite with oscillatory or patchy zoning in BSE. (b) Magmatic homogenous textured titanite. (c) 'Porous' textured secondary or altered titanite. (d) Inclusion-rich or altered titanite, including replacement by rutile; rutile inclusions and corroded/altered grains. Red circles are locations of EMPA analyses.

slightly enriched LREE to flat HREE with a subtle negative Eu anomaly, 3) depleted LREE to flat HREE with a strong negative Eu anomaly, and 4) flat REE trend with a strong positive Eu anomaly (Fig. 5.30).



**Figure 5.30:** Mean Primitive mantle normalized REE patterns of titanite samples from the eastern Sunda arc. a) Depleted LREE to flat HREE pattern with no Eu anomaly. b) Slightly enriched LREE to flat HREE with subtle negative Eu anomaly. c) Depleted LREE to flat HREE with strong negative Eu anomaly. d) Flat REE pattern with strong positive Eu anomaly. Por = porous texture. Rut = partial rutile replacement. Hyd = hydrothermal/altered titanite. Normalizing values are from Sun and McDonough (1989).

Most titanite grains throughout the eastern Sunda arc have Cr and Sr concentrations below or close to detection limits (< 0.005 wt. %). Fluorine concentrations range from 0 to 5 wt. %, with altered titanite at Singgahan (SING-02) and Songkang (LB025) having the highest contents, with 3.5 to 5 and 3 to 4 wt. % F, respectively. Magmatic grains with strong zoning in BSE have the lowest F contents, with Selogiri (SLG-02), NW Brambang (LB014) and Central Brambang (LB036, LB037) all having analyses with less than 0.30 wt. % F.

## **Chapter 6: Discussion**

# 6.1 - Geochronology

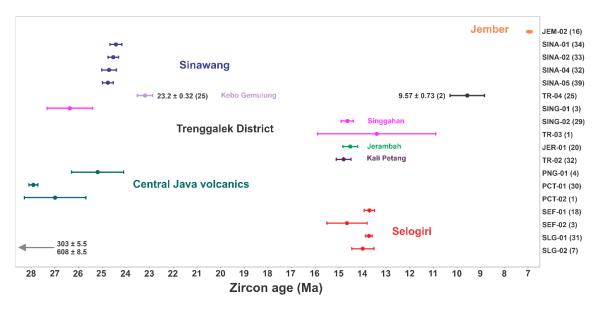
#### 6.1.1 – Introduction

Zircon U-Pb LA-ICP-MS geochronology was conducted across 32 porphyry and epithermal-related intrusions and volcanic rocks throughout the eastern Sunda arc. Fiftythree age determinations from this study are consistent with those of previously published ages: Selogiri (Maryono et al., 2018), Kasihan (JICA-JOGMEC, 2004), Singgahan (Arc Exploration, 2013), Jerambah (Arc Exploration, 2013), Sinawang (Arc Exploration, 2013; Harrison, 2017), Tumpangpitu (Harrison, 2017), Brambang (Maryono et al., 2018), Selodong (Maryono et al., 2018), Batu Hijau (Garwin, 2000; Maryono et al., 2018), and Elang (Garwin, 2000; Maryono et al., 2018). However, several of these sites only had one prior age and have been subsequently improved with a greater site sample density, specifically at Brambang (12 zircon U-Pb samples from NW Brambang, Central Brambang, and Permula). Sixteen sites had no previous geochronology studies, and details of these age determinations are presented in Table 5.2 (Chapter 5). The majority of rutile, apatite and titanite U-Pb geochronology samples contained high amounts of common Pb (Chapter 5) and thus are not discussed here in detail. In addition, hydrothermal/magmatic apatite and titanite were not discriminated prior to geochronology calculations, thus likely have a combination of magmatic and hydrothermal grains in age calculations, potentially further complicating generation of ages.

### 6.1.2 - Java geochronology

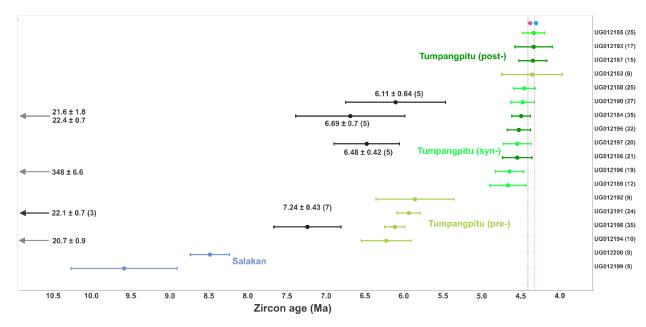
Eastern and central Java porphyries and HSE-related intrusives and volcanic rocks range from late Oligocene to late Miocene, with two main periods of magmatism  $\sim$ 28 to 24 Ma (Sinawang, Trenggalek, Pacitan/Ponorogo) and  $\sim$ 15.5 to 13 Ma (majority of Trenggalek units and Selogiri; Fig. 6.1). Trenggalek district intrusive phases at Singgahan, Jerambah, and Kali Petang are mostly  $\sim$ 14-15 Ma, however one tonalite porphyry sample at Singgahan is significantly older at 26.38  $\pm$  0.93 Ma. Kebo Gemulung yielded a bi-modal population with most analyses at 23.2  $\pm$  0.32 Ma and two younger analyses at 9.57  $\pm$  0.73 Ma. Selogiri has four samples that have ages ranging from 15.5 to 13.5 Ma. Jember is the only late Miocene or younger porphyry in eastern Java other than Tumpangpitu, with an intercept age of 6.94  $\pm$  0.11.

Tujuh Bukit district ages from this study range from late Miocene to early Pliocene ( $\sim$ 10.5 Ma at Salakan to  $\sim$ 4.5 Ma at Tumpangpitu; Fig. 6.2). All syn-mineralization tonalites



**Figure 6.1:** Zircon U-Pb age determinations from this study in Central and East Java. The number of zircons used in the age determinations are in parantheses. Secondary populations are indicated by black lines, inherited single grains are indicated by gray lines.

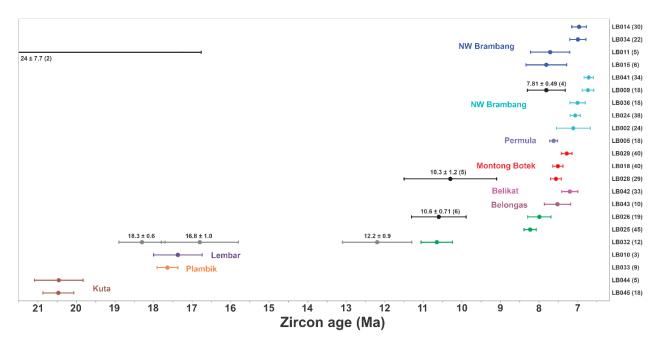
and post-mineralization diorites at Tumpangpitu overlap with each other within error as well as with an alunite  $^{40}$ Ar/ $^{40}$ Ar age of 4.385  $\pm$  0.049 and a Re-Os age of molybdenite of 4.303  $\pm$  0.018 Ma from Harrison (2017). Three syn- and post-mineralization phases have inherited zircons populations that are the same age as pre-mineralization samples, with inherited zircon populations ranging in age from 7.5 to 5.5 Ma. The previously undated Salakan propspect to the northwest of Tumpangpitu yielded ages of 8.49  $\pm$  0.25 and 9.59  $\pm$  0.68 Ma, which pre-date the syn-mineralization phases at Tumpangpitu by at least 3.3 million years. The pre-mineralization Tanjung Jahe diatreme breccia at the southern end of the Tujuh Bukit district was dated by Harrison (2017) between 8.78  $\pm$  0.22 Ma and 8.52  $\pm$  0.21 Ma (zircon U-Pb age determinations), overlapping the emplacement age of the Salakan tonalites (this study).



**Figure 6.2:** Zircon U-Pb age determinations from this study from the Tumpangpitu porphyry and Salakan porphyry prospect within the Tujuh Bukit district, East Java. The number of zircons used in age determinations are in parantheses. Older populations are indicated by black lines, inherited single grains are indicated by gray lines. Purple and blue dots are  $^{40}$ Ar/ $^{39}$ Ar age of alunite (4.385 ± 0.049 Ma) and Re-Os age of molybdenite (4.303 ± 0.018 Ma), respectively, from Harrison (2017) (error bars are obscured by dots).

## 6.1.3 – Lombok geochronology

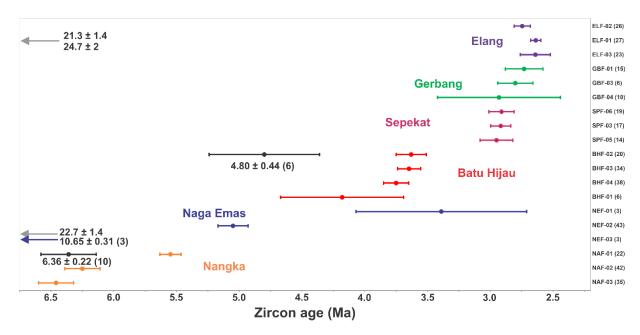
Syn-mineralization intrusive phases at NW Brambang range from 7.20 to 6.77 Ma, with two earlier phases at  $7.71 \pm 0.51$  and  $7.81 \pm 0.53$  Ma (LB011, LB015; Fig. 6.3). Central Brambang syn-mineralization samples are slightly younger and range from 7.20 to 6.58 Ma. Quartz diorite porphyry sample LB009 at Central Brambang has an inherited zircon population of the same age as earlier phases LB011 and LB015 at NW Brambang (7.81 ± 0.49). The barren prospect of Permula to the east of Central Brambang yielded a premineralization age of  $7.62 \pm 0.10$  Ma, similar to other pre-mineralization phases within Brambang. Selodong syn-mineralization intrusions at Montong Botek, Belikat, and Belongas range from 7.86 to 6.99 Ma. Songkang syn-mineralization sample LB032 yielded an age of  $10.65 \pm 0.41$  Ma with Songkang quartz diorite porphyry samples (LB025, LB026) being younger at  $8.23 \pm 0.16$  and  $7.99 \pm 0.30$  Ma, respectively. Sample LB026 at Songkang and LB028 at Selodong have similar older inherited zircon populations that match with LB032, at  $10.60 \pm 0.71$  and  $10.3 \pm 1.2$  Ma, respectively. Porphyry prospects Lembar and Plambik yielded ages of 17.64  $\pm$  0.27 and 17.37  $\pm$  0.63 Ma, respectively. Sample LB032 at Songkang contained single inherited zircons at  $18.3 \pm 0.6$  and  $16.8 \pm 1.0$  Ma, roughly overlapping with Lembar and Plambik prospects. Kuta yielded the oldest ages for intrusive units on Lombok at  $20.47 \pm 0.40$  and  $20.46 \pm 0.63$  Ma (Fig. 6.3). Plambik, Lembar, and Kuta had no prior age determinations and are the first reported early Miocene porphyry systems on Lombok.



**Figure 6.3:** Zircon U-Pb age determinations from this study from Lombok. The number of zircons used in age determinations are in parantheses. Older populations are indicated by black lines, inherited single grains are indicated by gray lines.

## 6.1.4 – Sumbawa geochronology

The Charlie and Delta tonalites (ELF-02, ELF-01) at Elang are the earliest phases associated with mineralization, at  $2.75 \pm 0.07$  and  $2.64 \pm 0.04$  Ma, respectively (Fig. 6.4). Echo tonalite (ELF-03) is syn-late mineralization at  $2.64 \pm 0.12$  Ma. The Gerbang tonalite and quartz diorite porphyry samples overlap within error of the Elang samples. The Sepekat prospect northeast of Elang yielded U-Pb age determinations that range from 3.01 to 2.81 Ma, which predates the syn-mineralization phases at Elang. Main syn-mineralization phases at Batu Hijau range in age from 4.67 to 3.51 Ma, similar to previous ages of Garwin (2000) and Maryono et al. (2018). The Naga Emas diorites (NEF-01, NEF-03) yielded U-Pb age determinations of  $3.39 \pm 0.68$  and  $10.65 \pm 0.31$ , respectively.



**Figure 6.4:** Zircon U-Pb age determinations from this study from Sumbawa. The number of zircons used in age determinations are in parantheses. Older populations are indicated by black lines, inherited single grains are indicated by gray lines.

hornblende quartz diorite porphyry (NEF-02) has an age of  $5.05 \pm 0.12$  Ma. Nangka quartz diorites have two late Miocene ages at  $6.25 \pm 0.14$  and  $6.46 \pm 0.14$  Ma, with the latest quartz diorite having an age of  $5.55 \pm 0.09$  Ma, with an inherited zircon grain population (10 zircons) that overlap with the previous two older ages (Fig. 6.4).

## 6.1.5 - Inherited zircons

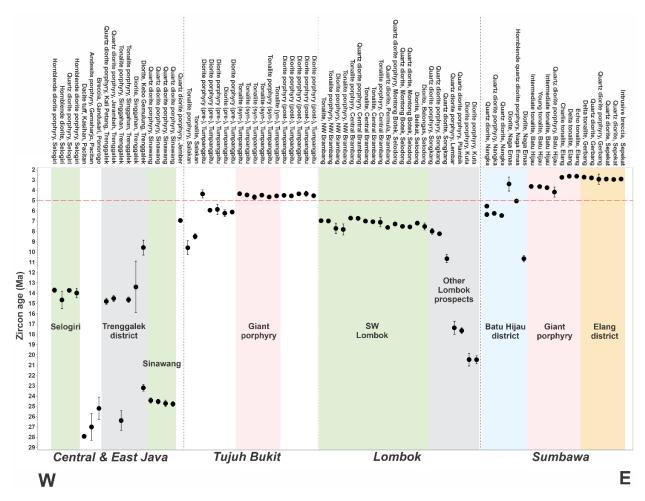
Six samples within the eastern Sunda arc have inherited late Oligocene to early Miocene ~22 Ma zircon grains (11 grains in total). The most likely explanation for the these inherited grains is that they are from late Oligocene to early Miocene volcanic and volcaniclastic rocks that dominate the main volume of rock throughout the islands of Java, Lombok, and Sumbawa (Maryono et al., 2018).

Smyth et al. (2007) documented inherited zircons in Cenozoic sedimentary and igneous rocks of East Java that range from Archean to Cenozoic in age, with age distributions interpreted to reflect different basement types at depth. Ordovician to Jurassic and Cretaceous zircons were restricted to Central Java and sedimentary sequences in the north, whereas older Archean and Proterozoic zircons were found within igneous samples that stretched along the Southern Mountains of east Java, extending east to Jember approximately 45 km northwest of Tujuh Bukit. Selogiri samples from this study yielded two significantly older inherited grains, one Neoproterozoic (608 ± 8.5 Ma) and one late-Carboniferous (303  $\pm$  5.5 Ma), the latter matching the findings of Maryono et al. (2018) that reported Carboniferous grains within Selogiri samples. They are also consistent with the work of Smyth et al. (2007) who reports Proterozoic and older grains in samples surrounding the Selogiri area. Two Cretaceous zircon grains ( $98.5 \pm 1.0$  and  $98.5 \pm 0.8$  Ma) were documented by Harrison (2017) in the Late Miocene Tanjung Jahe diatreme breccia (9.00 to 8.31 Ma) at Tujuh Bukit. Within this study, a syn-mineralization tonalite sample at Tumpangpitu yielded one Carboniferous grain (348 ± 6.6 Ma), supporting the findings from Harrison (2017) that the Tujuh Bukit district of east Java may be close to or on the margin of the Archean Gondwanan fragment that has been interpreted to underlie east Java (Smyth et al., 2007).

## 6.1.6 – Timing of magmatism along the eastern Sunda arc

Figure 6.5 summarizes the U-Pb zircon ages determined during this study from west to east along the eastern Sunda arc islands of Java, Lombok, and Sumbawa. The 5 Ma line on Figure 6.5 shows an appproximate cutoff between giant porphyry deposits (e.g.

Tumpangpitu, Batu Hijau, and Elang) and poorly-endowed porphyries (e.g. Trenggalek district, Selogiri, Selodong). On a district scale intrusive rock units young eastward, with Late Oligocene to Pliocene ages in Java, Early Miocene to Late Miocene ages in Lombok, and Late Miocene to Pliocene ages in Sumbawa. The absolute age data presented in this study reaffirms a consistent east-younging in eastern Java from Trenggalek (~15 Ma) through Salakan (~8.5 Ma) and Jember (~7 Ma), to the pre-mineralization phases (~6.5 Ma) and syn-mineralization phases (~4 Ma) at Tumpangpitu, similar to findings of Harrison (2017) and Maryono et al. (2018). Lombok, which only had previous age determinations at the



**Figure 6.5:** Compilation of zircon U-Pb age determinations from this study along the eastern Sunda arc. Datapoints display the youngest zircon population, with inherited grains and populations omitted. Data-point errors symbols are error symbols are  $2\sigma$ . Western-most samples at Selogiri and eastern-most samples at Elang are approximately 750 km apart.

western-most sites of Brambang and Selodong (Maryono et al., 2018), shows an opposite westward younging in SW Lombok from Kuta, Plambik and Lembar in the east (20-17.5 Ma) through Songkang (~10-8 Ma), Selodong (~7.5 Ma) and Brambang (~7 Ma). On Sumbawa, there is a general younging from west to east from Nangka (~6.5 Ma), Naga Emas (~5 and 3.5 Ma) to Batu Hijau (~4.5-3.5 Ma) and the Elang district (~3.0 to 2.5 Ma). Similar to Lombok, there is a local reversal in younging, with the northeast Sepekat prospect predating tonalite phases at Elang. The majority of intrusive phases on Sumbawa, including those from giant porphyries at Batu Hijau and Elang are Pliocene in age.

#### 6.2 - Zircon

## 6.2.1 – Introduction

Substitution of REE<sup>3+</sup> into zircon is easiest for REEs closest in size to Zr<sup>4+</sup>, favouring heavy REE (HREE) over light REE (LREE) (Burnham and Berry, 2012). Rare earth elements decrease in ionic radius with increasing atomic number and thus have chondrite-normalized concentrations that increase steadily over several orders of magnitude from La to Lu, excluding Eu and Ce which commonly display deficit and excess, respectively (Hoskin and Schaltegger, 2003; Burnham and Berry, 2012). This is due Ce and Eu being unusual among the REE in that they can exist in oxidation states other than 3+ in terrestrial conditions (Ce<sup>4+</sup> and Ce<sup>3+</sup>; Eu<sup>2+</sup> and Eu<sup>3+</sup>). Cerium in the 4+ state is more compatible in zircon than other REE<sup>3+</sup> due to its similar ionic radius to Zr (Ce<sup>4+</sup> = 0.97 Å; Zr<sup>4+</sup> = 0.84 Å). Similarly Eu<sup>3+</sup> (1.07 Å) is more compatible than Eu<sup>2+</sup> (1.13 Å). Cerium<sup>4+</sup> can substitute directly for Zr<sup>4+</sup>, whereas other REE are primarily believed to substitute by the xenotime substitution of Zr<sup>4+</sup> + Si<sup>4+</sup>  $\leftrightarrow$  REE<sup>3+</sup> + P<sup>5+</sup> (Hoskin and Schaltegger, 2003). The Eu anomaly is

often quantified using the ratio of measured Eu and a 'normalized' Eu value based on neighbouring REEs of Sm and Gd, and is calculated as:

$$Eu/Eu^* = Eu_N / (Sm_N \times Gd_N)^{0.5}$$

where subscript 'N' denotes the use of chondrite-normalized values (Sun and McDonough, 1989). Similarly, the Ce anomaly may be estimated in the same way as Eu and its neighbouring REEs, and is calculated as:

$$Ce/Ce^* = Ce_N / (La_N x Pr_N)^{0.5}$$

However, the calculation of the Ce anomaly can be problematic due to the low abundance of LREE in zircon and La is often at, or near detection limits (Dilles et al., 2015). Ballard et al. (2002) proposed a method for calculating Ce<sup>4+</sup>/Ce<sup>3+</sup> based on the assumption that Ce in the melt and zircon is a sum of its two oxidation states. Due to the calculation of Ce<sup>4+</sup>/Ce<sup>3+</sup> relying on whole-rock composition, it has been excluded from this study due to the extensive alteration of the majority of samples.

### 6.2.2 – Zircon prospectivity indicators

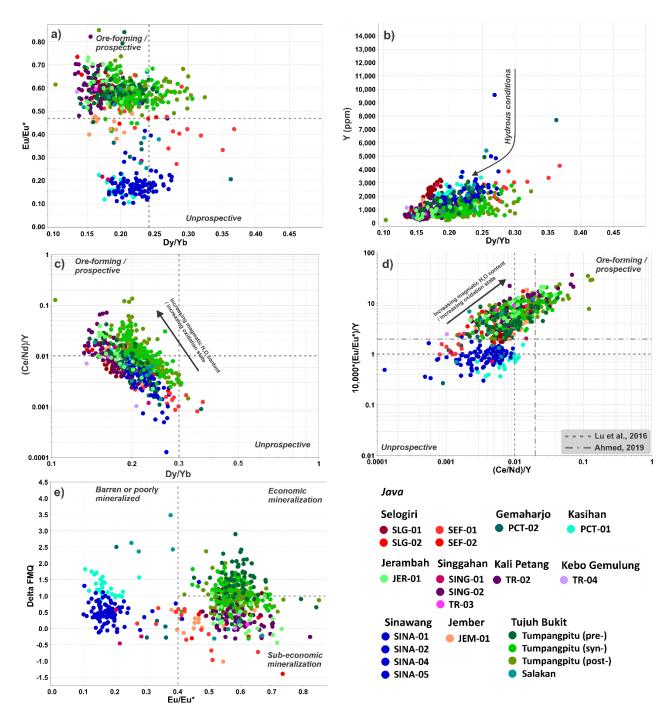
Zircon is a robust mineral that is resistant to effects of hydrothermal alteration and weathering, and commonly is a main phase in detrital heavy mineral concentrates (e.g., Kelley et al., 2011; Plouffe et al., 2016; Lee et al., 2021). As a result, it can be a useful tool for investigating properties and fertility/prospectivity of individual intrusions or regional exploration programs from stream sediments. Zircon trace element chemistry can record key information regarding primary magmatic conditions, including magmatic oxidation states from Eu and Ce anomalies and  $\Delta$ FMQ (Ballard et al., 2002; Hoskin and Schaltegger,

2003; Burnham and Berry 2012; Dilles et al., 2015; Loucks et al., 2020), zircon crystallization temperature from Ti (Watson and Harrison, 2005; Ferry and Watson, 2007), and evolving magma compositions from variations in Hf, Yb/Gd, Th/U and REE patterns (Claiborne et al., 2006; Wainwright et al., 2011; Dilles et al., 2015; Lee et al., 2017; Large et al., 2018). A number of studies have demonstrated the potential of zircon trace element chemistry in differentiating fertile and infertile porphyry suites. For example, Ballard et al. (2002) demonstrated that zircons from mineralized intrusions at the Chuquicamata-El Abra porphyry systems have elevated Eu/Eu\* (> 0.4) and Ce<sup>4+</sup>/Ce<sup>3+</sup> (> 300), whereas zircons from barren intrusions had lower levels. Similarly, Dilles et al. (2015) showed zircon Eu/Eu\* contents in mineralizing intrusions at Chuquicamata-El Abra, Chile, Butte, Montana, El Salvador, Chile, Yerington, Nevada, and Yanacocha, Peru have elevated and highly variable Eu/Eu\* values attributed to increased oxidation due to removal of reducing fluids. Lu et al. (2016) used Eu/Eu\* and other Eu and Ce anomaly proxies to differentiate fertile and barren suites from several porphyry deposits in Asia, Australia, and North America. They found that zircon Eu proxies are most useful in differentiating fertile and barren systems and Dy/Yb and Ce/Nd/Y moderately useful. In hydrous melts, early crystalizing amphibole preferentially incorporates Y and middle REE (e.g., Dy) over HREE (e.g., Yb; Davidson et al., 2007; Lu et al., 2016). As a result, fertile/prospective hydrous melts should display lower Dy/Yb ratios than drier, unprospective melts (Davidson et al., 2007; Richards and Kerrich, 2007; Lu et al., 2015, 2016). Lu et al. (2016) demonstrated that Ce/Nd can be used as a proxy for Ce/Ce\*, due to the difficulties in measuring La and Pr in zircon as described above. Recently, Loucks et al. (2020) presented a new method of calculating relative oxygen fugacity ( $\Delta$ FMQ) of magma at zircon crystallization using ratios

of Ce, U and Ti without determination of crystallization temperature, pressure, or parental melt composition as was necessary with previous oxybarometer methods (e.g.,  $Ce^{4+}/Ce^{3+}$ , Ballard et al., 2002).

Java zircons from Tumpangpitu, Selogiri, Trenggalek district (Jerambah, Singgahan, Kali Petang, Kebo Gemulung), and Jember display prospective high Eu/Eu\* ( $\sim$  > 0.4) and low Dy/Yb (< 0.3) compared to Sinawang and Pacitan samples with lower Eu/Eu\* (Fig. 6.6a). All Java samples have low Y and low Dy/Yb ( $\sim$  < 0.3) indicating hydrous conditions and partially overlap with (Ce/Nd)/Y vs. Dy/Yb prospective field (Fig. 6.6b-c). All Java zircon samples except for Sinawang and Pacitan show an ore-forming/prospective signature in 10,000\*(Eu/Eu\*)/Y > 2 (of Ahmed, 2019) with a range of Ce anomaly (Ce/Nd)/Y of  $\sim$  0.05 to 0.1 (Fig. 6.6d). Sinawang and Pacitan zircons have distinctly lower 10,000\*(Eu/Eu\*)/Y of < 2 compared to the rest of the suite at Tumpangpitu, Trenggalek, Jember and Selogiri. Tumpangpitu zircons are the only Java site with high Eu/Eu\* (>0.4) combined with a moderately oxidized signature of  $\Delta$ FMQ of 0.0 to +2.5 (Fig. 6.6e). Trenggalek, Selogiri, and Jember zircons show similarly high Eu/Eu\* of > 0.4 but are moderately reduced with  $\Delta$ FMQ values of 0.5 to -1.0.

Lombok zircons from Brambang (NW and Central), Selodong, and Songkang display prospective high Eu/Eu\* ( $\sim$  > 0.4) and low Dy/Yb (< 0.3) compared to Kuta, Lembar, Plambik and Permula (Brambang) samples with lower Eu/Eu\* (Fig. 6.7a). The majority of Lombok zircons have low Y and low Dy/Yb (< 0.3) and partially overlap with the (Ce/Nd)/Y vs. Dy/Yb prospective field (Fig. 6.7b-c). 'Barren' Permula from Brambang is the



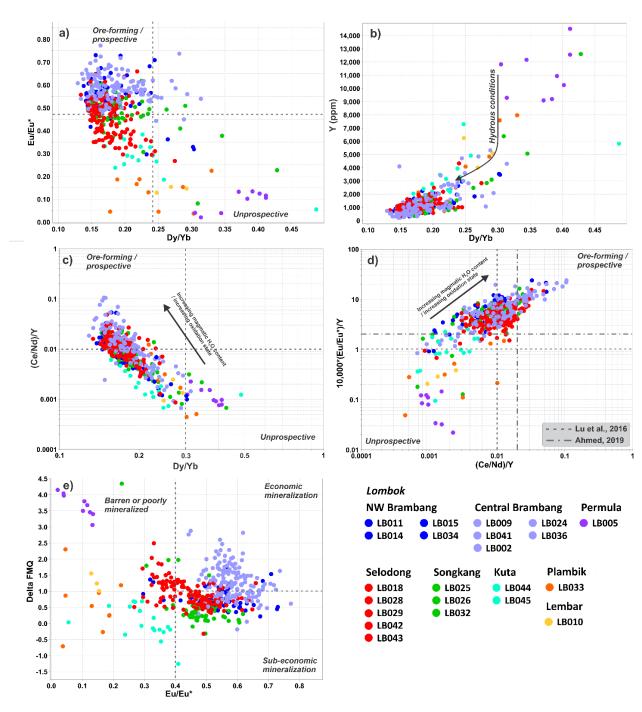
**Figure 6.6:** Java zircon prospectivity plots. a)  $Eu/Eu^*$  vs. Dy/Yb. b) Y vs. Dy/Yb. c) (Ce/Nd)/Y vs. Dy/Yb. d)  $10,000^*(Eu/Eu^*)/Y$  vs. (Ce/Nd)/Y. e) Delta FMQ vs.  $Eu/Eu^*$ .

only sample to have an unprospective signature and high Y-Dy/Yb. Brambang (NW and Central), Selodong and Songkang all have an ore-forming or prospective signature with

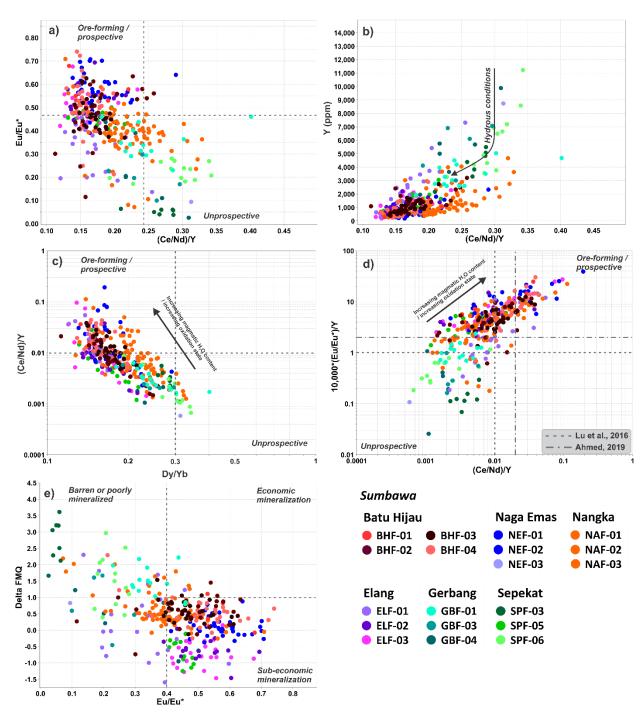
10,000\*(Eu/Eu\*)/Y > ~2 (using discriminations of Ahmed, 2019) and have a range of (Ce/Nd)/Y ~0.03 to 0.1 (Fig. 6.7d). Kuta, Plambik, Lembar and Permula zircons generally have low Eu and Ce anomalies, with 10,000\*(Eu/Eu\*)/Y and (Ce/Nd)/Y less than 1 and 0.01, respectively. Central Brambang zircons are the only Lombok site with high Eu/Eu\* (>0.4) combined with a moderately oxidized  $\Delta$ FMQ signature of ~+0.5 to +2.5 (Fig. 6.7e). Songkang, NW Brambang, and some zircons from Selodong have high Eu/Eu\* (>0.4); however, have a moderate  $\Delta$ FMQ of -0.5 to ~+1.0. A portion of Selodong and Songkang analyses have lower Eu/Eu\* (0.3-0.4) but a moderately oxidized  $\Delta$ FMQ signature of +0.5 to +2.0 (Fig. 6.7e). Kuta, Lembar, and Plambik zircons all have Eu/Eu\* less than 0.4, and  $\Delta$ FMQ of approximately -1.0 to +1.5. The samples from the barren Permula intrusion in Brambang are unique with extremely low Eu/Eu\* (~0.0 to 0.15) and extremely high or oxidized  $\Delta$ FMQ at +3.0 to +4.25 (Fig. 6.7e).

Sumbawa zircons from Batu Hijau, Naga Emas, Elang, and some from Nangka display prospective high Eu/Eu\* ( $\sim$  > 0.4) and low Dy/Yb ( < 0.3) compared to a majority of Sepekat, some Nangka, and some Elang zircons (Fig. 6.8a). The majority of Sumbawa zircons have low Dy/Yb ( < 0.3) and Y, other than Sepekat, and partially overlap with (Ce/Nd)/Y vs. Dy/Yb prospective field (Fig. 6.8b-c). Batu Hijau, Elang, Naga Emas, and most of Nangka zircons have prospective high 10,000\*(Eu/Eu\*)/Y >  $\sim$ 2, with (Ce/Nd)/Y of approximately 0.02 to 0.1 (Fig. 6.8d). Batu Hijau, Nangka, and Naga Emas have similar Eu/Eu\* ( $\sim$ 0.3 to 0.7) signatures, and moderate to weakly oxidized  $\Delta$ FMQ signatures from  $\sim$ -0.25 to +1.25 (Fig. 6.8e). At Elang the Charlie tonalite (ELF-02) and Echo tonalite (ELF-03) have high Eu/Eu\* (0.4 to 0.7) but are moderately reduced with a  $\Delta$ FMQ signature of -1.5 to 0.0. The Delta tonalite (ELF-01) at Elang has a similar  $\Delta$ FMQ with a broader Eu/Eu\*,

ranging from  $\sim$ 0.15 to 0.6. Gerbang and Sepekat zircons, other than one Sepekat sample with similar Eu/Eu\* and  $\Delta$ FMQ to Elang, have lower Eu/Eu\* of  $\sim$ 0.05 to 0.4 but are more oxidized, with a  $\Delta$ FMQ signature of approximately 0.0 to +3.75 (Fig. 6.8e).



**Figure 6.7:** Lombok zircon prospectivity plots. a)  $Eu/Eu^*$  vs. Dy/Yb. b) Y vs. Dy/Yb. c) (Ce/Nd)/Y vs. Dy/Yb. d)  $10,000^*(Eu/Eu^*)$ /Y vs. (Ce/Nd)/Y. e) Delta FMQ vs.  $Eu/Eu^*$ .



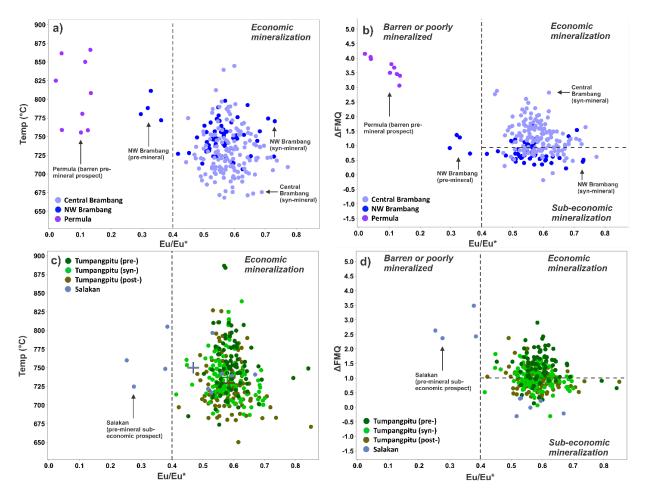
**Figure 6.8:** Sumbawa zircon prospectivity plots. a) Eu/Eu\* vs. Dy/Yb. b) Y vs. Dy/Yb. c) (Ce/Nd)/Y vs. Dy/Yb. d) 10,000\*(Eu/Eu\*)/Y vs. (Ce/Nd)/Y. e) Delta FMQ vs. Eu/Eu\*.

## 6.2.3 – Zircon crystallization temperature

The Ti content of magmatic zircon has been used to estimate crystallization temperature of igneous rocks (Watson et al., 2006; Ferry and Watson, 2007; Cao et al., 2018). In this study, the Ti-in-zircon thermometer of Ferry and Watson (2007) was used to estimate temperatures of zircon crystallization throughout systems from the eastern Sunda arc. At Brambang, early pre-mineralization phases at Permula and NW-Brambang have temperatures that range from ~750-870°C and 770-810°C, respectively (Fig. 6.9a). Synmineralization phases at NW Brambang have zircon temperature ranges of 710-800°C (sample averages of 730, 748, and 750°C). However, syn-mineralization Central Brambang zircons have a much broader temperature range of 670-845°C, with sample averages between 720 and 740°C, trending lower than NW Brambang (Fig. 6.9a). At Brambang, premineralization intrusions are higher temperature and have lower Eu/Eu\* than lower temperature and more hydrous syn-mineralization intrusions, similar to findings at several other porphyry systems (Large et al., 2020; Lee et al., 2021). The late, syn-mineralization phases at Central Brambang have the lowest zircon crystallization temperatures, high Eu/Eu\* (0.4 – 0.8) and are moderately to strongly oxidized with  $\Delta$ FMQ values of  $\sim$ 0.0 to +3.0 (Fig. 6.9b). At Tujuh Bukit, Tumpangpitu pre-, syn-, and post-mineralization intrusions all have similar  $Eu/Eu^*$  ( $\sim 0.45 - 0.7$ ) but broad ranges in zircon crystallization temperature from ~675 to 830°C (Fig. 6.9c). Pre-, syn-, and post-mineral average temperatures subtly decrease, with averages of 755°C, 734°C, and 730°C, respectively, following the same trend as Brambang intrusions with decreasing crystallization temperatures with successive phases (Fig. 6.9c). Salakan average temperatures are similar to pre-mineralization Tumpangpitu at  $\sim$ 750°C, despite crystallizing several million years

earlier. All phases at Tumpangpitu have similar  $\Delta$ FMQ values, ranging from  $\sim$ 0.0 to +2.5 (Fig.6.9d). The two samples from Salakan have a mixed bi-modal population, with one population having low Eu/Eu\* 0.2-0.4 and high  $\Delta$ FMQ of +2.5 to +3.5, and a second with high Eu/Eu\* similar to Tumpangpitu samples (0.5-0.7) and low  $\Delta$ FMQ of +0.25 to -0.5 (Fig. 6.9d).

On Sumbawa, zircons from Batu Hijau range in crystallization temperature from approximately 675-790°C, with outliers up to 840°C (Fig. 6.10a). Nangka and Naga Emas, prospects extending northwest from Batu Hijau approximately 2 and 4 km, respectively, have average zircon crystallization temperatures of 760 and 740°C (Fig. 6.10a). Batu Hijau and Naga Emas zircons have Eu/Eu\* values that range from 0.4 to 0.75, with outliers, and  $\Delta$ FMQ values of -0.25 to +1.0, with Naga Emas zircons slightly less oxidized than Batu Hijau. Nangka zircons have a wider Eu/Eu\* range of approximately 0.1 to 0.7, and a range of ΔFMQ values of -0.25 to +2.25 (Fig. 6.10b). Elang zircon crystallization temperatures range from 680 to 870°C, with a similar range for Elang satellites at Gerbang and Sepekat (Fig. 6.10c). The lowest average temperatures (~750-760°C) within the Elang district are from the Elang deposit (Charlie, Delta and Echo tonalites), which post-date all phases at Sepekat and Gerbang. In general, zircon crystallization temperatures decrease and Eu/Eu\* values increase within the temporal evolution of the Elang district (Fig. 6.10c). The Charlie and Echo tonalites at Elang have a narrow range of Eu/Eu\* and ΔFMQ values of 0.4 to 0.7 and -1.5 to 0.0, respectively (Fig. 6.10d). Delta tonalite at Elang has a much broader range for both, with 0.15-0.6 Eu/Eu\* and  $\Delta$ FMQ of -1.5 to +2.25. Similar to temperature, the earliest phases in the Elang district at Sepekat have the lowest Eu/Eu\* and are the most oxidized with highest ΔFMQ values, followed by Gerbang and to the high Eu/Eu\* values and



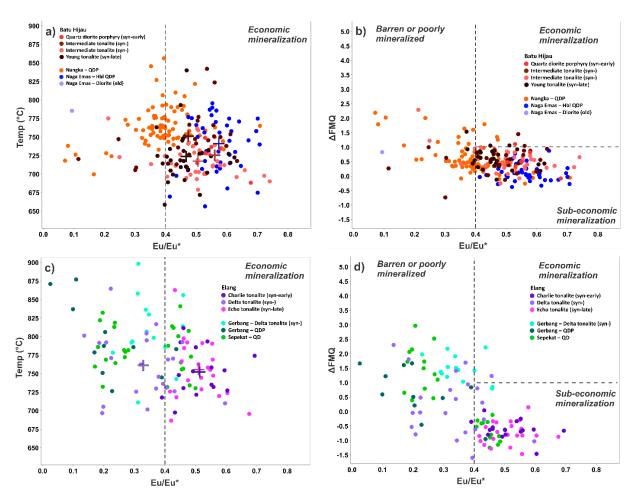
**Figure 6.9:** Plots of zircon Eu/Eu\* vs. a), c) temperatures and b), d)  $\Delta$ FMQ values. Temperatures calculated using Ti-in-zircon thermometer by Ferry and Watson (2007)): log (ppm Ti-in-zircon) = 5.711 – 4800/T(K) – log a<sub>Si02</sub> + log a<sub>Ti02</sub>, where log a<sub>Si02</sub> = 1 due to abundance of quartz, and log a<sub>Ti02</sub> = 0.7 due to the present of titanite.  $\Delta$ FMQ values are calculated following the method of Loucks et al. (2020). Crosses are sample averages.

moderately reduced  $\Delta$ FMQ signature of Elang phases, with the exception of one Sepekat phase which has similar values to the Charlie and Echo tonalites of Elang (Fig. 6.10d).

# 6.2.4 – Temporal variations and zircon prospectivity

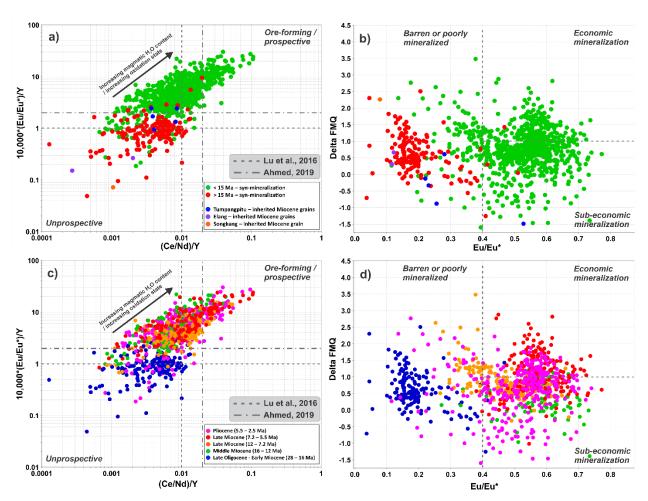
Intrusive ages from the eastern Sunda arc range from Late Oligocene to Pliocene, approximately 28 to 2.5 Ma. Almost all middle Miocene zircons ( > 15 Ma ) show a

prospective Eu/Eu\* signature, with the majority of analyses having 10,000\*(Eu/Eu\*)/Y > 2 and an Eu/Eu\* value > 0.4 (Fig. 6.11a). However, there is little difference in  $\Delta$ FMQ values, with both pre-15 Ma and post-15 Ma intrusions mostly moderately oxidized, with the majority of analyses (~85%) having  $\Delta$ FMQ values between 0.0 and +2.0 (Fig. 6.11b). Inherited Miocene grains from Tumpangpitu, Elang, and Songkang (all sites with dominantly prospective zircons) have drastically lower Eu/Eu\* and Ce/Ce\* anomalies compared to the main population zircons in each sample (Fig. 6.11a-b). The Roo Rise, an



**Figure 6.10:** Plots of zircon Eu/Eu\* vs. a), c) temperatures and b), d)  $\Delta$ FMQ values. Temperatures calculated using Ti-in-zircon thermometer by Ferry and Watson (2007): log (ppm Ti-in-zircon) = 5.711 – 4800/T(K) – log  $a_{SiO2}$  + log  $a_{TiO2}$ , where log  $a_{SiO2}$  = 1 due to abundance of quartz, and log  $a_{TiO2}$  = 0.7 due to the present of titanite.  $\Delta$ FMQ values are calculated following the method of Loucks et al. (2020). Crosses are sample averages.

oceanic plateau began subducting in the middle Miocene in Java, at approximately 15 Ma (Fuzhong et al., 2011). Several north-east trending transform crustal-scale faults formed throughout the eastern Sunda arc as a result of the subduction of the Roo Rise (Garwin et al., 2005; Hall, 2009; Maryono et al., 2018). In Sumbawa, the Batu Hijau and Elang deposits are above the northeastern extent of the Roo Rise, with authors inferring its collision with the arc in the late Pliocene (Garwin, 2002). Garwin (2002, 2005) proposed the collision of



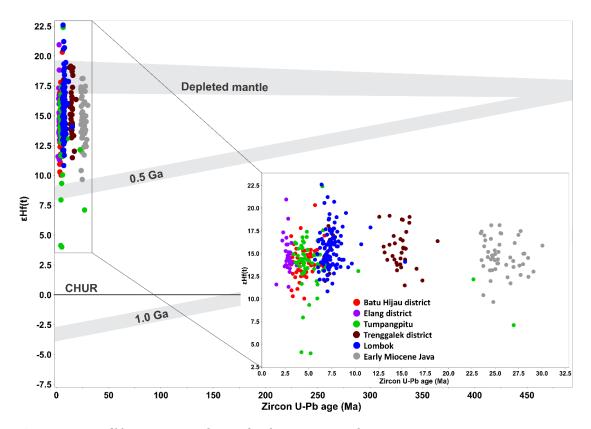
**Figure 6.11:** Eastern Sunda arc temporal zircon prospectivity plots. a) 10,000\*(Eu/Eu\*)/Y vs. (Ce/Nd)/Y for intrusions younger and older than 15 m.y. b) Delta FMQ vs. Eu/Eu\* for intrusions younger and older than 15 m.y. c) 10,000\*(Eu/Eu\*)/Y for subdivided Oligocene-Pliocene intrusions. d) Delta FMQ vs. Eu/Eu\* for subdivided Oligocene-Pliocene intrusions.

the Australian craton and Roo Rise with the eastern Sunda arc at approximately 4 to 3 Ma contributed to porphyry-copper deposit development at Batu Hijau. These collisions, starting approximately at 15 Ma in Java and again 3-4 Ma in Sumbawa that resulted in the formation of arc-transverse lineaments may have been key in facilitating development of pathways for hydrous magmas not observed in the eastern Sunda arc prior to 15 Ma.

# 6.2.5 – Zircon Hf isotopes

Eastern Sunda arc samples have average  $\varepsilon Hf(t)$  values of ~14.5 and are relatively homogenous, although they range from ~10 to 19. The uniform zircon Hf isotope compositions ( $\varepsilon Hf_{(t)} > 10$ ; Fig. 6.12) point towards a juvenile/very depleted melt source with minimal input from older lithosphere. These results are similar to the findings of Fiorentini and Garwin (2010) who found that the source magmas feeding the Batu Hijau district on Sumbawa had a juvenile signature and received less than 0.1 % of sedimentary material input, based on Pb, Nd and whole-rock isotope signatures. These findings are in contrast with the low-sulfidation epithermal systems of west Java and provide further evidence that the different mineralization styles (west Java: LSE; east Java to Sumbawa: HSE/porphyry Cu-Au) are a result of different crustal types and source components for magma generation. Marcoux and Milisei (1994) and Alves et al. (1999) showed Pb and Re-Os isotopes of volcanic rocks and ore from the Bayah Dome of west Java have contributions from crustal materials. These are supported by a recent study by Wu et al. (2019) showing average EHf values of -11.5 at Ciemas, suggesting the middle Miocene arc magmatism in west Java had significant crustal contamination. The similar εHf(t) expression from late Oligocene through to the Pliocene at variably endowed porphyry systems demonstrates

that the initial melt source is not a main factor in magma prospectivity the eastern Sunda arc but is a factor in different mineralization styles within the region.

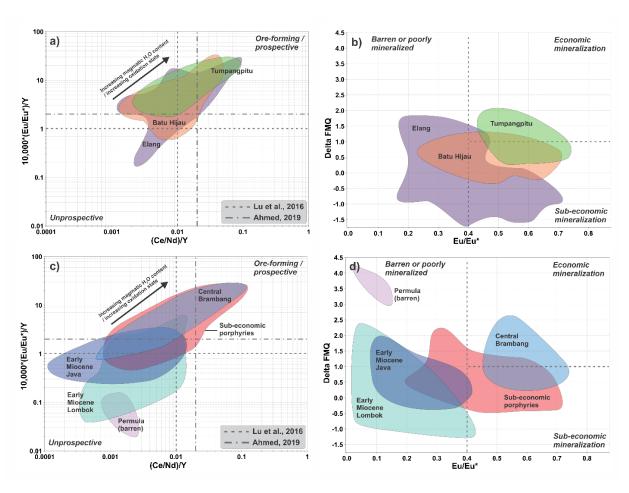


**Figure 6.12:** εHf(t) vs. zircon U-Pb ages for the eastern Sunda arc sites.

## 6.2.6 – Zircon summary

In general, pre-mineralization intrusions are higher temperature and have lower Eu/Eu\* than lower temperature and more hydrous syn-mineralization intrusions, similar to findings at several other porphyry systems (Large et al., 2020; Lee et al., 2021). Unique to Tumpangpitu, all intrusions (pre-, syn-, and post-mineralization) have a similar prospective zircon signature. All mid-Miocene to Pliocene syn-mineralization (< 15 Ma) intrusions in the eastern Sunda arc have a prospective zircon Eu/Eu\* and Ce/Ce\* signature related to high-water content and oxidation state of fertile intrusions (Fig. 6.13; Ballard et

al., 2002; Dilles et al., 2015; Shen et al., 2015; Lu et al., 2016; Lee et al., 2017); however, zircon prospectivity signatures show no significant variation with known size of deposits. All Oligocene to mid-Miocene intrusions ( > 15 Ma) have an unprospective zircon Eu/Eu\* and Ce/Ce\* signature, indicative of drier and less oxidized magmas less conducive for economic porphyry mineralization. The pronounced change in zircon prospectivity signatures at approximately ~15 Ma likely marks significant changes in arc-scale geodynamics (e.g., Roo Rise) and demonstrates the potential of zircon as a regional discriminatory tool for fertility evaluation of systems within the eastern Sunda arc.



**Figure 6.13:** Summary of Eastern Sunda arc zircon prospectivity plots. a) 10,000\*(Eu/Eu\*)/Y vs. (Ce/Nd)/Y for giant deposits. b) Delta FMQ vs. Eu/Eu\* for giant deposits. c) 10,000\*(Eu/Eu\*)/Y vs. (Ce/Nd)/Y for Subeconomic porphyries, early Miocene Java HSE, early Miocene Lombok porphyries, Permula (Lombok), and Central Brambang (Lombok). d) Delta FMQ vs. Eu/Eu\* for Sub-economic porphyries, early Miocene Java HSE, early Miocene Lombok porphyries, Permula (Lombok), and Central Brambang (Lombok).

### **6.3 -** *Apatite*

### 6.3.1 – Introduction

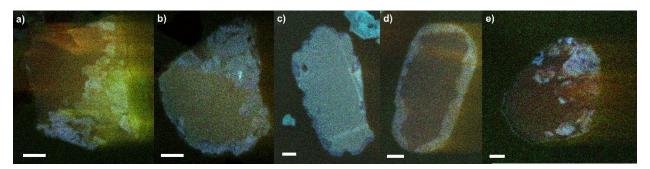
Apatite [Ca5(PO4)3(F, OH, Cl)] is common to a variety of rock types and is a typical accessory phase in plutonic and volcanic hypabyssal rocks associated with formation of porphyry deposits (Streck and Dilles, 1998). Apatite also crystallizes in both magmatic and hydrothermal environments and has the ability to record geochemical information throughout the lifespan of magmatic-hydrothermal systems, such as porphyries. Apatite crystal structure can be described by the general formula A5(XO4)3Z with the A-site accommodating large cations (e.g., Ca<sup>2+</sup>, Sr<sup>2+</sup>, Pb<sup>2+</sup>, Mg<sup>2+</sup>, Mn<sup>2+</sup>, REE<sup>3+</sup>, Eu<sup>2+</sup>, Na+) and X-site, primarily P<sup>5+</sup>, accommodating other cations (e.g. Si<sup>4+</sup>, S<sup>6+</sup>, V<sup>5+</sup>, As<sup>5+</sup>) (Pan and Fleet, 2002; Piccoli and Candela, 2002; Hughes and Rakovan, 2002). The Z site is occupied by halogens (F- and Cl-) and OH-.

Previous work has shown that magmas with high chlorine (>3,000 ppm) and sulfur (>1,000 ppm) contents are beneficial to the generation of productive magmatic-hydrothermal porphyry Cu deposits (Richards, 2015, Chiaradia et al., 2012; Loucks, 2014, Lu et al., 2016). These features are essential for transport of Cu in the magma and in high-temperature SO<sub>2</sub>-rich magmatic derived fluids (Candela and Holland, 1984). Consequently, apatites associated with porphyry deposits have been shown to often be Cl-rich (e.g., Roegge et al., 1974) and can be used as a proxy for Cl contents of parental melts (Holland, 1972). As sulfur only substitutes into apatite as sulphate (S<sup>6+</sup>), apatites that have significant S must crystallize from oxidized magmas (Parat et al., 2011). Apatite S and Cl contents have been the focus of several recent studies into porphyry prospectivity/fertility (e.g., Mao et

al., 2016; Cao et al., 2021; Xiao et al., 2021; Parra-Avila et al., 2022; Qu et al., 2022; Wang et al., 2022; Zhu et al., 2022).

# 6.3.2 – Apatite texture

A wide variety of apatite textures are observed throughout sites from the eastern Sunda arc (see Chapter 5: Results); classified as either magmatic, altered, or hydrothermal, largely based on CL texture and trace element chemistry. The majority of grains are either completely unaltered or completely altered/replaced. The rare unaltered grains in hydrothermally altered rocks likely occurred as inclusions in robust grains of other phases that protected the apatite from hydrothermal alteration. Occasionally, grains show evidence of patchy partial replacement, or replacement along grain boundaries, representative of the hydrothermal alteration front (Fig. 6.14).

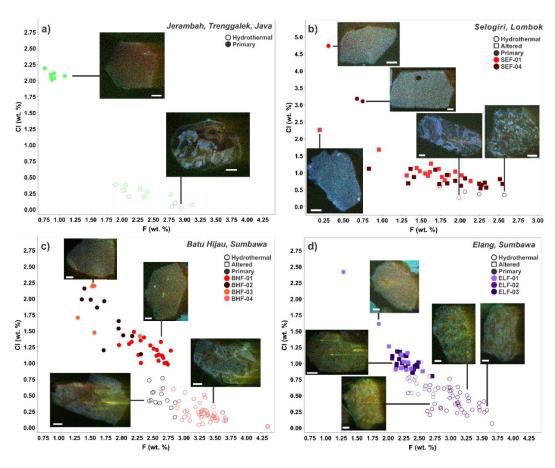


**Figure 6.14:** Cathodoluminescence images showing partial or rim replacement/alteration of primary magmatic apatite grains. (a) Batu Hijau, Sumbawa (BHF-03). (b) NW Brambang, Lombok (LB034). (c) Selogiri, Java (SLG-02). (d) Plambik, Lombok (LB010). (e) Jerambah, Trenggalek, Java (JER-01). White scale bars are 10 μm.

# 6.3.3 – Halogens and sulfur in apatite

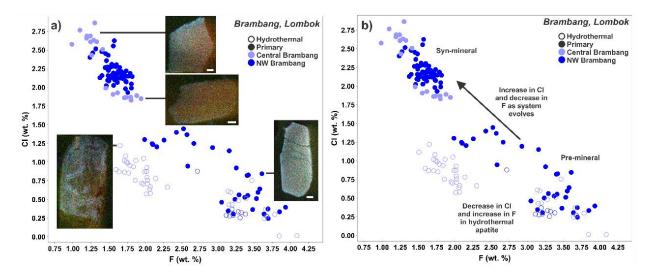
Within eastern Sunda arc apatites, the most consistent way of discriminating hydrothermal or altered vs primary magmatic apatites is with Cl and F contents and CL

texture (Fig. 6.15). There are generally stark differences in primary and hydrothermal grains Cl and F contents, with primary magmatic apatite usually having increased Cl and decreased F and the opposite relationship with hydrothermal grains (Fig. 6.15a; 6.15c). Altered apatite, where present (i.e., grains not purely magmatic or purely hydrothermal, largely based on CL textures) generally show a transition between magmatic and hydrothermal Cl and F (Fig. 6.15b, 6.15d). Texturally, hydrothermal apatite usually has streaky CL emissions and patchy or irregular internal zonations, compared with the general homogenous CL response of blue/green/brown of magmatic apatite (Fig. 6.15). These Cl-F trends between magmatic and hydrothermal apatite are evident at Brambang



**Figure 6.15:** Cl and F contents of magmatic, altered, and hydrothermal apatite with representative CL images from selected sites from the eastern Sunda arc. (a) Jerambah, Trenggalek, Java. (b) Selogiri, Lombok. (c) Batu Hijau, Sumbawa. (d) Elang, Sumbawa. White scale bars on CL images are  $10~\mu m$ . Note different scale used for (b) Selogiri.

(Fig. 6.16a); however, NW Brambang pre-mineral phases also have low-Cl, high-F apatite compared to later, syn-mineralization intrusions. This change in apatite chemistry from early, low-Cl intrusions to later, high-Cl intrusions could be an important component for productive porphyry mineralization. This relationship is also present at Batu Hijau, with the earliest quartz diorite phase (BHF-01) having lower apatite Cl content than successive syn-mineral tonalite intrusions (BHF-02 – 04) (Fig. 6.15c). This relationship could not be tested at other sites due to the lack of pre- or post-mineralization phases that contain apatite.

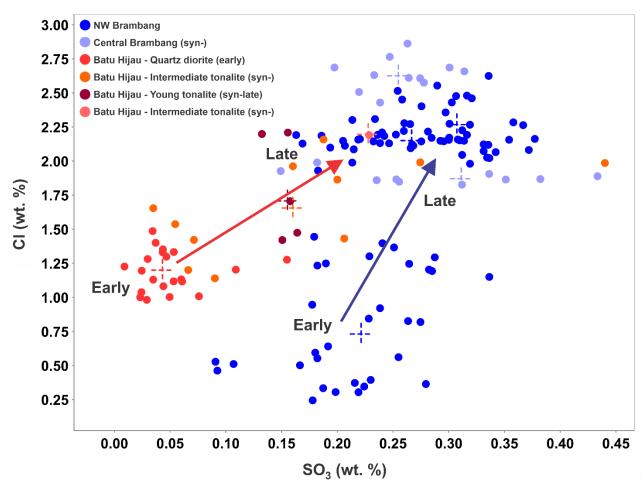


**Figure 6.16:** Cl and F contents of magmatic and hydrothermal apatite from Brambang, Lombok with (a) representative CL images and (b) timing relationships. White scale bars on CL images are  $10 \mu m$ .

The other feature in apatite beneficial to the generation of productive porphyry Cu mineralization is sulfur. Similar to the increase in Cl contents of apatite in successive synmineralization intrusions compared to early phases, an increase in SO<sub>3</sub> is also observed (Fig. 6.17). Early quartz diorite at Batu Hijau has lower SO<sub>3</sub> than later syn-mineral phases, and at Brambang, early phases have lower SO<sub>3</sub> than later syn-mineral phases at NW

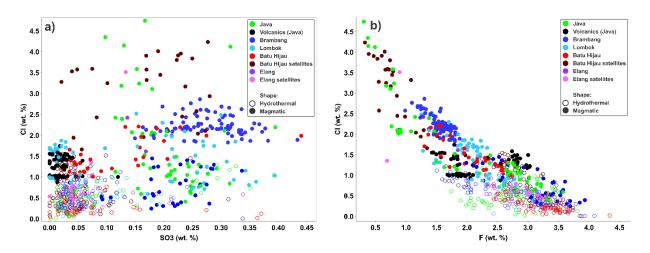
Brambang and Central Brambang. It is interesting to note that at Batu Hijau, the greater change between early and late phases is in  $SO_3$ , and lesser Cl, whereas at Brambang the greater change between early and late phases is Cl, and lesser  $SO_3$ . Both systems show an increase in Cl and  $SO_3$ , but at different proportions.

High Cl and SO<sub>3</sub> values; however, are not ubiquitous or consistent solely with well-endowed systems. On a regional scale, hydrothermal apatite generally consists of both low Cl and SO<sub>3</sub>, with the majority of analyses below 1.5 wt. % Cl and 0.10 wt. % SO<sub>3</sub> (Fig. 6.18a). Magmatic apatite from volcanics in Java have similarly low Cl and SO<sub>3</sub>, less than  $\sim$ 1.0 and



**Figure 6.17:** Magmatic apatite Cl and SO<sub>3</sub> contents from samples at Batu Hijau and Brambang. Early phases at both Brambang and Batu Hijau have lower Cl and SO<sub>3</sub> than later intrusions associated with mineralization. Median values of samples are indicated with crosses.

0.05 wt. % Cl and SO<sub>3</sub>, respectively. Eastern Sunda arc S and Cl contents of apatite from synmineral intrusions are elevated compared to pre-mineral intrusions, matching observations that have been made within several other porphyry systems (e.g. Zhu et al., 2018; Chen et al., 2022; Parra-Avila et al., 2022). However, on a regional scale they are similar to values at several other sub-economic porphyries throughout Java, Lombok, and Sumbawa (Fig. 6.18a). Hydrothermal apatite have Cl less than 1.5 wt. % and F greater than 1.5% but overlap with magmatic apatite that spans the entire range of the dataset, from 0.25 – 4.75 wt. % Cl and 0.25 – 4.00 wt. % F (Fig. 6.18b).

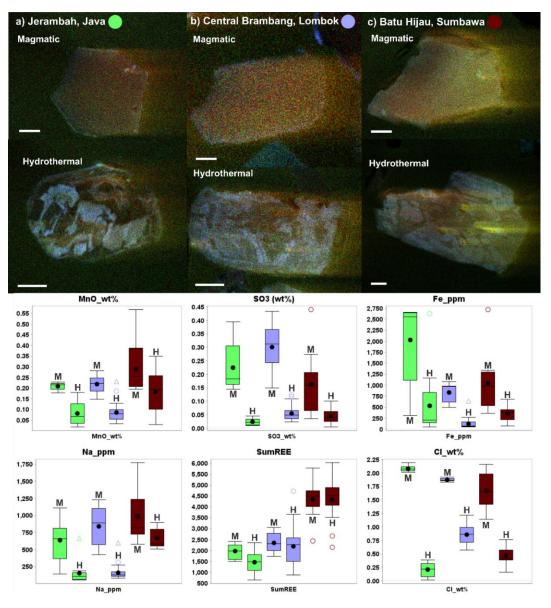


**Figure 6.18:** (a) Magmatic and hydrothermal apatite Cl and  $SO_3$  from eastern Sunda arc sites. (b) Magmatic and hydrothermal apatite Cl and F from eastern Sunda arc sites.

## 6.3.4 – Hydrothermal apatite prospectivity

Bouzari et al. (2016) described in detail changes in CL texture and composition in hydrothermal apatite throughout several porphyry deposits in British Colombia. They found both changes in texture with alteration types, but also lower Na, Mn, Cl, REE and higher Mn/Fe ratios in altered apatite. Loader (2017) observed higher Mn, Sr and Fe in hydrothermal apatites associated with mineralization at Oyu Tolgoi and Resolution, as well

as lower LREE (lower La/Yb ratios) in hydrothermal apatites in general. Within the eastern Sunda arc, there are several different textures observed, both within magmatic and hydrothermal apatite, and some that repeat at different sites (Fig. 6.19). Jerambah, Brambang, and Batu Hijau samples all have similar orange-green magmatic apatite and purple-blue patchy hydrothermal apatite (Fig. 6.19). All samples share the similarity of



**Figure 6.19:** Cathodoluminescence images of similarly textured igneous and hydrothermal apatites from (a) Jerambah, Java, (b) Central Brambang, Lombok and (c) Batu Hijau, Sumbawa and corresponding box and whisker plots of selected elements (MnO, SO<sub>3</sub>, Fe, Na,  $\Sigma$ REE, and Cl). Symbols M and H in box and whisker plots represent magmatic and hydrothermal apatite, respectively. White scale bars on CL images are 10  $\mu$ m.

decreasing Mn, SO<sub>3</sub>, Fe, Na, REE, and Cl from magmatic to hydrothermal apatite; however, all hydrothermal compositions are strongly tied to the primary magmatic composition. In general, hydrothermal apatite composition does not seem to be dictated by hydrothermal fluid composition but is more a factor of its original composition. The aforementioned features of hydrothermal apatite described at other sites (e.g. Bouzari et al., 2016; Loader, 2017, and others), specifically higher Mn/Fe ratios, drastically lower LREE, and high Sr are not evident in any of the eastern Sunda arc sites. The majority of Sr values are below 500 ppm, Mn/Fe ratios in both magmatic and hydrothermal apatite range from 0 to 30, and hydrothermal apatite has subtly lower LREE than magmatic apatite.

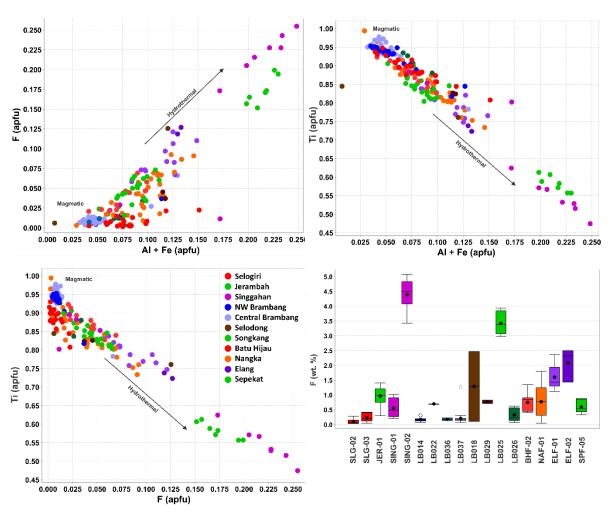
## 6.3.5 – Apatite summary

Apatite compositions and physical textures, both magmatic and hydrothermal, are very diverse. Apatite shows promise with tracking evolution of individual systems; however, compositions range so dramatically it is difficult to show robust regional trends, especially with regard to porphyry system endowment or fertility/prospectivity. Elevated values of Cl and S in magmatic apatite are a useful indicator of potential for a prospective system, specifically with lower Cl and S in early phases and higher Cl and S in synmineralization phases but are not ubiquitous to significantly endowed systems. Within the eastern Sunda arc, apatite trace element compositions from strongly mineralized porphyry systems do not appear to show a systematic change from poorly mineralized systems. Specifically, apatite compositions vary greatly from area to area, and appear to be controlled by local magma composition and formation factors, rather than influences from prospective or fertile intrusions.

#### 6.4 - Titanite

Titanite grains from samples from the eastern Sunda arc are mostly euhedral-subhedral magmatic grains. A significant amount of grains from other sites are altered or corroded, often with inclusions or partially replaced by other minerals. Brambang, Lombok is the only site with magmatic grains that are zoned in BSE.

Most titanite grains throughout the eastern Sunda arc have Cr and Sr concentrations below or close to detection limits (< 0.005 wt. %). Selogiri, Jerambah, Singgahan, Songkang



**Figure 6.20:** a) F vs. Al+Fe (apfu) bivariate plot. b) Ti vs. Al+Fe (apfu) bivariate plot. c) Ti vs. F (apfu) bivariate plot. d) Box and whisker diagram of F (wt. %) concentrations.

and Nangka have Cr up to 0.04 wt. %, with Selogiri, Jerambah, Central Brambang, Songkang, Batu Hijau, Naga Emas, and Elang the only sites with detectable Sr concentrations of up to 0.014 wt. %. Fluorine concentrations range from 0 to 5 wt. %, with altered titanite at Singgahan (SING-02) and Songkang (LB025) having the highest contents, with 3.5 to 5 and 3 to 4 wt. % F, respectively. Magmatic grains with strong zoning in BSE have the lowest F contents, with Selogiri (SLG-02), NW Brambang (LB014) and Central Brambang (LB036, LB037) all having analyses with less than 0.30 wt. % F (Fig. 6.20). Aluminum, Fe, and Ti apfu range from 0 to 0.25, 0 to 0.11, and 0.5 to 1.0, respectively (Fig. 6.20).

Titanite grains were only encountered in 25 samples, however most of those samples contained under five grains. Only three samples contained over twenty grains. As a result, titanite did not prove to be particularly useful for regional comparison of mineral chemistry.

#### 6.5 - Rutile

### 6.5.1 – Introduction

Rutile (TiO<sub>2</sub>) is an accessory mineral that is widely distributed in igneous, metamorphic and sedimentary rocks (Meinhold, 2010; Plavsa et al., 2018). Trace element compositions of rutile can provide information into potential sources and evolution of rocks, as well as ore-forming processes (e.g., Rabbia et al., 2009) Previous studies have investigated the link between rutile trace element chemistry and mineralization; however, there has been a large focus on orogenic gold (e.g. Graham and Morris, 1973; Clark and Williams-Jones, 2004; Scott and Radford, 2007; Agangi et al., 2019; Porter et al., 2020;

Sciuba and Beaudoin, 2021), with less work in porphyry Cu-(Au) systems (Williams and Cesbron, 1977; Czamanske et al., 1989; Scott, 2005; Rabbia et al., 2009; Schirra and Laurent, 2021).

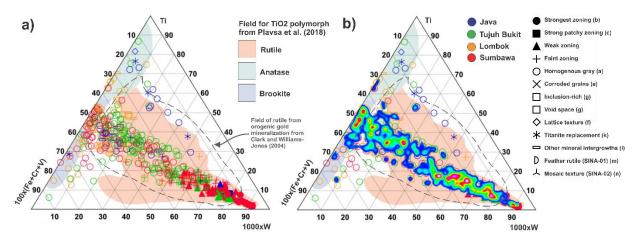
# 6.5.2 - Occurrence of hydrothermal rutile in porphyry-Cu deposits

Hydrothermal rutile in porphyry deposits has been documented to form due to breakdown of primary Ti-bearing mineral phases (e.g., biotite, Ti-magnetite, ilmenite; Czamanske et al., 1981; Scott, 2005; Rabbia et al., 2009). Schirra and Laurent (2021) demonstrated evidence of several different generations of rutile within the Batu Hijau, Bingham Canyon, El Salvador, and Northparkes porphyry systems. They found that the different rutile occurrences form over the entire hydrothermal lifespan, from the potassic alteration stage at > 500°C down through sericite alteration (300°C) and contemporaneously with Cu-mineralization/sulfide precipitation at similar temperatures (i.e. 400°C to 300°C), indicating that hydrothermal rutile has the potential to record information about physical and chemical conditions pertaining to porphyry Cu mineralization (Schirra and Laurent, 2021).

#### 6.5.3 – Rutile prospectivity indicators

Rutile mineral chemistry has attracted attention as a prospectivity or fertility tool for mineral deposits due to the robustness of the mineral, especially when sulfides have been leached out/destroyed as with detrital stream sediment or glacial till surveys (Williams and Cesbron, 1977; Clark and Williams-Jones, 2004; Scott, 2005; Meinhold, 2010; Taylor et al., 2018; Agangi et al., 2019; Porter et al., 2020). Several porphyry-related rutile prospectivity indicators or pathfinders towards mineralization have been proposed in

previous studies, based on trace element chemistry as well as texture and size of rutile grains. Czamanske et al. (1981) showed that rutile abundance and grain size increases with higher Cu grades in several porphyry deposits. Clark and Williams-Jones (2004) showed elevated W, Cu, and V in ore zones of several Au deposits whereas Scott (2005) documented rutile with V > 0.2 wt. % proximal to ore-zones in magmatic hydrothermal systems at Northparkes. Within the eastern Sunda arc sites rutile V concentrations are highly variable ranging from ~10 to 15,000 ppm (average ~2,600 ppm) and with the majority of samples, regardless of mineralization, having some analyses over the > 0.2 wt. % discrimination of Scott (2005). Clark and Williams-Jones (2004) developed a ternary diagram where Ti, 100\*(Fe+Cr+V) and 1000\*W values were plotted to highlight rutile associated with ore-zones in orogenic, VMS and base metal deposits. Figure 6.21 compares the eastern Sunda arc dataset with the discrimination field of Clark and Williams-Jones (2004) indicated by a dashed line. Approximately 90% of all rutile analyses plot within the 'mineralized' field. The vast majority of rutile analyses plot with highly variable W



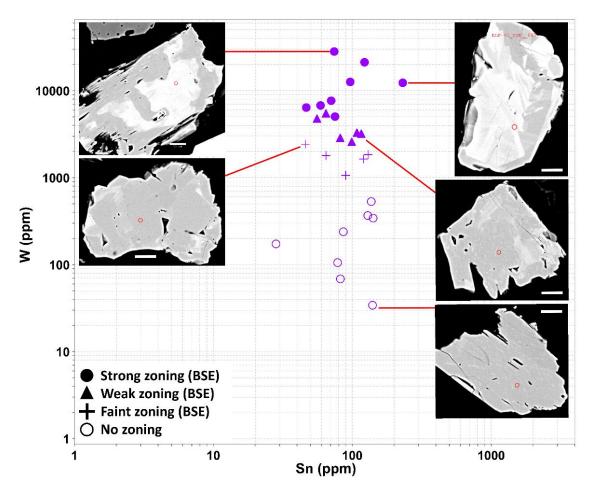
**Figure 6.21:** a) Ternary diagram showing Ti vs. 100(Fe+Cr+V) vs. 1000xW, adapted from Clark and Williams-Jones (2004). b) Same diagram with density of points, with the majority of analyses tied to variations in W composition.

concentrations with negligible change in Fe, Cr, V, or Ti, indicating that increases in W values are completely independent of the other values, indicating that increased W concentrations may itself be an indicator of mineralization potential in porphyry Cu systems of the eastern Sunda arc.

#### 6.5.4 – Rutile texture and W concentrations

Rutile textures throughout the eastern Sunda arc are extremely varied and complex, at the intra-sample and inter-sample scales (See Chapter 5). Inclusions, intergrowths, void-spaces, regressed/altered grains and exsolution textures are common; however, the majority of grains are unzoned and homogeneous gray in BSE imaging (approximately 60%) with rarer oscillatory or patchy zoned grains. Several samples display a marked transition in grains from homogeneous gray through to strongly zoned in BSE imaging that corresponds strongly with W concentrations (Figure 6.22). The ranking classification of strong through to faint zoning is subjective especially as it takes into consideration a single 30um laser spot which cannot record entire grain profiles.

In strongly zoned rutile from a strongly mineralized sample at Gerbang (Fig. 6.23a), zoning is largely controlled by W composition (up to 10 wt. % in the brightest sector). It is important to note that the extremely fine nano-scale oscillatory zoning coupled with the very fine grain size creates artifacts within some of the laser maps, most notably with W and V. Concentrations of U, the only other hexavalent ion in rutile (U) are higher in W-rich sectors, although significantly less abundant (Fig. 6.23). Similarly, Fe is highest in W-rich zones of strongest BSE zoned rutile. Tin and Nb (as well as other HFSE not shown) are several orders of magnitude less abundant, and do not display the same zoning as W (Fig.

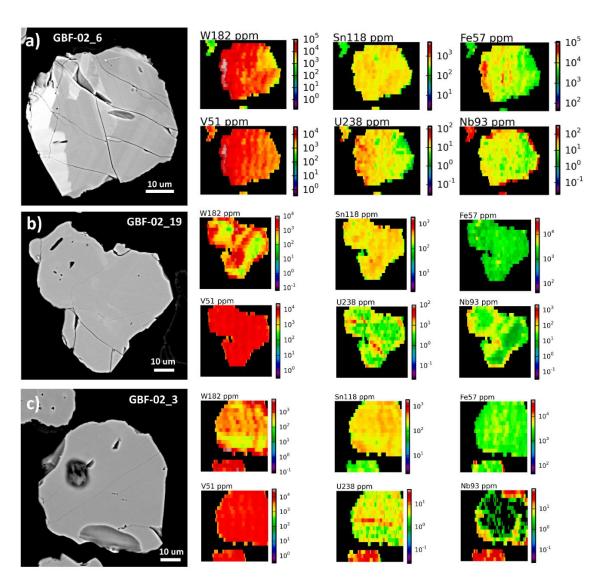


**Figure 6.22:** W vs. Sn of syn-mineralization Delta tonalite (ELF-01) from Elang, Sumbawa with inset examples of varying rutile zoning in BSE. High-W grains have the strongest zoning and BSE response, whereas low-W grains have no or faint zoning, and a dull grey BSE response. White scale bars are 10 microns. Red circles are locations of EMPA analyses.

6.23). Faintly zoned rutile (Fig. 6.23b) has barely visible zoning in BSE; however, the faint zones have small sectors of up to 10,000 ppm W and show complex W variations throughout the grain. It is important to note the differences in magnitudes of the colour scales compared to Figure 6.23a. Niobium, and to a lesser extent Sn are subtly elevated in W-rich areas. Uranium and Fe do not show a correlation with W. In homogenous gray rutile grains (Fig. 6.23c), chemical zoning disappears, as does BSE zoning. Tungsten concentrations are significantly lower (~500-1,000 ppm) with no significantly enriched

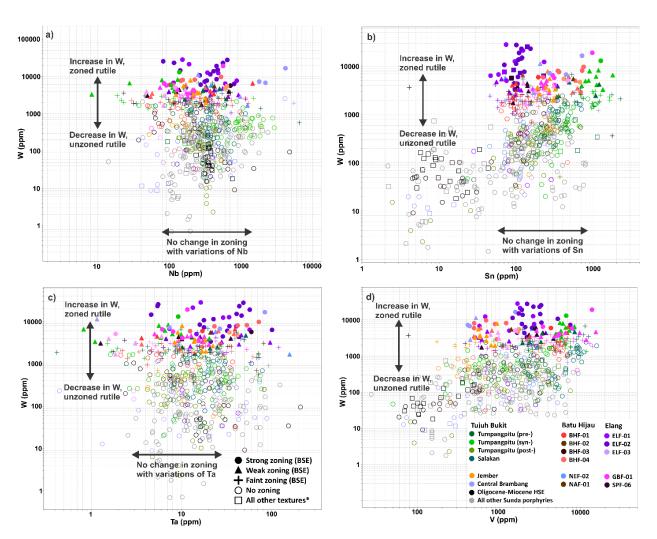
zones, although there are still heterogeneous patches showing minor variations in W concentrations.

These BSE zoned W-rich rutile grains are present at several other sites within the study area (Fig. 6.24). Tungsten content within rutile in the eastern Sunda arc dataset varies by over five orders of magnitude, with individual samples having grains varying by up to three to four orders of magnitude. When plotted against other highly compatible



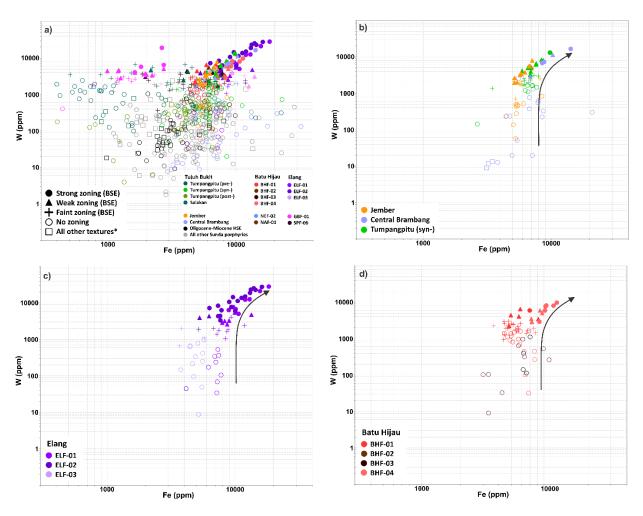
**Figure 6.23:** LA-ICP-MS maps of select a) strongly zoned, b) faintly zoned, and c) homogenous gray rutile grains from syn-mineralization Charlie tonalite, Gerbang, Elang district, Sumbawa (GBF-02). Note differences in magnitude of colour scales between grains.

Elements in rutile, the correlation between BSE zonation and high-W is evident (Fig. 6.24). Tungsten-Nb and W-Ta show no discernable trend, whereas W-V and W-Sn show weakly-positive to positive correlations; however, throughout all element ratios, W composition reflects whether or not grains have zoning. There is a distinct positive trend between W and Sn in Tumpangpitu rutile. Within the eastern Sunda arc, Sn-bearing sulfosalts are unique to Tumpangpitu (Harrison, 2017), and although they post-date hypogene and epithermal mineralization, could indicate a more Sn-rich source compared to other sites throughout the arc.



**Figure 6.24:** Rutile W bivariate plots of a) W vs. Nb, b) W vs. Sn, c) W vs. Ta, d) W vs. V. All plots show a strong correlation with BSE zoning and W composition, with no influence from other elements.

Due to the mineral separation aspect of this study, in-situ petrographic information on rutile mineral associations and occurrences was not possible, especially to quantify if W-rich, BSE zoned rutile are associated with mineralizing hydrothermal fluids. However, in the majority of samples that have a gradient of unzoned, W-poor rutile to strongly zoned, W-rich rutile, there is a trend of consistent Fe and increasing W that transitions to a positive correlation in increasing Fe and increasing W content (Fig. 6.25). This relationship is supported by the ionic substitution of 2 Ti<sup>4+</sup>  $\leftrightarrow$  M<sup>6+</sup> + 2M<sup>3+</sup>, where M<sup>6+</sup> = hexavalent ions W<sup>6+</sup> and U<sup>6+</sup>, and M<sup>3+</sup> = trivalent ions Al<sup>3+</sup>, Sc<sup>3+</sup>, V<sup>3+</sup>, Cr<sup>3+</sup>, Fe<sup>3+</sup>, and Y<sup>3+</sup> (Tiepolo et al., 2000),

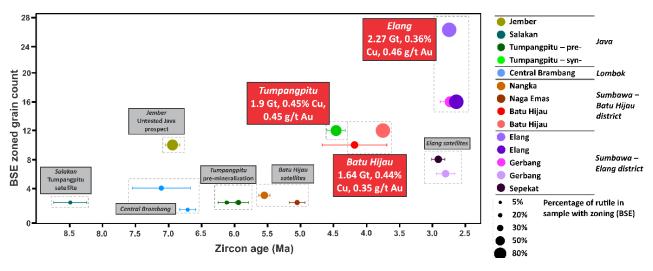


**Figure 6.25:** W vs. Fe of rutile grains from a) all eastern Sunda arc sites, b) selected Java and Lombok sites, c) Elang, and d) Batu Hijau showing an increase in both Fe and W concentrations in rutile in strongly zoned grains.

by which Ti can exchange for W and Fe by way of a coupled substitution. This trend is only present within samples from mineralized systems that contain these marked BSE and W composition zoning transitions, including Elang, Batu Hijau, Tumpangpitu, Central Brambang, and others. The strongly BSE zoned and W-rich rutile of Figure 6.23a shows correspondingly high Fe contents in the same sector, similar to the transition to near 1:1 ratio of W to Fe contents displayed in strongly BSE zoned rutile of Figure 6.25, which supports an interpretation that W-rich BSE zoned rutile is related to Fe-rich (and by association) W-rich hydrothermal fluids associated with significant mineralization.

## 6.5.5 – Relationship of zoned rutile and porphyry mineralization

Figure 6.26 shows the amount of BSE zoned rutile grains plotted against age, and circles corresponding to percentage of rutile within samples that were zoned in BSE. Zoned rutile in BSE is only present at 10 of 29 sites in the study, with only six sites with weak-strong zoning in more than 50% of rutile grains analysed. The majority of BSE zoned rutile occur in 5 Ma and younger systems, with those systems being the host to the main



**Figure 6.26:** Plot of corresponding sample age vs. count of weak-strong BSE zoned rutile grains. Percentage of rutile in sample with BSE zoning is indicated by size of point, and indication of rutile error extent with error bars.

economic porphyry mineralization within the region. Giant porphyry deposit samples at Batu Hijau, Elang, and Tumpangpitu contain the highest number of BSE zoned rutile grains with high W. In addition these grains are only associated with giant porphyries and their satellites, as well as Central Brambang, the other most significantly mineralized system outside of the giants. Jember is the only exception to this, but is an untested, or undrilled prospect that is mineralized and has a significant amount of porphyry-style veining.

# 6.5.6 - Exploration implications and concluding remarks

Certain minerals related to ore systems can have chemical compositions that reflect potential for mineralization and are robust enough to survive weathering and transport (Averill, 2001; Plouffe et al., 2016). Schirra and Laurent (2021) identified high-W rutile at Batu Hijau, Bingham Canyon, El Salvador, and Northparkes porphyry deposits, with W one of the highest enriched elements in hydrothermal rutile compared to background/non-ore related detrital and metamorphic rutile. Eastern Sunda arc rutile grains that are zoned in BSE all contain high concentrations of W, with the vast number of zoned grains corresponding to samples from world-class porphyry Cu-Au deposits including Batu Hijau, Elang, and Tumpangpitu. What is significant is a transition from prevalent high-W, zoned rutile at large porphyry deposits, to low-W, unzoned rutile at sub-economic or small porphyry systems. Within the eastern Sunda arc, W-rich zoned rutile has the potential to be an effective proxy for porphyry-Cu mineralization, especially pertaining to regional exploration, such as in detrital stream sediment surveys.

# **Chapter 7: Conclusions**

This study focused on two main components within the eastern Sunda arc: the investigation of magma fertility and prospectivity indicators for zircon, apatite, and rutile within several porphyry Cu-Au deposits and prospects along the arc and the U-Pb geochronology of the arc segment.

Geochronology reaffirms a consistent east-younging in central and eastern Java from Trenggalek (~15 Ma) through Salakan (~8.5 Ma) and Jember (~7 Ma), to the premineralization phases (~6.5 Ma) and syn-mineralization phases (~4 Ma) at Tumpangpitu, similar to the findings of Harrison (2017) and Maryono et al. (2018). Lombok, which only had previous age determinations at the western-most sites of Brambang and Selodong (Maryono et al., 2018), shows an opposite westward younging in SW Lombok from Kuta, Plambik and Lembar in the east (20-17.5 Ma) through Songkang (~10-8 Ma), Selodong  $(\sim 7.5 \text{ Ma})$  and Brambang  $(\sim 7 \text{ Ma})$ . The west-younging distribution of Lombok systems are aligned within broad regional NW trending structures in the SW portion of the island, indicating that the region with highest potential for Pliocene magmatism on Lombok are southwest of Brambang and Selodong. On Sumbawa, there is a general younging from west to east from Nangka ( $\sim$ 6.5 Ma), Naga Emas ( $\sim$ 5 and 3.5 Ma) to Batu Hijau ( $\sim$ 4.5-3.5 Ma) and the Elang district (~3.0 to 2.5 Ma). The occurrence of Middle-Micoene intrusions on Lombok (Lembar, Plambik, Kuta) were previously unknown, and extend the limit of Middle-Miocene magmatism to Lombok.

Zircon chemistry can record redox conditions during magmatism, which can be determined by evaluating Ce and Eu anomalies relative to neighbouring rare-earth

elements. Since porphyry Cu-Au deposits require strongly oxidized conditions to form, the magnitudes of Eu and Ce anomalies in zircon are increasingly being used to evaluate or discriminate prospective areas for exploration that contain intrusions crystallized from oxidized and hydrous melts. All mid-Miocene to Pliocene syn-mineralization (< 15 Ma) intrusions in the eastern Sunda arc have a prospective zircon Eu/Eu\* and Ce/Ce\* signatures related to high water content and oxidation state. These signatures are similar for all intrusions of this age, and do not significantly vary between deposits with different known metal endowment. All Oligocene to mid-Miocene intrusions (> 15 Ma) have an unprospective zircon Eu/Eu\* and Ce/Ce\* signature, indicative of drier and less oxidized magmas less conducive to economic porphyry mineralization. The pronounced change in zircon prospectivity signatures at approximately ~15 Ma likely marks a significant change in arc-scale geodynamics (i.e., initiation of subduction of the Roo Rise), and demonstrates the potential of zircon as a regional discriminatory tool for evaluation of porphyry systems within the eastern Sunda arc. There is no discernable change in zircon chemistry between smaller, sub-economic mid to late-Miocene porphyry systems and giant Pliocene porphyry systems such as Tumpangpitu, Batu Hijau and Elang. All east Java to Sumbawa sites have zircon Hf isotopes (average  $\varepsilon$ Hf(t) ~+14.5) with a very depleted or juvenile melt source signature with minimal input from older lithosphere. This signature is in strong contrast to west Java, low-sulfidation epithermal-dominated regions that show strong crustal contamination with average εHf(t) values of -11.5 at Ciemas, west Java (Wu et al., 2019), indicating that crustal composition plays a significant role in mineralization style, but is not a main factor in magma prospectivity.

Apatite textures and compositions are incredibly diverse. Elevated values of Cl and S in magmatic apatite have potential to be useful indicators for eastern Sunda arc porphyry prospectivity; however, those signatures are not ubiquitous to large, mineralized porphyry Cu-Au deposits within the region. Magmatic apatite in early phases at Batu Hijau and Brambang have lower Cl and SO<sub>3</sub> contents than later, syn-mineralization phases. Trace elements of both magmatic and hydrothermal apatites do not show systematic or consistent changes between strongly and poorly mineralized porphyry systems. Within the eastern Sunda arc, hydrothermal apatite compositions are strongly tied to primary magmatic composition, and are influenced, but not entirely a result of, hydrothermal fluid characteristics, potentially limiting the effectiveness of hydrothermal apatite as an exploration tool within the eastern Sunda arc.

The bulk of previous research on rutile in mineral systems has largely focused on orogenic gold (e.g., Clark and Williams-Jones, 2004; Scott, 2007; Agangi et al., 2019; Sciuba and Beaudoin, 2021). Recently, Schirra and Laurent (2021) documented rutile from several giant porphyry systems and showed large ranges in the trace element chemistry from rutile within mineralized systems, including W. Large variations in trace element chemistry are also recorded here at the giant deposits of Batu Hijau, Elang, and Tumpangpitu, in particular with W that often ranges intra-sample over 3-4 orders of magnitude and in higher abundances than other HFSE and large ion elements (i.e., Sn, Nb, Ta).

Schirra and Laurent (2021) documented several generations of hydrothermal rutile associated with different alteration and vein types within porphyry systems. This could explain the large intra-sample variations observed in hydrothermal rutile compositions

within this study (e.g., Elang rutile W compositions: 10 – 50,000 ppm), likely with several different generations of rutile formed under different genetic conditions. However, the use of mineral separates for this study precluded detailed paragenetic studies. Other factors, such as the positive trend of BSE zoned rutile with high-W associated with high-Fe contents, could indicate a change in rutile chemistry from alteration-related rutile resulting from the breakdown of Ti-rich minerals to vein-related rutile associated with mineralizing fluids with high metal contents (e.g. W and Fe).

Laser mapping of rutile grains from this study (Gerbang, Sumbawa) show that zoning in rutile from mineralized intrusions is dominantly a result of W content, locally up to 10 wt. % in brightest sectors in BSE (back-scattered electron imaging). What is significant is a transition from prevalent high-W, zoned rutile at large porphyry deposits, to low-W, unzoned rutile at sub-economic or small porphyry systems within the eastern Sunda arc. The majority of BSE-zoned rutile grains with high-W are associated with < 5 Ma world-class porphyry deposits at Elang, Batu Hijau, and Tumpangpitu. Others have documented similarly large variations in W content in 'ore-zone'-related rutile, particularly the widely-used ternary diagram of Clark and Williams-Jones (2004); however, the relationship of W-rich, BSE zones being most associated with strongly mineralized systems (and not at less prospective systems) has not been previously documented.

Within the eastern Sunda arc, W-rich zoned rutile has the potential to be an effective proxy for porphyry-Cu mineralization, especially pertaining to regional exploration, such as in detrital stream sediment surveys. Zoning in BSE in rutile can be readily observed under the SEM without chemical analysis, with the added benefit that W contents are often in

excess of EMPA detection limits, potentially providing an extremely low-cost method of screening prospective regions to the explorers toolkit, in comparison to traditional, higher-cost laser ablation mineral chemistry methods.

There are; however, further questions pertaining to the usefulness of rutile as an effective porphyry indicator mineral. Is this relationship of high-W, BSE zoned rutile associated with mineralization ubiquitous to the eastern Sunda arc systems, or can it be used in other terranes? Tumpangpitu rutile had a subdued W signature compared to other giant systems (i.e. Elang and Batu Hijau). Are there issues with rutile as an exploration tool in extremely telescoped systems like Tumpangpitu that have a strong high-sulfidation epithermal overprint of porphyry mineralization, potentially affecting rutile chemistry? This study was constrained by the use of mineral separates, which limits contextual genetic information regarding rutile occurrence and formation. Further studies investigating insitu analyses of rutile from different alteration types and porphyry vein styles would be particularly useful to determine if high-W, BSE zoned rutile does indeed have a direct relationship to mineralization and can be used as an effective proxy.

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Appendix A: Eastern Sunda arc sample location data:

Alteration	Sericite-chlorite	Sericite-chlorite	Sericite-chlorite	Sericite chlorite	Sericite-chlorite	Sericite-chlorite	Argillic-advanced	Argillic-intermediate	Argillic-intermediate	Argillic-intermediate	Sericite-chlorite	Potassic	Propylitic-undefined	Unaltered	Sericite-chlorite	Propyllic-underined	Original ed Argillic-informodiate	Propylitic-undefined	Sericite-chlorite	Sericite-chlorite	Propylitic-undefined	Propylitic-undefined	Sericite-chlorite	Propylitic-undefined	Sericite-chlorite	Sericite-chlorite	Propylitic-undefined	Sericite-chlorite	Unaltered	Original ed	Ardillo-advanced	Sericite-chlorite	Argillic-intermediate	Sericite-chlorite	Sericite-chlorite	Propylitic-undefined	Argillic-supergene	Argillic-advanced	Linaltered	Propylitic-undefined	Sericite-chlorite	Sericite-chlorite	Sericite-chlorite	Sericite-chlorite	Unaltered Sericite-chlorite	Araillic-advanced	Argillic-advanced	Silicic	Sericite-chlorite	Sericite-chlorite	Sericite-chlorite
Rock Type	Quartz diorite porphyry	Tonalite	Torrelite	Togethe	Tonalite	Tonalite	Tonalite	Tonalite	Quartz diorite	Quartz diorite porphyry	Tonalite	Quartz diorite porphyry	Quartz diorite porphyry	Quartz diorite	I onalite porphyry	Quartz diorite	Quartz diorite porphyny	Diorite porphyry	Tonalite	Tonalite porphyry	Quartz diorite	Lapilli tuff	Tonalite porphyry	Quartz diorite porphyry	Quartz diorite porphyry	Diorite porphyry	Quartz diorite	Quartz diorite porphyry	Diorite porphyry	Dione politily y	Quartz diorite nombyny	Tonalite porphyry	Tonalite	Tonalite	Tonalite porphyry	Diorite	Diorite	Diorite porphyry	Andesite porphyry	Quartz diorite	Quartz diorite porphyry	Quartz diorite	Diorite	Diorite	Hornblende quartz dionte porpnyry	Dacitic tuff	Andesite porphyry	Breccia	Homblende diorite porphyry	Hornblende diorite Diorite	Diorite
Sample Type	Mine Grab	Mine Grab	Mine Grab	Diamond Core	Diamond Core	Diamond Core	Diamond Core	Diamond Core	Diamond Core	Diamond Core	Outcrop Grab	Outcrop Grab	Diamond Core	Outcrop Grab	Diamond Core	Diamond Core	Outrop Grah	Outcrop Grab	Outcrop Grab	Outcrop Grab	Outcrop Grab	Diamond Core	Diamond Core	Outcrop Grab	Outcrop Grab	Outcrop Grab	Outcrop Grab	Outcrop Grab	Outcrop Grab	Outcrop Grab	Outcrop Grab	Diamond Core	Diamond Core	Diamond Core	Diamond Core	Outcrop Grab	Outcrop Grab	Outcrop Grab	Outcrop Grab	Diamond Core	Diamond Core	Diamond Core	Diamond Core	Diamond Core	Diamond Core	Outcrop Grab	Outcrop Grab	Outcrop Grab	Diamond Core	Diamond Core	Diamond Core
UTM System	WGS 84, UTM 50S	WGS 84, UTM 50S	WGS 84, UTM 505	WGS 64, UTM 505	WGS 84, UTM 50S	Σ	ΣL	M	WGS 84, UTM 50S	<del>2</del> ,	84,	84	¥.	WGS 84, UTM 50S	WGS 84, UTM 50S	WGS 84, UTM 505	ť Z	WGS 84 LITM 50S	<u>4</u>	<b>%</b>	<b>%</b>	¥,	WGS 84, UTM 50S	¥.	Σ Σ	34, UTM	Σ : - E	ž, 3	WGS 84, UTM 505	24, C	84 LTM	7. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5.	34, UTM	¥,	WGS 84, UTM 50S	WGS 84, UTM 50S	WGS 84, UTM 50S	WGS 84, UTM 50S	ť ă	4	ξ. Ž,	¥,	¥,	WGS 84, UTM 50S	4 Y	ţ 4	. 4	4		WGS 84, UTM 49S	WGS 84, UTM 49S
UTM North	9009438.0	9008842.0	9008999.0	9009991.0	9009097.0	9009251.0	0.6686006	9009849.0	9009764.0	9009770.0	9074538.4	9074525.1	9088663.0	9033834.0	9028323.4	9028802.0	9029391.7	9029240.0	9029222.0	9029154.0	9021229.0	9029159.0	9028318.4	9025149.0	9025238.0	9031776.0	9021114.0	9021127.0	9031179.0	9033238.0	9031897.0	9029159.0	9028323.4	9028381.7	9028318.4	9020640.0	9021924.0	901/835.0	90797950	9011256.0	9011046.0	9011108.0	9011188.0	9009541.0	9009573.0	9103437.0	9109659.0	9097341.0	9138115.2	9138115.2	9138115.2
UTM East	485966.0	485477.0	485430.0	400007.0	541250.0	541700 0	541873.0	541916.0	541726.0	541722.0	811036.8	811043.1	569926.0	399469.0	379616.0	382011.0	300485.0	3784410	379012.0	379006.0	390867.0	379003.9	379615.7	407704.0	407674.0	409009.0	390911.0	390879.0	406947.0	406633.0	409114.0	379003.9	379616.0	379933.0	379615.7	389266.0	391104.0	421851.0	698723.0	480358.0	480347.0	480349.0	480352.0	483003.0	482349.0	530489.0	536968.0	546107.0	486174.4	486174.4	486174.4
DDH Depth			070	1167	1356	101	167	301.5	177.5	193.6			520		441	299	5					130	437									20	627	229	443					099	265	390	240	453	260 548	2			9.5	59.5 79	9.88
Hole ID			7000	200731	2005-0-10	DI D-452	DLD-206	DLD-206	DLD-139	DLD-139			TRDD-054		BDH-013	400-100						BDH-003	BDH-007									BDH-003	BDH-013	BDH-011	BDH-007					BND-002	BND-002	BND-002	BND-002	SGD-010	SGD-008				WDD08	WDD08	WDD08
Site	Batu Hijau	Batu Hijau	Batu Hijau	Datu rijau Flang	Fland	Fland	Gerbang	Gerbang	Gerbang	Gerbang	Jember	Jember	Jerambah	Lembar	Central Brambang	Permula Central Prombona	Lembar	NW Bramband	NW Bramband	NW Brambang	Montong Botek	NW Brambang	Central Brambang	Songkang	Songkang	Plambik	Montong Botek	Montong Botek	Plambik	Sonakana	Plambik	NW Brambang	Central Brambang	Central Brambang	Central Brambang	Belikat	Blongas	Kuta	Maland	Nanaka	Nangka	Nangka	Nangka	Naga Emas	Naga Emas Naga Emas	Pacitan	Pacitan	Ponorogo	Selogiri	Selogiri	Selogiri
Region	Sumpawa	Sumbawa	Sumbawa	Sumbawa	Sumbawa	Sumbawa	Sumbawa	Sumbawa	Sumbawa	Sumbawa	Eastern Java	Eastern Java	Eastern Java	Lombok	Lombok	Lombok	Lombok	Compok	Lombok	Lombok	Lombok	Lombok	Lombok	Lombok	Lombok	Lombok	Lombok	Lombok	Lombok	Lombok	Combok	Lombok	Lombok	Lombok	Lombok	Lombok	Lombok	Lombok	Fastern Java	Sumbawa	Sumbawa	Sumbawa	Sumbawa	Sumbawa	Sumbawa	Fastern Java	Eastern Java	Eastern Java	Eastern Java	Eastern Java	Eastern Java
Sample ID	BHF-01	BHF-02	BHF-03	45	FIF-02	FI F-03	GBF-01	GBF-02	GBF-03	GBF-04	JEM-01	JEM-02	JER-01	LB001	LB002	LB000	LB010	LB011	LB014	LB015	LB018	LB022	LB024	LB025	LB026	LB027	LB028	LB029	LB030	LB031	L B033	LB034	LB036	LB037	LB041	LB042	LB043	LB044	M 0-5	NAF-01	NAF-02	NAF-03	NAF-04	NEF-01	NEF-02	PCT-01	PCT-02	PNG-01	SEF-01	SEF-02	SEF-04

## Appendix A: Eastern Sunda arc sample location data:

Sample ID	Region	Site	Hole ID	DDH Depth	UTM East	UTM North	UTM System	Sample Type	Rock Type	Alteration
SEF-04	Eastern Java	Selogiri	WDD08	88.6	486174.4	9138115.2	WGS 84, UTM 49S	Diamond Core	Diorite	Sericite-chlorite
SINA-01	Eastern Java	Sinawang			632258.6	9085249.2	WGS 84, UTM 49S	Outcrop Grab	Quartz diorite porphyry	Argillic-advanced
SINA-02	Eastern Java	Sinawang			632240.3	9085239.1	WGS 84, UTM 49S	Outcrop Grab	Quartz diorite porphyry	Argillic-advanced
SINA-04	Eastern Java	Sinawang			632220.8	9085205.2		Outcrop Grab	Quartz diorite porphyry	Argillic-advanced
SINA-05	Eastern Java	Sinawang			632208.2	9085218.3		Outcrop Grab	Quartz diorite porphyry	Argillic-advanced
SING-01	Eastern Java	Singgahan	TRDD-057		574956.0	9088554.0		Diamond Core	Tonalite porphyry	Sericite-chlorite
SING-02	Eastern Java	Singgahan	TRDD-057	351.5	574956.0	9088554.0	_	Diamond Core	Tonalite porphyry	Sericite-chlorite
SLG-01	Eastern Java	Selogiri			486416.0	9138208.0	WGS 84, UTM 49S	Outcrop Grab	Quartz diorite porphyry	Argillic-advanced
SLG-02	Eastern Java	Selogiri			486332.0	9138152.0	WGS 84, UTM 49S	Outcrop Grab	Homblende diorite porphyry	Argillic-intermediate
SLG-03	Eastern Java	Selogiri			486450.0	9138298.0	WGS 84, UTM 49S	Outcrop Grab	Diorite	Propylitic-undefined
SPF-01	Sumbawa	Sepekat	DKD-016	261.1	542918.0	9012519.0	WGS 84, UTM 50S	Diamond Core	Quartz diorite	Sericite-chlorite
SPF-02	Sumbawa	Sepekat	DKD-016	458	543074.0	9012525.0	WGS 84, UTM 50S	Diamond Core	Diorite	Sericite-chlorite
SPF-03	Sumbawa	Sepekat	DKD-011	148	542681.0	9011557.0	WGS 84, UTM 50S	Diamond Core	Quartz diorite	Unaltered
SPF-04	Sumbawa	Sepekat	DKD-016	523	543100.0	9012526.0	ξ	Diamond Core	Quartz diorite	Unaltered
SPF-05	Sumbawa	Sepekat	DKD-011	22	542744.0	9011555.0		Diamond Core	Quartz diorite	Sericite-chlorite
SPF-06	Sumbawa	Sepekat	DKD-016	229	543125.0	9012526.0		Diamond Core	Intrusive breccia	Potassic
TR-01	Eastern Java	Jerambah			569835.0	9090180.0		Outcrop Grab	Quartz diorite porphyry	Sericite-chlorite
TR-02	Eastern Java	Kali Petang			566578.0	9088021.0		Outcrop Grab	Quartz diorite	Propylitic-undefined
TR-03	Eastern Java	Singgahan			575178.0	9088243.0	_	Outcrop Grab	Diorite	Sericite-chlorite
TR-04	Eastern Java	Kebo Gemulung			581658.0	9083063.0		Outcrop Grab	Diorite	Sericite-chlorite
TR-05	Eastern Java	Kebo Gemulung			581741.0	9083087.0	WGS 84, UTM 49S	Outcrop Grab	Quartz diorite porphyry	Sericite-chlorite
UG012183	Eastern Java	Tumpangpitu	UHGZ-20-010	320				Diamond Core	Diorite porphyry	Argillic-advanced
UG012184	Eastern Java	Tumpangpitu	UGTH-19-013	88				Diamond Core	Diorite porphyry	Argillic-advanced
UG012185	Eastern Java	Tumpangpitu	UGTH-19-013	206				Diamond Core	Tonalite	Argillic-advanced
UG012186	Eastern Java	Tumpangpitu	UGTH-19-013	702				Diamond Core	Diorite porphyry	Argillic-advanced
UG012187	Eastern Java	Tumpangpitu	0HGZ-19-006	28				Diamond Core	Diorite porphyry	Argillic-advanced
UG012188	Eastern Java	Tumpangpitu	0HGZ-19-006	999				Diamond Core	Tonalite	Argillic-advanced
UG012189	Eastern Java	Tumpangpitu	UHGZ-20-018	124				Diamond Core	Tonalite	Argillic-advanced
UG012190	Eastern Java	Tumpangpitu	UHGZ-20-018	322				Diamond Core	Tonalite	Argillic-advanced
UG012191	Eastern Java	Tumpangpitu	UHGZ-20-018	250				Diamond Core	Diorite porphyry	Argillic-advanced
UG012192	Eastern Java	Tumpangpitu	UHGZ-19-001	929				Diamond Core	Diorite porphyry	Argillic-advanced
UG012193	Eastern Java	Tumpangpitu	UHGZ-19-005	22				Diamond Core	Diorite porphyry	Argillic-advanced
UG012194	Eastern Java	Tumpangpitu	UHGZ-19-005	288				Diamond Core	Diorite porphyry	Argillic-intermediate
UG012195	Eastern Java	Tumpangpitu	UHGZ-19-002A	210				Diamond Core	Diorite porphyry	Argillic-advanced
UG012196	Eastern Java	Tumpangpitu	UHGZ-19-002A	710				Diamond Core	Tonalite porphyry	Argillic-advanced
UG012197	Eastern Java	Tumpangpitu	UHGZ-20-016	424				Diamond Core	Tonalite	Argillic-advanced
UG012198	Eastern Java	Tumpangpitu	UHGZ-20-016	929				Diamond Core	Diorite porphyry	Argillic-advanced
UG012199	Eastern Java	Salakan	SND-12-001	112				Diamond Core	Tonalite porphyry	Argillic-advanced
UG012200	Eastern Java	Salakan	SND-12-001	222				Diamond Core	Tonalite	Argillic-advanced
UG012201	Eastern Java	Salakan	SND-12-001	440				Diamond Core	Tonalite	Argillic-advanced
UG012202	Eastern Java	Salakan	SND-12-001	916				Diamond Core	Tonalite porphyry	Argillic-advanced

Appendix A: Eastern Sunda arc whole-rock geochemistry

		Sample ID	SiO2	AI203	Fe203	MgO	CaO	Na2O	K20	Ti02	P205	MnO	Cr203	ΓO	TOTAL C	TOTAL S	Sum
667         1646         560         144         440         670         674         0.14         0.04         0.05<	667         1164         588         148         4105         669         0.03         0.01         0.00         0.00         0.02         0.03         0.01           721         1166         3.96         116         1.56         1.56         0.04 <td>BHF-01</td> <td>68.8</td> <td>16.55</td> <td>2.15</td> <td>1.54</td> <td>1.69</td> <td>5.8</td> <td>29.0</td> <td>0.4</td> <td>0.17</td> <td>0.02</td> <td>0.002</td> <td>1.54</td> <td>90.0</td> <td>0.22</td> <td>99.39</td>	BHF-01	68.8	16.55	2.15	1.54	1.69	5.8	29.0	0.4	0.17	0.02	0.002	1.54	90.0	0.22	99.39
7.6         7.6 <td>7.2.1         1.6.5         3.89         1.34         4.79         0.44         0.34         0.14         0.07         0.00         0.00         0.19         0.15           7.2.1         1.16         5.27         1.42         1.49         1.49         1.49         0.43         0.04         0.00         <td< td=""><td>BHF-02</td><td>65.7</td><td>16.45</td><td>5.02</td><td>1.45</td><td>4.03</td><td>5.03</td><td>0.54</td><td>0.37</td><td>0.18</td><td>90.0</td><td>0.002</td><td>0.63</td><td>0.04</td><td>90.0</td><td>99.55</td></td<></td>	7.2.1         1.6.5         3.89         1.34         4.79         0.44         0.34         0.14         0.07         0.00         0.00         0.19         0.15           7.2.1         1.16         5.27         1.42         1.49         1.49         1.49         0.43         0.04         0.00 <td< td=""><td>BHF-02</td><td>65.7</td><td>16.45</td><td>5.02</td><td>1.45</td><td>4.03</td><td>5.03</td><td>0.54</td><td>0.37</td><td>0.18</td><td>90.0</td><td>0.002</td><td>0.63</td><td>0.04</td><td>90.0</td><td>99.55</td></td<>	BHF-02	65.7	16.45	5.02	1.45	4.03	5.03	0.54	0.37	0.18	90.0	0.002	0.63	0.04	90.0	99.55
72         100         81         113         116         115         116         115         116         115         116         115         116         115         116         115         116         116         116         116         117         116         117         116         118	72.1         110.66         91.3         1.38         1.35         1.36         1.35         0.19         0.05         0.01         0.002         3.00         0.13           72.1         110.66         91.3         1.43         1.45         1.45         1.45         1.45         0.14         0.00	BHF-03	8.99	16.5	3.99	1.34	4.23	4.79	0.44	0.34	0.16	0.07	0.002	1.99	0.21	90.0	100.75
71.2         71.6 <th< td=""><td>712         118         527         142         338         356         057         028         056         050<td>BHF-04</td><td>72.1</td><td>10.65</td><td>9.13</td><td>1.33</td><td>1.16</td><td>1.5</td><td>1.35</td><td>0.19</td><td>0.08</td><td>0.12</td><td>0.002</td><td>3.09</td><td>0.1</td><td>1.95</td><td>100.75</td></td></th<>	712         118         527         142         338         356         057         028         056         050 <td>BHF-04</td> <td>72.1</td> <td>10.65</td> <td>9.13</td> <td>1.33</td> <td>1.16</td> <td>1.5</td> <td>1.35</td> <td>0.19</td> <td>0.08</td> <td>0.12</td> <td>0.002</td> <td>3.09</td> <td>0.1</td> <td>1.95</td> <td>100.75</td>	BHF-04	72.1	10.65	9.13	1.33	1.16	1.5	1.35	0.19	0.08	0.12	0.002	3.09	0.1	1.95	100.75
(88)         9.84         7.51         1.56         3.33         1.75         1.46         0.25         0.00 <th< td=""><td>686         944         751         148         3.33         173         115         0.05         0.05         0.00         0.00         0.05&lt;</td><td>ELF-01</td><td>71.2</td><td>11.8</td><td>5.27</td><td>1.42</td><td>3.88</td><td>3.56</td><td>0.57</td><td>0.28</td><td>0.05</td><td>0.03</td><td>&lt;0.002</td><td>3.82</td><td>0.13</td><td>1.9</td><td>101.92</td></th<>	686         944         751         148         3.33         173         115         0.05         0.05         0.00         0.00         0.05<	ELF-01	71.2	11.8	5.27	1.42	3.88	3.56	0.57	0.28	0.05	0.03	<0.002	3.82	0.13	1.9	101.92
(43)         (7,7)         (6,14)         2.41         3.49         458         0.49         0.44         0.002         4.59         0.04         0.01         0.002         4.59         0.01         0.01         0.002         4.59         0.01         0.02         4.02         0.01         0.01         0.02         0.03	633         17/15         613         241         349         458         0.043         0.01         0.002         2.22         0.003         18         0.04         0.01         0.002         4.95         0.003         18         0.04         0.01         0.002         4.95         0.003         18         0.04         0.01         0.002         4.95         0.003         1.04         0.003         4.95         0.003         4.05         0.003         4.05         0.003         4.05         0.003         4.05         0.003         4.05         0.003         4.04         0.003	ELF-02	9.89	9.94	7.51	1.66	3.33	1.73	1.15	0.25	0.05	0.09	0.002	5.05	0.25	4.39	99.39
7/1         1 0.6         6/1         0.04         0.11         0.05         0.04         0.11         0.02         4.9         0.03         7.6           6/1         1 1.0         6/1         0.04 </td <td>77.1         10.6         6.18         0.24         0.11         0.03         11.00         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.02         4.9         0.03           9.0         1.15.         1.05         0.02         0.04         0.02         0.04         0.03         0.02         0.03         0.04         0.04         0.03         0.04         0.</td> <td>ELF-03</td> <td>63.3</td> <td>17.15</td> <td>6.13</td> <td>2.41</td> <td>3.49</td> <td>4.58</td> <td>0.86</td> <td>0.43</td> <td>0.11</td> <td>0.04</td> <td>0.002</td> <td>2.32</td> <td>0.07</td> <td>0.49</td> <td>100.89</td>	77.1         10.6         6.18         0.24         0.11         0.03         11.00         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.02         4.9         0.03           9.0         1.15.         1.05         0.02         0.04         0.02         0.04         0.03         0.02         0.03         0.04         0.04         0.03         0.04         0.	ELF-03	63.3	17.15	6.13	2.41	3.49	4.58	0.86	0.43	0.11	0.04	0.002	2.32	0.07	0.49	100.89
643         117         1035         0.98         0.02         102         0.08         0.05         0.002         7.43         0.43         0.14           643         4117         11.55         0.98         0.04         0.08         0.05         0.00         0.07         0.03         0.04	March   Marc	GBF-01	76.1	10.6	6.18	0.24	0.11	0.3	1.08	0.25	0.1	0.01	0.002	4.9	0.03	5.06	99.89
607         (44)         (145)         (146)         (146)         (146)         (146)         (146)         (146)         (146)         (146)         (146)         (146)         (147)         (146)         (147)         (146)         (147)         (148)         (147)         (148)         (147)         (147)         (147)         (147)         (147)         (147)         (147)         (147)         (147)         (147)         (147)         (147)         (147)         (147)         (147)         (148)         (147)         (1	690         1436         1486         044         028         014         028         014         028         014         028         014         028         014         028         014         000         642         027           600         1425         583         119         112         427         108         014         004         000         014         000         027         000         027         000         014         000         014         000         014         000         000         014         000         000         014         000         000         014         000         000         014         000         000         014         000         000         014         000         000         014         000 <td>GBF-02</td> <td>64.3</td> <td>11.7</td> <td>10.75</td> <td>0.99</td> <td>0.2</td> <td>0.65</td> <td>1.02</td> <td>0.81</td> <td>90.0</td> <td>0.25</td> <td>&lt;0.002</td> <td>7.48</td> <td>0.43</td> <td>7.16</td> <td>98.22</td>	GBF-02	64.3	11.7	10.75	0.99	0.2	0.65	1.02	0.81	90.0	0.25	<0.002	7.48	0.43	7.16	98.22
519         16.5         3.86         13.6         3.82         13.6         3.82         13.6         3.82         13.6         3.82         13.6         3.82         13.6         13.6         13.6         13.6         0.04         0.04         0.02         4.75         0.04         0.04         0.05	1.   1.   1.   1.   1.   1.   1.   1.	GBF-03	2.09	14.9	11.35	4.65	0.44	0.28	1.22	0.79	0.14	0.25	0.002	6.52	0.22	1.37	101.25
60.0         14.2         5.2         14.2	60.9         14.5         15.9         14.2         42.7         10.2         0.04         0.04         0.04         0.02         47.5         0.02           63.8         15.5         63.9         15.5         14.2         3.2         0.09         0.45         0.17         0.02         0.00         14.7         0.00           64.9         15.5         10.1         3.2         5.5         3.2         0.09         0.45         0.17         0.00         2.5         0.00         0.00         0.01         0.00         2.5         0.00	GBF-04	53.9	16.35	13.05	3.82	2.56	1.88	0.12	8.0	90.0	0.13	0.003	7.67	0.27	0.57	100.34
64.8         16.3         62.7         23.6         64.4         3.2         0.04         0.15         0.00         0.15         0.00         0.15         0.00         0.15         0.00         0.15         0.00         0.15         0.00         0.15         0.00         0.15         0.00         0.15         0.00         0.15         0.00         0.15         0.00         0.15         0.00         0.15         0.00         0.15         0.00         0.00         0.15         0.00         0.15         0.00	64.8         15.7         2.89         4.44         3.29         0.05         0.05         0.03         0.01         0.02         0.00         0.04           64.4         15.7         4.86         15.7         2.89         6.44         3.29         0.05         0.	JEM-01	6.09	14.25	8.36	1.9	1.12	4.27	1.02	0.94	0.44	0.04	0.002	4.75	0.02	4.34	98.02
644         167         486         169         645         0.45         0.14         0.07         2.65         0.04         0.14           644         165         165         161         3.2         6.45         0.15         0.15         0.01         0.02         0.00         0.01         0.01         0.02         0.00         0.02         0.00         0.01         0.01         0.02         0.00         0.02         0.00         0.02         0.00         0.02         0.00         0.02         0.00	644         157         488         158         55         3.29         0.69         0.45         0.17         0.00         2.55         0.04           644         155         488         158         576         234         234         0.75         0.47         0.17         0.02         4002         2.55         0.04           643         1556         617         234         234         0.75         0.47         0.15         0.12         4002         2.55         0.04           643         1566         628         224         234         0.75         0.15         0.10         0.00         2.55         0.00           96         1566         628         224         234         1.13         0.65         0.11         0.15         0.00         0.00         0.15         0.00	JEM-02	63.8	16.3	5.27	2.38	4.44	3.23	0.95	0.53	0.17	0.02	0.003	1.98	0.04	0.15	99.11
45         16.5         10.1         3.2         5.4         0.35         0.4         0.1         0.2         0.4         0.1         0.2         0.4         0.1         0.2         0.4         0.1         0.2         0.4         0.1         0.2         0.4         0.1         0.2         0.4         0.2         0.0         0.2         0.0         0.2         0.0         0.2         0.0         0.0         0.1         0.0         0.1         0.0         0.1         0.0         0.1         0.0         0.1         0.0         0.1         0.0         0.1         0.0         0.1         0.0         0.0         0.1         0.0 </td <td>59         15.5         10.1         3.2         5.4         0.35         0.05         0.02         0.02         0.02         0.01         0.02         0.01         0.02         0.01         0.02         0.01         0.02         0.01         0.02         0.01         0.02         0.01         0.02         0.01         0.02         0.01         0.02         0.0</td> <td>JER-01</td> <td>64.4</td> <td>15.7</td> <td>4.86</td> <td>1.98</td> <td>5.5</td> <td>3.29</td> <td>69.0</td> <td>0.45</td> <td>0.12</td> <td>0.13</td> <td>0.007</td> <td>2.55</td> <td>0.04</td> <td>1.04</td> <td>99.76</td>	59         15.5         10.1         3.2         5.4         0.35         0.05         0.02         0.02         0.02         0.01         0.02         0.01         0.02         0.01         0.02         0.01         0.02         0.01         0.02         0.01         0.02         0.01         0.02         0.01         0.02         0.01         0.02         0.0	JER-01	64.4	15.7	4.86	1.98	5.5	3.29	69.0	0.45	0.12	0.13	0.007	2.55	0.04	1.04	99.76
64.9         15.3         5.76         2.44         2.93         3.44         0.75         0.74         0.15         0.22         0.02         0.02         0.02         0.02         0.02         0.02         0.02         0.02         0.03         0.04         0.03         0.04 <th< td=""><td>  Heat   Heat  </td><td>LB001</td><td>29</td><td>15.5</td><td>10.1</td><td>3.2</td><td>5.41</td><td>3.43</td><td>0.35</td><td>9.0</td><td>0.11</td><td>0.2</td><td>&lt;0.002</td><td>2.55</td><td>0.1</td><td>0.01</td><td>100.5</td></th<>	Heat	LB001	29	15.5	10.1	3.2	5.41	3.43	0.35	9.0	0.11	0.2	<0.002	2.55	0.1	0.01	100.5
64.7         159.6         61.7         34.3         72.3         3.2         0.04         0.75         0.15         0.00         5.68         0.01         5.11           64.3         15.9         6.0         1.5         3.4         7.2         3.9         0.84         0.7         0.1         0.0	Mathematical Color   Mathema	LB002	64.9	15.3	5.76	2.34	2.93	3.48	0.75	0.47	0.13	0.22	<0.002	5.42	0.22	0.23	101.75
64.3         15.9         62.2         21.6         5.35         3.99         0.64         0.15         0.16         0.19 <th< td=""><td>643 159 662 216 535 339 066 015 019 60002 159 009 668 17 0 14 0 101 0101 01002 159 009 688 17 0 86 22 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2</td><td>LB005</td><td>54.7</td><td>15.95</td><td>8.17</td><td>3.43</td><td>7.23</td><td>3.21</td><td>0.48</td><td>0.79</td><td>0.15</td><td>0.22</td><td>0.002</td><td>5.68</td><td>0.01</td><td>5.31</td><td>100.07</td></th<>	643 159 662 216 535 339 066 015 019 60002 159 009 668 17 0 14 0 101 0101 01002 159 009 688 17 0 86 22 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	LB005	54.7	15.95	8.17	3.43	7.23	3.21	0.48	0.79	0.15	0.22	0.002	5.68	0.01	5.31	100.07
98         17         86         3.28         2.2         4.6         0.54         0.64         0.14         0.16         0.01         0.02         4.6         0.14         0.14         0.14         0.02         3.6         0.13         0.02         0.03	988         17         88         3.28         2         467         054         066         011         010         010         040         010           688         1586         626         247         054         113         056         011         015         0002         349         001           688         1406         677         034         18         486         153         113         257         488         223         016         017         0002         234         010           642         135         848         19         13         18         486         16         017         0002         274         017           642         135         848         17         14         14         249         065         013         017         0002         249         001         017         0002         249         001           643         177         616         273         249         026         013         017         0002         249         017         017         0002         249         017           643         177         616         273         249         027	FB009	64.3	15.9	6.02	2.16	5.35	3.99	0.85	0.5	0.15	0.19	<0.002	1.59	0.09	0.18	101.08
59         1566         624         242         139         113         065         011         015         0002         3.5         013         013         014 <td>6.8 1 15.6 6.7 2 2.8 13.0 113 0.66 0.1 1 0.16 0.00 2 3.6 0.13  6.8 1 14.5 6.7 2.00 2 2.7 2.8 2.8 113 0.66 0.11 0.08 0.00 2 3.6 0.13  6.2 1 15.1 1 2 2.00 2 2.7 4.86 2.23 0.55 0.19 0.17 0.08 2.00 2 3.9 0.01  6.2 1 15.1 1 1 2.12 2.13 2.13 2.14 0.09 0.13 0.17 0.00 0.00 2.29 0.00  6.2 1 19.1 1 1 2.12 2.13 2.14 2.14 0.09 0.13 0.17 0.00 0.00 2.20  6.2 1 19.1 1 1 2.12 2.13 2.14 2.14 0.09 0.13 0.11 0.00 0.00 2.20  6.2 1 14.1 1 2.12 2.13 2.14 2.14 0.09 0.13 0.11 0.00 0.14 4.71 0.17  6.2 1 14.2 1.2 2.2 2.3 2.6 1.14 0.09 0.13 0.11 0.00 0.14 4.31 0.17  6.2 1 1.1 1 1 2.1 2.1 2.1 2.1 2.1 2.1 2.1</td> <td>LB010</td> <td>59.8</td> <td>17</td> <td>8.6</td> <td>3.28</td> <td>2</td> <td>4.67</td> <td>0.54</td> <td>0.66</td> <td>0.1</td> <td>0.11</td> <td>0.003</td> <td>4.6</td> <td>0.03</td> <td>0.02</td> <td>101.39</td>	6.8 1 15.6 6.7 2 2.8 13.0 113 0.66 0.1 1 0.16 0.00 2 3.6 0.13  6.8 1 14.5 6.7 2.00 2 2.7 2.8 2.8 113 0.66 0.11 0.08 0.00 2 3.6 0.13  6.2 1 15.1 1 2 2.00 2 2.7 4.86 2.23 0.55 0.19 0.17 0.08 2.00 2 3.9 0.01  6.2 1 15.1 1 1 2.12 2.13 2.13 2.14 0.09 0.13 0.17 0.00 0.00 2.29 0.00  6.2 1 19.1 1 1 2.12 2.13 2.14 2.14 0.09 0.13 0.17 0.00 0.00 2.20  6.2 1 19.1 1 1 2.12 2.13 2.14 2.14 0.09 0.13 0.11 0.00 0.00 2.20  6.2 1 14.1 1 2.12 2.13 2.14 2.14 0.09 0.13 0.11 0.00 0.14 4.71 0.17  6.2 1 14.2 1.2 2.2 2.3 2.6 1.14 0.09 0.13 0.11 0.00 0.14 4.31 0.17  6.2 1 1.1 1 1 2.1 2.1 2.1 2.1 2.1 2.1 2.1	LB010	59.8	17	8.6	3.28	2	4.67	0.54	0.66	0.1	0.11	0.003	4.6	0.03	0.02	101.39
68.8         14.0         6.7         0.34         1.8         4.66         1.61         0.41         0.002         27.4         0.01         0.00           64.2         14.9         17.3         2.09         2.7         4.8         1.61         0.14         0.00         2.7         0.00           64.2         13.9         8.4         1.9         2.7         2.89         0.28         0.15         0.17         0.00         2.4         0.00         0.00         2.4         0.00         0.00         2.4         0.00	Heap	LB011	29	15.95	6.26	2.42	5.9	3.13	1.13	0.65	0.11	0.15	0.002	3.6	0.13	0.01	98.42
62.1         15.1         7         0.00         2.57         4.86         2.23         0.15         0.17         0.002         2.64         0.00           64.2         19.1         1.9         2.73         2.79         2.68         0.15         0.15         0.00         2.64         0.00           64.2         19.1         11         2.12         2.13         2.79         2.69         0.13         0.11         0.004         4.71         0.17         0.00           64.2         19.1         11.4         2.12         2.13         2.79         2.69         0.13         0.11         0.004         4.71         0.17         0.10           68.3         17.7         6.16         2.96         0.26         0.26         0.16         0.14         0.004         4.71         0.17         0.17           68.4         17.5         6.14         2.96         2.26         0.27         0.16         0.14         0.00         0.17         0.12         0.01         0.01         0.17         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01	62.1         15.1         7         2.09         2.57         4.88         2.23         6.55         0.19         0.17         <0.002         3.9         0.01           64.2         13.9         8.48         1.3         2.78         2.88         0.65         0.15         0.02         0.002         3.9         0.01           64.2         19.1         1.1         2.1         2.78         2.89         0.65         0.15         0.02         0.002         2.81         0.01           64.2         19.1         1.1         2.89         0.13         0.14         0.02         0.002         0.00         4.71         0.17           68.3         17.7         6.16         2.99         0.22         0.04         0.13         0.14         0.00         4.71         0.17           68.4         17.5         6.16         2.99         0.07         0.02         0.00         4.71         0.17           68.4         17.5         1.44         3.22         2.51         0.65         0.13         0.01         0.00         4.71         0.17           68.4         1.65         1.75         2.14         3.22         2.51         0.65         0.	LB014	68.8	14.05	6.77	0.34	1.8	4.65	1.61	0.46	0.11	0.08	<0.002	2.74	0.01	0.02	101.48
642         139         848         19         23         279         268         0.65         0.05         264         0.05         0.05         264         0.05	64.2         13.9         84.8         1.9         2.3         2.79         2.68         0.63         0.15         0.00         2.64         0.03           62.5         13.2         8.6         1.79         2.49         0.88         0.13         0.13         0.00         2.64         0.03           62.5         13.2         2.6         2.6         2.6         2.6         2.6         0.7         0.04         4.71         0.17           68.1         1.65         5.8         2.6         2.6         2.6         0.2         0.05         0.14         0.00         4.71         0.17           68.4         1.75         1.14         7.49         0.86         0.16         0.14         0.00         4.71         0.17           68.4         1.75         1.14         7.49         2.89         0.75         0.14         0.00         2.49         0.05           68.4         1.75         1.14         7.49         2.89         0.05         0.07         0.14         0.00         0.14         0.00           68.4         1.75         1.14         7.7         1.14         0.75         0.13         0.17         0.00         0.17	LB015	62.1	15.1	7	2.09	2.57	4.88	2.23	0.55	0.19	0.17	<0.002	3.9	<0.01	0.05	100.88
54.2         19.9         11         2.1         2.1         2.1         2.4         0.04         0.13         0.02         <0.00         4.5         0.12         0.00         4.5         0.13         0.14         0.04         0.14         0.04         0.14         0.00         4.7         0.17         0.13         0.14         0.00         4.7         0.14         0.14         0.00         0.14         0.00         4.7         0.14         0.00         0.14         0.00         0.14         0.00         0.14         0.00         0.14         0.00         0.14         0.00         0.14         0.00         0.14         0.00         0.14         0.00         0.14         0.00         0.14         0.00         0.14         0.00         0.14         0.00         0.14         0.00	642         191         11         212         213         371         249         0.88         0.13         0.22         <0.002         451         0.12           625         1326         632         268         1.75         287         1.44         0.89         0.13         0.12         <0.004         4.71         0.17           63.1         16.56         5.88         3.06         4.14         3.32         0.65         0.07         0.12         0.004         4.71         0.17           63.4         17.5         61.6         2.91         3.66         2.26         0.75         0.12         0.004         4.71         0.17           63.4         17.5         61.6         2.91         2.66         2.66         0.17         0.12         0.004         4.71         0.17           63.4         17.5         17.4         2.94         2.95         2.19         0.66         0.13         0.14         0.004         4.71         0.17           63.4         17.5         17.4         2.94         2.95         2.94         0.75         0.13         0.17         0.002         0.002         0.002         0.002         0.002         0.002	LB018	64.2	13.9	8.48	1.9	2.3	2.79	2.68	0.63	0.15	0.2	0.005	2.64	0.03	0.02	99.95
8.2.         13.26         8.6.2         2.6.8         1.75         2.87         1.14         0.49         0.13         0.11         0.004         4.71         0.17         0.91           8.8.3         1.7.6         6.56         3.96         4.14         3.32         0.49         0.64         0.12         0.004         4.34         0.17         0.19           8.8.3         17.7         6.66         2.96         0.26         0.65         0.12         0.002         3.64         0.01           4.44         17.5         1.14         2.49         0.65         0.14         0.002         3.65         0.07         0.12         0.002         3.64         0.01         0.01         0.02         0.07         0.02         0.02         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.02         0.02         0.02         0.02         0.02         0.02         0.02         0.02         0.03         0.03         0.04         0.02         0.02         0.02         0.02         0.02         0.02         0.02         0.02         0.02         0.02         0.02         0.02         0.02         0.02         <	8.5         13.5         8.6         1.75         2.87         114         0.49         0.13         0.11         0.004         4.71         0.17           6.3.1         1.65         6.58         3.06         1.75         1.44         3.22         0.49         0.54         0.15         0.14         0.004         4.71         0.17           6.8.3         1.7.7         6.16         2.91         9.66         2.26         0.07         0.25         0.02         3.4         0.17           6.4         1.7.5         1.14         7.49         9.96         2.26         0.27         0.07         0.27         0.02         0.07 <td>LB022</td> <td>54.2</td> <td>19.1</td> <td>1</td> <td>2.12</td> <td>2.13</td> <td>3.71</td> <td>2.49</td> <td>0.98</td> <td>0.13</td> <td>0.22</td> <td>&lt;0.002</td> <td>4.51</td> <td>0.12</td> <td>0.73</td> <td>100.65</td>	LB022	54.2	19.1	1	2.12	2.13	3.71	2.49	0.98	0.13	0.22	<0.002	4.51	0.12	0.73	100.65
631         16.96         5.68         3.06         4.14         3.32         0.49         0.54         0.15         0.004         4.34         0.12         0.004         4.34         0.12         0.005         4.34         0.12         0.005         4.34         0.12         0.005         4.34         0.12         0.005         4.34         0.01         0.005         2.44         0.01         0.005         0.005         2.44         0.01         0.005         0.005         2.44         0.01         0.005         0.005         0.00         0.005         0.00 <td>631         1695         558         306         414         332         049         054         015         0004         434         012           68.9         177         61.6         231         686         226         027         065         016         014         0002         305         007           48.4         17.55         11.4         749         966         226         026         017         025         0002         3.06         0.07           64         16         17.5         17.4         749         376         0.86         0.1         0.25         0.003         2.76         0.01           64         16.8         3.1         4.01         7.74         3.16         0.86         0.07         0.2         0.00         2.76         0.00           65.4         1.275         1.24         7.78         3.76         0.84         0.75         0.14         0.00</td> <td>LB024</td> <td>62.5</td> <td>13.25</td> <td>8.52</td> <td>2.68</td> <td>1.75</td> <td>2.87</td> <td>1.14</td> <td>0.49</td> <td>0.13</td> <td>0.11</td> <td>0.004</td> <td>4.71</td> <td>0.17</td> <td>0.91</td> <td>98.19</td>	631         1695         558         306         414         332         049         054         015         0004         434         012           68.9         177         61.6         231         686         226         027         065         016         014         0002         305         007           48.4         17.55         11.4         749         966         226         026         017         025         0002         3.06         0.07           64         16         17.5         17.4         749         376         0.86         0.1         0.25         0.003         2.76         0.01           64         16.8         3.1         4.01         7.74         3.16         0.86         0.07         0.2         0.00         2.76         0.00           65.4         1.275         1.24         7.78         3.76         0.84         0.75         0.14         0.00	LB024	62.5	13.25	8.52	2.68	1.75	2.87	1.14	0.49	0.13	0.11	0.004	4.71	0.17	0.91	98.19
68.9         17.7         6.16         9.96         2.26         0.27         0.65         0.14         <0.002         3.05         0.07         0.12           68.4         17.56         11.4         7.49         9.96         2.09         0.27         0.65         0.01         0.02         0.03         0.07         0.02           63.4         14.5         9.13         2.5         2.13         1.84         4.37         0.65         0.11         0.02         0.03         0.07         0.01           63.4         14.5         9.13         2.74         0.14         0.02         0.03         2.76         0.03         0.01         0.01         0.02         0.03         0.04         0.01         0.01         0.02         0.02         0.01         0.01         0.01         0.01         0.01         0.01         0.02         0.01 </td <td>58.9         17.7         6.16         2.91         9.66         2.26         0.27         0.65         0.14         &lt;0.002         3.06         0.07           48.4         17.55         11.4         7.49         9.66         2.99         0.27         0.65         0.07         0.2         0.028         2.4          0.01           6.4         1.45         9.13         2.5         2.13         1.84         3.22         2.51         0.65         0.07         0.02         0.02         2.4          0.01           56.4         1.68         9.13         1.54         2.84         3.22         2.51         0.65         0.03         0.04         0.02</td> <td>LB025</td> <td>63.1</td> <td>16.95</td> <td>5.58</td> <td>3.06</td> <td>4.14</td> <td>3.32</td> <td>0.49</td> <td>0.54</td> <td>0.15</td> <td>0.12</td> <td>0.004</td> <td>4.34</td> <td>0.12</td> <td>0.05</td> <td>101.85</td>	58.9         17.7         6.16         2.91         9.66         2.26         0.27         0.65         0.14         <0.002         3.06         0.07           48.4         17.55         11.4         7.49         9.66         2.99         0.27         0.65         0.07         0.2         0.028         2.4          0.01           6.4         1.45         9.13         2.5         2.13         1.84         3.22         2.51         0.65         0.07         0.02         0.02         2.4          0.01           56.4         1.68         9.13         1.54         2.84         3.22         2.51         0.65         0.03         0.04         0.02	LB025	63.1	16.95	5.58	3.06	4.14	3.32	0.49	0.54	0.15	0.12	0.004	4.34	0.12	0.05	101.85
484         1755         114         749         996         209         0.26         0.65         0.07         0.25         0.028         24         -0.01         0.02           63.4         145         9.13         1.54         2.84         3.22         2.51         0.64         0.13         0.05         0.00         3.45         0.01         0.01           69.3         17.16         7.75         2.74         7.18         3.22         2.51         0.64         0.71         0.025         0.02         0.01         0.01         0.01         0.01         0.02         0.01	484 17.55 114 749 996 209 026 065 007 02 0028 24 4001  634 14.5 913 2.5 2.13 1.84 4.37 0.65 0.01 0.25 0.028 2.76 0.03  634 14.5 913 2.5 2.13 1.84 4.37 0.65 0.01 0.25 0.003 2.76 0.03  635 17.15 775 2.74 7.18 3.76 0.84 0.75 0.13 0.14 0.003 3.45 0.01  636 12.75 1.92 0.04 0.05 0.05 0.05 0.05 0.04 0.003 3.73 0.05  612 15.25 9.06 0.29 0.05 0.05 0.05 0.05 0.04 0.003 3.73 0.01  612 15.25 9.06 2.49 2.53 4.56 1.88 0.56 0.08 0.04 0.003 3.73 0.01  613 15.15 5.41 1.39 0.91 0.77 1.53 0.04 0.00 0.00 0.00 0.00  614 16 7.22 1.88 0.25 4.22 1.95 0.03 0.05 0.00 0.00 0.00  615 1.36 4.84 2.48 0.96 1.97 0.04 0.05 0.00 0.00  617 14.2 5.33 0.05 0.05 0.05 0.04 0.00 0.00 0.00  618 0.00 0.00 0.00 0.00 0.00 0.00 0.00  619 0.00 0.00 0.00 0.00 0.00 0.00 0.00  610 0.00 0.00 0.00 0.00 0.00  610 0.00 0.00 0.00 0.00  611 0.00 0.00 0.00 0.00  612 0.00 0.00 0.00 0.00  613 0.00 0.00 0.00 0.00  614 0.00 0.00 0.00 0.00  615 0.00 0.00 0.00  616 0.00 0.00 0.00  617 0.00 0.00 0.00  618 0.00 0.00 0.00  619 0.00 0.00 0.00  610 0.00 0.00 0.00  610 0.00 0.00 0.00  610 0.00 0.00 0.00  611 0.00 0.00 0.00  612 0.00 0.00 0.00  613 0.00 0.00  614 0.00 0.00  615 0.00 0.00  616 0.00 0.00  617 0.00 0.00  618 0.00 0.00  619 0.00 0.00  619 0.00 0.00  619 0.00 0.00  610 0.0	LB026	58.9	17.7	6.16	2.91	99.6	2.26	0.27	0.65	0.16	0.14	<0.002	3.05	0.07	0.12	101.92
634         145         913         2.5         2.13         184         437         0.65         0.11         0.25         0.003         2.76         0.003         0.00         0.00         0.00         0.01         0.0	634         145         913         25         213         184         437         0.65         0.1         0.25         0.003         276         0.03           694         16         573         154         284         322         251         0.54         0.13         0.14         0.003         276         0.03           564         168         9.1         4.01         7.74         7.18         3.76         0.74         0.03         1.96         0.02           564         168         9.1         4.01         7.74         7.18         0.76         0.79         0.14         0.003         2.76         0.02           66.         12.75         1.92         0.04         0.26         0.05         0.05         0.05         0.05         0.05         0.05         0.04         0.05         0.02         0.04         0.03         3.73         0.05           61.2         1.52         9.06         0.26         0.03         0.03         0.04         0.02         0.04         0.03         0.05           61.2         1.52         9.06         0.03         0.04         0.05         0.04         0.03         0.03         0.04	LB027	48.4	17.55	11.4	7.49	96.6	2.09	0.26	0.65	0.07	0.2	0.028	2.4	<0.01	0.02	100.55
64         16         573         154         322         251         0.64         0.13         0.14         0.002         345         0.02         0.04         0.01         0.003         149         0.00         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.02         0.05         0.01 <td>64         16         573         154         284         322         251         654         0.13         0.12         &lt; 0.002         345         0.02           654         1.15         7.75         2.74         7.74         3.71         0.78         0.75         0.14         0.003         1.96         0.01           66.6         1.2.75         1.92         0.04         0.26         1.05         1.09         0.79         0.14         0.003         1.96         0.01           66.6         1.2.75         1.92         0.04         0.26         1.05         0.05         0.05         0.05         0.05         0.05         0.05         0.05         0.04         0.05         0.05         0.04         0.05         0.04         0.05         0.03         0.04         0.01         0.04         0.01         0.02         0.04         0.01         0.02         0.04         0.01         0.01         0.02         0.01         0.02         0.01         0.02         0.02         0.02         0.02         0.03         0.03         0.01         0.01         0.02         0.01         0.02         0.01         0.02         0.01         0.02         0.02         0.02</td> <td>LB028</td> <td>63.4</td> <td>14.5</td> <td>9.13</td> <td>2.5</td> <td>2.13</td> <td>1.84</td> <td>4.37</td> <td>0.65</td> <td>0.1</td> <td>0.25</td> <td>0.003</td> <td>2.76</td> <td>0.03</td> <td>0.01</td> <td>101.75</td>	64         16         573         154         284         322         251         654         0.13         0.12         < 0.002         345         0.02           654         1.15         7.75         2.74         7.74         3.71         0.78         0.75         0.14         0.003         1.96         0.01           66.6         1.2.75         1.92         0.04         0.26         1.05         1.09         0.79         0.14         0.003         1.96         0.01           66.6         1.2.75         1.92         0.04         0.26         1.05         0.05         0.05         0.05         0.05         0.05         0.05         0.05         0.04         0.05         0.05         0.04         0.05         0.04         0.05         0.03         0.04         0.01         0.04         0.01         0.02         0.04         0.01         0.02         0.04         0.01         0.01         0.02         0.01         0.02         0.01         0.02         0.02         0.02         0.02         0.03         0.03         0.01         0.01         0.02         0.01         0.02         0.01         0.02         0.01         0.02         0.02         0.02	LB028	63.4	14.5	9.13	2.5	2.13	1.84	4.37	0.65	0.1	0.25	0.003	2.76	0.03	0.01	101.75
59.3         17.15         77.5         27.4         7.18         3.76         0.84         0.75         0.14         0.003         1.96         0.01         0.01           66.4         12.76         19.2         0.04         0.75         0.14         0.004         2.19         0.01         0.01         0.024         0.04         0.01         0.02         0.01         <	59.3         17.15         7.75         2.74         7.18         3.76         0.84         0.75         0.13         0.14         0.003         1.96         0.01           56.4         16.8         9.1         4.01         7.74         3.11         0.76         0.15         0.17         0.04         0.09         0.09         0.09         0.19         0.00         0.00         0	LB029	64	16	5.73	1.54	2.84	3.22	2.51	0.54	0.13	0.12	<0.002	3.45	0.02	0.01	100.16
56.4         16.8         9.1         4.01         7.74         3.11         0.76         0.17         0.04         2.19         0.05         0.01         0.024         15.4         0.01         0.04         0.18         0.01         0.024         15.4         0.001         0.48         0.01         0.02         0.03         <	56.4         16.8         9.1         4.01         7.74         3.11         0.76         0.76         0.17         0.004         2.19         0.05           66.6         12.75         1.92         0.04         0.26         1.05         1.39         0.77         0.16         0.01         0.024         15.4         0.05           83         9.93         3.33         0.05         0.02         0.05         0.02         0.04         0.002         3.78         0.01           61.2         15.5         9.06         2.49         2.53         4.58         1.88         0.56         0.18         0.02         3.78         0.01           61.2         11.65         5.41         1.39         0.91         0.77         1.63         0.43         0.06         0.00         3.78         0.01           68.2         12.1         1.48         0.94         0.77         1.63         0.43         0.06         0.00         3.75         0.02           68.2         1.51         1.44         3.46         0.83         0.55         0.14         0.01         0.00         3.75         0.02           66.3         1.55         1.44         3.46	LB030	59.3	17.15	7.75	2.74	7.18	3.76	0.84	0.75	0.13	0.14	0.003	1.96	0.01	0.01	101.75
66.6         12.75         192         0.04         0.26         1.05         1.39         0.79         0.16         0.01         0.024         154         <0.01         4.48           83         9.33         0.05         0.05         0.05         0.05         0.05         0.05         0.06         0.05         0.09         0.09         0.09         0.00         0.09         0.00         0.09         0.00         0.0	66.6         12.75         192         0.04         0.024         154         <0.01           83         9.93         3.33         0.05         0.05         0.05         0.05         0.04         0.003         3.73         0.01           61.2         16.25         9.06         2.49         2.53         4.58         188         0.05         0.02         0.00         0.03         3.73         0.01           74.5         11.65         5.41         1.39         0.91         0.77         1.63         0.06         0.08         0.02         3.73         0.01           59         16.6         7.22         1.88         6.25         4.22         1.25         0.08         0.02         3.73         0.01           68.2         12.1         8.64         2.48         0.96         1.97         0.06         0.03         0.01         0.02           68.2         15.1         8.64         2.48         0.96         0.14         0.00         0.02         3.65         0.1           68.2         15.2         4.44         3.46         0.83         0.06         0.02         0.02         3.65         0.01         0.02         0.02	LB031	56.4	16.8	9.1	4.01	7.74	3.11	92.0	0.76	0.1	0.17	0.004	2.19	0.05	0.01	101.19
83         9,93         3,33         0,05         0,05         0,05         0,05         0,05         0,05         0,05         0,05         0,05         0,05         0,05         0,02         0,04         0,003         3,73         0,01         0,03           4,15         1,155         1,24         2,53         4,58         1,18         0,56         0,06         0,02         0,002         3,75         0,01         0,03           68.2         1,16         7,24         1,88         6,25         4,22         1,25         0,69         0,03         0,03         0,19         0,19         0,03         0,03         0,19         0,19         0,14         0,02	83 9.93 3.33 0.05 0.05 0.05 0.06 0.5 0.02 0.04 0.003 3.73 0.01  61.2 15.25 9.06 2.49 2.53 4.58 1.88 0.56 0.16 0.26 0.002 3.78 0.01  74.5 11.65 5.41 1.39 0.91 0.77 1.63 0.43 0.06 0.08 0.002 3.75 0.02  59 166 7.22 1.88 6.25 4.22 1.25 0.08 0.08 0.002 3.63 0.19  68.2 12.1 8.64 2.48 0.96 1.97 2.01 0.45 0.14 0.01 0.002 3.63 0.19  68.3 15.15 5.33 2.19 4.44 3.46 0.83 0.55 0.14 0.01 0.002 1.99 0.02  68.3 15.15 1.05 0.49 0.17 0.05 0.19 0.96 0.11 0.00 0.002 1.32 0.03  67. 13.6 4.84 4.16 0.21 3.29 0.54 0.46 0.05 0.1 0.002 1.32 0.03  67. 14.65 5.11 1.89 4.02 3.31 0.98 0.49 0.17 0.05 0.19 0.05 0.05  67. 14.65 5.11 1.89 4.02 3.36 1.9 0.45 0.11 0.01 0.002 0.39 0.04  67. 14.65 5.11 1.89 2.02 1.76 3.21 0.77 0.47 0.11 0.01 0.002 0.39 0.04  67. 14.65 5.11 2.84 4.64 3.71 2.77 0.96 0.72 0.12 0.11 0.014 3.78 0.06  68. 11.5 0.94 2.65 3.35 3.36 0.31 0.49 0.13 0.05 0.002 2.25 0.03  *#Ill major oxides. C. and Sare in wt W.	LB032	9.99	12.75	1.92	0.04	0.26	1.05	1.39	0.79	0.16	0.01	0.024	15.4	<0.01	4.48	100.51
61.2         15.25         9.06         2.49         2.53         4.58         1.88         0.56         0.18         0.26         <0.002         3.28         0.18         0.32           74.5         11.65         5.41         1.39         0.91         0.77         1.63         0.66         0.08         <0.002         3.75         0.19         0.35           74.5         11.65         0.24         0.27         1.63         0.45         0.14         <0.02         3.75         0.19         0.13           68.2         12.1         8.64         2.48         0.96         1.97         2.01         0.45         0.14         <0.02         3.75         0.19         0.13           66.3         15.15         5.33         2.19         4.44         3.46         0.83         0.55         0.14         <0.01         0.90         0.11         0.00         4.65         0.1         1.39         0.02         0.13         0.15         0.14         0.00         1.39         0.02         0.14         0.00         0.14         0.00         0.14         0.00         0.14         0.00         0.14         0.01         0.14         0.00         0.14         0.01         0	61.2 15.25 9.06 2.49 2.53 4.58 1.88 0.56 0.18 0.26 <0.002 3.28 0.18 0.18 0.56 1.18 0.26 <0.002 3.28 0.18 0.18 0.56 1.18 0.26 <0.002 3.75 0.02 0.28 0.18 0.29 0.21 0.25 0.25 0.22 0.22 0.03 0.03 0.19 0.19 0.19 0.26 0.20 0.28 0.002 3.75 0.02 0.19 0.19 0.15 0.22 0.23 0.03 0.19 0.19 0.19 0.14 <0.002 3.75 0.19 0.19 0.19 0.14 <0.002 3.75 0.19 0.19 0.14 <0.002 3.75 0.19 0.19 0.14 <0.002 3.75 0.19 0.19 0.14 <0.002 3.75 0.19 0.19 0.14 <0.002 3.75 0.19 0.19 0.14 <0.002 3.75 0.19 0.19 0.14 <0.002 3.75 0.19 0.19 0.14 <0.002 3.75 0.19 0.19 0.14 0.11 0.003 1.19 0.002 0.14 0.10 0.14 0.14 0.14 0.14 0.14 0.14	LB033	83	9.93	3.33	0.05	0.05	0.03	90.0	0.5	0.02	0.04	0.003	3.73	0.01	0.03	100.75
74.5         11.65         54.1         1.39         0.91         0.77         1.63         0.43         0.06         0.08         <0.02         3.75         0.02         1.03           59         16.6         7.2         1.88         6.25         4.22         1.25         0.63         0.09         3.75         0.02         1.03           68.2         12.1         8.64         2.48         0.96         1.97         2.01         0.45         0.14         0.002         4.65         0.1         1.39         0.02         0.54         0.05         0.14         0.002         4.65         0.01         1.39         0.02         0.52         0.02         0.05         0.14         0.04         0.02         4.65         0.02<	745         11.65         541         139         0.91         0.77         163         0.03         <0.00         0.08         <0.002         3.75         0.02           59         10.6         7.22         1.88         6.25         4.22         1.25         0.63         0.08         <0.02	LB034	61.2	15.25	90.6	2.49	2.53	4.58	1.88	0.56	0.18	0.26	<0.002	3.28	0.18	0.32	101.32
59         16.6         722         188         6.25         4.22         125         0.63         0.08         0.23         0.002         3.63         0.19         0.54           68.2         12.1         68.4         1.38         6.25         4.27         2.01         0.45         0.14         0.002         4.65         0.19         0.54           68.3         15.15         5.33         2.19         4.44         3.6         0.19         0.05         0.14         0.01         4.69         0.17         0.06         0.14         0.01         0.00         1.39         0.02 <td>59         16.6         7.22         188         6.25         4.22         1.25         0.63         0.08         0.23         0.002         3.63         0.19           68.2         12.1         8.64         2.48         0.96         1.97         2.01         0.45         0.14         &lt;0.002         4.65         0.19           66.3         15.15         5.33         2.19         4.44         3.46         0.83         0.55         0.14         &lt;0.002         4.65         0.1           67.3         16.5         1.65         0.49         0.17         0.05         0.14         &lt;0.002         4.65         0.03           63.7         14.2         5.63         5.26         0.19         0.36         0.04         0.05         0.01         0.002         5.1         0.01           63.7         14.2         5.63         5.26         0.19         3.31         0.96         0.05         0.06         0.01         0.002         5.1         0.01           63.7         14.6         5.11         1.89         4.02         3.36         1.9         0.12         0.1         0.01         0.01         0.01         0.01         0.01         0.01</td> <td>LB036</td> <td>74.5</td> <td>11.65</td> <td>5.41</td> <td>1.39</td> <td>0.91</td> <td>0.77</td> <td>1.63</td> <td>0.43</td> <td>90.0</td> <td>0.08</td> <td>&lt;0.002</td> <td>3.75</td> <td>0.02</td> <td>1.03</td> <td>100.61</td>	59         16.6         7.22         188         6.25         4.22         1.25         0.63         0.08         0.23         0.002         3.63         0.19           68.2         12.1         8.64         2.48         0.96         1.97         2.01         0.45         0.14         <0.002         4.65         0.19           66.3         15.15         5.33         2.19         4.44         3.46         0.83         0.55         0.14         <0.002         4.65         0.1           67.3         16.5         1.65         0.49         0.17         0.05         0.14         <0.002         4.65         0.03           63.7         14.2         5.63         5.26         0.19         0.36         0.04         0.05         0.01         0.002         5.1         0.01           63.7         14.2         5.63         5.26         0.19         3.31         0.96         0.05         0.06         0.01         0.002         5.1         0.01           63.7         14.6         5.11         1.89         4.02         3.36         1.9         0.12         0.1         0.01         0.01         0.01         0.01         0.01         0.01	LB036	74.5	11.65	5.41	1.39	0.91	0.77	1.63	0.43	90.0	0.08	<0.002	3.75	0.02	1.03	100.61
68.2         12.1         8.64         2.48         0.96         1.97         2.01         0.45         0.15         0.14         <0.02         4.65         0.1         1.39           66.3         16.15         5.33         2.19         4.44         3.46         0.83         0.65         0.14         0.01         0.002         1.99         0.01         1.39           66.3         16.51         16.52         16.59         0.49         0.17         0.06         0.19         0.09         0.11         0.00         1.32         0.05         0.00         1.32         0.05         0.05         0.01         0.02         5.12         0.01         0.05         0.06         0.01         0.02         5.32         0.02	68.2 12.1 864 248 0.96 1.97 2.01 0.45 0.15 0.14 <0.002 4.65 0.1   66.3 15.15 5.33 2.19 4.44 3.46 0.83 0.55 0.14 0.013 1.99 0.02   66.3 15.15 6.33 2.19 4.44 3.46 0.83 0.55 0.14 0.013 1.99 0.02   67. 13.6 4.84 4.16 0.21 3.29 0.54 0.46 0.05 0.01 0.002 1.32 0.03   63.7 14.2 5.63 5.26 0.19 3.31 0.98 0.49 0.05 0.01 0.016 3.18 0.01   67.9 14.65 5.11 1.89 4.02 3.36 1.9 0.45 0.12 0.1 0.016 3.18 0.04   67.1 14.7 8.19 2.02 1.76 3.21 0.77 0.47 0.11 0.1 <0.002 2.25 0.03   67.3 15.55 4.88 6.88 1.96 0.77 0.47 0.11 0.14 0.016 3.18 0.04   67.1 14.7 8.19 2.02 1.76 3.21 0.77 0.47 0.11 0.01 <0.002 2.25 0.03   68.1 15.95 8.57 4.49 6.62 3.27 0.39 0.73 0.11 0.21 0.005 1.14 0.004   68.3 16.95 5.7 267 5.53 3.36 0.31 0.49 0.13 0.15 0.003 2.45 0.23   **All major oxides. Cand Sare in wt. %.	LB037	29	16.6	7.22	1.88	6.25	4.22	1.25	0.63	0.08	0.23	0.002	3.63	0.19	0.54	101.03
66.3         15.15         5.33         2.19         4.44         3.46         0.83         0.55         0.14         0.01         0.03         1.99         0.02         0.02           53.2         2.2         4.84         0.46         0.05         0.01         0.08         <0.002	66.3 15.15 5.33 2.19 4.44 3.46 0.83 0.55 0.14 0.11 0.003 1.99 0.02 (2.2) (2.2) (2.3) 2.19 4.44 3.46 0.83 0.55 0.14 0.11 0.003 1.99 0.02 (2.3) (2.3) (2.3) (2.3) (2.4) (2	LB041	68.2	12.1	8.64	2.48	96.0	1.97	2.01	0.45	0.15	0.14	<0.002	4.65	0.1	1.39	101.82
53.2         22         11.05         0.49         0.17         0.05         0.19         0.96         0.11         0.08         <0.002         13.2         0.03         0.05           67         13.6         4.84         4.16         0.21         3.29         0.54         0.46         0.05         0.1         0.002         5.1         0.01         0.32           63.7         14.2         5.63         5.26         0.19         3.31         0.49         0.05         0.06         0.002         5.3         0.02         0.32           67.9         14.55         7.55         4.88         6.98         1.96         0.74         0.11         0.14         0.006         5.32         0.26         0.32           67.9         14.7         8.19         4.02         3.21         0.77         0.47         0.11         0.01         0.002         2.25         0.03         0.26           58.1         16.8         7.43         4.64         3.71         2.77         0.36         0.73         0.11         0.014         3.78         0.06         1.71         0.01         0.005         1.74         0.04         0.42         0.66         0.11         0.01	53.2         22         11.05         0.49         0.17         0.05         0.19         0.96         0.11         0.08         <0.002         13.2         0.03           67.         13.6         4.84         4.16         0.21         3.29         0.54         0.46         0.05         0.01         5.1         0.01           63.7         14.2         5.63         5.26         0.19         3.31         0.98         0.49         0.05         0.08         <0.02	LB042	66.3	15.15	5.33	2.19	4.44	3.46	0.83	0.55	0.14	0.11	0.003	1.99	0.02	0.02	100.57
67         136         484         4.16         0.21         3.29         0.54         0.46         0.05         0.1         0.002         5.1         0.01         0.32           63.7         14.2         5.63         5.26         0.19         3.31         0.98         0.49         0.05         0.08         <0.002	67 13.6 4.84 4.16 0.21 3.29 0.54 0.06 0.05 0.1 0.002 5.1 0.01 63.7 14.2 5.63 5.26 0.19 3.31 0.98 0.49 0.05 0.08 0.002 5.3 0.02 58.3 15.55 5.14 1.89 4.02 3.86 1.9 0.47 0.11 0.14 0.016 3.18 0.12 67.1 14.7 8.19 2.02 1.76 3.21 0.77 0.47 0.11 0.1 0.002 2.25 0.03 58.1 16.8 7.43 4.64 3.71 2.77 0.96 0.72 0.12 0.11 0.014 3.78 0.06 68.8 14.5 5.5 2.6 1.73 1.99 0.69 0.53 0.1 0.05 1.14 0.04 68.1 16.9 5.57 2.67 5.53 3.36 0.31 0.49 0.13 0.15 0.003 2.45 0.23  **All major oxides. C and Sare in wt. %.	LB043	53.2	22	11.05	0.49	0.17	0.05	0.19	0.96	0.11	0.08	<0.002	13.2	0.03	0.05	101.5
63.7         14.2         5.63         5.26         0.19         3.31         0.98         0.49         0.05         0.08         <0.02         5.32         0.02         0.32           58.3         15.55         7.55         4.88         6.96         1.95         0.78         0.01         0.14         0.016         3.18         0.12         0.26           67.9         14.65         5.11         1.89         4.02         3.24         0.77         0.47         0.11         0.1         0.002         2.25         0.04         0.44           67.1         14.7         18.9         2.02         1.77         0.96         0.72         0.12         0.11         0.01         3.78         0.06         1.71           58.3         15.95         8.57         4.49         6.62         3.27         0.39         0.73         0.11         0.01         0.00         1.14         0.04         0.41           66.8         11.5         9.14         2.65         1.73         1.99         0.69         0.53         0.1         0.05         1.14         0.04         0.14           66.8         11.5         9.14         2.67         5.53         3.36	63.7 14.2 5.63 5.26 0.19 3.31 0.98 0.49 0.05 0.08 <0.002 5.32 0.02 5.83 5.26 0.18 1.55 5.25 4.88 6.98 1.95 0.78 0.61 0.1 0.14 0.016 3.18 0.12 67.9 14.65 5.11 1.89 4.02 3.36 1.9 0.45 0.12 0.1 0.002 0.89 0.04 67.1 14.7 8.19 2.02 1.76 3.21 0.77 0.47 0.11 0.11 0.01 2.25 0.03 1.9 0.06 6.8 11.5 9.14 2.65 1.73 1.99 0.69 0.53 0.1 0.05 0.002 1.14 0.04 8.31 16.9 5.57 2.67 5.53 3.36 0.31 0.49 0.13 0.15 0.003 2.45 0.23 1.14 0.14 0.14 0.14 0.014 0.14 0.014 1.14 0.04 1.15 0.003 2.45 0.23 1.14 0.14 0.14 0.14 0.14 0.14 0.14 0.14	LB044	29	13.6	4.84	4.16	0.21	3.29	0.54	0.46	0.05	0.1	0.002	5.1	0.01	0.32	98.36
58.3         15.56         7.55         4.88         6.98         1.95         0.78         0.61         0.14         0.016         3.18         0.12         0.26           67.9         14.65         5.11         1.89         4.02         3.36         1.9         0.45         0.12         0.01         0.00         0.89         0.04         0.44           67.1         14.7         8.19         2.02         1.76         3.21         0.77         0.47         0.11         0.1         0.00         2.25         0.03         0.26           58.1         16.8         7.43         4.64         3.71         0.39         0.72         0.12         0.11         0.01         3.78         0.06         1.71           58.3         15.95         8.57         4.49         6.62         3.27         0.39         0.73         0.11         0.05         1.14         0.04         0.44           66.8         11.5         9.14         2.65         1.73         1.99         0.69         0.53         0.13         0.15         0.003         2.45         0.16         0.16	58.3 15.55 755 4.88 6.98 1.95 0.78 0.61 0.1 0.14 0.016 3.18 0.12 0.12 0.12 0.14 0.016 3.18 0.12 0.12 0.13 0.14 0.016 3.18 0.12 0.13 0.14 0.016 0.14 0.016 0.14 0.14 0.016 0.14 0.14 0.14 0.14 0.14 0.14 0.14 0.14	LB045	63.7	14.2	5.63	5.26	0.19	3.31	0.98	0.49	0.05	0.08	<0.002	5.32	0.02	0.32	99.22
67.9 14.65 5.11 1.89 4.02 3.36 1.9 0.45 0.12 0.1 0.002 0.89 0.04 0.44 0.44 0.12 0.13 0.14 0.002 0.08 0.04 0.44 0.44 0.11 0.13 0.14 0.14 0.14 0.14 0.14 0.14 0.14 0.14	67.9 14.65 5.11 189 4.02 3.36 1.9 0.45 0.12 0.1 0.002 0.89 0.04 67.1 14.7 8.19 2.02 1.76 3.21 0.77 0.47 0.11 0.1 <0.002 2.25 0.03 58.1 16.8 7.43 4.64 3.71 2.77 0.96 0.72 0.12 0.11 0.014 3.78 0.06 58.3 15.95 8.57 4.49 6.62 3.27 0.39 0.73 0.11 0.21 0.05 1.14 0.04 66.8 0.37 2.67 5.53 3.36 0.31 0.49 0.13 0.15 0.003 2.45 0.23 **All major oxides. Cand Sare in wt. %.	MLG-01	58.3	15.55	7.55	4.88	6.98	1.95	0.78	0.61	0.1	0.14	0.016	3.18	0.12	0.26	100.07
67.1 14.7 8.19 2.02 1.76 3.21 0.77 0.47 0.11 0.1 <0.002 2.25 0.03 0.26 · · · · · · · · · · · · · · · · · · ·	67.1 14.7 8.19 2.02 1.76 3.21 0.77 0.47 0.11 0.1 < 0.002 2.25 0.03   58.1 16.8 7.43 4.64 3.71 2.77 0.96 0.72 0.12 0.11 0.014 3.78 0.06   58.3 15.95 8.57 4.49 6.62 3.27 0.39 0.73 0.11 0.21 0.005 1.14 0.04   66.8 0.5 0.00 0.53 0.1 0.05 0.002 4.23 0.18   63.1 16.9 5.57 2.67 5.53 3.36 0.31 0.49 0.13 0.15 0.003 2.45 0.23   **All major oxides. C and S are in wt. %.	NAF-01	6.79	14.65	5.11	1.89	4.02	3.36	1.9	0.45	0.12	0.1	0.002	0.89	0.04	0.44	100.5
58.1 16.8 7.43 4.64 3.71 2.77 0.96 0.72 0.12 0.11 0.014 3.78 0.06 1.71 58.3 15.95 8.57 4.49 6.62 3.27 0.39 0.73 0.11 0.21 0.005 1.14 0.04 0.42 6.68 11.5 9.14 2.65 1.73 1.99 0.69 0.53 0.1 0.05 0.002 4.23 0.18 2.31 63.1 16.9 5.57 2.67 5.53 3.36 0.31 0.49 0.13 0.15 0.003 2.45 0.23 0.16	58.1 16.8 7.43 4.64 3.71 2.77 0.96 0.72 0.12 0.11 0.014 3.78 0.06	NAF-02	67.1	14.7	8.19	2.02	1.76	3.21	0.77	0.47	0.11	0.1	<0.002	2.25	0.03	0.26	100.73
58.3 15.95 8.57 4.49 6.62 3.27 0.39 0.73 0.11 0.21 0.005 1.14 0.04 0.42 6.8 11.5 9.14 2.65 1.73 1.99 0.69 0.53 0.1 0.05 0.002 4.23 0.18 2.31 6.31 16.9 5.57 2.67 5.53 3.36 0.31 0.49 0.13 0.15 0.003 2.45 0.23 0.16	58.3 15.95 8.57 4.49 6.62 3.27 0.39 0.73 0.11 0.21 0.005 1.14 0.04 0.05 6.8 11.5 9.14 2.65 1.73 1.99 0.69 0.53 0.1 0.05 0.002 4.23 0.18 3.36 63.1 16.9 5.57 2.67 5.53 3.36 0.31 0.49 0.13 0.15 0.003 2.45 0.23 0.4 *All major oxides. C and Sare in wt. %.	NAF-03	58.1	16.8	7.43	4.64	3.71	2.77	96.0	0.72	0.12	0.11	0.014	3.78	90.0	1.71	99.22
66.8 11.5 9.14 2.65 1.73 1.99 0.69 0.53 0.1 0.05 0.002 4.23 0.18 2.31 63.1 16.9 5.57 2.67 5.53 3.36 0.31 0.49 0.13 0.15 0.003 2.45 0.23 0.16 ·	66.8 11.5 9.14 2.65 1.73 1.99 0.69 0.53 0.1 0.05 0.002 4.23 0.18 :: 63.1 16.9 5.57 2.67 5.53 3.36 0.31 0.49 0.13 0.15 0.003 2.45 0.23 · *All maior oxides. C and Sare in wt. %.	NAF-04	58.3	15.95	8.57	4.49	6.62	3.27	0.39	0.73	0.11	0.21	0.005	1.14	0.04	0.42	99.83
63.1 16.9 5.57 2.67 5.53 3.36 0.31 0.49 0.13 0.15 0.003 2.45 0.23 0.16 .	63.1 16.9 5.57 2.67 5.53 3.36 0.31 0.49 0.13 0.15 0.003 2.45 0.23 (************************************	NEF-01	8.99	11.5	9.14	2.65	1.73	1.99	69.0	0.53	0.1	0.05	0.002	4.23	0.18	2.31	99.43
		NEF-02	63.1	16.9	5.57	2.67	5.53	3.36	0.31	0.49	0.13	0.15	0.003	2.45	0.23	0.16	100.72

Appendix A: Eastern Sunda arc whole-rock geochemistry

252         0.32         <0.5         126           364         0.12         <0.5         12.1           486         0.26         <0.5         14.2           148         0.2         <0.5         14.2           148         0.2         <0.5         5.3           148         0.2         <0.5         5.3           255         0.1         <0.5         5.3           243         1.75         24         5.3           285         0.12         <0.5         5.3           120.5         0.07         <0.5         24.3           120.5         0.07         <0.5         27.3           120.5         0.07         <0.5         27.3           286         0.04         <0.5         27.3           297         0.06         0.5         27.3           298         0.06         0.5         27.3           215         0.06         0.5         27.3           218         0.06         0.05         20.8           218         0.06         0.0         27.3           218         0.07         0.0         27.4           226 <td< th=""><th>3 200</th><th>0.72 0.24 0.24 0.78 0.78 1.83 1.07 1.74 1.74 0.35 0.53 0.27 0.29 0.20 0.31 0.20 0.20 0.31 0.20 0.20 0.32</th><th>3860 1100 1100 914 5220 3260 3260 10000 3860 3830 2360 1030 16 406 887 54 87 1050 10000 1075 1120 3390 55</th><th>1.34 0. 0. 1.23 0. 0. 1.24 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0.</th><th>0.77 0.57 0.57 0.54 0.83 0.54 0.85 0.85 0.85 0.85 0.85 0.85 0.85 0.85</th><th>17.5 20.7 20.2 19.4 13.3 13.8 12.9 17.1 16.5 16.5 16.5 16.5 17.1 16.5 16.5 17.1 16.5 17.1 18.3 18.3 17.1 16.5 17.1 18.3 18.3 18.3 18.3 18.3 18.3 18.3 18</th><th>1.39 1.52 1.52 1.15 1.12 1.28 1.29 2.31 2.32 2.32 2.32 2.32 2.32 2.32 2.32</th><th>\$ 5 5 1.9 \$ 5 6 5 7.3 \$ 6 7 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9</th></td<>	3 200	0.72 0.24 0.24 0.78 0.78 1.83 1.07 1.74 1.74 0.35 0.53 0.27 0.29 0.20 0.31 0.20 0.20 0.31 0.20 0.20 0.32	3860 1100 1100 914 5220 3260 3260 10000 3860 3830 2360 1030 16 406 887 54 87 1050 10000 1075 1120 3390 55	1.34 0. 0. 1.23 0. 0. 1.24 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0.	0.77 0.57 0.57 0.54 0.83 0.54 0.85 0.85 0.85 0.85 0.85 0.85 0.85 0.85	17.5 20.7 20.2 19.4 13.3 13.8 12.9 17.1 16.5 16.5 16.5 16.5 17.1 16.5 16.5 17.1 16.5 17.1 18.3 18.3 17.1 16.5 17.1 18.3 18.3 18.3 18.3 18.3 18.3 18.3 18	1.39 1.52 1.52 1.15 1.12 1.28 1.29 2.31 2.32 2.32 2.32 2.32 2.32 2.32 2.32	\$ 5 5 1.9 \$ 5 6 5 7.3 \$ 6 7 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9
0.12 0.26 0.26 0.17 0.17 0.17 0.17 0.17 0.17 0.18 0.19	<ul><li>ν ω ν ω ω ± 4 ν ω ε ε γ ω τ ω τ = 1 τ ε ε ε ω ε ε ε ε ε ε ε ε ε ε ε ε ε ε ε</li></ul>	0.24 0.78 0.78 0.52 0.46 1.07 1.07 1.07 1.07 1.07 0.35 0.35 0.27 0.29 0.29 0.29 0.39 0.20 0.20 0.20 0.20 0.36 0.20				20.2 20.2 4.61 13.3 13.3 14.4 15.6 16.7 17.0 18.0 19.0 19.0 19.0 19.0 19.0 19.0 19.0 19	1.32 1.15 1.15 1.15 1.13 1.39 1.30 1.30 1.30 1.30 1.30 1.30 1.30 1.30	
0.2 0.56 0.11 0.17 1.75 1	ο ν ο ο τ 4 ξ ε ξ ξ ο τ ε τ τ τ τ τ ε ε ε ε ε ε ε ε ε ε ε ε	0.78 0.78 1.83 0.52 0.46 1.07 1.184 1.184 1.184 1.184 1.194 0.35 0.27 0.29 0.29 0.29 0.31 0.29 0.29 0.30 0.29 0.30 0.20 0.30 0				20.2 4.61 13.3 13.3 13.3 14.4 17.7 17.0 18.0 19.0 19.0 19.0 19.0 19.0 19.0 19.0 19	1.52 1.15 1.15 1.13 1.39 1.32 2.31 2.32 2.32 2.32 2.52 2.52 2.52 2.52 2.52	\$\left\{\chi_{\chi\ti}{\chi_{\chi_{\chi_{\chi_{\chi_{\chi_{\chi_{\chi_{\chi_{\chi\tingle\chi_{\chi_{\chi_{\chi_{\chi_{\chi_{\chi_{\chi_{\chi_{\chi\tingle\chi_{\chi_{\chi_{\chi_{\chi_{\chi_{\chi_{\chi_{\chi_{\chi\tingle\chi_{\chi\tingle\chi_{\chi_{\chi_{\chi_{\chi_{\chi_{\chi_{\chi_{\chi_{\chi\tiny{\chi_{\chi_{\chi_{\chi_{\chi_{\chi_{\chi_{\chi_{\chi_{\chi\tiny{\chi_{\chi_{\chi_{\chi_{\chi_{\chi_{\chi}\chi_{\chi\tiny\tiny\tiny\tiny\tiny\tiny\tiny\tin
0.56 0.11 0.20 0.17 4.35 4.35 4.35 0.12 0.02 0.02 0.03 0.04 0.04 0.04 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.06 0.06 0.06 0.07 0.08 0.09	v	0.78 0.78 1.83 0.52 0.46 1.74 1.74 0.35 0.35 0.29 0.20 0.21 0.21 0.31 0.31 0.32 0.33 0.35 0.27				9.4 9.4 9.4 9.4 9.4 9.4 9.4 9.4	0.79 1.15 1.28 1.39 1.39 1.22 2.31 2.32 2.32 2.32 2.52 2.52 2.32 2.52 2.52	1.1 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5
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0.2 4.3 4.3 4.3 6.25 0.28 0.28 0.04 0.04 0.04 0.05	8 T 4 K 8 K 8 8 C P T T T T E P P P P E P E K E E E E E E E E E E E	1.83 0.52 0.54 1.74 1.74 0.35 0.25 0.27 0.29 0.31 0.31 0.33 0.33 0.33 0.33				13.3 14.3 15.6 16.5 16.5 16.5 16.5 16.5 16.5 16.5	1.28 1.29 1.29 2.31 2.32 2.32 2.32 2.52 2.52 2.52 2.52 2.52	\$5 \$5 \$5 \$5 \$5 \$5 \$5 \$5 \$5 \$5 \$5 \$5 \$5 \$
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0.08 <0.5	13	0.31				15.1	2.03	<5 2.3
0.04 <0.5	2	0.36				21.3	0.55	<5 1.7
0.15 <0.5	9	0.21				13.5	1.49	<5 2.6
<0.5	9	0.34				14.5	1.78	<5 3.4
0.56 <0.5	22	0.33				16.2	3.39	<5 2.6
0.26 <0.5	12	2.16				15.1	1.32	<5 3.2
0.05 0.6	<b>-</b> 5	0.53				17.7	2.57	<5 3.3
0.11 0.5	27	2.51				17.8	2.24	<5 1.9
0.08	56	0.55				16.9	1.82	<5 1.4
0.1 <0.5	18	0.77				13.5	2.23	<5 1.7
<0.5 1.2 189 0.03 <0.5 16.7	10	0.54				17.9	1.97	<5 2.7

Appendix A: Eastern Sunda arc whole-rock geochemistry

gs	30.07	<0.05	<0.05	<0.05	0.78	0.39	0.49	10.45	157	0.57	9.0	<0.05	<0.05	0.53	0.12	90.0	0.11	<0.05	<0.05	60.0	<0.05	<0.05	0.05	<0.05	<0.05	90.0	<0.05	<0.05	0.08	<0.05	<0.05	<0.05	3.21	0.08	<0.05	<0.05	, v.03	50.05	<0.05	0.53	0.11	0.48	0.08	0.05	0.08	0.05	0.14	0.06
-Re	7600	<0.001	<0.001	<0.001	0.01	0.036	0.034	0.032	0.941	0.159	0.156	0.074	0.012	<0.001	0.001	0.102	0.001	0.002	<0.001	<0.001	0.001	0.01	0.005	0.612	0.143	<0.001	0.009	0.003	0.001	0.001	<0.001	<0.001	0.001	0.001	0.029	0.008	0.018	0.00	0.001	0.003	0.003	0.001	0.004	900.0	0.036	0.04	0.05	0.004
8	45 p	9.5 2.6	9.2	24.2	13.3	28.9	21.8	15.7	16.7	27.4	2.8	29.3	40.2	15.7	6.1	16.3	9	9.5	7.7	19.9	9.5	28.9	56.4	63.2	18.9	7.9	2.9	4.2	74.6	50.3	13.1	14.1	0.7	- i	17.5	7, 7,	2.1.5	5. 5	3.2	10.1	18.3	6.2	35.1	16.3	24.3	6.5	15.3	7.7
Ā	177	1.61	1.83	1.04	0.75	0.78	1.03	0.7	1.04	0.77	0.85	4.3	3.06	2.03	1.77	2.41	2.82	2.56	1.88	3.46	3.72	2.95	2.82	1.9	2.2	2.24	3.23	1.5	2.75	2.95	1.93	1.69	1.91	1.44	2.14	2.04	0.50	20.5	0.23	0.73	_	2	1.37	2.73	1.86	<del>-</del> [	1.57	1.94
<b>B</b>	u	, û	4	7	2	4	7	34	29	96	21	12	ო	7	က	13	16	4	7	80	80	17	19	6	ဇ	2	7	24	22	2	7	7	144	4 ;	9, 19	၂၃ 1	~ <	t «	o ro	29	7	9	1	29	7	ဖ ဖ	က မ	52
ž	ď	0 4	4	5	2	7	0	œ	7	2	6	4	1	15	7	4	6	က	6	10	2	က	1	2	10	33	7	29	16	7	9	13	5	8 .	4 (	m L	0 <	+ =		က	8	24	6	9	41	5 5	0 ;	11
pV	7.0	i 8.0	7.2	4.3	3.9	4	6.4	3.3	9.9	6.4	5.1	18.2	11.3	8.3	8.7	10.8	13.1	10.9	6	15.6	16.7	13.7	13.1	8.9	10.2	10.8	13.9	7.3	12.7	12.2	9.2	8.8	7.4	6.1	10.2	9. 1. 5.	4. C	t e	; -	3.2	4.9	9.3	6.1	11.8	9.1	5.7	8.5	8.8
g	0,	<u>,</u> 0	2.1	0.5	6.0	0.5	<del>1</del> .	0.5	9.0	9.0	0.5	2.7	3.8	1.9	1.2	2.4	5	2.1	8.0	2.6	2.6	2.2	2	1.9	2.3	1.6	1.9	0.4	2	2.7	<del>-</del> -	8.0	 	0.8	2.6	Z. Z.	o c	1 t	<u> </u>	6.0	6.0	1.1	2.3	2.5	1.6	6.0	<del>1</del> .5	2.1
Мо	ç	<u> </u>	-	_	ဗ	6	4	9	231	34	25	33	ω	7	₹ '	9	_	5	_	_	4	10	2	92	24	_	က	က	13	2	-	_	ω ·	ကေ	თ •	4 (	D 0	£ ~	- ∞	2	2	_	4	က	7	<b>ω</b> ι	ς,	-
3	0 40	0.14	0.15	0.08	0.15	0.16	0.18	0.15	0.47	0.32	0.25	0.61	0.33	0.21	0.24	0.18	0.34	0.19	0.31	9.4	0.27	0.35	0.28	0.28	0.19	0.22	0.32	0.22	0.33	0.24	0.44	0.42	0.05	0.16	0.27	0.34	0.20		0,16	0.21	0.23	0.43	0.16	0.26	0.21	0.21	0.23	0.18
5	ţ	70 2	<10	10	<10	<10	10	<10	<10	10	10	10	10	10	10	20	<10	10	10	10	<10	<10	10	10	10	20	<10	<10	10	10	10	10	×10	×10	<10	010 70	2 5	70, 70	9, 0	20	10	10	10	10	10	°40	10	10
r E	7 4	5 6	6.3	3.5	2.5	2.2	3.4	2.4	2	4.1	1.5	17.7	16.4	6.5	9	8.3	8.7	8.8	5.5	7	12.9	8.8	6	5.6	6.7	7.3	12.1	3.1	8.8	11.1	6.4	4.3	6.1	4.5	6.4	5.7	0. 4 0. 6	o o	9.0 8.0	2.3	2.9	5.6	5.6	9.5	6.3	3.4	წ. I	ε./
드	5	<0.005	0.014	0.191	0.064	0.048	0.038	0.087	0.13	0.113	0.085	0.039	0.047	0.007	0.063	0.036	0.045	0.024	0.016	0.031	0.064	0.071	0.104	0.065	0.057	0.023	0.035	0.078	0.059	0.036	0.027	0.02	0.014	0.014	0.107	0.089	0.042	0.033	0.083	0.122	0.154	0.034	0.017	0.043	0.02	0.03	0.069	0.017
오	76.0	0.25	0.28	0.14	0.25	0.34	0.3	0.31	1.33	0.7	0.56	1.44	0.57	0.41	0.58	0.41	0.85	0.41	0.72	0.91	0.68	0.87	0.63	0.56	0.45	0.59	0.72	0.51	0.68	0.45	0.98	0.92	90.0	0.2	0.57	0.62	0.64	0.30	0.19	0.39	0.47	0.88	0.28	0.56	0.44	0.44	0.51	0.36
ž	3000	<0.005	<0.005	<0.005	0.008	900.0	0.007	0.349	0.465	0.016	<0.005	<0.005	<0.005	0.021	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	×0.005	00.00	<0.005	0.107	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Sample ID	2 110	BHF-02	BHF-03	BHF-04	ELF-01	ELF-02	ELF-03	GBF-01	GBF-02	GBF-03	GBF-04	JEM-01	JEM-02	JER-01	LB001	LB002	LB005	FB009	LB010	LB011	LB014	LB015	LB018	LB022	LB024	LB025	LB026	LB027	LB028	LB029	LB030	LB031	LB032	LB033	LB034	LB036	LB037	- B042	LB043	LB044	LB045	MLG-01	NAF-01	NAF-02	NAF-03	NAF-04	NEF-01	NEF-02

\*All elements are in ppm.

Appendix A: Eastern Sunda arc whole-rock geochemistry

	Zr	73	20 0	36	47	45	28	8 8	29	25	06	110	8	63	5 6	74	. 69	130	91	87	94	80	61	94	73	40	107	96	82	23	104	85	63	92	77	23	82	<del></del>	χ <del>ζ</del>	110	119 67	15	0 t	3
		6.1	0 0		2	0	ω,	+ 10	. ~	. ന	10	0	_	m i	Ω (	o ro	) <del>-1</del>		6	3	4	21	8	(O 1	<u>«</u>	2 1	0 0	4 m		4	0	0 0	ı m	2	0	8	6	m (	m •	_ 、	٠, ٢	d <	<b>+</b> c	N.
ŀ	Zu	15	24 5	: 7	32	36	66	1156	887	153	36	56	4	8 8	365	424	7.	39	236	183	807	536	253	106	73	602	2, 6	2.2	20	4	22	1000	273	442	6	158	326	78	2 2	ۇ م	, 5 5	7 7	₹ 5 €	74
;	Yb	0.82	0.78	0.5	6.0	0.97	0.96	9.0 40.0	2.16	1.57	4.02	1.97	1.2	1.86	1.36	2.39	2.07	2.64	1.92	2.46	1.71	1.88	1.08	1.72	2.2	6. 5	1 67	3.17	2.68	0.21	0.8	1.58	1.96	1.08	1.17	0.91	1.38	1.63	4.7.7	0.96	1.92	0 <u>5.</u> 0 <u>4</u>	5. £	5.
;	Υ	7.7	5.7 7.9	. 4 . 6.	7.2	8.3	7.9	8.0 4.0 6.0	17.7	14.7	37.4	18.2	10.8	14.9	11.5 5.15	11.0	20.7	26.6	19.1	24.5	17.6	15.5	11.2	17.5	20.4	15	2. C.	26.9	25.2	1.7	5.6	15.5	16.8	10.6	#	9.6	10.8	12.4	24.6	7.6	10.1 10.1	  	ر ا ا ا	0.0
	>	<b>~</b> 7		- 2	4	13	4 i	<u>υ</u> ά	2 ~	က	13	က	~	7		- 0	1 0	ı <del>-</del>	2	2	က	က	2	<del>-</del> -	-	0 0	° °	1 0	2	9	2	0 0	2 2	2	_	2	2	7 7	<b>⊢</b> (	n c	N O	יז מ	о и	0
:	>	75	. 87.	8 8	75	98	123	193	194	279	27	268	63	186	36	100	210	137	86	66	147	219	117	120	130	261	101	182	229	48	88	104 65	133	29	112	229	145	148	186	91	105 243	717	720	00.
	n	0.23	0.16	0.6	0.23	0.23	0.27	0.14	0.24	0.13	96.0	1.62	0.36	0.23	0.29	0.33	0.28	0.57	0.3	0.26	0.4	0.28	0.16	0.37	1.08	0.09	0.53	0.34	0.27	0.27	0.31	0.24	0.22	0.27	0.25	0.12	0.28	0.35	0.49	0.91	0.00	000 0.10	0 . 0 . 0 .	0.40
	E	0.12	21.0	0.07	0.14	0.13	0.14	0.14	0.31	0.22	99.0	0.3	0.17	0.26	0.18	0.57	0.35	0.39	0.27	0.31	0.25	0.25	0.15	0.24	0.28	0.27	0.32	0.41	0.43	0.03	0.1	0.25	0.27	0.14	0.16	0.11	0.2	0.23	0.38	0.13	0.25	5 6	0G	0.40
i	F	0.02	0.02	0.02	0.05	0.05	0.03	0. 0 5. 7.	0.05	0.02	0.05	0.15	0.04	0.02	0.02	×0.02	0.00	0.02	<0.02	<0.02	0.04	0.09	0.03	0.03	<0.02	0.02	0.02	0.02	<0.02	<0.02	0.03	0.02	<0.02	0.03	<0.02	<0.02	<0.02	0.02	0.02	0.06	0.00	0.73 0.05	0.00	0.00
	L L	0.58	0.75	0.49	0.65	0.61	0.76	0.0 2.0	0.1	0.07	0.87	4.63	1.34	1.25	1.42	5 - 6	0.71	1.98	1.18	1.23	1.53	1.15	1.09	1.1	2.66	0.23	0.40	0.86	0.73	0.53	96.0	1.13	0.74	0.7	1.1	0.83	0.99	1.26	1.63	4.11	3.5	1.07 0.42	24.0 4.42	2
-	Те	0.04	0.08	0.27	0.09	0.2	0.11	0.80	0.38	0.11	0.09	0.02	0.2	0.02	40.0	0.00	0.00	0.74	0.12	0.01	0.01	0.1	0.03	0.03	0.01	0.03	0.02	0.0	0.02	0.19	0.2	0.05	0.13	0.02	0.03	0.02	0.3	0.04	0.13	90.0	0.05	- o	0.00	- - -
i	Тb	0.2	0.19	0.12	0.19	0.21	0.21	0.21	0.47	0.43	1.1	0.42	0.3	0.36	0.30	0.04	0.54	0.66	0.57	0.69	0.44	0.45	0.34	0.45	0.56	0.41	9.0	0.70	0.63	0.08	0.13	0.47	0.43	0.32	0.3	0.1	0.23	0.29	0.0	0.2	0.42	0.0 40.0	0.20	U.03
-	Та	0.2	S. C.	0.5	0.3	0.2	0.3	ر د د	0.2	0.2	0.3	0.4	0.3	0.4	0 6	9 6	0 0	0.1	<0.1	<0.1	<0.1	<0.1	<b>0</b> .1	0°.1	0°.	0. é	9 6	0 0	<0.1	<0.1	<0.1	6 - -	, 0 - 1	<b>√</b> 0.1	<0.1	<0.1	<0.1	6 6.1	D. 0	4. O	4.0	ა . ა .	ر د د د	ر د.ت
	Š	345	51/ 498	127.5	234	134.5	321	CI - 2	23.6	81.1	150	336	218	351	274	412	174	365	308	306	225	75	147	299	384	224	812 720	230	238	832	31.9	284 284	252	85.3	382	11.2	43.3	56.2	182.5	376	239	335	333	0.021
•	Sn	7 7			_	_		4 1~	- 2	· <del>-</del>	က	~	₹	ͺ,		- 2		· <del>-</del>	_	~	2	က	2	<del>-</del>	~	0 0	ი -		<b>—</b>	က	=			2	_	က	_		<del>-</del> -	- c	n ←		- +	-
-	Sm	1.36	1.57	0.92	1.12	1.02	1.19	1.14 4.0	1.81	2.03	5.1	2.37	1.81	2.57	2.38	27.6	2 89	4.32	4.07	3.63	3.22	2.61	2.46	2.59	3.8	2.32	5.5 67.6	3.24	2.91	1.37	1.42	2.75	2.36	2.34	2.3	0.36	1.05	1.6	2.98	1.42	2.87	2.22 1.75	1.75 2.43	7.40
-	Se	4 (	 y	: ;:	9.9	5.4	7.5	3.6	4.6	4.4	9.7	~	0.3	0.5	0.5	S. C.	8 0	0.4	0.4	<del>1.</del>	0.5	<del>[</del> -	2.3	0.5	0.8	0.3 r	o c	0.0	0.2	_	4.3	- c - α	 	1.6	9.0	9.0	6.0	<del>-</del> 6	0.5	0.7	0.5	7.7	ν. ο α	
	သွ	4 r	ი 4	t m	9	9	7	9 22	27	32	56	7	10	14	- 6	۵ ۵	23 0	15	80	10	7	19	=	15	13	30	<u> </u>	24	25	4	4	ę 9	5 4	80	10	œ	16	19	78	o ć	10	0 8	07	מ
!	Sample ID	BHF-01	BHF-02 BHE-03	BHF-04	ELF-01	ELF-02	ELF-03	GBF-01	GBF-03	GBF-04	JEM-01	JEM-02	JER-01	LB001	LB002	LB003	LB010	LB011	LB014	LB015	LB018	LB022	LB024	LB025	LB026	LB027	LB028	LB030	LB031	LB032	LB033	LB034	LB037	LB041	LB042	LB043	LB044	LB045	MLG-01	NAF-01	NAF-02	NAF-03 NAF-04	NAT-04	

Appendix A: Eastern Sunda arc whole-rock geochemistry

0.73 0.01 0.08 0.02 0.02 0.02 0.02 0.02 0.03 0.04 0.03 0.04 0.05 0.08 0.08 0.08 0.08 0.03 0.02 0.01 0.02 0.01 0.02 0.02 0.02 0.03 0.02 0.02 0.03 0.02 0.03 0.02 0.03 0.02 0.03 0.02 0.03 0.02 0.03 0.03	AI2O3 Fe2O3	Fe2O3		MgO	CaO	Na2O	K20	Ti02	P205	MnO	Cr203	ΓΟI	TOTAL C	TOTAL S	Sum
0.42         0.00 <td< th=""><th>9.44 3.46</th><th>3.46 6.01</th><th>6.01</th><th></th><th>2.23</th><th></th><th>0.74</th><th>0.73</th><th>0.11</th><th>0.08</th><th>&lt;0.002</th><th>6.05</th><th>0.18</th><th>3.64</th><th>98.55</th></td<>	9.44 3.46	3.46 6.01	6.01		2.23		0.74	0.73	0.11	0.08	<0.002	6.05	0.18	3.64	98.55
0.25         0.08         0.08         0.006         3.64         0.02         2.87           0.65         0.14         0.13         0.09         1.3         0.01         0.06           0.65         0.14         0.13         0.09         1.3         0.01         0.06           0.65         0.12         0.16         0.002         2.68         0.31         0.14           0.22         0.03         0.02         2.02         0.02         0.02         0.02           0.22         0.04         0.01         <0.002	6.47 3.34 0.86 0.13 0.07 13.45 3.83 2.24 0.29 5.88	0.86 0.13 2.24 0.29	0.13 0.29		0.07 5.88		1.56	0.7	0.02	0.02	0.005 <0.002	3.12 2.12	0.00	1.8 0.82	100.83
0.52         0.14         0.13         0.019         1.13         0.01         0.04           0.58         0.12         0.14         0.017         0.003         1.49         0.011         0.04           0.58         0.12         0.15         0.004         2.69         0.011         0.04           0.22         0.03         0.02         0.002         6.66         0.01         0.02           0.22         0.03         0.02         0.002         2.21         0.03         0.02           0.26         0.02         0.002         2.06         0.01         0.01         0.02           0.45         0.02         0.003         2.72         0.01         0.01         0.02           0.45         0.01         0.002         2.24         0.02         0.02         0.02           0.45         0.01         0.003         2.02         0.01         0.01         0.01         0.01         0.02	7.17 0.74 0.1 0.08	0.74 0.1 0.08	0.1 0.08	0.08			0.92	0.25	0.08	0.08	900.0	3.64	0.02	2.87	101.52
0.00         0.00         1.49         0.01           0.25         0.01         0.01         0.00         2.69         0.01           0.25         0.02         0.00         0.01         0.00         0.02           0.25         0.03         0.02         0.00         0.01         0.02           0.26         0.02         0.00         0.00         0.01         0.02           0.17         -0.01         0.00         0.00         0.01         0.02           0.17         -0.01         0.00         0.00         0.01         0.02           0.17         -0.02         0.00         0.00         0.01         0.02           0.17         -0.03         0.00         0.00         0.01         0.02           0.45         0.04         0.03         0.00         0.01         0.01           0.45         0.04         0.03         0.00         0.01         0.00           0.45         0.04         0.00         0.00         0.01         0.01           0.45         0.04         0.00         0.00         0.01         0.01           0.45         0.04         0.04         0.04         0.04	3.6 6.53 3.69	3.6 6.53 3.69	6.53 3.69	3.69		0 0	.65	0.52	0.14	0.13	0.019	1.3	0.1	0.04	101.15
0.38         0.12         0.18         0.012         3.81         0.39         1.81           0.22         0.03         0.012         0.002         6.56         0.02         0.02           0.22         0.02         0.002         2.06         0.01         0.02           0.26         0.02         0.002         0.002         2.06         0.01         0.02           0.45         0.14         0.02         0.003         0.02         0.01         0.02           0.45         0.14         0.05         0.003         0.01         0.02         0.02           0.45         0.14         0.05         0.003         0.01         0.01         0.02           0.45         0.14         0.05         0.003         0.02         0.01         0.01           0.45         0.14         0.02         0.003         0.002         0.01         0.01           0.45         0.14         0.02         0.002         0.01         0.01         0.01           0.45         0.06         0.03         0.002         0.01         0.01         0.01           0.45         0.07         0.002         0.01         0.01         0.01	8.86 3.05 4.94 4.32	3.05 4.94 4.32	6.2 4.94 4.32	4.32		0	54.	0.53	0.12	0.15	0.004	2.69	0.31	0.00	100.08
0.22         0.04         0.01         <0.002	10.9 2.54 3.69 2.53	2.54 3.69 2.53	3.69 2.53	2.53		0	.47	0.38	0.12	0.18	0.012	3.61	0.39	1.81	98.2
0.02         0.03         <0.002	8.47 0.43 0.18 0.05	0.43 0.18 0.05	0.18 0.05	0.05		2,	23	0.22	0.04	0.01	<0.002	6.56	0.02	6.62	98.18
0.75         0.02         0.03         0.002         1.9         0.002           0.45         0.02         0.03         0.002         1.9         0.01         0.00           0.45         0.14         0.05         0.003         6.72         0.01         0.02           0.45         0.04         0.05         0.003         6.72         0.01         0.01           0.42         0.04         0.02         0.005         0.002         2.5         0.01         0.01           0.75         0.14         0.22         0.005         0.005         0.005         0.01         0.01           0.75         0.04         0.02         0.002         1.74         0.06         0.01           0.75         0.06         0.09         0.002         1.74         0.06         0.01           0.75         0.06         0.002         1.78         0.01         0.01         0.01           0.75         0.07         0.002         1.78         0.01         0.01         0.01         0.01         0.01           0.75         0.09         0.01         0.002         1.28         0.01         0.01         0.01           0.75 <t< td=""><td>3.07 0.42 0.11 0.05</td><td>0.42 0.11 0.05</td><td>0.11 0.05</td><td>0.05</td><td></td><td>(4)</td><td>4 r</td><td>0.22</td><td>0.03</td><td>0.02</td><td>&lt;0.002</td><td>2.21</td><td>0.03</td><td>0.02</td><td>99.94</td></t<>	3.07 0.42 0.11 0.05	0.42 0.11 0.05	0.11 0.05	0.05		(4)	4 r	0.22	0.03	0.02	<0.002	2.21	0.03	0.02	99.94
0.69         0.12         0.08         0.003         3.47         0.17         2.18           0.45         0.14         0.05         0.003         3.47         0.17         2.18           0.42         0.14         0.05         0.003         6.72         0.17         2.18           0.42         0.14         0.05         0.002         2.5         0.01         0.01           0.72         0.06         0.03         0.002         2.5         0.01         0.01           0.45         0.09         0.13         0.002         1.56         0.01         0.01           0.45         0.09         0.13         0.002         1.56         0.01         0.01           0.45         0.09         0.002         1.56         0.01         0.01         0.01           0.45         0.09         0.002         1.56         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.02         0.01         0.01         0.01         0.01         0.01         0.02         0.01         0.01         0.01         0.01         0.01         0.01	0.53 0.09 0.05	0.53 0.09 0.05	60:0 80:0	0.05		.v. ←	ე 7 2 4	0.26	0.02	0.03	<0.002 0.002	2.06	0.01	0.02	100.33
045         014         0.05         0.003         6.72         0.17         3.28           0.2         0.08         0.03         0.032         2.5         0.01         0.01           0.2         0.14         0.02         0.002         2.5         0.01         0.01           0.79         0.14         0.22         0.002         3.7         0.03         0.01           0.45         0.08         0.09         0.002         1.56         0.01         0.01           0.45         0.09         0.01         2.002         1.56         0.01         0.01           0.45         0.01         0.02         0.002         1.56         0.01         0.01           0.45         0.01         0.02         0.002         1.56         0.01         0.01           0.5         0.02         0.02         0.002         1.47         0.09         0.01           0.75         0.03         0.002         1.58         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.02         0.01         0.01         0.01         0.02         0.04         0.	5.18 3.15 5.97 4.79	3.15 5.97 4.79	5.97 4.79	4.79		0	39	0.69	0.12	0.08	0.003	3.47	0.17	2.18	99.82
0.2         0.08         0.03         <0.002	4.53 3.11 3.99 4.24	3.11 3.99 4.24	3.99 4.24	4.24		0.0	36	0.45	0.14	0.05	0.003	6.72	0.17	3.28	99.3
0.42         0.1         0.13         0.012         2.85         0.02         0.01           0.79         0.14         0.12         0.005         4.47         0.06         0.01           0.22         0.06         0.002         0.005         4.47         0.06         0.01           0.45         0.08         0.03         <0.002	1.38 1.06 0.74 5.03	1.06 0.74 5.03	0.74 5.03	5.03		<del>;</del>	38	0.2	0.08	0.03	<0.002	2.5	0.01	0.01	101.17
0.79         0.74         0.22         0.005         447         0.05           0.72         0.06         0.09         -0.002         3.7         0.31         0.91           0.45         0.08         0.09         -0.002         1.56         0.09         0.03           0.45         0.08         0.03         -0.002         1.56         0.01         0.01           0.5         0.12         0.12         -0.02         3.36         0.01         0.01           0.5         0.09         0.03         -0.002         4.01         0.09         0.07           0.5         0.09         0.03         -0.002         4.01         0.01         0.01           0.77         0.11         0.02         -0.002         3.24         0.08         1.59           0.77         0.11         0.06         -0.002         2.98         0.14         0.67           0.66         0.15         0.06         -0.002         2.98         0.14         0.14           0.67         0.14         0.06         -0.002         2.98         0.14         0.14           0.44         0.14         0.06         -0.002         2.98         0.04	11.95 2.76 3 3.37	2.76 3 3.37	3 3.37	3.37		0.0		0.42	0.1	0.13	0.012	2.85	0.02	0.01	100.85
0.42         0.09         0.09         0.002         3.7         0.34           0.47         0.09         0.09         0.002         1.56         0.09         0.07           0.47         0.08         0.09         0.002         1.58         0.14         0.09           0.4         0.11         0.07         0.002         1.82         0.01         0.09           0.5         0.02         0.03         0.002         1.82         0.01         0.01           0.7         0.01         0.02         0.002         3.24         0.08         0.01           0.7         0.15         0.06         0.002         2.98         0.14         0.05           0.6         0.15         0.06         0.002         2.98         0.14         0.07           0.6         0.15         0.06         0.002         2.9         0.04         0.05           0.44         0.14         0.08         0.002         2.9         0.04         0.07           0.44         0.12         0.002         2.9         0.04         0.02           0.45         0.14         0.002         2.9         0.04         0.02           0.45	6.64 4.56 5.58 2.17	4.56 5.58 2.17	5.58 2.17	2.17		ۍ د	ດຸເ	0.79	0.14	0.22	0.005	4.47	0.06	0.91	100.82
0.47         0.09         0.13 <a.002< th="">         1.56         0.09         0.07           0.45         0.08         0.09         <a.002< td="">         1.58         0.01         0.01           0.45         0.01         0.02         <a.002< td="">         1.58         0.01         0.01           0.5         0.02         0.03         <a.002< td="">         1.58         0.01         0.01           0.7         0.11         0.02         <a.002< td="">         3.24         0.08         0.01           0.7         0.11         0.02         <a.002< td="">         2.98         0.014         0.06           0.47         0.11         0.02         <a.002< td="">         2.98         0.014         0.06           0.49         0.15         0.06         <a.002< td="">         2.9         0.01         0.02           0.44         0.14         0.08         <a.002< td="">         2.9         0.04         0.19           0.45         0.12         <a.001< td=""> <a.002< td="">         2.9         0.02         0.02           0.46         0.12         <a.002< td=""> <a.002< td="">         2.9         0.02         0.02           0.46         0.12         <a.002< td=""> <a.002< td="">         2.9<td>2.12 1.16 2.96 3.35</td><td>1.16 2.96 3.35</td><td>2.96 3.35</td><td>3.35</td><td></td><td></td><td>e :</td><td>0.22</td><td>0.06</td><td>0.09</td><td>&lt;0.002</td><td>3.7</td><td>0.31</td><td>0.34</td><td>101.05</td></a.002<></a.002<></a.002<></a.002<></a.002<></a.001<></a.002<></a.002<></a.002<></a.002<></a.002<></a.002<></a.002<></a.002<></a.002<>	2.12 1.16 2.96 3.35	1.16 2.96 3.35	2.96 3.35	3.35			e :	0.22	0.06	0.09	<0.002	3.7	0.31	0.34	101.05
0.45         0.00         0.00         0.00         0.01         0.01           0.4         0.11         0.02         1.38         0.11         0.01           0.5         0.02         0.03         <0.002	2.85 6.9 3.63	2.85 6.9 3.63	6.9 3.63	3.63		3, 6	<u>υ</u> .	0.47	0.09	0.13	<0.002	1.56	0.09	0.07	100.93
0.4         0.11         0.07         0.002         1.62         0.14         0.09           0.5         0.09         0.03         0.002         3.24         0.09         0.09           0.77         0.11         0.02         0.002         3.24         0.08         1.59           0.77         0.11         0.02         0.002         2.98         0.14         0.06           0.47         0.11         0.08         0.002         2.98         0.14         0.07           0.47         0.14         0.08         0.002         2.9         0.04         0.19           0.49         0.12         0.004         0.002         2.9         0.04         0.19           0.49         0.12         0.001         0.002         2.9         0.04         0.19           0.49         0.12         0.001         0.002         2.9         0.04         0.19           0.44         0.14         0.02         0.01         0.002         1.24         0.02         0.19           0.45         0.11         0.02         0.002         1.29         0.04         0.19           0.45         0.11         0.02         0.01         0.	6.14 2.84 b 3.59	2.584 6 3.59	0 3.09	3.59		5 6		0.45	0.08	0.09	<0.002	2.58	0.11	0.12	99.54
0.5         0.01         0.02         4.01         0.01           0.5         0.09         0.03         4.00         3.24         0.09         1.59           0.77         0.11         0.12         <0.002	0.37 3.73	2.2 5.3/ 5.75	0.37 3.73	3.73		0.0	4 c	4. r.	0. 0	0.07	<0.002	79°-	0.0	0.03	101.98
0.77         0.11         0.22         0.002         3.24         0.08         1.59           0.56         0.15         0.06         0.002         2.98         0.14         0.67           0.47         0.11         0.08         0.002         2.98         0.14         0.67           0.47         0.15         0.06         0.002         2.9         0.02         0.02           0.44         0.14         0.08         <0.002	367 334 368 3.25	3.34 3.68 3.25	3 68 3 25	3.25			۷ œ		0.0	0.03	<0.002	4.01	0.0	96.0	98.55
0.56         0.15         0.06         0.002         2.98         0.14         0.67           0.47         0.1         0.18         0.004         4.26         0.18         1.14           0.45         0.15         0.06         <0.02	8.51 3.78 6.4 2.97	3.78 6.4 2.97	6.4 2.97	2.97		0.2	9	0.77	0.11	0.2	<0.002	3.24	0.08	1.59	100.68
0.47         0.1         0.18         0.004         4.26         0.18         1.14           0.66         0.15         0.06         <0.002	5.04 3.32 3.85 3.72	3.32 3.85 3.72	3.85 3.72	3.72		2.5	4	0.56	0.15	90.0	0.002	2.98	0.14	0.67	101.89
0.66         0.15         0.06         <0.002	6.67 3.5 1.5 2.48	3.5 1.5 2.48	1.5 2.48	2.48		0.6	99	0.47	0.1	0.18	0.004	4.26	0.18	1.14	101.24
0.44         0.14         0.08         < 0.002         2.9         0.04         0.19           0.49         0.12         < 0.01	7.78 2.41 3.71 4.05	2.41 3.71 4.05	3.71 4.05	4.05		9	<u>.</u>	0.66	0.15	0.06	<0.002	2.9	0.02	0.02	98.89
0.45         0.12         0.002         0.45         0.02         0.02         0.02         0.02         0.02         0.02         0.02         0.02         0.02         0.02         0.02         0.02         0.02         0.02         0.02         0.03 <t< td=""><td>2.05 4.08</td><td>2.21 2.05 4.08</td><td>2.05 4.08</td><td>4.08</td><td></td><td></td><td>_ 6</td><td>0.44</td><td>0.14</td><td>0.08</td><td>&lt;0.002</td><td>2.9</td><td>0.04</td><td>0.19</td><td>100.05</td></t<>	2.05 4.08	2.21 2.05 4.08	2.05 4.08	4.08			_ 6	0.44	0.14	0.08	<0.002	2.9	0.04	0.19	100.05
0.42         0.06         0.02         0.002         4.86         0.02         2.89           0.45         0.11         <0.01	10.1 0.04 0.00 0.13 4.67 0.02 0.17 0.57	0.04 0.06 0.13	0.00	0.57		ċċ	0 89	0.49	0.12	0.07	<0.002 <0.002	12.75	0.02	6.42	201
0.45         0.11         <0.01         <0.002         12.9         0.06         6.15           0.43         0.15         <0.01	4.23 0.1 0.11	0.1 0.11	0.11 0.11	0.11		· "	22	0.42	0.16	0.02	<0.002	4.86	0.02	2.89	99.46
0.43         0.15         <0.01	4.57 0.01 0.11 0.46	0.01 0.11 0.46	0.11 0.46	0.46		_	.13	0.45	0.11	<0.01	<0.002	12.9	90.0	6.15	100.92
0.2         0.01         0.01         <0.002	0.01 0.15 1.07	0.01 0.15 1.07	0.15 1.07	1.07		_	10.	0.43	0.15	<0.01	<0.002	17.15	0.04	9.05	2.66
0.42         0.02         0.01         <0.002         5.11         0.03         1.69           0.24         0.09         0.01         0.002         7.4         0.04         4.39           0.45         0.18         0.01         <0.002	11.25 0.01 0.02 0.02	0.01 0.02 0.02	0.02 0.02	0.02		0	03	0.2	0.01	0.01	<0.002	8.35	0.02	9.72	101.61
0.24         0.09         0.01         0.002         12.65         0.12         6.21           0.45         0.18         0.01         <0.002	4.23 0.12 0.08 0.43	0.12 0.08 0.43	0.08 0.43	0.43			9.	0.42	0.02	0.01	<0.002	5.11	0.03	1.69	99.35
0.45         0.18         0.01         <0.002         7.4         0.04         4.92           0.43         0.14         <0.01	3.61 <0.01 0.78	<0.01 0.78	0.1 0.78	0.78		0	88	0.24	0.09	0.01	0.002	12.65	0.12	6.21	101.7
0.43 0.14 < 0.001 < 0.002 15.1 0.02 7.80 0.39 0.39 0.12 < 0.017 < 0.001 < 0.002 7.34 0.02 7.34 0.02 9.39 0.32 0.12 < 0.011 < 0.002 7.34 0.02 9.32 0.32 0.21 < 0.011 < 0.002 7.62 0.03 5.57 0.03 5.77 0.03 5.14 0.02 0.02 0.03 0.31 0.31 0.03 0.14 0.01 < 0.002 7.72 0.03 5.14 0.03 0.14 0.01 < 0.002 7.72 0.03 5.14 0.03 0.14 0.01 < 0.001 < 0.002 7.72 0.03 5.14 0.03 0.14 0.01 < 0.01 < 0.002 10.15 0.01 0.02 0.384 0.15 0.01 0.01 0.02 0.18 0.01 0.17 0.18 0.09 0.01 0.002 7.97 < 0.01 7.66 0.01 0.002 7.97 0.01 7.66 0.01 0.00 0.01 0.002 7.97 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.0	0.23	0.28 0.16 0.23	0.16 0.23	0.23		← ,	61	0.45	0.18	0.00	<0.002	7.4	0.04	4.92	100.85
0.39 0.17 <0.001 0.002 7.34 0.02 4.339 0.02 0.39 0.02 0.03 0.039 0.12 0.002 0.03 0.02 0.03 0.039 0.13 0.03 0.13 0.03 0.13 0.03 0.13 0.03 0.13 0.03 0.13 0.03 0.13 0.03 0.13 0.03 0.13 0.03 0.0	3.10 0.02 0.00 0.20	0.02 0.00 0.20	0.00	0.20		<u>-</u> c	2 6	24.0	. 0	0.0	×0.002	10.1	0.02	00.7	100.45
0.52 0.21 < 0.01 < 0.022 7.62 0.03 5.57 0.03	12.05 0.05 0.05	0.02	50.0	0.00		<i>i</i> c	3 8	0.50	0.17	0.07	<0.002	9 0	0.02	60.4 CO O	100.73
0.38         0.1         0.01         <0.002         7.72         0.03         5.14           0.21         0.02         0.05         <0.002	6.6 0.02 0.19 0.05	0.02 0.19 0.05	0.19 0.05	0.05		Ö	02	0.52	0.21	<0.01	<0.002	7.62	0.03	5.57	100.44
0.21         0.02         0.05         <0.002         4.31         0.03         3.51           0.43         0.16         <0.01	5.36 0.01 0.08 0.21	0.01 0.08 0.21	0.08 0.21	0.21		0	21	0.38	0.1	0.01	<0.002	7.72	0.03	5.14	99.18
0.43         0.16         <0.01         <0.002         5.59         0.02         3.84           0.45         0.15         0.01         <0.002	0.2 0.16 0.39	0.2 0.16 0.39	0.16 0.39	0.39		0.0	34	0.21	0.02	0.05	<0.002	4.31	0.03	3.51	100.66
0.45         0.15         0.01         <0.002         10.15         <0.01         2.66           0.19         0.12         <0.01	6.0 4.97 0.31 0.13 0.4	0.31 0.13 0.4	0.13 0.4	0.4		.,	80	0.43	0.16	<0.01	<0.002	5.59	0.02	3.84	101.31
0.19 0.12 <0.01 0.002 18.5 0.01 17.65 0.48 0.09 <0.01 <0.002 7.97 <0.01 4.1 0.13 0.05 0.01 <0.002 9.09 0.01 9.9 0.13	2.63 0.02 0.2 0.86	0.02 0.2 0.86	0.2 0.86	0.86		0	26	0.45	0.15	0.01	<0.002	10.15	<0.01	2.66	101.7
0.48 0.09 <0.01 <0.002 7.97 <0.01 4.1 ·	0.07 0.03 0.05	0.07 0.03 0.05	0.03 0.05	0.05		Ö	60	0.19	0.12	<0.01	0.002	18.5	0.01	17.65	98.39
0.13 0.05 0.01 <0.002 9.09 0.01 9.9	0.05 0.03	0.01 0.05 0.03	0.05 0.03	0.03		0.0	90	0.48	0.09	<0.01	<0.002	7.97	<0.01	4.1	100.52
	0.02 0.03	0.02 0.03	0.02 0.03	0.03	_	0	02	0.13	0.05	0.01	<0.002	60.6	0.01	6.6	100.19
	, C and S are in wt. %.	vt. %.	vt. %.												

Appendix A: Eastern Sunda arc whole-rock geochemistry

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5	3	0.1	<0.05	10.35	0.11	0.05	0.03	2.79	10.15	1.22	3.25	0.19	0.14	0.09	0.00	0.11	<0.05	90.0	<0.05	90.0	<0.05	0.19	0.07	0.17	0.08	1.42	0.14	1.39	0.12	0.16	1.29	0.4	<0.05	0.6	0.17	0.36	0.09	0.59	0.29	0.08	2.32	1.61	46.9	14.35	1.73	
Re		0.01	0.004	0.007	0.01	0.005	0.005	0.021	<0.001	0.001	<0.001	0.011	0.057	<0.001	<0.001 <0.001	0.03	0.025	0.001	0.05	0.001	0.435	0.013	0.004	0.033	0.011	0.005	0.009	0.002	2.88	0.004	0.002	0.004	1.265	0.063	0.065	0 003	0.381	0.001	0.07	0.015	0.094	900.0	0.008	0.17	900.0	
42		18.1	3.8	20.6	16.7	12.5	12.3 12.	36.2	36.6	44.8	28.6	6	8.7	32.4	0.0	6.4	20.6	1.2	19.9	2	42.8	3.7	44.8	17.8	58.6	16.8	10.4	9.0	55.5	6:0	8.0	0.5	23.1	9.0	20.9	3.5	0.8	0.3	1.2	8.3	37.2	9.0	0.2	<del>-</del> -	0.3	
à		1.05	4.77	0.63	2.5	2.05	1.11	2.52	2.04	2.68	6.0	1.63	1.65	4.35	72.1	1.43	4.	1.16	1.13	1.54	1.37	2	2.03	0.91	1.99	1.32	1.14	1.99	1.89	2.26	1.9	0.12	0.84	0.4	1.75	2.26	1.34	1.59	0.98	0.24	2.08	1.43	1.47	1.63	0.34	
4	2	116	3 %	727	<b>б</b>	4 (	5 4	276	382	123	185	80	80	9 •	† <del>-</del>	: 4	2	က	2	9	က	41	16	6	က	2	32	225	09	133	26	35	<del>,</del> 5	104	103	22	1 06	38	111	43	22	88	142	30	20	
Ē		ა 4	4	13	39	68 68	33 6	S <del>-</del>	-	2	-	9	80	က ဗ	30	. m	9	10	4	2	2	9	12	80	2	4	~	_	₹	2	~	<del>-</del>	V	← (	۷ ۳	0 0	1 0	7	-	-	က	က	2	4	4	
Z			21.8	3.1	9.4	æ. ç	5 rc	10.7	8.4	11.8	3.8	7.5	6.8	15.8	0.0	7.6	6.7	5.8	5.7	7.6	9.9	9.6	6	4.4	9.2	5.7	3.9	6	5.4	8.6	8.1	0.5	3.4	1.3	o. 6	10.4	5.2	7.8	4.1	-	8.6	6.7	5.3	8.4	<del>.</del> .	
4		- 6	iω	9.0	2.1	8. 6	1.7	6.	2	2.3	1.5	1.5	1.8	5.4	- c - c	i <del>L</del>	6.7	6:0	1.3	1.2	1.1	1.5	1.8	1.2	1.7	1.5	2.1	9:1	4.2	1.9	1.9	0.4	8.4	8. 4	_ ← Σi α	<u> </u>	1 6.	2.1	1.8	9.0	1.8	1.9	1.3	2.2	0.5	
S S		2 2	3 2	139	က	Ν 4	0 0	, ¥	12	2	7		4	⊽ `	- 2	· ro	4	-	9	-	40	٧	_	4	-	_	က	-	322	<u>\</u>	~	-	379	ω (	∞ ∝	8	57	٧	12	7	21	9	9	48	4	
=	3	0.26	1.01	0.19	0.24	0.23	0.15	0.42	0.29	0.39	0.33	0.13	0.18	0.32	0.18	0.58	0.21	0.19	0.23	0.25	0.27	0.36	0.21	0.13	0.36	0.19	0.09	0.05	0.04	0.09	0.09	0.02	90.0	0.02	0.10	0.12	0.1	0.13	0.05	0.03	0.2	0.04	0.02	0.18	0.01	
=		9 4	2 0	10	9	10	2 6	<sup>2</sup> 20	<10	<10	10	10	20	9 9	2 0	9 1	10	<10	10	10	10	<10	10	20	10	10	<10	10	<10	<10	<10	20	10	10	8 6	90	70 8	10	10	<10	10	<10	20	20	<10	
	1	2.7	12.7	1.9	8.7	4.0	3 6	10.6	9.7	8.9	3.5	3.7	4.3	17.2	1, თ ე თ	, r	4.3	3.5	3.9	4.6	4.7	5.4	9.9	2.2	6.3	4.4	7.9	7.7	11.4	8.4	7.7	1.2	4.2	2.5	٥. / ۵ م	. «	6.2	5.4	3.5	6.0	6	4	6.1	4.9	1.8	
2		0.025	0.063	0.306	0.043	0.051	0.032	1.52	0.892	0.269	1.73	0.043	0.014	0.012	0.03	0.031	0.019	0.018	0.02	0.019	0.015	0.029	0.018	0.123	0.025	0.019	960.0	0.079	1.38	0.074	0.108	0.036	1.195	0.06	0.130	0.18	0.136	0.069	0.043	0.847	0.153	0.01	0.016	0.217	0.019	opm.
£	2	0.57	2.21	0.46	0.49	0.57	80.0 0.3	0.91	0.68	0.73	0.64	0.36	0.31	0.53	0.32	<del>-</del>	0.45	0.4	0.51	0.48	0.43	0.82	0.45	0.26	0.75	0.4	0.02	0.08	0.04	0.12	0.11	<0.01	0.09	0.01	67.0	0.23	0.06	0.17	0.03	0.05	0.44	0.03	0.02	0.26	<0.01	ts are in J
£	B-1	500.0>	<0.005	0.017	<0.005	<0.005	<0.005	0.304	1.18	0.48	0.522	0.012	<0.005	0.005	9000	<0.005	<0.005	0.005	<0.005	<0.005	<0.005	0.01	<0.005	0.005	<0.005	9000	0.035	0.015	0.07	0.024	0.039	0.026	<0.005	0.112	0.006	<0.005	0.079	0.021	0.063	0.025	0.134	0.023	0.672	0.073	0.079	*All elements are in ppm.
Sample ID	Di Didinibi	NEF-03 PCT-01	PCT-02	PNG-01	SEF-01	SEF-02	SEF-03	SINA-01	SINA-02	SINA-04	SINA-05	SING-01	SING-02	SLG-01	SI G-02	SPF-01	SPF-02	SPF-03	SPF-04	SPF-05	SPF-06	TR-01	TR-02	TR-03	TR-04	TR-05	UG012183	UG012184	UG012185	UG012186	UG012187	UG012188	UG012189	UG012190	UG012191 11G012192	11G012193	UG012194	UG012195	UG012196	UG012197	UG012198	UG012199	UG012200	UG012201	UG012202	IV∗

Appendix A: Eastern Sunda arc whole-rock geochemistry

	Yb	1.6	1.22	90.9	1.24	1.46	1.34	1.96	0.92	2.64	1.89	2.48	2	0.86	0.99	1.78	0.99	1.9	3.65	1.33	1.23	1.42	1.67	1.49	2.28	1.28	0.79	2.27	<del>1</del> .	0.54	0.38	0.21	0.48	0.57	0.07	0.31	0.12	0.99	0.43	0.77	0.46	0.64	0.23	0.15	1.32	0.17	0.09	0.85	0.04
	٨	14.9	11.6	65.5	13.1	4.4.4	8.4	16.7	ω į ω į	27.7	18.4	20.8	20.1	9.7	8.9	16.3	9.2	17.9	29.9	11.5	10.9	13	13.7	12.7	21.6	12.4	6.5	20.3	7	2.2	2.3	-	3.4	3.3	0.2	2.3	9.0	8.3	1.6	4.8	4:	5.3	6.0	1.7	12.1	6.0	0.5	8.9	0.2
	Μ	2	4	~	7	<del>.</del> ,	<b>-</b> ,	<del>-</del> (	2 (	7	<del>.</del> .	~	2	က	7	-	_	_	4	2	2	2	က	4	-	-	2	-	~	6	က	80	2	2	7	o	2	7	9	က	ო	2	9	2	7	ო	6	တ	2
	^	237	39	32	22	145	211	127	124	139	30	25	30	172	101	27	130	230	32	121	130	101	131	193	212	145	125	103	94	61	22	20	74	62	48	27	18	89	95	98	92	82	51	24	9/	22	25	88	34
	n	0.19	0.83	2.47	0.26	0.62	0.36	0.49	0.26	1.48	8. 6	6.0	0.65	0.33	0.34	0.89	0.3	4.0	0.38	9.0	0.36	4.0	0.57	0.38	0.23	0.34	0.17	0.46	0.35	0.36	0.37	0.22	0.57	0.33	90:0	60:0	0.05	0.25	0.26	0.43	0.3	0.39	0.21	0.07	0.25	0.12	90:0	0.26	0.05
)	Tm	0.25	0.19	~	0.2	0.22	0.22	0.27	0.15	0.41	0.29	0.36	0.32	0.14	0.14	0.26	0.16	0.28	0.48	0.18	0.18	0.21	0.23	0.22	0.36	0.18	0.11	0.32	0.16	0.05	0.04	0.03	90.0	90.0	0.01	0.03	0.02	0.14	0.05	0.09	0.04	0.11	0.03	0.03	0.21	0.02	0.02	0.13	0.01
	П	0.03	0.22	<0.02	0.07	0.05	90.0	0.03	0.03	6.31	0.2	0.19	0.02	0.02	<0.02	0.05	<0.02	0.02	<0.02	<0.02	<0.02	0.03	<0.02	0.11	0.02	0.03	0.05	0.03	0.04	0.07	0.11	66.0	0.04	0.84	60.0	90.0	0.11	0.19	2.22	0.03	0.48	5.98	1.38	0.11	0.15	<0.02	0.03	0.03	0.02
	Тh	0.46	1.31	1.65	0.61	n 10	2.07	3.07	.2.1	1.43	1.54	1.68	1.09	0.52	1.25	4.7	2.29	1.85	0.67	1.14	0.89	1.23	1.15	0.83	0.81	1.23	0.23	2.2	4.	1.31	1.14	69.0	1.41	1.07	0.17	0.51	0.41	1.53	2.23	1.43	1.67	1.37	1.16	0.24	1.81	1.48	9.70	1.09	0.34
	Те	0.13	90:0	0.03	0.99	0.02	0.05	0.1	0.82	0.0	0.11	0.03	0.13	0.32	0.12	<0.01	0.2	29.0	0.03	0.02	0.02	0.01	0.01	0.02	99.0	0.17	0.27	<0.01	0.17	0.22	0.52	2.25	0.72	0.85	9.0	0.33	0.38	0.19	0.44	0.31	0.37	0.48	1.3	0.58	0.14	0.25	13	5.71	0.68
	Tb	0.37	0.29	1.41	0.31	0.35	0.38	0.42	0.21	0.65	0.44	0.5	0.41	0.29	0.24	0.42	0.22	0.43	99.0	0.33	0.28	0.34	4.0	0.31	0.55	0.34	0.2	0.52	0.29	0.04	0.12	0.05	0.16	0.14	<0.01	0.08	0.02	0.25	0.09	0.22	0.04	0.16	0.04	0.05	0.29	90.0	0.05	0.2	<0.01
	Та	0.3	0.3	9.4	0.2	4.0	4.0	0.4 6.0	0.3	0.3	0.4	0.3	0.3	0.2	0.3	9.0	0.3	0.3	0.3	0.3	0.2	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.2	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.2	0.2	0.2
	Sr	273	10.5	40.9	6.4	352	321	200	165.5	95.2	50.2	44.9	47.3	771	524	133	206	249	132.5	450	362	282	336	223	278	308	152	641	221	306	867	258	503	701	127	69.1	517	301	534	461	798	326	329	73.8	281	457	1125	477	435
	Sn	1	-	_	<del>.</del> .	- ,		<b>.</b> -	Ψ,	_ '	2 0	5	15	2	-	2	_	_	Ÿ	_	-	_	₹	-	_	_	2	2	_	15	4	15	2	က	2	13	4	=	12	4	7	ဂ	9	2	12	9	12	2	7
	Sm	1.73	1.37	5.91	1.06	2.51	2.28	2.44	1.38	2.99	2.31	3.04	1.52	1.97	1.78	3.05	1.32	3.01	2.86	1.69	1.57	1.72	2.21	1.71	2.79	2.3	1.3	2.7	1.68	0.51	1.88	0.62	1.89	1.77	0.04	0.7	0.16	1.91	1.14	1.93	69.0	1.96	8.0	0.23	1.96	1.24	1.31	1.88	0.17
	Se	2.3	0.5	<0.2	5 5	0.2	4.0	4.0	<del>د</del> . و	0.2	6.0 6.0	 5.	<0.2	2.4	4.9	<0.2	0.5	0.3	<del>-</del> -	0.5	0.4	0.3	0.2	2	3.1	0.3	2	<0.2	က	6.6	2	11.5	1.2	1.2	6.1	4.9	1.3	4.7	2.7	2.1	8.6	1.7	5.2	2	4.1	4.0	2.4	1.3	2.5
	Sc	17	4	14	∞ !	15	7,7	7.	10	9	o o	9	2	12	တ	2	10	19	7	1	12	6	11	17	20	7	10	10	6	ဂ	2	<del>-</del>	4	က	_	2	~	2	9	က	4	2	ဂ	2	9	<del>-</del>	7	7	<del>-</del>
	Sample ID	NEF-03	PCT-01	PCT-02	PNG-01	SEF-01	SEF-02	SEF-03	SEF-04	SINA-01	SINA-02	SINA-04	SINA-05	SING-01	SING-02	SLG-01	SLG-02	SLG-03	SPF-01	SPF-02	SPF-03	SPF-04	SPF-05	SPF-06	TR-01	TR-02	TR-03	TR-04	TR-05	UG012183	UG012184	UG012185	UG012186	UG012187	UG012188	UG012189	UG012190	UG012191	UG012192	UG012193	UG012194	UG012195	UG012196	UG012197	UG012198	UG012199	UG012200	UG012201	UG012202

\*All elements are in ppm.

Appendix B: Eastern Sunda arc geochronology data - zircon

25.9         0.00781         11.75         0.0012         4.74         0.00088         11.45         0.0012         4.74         0.00088         11.45         0.0012         4.74         0.00088         11.14         0.0012         4.74         0.00088         11.14         0.0012         2.72         0.0012         1.23         0.0012         2.72         0.0012		837 97 4 72		
00011         55.23         000041         55.73         000041         55.73         000041         55.03         000041         55.23         000	4.72 0.1593	1	7.97	11.19 837.97
CDD         CDD <td>6.69 0.0503</td> <td>9.69</td> <td></td> <td>11.86 979.36</td>	6.69 0.0503	9.69		11.86 979.36
0.0072         2.3.73         0.00089         23.50         6.40         14.20         6.61           0.075         2.43         0.0003         7.3         0.00089         22.50         6.47         14.69         15.31         6.61           0.0752         2.43         0.0003         2.4         0.0004         7.23         6.47         11.63         7.71         49.20           0.0724         0.07         0.07         0.07         2.40         0.0004         7.23         6.47         11.63         7.71         49.20           0.07         0.07         0.07         0.07         0.07         0.07         6.1         0.04         7.24         1.64         1.64         1.04         49.20           0.07         0.00         0.07         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00 </td <td>.8 &lt; DL</td> <td>φ.</td> <td>2.82 7.28</td> <td>822.82 7.2</td>	.8 < DL	φ.	2.82 7.28	822.82 7.2
0.0176         2.9.4         0.00002         2.4.7         8.40         18.48         15.3         0.001           0.0766         2.9.1         0.0006         2.4.7         8.40         18.48         15.3         0.000           0.1784         9.19         0.0001         2.20         0.0004         7.29         7.29         8.45         15.05         15.03           0.0224         1.00         0.0012         4.21         0.0004         7.29         8.45         15.05         15.03           4.D         4.28         0.0012         4.21         0.0004         6.17         15.51         15.00         6.49         10.00           4.D         4.28         0.0012         4.20         0.0004         8.17         15.51         15.00         6.01         15.00           0.0174         4.28         0.0010         6.30         0.0010         6.30         0.0010         8.20         17.70         8.20         17.71         8.20         17.71         8.20         17.71         8.20         17.71         8.20         17.71         8.20         17.71         8.20         17.71         8.20         9.20         17.72         8.20         9.20         17.72 <t< td=""><td></td><td></td><td></td><td>797.00</td></t<>				797.00
0.0076         5.82         0.00046         17.29         6.47         1163         77.71         48.20           0.0274         4.94         0.00071         5.82         0.00176         4.20         0.00046         7.29         6.47         1163         77.71         48.20           0.0224         1.007         0.0071         4.20         0.00046         7.29         6.49         6.40         22.47         20.14         4.80           0.0244         2.28         0.0017         4.80         0.00111         7.75         6.11         6.53         9.80         6.00	0.0841		7	758.15
0.0224	0.0555		4.37 6.16 3.64 6.07	12.17 994.37 6.16 28.89 473.64 6.07
0.0074         5.88         0.0102         4.90         0.01996         6.11         65.30         9.80         649.96         11.05           0.014         2.84         0.00713         2.83         0.0111         17.51         8.24         19.05         0.01           0.0174         2.306         0.00713         2.80         0.0011         17.51         8.24         19.05         0.01           0.0071         2.807         0.0010         6.51         0.00049         17.54         8.24         19.05         0.01           0.0101         1.977         0.0011         4.77         0.00049         17.68         7.04         9.64         10.02         36.55           0.0101         1.977         0.0011         4.77         0.00049         5.69         7.04         9.64         10.02         36.55           0.0101         4.72         0.00049         4.72         0.00049         4.72         7.08         10.02         2.01         6.01         6.01         6.01         6.01         6.01         6.01         6.01         6.01         6.01         6.01         6.01         6.01         7.08         7.09         9.04         10.02         9.01         1.022	0.1335			816.75
CD         41284         00013         9.55         CD         5164         864         1905         6.00         6.00         1964         6.00         6.00         1964         6.00         6.	0.6658		7.09 4.09	45.68 97.09 4.09
0.0194         23.06         0.0014         7.80         0.0014         7.51         8.21         15.60         19.47         46.12           0.0103         7.87         20.07         2.81         0.001         7.16         9.84         10.02         39.13           0.0103         7.87         0.001         4.82         0.0003         15.89         7.69         9.84         10.02         39.13           0.0104         3.14         0.0011         4.82         0.00033         9.64         7.09         10.02         39.13           0.0264         2.2.30         0.0011         4.85         0.00033         9.64         7.09         10.02         39.28           0.0272         1.2.20         0.0011         4.85         0.00036         2.2.31         8.89         19.89         11.98         35.31           0.0272         1.2.20         0.0011         4.25         0.00030         2.43         7.98         11.52         36.31           0.0272         1.2.22         0.0011         4.25         0.00030         2.43         7.98         11.52         37.13         37.13           0.0280         2.3.54         0.0011         4.42         0.00030 <td< td=""><td>- DI</td><td></td><td>5.60 10.51</td><td>735.60 10.51</td></td<>	- DI		5.60 10.51	735.60 10.51
0.0010         6.51         0.00046         5.284         6.71         13.03         7.77         66.13           0.0101         1.778         0.0011         4.77         0.00049         1162         7.64         9.84         10.42         38.55           0.0101         13.74         0.0011         3.55         0.00049         9.64         7.06         7.09         10.02         38.13           0.010         13.44         0.0011         3.55         0.00049         2.66         7.06         7.09         10.09         28.23         4.66           0.01364         2.286         0.0014         4.55         0.00048         8.79         8.69         13.17         < 0.09	0.1140		7.32 7.80	797.32
0.00103         1778         0.0011         477         0.00049         1162         7.16         9.54         1042         35.55           0.0101         13.74         0.0011         4.37         0.00003         15.89         7.64         9.84         10.02         38.13           0.0101         13.44         0.0011         6.89         0.00033         25.60         7.29         13.17         <0.01	0.0537		7.31 6.68	947.31
0.0010         1957         0.0012         482         0.00030         1589         764         944         1022         3813           < v0.01	0.0672			903.60
CD11         3.3.4         0.0011         3.55         0.00043         3.64         7.08         7.09         10.88         36.28           0.034         2.29         0.0011         4.95         0.00045         2.34         7.09         13.17         < 0.01	0.0627			846.07
6 D 1	0.0720			
0.00354         2.3.0         0.00131         9.94         0.000066         23.31         8.68         19.88         35.34         44.60           0.0119         1.75         0.0011         4.56         0.00046         14.72         7.12         9.89         11.98         35.31         44.60           0.0228         1.072         0.0011         4.56         0.00037         14.10         6.78         9.10         12.83         35.31         44.60           0.0228         1.022         0.0011         4.56         0.00030         22.43         7.98         11.82         7.51         54.84           0.0268         1.32         0.0014         1.256         0.00040         22.43         7.98         11.82         7.51         54.84           0.0264         2.02         0.0014         1.256         0.00070         27.87         8.70         25.10         6.78         47.08         36.25         6.78         47.08         36.78         47.08         47.08         47.08         47.08         47.08         47.08         47.08         47.08         47.08         47.08         47.08         47.08         47.08         47.08         47.08         47.08         47.08         47.08	2			871.27
0.0119         17.65         0.0011         4.96         0.00046         44.72         7.12         9.89         11.98         35.31           0.0238         1.072         0.0011         4.42         0.00068         8.79         8.29         8.83         2.98         2.93         2.143           0.0724         2.742         0.0011         4.42         0.00030         22.43         7.98         11.52         7.51         5.48           0.0725         1.337         0.0014         6.23         0.00048         11.61         9.24         12.45         4.25         6.74         3.05           0.0836         2.354         0.0014         1.255         0.00048         11.61         9.24         12.45         4.26         4.00           0.0864         2.036         0.0014         1.46         0.00028         14.56         6.61         8.89         6.46         40.79           0.0074         2.24         0.00048         1.69         0.00028         14.56         0.00048         1.61         8.89         7.18         1.24         40.79           0.0074         2.24         0.00048         1.69         0.00048         1.69         0.0004         1.24         0.	0.1976			735.79
0.0288         10,72         0.0013         4,42         0.00068         8,79         8,22         8,83         29,82         21,43           0.0127         7,52         0.0011         4,55         0.00037         14,10         6,78         9,10         12,83         30,52           0.00425         13,37         0.0014         6,23         0.00148         11,61         9,24         12,45         42,26         28,74           0.0388         33,95         0.0014         12,55         0.00170         7,87         8,70         25,10         67,88         40,79           0.0390         23,54         0.0011         7,48         0.00070         7,87         8,70         25,10         67,88         64,79           0.011         23,10         0.0011         7,13         0.00028         14,56         661         8,89         64,79         47,08           0.017         23,10         0.0011         7,13         0.00028         18,95         7,34         8,99         64,79         47,08           0.0073         1,245         0.001         4,44         0.00028         18,95         7,34         8,99         64,79           0.0074         2,00         0.0	0.0780			907.33
0.0072         15.38         0.0011         4.55         0.00030         24.3         7.98         11.52         7.51         5.484           0.0074         27.42         0.0014         6.78         0.00040         22.43         7.98         11.52         7.51         5.484           0.00425         1.337         0.0014         6.23         0.00048         20.95         9.37         2.869         36.72         67.89           0.00530         23.54         0.0014         1.255         0.00070         27.87         8.70         25.10         52.45         47.08           0.0064         20.39         0.0014         1.255         0.00073         1.78         6.61         8.89         6.41         40.79           0.0146         26.10         0.0014         7.44         0.00028         18.83         7.18         18.38         6.11         6.41           0.0077         1.745         0.0014         6.40         0.00073         17.78         8.95         7.78         4.51         9.48           0.0074         2.745         0.0014         6.40         0.00073         17.78         8.78         4.71         5.22           0.0074         2.745	0.1724	_	4.42	788.38 4.42
0.0074         2742         0.0012         576         0.00030         24.3         7.98         11.52         7.51         54.44           0.0425         1.337         0.0014         14.65         0.00748         11.61         9.24         12.45         7.51         6.78           0.0386         3.356         0.0014         12.55         0.00070         27.87         8.70         55.10         55.44         4.70           0.0544         2.354         0.0011         1.46         0.00073         1.456         6.61         8.89         6.46         4.07           0.0064         2.036         0.0011         7.69         0.00073         1.78         6.74         8.09         6.41         4.09           0.0116         2.611         0.0011         7.49         0.00073         1.78         6.74         8.09         6.41         4.07         6.74         8.09         6.41         4.07         6.74         8.09         6.41         4.07         6.74         8.09         6.41         4.07         6.74         8.09         6.41         4.07         6.74         8.09         6.41         4.07         6.74         8.09         6.17         4.09         6.00         6.	0.0884	0	4.55	4.55
0.00425         13.37         0.0014         6.23         0.00148         1161         9.24         12.45         42.56         26.74           0.00368         33.55         0.0015         14.85         0.00286         20.95         9.37         29.69         36.72         67.89           0.0036         23.54         0.0014         12.55         0.00028         20.85         7.18         15.38         6.41         47.08           0.0046         22.39         0.0011         7.69         0.00028         18.95         7.18         15.38         6.41         64.79           0.0046         22.10         0.0011         7.69         0.00034         10.77         6.74         8.09         7.43         49.79           0.0046         22.10         0.0014         6.40         0.00034         10.77         6.79         11.72         5.22           0.0074         22.10         0.0014         6.40         0.00034         10.77         6.74         8.09         7.43         48.99           0.0074         22.78         0.0014         6.40         0.00049         2.18         8.76         11.72         5.22           0.0074         22.78         0.0014	0.0439	0	5.78	813.37 5.78
0.0368         3.35 6         0.0015         1485         0.00286         2.055         9.37         2969         36.72         67.89           0.0350         2.354         0.0014         1.255         0.00070         27.87         8.70         55.10         52.45         47.08           0.0064         2.0.39         0.0011         7.69         0.00028         14.36         6.61         8.89         6.11         64.19           0.0116         28.11         0.0011         7.63         0.00034         18.95         7.36         14.26         17.72         52.22           0.0073         17.45         0.0014         6.40         0.00034         10.77         6.74         8.09         7.43         34.89           0.0074         2.246         0.0014         6.40         0.00073         15.49         9.15         12.79         17.72         52.22           0.0074         1.74         0.00049         2.18         8.74         1.09         6.13         4.43           0.0074         2.27         0.00049         2.18         8.74         1.205         8.95         6.43           0.0075         2.18         0.00049         2.18         8.64         1.2	0.2142	0	6.15	701.12 6.15
0.00530         23.54         0.0014         12.55         0.00070         27.87         8.70         25.10         52.45         47.08           0.0064         20.39         0.0010         4.44         0.00028         14.56         661         8.89         6.46         40.79           0.014         22.10         0.0011         7.69         0.00034         12.88         7.78         14.28         7.42         40.79           0.015         26.11         0.0011         7.13         0.00034         10.77         6.74         8.09         7.43         34.89           0.0075         27.45         0.0014         6.40         0.00034         10.77         6.74         8.09         7.42         45.13           0.0075         27.56         0.0014         5.50         0.00043         17.76         6.69         10.99         6.13         34.89           0.0074         2.978         0.0014         5.97         0.00049         21.88         8.76         11.33         74.7         59.57           0.0089         28.22         0.0014         6.09         0.00042         21.88         8.76         11.33         74.7         59.57           0.0089         28	0.1881	J	14.85	691.64 14.85
0.0064         20.39         0.0010         4.44         0.00026         14.56         6.61         8.89         6.46         40.79           < DA	0.2855		18.24	
< DL         32.10         0.0011         7.69         0.00031         28.83         7.18         15.38         < DL         64.19         64.19         0.0014         7.13         0.00058         18.95         7.36         14.26         11.72         52.22           0.0075         2.2.56         0.0014         6.40         0.00034         10.77         6.69         10.29         11.72         52.22           0.0074         2.6.52         0.0014         6.40         0.00031         17.45         6.69         10.29         6.13         34.89           0.0074         2.9.78         0.0014         6.03         0.00043         17.76         6.69         10.29         6.13         33.44           0.0074         2.9.78         0.0014         6.03         0.00042         21.25         9.24         12.05         8.99         6.43         33.44           0.0075         3.2.19         0.0016         8.46         0.00042         35.68         9.91         16.92         15.64         64.39           0.0075         3.2.19         0.0014         6.03         0.0042         35.68         9.91         16.92         15.64         64.39           0.0075         3.2.19	0.0453	Ū	4.37	
0.0116         26.11         0.0011         7.13         0.00056         18.95         7.36         14.26         11.72         52.22           0.0073         7.45         0.0010         4.04         0.00034         10.77         6.74         8.09         7.43         34.89           0.0153         22.56         0.00104         6.40         0.00034         17.76         6.69         10.39         6.13         34.89           0.0074         25.20         0.0014         6.97         0.00049         7.78         6.94         10.39         6.13         3.34           0.0074         28.22         0.0014         6.03         0.00046         21.26         9.24         12.05         8.99         6.13         3.34           0.0077         1.162         0.0001         8.46         0.00042         35.68         9.91         16.92         15.64         64.39           0.0474         13.11         0.0016         8.46         0.00042         35.68         9.91         16.92         15.64         64.39           0.0475         13.11         13.11         0.0018         5.77         0.0016         3.58         9.91         16.92         15.64         64.39	^ DI			897.71 7.69
0.0073         17.45         0.0010         4.04         0.00034         10.77         6.74         8.09         7.43         34.89           0.00153         22.56         0.00014         6.40         0.00073         15.49         9.15         12.79         15.42         45.13           0.0064         22.56         0.00014         6.40         0.00049         21.28         9.24         11.93         7.47         59.7           0.0089         28.22         0.0014         6.03         0.00049         21.25         9.24         12.05         8.99         56.43           0.00771         11.62         0.0016         6.18         0.0018         11.77         12.61         12.37         7.544         23.26           0.0155         32.19         0.0015         8.46         0.00042         35.68         9.91         16.92         15.64         64.39           0.0474         13.11         0.0018         5.77         0.0017         11.73         11.54         47.05         22.25           0.0474         13.11         0.0018         5.77         0.00043         3.58         7.97         23.33         64.39           0.0474         13.11         0.0011	0.0742		7.58 7.13	15.19 877.58 7.13
0.0153         2.256         0.0014         6.40         0.00073         15.49         9.15         12.79         15.42         45.13           0.0061         2.652         0.0010         5.50         0.00049         2.188         8.76         11.93         7.47         53.04           0.0074         2.878         0.0014         6.03         0.00049         2.188         8.76         11.93         7.47         53.04           0.0075         2.822         0.0014         6.03         0.00066         21.86         9.91         16.25         8.99         56.43           0.0771         11.62         0.0014         6.03         0.0016         11.77         12.61         12.37         7.54         23.25           0.0774         13.11         0.0018         5.77         0.0018         7.97         22.33         29.40         64.39           0.0754         47.12         0.0017         11.6         0.00063         3.58         7.97         22.33         29.40         64.39           0.0754         13.11         0.0012         11.6         0.00063         3.68         7.97         22.33         29.40         64.39           0.0756         2.72 <td< td=""><td>0.0509</td><td></td><td></td><td>952.89</td></td<>	0.0509			952.89
0.0061         2.6.52         0.0010         5.50         0.00031         17.76         6.69         10.99         6.13         53.04           0.0074         2.9.78         0.0049         21.88         8.76         11.93         7.47         58.57           0.0089         2.8.22         0.0014         6.03         0.00066         21.25         9.24         12.05         8.99         56.43           0.0155         3.2.19         0.0012         1.16         0.00042         35.68         9.91         15.44         47.05         58.25           0.0294         27.28         0.0012         1.16         0.00063         36.58         7.97         22.33         29.40         54.56           0.0153         19.94         0.0012         1.16         0.00063         36.58         7.97         22.33         29.40         54.56           0.0266         24.70         0.0013         5.56         0.00063         36.58         0.006         27.07         12.70         49.40         54.56           0.0266         24.70         0.0014         6.35         0.00063         20.16         8.49         10.89         8.70         49.40           0.0747         1.18	0.0798		3.68 6.38	
0.0074         29.78         0.00049         21.88         8.76         11.93         747         58.57           0.0089         2.82.2         0.0014         6.03         0.00066         21.25         9.24         12.05         8.99         56.43           0.0771         1.162         0.0020         6.18         0.00062         11.77         12.61         12.37         75.44         23.25           0.0774         1.162         0.0016         8.46         0.00042         35.68         9.91         15.64         64.39           0.0744         13.11         0.0018         8.46         0.00042         35.68         7.97         22.33         29.40         64.56           0.0294         27.28         0.0012         11.6         0.00063         36.54         8.16         11.90         15.43         39.88           0.0366         24.70         0.0013         5.44         0.00063         20.16         8.49         10.89         8.70         49.40 <ahree< td=""> <ahree< a="">         0.00060         20.16         8.49         10.89         8.70         49.40           <ahree< td=""> <ahree< a="">         0.00060         20.16         8.70</ahree<></ahree<></ahree<></ahree<>	0.0426			
0.0089         2.8.22         0.0014         6.03         0.00056         21.25         9.24         12.05         8.99         56.43           0.0771         11.62         0.0020         6.18         0.00042         35.68         9.91         12.37         75.44         23.25           0.0155         32.19         0.0015         8.46         0.00042         35.68         9.91         16.92         16.84         6.33           0.0247         13.11         0.0018         8.77         0.0017         11.15         47.05         28.22           0.0286         27.28         0.0012         11.16         0.00063         18.54         8.16         11.90         15.43         39.88           0.0015         14.94         0.0013         5.44         0.00063         20.16         8.49         10.89         8.70         49.40           < DL	0.0398			
0.0771         1162         0.0020         6.18         0.00182         1177         1261         12.37         75.44         23.25           0.0455         32.19         0.0015         8.46         0.00042         35.68         9.91         16.92         15.64         64.39           0.0474         13.11         0.0015         8.46         0.00042         35.68         9.91         16.92         15.64         64.39           0.0284         27.28         0.0012         11.16         0.00063         36.54         8.16         11.90         15.43         39.88           0.0086         24.70         0.0013         5.95         0.00063         16.70         7.20         12.70         49.40         49.40           < DL	0.0453			699.56
0.0155 32.19 0.0015 8.46 0.00042 35.68 9.91 16.92 15.64 64.39 64.39 0.0474 13.11 0.0018 5.77 0.00157 11.73 11.54 16.92 29.40 64.39 20.0024 27.28 0.0012 11.14 0.00063 30.58 7.97 22.33 29.40 64.56 26.22 0.00264 24.70 0.0013 5.95 0.00063 16.74 8.49 10.89 8.70 15.49 84.9 0.0014 5.54 0.00050 16.70 7.20 17.70 17.70 17.84 0.0014 5.54 0.00059 16.70 7.20 17.70 17.70 17.84 0.0014 5.54 0.00055 8.34 16.27 8.70 11.08 17.14 6.73 19.84 0.0015 16.27 8.70 11.08 17.14 6.73 10.0055 16.27 8.70 11.08 17.14 17.01 1	0.2850		2.57 6.20	18.34 512.57 6.20
0.0474 13.11 0.0018 5.77 0.00157 11.73 11.54 47.05 26.22   0.0234 27.28 0.0012 11.16 0.00063 30.58 7.97 22.33 29.40 54.56   0.00153 19.94 0.0013 5.95 0.00059 18.54 84.9 10.89 8.70 15.43 39.88   0.0016 24.70 0.0013 5.44 0.00050 16.70 7.20 12.70   0.0178 17.84 0.0014 5.54 0.00057 16.27 8.70 11.08 1617.16 6.73 10.179 8.51 0.0025 5.54 0.00055 8.34 162.2 11.08 17.12 17.01   0.0056 23.44 0.0013 4.66 0.00042 16.11 8.14 9.32 5.63 46.89   0.00167 15.81 0.0014 3.87 0.00041 16.17 8.14 8.35 8.35 11.08 17.17 17.01   0.0057 15.81 0.0014 3.87 0.00041 16.17 8.14 8.35 8.35 14.1   0.00152 19.21 0.0013 5.68 0.00051 16.35 87 17.37 15.59 38.41	0.0715			653.33
0.0284 27.28 0.0012 11.16 0.00063 30.58 7.97 22.33 29.40 54.56 54.56 0.0015 19.94 0.0013 5.95 0.00063 18.54 8.16 11.90 15.43 39.88 0.0086 24.70 0.0013 5.44 0.00050 20.16 8.49 10.89 8.70 49.40 4.0012 13.36 0.0011 6.35 0.00059 16.70 7.20 12.70 6.91 66.73 9.108  3.39 0.00011 6.35 0.00505 16.70 8.70 12.70 6.91 16.71 6.67 17.84 0.0014 5.54 0.00505 8.34 16.23 11.08 17.88 35.68 0.0055 8.34 16.23 17.08 17.01 17.0	0.1896		5.70	557.27
0.0086 24.70 0.0013 5.96 0.00063 18.54 8.16 11.90 15.43 39.88 0.0086 24.70 0.0013 5.44 0.00050 20.16 8.49 10.89 8.70 49.40 9.40 0.0014 6.35 0.00059 16.70 7.20 12.70 6.9  6.9 16.73 9.88 0.0017 8.39 0.00014 6.54 0.00059 16.70 7.20 12.70 6.9 16.71 6.73 17.81 8.58 16.73 17.84 0.0014 6.54 0.00057 8.34 16.23 11.08 11.08 17.88 35.68 17.00 17.39 8.51 0.00056 2.344 0.00013 3.87 0.00041 16.11 8.14 9.32 5.53 46.89 17.01 0.0015 16.81 0.00014 3.87 0.00041 16.17 8.14 9.32 5.53 46.89 17.01 0.00152 19.21 0.0013 6.88 0.00051 16.35 8.71 17.	0.1675		3.01 11.21	26.75 816.01 11.21
COORSE   CALL   COORTIS   CALL	0.0885		3.28 6.35	12.87 788.28 6.35
< DL         33.36         0.0011         6.35         0.00059         16.70         7.20         12.70         < DL         6673           3.9168         3.39         0.0370         3.34         0.06433         3.35         234.01         6.69         1617.16         6.78         11           0.0178         17.84         0.0014         5.54         0.00057         16.27         8.70         11.08         17.88         35.68           0.0266         23.44         0.00025         5.54         0.00050         8.34         16.23         11.08         131.21         17.01           0.0056         23.44         0.00013         4.66         0.00042         16.11         8.14         9.32         5.63         46.89           0.0057         15.81         0.0014         3.87         0.00041         16.11         8.14         7.75         8.78         31.61           0.0152         19.21         0.0013         5.68         0.00041         13.35         8.07         13.77         15.29         38.41	0.0482		3.79 8.72	11.31 763.79 8.72
3.9168         3.39         0.0370         3.34         0.05433         3.35         234.01         6.69         1617.16         6.78         1           0.0178         17.84         0.0014         5.54         0.00057         16.27         8.70         11.08         17.88         35.68           0.1379         8.51         0.0025         5.54         0.00505         8.34         16.23         11.08         131.21         17.01           0.0056         23.44         0.0013         4.66         0.00042         16.11         8.14         9.32         5.63         46.89           0.0087         15.81         0.0014         3.87         0.00041         17.7         8.77         8.77         8.78           0.0152         19.21         0.0015         5.89         0.00054         18.35         8.07         11.37         15.92         33.61	^ DI		3.84 6.36	898.84 6.36
0.0178         17.84         0.0014         5.54         0.00055         8.34         16.23         11.08         17.88         35.68           0.1379         8.51         0.0025         5.54         0.00505         8.34         16.23         11.08         131.21         17.01           0.0056         23.44         0.0013         4.66         0.00042         16.11         8.14         9.32         5.63         46.89           0.0087         15.81         0.0014         3.87         0.00041         6.17         8.74         7.75         8.78         31.61           0.0152         19.21         0.013         5.68         0.0064         8.13         13.7         15.29         38.41	0.8088		7.34 3.03	100.29 27.34 3.03
0.1379         8.51         0.0026         5.54         0.00505         8.34         16.23         11.08         131.21         17.01           0.0056         23.44         0.0013         4.66         0.00042         16.11         8.14         9.32         5.63         46.89           0.0087         15.81         0.0014         3.87         0.00041         6.17         8.74         7.75         8.78         31.61           0.0152         19.21         0.0013         5.68         0.00053         18.35         8.07         11.37         15.29         38.41	0.0960		0.47 5.54	12.08 740.47 5.54
0.0056 23.44 0.0013 4.66 0.00042 16.11 8.14 9.32 5.63 46.89 0.0087 15.81 0.0014 3.87 0.00041 6.17 8.74 7.75 8.78 31.61 0.0152 19.21 0.0013 5.68 0.00053 18.35 80.7 11.37 15.29 38.41	0.3884		5.97 5.25	20.47 395.97 5.25
0.0087 15.81 0.0014 3.87 0.00041 6.17 8.74 7.75 8.78 31.61 0.15 19.21 0.0013 5.88 0.00063 18.35 8.07 11.37 15.29 38.41	0.0320			793.66
0.0152 1921 0.0013 5.68 0.00063 1835 8.07 1137 15.29 38.41	0.0468			
1.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00	0.0876			793.62

Appendix B: Eastern Sunda arc geochronology data - zircon

Analysis ID	Pref_Age_Ma	2s%	206Pb/238U	2s%	238U/206Pb	18%	207 Pb/206Pb	18%	207 Pb/235U	18%	206Pb/238U	18%	208Pb/232Th	18%	206Pb/238U	2s%	207Pb/235U(calc)	2s%	208Pb/232Th	2s%
LB025_323_zr25	7.6	6.6			849.07	4.55	0.0370	23.82	0900:0	23.44	0.0012	4.93	0.00046	14.69	7.58	9.86	6.05	46.87	9.36	29.37
LB025_323_zr26	7.3	.,	7.31	23.36	90.899	9.67	0.2317	20.18	0.0471	18.24	0.0015	8.75	0.00161	19.04	9.55	17.51	46.72	36.48	32.67	38.09
LB025_323_zr27	7.5	19.8	7.51	19.80	524.10	2.67	0.3539	11.02	0.0951	9.58	0.0019	5.66	0.00351	8.88	12.29	11.33	92.24	19.16	71.12	17.75
LB025_323_zr28	8.3		8.30	16.41	464.97	4.35	0.3636	8.40	0.1068	7.34	0.0022	5.00	0.00464	7.21	13.87	9.99	103.03	14.68	93.76	14.42
LB025_323_zr29	8.5		8.50	10.36	752.60	2.00	0.0474	23.31	0.0087	22.82	0.0013	4.99	0.00046	20.16	8.51	9.98	8.82	45.65	9.28	40.32
LB025_323_zr3	7.7	(-)	7.71	38.98	235.77	4.21	0.6161	6.74	0.3475	6.10	0.0043	4.20	0.00697	5.66	27.54	8.40	302.86	12.19	140.76	11.32
LB025_323_zr30	8.6		8.56	8.94	731.55	4.22	0.0697	16.38	0.0131	15.90	0.0014	4.22	0.00048	16.87	8.83	8.44	13.25	31.80	9.72	33.73
LB025_323_zr31	8.6		8.60	16.45	727.50	7.48	0.0666	29.39	0.0130	28.50	0.0014	7.82	0.00070	19.79	8.83	15.65	13.08	27.00	14.22	39.59
LB025_323_zr32	7.9	1.1	7.91	11.06	755.08	5.04	0.1059	16.09	0.0193	15.37	0.0013	5.02	0.00044	19.09	8.55	10.03	19.42	30.74	8.90	38.18
LB025_323_zr33	9.6	26.9	9.59	26.95	380.53	8.07	0.3886	12.48	0.1430	10.70	0.0026	7.97	0.00580	10.81	16.91	15.95	135.73	21.39	117.29	21.62
LB025_323_zr34	8.2		8.20	9.35	778.46	4.47	0.0549	19.44	0.0097	18.98	0.0013	4.47	0.00044	15.03	8.29	8.94	6.79	37.96	8.98	30.06
LB025_323_zr35	8.1	10.2	8.10	10.18	755.53	4.71	0.0886	16.37	0.0158	15.75	0.0013	4.71	0.00069	11.60	8.56	9.41	15.92	31.51	13.96	23.19
LB025_323_zr36	8.3	1.1	8.33	11.10	715.53	4.57	0.1092	14.53	0.0212	13.88	0.0014	5.10	0.00056	11.82	9.05	10.21	21.35	27.75	11.39	23.63
LB025_323_zr37	7.1	16.6	7.09	16.60	536.19	4.53	0.3714	8.64	0.0952	7.52	0.0019	4.53	0.00309	7.38	12.04	90.6	92.35	15.04	62.53	14.76
LB025_323_zr38	8.1	10.2	8.14	10.16	683.70	4.33	0.1530	11.79	0.0307	11.08	0.0015	4.34	0.00100	10.05	9.41	8.67	30.70	22.16	20.19	20.10
LB025_323_zr39	7.5	10.0	7.46	10.03	856.19	4.77	0.0592	20.06	0.0096	19.54	0.0012	4.78	0.00055	13.33	7.58	9.55	9.66	39.09	11.11	26.66
LB025_323_zr4	8.3		8.35	8.60	755.39	4.08	0.0630	16.61	0.0115	16.17	0.0013	4.08	0.00055	14.70	8.53	8.17	11.56	32.34	11.11	29.40
LB025_323_zr40	8.6	12.4	8.64	12.36	724.53	6.49	0.0729	22.17	0.0137	21.45	0.0014	5.81	0.00038	27.92	8.94	11.62	13.86	42.91	7.65	55.83
LB025_323_zr41	8.5	23.2	8.53	23.24	519.38	7.71	0.2907	16.24	0.0790	14.37	0.0019	7.74	0.00364	13.89	12.35	15.49	77.21	28.74	73.66	27.78
LB025_323_zr42	9.6	15.8			668.65	7.84	< DL	34.83	< DF	33.97	0.0015	7.89	0.00071	24.84	9.64	15.77	< DL	67.93	14.38	49.67
LB025_323_zr43	8.0	12.7	7.96	12.73	804.54	9.00	0.0511	27.55	0.0088	26.91	0.0012	6.11	0.00051	20.00	8.01	12.22	8.91	53.82	10.29	40.01
LB025_323_zr44	8.7	4.9			745.09	2.38	0.0431	11.16	0.0080	11.23	0.0013	2.44	0.00045	4.49	8.66	4.88	8.07	22.46	9.10	8.98
LB025_323_zr6	7.8	12.8	7.81	12.83	759.24	5.79	0.1139	17.95	0.0207	17.07	0.0013	5.76	0.00052	19.62	8.54	11.52	20.83	34.13	10.58	39.25
LB025_323_zr7	7.2	18.1	7.15	18.11	746.13	7.36	0.1843	18.57	0.0340	17.26	0.0013	7.38	0.00079	13.57	8.67	14.75	33.92	34.52	15.95	27.15
LB025_323_zr8	8.0	•	8.00	12.63	786.33	5.89	0.0716	22.87	0.0123	22.14	0.0013	5.94	0.00089	15.28	8.27	11.88	12.43	44.28	18.09	30.55
LB025_323_zr9	8.0		7.95	7.20	812.61	3.48	0.0465	16.26	0.0078	15.96	0.0012	3.47	0.00045	8.38	7.96	6.95	7.91	31.93	90'6	16.77
LB032_326_zr1	11.2		11.24	13.10	532.92	5.95	0.1056	19.07	0.0275	18.32	0.0019	5.94	0.00085	15.96	12.15	11.89	27.57	36.64	17.14	31.93
LB032_326_zr10	9.7		9.68	9.33	645.32	4.40	0.0682	17.28	0.0145	16.78	0.0015	4.41	0.00040	17.20	96.6	8.81	14.58	33.57	8.05	34.40
LB032_326_zr11	12.2		12.24	7.49	496.64	3.45	0.0893	11.90	0.0246	11.49	0.0020	3.47	0.00118	11.96	12.95	6.94	24.68	22.98	23.85	23.92
LB032_326_zr12	18.3		18.32	3.15	345.47	1.42	0.0602	5.20	0.0242	5.69	0.0029	1.53	0.00104	4.00	18.65	3.05	24.23	11.37	21.09	7.99
LB032_326_zr13	11.1		11.09	14.29	465.24	5.91	0.2030	11.99	0.0596	11.03	0.0021	6.02	0.00250	8.51	13.83	12.04	58.79	22.05	50.51	17.01
LB032_326_zr14	9.6		9.59	14.72	637.39	6.77	0.0942	22.85	0.0206	22.00	0.0016	6.77	0.00083	19.76	10.21	13.54	20.70	44.00	16.79	39.52
LB032_326_zr15	11.5				557.55	6.14	< DL	30.81	< DL	30.31	0.0018	6.20	0.00083	18.03	11.50	12.40	∨ DL	60.62	16.89	36.06
LB032_326_zr2	16.8		16.78	5.86	378.62	2.70	0.0588	11.01	0.0215	11.01	0.0026	2.81	0.00105	7.70	17.04	5.62	21.62	22.02	21.27	15.40
LB032_326_zr3	10.4	9.6	10.37	9.56	615.68	4.59	0.0590	19.06	0.0133	18.70	0.0016	4.56	0.00059	13.33	10.54	9.11	13.46	37.41	11.98	26.66
LB032_326_zr4	10.6				609.30	7.15	< DL	38.19	√ DF	37.60	0.0016	7.23	0.00062	21.31	10.61	14.46	¬D >	75.21	12.66	42.63
LB032_326_zr5	11.8	10.9			546.66	5.49	0.0445	26.12	0.0113	25.69	0.0018	5.45	0.00068	13.86	11.78	10.90	11.38	51.38	13.70	27.71
LB032_326_zr6	10.2				633.24	6.36	0.0376	26.48	0.0081	26.04	0.0016	5.08	0.00049	15.40	10.19	10.16	8.22	52.08	9.97	30.81
LB032_326_zr7	10.9	7.0	10.89	7.03	589.85	3.05	0.0472	14.16	0.0110	13.91	0.0017	3.41	0.00057	9.63	10.91	6.83	11.06	27.82	11.55	19.27
LB032_326_zr8	11.3	6.8			572.28	3.26	0.0451	15.46	0.0108	15.19	0.0017	3.39	0.00055	11.37	11.26	6.78	10.91	30.37	11.14	22.73
LB032_326_zr9	10.3	7.8	10.28	7.82	613.84	3.24	0.0620	13.22	0.0138	12.91	0.0016	3.77	0.00064	9.85	10.49	7.53	13.95	25.82	12.89	19.70
LB033_327_zr1	17.6	10.9	17.62	10.87	338.04	4.92	0.1092	15.27	0.0451	14.58	0.0030	4.93	0.00208	13.93	19.13	9.87	44.81	29.15	42.22	27.85
LB033_327_zr10	17.7	2.8	17.65	2.78	363.26	1.24	0.0531	4.37	0.0200	4.99	0.0028	1.36	0.00085	3.24	17.80	2.72	20.11	9.99	17.24	6.49
LB033_327_zr2	17.7	5.8			363.85	2.90	0.0455	13.63	0.0172	13.41	0.0028	2.90	0.00105	11.12	17.72	5.79	17.30	26.82	21.30	22.24
LB033_327_zr3	18.7	9.7	18.75	9.66	337.02	4.29	0.0593	18.05	0.0240	17.60	0.0030	4.64	0.00111	17.63	19.06	9.27	24.10	35.19	22.57	35.27

Appendix B: Eastern Sunda arc geochronology data - zircon

Analysis ID	Pref Age Ma	2s%	206Pb/238U Age	2s%	238U/206Pb ratio	18%	207Pb/206Pb ratio	1s%	207Pb/235U (calc) ratio	18%	206Pb/238U ratio	18%	208Pb/232Th ratio	1s%	206Pb/238U Age (Ma)	2s%	207Pb/235U(calc) Age (Ma)	2s%	208Pb/232Th Age (Ma)	2s%
LB033_327_zr4	17.5	4.0	17.54	4.00	364.45	1.93	0.0552	7.82	0.0211	8.05	0.0028	1.93	0.00105	5.89	17.74	3.85	21.21	16.10	21.26	11.77
LB033_327_zr5	17.71	5.6	17.74	5.64	358.41	2.57	0.0597	10.41	0.0232	10.44	0.0028	2.70	0.00097	6.70	18.05	5.41	23.29	20.88	19.74	13.40
LB033_327_zr6	17.6	3.6	17.60	3.56	333.43	1.53	0.1179	4.16	0.0491	4.72	0.0030	1.64	0.00145	3.79	19.35	3.29	48.69	9.44	29.41	7.57
LB033_327_zr7	20.7	5.3	20.73	5.33	296.77	2.25	0.0848	7.69	0.0399	7.83	0.0034	2.52	0.00150	7.46	21.78	5.04	39.68	15.67	30.37	14.92
LB033_327_zr8	18.7	10.7	18.72	10.74	340.19	4.32	0.0678	17.30	0.0281	16.95	0.0030	5.15	0.00115	10.50	19.24	10.31	28.09	33.89	23.31	21.00
LB033_327_zr9	17.9	8.4	17.87	8.45	362.32	3.43	0.0486	15.52	0.0188	15.38	0.0028	4.12	0.00096	11.34	17.92	8.24	18.86	30.76	19.45	22.67
LB034_328_zr1	7.0	22.1			923.51	12.87	< DL	51.21	< DL	50.08	0.0011	11.07	0.00049	32.94	7.01	22.14	< DL	100.16	9.97	65.88
LB034_328_zr11	7.7	10.7			835.97	5.36	0.0351	28.98	0.0058	28.52	0.0012	5.37	0:00030	19.86	7.69	10.74	5.86	57.04	6.17	39.71
LB034_328_zr12	7.4	6.6			869.52	4.98	0.0451	23.61	0.0072	23.14	0.0012	4.94	0.00041	12.79	7.42	9.88	7.29	46.27	8.31	25.59
LB034_328_zr13	6.4	9.4	6.38	9.44	980.82	4.86	0.0691	17.38	0.0097	16.87	0.0010	4.45	0.00042	13.29	6.57	8.91	9.80	33.74	8.45	26.58
LB034_328_zr15	9.7	11.4			847.37	5.72	0.0452	27.29	0.0073	26.73	0.0012	5.70	0.00039	21.90	7.64	11.40	7.40	53.47	7.84	43.80
LB034_328_zr16	7.8	11.9			817.10	5.92	< DL	36.66	< DL	36.21	0.0012	5.94	0.00055	18.27	7.85	11.87	< DL	72.41	11.19	36.54
LB034_328_zr17	6.8	11.3			947.61	5.85	0.0438	23.52	0.0063	23.06	0.0011	5.64	0.00036	16.40	6.80	11.28	6.37	46.12	7.22	32.81
LB034_328_zr18	6.1	16.3	6.14	16.32	947.68	9.34	0.1234	21.76	0.0179	20.58	0.0011	7.24	0.00040	24.25	6.80	14.48	18.00	41.15	8.06	48.51
LB034_328_zr19	8.1	17.4	8.09	17.45	753.23	8.16	0.0896	27.97	0.0162	26.83	0.0013	8.06	0.00073	18.60	8.55	16.11	16.31	53.67	14.81	37.21
LB034_328_zr2	7.0	10.3			920.37	5.14	0.0397	26.17	0.0060	25.70	0.0011	5.15	0.00041	15.21	6.98	10.30	6.04	51.41	8.27	30.42
LB034_328_zr20	8.9	10.7	6.84	10.66	933.58	5.10	0.0544	22.32	0.0080	21.78	0.0011	5.10	0.00044	16.29	6.91	10.20	8.14	43.56	8.82	32.59
LB034_328_zr21	6.3	8.7			1029.96	4.33	0.0284	25.82	0.0038	25.50	0.0010	4.33	0.00036	13.40	6.26	8.65	3.83	51.00	7.30	26.80
LB034_328_zr22	7.0	9.4	6.99	9.35	918.22	4.04	0.0465	18.98	0.0069	18.61	0.0011	4.54	0.00033	12.78	7.00	9.09	7.02	37.21	6.78	25.56
LB034_328_zr23	7.3	12.4	7.29	12.36	839.04	8.34	0.0857	20.28	0.0139	19.52	0.0012	5.73	0.00079	13.44	7.67	11.47	13.99	39.04	16.03	26.87
LB034_328_zr24	9.7	8.3	7.58	8.30	818.49	3.90	0.0745	14.66	0.0125	14.21	0.0012	3.90	0.00046	9.27	7.86	7.80	12.66	28.42	9.28	18.53
LB034_328_zr25	7.2	10.6	7.24	10.57	872.58	5.38	0.0651	20.15	0.0103	19.58	0.0012	5.01	0.00064	12.27	7.42	10.01	10.38	39.15	13.03	24.54
LB034_328_zr26	9.7	12.4	7.57	12.35	811.38	62.5	0.0831	20.61	0.0142	19.85	0.0012	5.74	0.00089	13.49	7.94	11.49	14.33	39.71	17.98	26.99
LB034_328_zr27	8.0	15.7	8.03	15.69	775.21	8.85	0.0641	30.20	0.0111	29.31	0.0013	7.44	0.00088	19.88	8.21	14.88	11.20	58.62	17.81	39.75
LB034_328_zr28	7.9	12.8	78.7	12.79	794.43	6.02	0.0703	23.39	0.0121	22.65	0.0013	6.03	0.00048	19.83	8.12	12.05	12.26	45.30	9.71	39.66
LB034_328_zr29	9.7	12.5	7.56	12.47	792.40	7.37	0.1040	18.29	0.0179	17.47	0.0013	2.67	0.00063	14.39	8.15	11.34	18.01	34.93	12.73	28.78
LB034_328_zr3	7.1	10.8	7.15	10.76	861.60	5.02	0.0787	18.48	0.0125	17.85	0.0012	5.03	0.00042	16.83	7.46	10.06	12.59	35.69	8.53	33.65
LB034_328_zr30	8.7	14.9			741.92	14.93	< DL	44.81	<dl></dl>	44.22	0.0013	7.44	0.00063	22.22	8.69	14.89	< DL	88.44	12.84	44.45
LB034_328_zr34	7.2	10.7			897.08	6.23	0.0462	25.25	0.0071	24.72	0.0011	5.35	0.00036	18.32	7.17	10.69	7.14	49.45	7.32	36.63
LB034_328_zr5	6.4	22.6	6.42	22.62	462.36	4.50	0.4732	7.88	0.1394	99.9	0.0022	4.51	0.00489	6.62	13.95	9.01	132.50	13.32	28.97	13.23
LB034_328_zr6	6.9	9.5			928.79	4.78	0.0277	28.71	0.0041	28.36	0.0011	4.75	0.00038	15.19	6.92	9.50	4.14	56.71	7.69	30.37
LB034_328_zr7	7.2	28.9			883.81	13.85	< DL	55.74	< DΓ	54.11	0.0011	14.47	0.00035	46.28	7.24	28.95	< DL	108.22	7.01	92.57
LB034_328_zr9	6.5	11.6			988.70	5.77	< DL	31.36	< DL	30.86	0.0010	5.79	0.00018	27.15	6.49	11.58	< DL	61.72	3.74	54.30
LB041_330_zr1	7.2	12.5	7.16	12.49	877.94	6.18	0.0730	22.38	0.0116	21.65	0.0012	5.87	0.00056	14.78	7.41	11.74	11.66	43.30	11.30	29.55
LB041_330_zr10	8.9	18.8	6.80	18.80	806.26	6.58	0.1778	16.55	0.0315	15.47	0.0013	8.27	0.00088	11.89	8.16	16.54	31.52	30.94	17.75	23.78
LB041_330_zr11	9.9	7.7	6.63	79.7	964.40	3.65	0.0513	16.20	0.0074	16.02	0.0010	3.69	0.00036	8.20	6.67	7.37	7.52	32.03	7.22	16.39
LB041_330_zr12	9.9	9.6			982.47	4.02	0.0460	18.85	0.0066	18.61	0.0010	4.80	0.00038	10.00	09.9	9.60	6.63	37.23	7.74	20.00
LB041_330_zr13	7.1	7.8			913.46	3.89	0.0371	20.20	0.0057	20.00	0.0011	3.89	0.00037	10.12	7.05	7.77	5.73	40.00	7.54	20.23
LB041_330_zr14	9.9	14.0	6.58	13.97	972.03	6.70	0.0549	29.17	0.0078	28.44	0.0010	6.68	0.00045	23.98	6.65	13.36	7.87	56.88	9.19	47.95
LB041_330_zr15	6.2	19.7			1059.05	12.64	< DL	46.81	<dl></dl>	45.79	0.0010	9.84	0.00034	31.64	6.20	19.67	< DL	91.58	6.84	63.28
LB041_330_zr16	6.9	10.7	6.88	10.67	834.46	3.88	0.1346	11.20	0.0225	10.61	0.0012	4.88	0.00074	8.67	7.74	9.76	22.62	21.22	14.97	17.34
LB041_330_zr17	7.1	12.5	7.08	12.46	886.93	13.74	0.0624	24.29	0.0096	23.61	0.0011	5.92	0.00041	20.52	7.23	11.83	9.70	47.21	8.24	41.04
LB041_330_zr19	5.7	18.0			1140.78	9.02	< DL	45.43	<dl></dl>	44.56	0.0009	8.98	< DL	38.01	5.70	17.96	< DL	89.13	< DL	76.03
LB041_330_zr2	6.7	17.8	6.73	17.79	744.03	8.10	0.2268	15.58	0.0429	14.31	0.0014	6.74	0.00076	13.54	8.72	13.48	42.61	28.61	15.47	27.09

Appendix B: Eastern Sunda arc geochronology data - zircon

Analysis ID	Pref_Age_Ma	a 2s%	206Pb/238U Age	2s%	238U/206Pb ratio	18%	207Pb/206Pb ratio	18%	207Pb/235U (calc) ratio	18%	206Pb/238U ratio	1s%	208Pb/232Th ratio	18%	206Pb/238U Age (Ma)	2s%	207Pb/235U(calc) Age (Ma)	2s% 5	208Pb/232Th Age (Ma)	2s%
LB041_330_zr22	7.2	12.4	7.23	12.38	889.99	5.99	0.0486	27.49	0.0075	26.89	0.0011	5.96	0.00030	24.34	7.25	11.91	7.61	53.78	6.05	48.67
LB041_330_zr23	7.1	10.4	7.09	10.37	882.14	4.89	0.0694	19.06	0.0108	18.48	0.0011	4.89	0.00042	17.86	7.30	9.78	10.94	36.96	8.53	35.71
LB041_330_zr24	6.3	3.6	6.33	9.61	990.95	4.55	0.0678	17.87	0.0094	17.35	0.0010	4.54	0.00034	14.29	6.51	9.08	9.53	34.71	6.97	28.58
LB041_330_zr25	7.1		_		921.36	3.75	0.0366	19.67	0.0056	19.49	0.0011	4.48	0.00029	9.26	7.06	8.97	5.65	38.98	5.93	18.52
LB041_330_zr26	6.9	11.1			942.26	5.59	0.0461	26.24	0.0068	25.79	0.0011	5.56	0.00026	17.38	6.85	11.11	6.91	51.58	5.21	34.75
LB041_330_zr27	6.3			6.91	1022.61	2.93	0.0480	13.29	0.0065	13.24	0.0010	3.36	0.00033	6.02	6.31	6.72	6.62	26.48	69.9	12.05
LB041_330_zr28	6.5	10.2	6.45	10.23	980.36	4.87	0.0594	20.41	0.0083	19.89	0.0010	4.87	0.00045	13.39	6.56	9.75	8.43	39.77	9.10	26.78
LB041_330_zr29	6.9	11.9	98.9	11.89	907.64	5.72	0.0701	21.77	0.0106	21.09	0.0011	5.60	0.00033	19.34	7.07	11.20	10.69	42.18	6.71	38.68
LB041_330_zr3	6.9	15.2			944.62	99.2	< DL	39.96	< DL	39.32	0.0011	7.61	0.00052	17.50	6.85	15.23	< DL	78.63	10.52	35.00
LB041_330_zr30	6.8	15.4			926.36	7.66	< DL	40.32	< DL	39.68	0.0011	7.69	0.00022	26.74	6.80	15.38	< DL	79.36	4.46	53.49
LB041_330_zr31	9.9	3 7.4	6.65	7.38	09:096	3.36	0.0531	14.64	0.0077	14.50	0.0010	3.56	0.00030	6.94	6.71	7.12	7.81	29.01	6.16	13.88
LB041_330_zr32	9.9	6.9	6.57	6.85	969.10	3.15	0.0561	13.43	0.0080	13.15	0.0010	3.29	0.00038	7.94	6.65	6.58	8.07	26.30	7.69	15.88
LB041_330_zr33	9.9	3 7.9	6:59	7.86	972.55	3.58	0.0482	16.41	0.0068	16.10	0.0010	3.80	0.00027	12.32	6.61	7.60	06.90	32.19	5.41	24.64
LB041_330_zr34	7.1	11.3	7.07	11.31	844.36	5.14	0.1064	16.37	0.0176	15.78	0.0012	5.13	0.00078	11.93	7.65	10.25	17.70	31.55	15.77	23.86
LB041_330_zr35	6.1	9.0	6.13	9.05	1010.15	4.22	0.0817	15.12	0.0113	14.77	0.0010	4.22	0.00041	10.01	6.42	8.44	11.42	29.54	8.38	20.01
LB041_330_zr4	6.8	3 7.2	6.81	7.16	922.42	3.39	0.0628	13.79	0.0094	13.45	0.0011	3.40	0.00040	8.58	6.95	6.80	9.49	26.90	8.09	17.17
LB041_330_zr5	7.3	3 12.4	7.25	12.40	892.94	6.43	0.0500	27.10	0.0077	26.48	0.0011	5.96	0.00027	24.41	7.29	11.91	7.81	52.97	5.48	48.82
LB041_330_zr6	9.9	3 14.6	6.57	14.64	952.29	9.90	0.0693	26.95	0.0101	26.19	0.0011	6.91	0.00025	26.71	6.77	13.81	10.22	52.39	4.99	53.42
LB041_330_zr7	6.9	9.6			937.25	4.78	0.0332	26.36	0.0049	26.06	0.0011	4.78	0.00043	13.67	6.87	9.56	2.00	52.13	8.78	27.34
LB041_330_zr8	7.4	11.0	7.39	11.05	818.24	7.40	0.0934	17.25	0.0156	16.56	0.0012	5.08	0.00049	13.99	7.86	10.16	15.76	33.13	9.91	27.98
LB041_330_zr9	8.2	21.9	8.19	21.95	807.36	9.61	0.0565	41.16	0.0101	40.07	0.0013	10.56	0.00047	29.27	8.29	21.13	10.17	80.14	9.43	58.54
LB042_331_zr1	7.3	3 14.5		14.49	681.85	5.49	0.2252	12.70	0.0456	11.57	0.0015	5.52	0.00115	11.71	9.43	11.04	45.24	23.13	23.35	23.41
LB042_331_zr10	7.3	3 13.8	7.33	13.83	843.29	6.42	0.0767	23.92	0.0125	23.09	0.0012	6.48	0.00057	17.06	7.63	12.97	12.63	46.18	11.46	24.11
LB042_331_zr11	8.0	12.4	1.96	12.35	761.00	5.65	0.0932	19.26	0.0168	18.47	0.0013	5.69	0.00097	11.85	8.46	11.37	16.91	36.94	19.70	23.71
LB042_331_zr12	7.9	15.1			818.07	7.55	> DL	35.90	√ DF	35.21	0.0012	7.55	0.00040	27.39	7.92	15.09	TO >	70.41	8.18	54.78
LB042_331_zr13	7.1	34.7	7.15	34.74	697.34	13.10	0.2303	30.13	0.0462	27.29	0.0014	13.06	0.00171	22.87	9.32	26.13	45.89	54.58	34.65	45.73
LB042_331_zr14	7.2	10.8			889.14	5.40	< DL	40.94	< DL	40.67	0.0011	5.41	0.00037	15.01	7.24	10.82	< DL	81.34	7.58	30.01
LB042_331_zr15	7.7	12.6	5 7.72	12.63	757.71	5.65	0.1169	17.32	0.0215	16.59	0.0013	5.65	0.00067	14.79	8.48	11.31	21.58	33.19	13.50	29.58
LB042_331_zr16	6.9	13.9	6.94	13.86	900.34	6.53	0.0662	26.14	0.0100	25.35	0.0011	6.56	0.00038	21.67	7.12	13.11	10.12	50.71	7.67	43.34
LB042_331_zr17	6.9	19.0	6.91	19.00	889.70	14.39	0.0838	31.59	0.0132	30.46	0.0011	8.83	0.00091	18.30	7.25	17.65	13.27	60.91	18.53	36.59
LB042_331_zr18	6.9	9.5	6.91	9.48	908.67	4.49	0.0667	17.78	0.0101	17.27	0.0011	4.48	0.00042	13.97	7.09	8.97	10.23	34.54	8.45	27.93
LB042_331_zr19	7.1	18.6	7.15	18.60	858.59	15.87	0.0895	29.86	0.0142	28.64	0.0012	8.59	0.00051	25.02	7.56	17.18	14.30	57.28	10.35	50.05
LB042_331_zr2	9.9	13.9		13.89	739.19	6.33	0.2344	11.73	0.0439	10.66	0.0013	5.22	0.00138	11.21	8.64	10.43	43.59	21.32	27.97	22.43
LB042_331_zr20	7.0			13.45	893.48	7.20	0.0752	23.69	0.0118	22.89	0.0011	6.31	0.00061	14.31	7.23	12.62	11.87	45.77	12.31	28.63
LB042_331_zr21	7.5	10.6		10.57	808.72	5.23	0.0901	16.84	0.0153	16.19	0.0012	4.88	0.00046	14.57	7.92	9.75	15.45	32.39	9.24	29.14
LB042_331_zr22	6.2	12.1	6.20	12.06	1004.51	2.67	0.0733	21.54	0.0101	20.84	0.0010	5.66	0.00032	19.32	6.42	11.33	10.18	41.69	6.48	38.64
LB042_331_zr23	7.8	3 15.5	7.79	15.49	778.02	7.01	0.1001	23.31	0.0177	22.27	0.0013	7.07	0.00037	21.78	8.36	14.14	17.84	44.54	7.49	43.55
LB042_331_zr24	6.5	5 18.3	6.49	18.33	960.73	8.59	0.0763	32.09	0.0111	31.05	0.0010	8.58	0.00016	35.70	6.75	17.16	11.24	62.09	3.29	71.40
LB042_331_zr25	7.9	16.2	7.90	16.19	662.95	6.45	0.1918	16.13	0.0401	15.01	0.0015	6.51	0.00147	13.88	69.6	13.03	39.92	30.01	29.67	27.77
LB042_331_zr26	8.0	) 22.6	7.99	22.60	752.74	10.38	0.0895	36.21	0.0165	34.79	0.0013	10.44	0.00087	20.41	8.46	20.87	16.63	69.58	17.56	40.82
LB042_331_zr27	6.7	7 16.9	6.74	16.86	883.52	7.64	0.1079	24.33	0.0166	23.16	0.0011	7.62	0.00048	20.88	7.31	15.24	16.69	46.32	9.75	41.76
LB042_331_zr27	9.2	20.9	9.18	20.92	605.59	8.88	0.1554	24.13	0.0358	22.60	0.0017	8.90	0.00320	14.30	10.65	17.79	35.73	45.20	64.66	28.60
LB042_331_zr28	10.1	28.2			653.84	14.28	< DL	45.55	< DL	43.40	0.0016	14.08	< DL	60.61	10.06	28.17	< DL	86.80	< DL <	121.22
LB042_331_zr29	6.9	10.7	6.88	10.71	913.33	9.94	0.0654	20.32	0.0098	19.74	0.0011	5.07	0.00047	13.45	7.05	10.14	9.94	39.48	9.55	26.91
LB042_331_zr3	7.9	33.3	7.95	33.29	366.12	6.48	0.4848	11.10	0.1873	9.48	0.0028	6.40	0.00654	8.87	17.84	12.80	174.32	18.96	132.21	17.73

Appendix B: Eastern Sunda arc geochronology data - zircon

Analysis ID	Pref_Age_Ma	2s%	206Pb/238U Age	2s%	238U/206Pb ratio	18%	207Pb/206Pb ratio	1s%	207Pb/235U (calc) ratio	1s%	206Pb/238U ratio	1s%	208Pb/232Th ratio	18%	206Pb/238U Age (Ma)	2s%	207Pb/235U(calc) Age (Ma)	2s%	208Pb/232Th Age (Ma)	2s%
LB042_331_zr31	8.3	19.6	8.31	19.56	666.03	8.25	0.1606	22.08	0.0337	20.66	0.0015	8.25	0.00079	18.27	9.72	16.51	33.70	41.32	15.92	36.55
LB042_331_zr32	9.9	16.7			89.086	8.39	> DF	80.45	\ < DL	90.08	0.0010	8.36	0.00062	18.66	6.62	16.72	∨ DF	160.13	12.56	37.32
LB042_331_zr33	7.3	22.5	7.30	22.50	646.11	8.05	0.2572	17.69	0.0553	16.00	0.0015	8.04	0.00150	15.18	9.92	16.08	54.67	31.99	30.36	30.37
LB042_331_zr4	8.1	31.6	8.13	31.64	427.03	7.81	0.4043	14.57	0.1314	12.38	0.0023	7.98	0.00304	13.42	14.86	15.97	125.37	24.76	61.46	26.85
LB042_331_zr5	7.0	10.4			917.81	90.9	0.0364	27.68	0.0054	27.23	0.0011	5.22	0.00047	15.70	7.01	10.45	5.52	54.46	9.46	31.41
LB042_331_zr6	7.0	15.2	6.95	15.16	930.66	6.62	0.0484	30.60	0.0070	29.92	0.0011	7.35	0.00033	19.63	6.97	14.70	7.09	59.84	6.67	39.26
LB042_331_zr7	6.7	16.9	6.75	16.88	646.05	5.50	0.2960	11.55	0.0622	10.25	0.0015	5.56	0.00188	9.84	9.86	11.11	61.32	20.50	38.14	19.68
LB042_331_zr8	8.3	15.6	8.29	15.59	672.16	8.75	0.1586	17.75	0.0334	16.55	0.0015	09.9	0.00111	12.22	99.6	13.20	33.34	33.10	22.39	24.44
LB042_331_zr9	8.1	11.7	8.07	11.74	780.04	7.89	0.0610	23.12	0.0107	22.49	0.0013	5.58	0.00042	19.33	8.22	11.16	10.81	44.99	8.50	38.66
LB045_332_zr1	20.0	11.7	20.04	11.70	286.63	4.54	0.1356	12.28	0.0661	11.82	0.0035	5.35	0.00186	9.33	22.58	10.70	65.03	23.64	37.72	18.65
LB045_332_zr10	20.7	6.3	20.72	6.33	311.22	2.80	0.0468	12.94	0.0210	12.73	0.0032	3.08	0.00106	10.58	20.73	6.15	21.05	25.47	21.39	21.16
LB045_332_zr11	21.1	7.1	21.10	7.11	303.85	3.04	0.0520	13.39	0.0240	13.32	0.0033	3.44	0.00128	10.42	21.25	6.89	24.05	26.63	25.85	20.83
LB045_332_zr12	21.9	5.1	21.89	5.08	293.96	2.47	0.0468	11.12	0.0222	11.18	0.0034	2.46	0.00115	6.77	21.90	4.92	22.26	22.36	23.29	13.53
LB045_332_zr13	21.8	5.6			295.10	2.42	0.0435	11.30	0.0206	11.37	0.0034	2.80	0.00108	4.90	21.79	5.61	20.69	22.74	21.82	9.81
LB045_332_zr14	21.7	0.9	21.74	5.95	276.60	2.72	0.1005	8.79	0.0509	8.51	0.0036	2.72	0.00189	7.36	23.34	5.45	50.45	17.02	38.30	14.73
LB045_332_zr15	15.4	97.2	15.36	57.62	185.21	10.89	0.4907	18.85	0.3689	15.69	0.0054	10.89	0.03139	12.28	34.96	21.77	318.85	31.37	626.55	24.56
LB045_332_zr16	19.9	0.9	19.92	6.03	321.96	2.78	0.0552	11.46	0.0242	11.46	0.0031	2.91	0.00124	8.23	20.15	5.81	24.27	22.92	25.19	16.46
LB045_332_zr17	20.4	9.9	20.43	6.63	301.58	2.87	0.0813	10.26	0.0375	10.20	0.0033	3.13	0.00153	6.85	21.37	6.26	37.42	20.40	31.00	13.70
LB045_332_zr19	22.0	6.2	21.99	6.21	294.51	2.87	0.0471	13.15	0.0223	13.12	0.0034	3.01	0.00118	7.15	22.01	6.02	22.38	26.23	23.89	14.30
LB045_332_zr2	20.4	9.8	20.37	8.62	280.91	3.57	0.1343	9:26	0.0666	9.35	0.0036	3.91	0.00243	7.72	22.92	7.81	65.52	18.70	49.12	15.45
LB045_332_zr20	20.7	6.1	20.66	6.12	302.13	2.81	0.0682	10.71	0.0313	10.69	0.0033	2.91	0.00134	8.01	21.25	5.82	31.26	21.38	27.18	16.01
LB045_332_zr21	19.7	10.8	19.66	10.85	327.50	5.27	0.0550	22.77	0.0235	22.32	0.0031	5.19	0.00088	18.41	19.87	10.37	23.62	44.64	17.87	36.82
LB045_332_zr22	19.1	9.9	19.07	6.57	334.53	3.21	0.0580	13.26	0.0244	13.16	0.0030	3.14	0.00108	8.19	19.36	6.27	24.45	26.32	21.93	16.39
LB045_332_zr3	20.6	6.4	20.64	6.42	311.76	3.11	0.0467	14.42	0.0207	14.17	0.0032	3.10	0.00142	12.29	20.65	6.20	20.80	28.34	28.70	24.59
LB045_332_zr4	20.1	5.7			320.66	2.74	0.0443	13.04	0.0190	12.84	0.0031	2.83	0.00103	12.13	20.08	5.66	19.07	25.68	20.95	24.27
LB045_332_zr6	20.2	6.2	20.18	6.24	302.74	2.74	0.0943	8.98	0.0437	8.98	0.0033	2.91	0.00125	7.55	21.48	5.81	43.46	17.95	25.30	15.11
LB045_332_zr7	21.7	1.4			296.10	1.99	0.0463	8.87	0.0217	9.02	0.0034	2.07	0.00107	2.67	21.70	4.14	21.84	18.11	21.74	11.33
LB045_332_zr8	21.1	9.6	21.08	9.57	282.24	3.50	0.1097	12.40	0.0534	11.94	0.0036	4.41	0.00136	7.31	22.90	8.82	52.84	23.88	27.52	14.61
LB045_332_zr9	19.7	6.2	19.68	6.19	321.55	2.93	0.0606	11.81	0.0261	11.76	0.0031	2.96	0.00109	8.10	20.03	5.91	26.15	23.52	22.15	16.19
ELF-03_zr1	2.7	25.4	2.65	25.37	1998.06	10.18	0.1927	25.26	0.0135	23.18	0.0005	10.18	0.00127	19.29	3.26	20.36	13.59	46.35	25.77	38.57
ELF-03_zr10	3.0	12.6	3.01	12.56	1888.30	5.46	0.1411	15.28	0.0103	14.38	0.0005	5.46	0.00063	13.72	3.42	10.92	10.36	28.76	12.74	27.45
ELF-03_zr11	2.8	10.3	2.76	10.26	2259.04	4.76	0.0679	18.76	0.0041	18.21	0.0004	4.86	0.00024	14.94	2.84	9.71	4.14	36.42	4.86	29.88
ELF-03_zr12	2.3	38.8	2.33	38.82	1899.09	10.55	0.2847	22.46	0.0200	19.87	0.0005	15.56	0.00104	21.81	3.34	31.11	20.15	39.74	20.98	43.62
ELF-03_zr13	2.5	13.9	2.54	13.92	2248.05	6.07	0.1444	17.01	0.0088	15.96	0.0005	5.99	0.00047	13.04	2.90	11.97	8.86	31.93	9.56	26.08
ELF-03_zr14	4.8	84.7	4.78	84.71	75.94	1.53	0.7963	2.06	1.4565	3.11	0.0132	1.56	0.07802	2.68	84.44	3.12	912.55	6.22	1522.84	5.35
ELF-03_zr15	2.7	27.5	2.65	27.50	1837.30	13.76	0.2280	23.79	0.0167	21.51	0.0005	10.46	0.00128	18.69	3.44	20.91	16.80	43.03	25.85	37.38
ELF-03_zr16	2.6	1.1	2.65	11.08	2379.16	5.23	0.0567	22.36	0.0033	21.80	0.0004	5.30	0.00023	17.21	2.68	10.59	3.35	43.60	4.58	34.41
ELF-03_zr17	2.6	17.4			2473.53	8.77	< DL	37.14	< DL	36.15	0.0004	8.68	0.00036	26.78	2.63	17.37	< DL	72.29	7.31	53.55
ELF-03_zr18	2.7	46.5	2.73	46.52	546.52	4.01	0.6540	6.27	0.1666	5.53	0.0018	4.19	0.00735	5.18	11.84	8.37	156.43	11.06	148.42	10.36
ELF-03_zr19	2.9	34.8	2.86	34.83	1737.89	13.32	0.2161	31.74	0.0166	28.82	0.0006	13.44	0.00205	22.90	3.65	26.89	16.74	57.64	41.51	45.80
ELF-03_zr2	3.2	22.8			2046.46	11.59	∨ DΓ	41.54	< DL	40.04	0.0005	11.38	0.00177	17.16	3.21	22.76	< DF	80.07	35.81	34.32
ELF-03_zr20	2.1	16.9	2.12	16.94	2675.35	7.32	0.1423	20.68	0.0072	19.40	0.0004	7.33	0.00036	21.17	2.41	14.65	7.30	38.79	7.36	42.35
ELF-03_zr21	1.8	117.7	1.81	117.65	589.26	98.9	0.7065	10.67	0.1672	8.30	0.0017	06.9	0.01243	8.47	11.03	13.79	156.94	16.60	250.37	16.95
ELF-03_zr22	2.9	20.8	2.87	20.82	1383.38	6.04	0.3478	11.85	0.0349	10.30	0.0007	6.05	0.00192	10.24	4.65	12.10	34.84	20.61	38.85	20.48
ELF-03_zr3	2.9	15.5	2.94	15.54	2131.56	7.32	0.0704	28.37	0.0046	27.54	0.0005	7.32	0.00028	24.58	3.04	14.63	4.66	55.08	5.70	49.16

Appendix B: Eastern Sunda arc geochronology data - zircon

2.6.         0.00005         7.77         0.00006         7.74         0.000         7.14         0.24         0.145         0.15         5.12         0.16         0.15         0.0000         0.000         0.000         0.000         0.0
0.0044         3.55         0.00016         8.06         2.60         7.10         2.01         3.72         3.72
0.0044         6.19         0.00013         12.65         2.81         12.37         2.89         62.72         2.80           0.0044         2.18         0.00014         2.18         0.00014         2.18         0.00014         2.89         0.0004         2.89         0.0004         2.89         0.0004         0.0004         2.18         0.00014         2.18         0.0004         2.18         0.0004         2.18         0.0004         2.18         0.0004         2.18         0.0004         2.18         0.0004         2.18         0.0004         2.18         0.0004         2.18         0.0004         2.18         0.0004         2.18         0.0004         2.18         0.0004         2.18         0.0004         2.18         0.0004         2.18         0.0004         2.18         0.0004         2.18         0.0004
0.0044         2.88         0.00018         7.18         2.74         5.76         5.66         16.99         3.80           0.0044         8.15         0.00014         2.03         2.04         5.76         16.29         4.67         2.88           0.0046         8.15         0.00014         4.03         4.03         4.05         17.24         4.44         5.24           0.0044         5.24         0.00024         17.37         2.70         1.22         4.44         4.07         1.73           0.0044         5.24         0.00024         17.37         2.70         1.22         4.44         4.07         4.73           0.0044         5.73         0.0002         2.27         1.02         4.44         4.07         4.73           0.0044         5.73         0.0002         1.24         2.72         1.02         4.44         4.07         2.73           0.0044         1.24         2.73         1.14         2.73         1.14         4.44         4.07         5.14           0.0044         1.24         2.73         1.14         2.73         4.44         4.44         4.73         4.73           0.0044         1.24         2.24
0.0004         8.15         0.00014         2.05         4.05
0.0004         5.25         0.0023         4.03         4.05         4.05         7.03         4.05         7.03         4.05         7.03         4.05         7.03         4.04         4.04         4.04         4.05         6.05           0.0004         6.15         0.00024         17.37         2.70         12.29         7.04         6.48         4.78         6.55           0.0004         6.15         0.00019         8.55         2.27         12.29         4.04         2.07         6.55           0.0004         6.15         0.00024         8.43         7.72         6.29         6.01         6.49         4.78           0.0004         6.15         0.00029         8.44         7.72         6.39         6.01         6.17         6.01           0.0004         6.25         0.00029         3.44         4.25         6.01
0.00004         5.34         0.00004         7.37         2.70         1.70
0.0004         524         0.0001         6.55         2.82         10.46         4.44         23.75         3.87           0.0004         6.57         < 0.0016
0.0004         1.56         0.00105         2.72         5.03         3.32         4.09         4.89         2.12           0.0004         6.71         < 0.01
0.0004         6.71         < DL         43.3         2.87         13.42         < DL         91.37         < DL           0.0004         5.63         0.00         4.14         7.76         11.25         0.00         6.0         0.00         0.00         1.421         7.76         11.25         0.00
0.0004         563         < D         3164         276         1125         < D         6107
0.00042         8.44         772         5.38         8.11         23.97         8.47           0.0004         12.43         0.00283         14.21         4.28         2.87         5.36         58.48           0.0004         12.43         0.00283         14.21         4.28         2.87         5.36         5.89           0.0004         5.78         0.00028         10.58         3.70         11.56         6.03         5.03         4.08           0.0006         5.78         0.00028         10.58         3.70         11.56         6.06         5.03         4.08         57.23           0.0006         5.78         0.00028         10.58         3.70         11.56         8.65         3.03         4.08         57.23         57.23         57.23         57.23         57.23         57.23         57.23         57.23         57.23         57.23         57.23         57.23         57.23         59.44         18.77         10.21         57.23         59.44         18.77         10.21         59.44         18.77         10.21         59.44         18.77         10.21         59.44         18.77         10.22         59.44         18.77         10.21         59.44         18.77 </td
0.0004         12.43         0.00289         14.21         4.28         24.87         50.78         33.86         58.48           0.0004         5.09         0.00012         19.22         2.67         1.18         50.8
0.0004         5.09         0.00012         19.22         2.75         10.18         < DL         4.00         2.39           0.0004         3.72         0.00233         9.09         28.57         7.43         5.758         20.98         57.23           0.0006         4.77         0.00041         10.28         3.74         8.34         13.55         11.6         9.09         57.23           0.0004         7.52         < C.DL
0.0044         3.72         0.00283         9.09         26.57         7.43         57.58         20.98         7.72           0.0006         5.78         0.00020         10.58         3.70         11.56         865         30.38         4.08           0.0006         5.78         0.00020         10.58         3.70         11.56         86.5         30.38         4.08           0.0004         7.22         < L
0,0006         5,78         0,00020         10,58         3,70         11,56         8,65         9,03         4,08           0,0006         4,17         0,00041         10,29         3,41         8,34         13,55         19,16         8,38           0,0004         4,75         0,00041         6,20         0,0004         7,52         7,69         13,23         96,07         13,14         25,94           0,00012         6,52         0,00069         7,52         7,60         13,23         94,45         18,77         10,21           0,00012         6,53         0,00069         7,82         7,60         13,23         94,45         18,77         10,21           0,00012         7,63         0,00069         7,82         6,71         11,17         10,21         25,94         55,55         18,10           0,00006         7,53         0,00046         7,82         6,71         11,17         3,24         11,18         <0,1
0,0004         7,52         < D,00         341         8,34         13,56         19,16         8,38           0,0004         7,52         < D,0
0.0004         7.52         < D         22.54         2.88         15.03         < D         64.36         < D           0.0012         5.14         0.00043         6.30         7.65         10.28         96.07         13.14         28.94           0.0012         5.14         0.00069         14.58         7.60         16.27         94.45         18.77         10.28           0.0006         7.83         0.00086         7.82         6.71         11.17         102.83         11.17         10.28           0.0009         22.34         0.00046         14.58         3.76         44.67         33.51         40.05         29.44           0.0009         22.34         0.00046         14.16         2.74         11.77         32.5         14.76         8.01         29.44         10.05         8.04         8.01         29.44         10.05         8.04         8.05         8.04         8.04         8.04         8.01         8.04         8.04         8.04         8.04         8.04         8.01         8.04         8.04         8.04         8.04         8.04         8.04         8.04         8.04         8.04         8.04         8.04         8.04         8.04         8.0
0.0012         5.14         0.00143         6.30         7.65         10.28         96.07         13.14         28.94           0.0012         6.62         0.00059         7.52         7.60         13.23         94.45         18.77         10.21           0.0006         7.63         0.00089         7.63         7.76         13.23         94.45         18.77         10.21           0.0009         2.34         0.00046         7.82         6.71         11.17         10.28         11.17         90.12           0.0009         2.34         0.00047         8.29         6.04         4.47         3.25         4.05         5.93         11.17         90.12         9.04         9.06         9.01         18.00         9.01         9.04         9.05         18.00         9.01         9.04         9.05         18.00         9.01         9.06         9.04         9.05         9.01
0.0012         6.62         0.00080         7.52         7.60         13.23         94.45         18.77         10.21           0.0006         7.63         0.00089         14.58         3.79         15.27         29.45         25.55         18.10           0.0000         7.58         0.00036         7.82         6.71         11.17         10.283         11.17         80.12           0.0000         7.38         < D.00145
0,0006         7,63         0,00089         14,58         3,79         15,27         29,45         25,55         18,10           0,0001         5,58         0,00396         7,82         6,71         11,17         102,83         11,17         80,12           0,0005         2,234         0,00145         18,00         6,67         11,17         10,23         14,76         80,23         11,17         80,12           0,0005         4,67         0,0002         4,67         11,81         < D,1
0.0010         5.58         0.00396         7.82         6.71         11.17         102.83         11.17         80.12           0.0009         22.34         0.00145         18.00         6.06         44.67         33.51         40.05         29.44           0.0009         7.38         -cDL         11.17         3.23         14.76         -cDL         55.20         -cDL         55.20           0.0006         4.67         0.00035         14.16         2.74         11.81         -cDL         46.52         -cDL         5.50           0.0004         7.15         -cDL         192.7         2.37         14.30         -cDL         46.52         -cDL         46.52         -cDL         5.50           0.0004         7.15         -cDL         192.7         2.37         14.30         -cDL         46.52         -cDL         40.93         -cDL         46.52         -cDL         40.93         -cDL <td< td=""></td<>
0,0009         22,34         0,0045         18,00         6,06         4467         3351         4,056         29,44           0,0005         7,38         ~ DL         111,72         323         14,76         ~ DL         55.20         ~ DL         15.00           0,0004         4,67         0,00027         8.29         3.06         9,34         9,66         20,51         ~ DL         5.50           0,0004         4,67         0,00025         14,16         2.74         11,81         ~ DL         46,52         7.12           0,0004         7,15         ~ DL         31,36         2.34         12,39         ~ DL         29,43         7.12           0,0004         7,15         0,0002         17,69         2.72         11,33         5.00         38,65         5.29           0,0004         7,50         0,0003         19,44         3.17         14,47         ~ DL         43,90         7.51           0,0004         7,50         0,00044         2.53         15,50         3.24         21,33         43.2         83.7           0,0004         7,50         0,00043         2.64         15,50         3.24         21,33         43.2         83.7 </td
0,0005         7,38         < DI         111,72         3,23         14,76         5,24         0,01         55,20         0,DI           0,0004         5,41         0,000427         8,29         3,06         9,34         9,66         20,51         5,50           0,0004         5,51         0,00035         14,16         2,74         11,81         < DL
0,0006         4,67         0,00027         8,29         3,06         9,34         9,66         20,51         5,50           0,0004         5,91         0,00035         14,16         2,74         11,81         < D
0,0004         5,91         0,00035         14,16         274         11,81         < D.         46,52         7,12           0,0004         6,59         < D.
0,0004         6,58         < cDL         31,36         2,82         13,19         < cDL         91,38         < cDL           0,0004         7,15         < cDL
0.0004         7.15         < < DL         1927         2.37         14.30         < DL         7.064         < DL           0.0006         6.18         0.00120         10.02         4.09         12.36         28.49         27.40         24.38           0.0004         5.67         0.00026         17.69         3.77         14.37         6.00         38.65         5.29           0.00024         1.62         0.0044         2.53         15.60         3.24         27.33         4.49         7.51           0.0004         7.50         0.00033         20.36         2.86         15.01         < DL
0,0006         6.18         0,000120         10.02         4.09         12.36         28.49         21.40         24.38           0,0004         5,67         0,00026         17.69         27.2         11.33         5.00         38.65         5.29           0,0005         7,23         0,00037         19.44         3.17         14.47         < D.
0.0004         5.67         0.00026         17.69         2.72         11.33         5.00         38.65         5.29           0.0005         7.23         0.00037         19.44         3.17         14.47         < DL
0.0026         7.23         0.00037         19.44         3.17         14.47         < DL         44.90         7.51           0.0024         1.62         0.00444         2.53         15.50         3.24         213.33         4.32         83.79           0.0004         7.50         0.00033         20.36         15.65         9.64         7.50         8.79         8.79           0.0004         7.50         0.00188         2.84         13.57         < DL
0.0024         1,62         0.00414         2,53         15.50         32.4         213.33         4.32         83.79           0.0004         7,50         0.00033         20.36         2,86         15.01 <dl< td="">         55.79         6.65           0.0004         6.79         <dl< td="">         21.93         2.84         13.57         <dl< td="">         55.79         6.65           0.0004         6.79         <dl< td="">         21.93         2.84         13.57         <dl< td="">         48.05         <dl< td="">           0.0013         2.81         43.57         <dl< td="">         48.05         <dl< td="">         40.06           0.0004         6.02         <dl< td="">         43.77         <dr< td="">         28.7         24.21         24.22         28.04           0.0005         4.69         0.00013         9.65         2.97         9.37         <dl< td="">         59.18         <dl< td="">         42.14         41.74         <dl< td="">         42.14         41.74         <dl< td="">         42.14         42.14         42.14         42.14         42.14         42.14         42.14         42.14         42.14         42.14         42.14         42.14         42.14         42.14         42.14         42.14         42.14         42.14</dl<></dl<></dl<></dl<></dr<></dl<></dl<></dl<></dl<></dl<></dl<></dl<></dl<></dl<>
0.0024         7.50         0.00033         2.9.36         1.50 ft         6.6.7         6.6.5         6.6.5           0.0024         3.31         0.00297         6.45         1.56 ft         6.62         204.77         8.20         6.006           0.0004         6.79         < D.
0.0024         3.31         0.00297         6.45         15.65         6.62         204.77         8.20         6.06           0.0004         6.79         < D
0.0004         6.79         < DL         2183         284         1357         < DL         48.05         < DL         ABD         PL         PL         2183         284         1357         < DL         48.05         < DL         ABD
0.0033 3.27 0.00132 9.65 2.87 5.44 7.260 5.55 38.04 9.04 0.0033 3.27 0.00132 9.65 2.147 6.54 24.81 24.22 26.82 0.0003 0.0004 6.02 - c.D. 43.72 2.87 12.04 - c.D. 59.13 - c.D. 50.000 0.0005 7.25 - c.D. 33.98 2.87 12.04 - c.D. 42.14 14.74 14.74 0.0000 0.0000 0.00003 1.818 2.20 15.91 14.43 - c.D. 42.14 14.74 14.74 0.0000 0.00003 1.20 0.00003 3.50 7.53 3.97 14.43 - c.D. 47.67 - c.D. 6.00 0.00003 0.00
0.0033         3.27         0.00132         9.65         21.47         6.54         24.81         24.22         26.82           0.0004         6.02         - DL         43.72         2.87         12.04         - DL         59.13         - DL           0.0005         4.69         0.00015         6.56         2.97         9.37         3.02         37.47         2.98           0.0007         7.25         - CL         13.91         - CL         42.14         14.74         14.74           0.0016         7.22         - CL         3.37         4.43         - CL         47.67         - CL           0.0017         1.39         0.00036         3.50         7.53         3.37         8.31         7.27           0.001         4.41         0.00036         3.50         7.53         3.97         8.31         7.27           0.001         4.41         0.00036         3.50         7.53         3.97         8.31         7.27
0.0004         6.02         < DL         43.72         2.87         12.04         < DL         59.13         < DL           0.0005         4.89         0.00015         6.56         2.97         9.37         3.02         37.47         2.98           0.0005         7.25         <0.00073
0.0005         4.69         0.00015         6.56         2.97         9.37         3.02         37.47         2.98           0.0003         7.25         0.00073         18.18         2.20         15.91         < DL
0.0003 7.95 0.00073 18.18 2.20 15.91 < DL 42.14 14.74 14.74 14.74
0.0005 7.22 < DL 33.98 2.97 14.43 < DL 47.67 < DL 0.0012 1.99 0.00036 3.50 7.53 3.97 8.31 17.15 7.27 0.0023 5.44 0.00078 5.47 14.81 10.88 120.38 13.59 15.83
0.0012 1.99 0.00036 3.50 7.53 3.97 8.31 17.15 7.27 0.0023 5.44 0.00078 5.47 14.81 10.88 120.38 13.59 15.83
0.0023 5.44 0.00078 5.47 14.81 10.88 120.38 13.59 15.83
7.50

Appendix B: Eastern Sunda arc geochronology data - zircon

	2s%	7.70	13.42	7.35	7.10	24.23	14.26	4.82	13.23	6.11	17.78	16.01	10.94	26.97	5.34	8.82	30.44	49.60	29.93	26.80	14.14	189.22	25.03	39.06	81.33	133.40	48.06	41.67	50.36	27.49	15.63	63.00	19.14	42.35	26.39	47.66	44.26	115.37	36.95	643.57	38.64	62.84	77.54	45.43	86.23	50.88
	208Pb/232Th Age (Ma)	212.04	7.71	85.74	8.10	10.04	7.86	7.54	18.24	49.96	8.42	10.63	8.18	77.7	22.77	7.92	15.79	16.08	29.19	76.16	57.76	< DL	10.09	14.80	< DL	10.36	98.13	< DL	6.82	Y DF	9.97	< DL	< DL	< DL	41.31	< DL	30.56	< DL	< DL	17.37	< DL	< DL				
	2s%	6.42	25.71	6.54	14.16	29.19	28.91	18.21	16.96	6.15	31.58	24.04	22.58	40.83	5.20	22.72	57.14	51.38	25.58	25.39	15.48	69.63	43.71	53.36	157.64	156.31	41.29	95.84	82.23	43.34	18.66	49.91	33.82	51.06	57.49	95.63	83.46	49.09	156.24	63.95	55.05	82.18	83.77	49.78	43.56	86.47
	207Pb/235U(calc) Age (Ma)	861.30	8.23	317.56	7.36	27.37	7.18	7.89	84.74	184.82	7.61	19.94	7.61	12.93	254.11	7.45	< DL	< DL	09.06	164.91	113.54	< DL	< DL	< DΓ	> DL	< DL	< DL	< DL	< DL	8.20	111.26	< DF	10.33	TO >	< DL	< DL	< DL	< DL	< DΓ	< DL	< DL	< DL	< DF	> DL	> DL	TO >
	2s%	4.14	5.83	5.77	3.11	11.51	7.12	4.00	7.53	4.25	7.51	9.54	5.37	14.81	5.04	5.11	13.25	22.54	16.48	18.42	10.29	20.20	9.87	11.83	17.26	15.46	14.28	27.10	16.11	10.96	12.61	14.51	10.33	13.23	10.34	15.93	12.82	14.64	18.91	20.72	19.90	19.74	14.76	15.68	12.35	10.26
	206Pb/238U Age (Ma)	79.51	7.76	27.94	7.65	8.36	7.59	7.89	11.52	19.59	7.37	8.18	7.36	8.09	23.35	7.53	8.74	7.68	10.30	15.76	15.36	7.60	7.44	8.46	7.18	8.14	6.79	6.94	8.10	7.93	17.39	8.12	7.41	69.2	8.37	9.65	7.89	8.76	11.08	12.22	8.36	8.56	8.21	9.31	9.17	9.83
	18%	3.85	6.71	3.68	3.55	12.11	7.13	2.41	6.61	3.05	8.89	8.01	5.47	13.49	2.67	4.41	15.22	24.80	14.97	13.40	7.07	94.61	12.51	19.53	40.67	02.99	24.03	20.83	25.18	13.74	7.81	31.50	9.57	21.18	13.19	23.83	22.13	69.75	18.47	321.79	19.32	31.42	38.77	22.72	43.11	25.44
	208Pb/232Th ratio	0.01052	0.00038	0.00424	0.00040	0.00050	0.00039	0.00037	0.00090	0.00247	0.00042	0.00052	0.00040	0.00038	0.00335	0.00039	0.00078	0.00079	0.00144	0.00376	0.00285	< DL	0.00050	0.00073	∨ DF	< DL	√ DΓ	< DL	√ DΓ	0.00051	0.00485	< DL	0.00034	√ DΓ	0.00049	< DL	< DL	< DL	0.00204	∨ DΓ	0.00151	√ DΓ	< DL	0.00086	> DL	< DL
	18%	2.07	2.91	2.88	1.55	5.75	3.56	2.00	3.77	2.13	3.75	4.77	2.68	7.40	2.52	2.55	6.62	11.27	8.24	9.21	5.14	10.10	4.94	5.91	8.63	7.73	7.14	13.55	8.06	5.48	6.30	7.26	5.16	6.61	5.17	7.96	6.41	7.32	9.45	10.36	9.92	9.87	7.38	7.84	6.17	5.13
)	206Pb/238U ratio	0.0124	0.0012	0.0043	0.0012	0.0013	0.0012	0.0012	0.0018	0.0030	0.0011	0.0013	0.0011	0.0013	0.0036	0.0012	0.0014	0.0012	0.0016	0.0024	0.0024	0.0012	0.0012	0.0013	0.0011	0.0013	0.0011	0.0011	0.0013	0.0012	0.0027	0.0013	0.0011	0.0012	0.0013	0.0015	0.0012	0.0014	0.0017	0.0019	0.0013	0.0013	0.0013	0.0014	0.0014	0.0015
	15%	3.21	12.85	3.27	7.08	14.59	14.45	9.10	8.48	3.08	15.79	12.02	11.29	20.42	2.60	11.36	28.57	25.69	12.79	12.69	7.74	34.82	21.85	26.68	78.82	78.16	20.65	47.92	41.12	21.67	9.33	24.95	16.91	25.53	28.75	47.82	41.73	24.55	78.12	31.97	27.53	41.09	41.89	24.89	21.78	43.24
	207Pb/235U (calc) ratio	1.3356	0.0081	0.3672	0.0073	0.0273	0.0071	0.0078	0.0870	0.1996	0.0075	0.0198	0.0075	0.0128	0.2844	0.0074	< DL	< DL	0.0933	0.1763	0.1183	< DL	< DL	< DL	< DL	< DL	< DL	< DL	< DL	0.0081	0.1158	< DL	0.0102	70 ×	< DL	< DL	< DL	< DL	< DL	< DL	< DL	< DL	< DL	> DL	< DL	< DL
	1s%	2.85	12.95	1.63	6.82	15.49	14.57	8.90	10.57	2.04	16.10	12.45	11.30	21.03	2.52	11.84	29.22	27.94	15.01	15.46	8.62	36.16	22.36	27.29	79.28	78.50	21.70	49.74	41.83	22.14	10.59	25.87	17.28	26.26	29.06	48.41	42.19	25.49	78.65	33.52	29.23	42.23	42.50	26.05	22.50	43.51
	207Pb/206Pb ratio	0.7853	0.0500	0.6090	0.0446	0.1552	0.0441	0.0487	0.3475	0.5014	0.0469	0.1145	0.0480	0.0746	0.5699	0.0470	0.0400	0.0400	0.4215	0.5300	0.3652	0.0400	0.0400	0.0400	0.0400	0.0400	0.0400	0.0400	0.0400	0.0477	0.3120	0.0400	0.0645	0.0400	0.0400	0.0400	0.0400	0.0400	0.0400	0.0400	0.0400	0.0400	0.0400	0.0400	0.0400	0.0400
	1s%	2.01	2.88	2.52	1.53	5.78	3.10	1.68	3.63	2.11	3.44	4.13	2.49	5.63	2.02	2.18	6.65	11.24	11.41	15.31	4.70	10.14	4.93	5.91	8.65	7.74	7.12	13.37	8.08	4.77	5.22	7.28	4.33	6.63	5.60	7.94	6.41	7.29	9.48	10.42	10.41	13.03	7.35	7.75	6.17	5.12
	238U/206Pb ratio	80.92	837.39	229.13	841.52	781.36	853.33	818.99	561.07	328.49	877.02	787.88	876.11	804.61	277.03	860.76	740.62	839.86	632.14	403.01	422.91	840.51	862.72	760.06	903.41	796.52	945.43	917.04	800.13	810.15	372.03	798.01	868.50	841.25	767.55	664.05	818.11	728.51	585.20	535.21	768.45	753.44	777.83	691.07	702.65	660.44
	2s%	87.41	6.05	12.13		13.50		4.14	16.87	8.18	7.74	10.33	5.54	15.37	12.86	5.29			34.75	56.63	16.94									11.27	17.85		10.72													
	206Pb/238U Age	5.58	7.72	8.08		7.21		7.86	7.13	8.32	7.37	7.47	7.35	7.80	7.90	7.52			5.41	6.12	9.17									7.91	11.55		7.23													
	2s%	87.4	6.1	12.1	3.1	13.5	7.1	4.1	16.9	8.2	7.7	10.3	5.5	15.4	12.9	5.3	13.2	22.5	34.8	9.99	16.9	20.2	6.6	11.8	17.3	15.5	14.3	27.1	16.1	11.3	17.9	14.5	10.7	13.2	10.3	15.9	12.8	14.6	18.9	20.7	19.9	19.7	14.8	15.7	12.3	10.3
	Pref_Age_Ma	5.6	7.7	8.1	7.6	7.2	7.6	7.9	7.1	8.3	7.4	7.5	7.3	7.8	7.9	7.5	8.7	7.7	5.4	6.1	9.2	7.6	7.4	8.5	7.2	8.1	6.8	6.9	8.1	7.9	11.6	8.1	7.2	7.7	8.4	9.6	7.9	8.8	11.1	12.2	8.4	8.6	8.2	9.3	9.2	9.8
	Analysis ID	LB005_zirc12	LB005_zirc13	LB005_zirc14	LB005_zirc15	LB005_zirc16	LB005_zirc17	LB005_zirc18	LB005_zirc2	LB005_zirc3	LB005_zirc4	LB005_zirc5	LB005_zirc6	LB005_zirc7	LB005_zirc8	LB005_zirc9	LB015_zirc1	LB015_zirc2	LB015_zirc3	LB015_zirc4	LB015_zirc5	LB015_zirc6	LB015_zirc7	LB026_zirc1	LB026_zirc10	LB026_zirc11	LB026_zirc12	LB026_zirc13	LB026_zirc14	LB026_zirc15	LB026_zirc16	LB026_zirc17	LB026_zirc18	LB026_zirc19	LB026_zirc2	LB026_zirc20	LB026_zirc21	LB026_zirc22	LB026_zirc23	LB026_zirc24	LB026_zirc25	LB026_zirc3	LB026_zirc4	LB026_zirc5	LB026_zirc6	LB026_zirc7

Appendix B: Eastern Sunda arc geochronology data - zircon

	Analysis ID	2s% 21	206Pb/238U Age	2s%	238U/206Pb ratio	18%	207 Pb/206Pb ratio	18%	207Pb/235U (calc) ratio	1s%	206Pb/238U ratio	1s%	208Pb/232Th ratio	18%	206Pb/238U Age (Ma)	2s%	207Pb/235U(calc) Age (Ma)	25%	208Pb/232Th Age (Ma)	2s%
1		22.6			06.609	11.45	0.0400	40.55	> DL	39.02	0.0017	11.32	0.00187	19.83	10.89	22.65	PDF >	78.03	37.94	39.66
1		11.7			824.68	5.82	0.0400	27.84	< DL	27.26	0.0012	5.83	0.00070	17.82	7.85	11.66	< DL	54.53	14.15	35.63
		13.2			1068.39	90.9	0.0400	31.84	> DL	31.38	0.0010	6.58	0.00039	13.48	6.12	13.17	< DL	62.76	7.94	26.95
		14.5			1203.42	7.28	0.0400	32.90	< DL	32.13	0.0008	7.24	0.00037	19.33	5.33	14.48	< DL	64.26	7.45	38.66
		4.2	5.51	4.24	1148.51	2.04	0.0618	8.00	0.0073	7.84	0.0009	2.02	0.00031	5.14	5.62	4.05	7.39	15.68	6.20	10.28
1		6.1	5.56	6.05	1054.92	2.57	0.1229	9.52	0.0157	9.89	0.0010	2.54	0.00048	7.02	6.15	5.08	15.80	19.77	9.67	14.05
		11.7			1055.48	6.21	0.0400	29.69	< DL	29.17	0.0010	5.85	0.00031	15.02	6.25	11.69	< DL	58.34	6.22	30.05
		9.9			1064.80	3.03	0.0376	15.40	0.0049	15.17	0.0009	3.31	0.00029	14.67	60.9	6.62	4.95	30.34	5.94	29.34
		5.9	4.99	5.92	1226.91	2.55	0.0893	8.63	0.0100	8.60	0.0008	2.77	0.00055	6.53	5.28	5.54	10.10	17.20	11.23	13.06
4         4         4         4         4         5         6		20.2			931.93	10.14	0.0400	28.93	< DL	27.15	0.0011	10.09	0.00079	22.47	7.00	20.18	< DL	54.30	16.06	44.93
		5.0	5.83	5.00	1097.17	2.11	0.0523	99.6	0.0063	8.82	0.0009	2.42	0.00031	5.70	5.88	4.83	6.42	17.64	6.26	11.40
		15.7			779.79	7.23	0.0400	27.95	< DL	27.11	0.0013	7.86	0.00075	15.25	8.27	15.72	< DL	54.21	15.16	30.50
		6.1	5.46	90.9	1098.33	2.52	0.1065	7.90	0.0134	7.87	0.0009	2.80	0.00042	7.19	5.91	5.60	13.55	15.75	8.46	14.38
		33.1	6.04	33.09	649.84	7.76	0.3592	17.49	0.0763	12.91	0.0016	10.00	0.00263	11.94	10.00	19.99	74.70	25.82	53.21	23.87
		8.7	5.77	8.68	708.08	2.46	0.3399	4.60	0.0636	5.32	0.0014	2.90	0.00092	6.71	9.18	5.79	62.63	10.65	18.55	13.42
		7.2			1221.25	3.60	0.0316	20.09	0.0035	19.91	0.0008	3.59	0.00050	11.54	5.31	7.18	3.56	39.83	10.15	23.08
		25.7	6.51	25.66	583.88	6.97	0.3704	12.83	0.0852	11.20	0.0017	7.74	0.00213	10.60	11.03	15.49	83.00	22.39	43.15	21.19
51         31         41<		15.0			1136.64	7.52	0.0400	25.59	< DL	24.51	0.0009	7.51	< DF	24.82	5.69	15.02	< DL	49.02	√ DF	49.64
		13.7			1082.47	6.82	0.0400	24.76	> DL	23.85	0.0009	6.83	∨ DF	30.06	5.93	13.67	< DΓ	47.69	∨ DΓ	60.13
		13.6			1134.75	6.79	0.0400	35.94	< DL	35.38	0.0009	6.80	0.00049	14.51	5.67	13.61	< DL	70.76	9.88	29.02
		9.6			971.04	4.32	0.0400	19.79	< DL	19.36	0.0010	4.32	0:00030	14.42	6.62	8.63	< DL	38.73	5.98	28.84
11   11   11   11   11   11   11   1		14.8	7.10	14.76	854.72	5.20	0.0889	18.48	0.0143	17.86	0.0012	7.05	0.00056	17.03	7.51	14.09	14.40	35.73	11.38	34.06
5         16         17         17         24         0 0400         27.30         0 0000         8 20         0 0000         1 45         6 40         6 4		11.6	6.15	11.60	1059.94	5.50	0.0527	24.55	0.0070	24.04	0.0010	5.56	0.00051	17.62	6.20	11.12	7.11	48.08	10.33	35.24
61         151         60         150         60         63         0.004         247         0.001         7.14         0.005         130         0.004 <td></td> <td>16.5</td> <td></td> <td></td> <td>1122.23</td> <td>7.24</td> <td>0.0400</td> <td>28.13</td> <td>&lt; DL</td> <td>27.30</td> <td>6000.0</td> <td>8.23</td> <td>0.00045</td> <td>14.95</td> <td>5.79</td> <td>16.46</td> <td>&lt; DL</td> <td>54.59</td> <td>9.14</td> <td>29.91</td>		16.5			1122.23	7.24	0.0400	28.13	< DL	27.30	6000.0	8.23	0.00045	14.95	5.79	16.46	< DL	54.59	9.14	29.91
57         84         567         839         13380         440         0447         1844         0.0059         18.0         0.0018         61.3         66.0         65.0         67.0         4.0         0.0018         61.0         67.0         4.0         0.0018         18.0         0.0029         8.1         0.0029         8.1         0.0029         8.1         0.0029         8.1         0.0029         8.1         0.0029         8.1         0.0029         8.1         0.0029         8.1         0.0029         8.1         9.0         1.1         9.0         1.0         0.0029         8.2         0.0029         1.1         0.0         9.0         9.0         0.0         9.0         0.0         1.0         0.0         0.0         1.0         0.0         1.0         0.0         0.0         1.0         0.0         1.0         0.0         1.0         1.0         0.0         1.0         0.0		15.1	90.9	15.06	1018.80	6.38	0.0685	25.58	0.0091	24.77	0.0010	7.18	0.00059	13.07	6.25	14.35	9.18	49.55	12.00	26.13
6         16         6         6         16         6         16		8.4	2.67	8.38	1133.60	4.04	0.0487	18.44	0.0059	18.05	0.0009	4.03	0.00018	16.33	5.69	8.06	5.99	36.10	3.71	32.67
6         10.2         5.5         10.2         9.60         11.7         0.00058         8.51         0.00058         8.51         0.00048         8.51         0.00058         8.51         0.00018         8.51         0.00058         8.51         0.00019         1.70         0.00058         2.21 T         0.00059         2.22 T         0.00059         2.24 T <t< td=""><td></td><td>18.9</td><td>5.52</td><td>18.91</td><td>445.08</td><td>3.50</td><td>0.5373</td><td>4.70</td><td>0.1635</td><td>4.79</td><td>0.0023</td><td>3.75</td><td>0.00223</td><td>4.92</td><td>14.57</td><td>7.50</td><td>153.76</td><td>9.58</td><td>45.13</td><td>9.83</td></t<>		18.9	5.52	18.91	445.08	3.50	0.5373	4.70	0.1635	4.79	0.0023	3.75	0.00223	4.92	14.57	7.50	153.76	9.58	45.13	9.83
5         4.5         5.5         4.5         6.6         5.2         0.0010         1.70         0.0003         7.02         6.63         3.41         7.35         1.83         1.83         1.83         1.83         1.83         1.83         1.83         1.83         1.83         1.83         1.83         0.045         2.5         0.0004         1.86         0.0002         1.44         0.0003         1.44<		10.2	5.56	10.21	950.51	4.10	0.1882	10.27	0.0273	9.51	0.0011	4.13	0.00058	8.51	6.78	8.27	27.35	19.02	11.76	17.02
57         11.1         11.1         4.7         0.0454         2.2 k3         0.0055         5.4         0.00022         14.47         5.70         11.09         5.57         44.35         6.53         6.53         0.00022         14.47         5.00         1.09         5.59         1.09         5.59         7.19         6.53         4.12         6.53         9.12         6.53         7.19         6.53         9.12         6.53         9.12         6.54         9.12         6.54         9.29         6.54         9.00         9.12         6.50         9.12         6.53         9.12         6.53         9.12         9.54         9.54         9.54         9.54         9.54         9.54         9.00         9.54         9.00	3	4.5	5.53	4.54	974.02	1.51	0.1769	5.52	0.0238	5.69	0.0010	1.70	0.00093	7.02	6.63	3.41	23.91	11.39	18.87	14.03
59         8.2         5.64         8.20         108347         3.89         0.0664         17.76         0.0009         3.84         0.0001         9.00         5.63         7.89         6.51         34.12         6.89           5.6         7.4         5.62         7.44         116.182         3.49         0.0469         14.79         0.0009         3.89         0.00022         9.12         5.63         7.19         6.59         9.18         6.54         9.12         5.63         7.19         6.59         9.00 <td></td> <td>11.1</td> <td></td> <td></td> <td>1131.56</td> <td>4.78</td> <td>0.0454</td> <td>22.63</td> <td>0.0055</td> <td>22.17</td> <td>0.0009</td> <td>5.55</td> <td>0.00032</td> <td>14.47</td> <td>5.70</td> <td>11.09</td> <td>5.57</td> <td>44.35</td> <td>6.53</td> <td>28.94</td>		11.1			1131.56	4.78	0.0454	22.63	0.0055	22.17	0.0009	5.55	0.00032	14.47	5.70	11.09	5.57	44.35	6.53	28.94
56         7.4         562         7.4         151.82         3.49         0.0065         15.94         0.00032         3.60         0.00032         3.71         5.62         7.14         151.82         3.49         0.0045         3.60         0.00032         10.33         5.64         7.94         5.62         3.18         6.56           5.4         8.2         5.44         8.5         1.83         0.0040         26.42         0.001         6.80         0.00033         16.33         5.64         7.94         5.63         0.007         6.80         0.00034         1.63         6.70         1.61         0.003         1.62         0.007         6.80         0.00034         1.62         7.94         7.94         0.00         6.80         0.00034         1.62         0.0003         1.62         0.0003         1.62         0.0003         1.62         0.0003         1.62         0.0003         1.62         0.0003         1.62         0.0003         1.62         0.0003         1.62         0.0003         1.62         0.0003         1.62         0.0003         1.62         0.0003         1.62         0.0003         1.62         0.0003         1.62         0.0003         1.62         0.0003         1.62<		8.2	5.95	8.20	1083.47	3.89	0.0506	17.43	0.0064	17.06	0.0009	3.94	0.00031	9.00	5.98	7.89	6.51	34.12	6.38	18.00
54         8.2         5.44         8.15         1183.14         3.30         0.0489         14.71         0.0003         3.97         0.00032         10.33         5.46         7.94         5.83         29.50         6.52           6.7         16.2         1.31,97         8.09         0.0400         26.42         < C		7.4	5.62	7.44	1151.82	3.49	0.0462	16.25	0.0055	15.94	0.0009	3.60	0.00032	9.12	5.63	7.19	5.62	31.88	99.9	18.23
57         162         113.97         809         0.0400         26.42         < CD		8.2	5.44	8.15	1183.14	3.30	0.0489	14.91	0.0058	14.75	0.0008	3.97	0.00032	10.33	5.46	7.94	5.83	29.50	6.52	20.66
6.3 13.2		16.2			1131.97	8.09	0.0400	26.42	< DL	25.20	6000.0	8.09	0.00073	18.22	5.70	16.19	< DL	50.39	14.79	36.45
67 137		13.2			1023.45	6.25	0.0400	26.93	< DL	26.23	0.0010	09.9	0.00053	15.59	6.29	13.21	< DL	52.47	10.79	31.17
62 113		13.7			965.31	6.84	0.0400	28.61	< DL	27.82	0.0010	6.83	0.00055	19.33	6.70	13.66	< DL	55.63	11.11	38.66
49 30.1 4.8 30.1 4.8 30.1 4.8 4.8 30.1 4.8 4.8 30.1 4.8 4.8 30.1 4.8 4.8 30.1 4.8 4.8 30.1 4.8 4.8 4.8 4.8 4.8 4.8 4.8 4.8 4.8 4.8		11.3			1034.07	5.62	0.0400	134.71	< DL	134.62	0.0010	5.63	0.00031	15.57	6.23	11.25	< DL	269.23	6.22	31.15
6.9 384 6.89 39.36 280.70 463 0.5989 748 0.2918 6.54 0.0035 5.01 0.00846 5.73 22.84 10.02 2.894 13.08 170.75 170.7		30.1			1377.39	15.16	0.0400	130.58	< DL	129.74	0.0008	15.03	< DL	24.75	4.88	30.05	< DL	259.47	< DF	49.50
44 166 4.39 1664 1143.11 641 0.2189 15.01 0.0262 13.65 0.0001 6.39 0.0004 16.75 562 12.78 562 12.78 562 27.29 8.92 8.92 8.92 8.92 8.92 8.92 8.92 8		39.4	6.89	39.36	280.70	4.63	0.5989	7.48	0.2918	6.54	0.0035	5.01	0.00846	5.73	22.84	10.02	259.94	13.08	170.75	11.47
65 94 666 80.31 271.20 906 0.6524 11.05 0.3371 8.01 0.0003 8.58 0.01294 6.18 6.18 17.17 294.95 16.03 280.51 5.04 5.04 5.05 12.3   28 12.3   28 12.6   29 4 5 6 80.31   20 5 6 7 6 7 6 7 6 7 6 7 6 7 6 7 6 7 6 7 6		16.6	4.39	16.64	1143.11	6.41	0.2189	15.01	0.0262	13.65	0.0009	6.39	0.00044	16.75	5.62	12.78	26.29	27.29	8.92	33.51
57 80.3 5.66 80.31 271.20 9.06 0.6624 11.05 0.3371 8.01 0.0038 8.58 0.01294 6.18 24.18 17.17 294.95 16.03 260.51 260.51 25 25 12.34 2.05 16.03 260.51 25 12.34 2.05 16.03 260.51 25 12.34 2.05 16.03 260.51 25 12.34 2.05 16.03 2.05 12.6 2.15 20.0040 21.57 20.77 0.0009 6.30 0.00023 20.50 5.88 12.60 20.14 41.53 4.61 2.77 20.0041 13.55 0.00332 18.43 10.78 27.10 142.43 33.12 67.23 3		9.4			985.60	6.12	0.0400	32.37	< DL	32.06	0.0010	4.69	0:00030	17.51	6.53	9.39	< DL	64.12	6.04	35.02
5.8 12.3 1106.87 6.18 0.0400 20.72 < DL 19.83 0.0009 6.17 0.00042 18.16 5.85 12.34 < DL 39.67 8.46 3 5.9 12.6 5.86 14.107 5.96.40 13.25 0.0402 21.57 < DL 20.77 0.0009 6.30 0.00023 20.50 5.88 12.60 < DL 41.53 4.61 4 2.7 141.1 2.66 141.07 5.96.40 13.25 0.06412 21.03 0.1506 16.56 0.0017 13.55 0.00332 18.43 10.78 27.10 142.43 33.12 67.23 3		80.3	5.66	80.31	271.20	90.6	0.6524	11.05	0.3371	8.01	0.0038	8.58	0.01294	6.18	24.18	17.17	294.95	16.03	260.51	12.36
5.9 12.6 11.0 2.66 141.07 598.40 13.25 0.0400 21.57 < DL 20.77 0.0009 6.30 0.00023 20.50 5.88 12.60 < DL 41.53 4.61 4 2.7 4.11.1 2.66 141.07 598.40 13.25 0.6412 21.03 0.1506 16.56 0.0017 13.55 0.000332 18.43 10.78 27.10 142.43 33.12 67.23 3		12.3			1106.87	6.18	0.0400	20.72	< DL	19.83	0.0009	6.17	0.00042	18.16	5.85	12.34	< DL	39.67	8.46	36.32
2.7 141.1 2.66 141.07 598-40 13.25 0.6412 21.03 0.1506 16.56 0.0017 13.55 0.00332 18.43 10.78 27.10 142.43 33.12 67.23		12.6			1114.93	6.35	0.0400	21.57	< DL	20.77	6000.0	6.30	0.00023	20.50	5.88	12.60	< DL	41.53	4.61	41.00
		41.1	2.66	141.07	596.40	13.25	0.6412	21.03	0.1506	16.56	0.0017	13.55	0.00332	18.43	10.78	27.10	142.43	33.12	67.23	36.86

Appendix B: Eastern Sunda arc geochronology data - zircon

	2s%	27.87	40.98	37.62	50.53	26.35	43.13	66.64	36.74	71.59	31.59	35.77	30.59	49.29	21.93	35.46	23.90	80.27	57.55	36.97	19.84	35.37	39.07	14.14	11.20	19.45	802.77	51.81	62.90	7.98	38.02	39.36	35.84	60.32	41.64	26.85	13.20	113.30	33.43	30.77	36.33	30.41	23.77	45.66	20.21	65.25
	208Pb/232Th Age (Ma)	8.01	∨ DΓ	13.96	< DL	9.12	5.90	< DL	6.34	< DL	12.01	7.68	15.27	10.20	22.47	13.07	7.13	< DL	< DL	5.23	170.34	6.97	5.64	30.94	316.47	7.73	< DL	< DL	70 ×	644.53	6.53	11.65	13.57	< DL	12.42	15.09	38.93	< DL	9.83	22.57	26.57	11.54	80.9	5.87	8.81	√ DF
	. 7s%	52.27	87.70	99.93	128.70	40.26	83.16	56.95	48.68	40.09	64.47	46.97	27.09	85.72	23.94	44.88	45.75	152.93	78.54	46.92	24.66	47.91	58.80	15.68	11.84	45.07	54.13	79.33	179.99	9.28	40.85	65.14	25.57	120.08	89.09	98.28	11.22	47.82	49.34	61.36	41.90	72.55	35.20	61.72	32.50	132.29
	207Pb/235U(calc) Age (Ma)	V DL	< DL	< DL	< DL	< DL	< DL	< DL	< DL	< DL	< DL	< DL	26.76	< DL	31.93	∨ DΓ	< DL	< DΓ	< DL	∨ DΓ	144.82	< DL	< DL	108.28	471.78	< DL	~ DΓ	< DL	> DL	597.47	< DF	< DΓ	< DL	∨ DL	> DL	¬D >	105.49	∨ DL	11.17	< DL	< DL	< DL	5.84	8.49	10.25	< DL
	2s%	12.93	17.47	16.97	16.13	9.08	13.17	17.15	10.41	16.04	11.13	12.19	11.03	17.82	10.64	13.34	9.08	25.66	22.88	11.16	16.75	10.54	11.75	9.94	9.03	77.7	12.86	18.69	14.05	6.82	10.41	13.18	16.41	16.34	19.88	13.39	10.13	15.23	15.74	18.76	19.78	12.37	8.83	14.51	98.6	13.21
	206Pb/238U Age (Ma)	5.71	4.77	6.04	5.87	6.21	6.17	7.95	7.05	5.85	6.54	6.29	99.2	7.13	7.62	69.9	5.89	7.17	6.02	6.10	15.13	6.23	6.23	12.57	41.26	6.17	6.13	6.49	6.47	56.91	6.20	7.35	5.87	6.82	6.22	5.95	12.16	6.21	7.08	7.25	7.25	6.84	6.01	7.30	2.06	90.9
	18%	13.93	20.49	18.81	25.26	13.18	21.57	33.32	18.37	35.80	15.80	17.88	15.29	24.64	10.96	17.73	11.95	40.13	28.78	18.48	9.92	17.68	19.54	7.07	5.60	9.73	401.39	25.90	31.45	3.99	19.01	19.68	17.92	30.16	20.82	13.43	09.9	56.65	16.72	15.38	18.17	15.20	11.88	22.83	10.10	32.63
<b>i</b>	208Pb/232Th ratio	0.00040	< DL	0.00069	< DL	0.00045	0.00029	< DL	0.00031	< DL	0.00059	0.00038	0.00075	0.00050	0.00111	0.00064	0.00035	∨ DF	< DL	0.00026	0.00844	0.00034	0.00028	0.00153	0.01574	0.00038	> DL	< DL	< DL	0.03231	0.00032	0.00057	0.00067	< DL	0.00061	0.00074	0.00192	< DL	0.00048	0.00111	0.00131	0.00057	0.00030	0.00029	0.00043	√ DL
	1s%	6.46	8.74	8.48	8.07	4.54	6.59	8.57	5.20	8.02	5.57	6.10	5.52	8.91	5.32	6.67	4.54	12.83	11.44	5.58	8.38	5.27	5.87	4.97	4.51	3.88	6.43	9.35	7.02	3.41	5.20	6.59	8.21	8.17	9.94	6.70	5.07	7.62	7.87	9.38	9.89	6.19	4.42	7.25	4.93	09.9
)	206Pb/238U ratio	0.0009	0.0007	0.0009	0.0009	0.0010	0.0010	0.0012	0.0011	0.0009	0.0010	0.0010	0.0012	0.0011	0.0012	0.0010	0.0009	0.0011	0.0009	0.0009	0.0024	0.0010	0.0010	0.0020	0.0064	0.0010	0.0010	0.0010	0.0010	0.0089	0.0010	0.0011	0.0009	0.0011	0.0010	0.0009	0.0019	0.0010	0.0011	0.0011	0.0011	0.0011	0.0009	0.0011	0.0011	0.0009
	18%	26.14	43.85	49.96	64.35	20.13	41.58	28.46	24.34	20.04	32.23	23.48	13.55	42.86	11.97	22.44	22.88	76.47	39.27	23.46	12.33	23.95	29.40	7.84	5.92	22.54	27.06	39.67	90.00	4.64	20.43	32.57	27.78	60.04	30.34	49.14	5.61	23.91	24.67	30.68	20.95	36.28	17.60	30.86	16.25	66.15
	207Pb/235U (calc) ratio	< DL	> DL	< DL	< DL	< DL	< DL	< DL	< DL	< DL	< DL	< DL	0.0267	< DL	0.0319	^ <u>Р</u>	< DL	< PL	< DL	< DL	0.1533	< DL	> DL	0.1125	0.5914	< DL	< DL	< DL	N DF	0.8011	N DF	< DL	∨ DF	∨ DΓ	< DL	< DL	0.1095	< PL	0.0111	< DL	< DL	< DL	0.0058	0.0084	0.0101	√ DF
	18%	26.81	44.64	50.62	64.84	20.59	42.07	29.68	24.85	21.54	32.67	24.22	14.55	43.72	13.02	23.36	23.28	77.51	40.82	24.07	14.72	24.48	29.94	8.52	06.90	22.74	27.78	40.67	90.26	5.46	21.03	33.20	28.93	60.54	31.78	49.53	60.9	24.97	25.54	31.75	23.02	36.77	17.95	31.67	16.62	66.43
	207Pb/206Pb ratio	0.0400	0.0400	0.0400	0.0400	0.0400	0.0400	0.0400	0.0400	0.0400	0.0400	0.0400	0.1639	0.0400	0.1959	0.0400	0.0400	0.0400	0.0400	0.0400	0.4784	0.0400	0.0400	0.4229	0.6755	0.0400	0.0400	0.0400	0.0400	0.6611	0.0400	0.0400	0.0400	0.0400	0.0400	0.0400	0.4309	0.0400	0.0745	0.0400	0.0400	0.0400	0.0453	0.0543	0.0686	0.0400
,	18%	6.44	8.69	8.47	7.93	4.55	09.9	8.83	5.21	8.00	5.56	7.20	8.12	8.73	5.34	09.9	5.51	12.65	11.50	5.60	8.74	5.61	5.84	4.68	4.17	3.88	57.65	9.32	7.03	3.28	8.85	6.70	8.14	8.23	10.63	6.68	4.66	7.62	6.71	8.32	9.81	8.70	3.80			6.58
	238U/206Pb ratio	1124.21	1336.18	1065.24	1084.07	1044.59	1048.24	833.45	917.70	1095.87	986.35	1011.18	843.85	894.55	842.68	958.78	1099.04	880.27	1068.45	1064.34	424.81	1038.46	1038.40	514.17	155.85	1043.78	1054.50	986.45	995.98	112.73	1039.91	873.42	1093.93	958.40	1051.39	1079.52	531.41	1039.07	883.60	895.45	874.02	946.12	1075.45	878.68	917.19	1053.52
	2s%												13.12		13.31						42.84			20.19	58.77					42.00							16.60		16.50					15.15	10.29	
	206Pb/238U Age												6.52		6.18						6.86			6.58	8.50					12.83							6.24		6.83					7.22	98'9	
	2s%	12.9	17.5	17.0	16.1	9.1	13.2	17.1	10.4	16.0	1.1	12.2	13.1	17.8	13.3	13.3	9.1	25.7	22.9	11.2	42.8	10.5	11.7	20.2	58.8	7.8	12.9	18.7	14.0	42.0	10.4	13.2	16.4	16.3	19.9	13.4	16.6	15.2	16.5	18.8	19.8	12.4	8.8	15.2	10.3	13.2
	Pref_Age_Ma	5.7	4.8	0.9	5.9	6.2	6.2	8.0	7.1	5.8	6.5	6.3	6.5	7.1	6.2	6.7	5.9	7.2	0.9	6.1	6.9	6.2	6.2	9.9	8.5	6.2	6.1	6.5	6.5	12.8	6.2	7.3	5.9	6.8	6.2	5.9	6.2	6.2	6.8	7.2	7.3	6.8	6.0	7.2	6.9	6.1
	Analysis ID	NAF-02_zirc19	NAF-02_zirc2	NAF-02_zirc20	NAF-02_zirc21	NAF-02_zirc22	NAF-02_zirc23	NAF-02_zirc24	NAF-02_zirc25	NAF-02_zirc26	NAF-02_zirc27	NAF-02_zirc28	NAF-02_zirc29	NAF-02_zirc3	NAF-02_zirc30	NAF-02_zirc31	NAF-02_zirc32	NAF-02_zirc33	NAF-02_zirc34	NAF-02_zirc35	NAF-02_zirc36	NAF-02_zirc37	02_zirc38b	NAF-02_zirc38t	NAF-02_zirc39	NAF-02_zirc4	NAF-02_zirc40	NAF-02_zirc41	NAF-02_zirc42	NAF-02_zirc43	NAF-02_zirc44	NAF-02_zirc45	NAF-02_zirc5	NAF-02_zirc6	NAF-02_zirc7	NAF-02_zirc8	NAF-02_zirc9	NAF-03_zirc1	NAF-03_zirc10	NAF-03_zirc11	NAF-03_zirc12	NAF-03_zirc13	NAF-03_zirc14	NAF-03_zirc15	NAF-03_zirc16	NAF-03_zirc17

Appendix B: Eastern Sunda arc geochronology data - zircon

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Analysis ID	Pref_Age_Ma	2s%	206Pb/238U Age	2s%	238U/206Pb ratio	b 1s%	6 207Pb/206Pb ratio	1s%	207Pb/235U (calc) ratio	18%	206Pb/238U ratio	18%	208Pb/232Th ratio	18%	206Pb/238U Age (Ma)	2s%	207Pb/235U(calc) Age (Ma)	. 5s%	208Pb/232Th Age (Ma)	2s%
NAF-03_zirc18	0.9	14.4			1089.52	2 7.20		24.72	> DL	23.70	0.0009	7.18	< DL	25.62	5.99	14.37	> DL	47.39	70 ×	51.24
NAF-03_zirc19	5.8	30.8	5.82	30.78	3 568.70	7.07	7 0.4264		0.1023	10.87	0.0017	7.48	0.00240	10.88	11.22	14.96	98.88	21.73	48.66	21.77
NAF-03_zirc2	6.7	20.9			974.22	2 10.33	3 0.0400	32.41	< DL	30.72	0.0010	10.44	< DL	29.15	99.9	20.89	< DL	61.43	< DL	58.30
NAF-03_zirc20	7.5	12.9	7.53	12.86	3 792.88	8 5.76		18.09	0.0184	17.34	0.0013	5.86	0.00069	11.59	8.16	11.71	18.53	34.69	13.91	23.18
NAF-03_zirc21	6.1	11.9			1060.13	3 5.96		36.03	< DL	35.56	0.0009	5.93	< DL	20.66	6.08	11.86	< DL	71.13	< DL	41.33
NAF-03_zirc22	7.0	10.0			924.25	5 4.99		22.36	< DL	21.85	0.0011	4.99	< DL	26.53	96'9	96.6	< DL	43.69	< DL	53.05
NAF-03_zirc23	9.9	8.3	6.58	8.33	3 978.05	5 3.76	6 0.0466	17.61	0.0065	17.26	0.0010	4.04	0.00035	11.12	6.58	8.07	6:59	34.53	7.17	22.23
NAF-03_zirc24	6.4	9.1			1012.96	6 4.61	1 0.0400	20.08	< DL	19.62	0.0010	4.54	0.00031	16.45	6.38	9.07	< DL	39.23	6.32	32.90
NAF-03_zirc25	6.4	9.0			1004.38	8 4.21	:1 0.0412	20.85	0.0057	20.47	0.0010	4.50	0.00035	10.97	6.43	8.99	5.79	40.95	7.06	21.94
NAF-03_zirc26	6.9	15.8			931.32	2 13.00	0.0400	46.92	< DL	46.32	0.0011	7.88	0.00034	24.92	6.93	15.76	< DL	92.65	6.94	49.85
NAF-03_zirc27	5.8	14.3			1117.21	1 7.14	4 0.0400	39.82	< DL	39.20	0.0009	7.14	< DF	26.81	5.78	14.29	< DL	78.40	< DL	53.61
NAF-03_zirc28	0.9	12.2			1079.24	4 8.32	0.0400	22.55	< DL	21.75	0.0009	6.12	0.00036	20.09	5.96	12.24	< DL	43.50	7.25	40.18
NAF-03_zirc29	5.8	13.0			1099.30	0 12.43	.3 0.0400	33.33	< DL	32.72	0.0009	6.49	0.00051	18.15	5.77	12.98	< DL	65.45	10.34	36.29
NAF-03_zirc3	6.2	10.1			1045.60	0 7.02	0.0400	24.68	< DL	24.20	0.0010	5.04	0.00026	17.24	6.17	10.07	< DL	48.40	5.35	34.48
NAF-03_zirc30	0.9	11.0			1082.07	7 5.51	0.0400	23.36	< DL	22.75	0.0009	5.51	0.00053	16.17	5.95	11.03	< DL	45.49	10.78	32.34
NAF-03_zirc31	6.4	8.3			1010.49	9 4.16	6 0.0400	21.96	< DL	21.61	0.0010	4.16	0.00019	18.07	6.38	8.32	< DL	43.22	3.84	36.15
NAF-03_zirc32	6.3	17.0			1029.21	1 8.50	0.0400	39.67	< DL	38.82	0.0010	8.49	< DL	405.54	6.27	16.98	< DL	77.65	< DL	811.08
NAF-03_zirc33	6.1	12.9			1053.60	0 6.69	9 0.0400	35.93	< DL	35.38	0.0010	6.46	0.00068	14.94	6.12	12.91	< DL	70.75	13.75	29.88
NAF-03_zirc34	6.2	12.7	6.24	12.67	, 898.36	6 4.91	1 0.1480	13.42	0.0226	12.59	0.0011	5.64	0.00085	11.29	7.17	11.28	22.74	25.17	17.18	22.59
NAF-03_zirc35	6.8	48.9	6.79	48.87	7 234.51	1 4.35		7.29	0.3764	5.46	0.0042	4.33	0.01364	6.17	27.28	8.66	324.38	10.91	274.64	12.34
NAF-03_zirc4	6.4	16.4	6.45	16.42	581.63	3 4.14	4 0.3769	8.03	0.0890	8.06	0.0017	4.82	0.00219	6.51	11.08	9.64	86.61	16.12	44.29	13.01
NAF-03_zirc5	5.2	30.9	5.24	30.92	2 730.80	0 7.89	9 0.3742	16.50	0.0707	13.23	0.0014	7.72	0.00263	11.18	8.96	15.44	66.39	26.46	53.17	22.36
NAF-03_zirc6	6.7	11.2			951.72	2 9.02	0.0400	20.31	70 >	19.58	0.0010	5.59	√ DΓ	26.61	6.75	11.19	√ DΓ	39.17	< DL	53.21
NAF-03_zirc7	6.3	15.7			1027.39	9 7.23	3 0.0400	27.72	< DL	26.81	0.0010	7.83	0.00063	18.19	6.33	15.67	< DL	53.62	12.82	36.38
NAF-03_zirc8	5.6	10.7			1150.98	8 5.36	6 0.0400	23.10	< DL	22.61	0.0009	5.34	0.00028	13.94	5.62	10.68	< DL	45.21	5.65	27.88
NAF-03_zirc9	6.9				919.25			29.46	< DL	28.48	0.0011	7.96	0.00029	21.38	6.85	15.93	< DL	96.99	5.81	42.76
SLG-01_zirc1	13.4	7.0			479.30	0 2.97	7 0.0461	13.98	0.0132	13.73	0.0021	3.52	0.00074	11.26	13.39	7.04	13.27	27.45	15.02	22.51
SLG-01_zirc10	14.4		14.43	6.33	3 402.51			7.33	0.0433	7.03	0.0025	2.88	0.00164	6.24	16.06	5.76	43.05	14.06	33.13	12.48
SLG-01_zirc11	13.0	7.2	13.04		346.18	8 2.38	8 0.2814	4.91	0.1109	4.73	0.0029	2.53	0.00329	5.58	18.55	5.06	106.80	9.46	66.64	11.16
SLG-01_zirc12	19.6		19.63					11.91	0.1413	10.89	0.0041	5.79	0.00520	10.46	26.61	11.57	134.19	21.78	105.09	20.93
SLG-01_zirc13	14.2		14.18					7.16	0.0304	6.97	0.0023	2.25	0.00126	90.9	15.11	4.50	30.43	13.94	25.59	12.13
SLG-01_zirc14	15.0		15.05	8.53				19.19	0.0149	18.90	0.0023	4.12	0.00085	14.45	15.05	8.23	15.04	37.80	17.20	28.89
SLG-01_zirc15	13.8	4.3			467.88			8.28	0.0134	8.20	0.0021	2.14	0.00061	6.43	13.79	4.28	13.52	16.40	12.40	12.85
SLG-01_zirc16	14.2	7.8			454.84			18.68	0.0131	18.33	0.0022	3.88	0.00113	10.79	14.16	7.75	13.19	36.66	22.91	21.57
SLG-01_zirc17	13.6	7.2	13.62	7.21	474.20	0 3.24	4 0.0486	14.74	0.0140	14.59	0.0021	3.49	0.00087	10.34	13.66	6.98	14.11	29.17	17.56	20.68
SLG-01_zirc18	13.7	6.9			469.76			15.23	0.0130	15.08	0.0021	3.43	0.00069	11.16	13.72	98.9	13.10	30.17	14.02	22.32
SLG-01_zirc19	13.1	9.6			490.33	3 2.80	0.0421	13.59	0.0117	13.52	0.0020	2.80	0.00063	10.03	13.14	5.61	11.83	27.04	12.76	20.05
SLG-01_zirc2	14.3	8.0	14.28	8.00	440.71			12.31	0.0203	11.99	0.0023	3.86	0.00106	8.60	14.64	7.72	20.37	23.99	21.47	17.21
SLG-01_zirc20	14.1	6.5			458.36	9.09		17.64	0.0090	17.54	0.0022	3.23	0.00093	9.95	14.10	6.46	9.12	35.08	18.79	19.91
SLG-01_zirc21	13.4	9.0			482.59	9 4.25		20.53	0.0127	20.22	0.0021	4.49	0.00063	15.49	13.37	8.98	12.77	40.45	12.72	30.99
SLG-01_zirc22	14.0	_	13.95	13.77	406.79	9 5.99		17.12	0.0459	16.22	0.0024	6.02	0.00173	15.31	15.76	12.03	45.52	32.45	35.14	30.62
SLG-01_zirc23	13.8		13.75	5.89	9 467.05		8 0.0474	11.77	0.0139	11.74	0.0021	2.86	0.00064	10.00	13.77	5.72	13.99	23.49	12.96	20.01
SLG-01_zirc24	13.5				482.57		3 0.0444	14.45	0.0126	14.20	0.0021	3.57	0.00063	11.49	13.47	7.14	12.76	28.39	12.72	22.97
SLG-01_zirc25	13.5		13.49	5.40				10.91	0.0136	10.74	0.0021	2.62	0.00068	8.64	13.51	5.24	13.73	21.47	13.69	17.28
SLG-01_zirc26	14.1	2.7			457.81	1 2.74	.4 0.0417	13.32	0.0125	13.26	0.0022	2.85	0.00079	9.58	14.09	5.71	12.59	26.52	15.95	19.16

## Appendix B: Eastern Sunda arc geochronology data - zircon

Appendix B: Eastern Sunda arc geochronology data - zircon

	_Ma 2s%	_	Age 2s	2s%	ratio	1s%	ratio	1S%	(calc) ratio	15%	ratio	02.50	ratio	18%	Age (Ma)	22.0	Age (Ma)	-0.0	Age (Ma)	72.70
	2.9 10.4	4			2267.91	5.19	0.0400	30.91	< DL	30.58	0.0004	5.19	0.00019	11.64	2.85	10.38	¬D >	61.15	3.84	23.29
	3.0 10.7	7			2147.21	6.87	0.0400	71.41	< DL	71.22	0.0005	5.34	0.00021	14.72	3.00	10.67	¬DГ >	142.44	4.32	29.44
	4.2 32.4	4	4.23 32.	32.45	1086.02	11.12	0.2964	22.16	0.0396	19.57	0.0010	10.71	0.00120	19.01	6.20	21.43	39.47	39.14	24.40	38.02
	3.2 13.7	7		13.67	1098.20	3.33	0.4012	6.16	0.0506	5.37	0.0009	3.65	0.00136	6.03	5.81	7.31	50.11	10.73	27.59	12.06
	2.9 11.5	2		11.53	2105.36	5.13	0.0821	18.42	0.0054	17.75	0.0005	5.40	0.00023	13.34	3.08	10.81	5.44	35.51	4.56	26.68
	2.7 14.7	7	2.71 14.	14.71	1900.06	5.53	0.2039	13.32	0.0147	12.21	0.0005	5.96	0.00055	10.17	3.39	11.92	14.82	24.42	11.08	20.33
	4.1 51.8	80	4.15 51.	51.76	86.54	6.05	0.7961	0.75	1.2655	6.20	0.0115	5.99	0.02159	6.75	73.92	11.97	830.39	12.39	432.95	13.50
	3.0 35.4	4	3.00 35	35.41	185.78	3.84	0.7696	0.99	0.5595	3.81	0.0054	3.23	0.00705	5.09	34.67	6.46	451.18	7.62	142.35	10.19
	2.9 14.9	6			2240.13	11.04	0.0400	34.31	< DL	33.58	0.0005	7.45	∨ DF	24.91	2.91	14.91	¬D¬	67.16	< DF	49.82
	2.8 9.5	2	2.80 9.	9.50	2253.97	4.57	0.0729	16.83	0.0044	16.42	0.0004	4.47	0.00019	16.99	2.89	8.94	4.48	32.83	3.82	33.99
	3.0 18.1	<del>-</del>	2.98 18	18.13	1888.29	7.28	0.1487	18.27	0.0109	17.19	0.0005	8.16	0.00053	15.72	3.42	16.32	10.99	34.39	10.81	31.45
	2.9 14.7	7	2.94 14.	14.74	1401.38	4.31	0.3318	8.37	0.0320	7.62	0.0007	4.85	0.00074	7.65	4.61	9.69	32.02	15.24	14.96	15.30
	2.7 50.3	8	2.67 50.	50.29	244.64	6.31	0.7570	2.28	0.4195	7.29	0.0041	6.61	0.00962	2.67	26.30	13.21	355.73	14.57	194.16	11.34
	2.8 9.1	<b>←</b>			2324.47	4.53	0.0400	27.34	< DL	27.00	0.0004	4.54	0.00013	17.08	2.77	9.08	¬D¬	53.99	2.65	34.16
	2.9 18.3	3	2.91 18	18.33	1323.80	5.70	0.3602	9.48	0.0380	11.41	0.0007	5.63	0.00072	90.6	4.83	11.27	37.90	22.82	14.53	18.12
	3.2 12.5	2			2007.63	6.33	0.0400	29.89	< DL	29.33	0.0005	6.26	0.00022	15.25	3.22	12.51	¬DГ >	28.67	4.49	30.51
	2.6 19.8		2.63 19.	19.80	2096.57	7.79	0.1511	21.39	0.0097	20.06	0.0005	8.70	0.00041	16.17	3.04	17.40	9.81	40.12	8.36	32.34
		8			2654.40	8.90	0.0400	25.32	< DL	23.84	0.0004	8.89	< DL	28.91	2.44	17.77	> DL	47.68	< DL	57.81
	3.4 17.6	9	3.36 17.	17.62	781.92	3.57	0.5168	4.87	0.0913	4.55	0.0013	3.47	0.00146	3.73	8.30	6.94	88.72	9.11	29.64	7.47
UG012184 z1	4.4 11.5		4.43 11.	11.54	1221.79	4.53	0.1758	11.66	0.0195	10.77	0.0008	4.86	0.00061	9.66	5.30	9.71	19.64	21.53	12.34	19.32
	4.4 18.3			18.27	936.43	4.60	0.3357	11.72	0.0486	7.91	0.0011	4.59	0.00117	7.41	6.91	9.18	48.18	15.81	23.67	14.83
UG012184 z11	27.0 92.6			92.64	9.64	2.89	0.8461	1.46	12.0966	2.56	0.1036	3.08	0.36240	2.84	635.42	6.16	2611.93	5.12	6268.36	5.68
UG012184 z12	21.6 8.6		21.58 8.	8.57	300.05	3.62	0.0469	17.07	0.0213	16.70	0.0034	4.17	0.00173	11.68	21.59	8.34	21.36	33.39	35.05	23.37
UG012184 z13	6.9 14.7	7			940.81	13.37	0.0400	24.78	< DL	23.69	0.0011	7.36	0.00083	17.81	6.86	14.71	▼ DF	47.37	16.74	35.61
UG012184 z14	4.0 19.6	9		19.57	1195.15	7.08	0.2520	15.69	0.0285	14.03	0.0008	7.05	0.00102	15.15	5.37	14.11	28.50	28.07	20.59	30.30
UG012184 z15	4.3 10.2	2	4.32 10.	10.18	1441.57	4.77	0.0791	17.48	0.0075	16.84	0.0007	4.75	0.00027	14.49	4.50	9.51	7.56	33.68	5.38	28.97
UG012184 z16	4.3 7.9	6	4.27 7.	7.90	1503.08	3.78	0.0462	17.94	0.0042	17.55	0.0007	3.81	0.00027	10.39	4.27	7.61	4.26	35.11	5.56	20.77
		8	4.48 18.	18.84	1019.34	6.47	0.2741	13.86	0.0363	12.29	0.0010	6.54	0.00122	11.23	6.30	13.09	36.19	24.59	24.79	22.47
UG012184 z18	4.7 17.5	2			1382.04	8.78	0.0400	45.81	< DL	44.97	0.0007	8.75	< DL	23.55	4.71	17.49	V DΓ	89.95	< DL	47.10
UG012184 z19		8			1478.18	6.11	0.0400	23.28	< DL	22.72	0.0007	5.14	0.00022	16.86	4.35	10.28	Y DF	45.43	4.45	33.73
		0			1974.72	16.32	0.0400	99.09	∨ DL	47.90	0.0005	16.52	0.00055	29.59	3.39	33.04	¬DГ >	95.81	11.23	59.18
		0			1329.46	6.48	0.0400	22.25	¬ D ¬	21.30	0.0008	6.48	0.00044	18.89	4.86	12.96	<b>~</b> DΓ	42.59	8.93	37.78
UG012184 z21	4.5 24.7	7			1477.60	18.53	0.0400	37.85	< DΓ	35.79	0.0007	12.33	∨ DΓ	46.78	4.48	24.65	< DL	71.58	< DΓ	93.56
		8	4.77 51.	51.29	444.74	11.52	0.5749	11.19	0.1746	8.94	0.0022	6.88	0.00655	9.70	14.41	13.76	163.40	17.88	132.30	19.40
		8			1758.01	8.30	0.0400	24.27	< DΓ	22.79	9000.0	8.41	\ Р	186.15	3.61	16.81	< DΓ	45.57	\ Р	372.29
UG012184 z24	6.0 56.3	8	5.97 56.	56.27	257.57	3.83	0.6484	7.95	0.3535	7.16	0.0039	5.64	0.01083	6.13	24.96	11.29	307.34	14.32	218.31	12.26
	5.0 17.0	0			1305.10	8.53	0.0400	22.31	<dl></dl>	20.63	0.0008	8.51	< DF	22.81	4.95	17.03	¬DГ >	41.27	√ DF	45.62
	22.4 3.3	3			287.54	1.62	0.0462	7.62	0.0222	7.54	0.0035	1.65	0.00114	4.66	22.44	3.30	22.33	15.09	23.06	9.32
UG012184 z27	5.1 19.5	2			1275.84	9.68	0.0400	32.66	< DL	31.18	0.0008	9.76	0.00065	22.79	5.09	19.51		62.36	13.23	45.59
UG012184 z28	4.6 19.1	_	4.56 19.	19.13	987.12	14.12	0.2816	13.79	0.0394	12.20	0.0010	6.49	0.00160	12.07	6.50	12.99	39.23	24.39	32.49	24.14
UG012184 z29		4			1647.42	5.74	0.0400	22.53	< DL	21.80	0.0006	5.70	0.00019	19.68	3.93	11.40	¬DГ >	43.59	3.90	39.36
UG012184 z3	6.1 24.2	2			1092.17	12.28	0.0400	105.07	< DL	104.37	0.0009	12.09	< DF	221.15	6.11	24.18	▼ DF	208.75	< DF	442.29
UG012184 z30	5.4 20.2	2			1199.35	10.15	0.0400	24.67	< DL	22.52	0.0008	10.10	0.00167	17.53	5.36	20.20	< DL	45.03	33.82	35.07
JG012184 z31	4.8 18.5	2			1355.54	9.30	0.0400	33.98	< DL	32.71	0.0008	9.23	0.00061	19.06	4.84	18.47	V DF	65.42	12.27	38.11

Appendix B: Eastern Sunda arc geochronology data - zircon

		206Pb/238U		23811/206Pb	.	207Pb/206Pb		207Pb/235U	-	206Pb/238U	-	208Pb/232Th		206Pb/2381J		207Pb/235U(calc)	-	208Pb/232Th	;
Analysis ID Pref_Age_Ma	la 2s%	Age	2s%	ratio	1s%	ratio	1s%	(calc) ratio	1s%	ratio	18%	ratio	18%	Age (Ma)	. 58%	Age (Ma)	2s%	Age (Ma)	2s%
UG012184 z33 3.5	.9 13.7			1622.01	6.83	0.0400	43.07	∨ DΓ	42.53	0.0006	98.9	√ DF	29.24	3.94	13.71	> DL	85.06	¬ DΓ	58.47
UG012184 z34 5.4	.4 22.3			1207.19	11.16	0.0400	54.35	√ DF	53.21	0.0008	11.14	√ DF	30.46	5.36	22.27	< DL	106.42	√ DF	60.91
UG012184 z35 6.3	.3 16.4	6.34	16.44	614.11	4.45	0.3595	8.67	0.0797	7.46	0.0016	4.91	0.00403	6.63	10.51	9.83	77.85	14.92	81.53	13.25
JG012184 z36 5.1	.1 26.0			1256.06	12.73	0.0400	63.84	< DF	62.53	0.0008	12.99	0.00125	21.61	5.09	25.98	< DL	125.06	25.30	43.21
UG012184 z37 4.8	.8 22.7			1332.28	16.26	0.0400	39.40	∨ DΓ	37.74	0.0008	11.36	0.00050	27.12	4.84	22.73	< DL	75.47	10.17	54.24
UG012184 z38 4.6	.6 15.8			1419.55	7.92	0.0400	26.56	√ DF	25.37	0.0007	7.91	\ О	33.06	4.55	15.82	< DL	50.74	√ DΓ	66.12
UG012184 z39 4.5	.5 36.2	4.54	36.24	488.63	4.72	0.5646	8.27	0.1559	7.82	0.0020	5.23	0.00397	5.91	13.20	10.47	147.13	15.64	80.34	11.82
UG012184 z4 4.9	.9 14.3			1304.81	7.17	0.0400	21.08	√ DF	19.84	0.0008	7.16	ч Р	20.42	4.95	14.32	< DL	39.69	√ DF	40.84
UG012184 z40 3.0	.0 440.5	3.04	440.48	37.44	1.73	0.8327	3.53	3.0664	2.82	0.0268	2.06	0.13189	2.84	170.70	4.13	1424.33	5.63	2511.23	5.69
UG012184 z41 5.0	.0 19.1			1324.72	9.70	0.0400	27.24	< DL	25.53	0.0008	9.54	< DL	27.06	4.98	19.08	< DL	51.05	< DL	54.12
UG012184 z42 3.1	.1 59.0	3.09	58.96	650.05	10.41	0.5908	11.82	0.1250	9.39	0.0015	7.23	0.00534	9.53	9.95	14.45	119.57	18.78	108.03	19.06
UG012184 z5 4.6	9.6			1385.91	4.81	0.0400	20.35	< DL	19.78	0.0007	4.81	0.00028	9.99	4.64	9.62	< DL	39.57	5.61	19.97
UG012184 z6 8.0	.0 26.7			804.29	13.26	0.0400	50.36	< DL	48.58	0.0012	13.34	0.00289	20.11	7.98	26.69	< DL	97.16	58.49	40.22
UG012184 z7 4.2	.2 24.1			1575.67	12.21	0.0400	62.69	< DL	68.74	0.0007	12.05	0.00105	21.50	4.21	24.10	< DL	137.48	21.23	43.01
UG012184 z8 4.3	.3 22.3	4.35	22.25	910.38	6.38	0.3503	12.59	0.0519	10.85	0.0011	6.39	0.00229	11.28	70.7	12.78	51.39	21.69	46.37	22.55
UG012184 z9 4.4	.4 12.0			1465.93	6.02	0.0400	37.99	< DL	37.52	0.0007	00.9	\ Р	20.69	4.41	11.99	< DL	75.04	< DL	41.37
UG012186 z1 5.0	.0 113.5	4.98	113.52	158.04	4.85	0.7408	7.34	0.6480	6.53	0.0063	5.30	0.02165	6.50	40.42	10.59	507.24	13.07	434.18	13.00
JG012186 z10 4.7	.7 14.8			1385.42	7.42	0.0400	46.12	∨ DΓ	45.53	0.0007	7.41	0.00087	17.14	4.68	14.81	< DL	91.06	17.63	34.28
UG012186 z11 4.1	.1 12.1			1580.29	5.62	0.0400	25.36	∨ DΓ	24.74	0.0006	6.03	0.00030	15.14	4.11	12.05	< DL	49.48	6.13	30.28
UG012186 z12 76.4	.4 35.9	76.44	35.85	7.32	2.41	0.8216	1.14	15.0815	2.60	0.1377	2.56	0.40885	2.94	831.48	5.12	2820.40	5.19	6947.95	5.89
UG012186 z13				0.19	1.59	0.8364	0.52	605.9430	2.00	5.3064	1.50	24.20300	3.15	11871.48	2.99	6507.02	4.00	65410.11	6.29
UG012186 z14 4.9	.9 18.4			1286.95	9.14	0.0400	28.96	∨ DL	27.45	0.0008	9.22	0.00093	21.22	4.93	18.44	< DL	54.90	18.84	42.43
UG012186 z15 3.7	.7 22.7			1760.67	12.12	0.0400	43.25	< DL	41.74	0.0006	11.36	< DL	48.84	3.67	22.73	< DL	83.47	< DL	29.76
UG012186 z16 23.1	.1 109.6	23.11	109.58	10.67	3.42	0.8445	1.69	10.7040	3.97	0.0948	3.80	0.35689	5.36	583.58	7.60	2497.77	7.93	6186.26	10.73
JG012186 z17 7.2		7.24	71.65	174.89	11.65	0.6839	7.83	0.5393	6.22	0.0058	7.00	0.02047	6.64	37.11	14.00	437.95	12.44	410.73	13.28
UG012186 z18 5.0	.0 15.5	5.03	15.55	1023.63	6.10	0.2020	14.68	0.0267	13.40	0.0010	6.21	0.00084	16.31	6.27	12.41	26.78	26.81	17.05	32.62
JG012186 z19 4.2	.2 63.8	4.19	63.82	312.20	4.91	0.6776	7.31	0.2990	6.55	0.0032	5.35	0.01491	6.98	20.78	10.70	265.58	13.10	300.06	13.97
UG012186 z2 4.4	.4 17.5			1481.34	8.77	0.0400	27.76	< DL	26.35	0.0007	8.77	\ Р	28.85	4.35	17.54	< DL	52.69	< DL	57.70
JG012186 z20 8.5	.5 34.1	8.47	34.07	151.23	2.82	0.6806	3.69	0.6055	3.84	0.0066	3.30	0.01544	6.42	42.40	6.61	480.73	7.68	310.48	12.84
UG012186 z21 4.8	.8 11.3			1354.41	5.66	0.0400	23.23	< DF	22.54	0.0007	5.66	^ DГ	27.34	4.76	11.32	< DL	45.08	√ DL	54.68
UG012186 z3 23.2	.2 75.8	23.20	75.77	13.67	7.55	0.8257	1.43	8.1059	69.9	0.0727	6.73	0.27568	6.11	452.65	13.45	2242.90	13.38	4935.28	12.21
JG012186 z4 4.2	.2 12.8			1524.96	6.38	0.0400	26.90	< DL	26.13	0.0007	6.42	\ Р	24.14	4.23	12.84	< DL	52.26	< DL	48.28
JG012186 z5 4.5	.5 28.4	4.49	28.42	992.72	9.22	0.3007	19.19	0.0415	16.84	0.0010	9.25	0.00107	19.77	6.62	18.50	41.25	33.67	21.77	39.54
JG012186 z6 4.4	.4 8.9			1491.35	4.46	0.0400	23.09	√ DF	22.67	0.0007	4.45	0.00024	12.90	4.36	8.90	< DL	45.34	4.95	25.79
UG012186 z7 4.3	.3 132.0	4.35	132.00	74.67	2.19	0.8012	3.07	1.4567	2.57	0.0134	2.51	0.03432	3.56	86.03	5.03	912.63	5.14	683.91	7.12
JG012186 z8 4.7	.7 12.5			1377.91	6.13	0.0400	31.06	√ DF	30.45	0.0007	6.25	0.00039	17.24	4.68	12.50	< DL	60.91	7.92	34.48
UG012186 z9 10.6	.6 61.8	10.63	61.84	50.49	6.88	0.7784	2.27	2.1685	5.84	0.0201	5.95	0.04902	6.01	128.15	11.89	1170.99	11.68	970.09	12.01
UG012190 z1 4.4	.4 27.6			1448.89	13.78	0.0400	944.29	< DF	944.19	0.0007	13.82	, Р	39.44	4.43	27.65	< DL	1888.38	√ DL	78.87
UG012190 z10 8.9	.9 48.1	8.93	48.05	147.63	3.17	0.6762	5.58	0.6372	4.86	0.0068	3.47	0.01407	4.65	43.48	6.95	500.57	9.73	283.12	9.29
UG012190 z11 4.5	.5 13.4			1435.92	6.68	0.0400	125.11	< DF	124.93	0.0007	6.70	\ Р	46.78	4.47	13.40	< DL	249.86	< DL	93.56
JG012190 z12 7.5	.5 27.7	7.51	27.65	394.80	21.08	0.4752	9.59	0.1638	7.92	0.0025	5.47	0.00607	7.54	16.40	10.95	154.03	15.84	122.68	15.09
UG012190 z13 4.2	.2 19.0			1554.87	9.57	0.0400	33.55	∨ DΓ	32.18	0.0006	9.50	, Р	26.05	4.17	18.99	< DL	64.36	∨ DL	52.10
UG012190 z14 5.9	.9 19.0			1099.18	9.01	0.0400	29.81	∨ DL	28.78	0.0009	9.51	0.00075	16.25	5.87	19.02	< DL	57.56	15.23	32.50
UG012190 z15 4.8	.8 18.7			1332.70	9.35	0.0400	40.94	< DL	39.87	0.0008	9.35	< DL	37.84	4.84	18.71	< DL	79.74	< DΓ	75.68
UG012190 z16 3.7	.7 13.6			1748.14	6.77	0.0400	34.37	< DL	33.70	0.0006	6.78	< DL	35.16	3.68	13.55	< DL	67.41	< DL	70.33

Appendix B: Eastern Sunda arc geochronology data - zircon

2s%	40.36	57.10	79.03	21.17	288.53	39.66	8.36	48.89	37.92	56.44	77.43	48.34	46.43	33.12	40.70	439.30	17.53	17.92	44.40	120.41	45.01	45.20	49.25	76.18	25.23	7.17	52.12	9.55	8.02	8.51	64.02	49.29	43.70	28.64	64.63	159.87	38.94	72.16	30.70	41.30	42.50	48.96	57.70	55.40	7.33
208Pb/232Th Age (Ma)	9.83	< DL	< DL	147.05	< DL	8.16	134.26	< DL	8.22	< DL	< DL	< DL	11.83	5.86	< DL	< DL	5.23	74.68	< DL	84.24	15008.44	< DL	747.94	2905.61	5770.83	< DL	88.36	√ DF	65.38	< DF	< DL	34.55	< DL	33.05	8.32	4.00	< DL	< DL	< DL	8273.27					
2s%	42.28	70.79	117.98	22.07	45.61	42.31	7.10	77.79	70.68	63.02	41.06	88.02	57.37	44.33	42.92	47.54	44.14	20.78	29.67	51.85	60.50	40.07	45.36	65.87	20.09	5.21	113.91	9.25	5.98	5.70	56.78	76.01	69.75	30.66	84.31	56.19	162.27	69.24	34.28	41.73	60.97	51.37	65.93	63.45	4.86
207Pb/235U(calc) Age (Ma)	< DF	< DL	< DF	415.75	< DΓ	< DL	224.05	^ DF	< DL	< DF	< DL	< DL	< DF	< DF	< DL	^ DF	^ DF	64.24	^ DF	< DL	^ DF	< DF	< DF	< DL	149.04	3426.27	< DΓ	863.06	2006.40	2334.71	¬DF	^DF	√ DF	89.00	V DL	< DΓ	< DL	< DL	35.72	< DΓ	< DL	< DΓ	< DΓ	< DL	2556.81
2s%	15.58	12.89	18.37	19.71	19.93	12.39	5.60	12.27	11.50	18.59	10.97	13.06	16.73	13.29	12.16	15.17	17.43	16.24	16.80	15.08	11.19	13.31	17.94	19.21	15.88	4.99	19.95	6.80	5.65	4.53	17.82	39.12	23.43	19.23	32.88	21.46	24.73	17.63	20.85	14.86	14.30	14.59	23.95	18.11	3.97
206Pb/238U Age (Ma)	4.54	4.68	4.88	36.56	4.74	4.41	18.66	3.74	5.06	4.03	4.36	3.92	5.40	4.34	4.45	4.54	4.64	76.7	4.35	4.60	4.35	5.96	4.07	4.16	11.99	1393.90	4.39	86.04	347.39	494.42	3.59	9.92	4.16	11.04	3.42	4.67	6.02	5.14	7.11	4.26	4.04	4.26	3.61	3.81	621.10
1s%	20.18	28.55	39.51	10.58	144.26	19.83	4.18	24.44	18.96	28.22	38.72	24.17	23.22	16.56	20.35	219.65	8.77	8.96	22.20	60.21	22.50	22.60	24.63	38.09	12.62	3.58	26.06	4.77	4.01	4.25	32.01	24.64	21.85	14.32	32.31	79.94	19.47	36.08	15.35	20.65	21.25	24.48	28.85	27.70	3.66
208Pb/232Th ratio	0.00048	< DL	< DL	0.00728	< DF	0.00040	0.00665	< DL	0.00041	< DL	< DL	< DL	0.00058	0.00029	< DL	< DL	0.00026	0.00369	< DL	0.00416	1.09684	< DL	0.03759	0.15413	0.32936	< DF	0.00437	< DF	0.00323	∨ DΓ	< DL	0.00171	∨ DL	0.00163	0.00041	0.00020	< DL	< DL	∨ DL	0.50404					
18%	7.79	6.45	9.18	9.86	96.6	6.19	2.80	6.13	5.75	9.30	5.49	6.53	8.37	6.64	80.9	7.58	8.72	8.12	8.40	7.54	5.59	99.9	8.97	9.60	7.94	2.49	9.98	3.40	2.82	2.27	8.91	19.56	11.72	9.62	16.44	10.73	12.37	8.81	10.43	7.43	7.15	7.29	11.98	9.05	1.98
206Pb/238U ratio	0.0007	0.0007	0.0008	0.0057	0.0007	0.0007	0.0029	0.0006	0.0008	0.0006	0.0007	0.0006	0.0008	0.0007	0.0007	0.0007	0.0007	0.0012	0.0007	0.0007	0.0007	0.0009	0.0006	0.0006	0.0019	0.2414	0.0007	0.0134	0.0554	0.0797	0.0006	0.0015	0.0006	0.0017	0.0005	0.0007	0.0009	0.0008	0.0011	0.0007	0.0006	0.0007	0.0006	0.0006	0.1011
18%	21.14	35.39	58.99	11.04	22.81	21.15	3.55	38.89	35.34	31.51	20.53	44.01	28.68	22.17	21.46	23.77	22.07	10.39	29.83	25.92	30.25	20.04	22.68	32.93	10.04	2.61	96.99	4.63	2.99	2.85	28.39	38.00	34.87	15.33	42.16	28.10	81.13	34.62	17.14	20.87	30.49	25.69	32.97	31.73	2.43
207Pb/235U (calc) ratio	< DL	< DL	< DL	0.5060	< DL	< DL	0.2469	< DL	< DL	< DL	< DL	^ Р	< DL	< DL	< DL	< DL	< DL	0.0653	< DL	^ Р	0.1581	28.2056	< DL	1.3396	6.2138	8.9676	V DF	< DL	\ DF	0.0916	√ DΓ	< DL	∨ DΓ	∨ DΓ	0.0358	< DL	∨ DΓ	< DL	< DL	∨ DΓ	11.4047				
18%	22.52	35.97	59.70	10.81	24.87	22.03	4.46	39.37	35.80	32.85	21.24	44.49	29.87	22.94	22.30	24.94	23.72	12.22	30.98	26.99	30.75	21.10	24.38	34.33	12.66	1.71	57.80	4.55	2.41	2.21	29.75	42.68	36.75	18.02	45.22	29.98	82.05	35.71	19.06	22.14	31.07	26.69	35.06	32.98	2.39
207Pb/206Pb ratio	0.0400	0.0400	0.0400	0.6184	0.0400	0.0400	0.6254	0.0400	0.0400	0.0400	0.0400	0.0400	0.0400	0.0400	0.0400	0.0400	0.0400	0.3869	0.0400	0.0400	0.0400	0.0400	0.0400	0.0400	0.6232	0.8498	0.0400	0.7294	0.8280	0.8289	0.0400	0.0400	0.0400	0.3943	0.0400	0.0400	0.0400	0.0400	0.2369	0.0400	0.0400	0.0400	0.0400	0.0400	0.8174
18%	7.86	6.45	9.16	8.51	9.93	6.18	2.80	8.18	5.77	9.35	5.52	6.52	11.40	8.58	23.05	31.77	8.77	7.08	8.41	7.49	6.10	6.70	8.96	69.6	7.94	2.92	96.6	3.08	2.72	2.19	8.96	19.43	11.66	9.44	16.48	10.53	12.40	8.80	12.54	7.45	6.93	7.31	11.95	13.86	1.66
238U/206Pb ratio	1427.87	1381.13	1309.72	173.60	1349.54	1452.08	345.97	1712.72	1271.49	1617.76	1481.07	1637.06	1197.97	1493.45	1460.34	1424.14	1382.12	806.46	1485.08	1392.18	1483.40	1094.24	1581.89	1556.43	540.36	4.18	1461.51	74.48	18.17	12.61	1816.99	650.86	1534.15	583.44	1923.54	1351.42	1081.24	1249.63	917.58	1519.12	1568.64	1523.40	1777.51	1725.00	9:90
25%				64.31			27.83											26.65							75.97	36.66		61.61	143.70	101.99				37.50					25.73						70.47
206Pb/238U Age				10.16			4.99											4.53							3.24	160.30		12.17	13.52	25.18				6.18					5.39						47.92
25%	15.6	12.9	18.4	64.3	19.9	12.4	27.8	12.3	11.5	18.6	11.0	13.1	16.7	13.3	12.2	15.2	17.4	26.7	16.8	15.1	11.2	13.3	17.9	19.2	0.92		20.0				17.8	39.1	23.4	37.5	32.9	21.5	24.7	17.6	25.7	14.9	14.3	14.6	24.0	18.1	
Pref Age Ma	4.5	4.7	4.9	10.2	4.7	4.4	5.0	3.7	5.1	4.0	4.4	3.9	5.4	4.3	4.4	4.5	4.6	4.5	4.3	4.6	4.4	0.9	4.1	4.2	3.2		4.4				3.6	6.6	4.2	6.2	3.4	4.7	0.9	5.1	5.4	4.3	4.0	4.3	3.6	3.8	
Analysis ID	UG012190 z17	UG012190 z18	UG012190 z19	UG012190 z2	UG012190 z20	UG012190 z21	UG012190 z22	UG012190 z23	UG012190 z24	UG012190 z25	UG012190 z26	UG012190 z27	UG012190 z28	UG012190 z29	UG012190 z3	UG012190 z30	UG012190 z31	UG012190 z32	UG012190 z4	UG012190 z5	UG012190 z6	UG012190 z7	UG012190 z8	UG012190 z9	UG012193 z1	UG012193 z10	UG012193 z11	UG012193 z12	UG012193 z13	UG012193 z14	UG012193 z15	UG012193 z16	UG012193 z17	UG012193 z18	UG012193 z19	UG012193 z2	UG012193 z20	UG012193 z3	UG012193 z4	UG012193 z5	UG012193 z6	UG012193 z7	UG012193 z8	UG012193 z9	UG012195 z1

Appendix B: Eastern Sunda arc geochronology data - zircon

Appendix B: Eastern Sunda arc geochronology data - zircon

Analysis ID	Pref Age Ma	28%	206Pb/238U Age	2s%	238U/206Pb	18%	207Pb/206Pb	18%	207Pb/235U (calc) ratio	18%	206Pb/238U	1s%	208Pb/232Th	18%	206Pb/238U Age (Ma)	2s%	207Pb/235U(calc) Age (Ma)	2s%	208Pb/232Th Age (Ma)	2s%
UG012196 z7	4.5	14.3			1456.08	7.15	0.0400	21.57	< DL	20.37	0.0007	7.13	0.00045	18.07	4.46	14.26	V □ V	40.75	90.6	36.14
UG012196 z8	3.8	13.8			1695.61	6.90	0.0400	38.56	< DL	37.95	0.0006	06.9	< DL	22.93	3.80	13.79	< DF	75.90	< DL	45.86
UG012196 z9	4.0	154.5	3.99	154.49	103.98	4.97	0.7885	4.85	1.0310	5.65	9600.0	5.74	0.02746	5.54	61.70	11.47	719.41	11.29	549.11	11.08
UG012197 z1	5.0	50.7	4.98	50.69	427.78	12.51	0.5772	10.92	0.1822	8.82	0.0024	6.71	0.00483	9.41	15.16	13.42	169.91	17.65	77.76	18.82
UG012197 z10	3.7	21.0			1712.62	10.69	0.0400	30.25	< DL	28.39	0.0006	10.49	< DL	139.10	3.69	20.99	< DL	56.78	√ DΓ	278.21
UG012197 z11	4.8	21.5	4.83	21.48	984.95	12.67	0.2474	15.50	0.0342	13.89	0.0010	8.53	0.00138	12.62	6.47	17.06	34.13	27.77	27.86	25.24
UG012197 z12	4.5	14.9			1445.26	6.97	0.0400	30.87	< DL	30.09	0.0007	7.43	0.00024	24.29	4.50	14.86	¬D >	60.17	4.83	48.58
UG012197 z13	4.5	21.8			1427.01	10.90	0.0400	30.37	< DL	28.39	0.0007	10.90	> DL	30.21	4.47	21.79	∨ DF	56.79	< DL	60.41
UG012197 z14	3.5	20.7			1826.91	10.22	0.0400	130.05	< DL	129.65	0.0005	10.33	< DL	27.10	3.48	20.66	< DL	259.30	√ DΓ	54.21
UG012197 z15	5.6	20.6			1157.99	18.40	0.0400	33.05	< DF	31.50	0.0009	10.28	0.00057	26.75	5.56	20.56	< DΓ	65.99	11.64	53.49
UG012197 z16	4.4	13.6			1471.00	6.80	0.0400	22.53	< DF	21.50	0.0007	6.80	< DL	35.86	4.39	13.59	< DΓ	42.99	√ DF	71.72
UG012197 z17	6.4	7.9	6.40	7.85	888.04	3.17	0.1378	9.82	0.0216	9.30	0.0011	3.41	0.00095	9.73	7.24	6.82	21.71	18.59	19.22	19.47
UG012197 z18	5.1	17.5			1275.56	8.73	0.0400	37.25	< DF	36.22	0.0008	8.73	< DL	51.62	5.06	17.47	∨ DF	72.44	√ DF	103.23
UG012197 z19	6.3	24.2			1021.13	12.27	0.0400	36.45	< DL	34.31	0.0010	12.12	< DL	31.00	6.32	24.24	< DF	68.62	< DL	62.00
UG012197 z2	10.5	39.4	10.51	39.38	335.88	19.83	0.4132	17.63	0.1669	14.91	0.0030	9.56	0.01191	12.27	19.60	19.13	156.76	29.82	239.93	24.54
UG012197 z20	5.2	17.0			1240.04	8.23	0.0400	30.41	< DL	29.27	0.0008	8.49	0.00048	26.08	5.16	16.99	< DL	58.54	9.78	52.17
UG012197 z21	4.6	11.4			1401.54	5.68	0.0400	63.21	< DL	62.96	0.0007	5.69	0.00030	17.48	4.59	11.37	< DL	125.91	6.05	34.96
UG012197 z22	5.1	23.7			1268.97	11.79	0.0400	31.86	< DL	29.60	0.0008	11.87	< DL	29.15	5.12	23.75	< DL	59.20	√ DΓ	58.30
UG012197 z23	3.9	24.4			1685.38	12.13	0.0400	29.10	< DL	26.45	0.0006	12.22	< DL	148.31	3.88	24.43	∨ DF	52.91	< DL	296.61
UG012197 z24	6.8	47.3			929.82	23.02	0.0400	41.60	< DL	34.20	0.0011	23.65	< DL	43.72	6.83	47.30	< DL	68.39	< DL	87.43
UG012197 z25	4.2	13.6			1524.68	6.77	0.0400	24.46	< DL	23.52	0.0007	6.78	0.00032	18.39	4.22	13.56	< DL	47.04	6.56	36.78
UG012197 z3	4.0	16.6			1615.36	15.97	0.0400	31.52	< DL	30.42	0.0006	8.31	0.00035	17.82	4.02	16.63	< DL	60.83	7.04	35.65
UG012197 z4	6.3	48.4	6.30	48.39	344.03	6.47	0.5740	10.62	0.2250	8.59	0.0029	6.44	0.01126	8.25	18.92	12.88	206.08	17.19	227.00	16.51
UG012197 z5	4.0	22.1			1655.23	11.16	0.0400	20.36	< DF	17.17	0.0006	11.04	< DL	82.79	3.98	22.07	70 ×	34.33	v Б	165.57
UG012197 z6	6.5	14.8			998.05	9.44	0.0400	22.62	< DF	21.43	0.0010	7.41	0.00070	18.37	6.45	14.82	¬D >	42.85	14.10	36.73
UG012197 z7	5.0	25.2			1273.31	12.43	0.0400	36.00	< DF	33.74	0.0008	12.60	0.00142	22.33	5.03	25.19	¬D >	67.47	28.79	44.66
UG012197 z8	4.4	9.2			1477.15	4.61	0.0400	20.43	√ DΓ	19.92	0.0007	4.62	0.00025	13.33	4.39	9.24	Y DF	39.84	4.98	26.65
UG012197 z9	4.6	16.4			1408.68	8.20	0.0400	70.21	< DL	69.74	0.0007	8.18	< DL	21.84	4.60	16.36	¬D >	139.47	<b>√</b> DΓ	43.67
UG012198_z1	4.9	24.9	4.90	24.91	712.04	6.02	0.4082	11.09	0.0782	9.43	0.0014	6.50	0.00144	8.94	9.04	12.99	76.41	18.86	29.12	17.88
UG012198_z10	6.9	10.7	6.89	10.69	850.59	4.41	0.1218	13.30	0.0197	12.62	0.0012	4.84	0.00049	8.66	7.61	9.68	19.77	25.25	9.83	17.32
UG012198_z11	5.7	12.9			1142.63	6.49	0.0400	22.40	< DF	21.50	0.0009	6.44	< DL	24.25	5.68	12.88	V DF	43.00	< DF	48.50
UG012198_z12	9.9	12.7			975.89	7.27	0.0400	24.70	< DF	23.92	0.0010	6.36	0.00032	14.48	6.65	12.73	V DF	47.83	6.39	28.95
UG012198_z13	6.5	15.6	6.50	15.60	729.21	5.24	0.2599	11.38	0.0489	10.21	0.0014	5.86	0.00077	8.22	8.91	11.71	48.50	20.42	15.52	16.43
UG012198_z14	6.1	13.9			1045.92	96.9	0.0400	24.87	< DL	23.93	0.0010	6.93	0.00040	11.64	6.13	13.85	¬D >	47.87	8.07	23.28
UG012198_z15	10.0	18.2			663.85	12.51	0.0400	32.34	< DL	31.14	0.0015	9.08	< DL	26.94	9.98	18.17	< DL	62.28	< DL	53.88
UG012198_z16	5.9	14.0			1097.02	6.61	0.0400	26.98	< DL	26.22	0.0009	7.02	0.00025	14.70	5.94	14.04	< DL	52.44	5.13	29.41
UG012198_z17	6.7	15.4			956.85	7.69	0.0400	23.85	< DL	22.61	0.0010	7.70	0.00082	14.85	6.71	15.40	< DL	45.21	16.64	29.71
UG012198_z18	6.5	11.9			980.36	5.36	0.0400	23.94	< DL	23.39	0.0010	5.95	0.00038	7.20	6.54	11.90	< DL	46.78	7.72	14.39
UG012198_z19	6.1	24.3			1056.81	12.17	0.0400	26.36	< DL	23.53	0.0010	12.13	0.00129	19.15	6.12	24.27	∨ DF	47.07	26.03	38.31
UG012198_22	8.9	29.0	6.85	29.01	647.85	9.37	0.2947	19.70	0.0628	17.34	0.0016	9.76	0.00219	14.18	66.6	19.53	61.87	34.69	44.29	28.36
UG012198_220	7.3	38.3			874.50	19.17	0.0400	94.46	< DF	92.53	0.0011	19.17	< DL	45.24	7.32	38.35	∨ DF	185.05	< DF	90.48
UG012198_221	5.5	10.5			1168.80	5.26	0.0400	22.97	< DL	22.41	0.0009	5.26	0.00033	12.02	5.52	10.53	> DF	44.82	6.62	24.03
UG012198_z22	5.5	62.3	5.50	62.34	342.34	09.9	0.6059	11.54	0.2422	8.49	0.0029	6.73	0.00577	8.16	18.80	13.46	220.18	16.99	116.55	16.31
UG012198_223	0.9	6.9			1084.73	3.46	0.0321	19.20	0.0040	18.94	0.0009	3.46	0.00028	6.52	5.96	6.92	4.10	37.88	2.60	13.04
UG012198_z24	6.2	15.9			1037.94	7.19	0.0400	28.50	V DF	27.62	0.0010	7.94	0.00022	22.76	6.23	15.88	70 >	55.24	4.55	45.53

Appendix B: Eastern Sunda arc geochronology data - zircon

Analysis ID	Pref Age Ma	2s%	206Pb/238U Age	2s%	238U/206Pb ratio	18%	207Pb/206Pb ratio	18%	207Pb/235U (calc) ratio	18%	206Pb/238U ratio	J 1s%	208Pb/232Th ratio	18%	206Pb/238U Age (Ma)	2s%	207Pb/235U(calc) Age (Ma)	2s%	208Pb/232Th Age (Ma)	2s%
UG012198_z25	6.0	11.0			1080.03	5.50	0.0400	25.31	70 >	24.75	0:000	9 5.49	0.00037	12.59	66.5	10.98	TO >	49.51	7.57	25.18
UG012198_z26	9.9	8.6	6.55	8.63	906.33	3.93	0.1087	12.26	0.0163	11.71	0.0011	1 3.91	0.00041	6.83	7.12	7.81	16.46	23.43	8.38	13.66
UG012198_z27	5.9	8.4			1087.87	4.20	0.0442	20.16	0.0055	19.77	0.0009	9 4.22	0.00028	7.84	5.90	8.43	5.59	39.54	5.77	15.69
UG012198_z28	6.9	10.4			933.91	5.05	0.0400	27.88	< DL	27.45	0.0011	1 5.19	0.00028	14.65	6.91	10.38	< DL	54.91	5.74	29.31
UG012198_z29	5.8	10.0			1106.11	5.14	0.0400	25.60	> DL	25.14	0.0009	9 5.00	0.00028	10.78	5.81	10.00	< DL	50.29	5.74	21.57
UG012198_z3	9.9	10.8			964.93	6.87	0.0400	27.25	> DL	26.76	0.0010	0 5.40	0.00032	13.29	6.63	10.80	< DL	53.52	6.52	26.59
UG012198_z30	6.9	21.8			921.12	10.91	0.0400	30.01	< DL	28.00	0.0011	1 10.91	< DL	27.39	6.93	21.82	< DL	56.01	< DL	54.78
UG012198_z31	5.6	12.6			1151.40	6.28	0.0400	54.50	< DL	54.15	0.0009	9 6.29	0.00031	11.75	5.61	12.57	< DL	108.31	6.25	23.51
UG012198_z32	6.7	11.3			952.77	5.63	0.0400	22.44	< DL	21.76	0.0010	0 5.65	0.00031	15.16	6.73	11.30	< DL	43.53	6.27	30.32
UG012198_z33	6.0	8.8			1079.81	4.07	0.0418	19.98	0.0053	19.62	0.0009	9 4.38	0.00029	10.13	5.97	8.75	5.33	39.23	5.92	20.25
UG012198_z34	0.9	12.2			1063.50	6.07	0.0400	21.19	< DL	20.35	0.0009	90.9 6	< DL	21.20	6.04	12.16	< DL	40.70	< DL	42.40
UG012198_z35	6.3	13.7			1027.18	6.93	0.0400	29.84	V DΓ	29.21	0.0010	0 6.84	0.00032	14.63	6.25	13.69	< DL	58.41	6.51	29.25
UG012198_z36	6.4	13.6			1000.93	90.9	0.0400	27.12	< DL	26.56	0.0010	0 6.82	0.00045	10.33	6.43	13.64	< DL	53.11	9.21	20.67
UG012198_z37	5.9	13.9			1090.25	12.38	0.0400	28.72	< DL	27.90	0.0009	6.97	0.00041	15.44	5.91	13.93	< DL	55.80	8.25	30.89
UG012198_z38	6.2	12.9			1040.03	6.45	0.0400	24.36	< DL	23.54	0.0010	0 6.46	0.00028	18.46	6.18	12.92	< DL	47.08	5.77	36.92
UG012198_z39	5.3	12.5			1210.69	5.84	0.0400	24.06	V DΓ	23.39	0.0008	8 6.25	0.00030	11.53	5.35	12.51	< DL	46.78	6.17	23.05
UG012198_z4	5.4	12.2			1196.97	6.56	0.0400	24.73	< DL	24.19	0.0008	01.9	0.00027	12.34	5.44	12.19	< DL	48.38	5.46	24.68
UG012198_z40	5.4	12.2			1201.42	6.11	0.0400	21.45	> DL	20.61	0.0008	11.9	0.00032	12.10	5.37	12.23	< DL	41.21	6.54	24.21
UG012198_z41	6.3	12.0			1030.34	5.75	0.0400	35.56	< DF	35.12	0.0010	0 5.98	0.00031	13.89	6.27	11.97	< DL	70.25	6.35	27.78
UG012198_z42	7.9	19.6			830.10	12.91	0.0400	31.03	< DL	29.80	0.0012	2 9.78	0.00097	14.32	7.87	19.57	> DL	59.61	19.69	28.64
UG012198_z5	7.4	24.3			857.77	11.74	0.0400	47.68	< DL	46.12	0.0011	1 12.16	> DL	34.33	7.39	24.32	< DL	92.24	70 >	99.89
UG012198_z6	5.6	11.3	5.56	11.27	1139.22	5.29	0.0630	21.69	0.0076			9 5.35	0.00022	11.87	5.68	10.70	7.69	42.15	4.39	23.75
UG012198_z7	9.9	15.7			975.76	8.12	0.0400	31.65	> DL	30.85	0.0010	0 7.85	0.00032	14.14	09.9	15.71	< DL	61.69	6.59	28.28
UG012198_z8	6.7	12.5			966.56	6.25	0.0400	25.83	V DΓ	25.11	0.0010	0 6.25	0.00034	12.38	69.9	12.49	TO >	50.22	6.92	24.77
UG012198_z9	5.9	4.41			1105.34	7.25	0.0400	30.73	> DL	29.92	0.0009	9 7.19	0.00051	12.30	5.85	14.37	< DL	59.83	10.41	24.60
BHF-01 z1	3.6	13.3	3.63	13.34	1045.74	3.36	0.3724	6.62	0.0493	5.67	0.0010	0 3.94	0.00031	5.62	6.19	7.87	48.89	11.33	6.37	11.24
BHF-01 z2	4.4	17.7			1464.06	8.76	0.0400	27.68	< DL	26.30	0.0007	7 8.83	0.00070	18.15	4.42	17.65	< DL	52.60	14.19	36.30
BHF-01 z3	4.5	17.7			1440.99	8.87	0.0400	59.32	< DL	58.68	0.0007	98.86	> DL	26.63	4.48	17.72	> DL	117.36	<dl></dl>	53.27
BHF-01 z4	4.0	14.5			1598.61	7.28	0.0400	30.22	> DL	29.39	0.0006	1.27	< DL	51.01	4.04	14.54	< DL	58.78	< DL	102.02
BHF-01 z5	4.8	20.0			1351.76	10.01	0.0400	36.41	< DL	35.05	0.0007	10.00	< DL	43.10	4.78	19.99	< DL	70.10	< DΓ	86.21
BHF-01 z6	4.8	41.0	4.82	41.03	491.37	6.16	0.5469	10.30	0.1541	8.45		0 6.15	0.00566	8.13	13.14	12.30	145.50	16.90	114.45	16.25
BHF-01 z7	3.6	17.3			1760.25	8.56	0.0400	29.69	V DΓ	28.45		99.8	> DL	29.09	3.57	17.33	N DF	26.90	√DL	58.17
BHF-01 z8	4.7	21.7			1368.09	10.89	0.0400	41.06	> DL	39.63	0.0007	10.87	> DL	38.69	4.73	21.74	< DL	79.27	70 ×	77.39
BHF-01 z9	2.5	78.2	2.49	78.15	461.08	6.03	0.6965	7.70	0.2092	6.15			0.00644	6.29	14.06	9.92	192.91	12.29	130.17	12.57
BHF-04 z1	4.8	21.3			1353.63	10.67	0.0400	27.24	< DL	25.21	0.0007		< DL	28.55	4.79	21.26	< DL	50.43	< DΓ	57.09
BHF-04 z10	3.8	12.5			1675.14	6.27	0.0400	23.36	> DL	22.57	0.0006	6.27	0.00025	20.90	3.84	12.54	< DL	45.14	5.04	41.80
BHF-04 z11	3.9	15.2			1660.25	7.59	0.0400	23.82	< DL	22.65	0.0006	7.58	< DL	31.59	3.88	15.16	< DL	45.29	< DL	63.18
BHF-04 z12	3.4	12.8			1866.65	6.32	0.0400	27.28	< DL	26.58	0.0005	5 6.40	0.00021	25.15	3.43	12.79	< DL	53.15	4.16	50.31
BHF-04 z13	4.4	20.3			1480.98	10.21	0.0400	126.05	> DL	125.65	0.0007	71.01	< DL	105.51	4.38	20.34	< DL	251.30	< DL	211.02
BHF-04 z14	3.7	17.1			1742.98	8.52	0.0400	38.06	V DΓ	37.14	0.0006	8.53	> DL	44.14	3.70	17.05	N DF	74.27	√DL	88.28
BHF-04 z15	4.4	10.8			1459.86	11.22	0.0400	32.26	< DF	31.85	0.0007	7 5.42	0.00027	17.60	4.41	10.84	< DL	63.69	5.47	35.21
BHF-04 z16	3.8	15.8			1703.07	7.89	0.0400	34.78	V DΓ	33.92		7.91	> DL	24.78	3.77	15.81	N DF	67.83	√DL	49.57
BHF-04 z17	3.1				2112.53	12.42	0.0400	57.87	> DL	56.55		12.38	> DF	25.20	3.07	24.77	< DL	113.11	¬D >	50.40
BHF-04 z18	4.0				1610.18	8.16	0.0400	34.59	< DL	33.66			TO >	30.40	4.01	16.30	70 >	67.32	^ DΓ	60.79
BHF-04 z19	3.3	12.7	3.32	12.66	1739.51	6.68	0.1276	16.51	0.0100	15.64	0.0006	6 5.58	0.00024	21.39	3.70	11.17	10.15	31.28	4.77	42.78
1																				

Appendix B: Eastern Sunda arc geochronology data - zircon

Analysis ID	Pref Age	2s%	206Pb/238U	28%	238U/206Pb	18%	207Pb/206Pb	18%	207Pb/235U	15%	206Pb/238U	18%	208Pb/232Th	18%	206Pb/238U	2s%	207Pb/235U(calc)	25%	208Pb/232Th	28%
BHF-04 z2	4.2	18.2	265		1547.52	9.16	0.0400	46.02	< DL <	45.14	0.0007	9.10	, DL	34.52	4.19	18.21	OF A DIL	90.28	< DL < DL	69.05
BHF-04 z20	3.6				1798.00	8.86	0.0400	74.44	∨ DL	73.93	0.0006	8.86	V DΓ	35.02	3.58	17.72	< DF	147.87	∨ DF	70.04
BHF-04 z21	3.3	17.6			1940.06	8.79	0.0400	38.97	< DL	38.00	0.0005	8.79	^ DF	40.79	3.32	17.58	< DL	76.01	< DL	81.58
BHF-04 z22	4.2	14.7			1547.35	7.40	0.0400	38.57	√ DF	37.90	0.0007	7.37	√ DF	32.68	4.20	14.75	< DL	75.79	∨ DF	65.37
BHF-04 z23	4.1	16.2			1570.94	8.12	0.0400	26.91	< DL	25.72	0.0006	8.12	0.00052	20.55	4.09	16.25	< DL	51.43	10.52	41.10
BHF-04 z24	3.2	22.0			2027.71	10.98	0.0400	30.76	< DL	28.79	0.0005	10.98	< DL	30.64	3.18	21.95	< DL	57.57	∨ DL	61.29
BHF-04 z25	3.9	17.5			1656.66	8.75	0.0400	36.00	<b>~</b> □ L	34.96	0.0006	8.74	< DL	59.28	3.90	17.48	< DL	69.93	< DF	118.55
BHF-04 z26	3.7	14.0			1734.26	6.98	0.0400	23.81	< DL	22.83	0.0006	6.99	< DL	28.91	3.70	13.99	< DL	45.66	∨ DL	57.82
BHF-04 z27	3.5	18.1			1857.83	9.08	0.0400	39.55	<b>~</b> DΓ	38.54	0.0005	9.07	0.00036	17.41	3.46	18.14	< DL	77.07	7.34	34.83
BHF-04 z28	3.2	17.5			2012.06	8.71	0.0400	25.51	√ DL	24.03	0.0005	8.75	0.00082	16.22	3.17	17.50	< DL	48.07	16.54	32.43
BHF-04 z29	4.6	26.5			1392.29	13.22	0.0400	107.13	V DΓ	106.33	0.0007	13.26	0.00126	25.25	4.60	26.52	< DL	212.65	25.61	50.50
BHF-04 z3	4.8	22.2			1366.00	11.09	0.0400	42.84	<b>→ D C</b>	41.42	0.0007	11.11	< DL	40.30	4.76	22.22	< DL	82.84	< DL	80.59
BHF-04 z30	4.5	17.8			1425.42	8.85	0.0400	36.22	V DΓ	35.16	0.0007	8.89	< DL	30.16	4.47	17.79	< DL	70.31	∨ DF	60.31
BHF-04 z31	4.0	18.9			1584.91	9.41	0.0400	28.46	< DL	26.91	0.0006	9.44	< DL	31.91	4.03	18.88	< DL	53.82	∨ DL	63.82
BHF-04 z32	3.8	17.6			1697.72	8.83	0.0400	24.34	< DL	22.76	0.0006	8.82	< DL	28.56	3.81	17.63	< DL	45.51	< DL	57.11
BHF-04 z33	4.4	20.9			1479.62	10.49	0.0400	45.22	< DL	44.03	0.0007	10.45	< DL	49.37	4.39	20.90	< DL	88.05	∨ DL	98.75
BHF-04 z34	3.3	17.3	3.25	17.28	1346.31	5.65	0.2978	11.76	0.0302	10.45	0.0007	5.66	0.00023	6.50	4.77	11.32	30.20	20.90	4.57	13.00
BHF-04 z35	3.9	17.3			1672.67	8.69	0.0400	27.66	< DL	26.33	0.0006	8.65	0.00051	21.70	3.88	17.30	< DL	52.66	10.40	43.40
BHF-04 z36	3.7	15.4			1748.36	7.69	0.0400	33.14	<b>~</b> DΓ	32.28	0.0006	7.69	0.00022	12.29	3.67	15.39	< DL	64.57	4.47	24.58
BHF-04 z37	4.1	15.8			1567.90	7.90	0.0400	34.67	< DL	33.80	0.0006		< DL	134.41	4.09	15.83	< DL	67.60	< DL	268.81
BHF-04 z38	1.6	79.5	1.62	79.47	1052.86	8.06	0.6262	12.99	0.0808	10.32	0.0009	8.08	0.00272	12.12	60.9	16.16	78.87	20.64	55.15	24.25
BHF-04 z39	4.1	14.8			1584.54	7.38	0.0400	30.95	< DL	30.11	0.0006	7.38	< DL	32.10	4.07	14.77	< DL	60.22	∨ DL	64.20
BHF-04 z4	3.5	19.5			1832.71	9.73	0.0400	37.65	< DL	36.41	0.0005	9.73	< DL	31.66	3.52	19.47	< DL	72.82	∨ DL	63.31
BHF-04 z40	3.6	12.6			1806.49	6.30	0.0400	24.92	< DL	24.17	0.0006	6.29	0.00042	19.03	3.58	12.58	< DL	48.35	8.58	38.07
BHF-04 z41	3.7	12.8			1766.65	6.42	0.0400	29.88	√ DL	29.24	0.0006	6.40	0.00017	25.88	3.67	12.80	< DL	58.48	3.45	51.76
BHF-04 z42	3.8	14.0	3.77	13.95	1513.60	90.9	0.1357	17.54	0.0122	16.54	0.0007	60.9	0.00040	18.64	4.25	12.18	12.34	33.08	8.01	37.28
BHF-04 z5	4.3	27.9			1543.11	14.25	0.0400	90.76	< DL	89.67	0.0007	13.93	< DL	39.52	4.29	27.87	< DL	179.34	< DL	79.04
BHF-04 z6	3.3	20.3			1980.08	10.17	0.0400	26.13	< DL	24.14	0.0005	10.15	0.00072	22.20	3.27	20.30	< DL	48.28	14.51	44.41
BHF-04 z7	3.8	17.6			1691.33	8.79	0.0400	259.09	< DL	258.95	0.0006	8.79	< DL	26.77	3.81	17.58	< DL	517.90	∨ DΓ	53.54
BHF-04 z8	3.4	14.9			1884.96	7.46	0.0400	41.46	V DΓ	40.82	0.0005		∨ DF	70.57	3.43	14.91	< DL	81.65	∨ DF	141.14
BHF-04 z9	3.4	10.7			1876.15	5.13	0.0400	24.48	< DΓ	24.00	0.0005	5.37	0.00024	16.50	3.43	10.74	∨ DL	47.99	4.83	33.01
JEM-02 z1	6.9	9.2	6.93	9.15	928.40	3.51	0.0485	15.84	0.0071	15.56	0.0011	4.47	0.00043	7.97	6.95	8.94	7.20	31.12	8.69	15.94
JEM-02 z10	7.0	7.4	7.00	7.35	909.90	3.52	0.0551	15.20	0.0083	14.90	0.0011	3.52	0.00038	11.13	7.08	7.03	8.35	29.79	7.79	22.26
JEM-02 z11	7.1	5.0	7.11	4.98	905.07	2.29	0.0479	10.43	0.0072	10.33	0.0011	2.41	0.00037	6.81	7.13	4.82	7.31	20.66	7.41	13.62
JEM-02 z12	7.1	8.5	7.13	8.46	903.92	4.03	0.0486	18.58	0.0073	18.22	0.0011	4.07	0.00038	10.65	7.16	8.14	7.42	36.44	7.61	21.31
JEM-02 z13	7.0	4.9			923.22	2.45	0.0426	11.78	0.0063	11.66	0.0011	2.44	0.00032	6.61	96.98	4.87	6.36	23.31	6.40	13.22
JEM-02 z14	6.7	2.0	6.68	5.04	959.60	2.43	0.0499	10.88	0.0071	10.75	0.0010	2.43	0.00033	7.68	6.71	4.85	7.17	21.50	6.78	15.36
JEM-02 z15	6.7	11.3	6.70	11.32	793.99	4.67	0.1862	11.70	0.0324	12.15	0.0013	4.55	0.00088	12.93	8.14	9.10	32.35	24.31	17.80	25.86
JEM-02 z16	9.9	6.4	6.62	6.44	971.10	3.10	0.0478	14.32	0.0067	14.08	0.0010		0.00036	10.56	6.64	6.20	6.79	28.17	7.33	21.13
JEM-02 z2	7.1	7.5			911.28	3.51	0.0398	17.75	0.0060	17.49	0.0011	3.74	0.00032	12.18	7.07	7.48	6.03	34.97	6.51	24.36
JEM-02 z3	7.3	12.4			882.83	6.17	0.0400	38.72	< DL	38.26	0.0011	6.18	0.00039	16.79	7.30	12.35	< DL	76.53	7.83	33.58
JEM-02 z4	6.9	6.0	6.87	5.95	935.42	2.63	0.0469	12.20	0.0068	12.04	0.0011	2.89	0.00042	7.80	6.88	5.78	6.91	24.08	8.57	15.61
JEM-02 z5	7.6	12.1			842.86	6.93	0.0400	27.03	V DΓ	26.41	0.0012	6.03	0.00042	15.52	7.63	12.05	< DL	52.82	8.57	31.05
JEM-02 z6	7.1	6.8			906.22	3.20	0.0434	15.45	0.0065	15.21	0.0011	3.40	0.00038	10.98	7.11	6.81	6.61	30.43	7.69	21.96
JEM-02 z7	7.2	9.0	7.24	8.96	851.17	3.97	0.0796	14.52	0.0127	14.07	0.0012	4.21	0.00046	10.95	7.56	8.43	12.85	28.14	9.25	21.90
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Appendix B: Eastern Sunda arc geochronology data - zircon

Analysis ID	Pref Age Ma	2s%	206Pb/238U Age	2s%	238U/206Pb ratio	1s%	207Pb/206Pb	18%	207Pb/235U (calc) ratio	18%	206Pb/238U	18%	208Pb/232Th ratio	18%	206Pb/238U Age (Ma)	2s%	207Pb/235U(calc) Age (Ma)	2s%	208Pb/232Th Age (Ma)	2s%
JEM-02 z8	6.9	8.2	6.92	8.21	932.76	3.60	0.0479	16.56	0.0070	16.26	0.0011	3.98	0.00027	15.04	6.93	7.96	7.10	32.52	5.46	30.08
JEM-02 z9	6.8	4.			951.99	1.99	0.0445	9.32	0.0064	9.27	0.0011	2.04	0.00032	5.90	6.78	4.08	6.47	18.54	6.52	11.79
PCT-01 z1	28.7	4.3	28.66	4.30	220.59	2.02	0.0604	8.29	0.0374	8.22	0.0045	2.05	0.00161	7.16	29.17	4.11	37.28	16.45	32.51	14.32
PCT-01 z10	27.4	2.9	27.41	2.93	223.65	1.32	0.0853	5.62	0.0521	5.66	0.0045	1.32	0.00187	3.90	28.82	2.64	51.60	11.33	37.78	7.79
PCT-01 z11	27.8	5.2	27.81	5.21	210.76	2.06	0.1191	6.16	0.0772	90.9	0.0048	2.40	0.00286	5.52	30.61	4.79	75.47	12.12	57.85	11.04
PCT-01 z12	27.8	3.5	27.85	3.53	218.22	1.40	0.0932	5.99	0.0583	6.11	0.0046	1.60	0.00203	4.99	29.59	3.19	57.53	12.22	41.18	9.97
PCT-01 z13	25.9	21.0	25.94	20.98	39.50	1.40	0.7194	1.41	2.5006	2.37	0.0254	1.59	0.06702	2.25	161.84	3.19	1272.20	4.74	1314.98	4.51
PCT-01 z14	28.7	5.7	28.72	5.72	205.32	2.58	0.1129	7.92	0.0751	7.69	0.0049	2.58	0.00241	7.40	31.34	5.16	73.53	15.39	48.70	14.81
PCT-01 z15	27.0	5.5	26.96	5.46	217.63	2.35	0.1180	8.44	0.0740	8.00	0.0046	2.36	0.00240	6.82	29.63	4.71	72.47	15.99	48.60	13.63
PCT-01 z16	27.0	3.6	27.04	3.61	211.41	1.58	0.1351	4.53	0.0871	4.39	0.0047	1.57	0.00300	4.77	30.44	3.15	84.80	8.78	60.62	9.54
PCT-01 z17	27.6	3.8	27.59	3.76	226.47	1.73	0.0709	7.56	0.0428	8.38	0.0044	1.75	0.00173	5.82	28.47	3.50	42.59	16.76	35.06	11.63
PCT-01 z18	29.6	4.4	29.56	4.40	205.21	2.00	0.0954	6.59	0.0636	6.51	0.0049	2.03	0.00221	60.9	31.50	4.06	62.60	13.03	44.75	12.19
PCT-01 z19	26.9	6.5	26.94	6.53	220.87	2.72	0.1045	8.83	0.0642	8.57	0.0045	3.01	0.00271	7.51	29.07	6.03	63.18	17.14	24.88	15.01
PCT-01 z2	27.5	3.2	27.48	3.17	220.60	1.37	0.0937	5.36	0.0580	5.78	0.0045	1.44	0.00193	4.06	29.22	2.87	57.26	11.56	39.02	8.12
PCT-01 z20	28.5	3.4	28.52	3.43	216.80	1.56	0.0783	5.43	0.0493	5.49	0.0046	1.62	0.00200	5.03	29.70	3.25	48.85	10.99	40.48	10.07
PCT-01 z21	28.1	4.4	28.12	4.37	224.71	2.10	0.0624	8.31	0.0379	8.24	0.0045	2.08	0.00173	6.43	28.69	4.17	37.76	16.48	35.01	12.87
PCT-01 z22	33.8	29.0	33.76	29.04	16.30	0.98	0.7919	0.54	6.6519	1.96	0.0615	1.03	0.17238	2.17	384.56	2.06	2066.25	3.92	3223.63	4.33
PCT-01 z23	27.7	2.6	27.72	2.63	219.67	1.21	0.0893	4.35	0.0554	4.79	0.0046	1.21	0.00174	3.26	29.30	2.41	54.75	9.57	35.33	6.52
PCT-01 z24	28.4	3.1	28.42	3.06	215.70	1.32	0.0842	4.81	0.0531	5.10	0.0046	1.43	0.00182	3.31	29.84	2.86	52.58	10.20	36.88	6.63
PCT-01 z25	30.1		30.05	7.70	205.05	2.99	0.0855	11.81	0.0574	12.12	0.0049	3.61	0.00284	8.73	31.60	7.23	56.69	24.24	57.44	17.46
PCT-01 z26	27.7		27.72	5.80	220.35	2.42	0.0860	8.50	0.0531	8.33	0.0045	2.73	0.00208	7.12	29.17	5.47	52.54	16.66	42.21	14.25
PCT-01 z27	28.9		28.86	3.21	207.05	4.	0.1032	4.44	0.0679	4.56	0.0048	1.48	0.00236	3.56	31.08	2.96	66.75	9.12	47.83	7.11
PCT-01 z28	28.4	3.2	28.35	3.24	220.97	1.38	0.0669	5.75	0.0413	5.80	0.0045	1.54	0.00177	4.72	29.10	3.08	41.08	11.60	35.87	9.43
PCT-01 z29	29.7	4.3	29.68	4.30	166.30	1.63	0.2312	3.57	0.1896	4.02	0.0060	1.63	0.00682	4.10	38.68	3.25	176.30	8.05	137.85	8.20
PCT-01 z3	28.3	5.2	28.32	5.16	218.01	2.19	0.0789	7.85	0.0493	7.74	0.0046	2.45	0.00227	6.25	29.52	4.90	48.86	15.48	45.98	12.50
PCT-01 z30	30.9	6.8	30.86	6.84	159.74	2.37	0.2352	5.28	0.2016	6.03	0.0063	2.71	0.00631	6.35	40.48	5.42	186.48	12.07	127.50	12.69
PCT-01 z31	47.2	56.1	47.24	90.99	8.28	5.07	0.8382	121	14.1448	5.87	0.1232	5.49	0.50779	5.51	748.69	10.98	2759.46	11.74	8323.78	11.03
PCT-01 z32	26.9		26.87	3.79	231.29	1.55	0.0730	5.85	0.0430	6.11	0.0043	1.81	0.00165	4.32	27.80	3.62	42.77	12.23	33.50	8.63
PCT-01 z33	28.7	4.4	28.69	4.38	197.41	1.70	0.1425	5.77	0.0986	6.18	0.0051	1.84	0.00358	5.54	32.63	3.68	95.45	12.36	72.40	11.09
PCT-01 z34	27.8	2.7	27.76	5.73	188.96	1.91	0.1956	5.72	0.1416	6.48	0.0053	2.26	0.00377	6.52	34.18	4.52	134.44	12.96	76.27	13.03
PCT-01 z35	33.0	7.3	33.01	7.29	178.63	2.93	0.1132	9.10	0.0867	8.79	0.0056	3.36	0.00353	7.94	36.04	6.72	84.40	17.57	71.40	15.87
PCT-01 z36	29.1	4.0	29.09	3.99	216.93	1.80	0.0625	8.73	0.0393	8.36	0.0046	1.87	0.00201	5.01	29.69	3.74	39.18	16.73	40.65	10.03
PCT-01 z37	31.8	30.9	31.79	30.92	34.86	1.95	0.7108	2.71	2.8269	3.22	0.0289	2.26	0.08213	3.26	183.86	4.53	1362.69	6.45	1599.94	6.52
PCT-01 z38	27.8	5.1	27.77	5.06	226.81	2.37	0.0682	10.13	0.0412	10.17	0.0044	2.37	0.00189	7.52	28.55	4.74	40.96	20.33	38.37	15.04
PCT-01 z4	28.0	6.1	28.02	60.9	223.74	2.69	0.0717	10.17	0.0440	9.96	0.0045	2.90	0.00222	8.70	28.93	5.79	43.76	19.93	44.91	17.41
PCT-01 z5	28.5	6.5	28.55	6.51	213.06	2.76	0.0921	10.48	0.0590	11.02	0.0047	2.99	0.00227	12.19	30.29	5.99	58.18	22.03	46.00	24.37
PCT-01 z6	28.0		27.98	3.02	222.30	1.41	0.0735	5.56	0.0451	5.69	0.0045	1.41	0.00170	4.10	28.96	2.82	44.83	11.37	34.37	8.21
PCT-01 z7	27.1	19.1	27.09	19.10	54.88	4.66	0.6593	2.12	1.6333	5.35	0.0182	4.04	0.05013	5.68	116.52	8.08	983.14	10.70	991.40	11.35
PCT-01 z8	27.8	4.4	27.80	4.36	222.20	1.85	0.0762	8.27	0.0468	8.76	0.0045	2.02	0.00174	6.93	28.88	4.04	46.43	17.53	35.25	13.85
PCT-01 z9	27.8	3.4	27.81	3.44	227.42	1.56	0.0616	6.14	0.0371	6.19	0.0044	1.65	0.00150	4.85	28.35	3.30	36.95	12.38	30.43	69.6
PCT-02 z1	27.0	4.9	27.03	4.85	237.20	2.06	0.0523	8.90	0.0301	8.84	0.0042	2.36	0.00144	4.79	27.22	4.71	30.07	17.68	29.12	9.58
PNG-01 z1	27.0	36.2	26.99	36.21	23.97	1.63	0.7721	1.49	4.4011	2.57	0.0418	1.72	0.17125	2.86	263.84	3.45	1712.54	5.14	3204.02	5.73
PNG-01 z2	24.3	8.7	24.26	8.71	210.51	3.09	0.2121	8.09	0.1377	8.56	0.0048	3.37	0.00489	8.06	30.67	6.74	131.03	17.12	98.81	16.13
PNG-01 z3	26.5	12.8	26.48	12.83	245.26	5.51	0.0500	24.85	0.0284	24.31	0.0041	6.23	0.00216	14.81	26.59	12.45	28.45	48.62	43.79	29.63
PNG-01 z4	25.6	6.7	25.64	6.74	220.66	2.90	0.1426	8.14	0.0882	7.80	0.0045	2.93	0.00315	7.64	29.18	5.85	85.80	15.59	63.84	15.29

Appendix B: Eastern Sunda arc geochronology data - zircon

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Analysis ID	Pref Age Ma	2s%	206Pb/238U Age	2s%	238U/206Pb ratio	18%	207Pb/206Pb ratio	18%	207Pb/235U (calc) ratio	18%	206Pb/238U ratio	1s%	208Pb/232Th ratio	1s%	206Pb/238U Age (Ma)	2s%	207Pb/235U(calc) Age (Ma)	2s%	208Pb/232Th Age (Ma)	2s%
SINA-01 z1	24.5	8.6	24.50	8.57	263.13	4.12	0.0533	18.07	0.0279	17.69	0.0038	4.11	0.00138	16.19	24.72	8.22	27.99	35.38	27.90	32.38
SINA-01 z11	24.2	3.2	24.16	3.25	267.16	1.43	0.0476	6.23	0.0244	6.31	0.0038	1.58	0.00130	3.62	24.20	3.16	24.52	12.63	26.31	7.23
SINA-01 z12	24.5	5.0	24.54	5.05	254.11	2.23	0.0717	8.37	0.0386	8.25	0.0039	2.40	0.00147	8.60	25.35	4.80	38.48	16.51	29.74	17.19
SINA-01 z14	26.2	5.1	26.18	5.15	245.44	2.29	0.0473	10.51	0.0263	10.40	0.0041	2.50	0.00161	8.79	26.20	5.00	26.39	20.81	32.60	17.58
SINA-01 z15	25.4	9.9			253.92	3.29	0.0403	16.45	0.0218	16.21	0.0039	3.29	0.00143	13.03	25.37	6.58	21.86	32.43	28.87	26.07
SINA-01 z16	24.5	0.9			264.33	2.87	0.0425	13.90	0.0222	13.71	0.0038	2.99	0.00113	10.74	24.46	5.97	22.28	27.43	22.84	21.48
SINA-01 z19	23.9	9.7	23.85	7.62	268.16	3.15	0.0485	14.30	0.0247	14.07	0.0037	3.71	0.00163	10.96	23.91	7.43	24.73	28.14	32.97	21.93
SINA-01 z2	25.5	8.4	25.45	8.43	252.43	3.87	0.0502	17.51	0.0274	17.16	0.0040	4.07	0.00138	15.59	25.57	8.14	27.47	34.33	27.99	31.18
SINA-01 z20	26.4	6.1	26.35	6.14	242.60	2.87	0.0548	12.35	0.0309	12.14	0.0041	2.95	0.00194	10.71	26.63	5.90	30.86	24.29	39.34	21.43
SINA-01 z21	24.0	6.5	24.00	6.50	262.74	3.08	0.0599	12.72	0.0313	12.47	0.0038	3.10	0.00156	12.77	24.41	6.21	31.30	24.94	31.61	25.53
SINA-01 z22	25.5	5.2	25.47	5.17	251.10	2.48	0.0547	10.64	0.0300	10.49	0.0040	2.48	0.00187	8.58	25.73	4.96	29.97	20.98	37.86	17.17
SINA-01 z23	24.1	9.7	24.11	7.64	265.68	3.64	0.0548	17.33	0.0284	16.34	0.0038	3.62	0.00165	11.77	24.36	7.25	28.41	32.69	33.52	23.55
SINA-01 z24	23.8	8.3	23.83	8.35	262.49	3.47	0.0725	13.27	0.0381	12.92	0.0038	3.98	0.00168	13.50	24.64	7.97	37.92	25.84	33.94	27.00
SINA-01 z25	23.0	8.9	22.98	6.75	237.07	2.84	0.1682	7.35	0.0975	7.00	0.0042	2.82	0.00421	7.19	27.15	5.64	94.47	14.00	85.22	14.37
SINA-01 z27	24.8	9.6	24.80	9.64	189.67	2.91	0.2606	6.59	0.1887	10.12	0.0053	3.77	0.00752	10.26	33.97	7.54	175.54	20.23	151.84	20.52
SINA-01 z29	24.7	4.7	24.66	4.71	255.61	2.25	0.0655	8.84	0.0352	8.73	0.0039	2.24	0.00171	8.26	25.27	4.47	35.12	17.46	34.66	16.53
SINA-01 z30	25.4	4.8			251.71	2.08	0.0404	10.24	0.0220	10.17	0.0040	2.38	0.00141	8.06	25.43	4.75	22.11	20.35	28.49	16.12
SINA-01 z31	25.5	6.4	25.49	6.45	247.88	2.89	0.0620	11.77	0.0344	11.54	0.0040	3.09	0.00153	12.70	26.00	6.17	34.34	23.08	31.04	25.40
SINA-01 z32	24.7	5.3	24.73	5.28	250.68	2.34	0.0766	8.61	0.0420	8.47	0.0040	2.50	0.00164	8.69	25.71	5.00	41.77	16.94	33.26	17.38
SINA-01 z33	22.9	8.9	22.88	6.78	164.09	1.68	0.3765	3.32	0.3154	3.31	0.0061	1.83	0.01256	3.05	39.18	3.66	278.35	6.62	253.04	6.10
SINA-01 z34	23.8	6.4	23.83	6.35	265.07	2.79	0.0612	11.35	0.0317	11.15	0.0038	3.05	0.00190	9.57	24.29	6.11	31.71	22.30	38.39	19.13
SINA-01 z4	24.9	5.1	24.95	5.12	253.75	2.45	0.0594	10.09	0.0320	9.94	0.0039	2.45	0.00147	9.59	25.36	4.89	31.98	19.89	29.77	19.18
SINA-01 z5	23.7	3.8	23.68	3.82	270.55	1.83	0.0505	7.99	0.0256	7.97	0.0037	1.84	0.00121	80.9	23.80	3.69	25.65	15.95	24.41	12.15
SINA-01 z6	25.6	0.9	25.62	5.96	243.69	2.86	0.0776	10.60	0.0443	10.37	0.0041	2.78	0.00143	7.79	26.66	5.55	44.04	20.75	28.99	15.57
SINA-01 z7	25.6	9.6			254.36	4.80	0.0438	23.19	0.0239	22.76	0.0040	4.79	0.00115	19.97	25.56	9.59	23.98	45.52	23.27	39.94
SINA-01 z8	24.6	5.2	24.57	5.23	262.02	2.53	0.0467	11.69	0.0244	11.55	0.0038	2.53	0.00144	10.40	24.58	5.05	24.47	23.09	29.14	20.80
SINA-01 z9	23.9	9.9			269.95	2.83	0.0463	13.19	0.0235	13.00	0.0037	2.80	0.00156	10.04	23.93	5.60	23.62	26.01	31.50	20.08
SINA-02 z1	25.2	5.9	25.22	5.88	247.54	2.73	0.0738	10.21	0.0411	66.6	0.0041	2.77	0.00267	9.19	26.12	5.54	40.85	19.98	54.02	18.37
SINA-02 z10	24.4	7.2	24.41	7.18	259.36	3.39	0.0587	14.38	0.0310	14.08	0.0039	3.43	0.00166	12.74	24.79	98.9	31.01	28.16	33.57	25.48
SINA-02 z11	24.3	7.5	24.29	7.46	214.50	3.00	0.2017	7.10	0.1311	69.9	0.0047	2.96	0.00719	79.7	30.21	5.92	125.09	13.38	145.12	15.33
SINA-02 z12	24.5	5.0	24.45	4.98	254.61	2.36	0.0706	8.94	0.0381	8.80	0.0039	2.35	0.00153	8.93	25.22	4.71	37.99	17.60	31.03	17.85
SINA-02 z14	26.0	9.7	26.04	7.63	242.36	3.63	0.0595	15.14	0.0339	14.80	0.0041	3.64	0.00176	13.25	26.47	7.28	33.88	29.60	35.65	26.50
SINA-02 z15	24.2	8.9	24.16	8.92	256.26	3.49	0.0734	13.45	0.0390	13.09	0.0039	4.27	0.00143	12.31	25.01	8.55	38.81	26.18	29.00	24.61
SINA-02 z17	25.0	5.5	25.02	5.52	256.31	2.52	0.0518	11.08	0.0280	10.93	0.0039	2.66	0.00161	9.52	25.19	5.33	28.01	21.86	32.56	19.03
SINA-02 z18	24.1	5.5	24.06	5.54	263.32	2.42	0.0552	10.43	0.0289	10.29	0.0038	2.67	0.00134	96.8	24.32	5.35	28.90	20.58	27.21	17.92
SINA-02 z19	25.8	4.8			249.87	2.11	0.0459	9.77	0.0254	9.70	0.0040	2.42	0.00144	7.51	25.78	4.84	25.50	19.40	29.21	15.02
SINA-02 z2	24.2	5.9	24.20	5.87	251.71	2.64	0.0875	9.13	0.0478	8.91	0.0040	2.74	0.00167	10.00	25.52	5.48	47.42	17.82	33.72	20.00
SINA-02 z20	24.2	7.1	24.21	7.12	258.32	3.36	0.0703	12.93	0.0376	12.61	0.0039	3.36	0.00171	13.36	24.96	6.72	37.48	25.21	34.60	26.73
SINA-02 z21	23.7	4.9	23.72	4.89	262.97	2.22	0.0714	8.34	0.0376	8.23	0.0038	2.32	0.00146	7.62	24.49	4.64	37.43	16.46	29.51	15.24
SINA-02 z22	25.0	5.7	24.96	5.71	255.92	2.35	0.0531	10.27	0.0287	10.14	0.0039	2.77	0.00161	8.92	25.17	5.55	28.73	20.28	32.58	17.84
SINA-02 z23	24.0	6.2	24.02	6.20	263.38	2.74	0.0588	11.40	0.0308	11.21	0.0038	2.98	0.00155	10.54	24.40	5.96	30.83	22.41	31.46	21.08
SINA-02 z24	25.0	5.2	24.98	5.18	252.52	2.32	0.0591	9.61	0.0322	9.48	0.0039	2.49	0.00162	7.92	25.38	4.98	32.21	18.96	32.89	15.85
SINA-02 z25	25.0	3.9	24.95	3.86	248.49	1.82	0.0750	6.61	0.0418	6.59	0.0040	1.82	0.00195	5.93	25.88	3.64	41.62	13.18	39.50	11.85
SINA-02 z26	24.6	4.3	24.63	4.28	258.44	1.98	0.0556	8.41	0.0298	8.35	0.0039	2.06	0.00147	7.24	24.91	4.12	29.77	16.71	29.82	14.48
SINA-02 z27	24.6	4.8			261.79	2.24	0.0446	9.55	0.0237	9.49	0.0038	2.40	0.00132	7.39	24.62	4.79	23.75	18.98	26.74	14.79
1																				

Appendix B: Eastern Sunda arc geochronology data - zircon

Pref Age 2s% 206Pb/238U Age	2s%	206Pb/238 Age	Ω	2s%	238U/206Pb ratio	18%	207Pb/206Pb ratio	18%	207Pb/235U (calc) ratio	1s%	206Pb/238U ratio	18%	208Pb/232Th ratio	18%	206Pb/238U Age (Ma)	2s%	207Pb/235U(calc) Age (Ma)	2s%	208Pb/232Th Age (Ma)	2s%
25.0 4.8 259.16 2.4;	4.8	259.16 2.4;	259.16 2.4;	259.16 2.4;	2.4	~	0.0463	11.14	0.0249	11.01	0.0039	2.40	0.00128	10.00	24.96	4.80	25.01	22.03	25.90	20.00
23.8 4.8 23.79 4.84 270.90 2.27	4.8 23.79 4.84 270.90	4.84 270.90	270.90		2.27		0.0474	10.47	0.0241	10.37	0.0037	2.34	0.00151	7.64	23.82	4.68	24.16	20.74	30.54	15.29
24.7 4.9 24.70 4.95 252.56 2.15	24.70 4.95 252.56	4.95 252.56	252.56		2.15		0.0700	8.22	0.0384	8.12	0.0040	2.36	0.00192	7.89	25.46	4.72	38.27	16.24	38.80	15.79
5.1	5.1	261.99	261.99		2.55		0.0458	11.86	0.0243	11.72	0.0038	2.54	0.00154	9.85	24.57	2.07	24.37	23.43	31.16	19.71
4.6 24.01 4.63 263.45	4.6 24.01 4.63 263.45	4.63 263.45	263.45		2.05		0.0629	8.12	0.0332	8.05	0.0038	2.22	0.00164	7.31	24.51	4 8	33.18	16.11	33.13	14.62
4.00 200.65 1.90 5.69 253.75 2.46	4.0 23.45 4.00 200.05 1.90 5.7 24.99 5.69 253.75 2.46	4.00 <u>2</u> 00.65 1.90 5.69 <u>253.75 2.46</u>	253.75 2.46	2.46			0690.	10.29	0.0316	10.15	0.0038	2.75	0.00156	8.97	25.34	5.49	31.55	20.29	31.60	13.80
6.2 23.35 6.21 214.34 2.37 0.	6.2 23.35 6.21 214.34 2.37 0.	6.21 214.34 2.37 0.	214.34 2.37 0.	2.37 0.	0	0	2219	5.43	0.1426	5.43	0.0047	2.39	0.00467	4.81	29.98	4.78	135.31	10.86	94.36	9.62
24.9 5.8 24.94 5.84 253.46 2.53 0	5.8 24.94 5.84 253.46 2.53	5.84 253.46 2.53	253.46 2.53	2.53		0	.0608	10.32	0.0330	10.16	0.0039	2.81	0.00153	9.84	25.40	5.62	32.98	20.32	31.06	19.68
21.7 10.8 21.66 10.78 124.27 1.79 0.	21.66 10.78 124.27 1.79	10.78 124.27 1.79	124.27 1.79	1.79		0	.5089	3.07	0.5647	3.55	0.0081	1.88	0.01917	3.39	51.88	3.75	454.57	7.10	384.85	6.77
25.6 4.7 25.64 4.67 243.88 2.20 0.	4.7 25.64 4.67 243.88 2.20	4.67 243.88 2.20	243.88 2.20	2.20		0	6890	8.42	0.0389	8.31	0.0041	2.21	0.00208	7.35	26.39	4.43	38.72	16.62	42.09	14.69
24.7 5.1 24.72 5.11 256.59 2.34 0.	5.1 24.72 5.11 256.59 2.34	5.11 256.59 2.34	256.59 2.34	2.34		0	0616	9.53	0.0329	9.40	0.0039	2.44	0.00154	9.62	25.20	4.88	32.92	18.80	31.22	19.24
20.0 5.9 321.66 2.63 0.0	5.9 321.66 2.63 0.	2.63 0.	2.63 0.	2.63 0.	0	0.0	0452	12.24	0.0191	12.04	0.0031	2.95	0.00087	9.40	20.00	5.91	19.24	24.08	17.64	18.79
7.4 10.7 7.43 10.67 846.13 5.05 0.0	7.43 10.67 846.13 5.05 0.	10.67 846.13 5.05 0.	846.13 5.05 0.	5.05	0	0.0	6990	19.89			0.0012	5.05	0.00037	18.43	7.63	10.10	0.00		7.45	36.87
24.3 4.4 264.53 2.17 0.03	4.4 264.53 2.17 0.	2.17 0.	2.17 0.	2.17 0.	0	0.0	9980	11.01	0.0189	10.90	0.0038	2.18	0.00132	8.13	24.33	4.36	19.02	21.79	26.64	16.27
6.5 16.4 0.0400	1022.04 9.64 0.	9.64 0.	9.64 0.	9.64 0.	0	0.04	8	32.35	< DL	31.26	0.0010	8.22	0.00049	18.76	6.49	16.43	< DL	62.53	9.92	37.53
7.6 13.4 6.70 0.04	844.94 6.70 0.	6.70 0.	6.70 0.	6.70 0.	0	0.0	0400	25.13	< DL	24.31	0.0012	6.70	< DL	28.96	7.63	13.40	< DL	48.63	< DL	57.93
7.9 12.7 826.90 6.32 0.0400	12.7 826.90 6.32 0.	6.32 0.	6.32 0.	6.32 0.	0	0.040	0	29.08	< DL	28.42	0.0012	6.34	0.00070	15.37	7.88	12.68	< DL	56.83	14.14	30.73
6.8 15.7 6.81 15.66 890.62 6.44 0.0936	6.81 15.66 890.62 6.44 0.	15.66 890.62 6.44 0.	890.62 6.44 0.	6.44 0.	0	0.09	36	21.75	0.0141	20.83	0.0011	7.34	0.00030	21.82	7.25	14.67	14.27	41.66	90.9	43.63
15.0 8.90 14.97 673.87 7.51	15.0 8.90 14.97 673.87 7.51 0.	14.97 673.87 7.51 0.	673.87 7.51 0.	7.51 0.	Ö	0.108	0	21.42	0.0224	20.44	0.0015	6.78	0.00101	15.08	99.6	13.57	22.49	40.87	20.56	30.15
16.4 933.74 8.75	16.4 933.74 8.75 0.	8.75 0.	8.75 0.	8.75 0.	0	0.040	0	44.80	< DL	44.10	0.0011	8.22	0.00038	22.58	98.9	16.44	< DL	88.19	7.78	45.16
20.3 6.92 20.32 696.21 7.35 0.	20.3 6.92 20.32 696.21 7.35 0.	20.32 696.21 7.35 0.	696.21 7.35 0.	7.35 0.	Ö	0.248	~	16.43	0.0486	14.75	0.0014	7.40	0.00110	17.29	9.30	14.80	48.15	29.50	22.38	34.58
15.6 836.88 7.78	836.88 7.78 0.	7.78 0.	7.78 0.	7.78 0.	0	0.040	0	34.39	~ DΓ	33.52	0.0012	7.81	0.00085	19.92	99.2	15.62	^ DΓ	67.04	17.31	39.84
11.0 7.85 11.01 815.87 5.29	7.85 11.01 815.87 5.29 0.	11.01 815.87 5.29 0.	815.87 5.29 0.	5.29 0.	Ö	0.052	g.	23.28	0.0089	22.72	0.0012	5.28	0.00072	13.40	7.91	10.56	8.97	45.44	14.63	26.81
13.4 7.13 13.41 739.67 5.45	7.13 13.41 739.67 5.45 0.	13.41 739.67 5.45 0.	739.67 5.45 0.	5.45 0.	Ö	0.193	~	13.18	0.0364	12.21	0.0014	5.40	0.00084	11.29	8.77	10.81	36.30	24.42	17.03	22.58
2.7 20.03 2.68 322.10 1.23 0.	20.03 2.68 322.10 1.23 0.	2.68 322.10 1.23 0.	322.10 1.23 0.	1.23 0.	0	0.046	ις	4.05	0.0200	4.41	0.0031	1.32	0.00102	3.55	20.03	2.64	20.13	8.81	20.70	7.09
2.6 310.42 1.19 0.	310.42 1.19 0.	310.42 1.19 0.	310.42 1.19 0.	1.19 0.	0	0.04	0458	4.14	0.0202	4.54	0.0032	1.28	0.00105	3.23	20.75	2.56	20.28	9.08	21.34	6.46
11.9 21.34 11.94 298.56 5.58 0.	21.34 11.94 298.56 5.58 0.	11.94 298.56 5.58 0.	298.56 5.58 0.	5.58 0.	Ö	0.05	7	23.68	0.0262	23.06	0.0034	5.72	0.00208	19.29	21.63	11.43	26.27	46.12	42.16	38.59
8.2 20.62 8.24 312.02 3.14 0.	20.62 8.24 312.02 3.14 0.	8.24 312.02 3.14 0.	312.02 3.14 0.	3.14 0.	O.	0.04	96	18.02	0.0222	14.92	0.0032	3.97	0.00105	10.48	20.70	7.93	22.26	29.84	21.17	20.96
11.3 22.24 11.35 289.98 4.58 0.	22.24 11.35 289.98 4.58 0.	11.35 289.98 4.58 0.	289.98 4.58 0.	4.58 0.	O.	0.04	68	19.47	0.0233	19.10	0.0035	5.55	0.00107	12.32	22.31	11.10	23.41	38.21	21.62	24.64
8.4 17.38 8.44 370.22 3.88 0.	17.38 8.44 370.22 3.88 0.	8.44 370.22 3.88 0.	370.22 3.88 0.	3.88 0.	0	0.05	43	16.35	0.0204	16.04	0.0027	4.07	0.00095	10.70	17.56	8.13	20.52	32.07	19.34	21.41
5.5 365.33 2.74	365.33 2.74 0.	365.33 2.74 0.	365.33 2.74 0.	2.74 0.	0	0.04	53	12.71	0.0162	12.59	0.0027	2.73	0.00095	7.06	17.64	5.46	16.31	25.17	19.22	14.13
6.1 17.05 6.14 376.99 2.79 0.	17.05 6.14 376.99 2.79 0.	6.14 376.99 2.79 0.	376.99 2.79 0.	2.79 0.	Ö	0.04	7	12.50	0.0172	12.37	0.0027	2.98	0.00071	10.20	17.07	5.97	17.29	24.73	14.45	20.41
20.5 11.43 20.49 193.34 2.52 0.	11.43 20.49 193.34 2.52 0.	20.49 193.34 2.52 0.	193.34 2.52 0.	2.52 0.	Ö	0.56	5683	4.50	0.4094	5.36	0.0052	3.00	0.00667	5.34	33.52	6.01	348.41	10.73	134.73	10.69
946.9 2.4 946.88 2.40 6.14 1.25 0.1014	946.88 2.40 6.14 1.25 0.	2.40 6.14 1.25 0.	6.14 1.25 0.	1.25 0.	0	0.101	4	1.25	2.2714	2.41	0.1643	1.23	0.03174	3.07	980.46	2.47	1203.46	4.81	633.41	6.14
7.6 17.3 849.30 8.64 0.0400	849.30 8.64 0.	8.64 0.	8.64 0.	8.64 0.	0	0.040	0	25.30	< DL	23.88	0.0012	8.64	0.00049	23.72	7.58	17.28	< DL	47.76	9.86	47.44
7.7 12.3 838.94 6.18 0.0400	838.94 6.18 0.	6.18 0.	6.18 0.	6.18 0.	0	0.04	8	23.94	< DL	23.23	0.0012	6.17	0.00051	14.49	7.70	12.33	< DL	46.47	10.41	28.98
8.6 16.7 8.63 16.70 628.20 6.93 0.18	8.63 16.70 628.20 6.93 0.	16.70 628.20 6.93 0.	628.20 6.93 0.	6.93	0	0.18	1818	17.23	0.0404	15.96	0.0016	6.84	0.00122	11.53	10.41	13.69	40.18	31.91	24.63	23.06
22.9 8.5 283.43 3.64 0.0	8.5 283.43 3.64 0.	3.64 0.	3.64 0.	3.64 0.	o	0.0	0423	17.37	0.0207	17.12	0.0036	4.25	0.00091	14.39	22.89	8.49	20.82	34.25	18.42	28.79
162.3 4.96 162.33 254.27 30.31	162.3 4.96 162.33 254.27 30.31	162.33 254.27 30.31	254.27 30.31	30.31		0	6838	18.00	0.3697	14.00	0.0040	11.57	0.00729	17.37	25.52	23.14	319.45	27.99	147.16	34.74
22.7 2137.66	22.7 2137.66	2137.66	2137.66		11.21		0.0400	44.92	< DL	43.52	0.0005	11.35	0.00032	28.93	3.05	22.71	< DL	87.04	6.43	57.85
31.4 4.36 31.43 391.48	31.4 4.36 31.43 391.48	31.43 391.48	391.48		2.91		0.6286	4.95	0.2236	6.86	0.0026	3.27	0.00286	4.67	16.56	6.55	204.87	13.72	57.97	9.34
82.5 3.52 82.48 343.55	82.5 3.52 82.48 343.55	82.48 343.55	343.55		7.74		0.6920	8.41	0.2809	11.21	0:0030	7.47	0.00158	8.25	19.19	14.95	251.38	22.42	31.94	16.50
6.8 24.20 6.82 259.02	6.8 24.20 6.82 259.02	6.82 259.02	259.02		3.27		0.0756	11.87	0.0410	11.75	0:0039	3.21	0.00174	9.65	25.12	6.41	40.82	23,50	35.17	19.30
0.0 24.20 0.02 203.02 0.27 72 0.04 0.04 0.04	7.0 20.0 24.20 0.02 2.03.02 0.27	726 203.02 3.27	209.02	3.27		· ·	00.70	/0.1	0.0410	0 7 0	0.0038	3.66	0.00174	9.00	23.12	4. 6	40.92	17.03	37.17	9.30
7.8 14.60 7.76 407.11 3.14 0.	7.8 14.60 7.76 407.11 3.14 0.	7.76 407.11 3.14 0.	407.11 3.14 0.	3.14 0.	o	o.T.o	ρ	0.70	0.0010	Q.52	0.0025	3.00	0.00101	00.7	10.00		00:00	50.71	31.00	- - -

Appendix B: Eastern Sunda arc geochronology data - zircon

٦ 2s%	2 29.37	7 9.37	9.84			3 22.03	2 11.45	2 24.33	13.68	4 25.29	38.71	29.7	9 17.25	3 22.86	14.04	7 11.27	8 13.37	2 16.97	29.02	3 15.57	5 13.37	8.99	5 16.49	4 23.13	2 27.87	7 21.71	3 31.47	1 23.82	4 36.57	3 26.89	7 7.03	4 14.88	3 15.57	9 22.65	5 16.73	8.15					4 0				
208Pb/232Th Age (Ma)	110.72	15.07	12.54	105.86	36.38	32.53	45.32	17.92	15.41	13.14	28.16	14.10	15.09	21.66	15.40	13.17	14.58	14.82	17.30	14.18	12.85	14.17	16.46	15.74	15.52	21.87	18.63	23.91	60.44	48.98	920.57	27.54	111.83	34.89	250.26	1663.09		41.29	41.29 69.76	41.29 69.76 29.37	41.29 69.76 29.37 66.81	41.29 69.76 29.37 66.81 55.73	41.29 69.76 29.37 66.81 55.73	41.29 69.76 29.37 66.81 55.73 49.45	41.29 69.76 29.37 66.81 55.73 49.45 150.53 88.36
2s%	8.52	12.37	14.14	8.04	11.75	19.78	12.65	44.12	29.66	49.91	42.63	15.27	41.16	48.51	28.08	24.74	28.39	31.51		24.13	23.08	17.66	34.39		52.04	32.74	48.58	48.07	62.31	34.59	6.94	17.51	16.95	28.82	14.60	6.49	22.37		16.96	16.96	16.96 31.50 47.02	16.96 31.50 47.02 21.21	16.96 31.50 47.02 21.21 31.77	16.96 31.50 47.02 21.21 31.77 20.30	16.96 31.50 47.02 21.21 31.77 20.30
207Pb/235U(calc) Age (Ma)	123.82	17.94	33.57	130.30	42.43	34.66	54.97	16.21	13.37	15.21	37.87	15.47	12.72	14.99	15.90	13.37	13.62	15.99	0.00	24.20	14.36	13.60	16.74	0.00	14.29	16.98	15.17	13.11	26.20	38.76	936.17	32.79	123.36	28.89	247.62	1067.85	45.04		104.03	104.03	104.03 28.94 44.14	104.03 28.94 44.14 73.54	104.03 28.94 44.14 73.54 31.13	104.03 28.94 44.14 73.54 31.13	104.03 28.94 44.14 73.54 31.13 138.88 109.40
2s%	13.29	3.27	7.18	4.28	4.09	6.23	4.62	15.40	6.56	12.60	15.34	3.67	8.46	10.61	98.9	00.9	6.97	7.54	10.12	6.97	6.19	4.31	8.11	8.53	11.48	8.44	12.51	10.19	13.34	9.38	4.59	4.58	6.49	7.55	8.38	5.18	5.77		6.98	6.98	6.98 7.33 12.39	6.98 7.33 12.39 7.40	6.98 7.33 12.39 7.40	6.98 7.33 12.39 7.40 7.75	6.98 7.33 7.40 7.75 10.39
206Pb/238U Age (Ma)	16.75	11.23	11.39	26.88	23.27	24.49	24.15	14.23	13.43	14.49	13.88	13.74	14.48	15.67	13.69	13.50	13.70	13.53	13.84	14.10	13.86	13.49	14.52	14.29	14.30	14.99	13.77	15.10	27.55	26.18	107.60	24.65	31.02	24.89	43.83	127.68	26.06		28.61	28.61 25.93	28.61 25.93 30.64	28.61 25.93 30.64 29.81	28.61 25.93 30.64 29.81 26.89	28.61 25.93 30.64 29.81 26.89 32.70	28.61 25.93 30.64 29.81 26.89 32.70 31.99
18%	14.68	4.69	4.92	4.59	5.66	11.02	5.72	12.16	6.84	12.64	19.36	3.84	8.63	11.43	7.02	5.64	6.68	8.49	14.51	7.78	69.9	4.49	8.25	11.57	13.93	10.86	15.74	11.91	18.29	13.44	3.52	7.44	7.79	11.33	8.36	4.07	9.05		5.96	5.96	5.96 13.81 16.87	5.96 13.81 16.87 9.38	5.96 13.81 16.87 9.38 14.86	5.96 13.81 16.87 9.38 14.86	5.96 13.81 16.87 9.38 14.86 11.41
208Pb/232Th ratio	0.00548	0.00074	0.00062	0.00524	0.00180	0.00161	0.00224	0.00088	0.00076	0.00065	0.00139	0.00070	0.00074	0.00107	0.00076	0.00065	0.00072	0.00073	0.00085	0.00070	0.00063	0.00070	0.00081	0.00078	0.00077	0.00108	0.00092	0.00118	0.00299	0.00242	0.04646	0.00136	0.00553	0.00172	0.01242	0.08551	0.00204	!	0.00345	0.00345	0.00345 0.00145 0.00330	0.00345 0.00145 0.00330 0.00275	0.00345 0.00145 0.00330 0.00275 0.00244	0.00345 0.00145 0.00330 0.00275 0.00244 0.00745	0.00345 0.00145 0.00330 0.00275 0.00244 0.00745
18%	6.64	1.63	3.59	2.14	2.05	3.12	2.31	7.70	3.28	6.30	7.67	1.83	4.23	5.31	3.43	3.00	3.48	3.77	5.06	3.48	3.10	2.16	4.05	4.26	5.74	4.22	6.26	5.09	6.67	4.69	2.29	2.29	3.24	3.77	4.19	2.59	2.89		3.49	3.49	3.49 3.67 6.19	3.49 3.67 6.19 3.70	3.49 3.67 6.19 3.70 3.87	3.67 6.19 3.70 3.87 5.19	3.49 3.67 6.19 3.70 3.87 3.86
206Pb/238U ratio	0.0026	0.0017	0.0018	0.0042	0.0036	0.0038	0.0038	0.0022	0.0021	0.0023	0.0022	0.0021	0.0022	0.0024	0.0021	0.0021	0.0021	0.0021	0.0021	0.0022	0.0022	0.0021	0.0023	0.0022	0.0022	0.0023	0.0021	0.0023	0.0043	0.0041	0.0168	0.0038	0.0048	0.0039	0.0068	0.0200	0.0041		0.0044	0.0040	0.0040	0.0044 0.0040 0.0048 0.0046	0.0040 0.0040 0.0048 0.0046	0.0040 0.0040 0.0046 0.0042 0.0051	0.0040 0.0048 0.0048 0.0046 0.0061 0.0050
18%	4.26	6.19	7.07	4.02	5.88	9.89	6.32	22.06	14.83	24.95	21.31	7.63	20.58	24.25	14.04	12.37	14.19	15.75		12.06	11.54	8.83	17.19		26.02	16.37	24.29	24.04	31.15	17.30	3.47	8.75	8.48	14.41	7.30	3.25	11.19	9	0.40	15.75	0.40 15.75 23.51	23.51 10.61	0.46 15.75 23.51 10.61	0.46 15.75 23.51 10.61 15.88	15.75 23.51 10.61 15.88 10.15 8.56
207Pb/235U (calc) ratio	0.1297	0.0178	0.0336	0.1369	0.0427	0.0347	0.0556	0.0161	0.0133	0.0151	0.0380	0.0154	0.0126	0.0149	0.0158	0.0133	0.0135	0.0159		0.0241	0.0142	0.0135	0.0166		0.0142	0.0169	0.0151	0.0130	0.0261	0.0389	1.5143	0.0328	0.1292	0.0289	0.2762	1.8624	0.0454	0.1079	0.00	0.0289	0.0289	0.0289	0.0289 0.0444 0.0751 0.0311	0.0289 0.0289 0.0751 0.0311 0.1466	0.0289 0.0289 0.0751 0.0311 0.1466 0.1138
1s%	4.43	5.88	7.52	3.86	5.95	10.76	5.91	22.61	15.04	25.48	22.55	7.71	20.90	24.71	14.28	12.50	14.38	16.06	24.86	12.38	11.74	8.93	17.54	18.03	26.55	16.75	24.82	24.48	31.78	17.78	2.45	8.92	8.12	14.74	8.39	1.75	11.30	7 83	20.	16.10	16.10	16.10 24.21 11.03	16.10 24.21 11.03	16.10 24.21 11.03 16.26	16.10 24.21 11.03 16.26 11.85
207Pb/206Pb ratio	0.3603	0.0730	0.1343	0.2364	0.0843	0.0658	0.1073	0.0533	0.0458	0.0483	0.1274	0.0525	0.0403	0.0440	0.0535	0.0455	0.0457	0.0544	0.0421	0.0793	0.0486	0.0469	0.0531	0.0565	0.0464	0.0529	0.0508	0.0403	0.0444	0.0691	0.6504	0.0616	0.1913	0.0547	0.2961	0.6801	0.0801	0 1815	0.00	0.0522	0.0522	0.0522 0.0674 0.1172	0.0522 0.0674 0.1172 0.0548	0.0522 0.0674 0.1172 0.0548 0.2039	0.0522 0.0674 0.1172 0.0548 0.2039 0.1641
18%	5.76	1.63	2.94	1.91	1.80	2.44	1.87	6.53	3.27	5.58	7.81	1.83	4.20	5.32	3.35	2.77	3.15	3.81	5.02	3.49	2.63	1.99	4.09	4.64	5.69	3.83	5.62	4.97	6.65	4.64	2.50	2.25	3.25	3.47	3.99	2.74	2.89		7.84	3.68	3.68	3.68 6.31 3.76	3.68 3.68 3.76 3.79	3.68 3.68 6.31 3.76 3.79 4.62	3.68 3.68 3.76 3.79 4.62 3.51
238U/206Pb ratio	390.34	574.07	566.48	240.14	277.34	264.73	268.06	454.99	483.46	447.39	471.01	468.51	448.55	412.93	472.30	479.96	470.37	479.14	464.00	457.43	466.29	477.34	445.11	453.86	454.59	430.14	472.94	428.74	234.34	247.57	59.36	261.69	208.45	258.73	146.83	50.13	247.80	12.00	224.5	249.89	249.89 209.66	249.89 209.66 218.10	249.89 249.89 209.66 218.10 239.40	249.89 209.66 218.10 239.40 198.10	249.89 209.66 218.10 239.40 198.10 201.51
2s%	14.97	3.45	7.73	5.31	4.30	6.49	4.94	15.69		12.97	17.34	3.81			7.12			7.86		7.43	6.36	4.44	8.44	8.91	11.89	8.73	12.91			9.90	18.92	4.79	8.09	7.82	12.45	18.19	6.24	0	0.77	7.63	7.63	7.63 13.07 8.21	7.63 13.07 8.21 8.06	7.63 13.07 8.21 8.06	7.63 7.63 13.07 8.21 8.06 12.88
206Pb/238U Age	10.10	10.85	10.12	20.44	22.16	23.89	22.30	14.11		14.46	12.46	13.64			13.56			13.39		13.51	13.82	13.48	14.40	14.11	14.30	14.86	13.69			25.43	26.14	24.18	25.35	24.63	30.05	26.44	24.96	23.74	47.07	25.75	25.75	25.75 29.84 27.16	25.75 29.84 27.16 26.61	25.75 29.84 27.16 26.61 26.21	25.75 29.84 27.16 26.61 26.21 27.24
2s%	15.0	3.5	7.7	5.3	4.3	6.5	4.9	15.7	9.9	13.0	17.3	3.8	8.5	10.6	7.1	0.9	7.0	7.9	10.1	7.4	6.4	4.4	8.4	8.9	11.9	8.7	12.9	10.2	13.3	6.6	18.9	4.8	1.8	7.8	12.4	18.2	6.2	0	7.0	7.6	7.6	13.7 13.1 13.1	7.6 7.6 8.2 8.2	7.0 7.0 7.0 8.2 12.9 12.9	7. 6. £1 7. 8. 8. £1 7. 6. £2 6. 6. £2 6. 6. £2 6. 6. £2 6. £2 6. £3 6.
Pref Age Ma	10.1	10.9	10.1	20.4	22.2	23.9	22.3	14.1	13.4	14.5	12.5	13.6	14.5	15.7	13.6	13.5	13.7	13.4	13.8	13.5	13.8	13.5	14.4	14.1	14.3	14.9	13.7	15.1	27.5	25.4	26.1	24.2	25.4	24.6	30.1	26.4	25.0	73.7	7.07	25.7	25.7	25.7 29.8 27.2	25.7 29.8 27.2 26.6	25.7 29.8 27.2 26.6 26.6	25.7 29.8 27.2 26.6 26.5 27.2
Analysis ID	NEF-03_z_3	NEF-03_z_4	NEF-03_z_5	NEF-03_z_6	NEF-03_z_7	NEF-03_z_8	NEF-03_z_9	SEF-01_z_1	SEF-01_z_10	SEF-01_z_11	SEF-01_z_12	SEF-01_z_13	SEF-01_z_14	SEF-01_z_15	SEF-01_z_16	SEF-01_z_17	SEF-01_z_18	SEF-01_z_2	SEF-01_z_3	SEF-01_z_4	SEF-01_z_5	SEF-01_z_6	SEF-01_z_7	SEF-01_z_8	SEF-01_z_9	SEF-02_z_1	SEF-02_z_2	SEF-02_z_3	SINA-04_z_1	SINA-04_z_10	SINA-04_z_12	SINA-04_z_13	SINA-04_z_14	SINA-04_z_15	SINA-04_z_16	SINA-04_z_17	SINA-04_z_18	SINA-04 7 19	11NA-04-4	SINA-04_2_19 SINA-04_2_2	INA-04_2_2 INA-04_2_2 INA-04_2_20	SINA-04_2_19 SINA-04_2_2 SINA-04_2_20 SINA-04_2_21	SINA-04_Z_18 SINA-04_Z_2 SINA-04_Z_20 SINA-04_Z_21 SINA-04_Z_22	SINA-04_Z_18 SINA-04_Z_20 SINA-04_Z_21 SINA-04_Z_21 SINA-04_Z_22	SINA-04_2_1 SINA-04_2_2 SINA-04_2_21 SINA-04_2_22 SINA-04_2_22 SINA-04_2_23

Appendix B: Eastern Sunda arc geochronology data - zircon

28%	13.24	31.92	20.52	16.25	16.31	23.62	22.01	24.09	20.39	30.07	16.53	30.01	14.21	19.55	16.25	15.46	35.73	30.56	22.92	38.93	104.82	18.11	21.26	18.40	27.86	16.05	25.82	23.40	33.63	21.06	32.47	20.76	27.65	19.31	23.66	29.63	28.94	17.83	11.84	15.33	20.13	21.34	27.35	31.15	28.10
208Pb/232Th Age (Ma)	36.80	23.64	70.25	37.30	29.20	82.89	148.99	40.07	33.86	34.32	87.31	19.86	42.04	53.82	25.18	69.81	47.87	29.51	27.85	31.10	, PL		25.72	27.62					18.86	42.08			30.98	29.40	33.80	41.18	31.53	27.96	26.92	38.77	29.22	29.54	27.27	21.96	35.48
208 A	13.23		25.75	18.78	22.57	20.85	25.69	27.15	23.16	35.64	17.27	26.38	14.14	23.38		16.23	50.01	35.90	24.46	56.29	61.23	18.36	23.39	19.76	37.51	23.36	33.17	22.51	33.93	26.52	33.83	26.42	26.31	21.89	28.98	32.97	38.58	22.79	15.71	19.93	22.41	25.78	35.10	30.86	38.09
207Pb/235U(calc) Age (Ma)	41.27	0.00	53.33	39.17	26.51	78.18	133.07	37.01	35.79	52.13	81.79	24.04	54.60	61.22	0.00	71.33	27.66	22.84	22.55	17.58	54.31	28.75	25.14	28.83	31.01	25.99	29.40	30.37	25.02	38.74	24.59	25.47	27.45	22.43	25.07	40.17	28.73	26.55	25.24	40.42	24.17	25.00	29.97	25.16	20.32
2s%	3.92	10.50	66.6	5.35	6.57	8.52	7.67	7.35	6.72	9.91	6.52	5.89	5.13	6.83	5.45	6.03	13.08	7.48	5.44	10.14	23.37	4.44	5.16	4.72	9.28	5.37	9.61	5.50	7.68	7.82	7.71	5.91	6.39	5.72	6.70	9.20	9.02	00.9	3.72	5.84	5.36	5.94	8.26	6.79	7.72
206Pb/238U Age (Ma)	25.98	26.32	26.37	26.79	24.59	26.60	33.26	25.99	24.95	25.48	30.39	25.31	24.62	27.00	23.67	27.76	26.59	25.23	25.28	25.71	28.24	25.75	25.61	25.97	24.44	24.08	24.16	24.86	23.86	25.62	24.67	25.39	25.64	25.49	23.35	24.91	25.51	24.75	24.43	23.20	24.28	23.52	26.75	25.68	26.02
1s%	6.62	15.96	10.26	8.12	8.16	11.81	11.01	12.05	10.19	15.03	8.27	15.01	7.10	9.77	8.12	7.73	17.87	15.28	11.46	19.46	52.41	9.05	10.63	9.20	13.93	8.03	12.91	11.70	16.82	10.53	16.23	10.38	13.83	9.62	11.83	14.81	14.47	8.92	5.92	7.66	10.06	10.67	13.67	15.58	14.05
208Pb/232Th ratio	0.00182	0.00117	0.00347	0.00184	0.00144	0.00410	0.00738	0.00198	0.00167	0.00169	0.00432	0.00098	0.00208	0.00266	0.00124	0.00345	0.00236	0.00146	0.00137	0.00154	< DL	0.00123	0.00127	0.00136	0.00213	0.00147	0.00154	0.00102	0.00093	0.00208	0.00127	0.00205	0.00153	0.00145	0.00167	0.00203	0.00156	0.00138	0.00133	0.00191	0.00144	0.00146	0.00135	0.00108	0.00175
1s%	1.96	5.25	5.00	2.68	3.28	4.26	3.83	3.67	3.36	4.96	3.26	2.95	2.56	3.41	2.73	3.01	6.54	3.74	2.72	5.07	11.68	2.22	2.58	2.36	4.64	2.68	4.81	2.75	3.84	3.91	3.85	2.96	3.19	2.86	3.35	4.60	4.51	3.00	1.86	2.92	2.68	2.97	4.13	3.39	3.86
206Pb/238U ratio	0.0040	0.0041	0.0041	0.0042	0.0038	0.0041	0.0052	0.0040	0.0039	0.0040	0.0047	0.0039	0.0038	0.0042	0.0037	0.0043	0.0041	0.0039	0.0039	0.0040	0.0044	0.0040	0.0040	0.0040	0.0038	0.0037	0.0038	0.0039	0.0037	0.0040	0.0038	0.0039	0.0040	0.0040	0.0036	0.0039	0.0040	0.0038	0.0038	0.0036	0.0038	0.0037	0.0042	0.0040	0.0040
18%	6.61		12.88	9.39	11.28	10.43	12.84	13.57	11.58	17.82	8.64	13.19	7.07	11.69		8.11	25.00	17.95	12.23	28.15	30.61	9.18	11.70	9.88	18.76	11.68	16.59	11.26	16.97	13.26	16.92	13.21	13.16	10.94	14.49	16.48	19.29	11.39	7.85	9.97	11.20	12.89	17.55	15.43	19.04
207Pb/235U (calc) ratio	0.0415		0.0539	0.0393	0.0265	0.0800	0.1400	0.0371	0.0359	0.0527	0.0839	0.0240	0.0552	0.0621		0.0728	0.0276	0.0227	0.0225	0.0175	0.0549	0.0287	0.0251	0.0288	0.0310	0.0259	0.0294	0.0304	0.0250	0.0389	0.0245	0.0254	0.0274	0.0223	0.0250	0.0404	0.0287	0.0265	0.0252	0.0406	0.0241	0.0249	0.0300	0.0251	0.0202
18%	6.72	19.27	13.42	9.61	11.49	11.05	11.50	13.96	11.90	18.76	60.6	13.42	7.31	12.13	11.84	8.50	25.59	18.27	12.41	28.56	31.93	9.32	11.89	10.04	19.20	11.90	17.01	11.49	17.33	13.65	17.26	13.46	13.41	11.09	14.72	16.98	19.69	11.60	7.92	10.28	11.38	13.14	17.90	15.65	19.29
207Pb/206Pb ratio	0.0762	0.0422	0.0966	0.0683	0.0519	0.1413	0.2038	0.0678	0.0689	0.0982	0.1329	0.0449	0.1061	0.1058	0.0521	0.1256	0.0501	0.0418	0.0418	0.0316	0.0915	0.0523	0.0460	0.0517	0.0587	0.0499	0.0583	0.0569	0.0492	0.0696	0.0465	0.0477	0.0496	0.0412	0.0496	0.0750	0.0523	0.0496	0.0479	0.0827	0.0463	0.0501	0.0523	0.0452	0.0360
1s%	1.91	4.23	4.18	2.52	2.64	4.27	3.54	3.55	3.11	4.56	3.19	2.87	2.38	3.26	2.73	2.95	6.22	3.74	2.57	4.97	10.34	2.19	2.58	2.33	4.63	2.68	4.09	2.75	3.82	3.59	3.71	2.93	3.02	2.62	3.36	4.65	4.45	2.61	1.81	2.90	2.48	2.96	4.27	3.39	3.73
238U/206Pb ratio	248.25	249.39	243.36	240.74	263.79	242.38	195.36	248.47	259.14	253.57	212.17	255.10	261.86	237.11	271.67	231.64	242.68	255.91	254.46	251.14	230.48	249.95	251.64	247.68	262.80	267.04	265.17	258.59	268.63	250.28	259.39	254.76	251.11	253.26	277.77	260.23	257.94	259.77	263.68	278.12	265.13	274.56	242.80	251.30	247.49
2s%	4.14		10.57	5.61	6.73	9.62	10.66	7.74	7.04	11.08	7.36		5.55	79.7	2.67	6.73	13.46				24.61	4.61		4.89	9.71	2.57	9.93	5.75	7.97	8.19		6.12	09.9		6.94	9.78	9.38	6.16	3.84	6.25		6.16	8.59		
206Pb/238U Age	25.01		24.70	26.06	24.43	23.42	26.67	25.30	24.24	23.81	27.08		22.76	24.98	23.50	24.99	26.47				26.64	25.56		25.80	24.07	23.98	23.80	24.54	23.78	24.87		25.35	25.54		23.26	24.01	25.33	24.65	24.39	22.14		23.41	26.56		
2s%	4.1	10.5	10.6	5.6	6.7	9.6	10.7	7.7	7.0	11.1	7.4	5.9	5.5	7.7	2.7	6.7	13.5	7.5	5.4	10.1	24.6	4.6	5.2	4.9	9.7	5.6	6.6	5.7	8.0	8.2	7.7	6.1	9.9	2.7	6.9	8.6	9.4	6.2	3.8		5.4	6.2	9.8	8.9	7.7
Pref Age Ma	25.0	26.3	24.7	26.1	24.4	23.4	26.7	25.3	24.2	23.8	27.1	25.3	22.8	25.0	23.5	25.0	26.5	25.2	25.3	25.7	26.6	25.6	25.6	25.8	24.1	24.0	23.8	24.5	23.8	24.9	24.7	25.3	25.5	25.5	23.3	24.0	25.3	24.7	24.4		24.3	23.4	26.6	25.7	26.0
Analysis ID	SINA-04_z_26	SINA-04_z_27	SINA-04_z_28	SINA-04_z_29	SINA-04_z_3	SINA-04_z_31	SINA-04_z_33	SINA-04_z_34	SINA-04_z_35	SINA-04_z_36	SINA-04_z_37	SINA-04_z_4	SINA-04_z_5	SINA-04_z_6	SINA-04_z_7	SINA-04_z_8	SINA-04_z_9	SINA-05_z_1	SINA-05_z_10	SINA-05_z_11	SINA-05_z_12	SINA-05_z_13	SINA-05_z_15	SINA-05_z_16	SINA-05_z_17	SINA-05_z_18	SINA-05_z_19	SINA-05_z_2	SINA-05_z_20	SINA-05_z_21	SINA-05_z_22	SINA-05_z_23	SINA-05_z_24	SINA-05_z_25	SINA-05_z_26	SINA-05_z_27	SINA-05_z_28	SINA-05_z_29	SINA-05_z_3	SINA-05_z_30	SINA-05_z_31	SINA-05_z_32	SINA-05_z_33	SINA-05_z_34	SINA-05_z_35

Appendix B: Eastern Sunda arc geochronology data - zircon

	2s%	17.34	33.27	19.51	25.23	25.75	27.22	8.44	22.21	24.88	13.93	18.17	12.11	16.36	29.34	53.17	15.59	39.99	50.34	21.83	22.48	32.15	21.49	54.87	25.58	28.99	25.46	25.01	24.84	39.67	30.18	67.12	19.43	20.44	32.48	20.37	34.43	40.67	76.38	23.80	35.27	34.41	18.37	35.45	42.69	34.39
	208Pb/232Th Age (Ma)	29.17	24.18	178.98	35.20	32.04	24.18	23.06	25.00	65.66	24.20	32.58	27.97	24.37	32.81	16.02	25.51	12.05	8.95	13.51	109.72	70.95	20.07	< DΓ	14.00	73.82	12.87	14.96	23.34	19.02	16.70	< DL	17.80	307.74	22.82	15.65	16.66	18.82	< DΓ	13.62	14.21	63.40	15.66	32.16	15.49	52.76
	2s%	22.46	33.43	14.16	39.89	25.35	23.11	12.16	22.68	27.09	19.33	19.24	17.63	19.15	46.05	45.16	20.26	50.68	59.45	27.93	22.60	36.88	38.54	59.47	32.08	47.01	34.35	28.26	47.31	54.16	55.52	29.08	27.04	21.98	59.32	31.16	41.60	54.98	84.44	30.53	54.54	36.48	28.44	50.51	53.98	39.80
	207Pb/235U(calc) Age (Ma)	25.43	25.05	149.29	16.61	32.61	29.40	23.08	27.77	61.81	22.88	40.02	30.14	25.26	16.93	26.49	27.25	< DL	< DL	14.28	206.62	74.57	19.82	< DL	17.53	37.25	12.93	16.85	12.34	17.98	< DF	< DL	14.03	271.42	< DL	13.14	14.23	< DL	< DF	15.22	13.76	80.56	13.67	< DF	< DF	50.20
	2s%	5.61	7.33	6.91	8.70	6.54	5.54	3.38	5.45	8.72	4.39	5.30	4.32	4.40	8.00	10.27	4.50	10.45	10.47	6.30	15.08	16.53	9.92	13.77	8.08	14.15	7.06	6.51	9.52	12.43	9.21	13.51	6.01	15.94	10.01	7.14	10.94	10.84	15.54	7.00	12.43	20.03	6.92	12.35	13.56	14.97
	206Pb/238U Age (Ma)	24.94	25.21	32.81	24.63	24.07	25.52	23.54	24.62	28.84	24.00	25.75	26.00	26.68	24.86	26.26	30.68	14.48	14.12	15.34	25.94	18.10	14.51	15.36	13.51	19.56	15.08	15.44	14.83	15.92	13.82	14.14	14.13	32.09	15.02	13.89	14.86	14.97	14.42	14.44	15.59	18.08	13.97	17.20	15.30	17.17
	1s%	8.67	16.64	9.75	12.61	12.88	13.61	4.22	11.10	12.44	96.9	90.6	6.05	8.18	14.67	26.58	7.79	19.99	25.17	10.92	11.24	16.07	10.74	27.43	12.79	14.50	12.73	12.51	12.42	19.84	15.09	33.56	9.72	10.22	16.24	10.19	17.21	20.33	38.19	11.90	17.64	17.20	9.19	17.73	21.34	17.20
	208Pb/232Th ratio	0.00144	0.00119	0.00887	0.00174	0.00158	0.00119	0.00114	0.00123	0.00324	0.00119	0.00161	0.00138	0.00120	0.00162	0.00079	0.00126	0.00059	0.00044	0.00067	0.00543	0.00351	0.00099	^ <u>Р</u>	0.00069	0.00365	0.00064	0.00074	0.00115	0.00094	0.00082	< DL	0.00088	0.01530	0.00113	0.00077	0.00082	0.00093	< PL	0.00067	0.00070	0.00313	0.00077	0.00159	0.00076	0.00261
•	18%	2.80	3.67	3.45	4.35	3.27	2.77	1.69	2.71	4.36	2.20	2.65	2.16	2.20	4.00	5.13	2.25	5.23	5.23	3.15	7.54	8.26	4.96	6.88	4.04	7.07	3.53	3.26	4.76	6.21	4.61	92.9	3.00	7.97	5.00	3.57	5.47	5.45	77.7	3.50	6.21	10.02	3.46	6.18	6.78	7.49
	206Pb/238U ratio	0.0039	0.0039	0.0051	0.0038	0.0037	0.0040	0.0037	0.0038	0.0045	0.0037	0.0040	0.0040	0.0041	0.0039	0.0041	0.0048	0.0022	0.0022	0.0024	0.0040	0.0028	0.0023	0.0024	0.0021	0.0030	0.0023	0.0024	0.0023	0.0025	0.0021	0.0022	0.0022	0.0050	0.0023	0.0022	0.0023	0.0023	0.0022	0.0022	0.0024	0.0028	0.0022	0.0027	0.0024	0.0027
	18%	11.23	16.72	7.08	19.94	12.68	11.56	90.9	11.34	13.54	9.67	9.62	8.82	9.58	23.02	22.58	10.13	25.34	29.71	13.96	11.30	18.44	19.27	29.73	16.04	23.50	17.18	14.13	23.65	27.08	27.76	29.54	13.52	10.99	29.66	15.58	20.80	27.49	42.22	15.26	27.27	18.24	14.22	25.25	26.99	19.90
	207Pb/235U (calc) ratio	0.0254	0.0250	0.1584	0.0165	0.0326	0.0294	0.0230	0.0277	0.0628	0.0228	0.0402	0.0301	0.0252	0.0168	0.0264	0.0272	^ DL	< DL	0.0142	0.2257	0.0762	0.0197	< DL	0.0174	0.0374	0.0128	0.0167	0.0122	0.0179	< DL	< DL	0.0139	0.3064	< DL	0.0130	0.0141	< DL	∨ DΓ	0.0151	0.0136	0.0826	0.0136	< DL	∨ DF	0.0507
	1s%	11.32	16.98	7.71	20.21	13.01	11.79	6.07	11.56	14.15	9.79	9.87	8.95	9.59	23.34	23.06	10.15	25.75	30.13	14.20	13.34	20.08	19.78	30.44	16.40	24.49	17.47	14.43	24.08	27.74	28.08	30.27	13.77	13.14	30.04	15.87	21.22	27.98	42.90	15.58	27.78	20.00	14.48	25.95	27.56	21.15
	207Pb/206Pb ratio	0.0471	0.0457	0.2260	0.0309	0.0641	0.0546	0.0458	0.0532	0.1008	0.0452	0.0723	0.0552	0.0446	0.0308	0.0461	0.0417	0.0400	0.0400	0.0434	0.4109	0.1982	0.0640	0.0400	0.0607	0.0890	0.0403	0.0511	0.0394	0.0516	0.0400	0.0400	0.0463	0.4487	0.0400	0.0447	0.0447	0.0400	0.0400	0.0492	0.0399	0.2074	0.0450	0.0400	0.0400	0.1392
	1s%	2.57	3.69	3.39	3.58	3.28	2.77	1.42	2.69	4.34	2.13	2.65	2.15	2.19	4.12	4.84	2.22	4.81	5.66	2.98	7.26	8.26	4.99	6.90	4.04	7.09	3.51	3.28	4.73	7.23	4.51	6.81	2.96	7.39	5.00	3.36	4.46	5.47	7.81	3.46	5.49	8.28	3.09	6.19	7.32	7.46
	238U/206Pb ratio	258.17	255.53	195.34	261.54	268.49	252.45	273.55	262.29	222.59	268.17	250.33	248.36	240.82	261.63	246.15	210.81	446.94	455.20	419.98	247.96	356.35	446.95	420.33	476.56	331.63	428.92	418.90	437.39	405.39	466.69	455.94	454.89	200.69	428.78	465.59	432.31	433.87	446.34	445.83	409.96	352.27	460.13	376.32	420.67	378.35
	2s%	5.76		8.97		6.88	5.77		5.63	9.53		5.61	4.49								29.86	20.69	10.44		8.47	15.29		6.77		12.94				34.31						7.26		23.97				17.18
	206Pb/238U Age	24.92		25.38		23.54	25.26		24.42	26.87		24.91	25.72								14.00	14.63	14.19		13.27	18.51		15.35		15.82				15.79						14.39		14.40				15.16
	2s%	5.8	7.3	9.0	8.7	6.9	5.8	3.4	5.6	9.5	4.4	5.6	4.5	4.4	8.0	10.3	4.5	10.5	10.5	6.3	29.9	20.7	10.4	13.8	8.5	15.3	7.1	6.8	9.5	12.9	9.5	13.5	0.9	34.3	10.0	7.1	10.9	10.8	15.5	7.3	12.4	24.0	6.9	12.4	13.6	17.2
	Pref Age Ma	24.9	25.2	25.4	24.6	23.5	25.3	23.5	24.4	26.9	24.0	24.9	25.7	26.7	24.9	26.3	30.7	14.5	14.1	15.3	14.0	14.6	14.2	15.4	13.3	18.5	15.1	15.3	14.8	15.8	13.8	14.1	14.1	15.8	15.0	13.9	14.9	15.0	14.4	14.4	15.6	14.4	14.0	17.2	15.3	15.2
	Analysis ID	SINA-05_z_36	SINA-05_z_37	SINA-05_z_38	SINA-05_z_39	SINA-05_z_4	SINA-05_z_40	SINA-05_z_41	SINA-05_z_5	SINA-05_z_6	SINA-05_z_7	SINA-05_z_8	SINA-05_z_9	SING-01_z_1	SING-01_z_2	SING-01_z_3	SING-01_z_4	SING-02_z_1	SING-02_z_10	SING-02_z_11	SING-02_z_12	SING-02_z_13	SING-02_z_14	SING-02_z_15	SING-02_z_16	SING-02_z_17	SING-02_z_18	SING-02_z_19	SING-02_z_2	SING-02_z_20	SING-02_z_21	SING-02_z_22	SING-02_z_23	SING-02_z_24	SING-02_z_25	SING-02_z_26	SING-02_z_27	SING-02_z_28	SING-02_z_29	SING-02_z_3	SING-02_z_30	SING-02_z_31	SING-02_z_4	SING-02_z_5	SING-02_z_6	SING-02_z_7

Appendix B: Eastern Sunda arc geochronology data - zircon

Appendix B: Eastern Sunda arc geochronology data - zircon

Analysis ID	Pref Age Ma	2s%	206Pb/238U Age	2s%	238U/206Pb ratio	18%	207Pb/206Pb ratio	1s%	207Pb/235U (calc) ratio	18%	206Pb/238U ratio	18%	208Pb/232Th ratio	1s%	206Pb/238U Age (Ma)	2s%	207Pb/235U(calc) Age (Ma)	2s%	208Pb/232Th Age (Ma)	2s%
TR-04_z_17	24.9	5.5	24.89	5.54	256.54	2.67	0.0503	11.79	0.0267	11.58	0.0039	2.67	0.00119	9.92	25.01	5.34	26.76	23.15	24.01	19.85
TR-04_z_18	22.9	7.2	22.85	7.24	267.82	3.07	0.0878	10.42	0.0446	10.07	0.0037	3.41	0.00188	96.6	24.11	6.82	44.33	20.14	38.11	19.93
TR-04_z_19	25.9	9.9			251.43	3.24	0.0456	15.07	0.0250	14.80	0.0040	3.28	0.00135	11.99	25.87	6.56	25.02	29.59	27.29	23.98
TR-04_z_2	24.5	8.0	24.51	8.01	262.85	3.94	0.0480	17.47	0.0252	17.17	0.0038	3.87	0.00115	13.65	24.56	7.74	25.30	34.35	23.23	27.30
TR-04_z_20	23.7	7.8			274.17	3.94	0.0406	19.25	0.0208	18.96	0.0037	3.92	0.00138	10.74	23.72	7.85	20.86	37.92	27.92	21.47
TR-04_z_21	24.9	14.4			261.98	6.83	0.0400	29.27	< DL	28.55	0.0039	7.21	0.00287	20.06	24.85	14.41	< DL	57.11	58.01	40.12
TR-04_z_22	26.2	12.8	26.17	12.84	231.13	5.90	0.0950	19.68	0.0571	18.91	0.0043	5.91	0.00223	16.09	27.87	11.83	56.35	37.81	45.25	32.19
TR-04_z_23	23.6	13.4	23.56	13.38	269.99	6.15	0.0511	27.55	0.0251	26.90	0.0037	6.45	0.00158	18.93	23.70	12.91	25.18	53.81	32.04	37.86
TR-04_z_24	25.3	7.8	25.27	7.76	254.43	3.43	0.0477	15.63	0.0257	15.33	0.0039	3.77	0.00198	12.94	25.31	7.54	25.74	30.66	40.18	25.87
TR-04_z_25	24.2	8.8	24.18	8.81	261.48	3.92	0.0606	15.96	0.0319	15.55	0.0038	4.23	0.00178	13.65	24.62	8.46	31.84	31.10	36.01	27.31
TR-04_z_26	23.5	5.9			274.63	2.85	0.0438	13.42			0.0037	2.97	0.00140	10.85	23.55	5.93	0.00		28.26	21.69
TR-04_z_27	21.3	7.8	21.32	7.84	302.07	3.80	0.0504	16.90	0.0224	16.54	0.0033	3.77	0.00123	13.21	21.43	7.54	22.47	33.08	24.91	26.42
TR-04_z_28	21.5	4.6			300.33	2.31	0.0450	10.66	0.0203	10.51	0.0033	2.31	0.00116	7.56	21.52	4.61	20.38	21.02	23.55	15.12
TR-04_z_29	23.2	6.5			277.39	3.16	0.0435	15.06	0.0215	14.80	0.0036	3.27	0.00137	11.65	23.25	6.54	21.64	29.61	27.83	23.30
TR-04_z_3	25.0	6.3	24.99	6.28	257.24	3.02	0.0478	13.45	0.0258	13.28	0.0039	3.04	0.00124	9.28	25.03	6.07	25.90	26.56	25.17	18.55
TR-04_z_30	23.7	7.3			273.36	3.44	0.0444	16.28	0.0221	15.98	0.0037	3.66	0.00179	10.31	23.65	7.33	22.16	31.97	36.21	20.62
TR-04_z_31	24.0	12.5	23.96	12.52	254.28	5.78	0.0947	19.25	0.0521	18.49	0.0040	5.77	0.00164	17.76	25.51	11.53	51.53	36.98	33.21	35.52
TR-04_z_32	24.5	9.6	24.47	9.56	263.58	4.61	0.0524	20.09	0.0278	19.68	0.0038	4.60	0.00181	15.96	24.66	9.19	27.84	39.36	36.57	31.92
TR-04_z_33	22.8	5.9			283.32	2.95	0.0459	13.68	0.0224	13.44	0.0035	2.95	0.00107	12.98	22.79	5.90	22.49	26.89	21.66	25.96
TR-04_z_34	23.5	11.2	23.48	11.15	269.41	5.01	0.0640	19.95	0.0331	19.43	0.0037	5.33	0.00215	13.88	24.01	10.67	33.05	38.86	43.45	27.76
TR-04_z_4	24.4	15.0	24.38	15.02	256.56	7.11	0.0631	28.83	0.0341	28.03	0.0039	7.14	0.00166	24.73	24.90	14.29	34.02	56.05	33.52	49.45
TR-04_z_5	22.6	5.6	22.64	5.59	285.58	2.66	0.0466	12.17	0.0224	11.97	0.0035	2.70	0.00130	8.70	22.64	5.41	22.45	23.94	26.33	17.41
TR-04_z_6	26.2	9.8	26.18	9.80	247.18	4.18	0.0576	17.78	0.0327	17.39	0.0041	4.73	0.00207	9.88	26.55	9.46	32.66	34.79	42.01	19.76
TR-04_z_7	8.1	18.1			775.93	8.95	0.0400	28.19	< DL	26.77	0.0013	90.6	0.00084	23.03	8.11	18.12	V DL	53.55	17.05	46.06
TR-04_z_8	23.9	8.2	23.89	8.22	269.66	3.97	0.0486	17.85	0.0251	17.54	0.0037	3.97	0.00155	13.27	23.95	7.93	25.20	35.07	31.32	26.55
TR-04_z_9	23.1	22.7	23.11	22.72	237.99	10.30	0.1429	27.55	0.0813	25.83		98.6	> DL	63.96	26.32	19.71	79.38	51.67	¬D >	127.92
UG012183_z_1	4.1	25.1			1572.91	12.51	0.0400	49.36	< DL	47.79		12.55	< DL	34.42	4.07	25.09	<dl <<="" td=""><td>95.57</td><td>&lt; DL</td><td>68.84</td></dl>	95.57	< DL	68.84
UG012183_z_2	4.1	23.7			1582.96	11.86	0.0400	31.67	< DL	29.46	0.0006	11.83	0.00089	20.25	4.10	23.66	V DL	58.95	18.03	40.49
UG012183_z_3	4.4	24.7			1468.21	12.27	0.0400	34.32	< DL	32.09		12.35	< DL	70.07	4.41	24.70	< DL	64.19	< DL	140.14
UG012183_z_4	5.5	29.2			1181.38	14.84	0.0400	40.41	< DL	37.76		14.61	0.00171	19.22	5.46	29.21	YD >	75.53	34.57	38.44
UG012183_z_5	4.3	15.2			1538.03	7.62	0.0400	30.93	√ DF	30.06		7.58	0.00015	25.09	4.27	15.15	¬D >	60.12	2.95	50.17
UG012183_z_6	4.8	26.5			1344.83	13.17	0.0400	46.01	√ DΓ	44.11		13.26	> DL	37.98	4.83	26.52	¬D >	88.21	¬D >	75.96
UG012185_z_1	6.3	34.5	6.29	34.52	492.20	7.09	0.4615	12.27	0.1336	10.23	0.0021	8.24	0.00386	9.51	13.24	16.49	127.30	20.45	78.12	19.03
UG012185_z_10	4.6	7.1.7	4.61	71.70	187.93	3.30	0.7320	5.02	0.5309	4.74	0.0054	3.73	0.01624	5.14	34.46	7.45	432.41	9.49	326.60	10.27
UG012185_z_11	4.1	14.7			1568.49	7.37	0.0400	25.93	∨ DΓ	24.91	0.0006	7.37	0.00034	22.81	4.10	14.75	¬DГ >	49.81	66.9	45.62
UG012185_z_12	3.8	11.1	3.83	11.07	1668.48	5.64	0.0527	20.45	0.0043	19.97	0.0006	5.36	0.00018	15.12	3.86	10.72	4.38	39.94	3.67	30.25
UG012185_z_14	3.9	25.7	3.86	25.68	1273.72	9.60	0.2278	22.39	0.0241	20.23	0.0008	9.71	0.00118	17.99	5.02	19.43	24.19	40.46	23.97	35.98
UG012185_z_15	6.3	34.5	6.25	34.50	848.85	14.65	0.1746	36.75	0.0280	33.91		14.27	0.00204	23.25	7.47	28.53	28.03	67.83	41.24	46.49
UG012185_z_16	4.0	28.5	4.01	28.54	809.90	6.40	0.4396	11.46	0.0734	9.63	0.0012	6.39	0.00245	9.26	7.99	12.77	71.90	19.26	49.57	18.53
UG012185_z_17	4.4	11.1	4.38	11.07	1447.55	5.31	0.0550	22.92	0.0051	22.35	0.0007	5.30	0.00016	18.24	4.43	10.59	5.18	44.70	3.26	36.49
UG012185_z_18	4.3	10.1			1494.25	5.69	0.0400	24.02	√ DF	23.53	0.0007	90'9	0.00029	15.16	4.31	10.13	< DL	47.06	5.79	30.33
UG012185_z_19	4.1	12.5			1585.07	6.25	0.0400	28.26	√ DΓ	27.60	0.0006	6.25	0.00024	22.65	4.06	12.49	V DF	55.19	4.76	45.30
UG012185_z_2	4.2	18.6			1523.11	9.31	0.0400	25.95	√ DΓ	24.27	0.0007	9.31	< DL	49.59	4.24	18.61	<dl></dl>	48.54	< DL	99.18
UG012185_z_20	4.0	18.7			1599.35	9.32	0.0400	35.57	< DL	34.35	9000:0	9.35	0.00073	21.32	4.00	18.70	< DL	68.71	14.82	42.63
UG012185_z_21	4.5	15.1			1448.25	7.56	0.0400	25.81	¬ oг	24.72	0.0007	7.57	> DL	26.33	4.48	15.14	N P P	49.43	¬D >	52.67

Appendix B: Eastern Sunda arc geochronology data - zircon

	2s%	13.19	49.30	39.50	39.17	39.47	99.09	41.95	26.88	26.77	40.08	44.93	68.52	28.65	31.63	92.59	96.39	44.68	40.02	32.56	38.95	31.03	31.66	65.00	106.20	40.67	67.79	69.15	65.75	93.96	63.83	80.03	56.25	37.68	32.44	30.10	28.99	50.88	26.66	53.60	22.78	20.86	35.77	30.54	16.94	36.91
	208Pb/232Th Age (Ma)	91.43	08.9	12.35	5.46	8.87	98.9	6.47	4.99	34.97	4.75	8.76	< DL	12.37	5.11	< DL	< DL	5.74	9.08	8.37	4.45	28.28	62.46	< DL	< DL 1	18.43	< DL	17.09	7.12	7.56	18.63	23.13	6.16	8.94	19.00	240.21	98.6	9.50	15.10	6.34						
		7	22	4	2	0	23	22	0	6	0.	4	23	<b>8</b> 2	9	6	69	9	<u> </u>	69	01	69	2	Ξ	2	21	4	69	21	25	Σ.	00	4	_		25	0	23	33	0	4	0	69	œ	90	80
	2s%	12.77	42.85	85.54	47.12		63.23	52.55	33.10	23.29	51.20	75.84	235.53	27.68	37.16	66.19	92.59	45.16	47.61	47.59	40.40	32.69	35.15	74.91	46.92	38.97	58.84	136.89		50.37		122.00	108.44	76.11		39.51	32.10	65.22	41.93	105.40	31.94	17.30	66.89	31.78		. 66.28
	207Pb/235U(calc) Age (Ma)	145.12	13.18	< DI	8.51	8.87	_ > DL	70 >	8.40	64.04	_ > DL	_ > DL	_ > DL	27.52	7.74	^ DL	V DF	< DL	~ DF	- DI	6.49	42.90	54.06	^ DL	< DL	21.26	N	_ > DL	N	87.78	_ > DL	- DI	^ DL	- DI	0.00	7.22	26.30	22.59	12.57	< DL	21.76	263.50	^ DL	16.82	25.67	< DL
	2s%	13.49	14.81	18.08	13.37	14.34	15.14	13.70	10.53	14.04	11.62	18.90	20.82	12.44	11.11	19.71	16.82	12.72	14.22	12.53	11.03	16.38	19.22	24.83	20.87	16.87	11.97	23.97	16.89	37.40	19.20	18.53	13.95	18.17	12.02	11.16	15.97	27.48	16.26	21.58	13.13	14.87	17.69	12.76	9.33	11.59
	206Pb/238U Age (Ma)	13.40	5.24	3.56	5.03	4.49	4.35	4.34	4.38	8.70	4.20	4.62	4.77	6.57	4.13	4.01	4.97	4.22	5.44	4.09	4.11	8.53	8.50	3.83	00.9	5.42	4.99	4.00	4.56	7.80	4.12	4.46	4.48	4.85	4.42	4.33	2.00	5.85	3.97	3.88	6.77	21.01	4.63	4.91	5.65	4.24
	18%	6.59	24.65	19.75	19.59	19.74	25.34	20.97	13.44	13.39	20.04	22.47	34.26	14.33	15.82	32.78	27.98	22.34	20.01	16.28	19.48	15.51	15.83	32.50	53.10	20.33	28.90	34.58	32.87	46.98	31.91	40.01	28.13	18.84	16.22	15.05	14.49	25.44	13.33	26.80	11.39	10.43	17.88	15.27	8.47	18.46
)	208Pb/232Th ratio	0.00452	0.00034	0.00061	0.00027	0.00044	0.00034	0.00032	0.00025	0.00173	0.00023	0.00043	< DL	0.00061	0.00025	< DL	< DL	0.00028	0.00045	0.00041	0.00022	0.00140	0.00309	< DL	< DL	0.00091	< DL	<b>~</b> DΓ	< DL	< DL	<b>→</b> DF	< DL	< DL	0.00084	0.00035	0.00037	0.00092	0.00114	0:00030	0.00044	0.00094	0.01192	0.00049	0.00047	0.00075	0.00031
	18%	6.75	7.41	9.04	69.9	7.17	7.57	6.85	5.27	7.02	5.81	9.45	10.41	6.22	5.55	9.85	8.41	6.36	7.11	6.26	5.52	8.19	9.61	12.41	10.44	8.43	5.99	11.99	8.45	18.70	9.60	9.27	6.97	9.08	6.01	5.58	7.99	13.74	8.13	10.79	6.56	7.43	8.85	6.38	4.66	5.79
)	206Pb/238U ratio	0.0021	0.0008	9000:0	0.0008	0.0007	0.0007	0.0007	0.0007	0.0013	0.0007	0.0007	0.0007	0.0010	9000:0	90000	0.0008	0.0007	0.0008	0.0006	9000:0	0.0013	0.0013	90000	0.0009	0.0008	0.0008	0.0006	0.0007	0.0012	0.0006	0.0007	0.0007	0.0008	0.0007	0.0007	0.0008	0.0009	90000	90000	0.0011	0.0033	0.0007	0.0008	0.0009	0.0007
	1s%	6.38	21.42	42.77	23.56	23.50	31.61	26.28	16.55	11.64	25.60	37.92	117.77	13.84	18.58	33.10	46.29	22.58	23.81	23.79	20.20	16.34	17.57	37.45	23.46	19.49	29.42	68.44	28.23	25.19	48.11	61.00	54.22	38.05		19.76	16.05	32.61	20.97	52.70	15.97	8.65	33.45	15.89	10.03	33.14
	207Pb/235U (calc) ratio	0.1536	0.0131	< DL	0.0084	0.0088	< DL	< DL	0.0083	0.0651	< DL	< DL	< DL	0.0275	0.0076	< DL	0.0064	0.0432	0.0547	< DL	< DL	0.0212	< DL	> DL	< DL	0.0903	< DL	< DL	< DL	< DL		0.0071	0.0262	0.0225	0.0125	< DL	0.0217	0.2963	< DL	0.0167	0.0256	< DL				
	18%	7.73	22.62	43.69	24.44	24.53	32.47	27.12	17.24	13.43	26.21	38.99	118.20	15.10	19.34	34.47	47.01	23.41	24.80	24.56	20.89	18.18	19.98	39.43	25.59	21.18	29.98	69.47	29.43	31.30	49.03	61.68	54.65	39.09	21.44	20.48	17.80	35.35	22.44	53.78	17.07	8.95	34.53	17.00	10.96	33.61
	207Pb/206Pb ratio	0.5287	0.1176	0.0400	0.0790	0.0925	0.0400	0.0400	0.0906	0.3446	0.0400	0.0400	0.0400	0.1996	0.0877	0.0400	0.0400	0.0400	0.0400	0.0400	0.0731	0.2438	0.2963	0.0400	0.0400	0.1847	0.0400	0.0400	0.0400	0.5489	0.0400	0.0400	0.0400	0.0400	0.0835	0.0783	0.2455	0.1749	0.1481	0.0400	0.1489	0.6511	0.0400	0.1592	0.2137	0.0400
1	18%	6.52	7.39	9.04	7.14	7.22	7.59	6.88	5.04	6.85	5.81	9.21	10.26	6.22	5.55	16.45	8.44	6.35	7.10	6.26	5.51	10.64	9.65	12.45	10.35	8.42	5.98	12.10	8.41	18.64	9.62	9.27	7.04	90.6	6.02	10.45	7.97	13.70	8.32	11.11	6.24	7.00	8.86	6.40	4.63	5.79
	238U/206Pb ratio	478.31	1224.44	1808.01	1279.11	1439.83	1475.91	1495.98	1480.32	742.91	1537.39	1392.79	1345.75	981.00	1562.38	1618.56	1303.83	1518.68	1184.86	1573.08	1568.52	758.83	768.54	1697.70	1064.67	1188.58	1291.63	1642.30	1403.19	846.75	1574.09	1445.46	1452.25	1320.07	1466.00	1496.54	1304.37	1092.80	1652.12	1671.25	968.29	306.54	1395.81	1319.87	1142.99	1519.82
	2s%	30.04	16.56		14.31	15.59			11.34	23.53				15.64	11.99						11.73	22.20	29.17			20.71				125.42					12.93	11.93	21.79	33.24	18.91		15.07	64.98		15.06	12.00	
	206Pb/238U Age	5.22	4.76		4.83	4.23			4.13	5.41				5.30	3.91						3.97	6.39	5.81			4.47				2.84					4.21	4.15	3.74	4.90	3.46		5.89	4.94		4.21	4.45	
	2s%	30.0	16.6	18.1	14.3	15.6	15.1	13.7	11.3	23.5	11.6	18.9	20.8	15.6	12.0	19.7	16.8	12.7	14.2	12.5	11.7	22.2	29.2	24.8	20.9	20.7	12.0	24.0	16.9	125.4	19.2	18.5	13.9	18.2	12.9	11.9	21.8	33.2	18.9	21.6	15.1	65.0	17.7	15.1	12.0	11.6
	Pref Age Ma	5.2	4.8	3.6	4.8	4.2	4.4	4.3	4.1	5.4	4.2	4.6	4.8	5.3	3.9	4.0	5.0	4.2	5.4	1.4	4.0	6.4	5.8	3.8	0.9	4.5	5.0	4.0	4.6	2.8	4.1	4.5	4.5	4.9	4.2	4.2	3.7	4.9	3.5	3.9	5.9	4.9	4.6	4.2	4.5	4.2
	Analysis ID	UG012185_z_22	UG012185_z_23	UG012185_z_24	UG012185_z_25	UG012185_z_26	UG012185_z_27	UG012185_z_3	UG012185_z_4	UG012185_z_5	UG012185_z_6	UG012185_z_7	UG012185_z_8	UG012185_z_9	UG012187_z_1	UG012187_z_10	UG012187_z_11	UG012187_z_12	UG012187_z_13	UG012187_z_14	UG012187_z_15	UG012187_z_16	UG012187_z_17	UG012187_z_18	UG012187_z_19	UG012187_z_2	UG012187_z_3	UG012187_z_4	UG012187_z_5	UG012187_z_6	UG012187_z_7	UG012187_z_8	UG012187_z_9	UG012188_z_1	UG012188_z_10	UG012188_z_11	UG012188_z_12	UG012188_z_13	UG012188_z_14	UG012188_z_15	UG012188_z_16	UG012188_z_17	UG012188_z_18	UG012188_z_19	UG012188_z_2	UG012188_z_20

Appendix B: Eastern Sunda arc geochronology data - zircon

	2s%	34.53	36.91	37.56	37.47	28.67	34.96	26.23	37.65	21.90	37.00	38.49	50.84	13.77	83.43	164.01	134.79	45.84	103.65	70.35	55.47	29.29	34.1	25.38	66.37	33.42	68.6	24.10	12.99	26.47	28.55	25.55	19.15	19.56	19.18	17.25	25.07	17.41	25.82	36.59	28.49	14.99	45.73	13.25	36.56	15.63
	208Pb/232Th Age (Ma)	7.69	11.87	4.16	22.16	4.79	7.23	5.73	69.9	185.03	93.35	9.86	11.05	207.49	< DF	< DF	< DL	91.40	< DF	< DL	< DL	37.42	10.24	6.05	× □	71.72	1145.26	6.01	9.15	5.31	8.15	8.75	9.80	6.16	6.91	66.72	6.50	7.50	7.70	8.24	9.43	40.12	6.18	6.12	5.21	6.58
	2s% 2	50.18	44.73	70.65	60.49	43.06	46.40	36.67	51.80		36.01	64.68		13.08	102.46	52.96	67.91	44.94	54.93	96.94	49.82	29.13	32.07	48.59	49.04	31.55	8.41		22.36	43.96	75.70	58.10	35.89	53.92	42.05	18.95	61.16	39.66	71.73	89.81	57.12	13.97	66.22	33.34	125.52	
	207Pb/235U(calc) Age (Ma)	< DL	21.86	< DL	< DL	69'2	¬DГ >	7.81	< DL	0.00	119.33	< DΓ	0.00	392.22	< DL	^ DF	< DL	174.20	< DL	¬D¬	< DL	71.42	20.17	4.03	< DL	76.60	1329.48	0.00	18.32	10.45	6.81	8.18	13.85	5.69	6.38	74.52	√ DF	6.48	< DL	< DL	8.62	144.37	√ DF	8.25	¬D >	00:00
	2s%	11.38	21.09	10.37	20.88	12.32	11.85	10.49	11.63	22.55	27.15	15.23	18.83	9.48	24.80	14.25	23.34	30.82	11.86	17.76	14.28	19.39	13.06	11.04	13.72	19.89	7.30	11.05	9.26	13.69	17.12	15.34	10.83	12.35	9.82	7.35	12.64	9.16	15.26	19.87	19.12	9.93	19.75	8.15	12.54	7.87
	206Pb/238U Age (Ma)	4.99	5.64	4.28	4.74	4.41	4.50	4.57	4.83	29.67	10.12	4.62	4.65	30.03	4.75	4.84	5.03	16.57	4.39	4.39	4.25	7.69	5.79	4.37	5.05	10.62	153.40	6.67	6.67	5.18	6.30	6.65	7.50	5.28	5.62	25.56	6.38	6.23	5.95	6.48	5.73	13.98	6.97	6.63	6.42	5.95
	1s%	17.26	18.46	18.78	18.74	14.34	17.48	13.11	18.83	10.95	18.50	19.24	25.42	6.88	41.71	82.01	62.39	22.92	51.83	35.18	27.73	14.65	17.06	12.69	33.18	16.71	4.95	12.05	6.50	13.23	14.28	12.78	9.58	9.78	9.59	8.62	12.54	8.71	12.91	18.29	14.24	7.50	22.87	6.63	18.28	7.81
j	208Pb/232Th ratio	0.00038	0.00059	0.00021	0.00109	0.00024	0.00036	0.00028	0.00033	0.00917	0.00462	0.00049	0.00055	0.01029	∨ DΓ	> DF	< DL	0.00452	∨ DΓ	> DF	< DL	0.00185	0.00051	0.00030	^ Р	0.00354	0.05813	0.00030	0.00045	0.00026	0.00040	0.00043	0.00048	0.00030	0.00034	0.00330	0.00032	0.00037	0.00038	0.00041	0.00047	0.00198	0.00030	0:00030	0.00026	0.00032
	18%	5.69	10.55	5.18	10.44	6.16	5.93	5.24	5.82	11.28	13.58	7.62	9.45	4.74	12.40	7.12	11.67	15.41	5.93	8.88	7.14	9.69	6.53	5.52	98.9	9.94	3.65	5.52	4.63	6.85	8.56	79'2	5.42	6.18	4.91	3.68	6.32	4.58	7.63	9.93	9.56	4.96	9.87	4.07	6.27	3.93
)	206Pb/238U ratio	0.0008	0.0009	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0046	0.0016	0.0007	0.0007	0.0047	0.0007	0.0008	0.0008	0.0026	0.0007	0.0007	0.0007	0.0012	0.0009	0.0007	0.0008	0.0016	0.0241	0.0010	0.0010	0.0008	0.0010	0.0010	0.0012	0.0008	0.0009	0.0040	0.0010	0.0010	0.0009	0.0010	0.0009	0.0022	0.0011	0.0010	0.0010	0.0009
	18%	25.09	22.36	35.32	30.25	21.53	23.20	18.34	25.90		18.01	32.34		6.54	51.23	26.48	33.96	22.47	27.47	48.47	24.91	14.56	16.03	24.29	24.52	15.78	4.20		11.18	21.98	37.85	29.05	17.95	26.96	21.02	9.48	30.58	19.83	35.86	44.90	28.56	96.9	33.11	16.67	62.76	
	207Pb/235U (calc) ratio	< DL	0.0218	<b>~</b> □ <b>L</b>	< DL	0.0076	¬ DF	0.0077	< DL		0.1247	< DL		0.4715	< DΓ	< DL	< DL	0.1872	< DΓ	< DΓ	< DL	0.0729	0.0201	0.0040	<b>~</b> □ <b>L</b>	0.0784	2.7037		0.0182	0.0103	0.0067	0.0081	0.0137	0.0056	0.0063	0.0762	< DL	0.0064	< DL	< DL	0.0085	0.1528	< DL	0.0082	^DF	
	18%	25.69	24.23	35.67	31.97	22.35	23.90	19.01	26.50	9.23	22.50	33.19	41.50	4.58	52.66	27.38	35.86	27.58	28.06	49.25	25.87	17.47	17.25	24.78	25.42	18.26	3.20	19.63	11.81	22.97	38.76	29.85	18.68	27.62	21.54	9.45	31.19	20.27	36.48	45.81	29.51	8.44	34.14	17.10	63.04	13.63
	207Pb/206Pb ratio	0.0400	0.1763	0.0400	0.0400	0.0803	0.0400	0.0800	0.0400	0.5858	0.5653	0.0400	0.0400	0.7329	0.0400	0.0400	0.0400	0.5077	0.0400	0.0400	0.0400	0.4460	0.1638	0.0429	0.0400	0.3460	0.8259	0.0838	0.1297	0.0953	0.0492	0.0578	0.0882	0.0513	0.0532	0.1362	0.0400	0.0489	0.0400	0.0400	0.0693	0.5094	0.0400	0.0580	0.0400	0.0874
	1s%	5.66	9.70	5.31	10.50	6.15	6.51	5.29	6.81	10.73	13.35	7.65	9.39	5.08	12.37	7.14	11.56	16.11	5.93	8.88	7.14	9.77	6.48	5.00	06.90	9.40	3.50	5.53	4.05	6.91	9.23	9.89	5.39	6.18	4.91	3.42	6.32	4.41	6.86	8.91	7.61	4.91	13.52	4.74	6.15	3.93
	238U/206Pb ratio	1294.99	1108.39	1507.57	1372.66	1461.33	1416.48	1419.67	1335.00	213.07	636.61	1387.99	1417.80	213.83	1348.77	1334.05	1260.27	385.76	1468.34	1465.70	1515.61	839.43	1110.61	1465.75	1276.61	598.51	41.56	969.93	969.32	1251.45	1012.15	973.28	861.98	1228.29	1147.98	251.68	1011.94	1039.14	1093.32	06.666	1136.10	459.69	919.54	971.69	1007.95	1082.04
	2s%		24.75			13.20		11.23		48.80	97.82			06.99				90.57				44.46	15.54			32.58	286.30	11.88	10.23	14.91	17.79	15.96	11.69	12.87	10.25	8.21		9.50			19.85	28.31		8.54		8.48
	206Pb/238U Age		4.71			4.22		4.38		9.45	3.47			3.98				06.9				3.80	4.93			6.59	3.82	6.36	5.97	4.85	6.27	6.55	7.10	5.24	5.57	22.66		6.21			5.57	5.79		6.54		5.64
	2s%	11.4	24.8	10.4	20.9	13.2	11.9	11.2	11.6	48.8	97.8	15.2	18.8	6.99	24.8	14.2	23.3	9.06	11.9	17.8	14.3	44.5	15.5	11.0	13.7	32.6	286.3	11.9	10.2	14.9	17.8	16.0	11.7	12.9	10.2	8.2	12.6	9.5	15.3	19.9	19.8	28.3	19.7	8.5	12.5	8.5
	Pref Age Ma	5.0	4.7	4.3	4.7	4.2	4.5	4.4	4.8	9.5	3.5	4.6	4.7	4.0	4.8	4.8	5.0	6.9	4.4	4.4	4.2	3.8	4.9	4.4	5.1	9.9	3.8	6.4	0.9	4.9	6.3	6.5	7.1	5.2	5.6	22.7	6.4	6.2	5.9	6.5	5.6	5.8	7.0	6.5	6.4	5.6
	Analysis ID	UG012188_z_21	UG012188_z_22	UG012188_z_23	UG012188_z_24	UG012188_z_25	UG012188_z_26	UG012188_z_27	UG012188_z_3	UG012188_z_4	UG012188_z_5	UG012188_z_6	UG012188_z_7	UG012188_z_8	UG012188_z_9	UG012189_z_1	UG012189_z_10	UG012189_z_11	UG012189_z_12	UG012189_z_2	UG012189_z_3	UG012189_z_4	UG012189_z_5	UG012189_z_6	UG012189_z_7	UG012189_z_8	UG012189_z_9	UG012191_z_1	UG012191_z_10	UG012191_z_11	UG012191_z_12	UG012191_z_13	UG012191_z_14	UG012191_z_15	UG012191_z_16	UG012191_z_17	UG012191_z_18	UG012191_z_19	UG012191_z_2	UG012191_z_20	UG012191_z_21	UG012191_z_22	UG012191_z_23	UG012191_z_24	UG012191_z_25	UG012191_z_26

Appendix B: Eastern Sunda arc geochronology data - zircon

Analysis ID	Pref Age Ma	2s%	206Pb/238U Age	2s%	238U/206Pb ratio	1s%	207Pb/206Pb ratio	18%	207Pb/235U (calc) ratio	18%	206Pb/238U ratio	18%	208Pb/232Th ratio	18%	206Pb/238U Age (Ma)	2s%	207Pb/235U(calc) Age (Ma)	2s%	208Pb/232Th Age (Ma)	28%
UG012191_z_27	6.1	9.2	90.9	9.21	1055.23	3.91	0.0581	16.47			0.0010	4.44	0.00033	7.04	6.15	8.87	00:00		09:9	14.08
UG012191_z_28	5.4	16.1	5.39	16.08	1089.22	7.74	0.1209	20.54	0.0152	19.44	0.0009	7.25	0.00045	12.91	5.96	14.51	15.31	38.87	9.07	25.82
UG012191_z_29	4.8	18.4	4.81	18.35	1142.16	7.70	0.1663	20.18	0.0199	18.71	0.0009	69.7	0.00046	15.12	5.67	15.37	19.97	37.43	9:36	30.24
UG012191_z_3	6.1	16.9			1053.37	8.40	0.0400	29.97	∨ DF	28.80	0.0009	8.43	0.00028	25.71	6.08	16.86	< DL	57.61	5.61	51.43
UG012191_z_30	0.9	16.4	5.99	16.40	991.22	7.39	0.1146	22.87	0.0159	21.69	0.0010	7.35	0.00036	20.64	6.56	14.71	16.03	43.38	7.24	41.27
UG012191_z_31	5.8	11.6	5.82	11.61	849.01	4.31	0.2298	9.82	0.0367	8.94	0.0012	4.44	0.00062	8.02	7.59	8.89	36.62	17.88	12.52	16.04
UG012191_z_32	7.5	19.3			857.39	99.6	0.0400	35.25	< DL	33.93	0.0012	99.6	0.00038	20.67	7.51	19.31	< DF	67.87	7.66	41.34
UG012191_z_33	6.9	18.3	6.89	18.34	801.53	7.80	0.1646	20.28	0.0288	18.83	0.0013	7.71	0.00103	14.38	8.11	15.41	28.79	37.65	20.95	28.76
UG012191_z_4	5.9	10.9	5.86	10.92	1108.82	5.24	0.0512	23.31	0.0063	22.76	0.0009	5.25	0.00029	8.86	5.89	10.49	98.30	45.53	5.90	17.73
UG012191_z_5	7.1	15.4	7.06	15.43	761.22	6.11	0.1768	15.78	0.0315	14.60	0.0013	6.45	0.00072	10.56	8.46	12.90	31.54	29.19	14.54	21.13
UG012191_z_6	6.9	15.5	6.87	15.47	596.33	4.64	0.3377	60.6	0.0765	7.96	0.0017	4.63	0.00091	7.01	10.88	9.26	74.88	15.92	18.50	14.01
UG012191_z_7	23.2	7.4	23.18	7.40	276.60	3.17	0.0524	13.88	0.0259	13.59	0.0036	3.59	0.00143	10.56	23.36	7.17	25.93	27.18	28.97	21.12
UG012191_z_8	21.5	4.5	21.48	4.45	291.86	2.01	0.0687	7.50	0.0320	7.37	0.0034	2.12	0.00126	5.59	22.10	4.25	32.03	14.74	25.51	11.19
UG012191_z_9	5.9	26.1	5.86	26.07	302.75	2.93	0.6190	4.32	0.2818	4.66	0.0033	2.89	0.00391	4.95	21.25	5.77	252.05	9.33	79.17	9.89
UG012192_z_1	6.5	17.0	6.50	17.02	905.92	7.62	0.1133	24.02			0.0011	7.64	0.00070	12.75	7.11	15.27	0.00		14.15	25.50
UG012192_z_10	5.6	29.1	5.60	29.09	552.44	6.35	0.4586	10.26	0.1162	8.58	0.0018	7.40	0.00192	8.07	11.70	14.79	111.59	17.17	38.97	16.13
UG012192_z_11			30.66	7.89	157.63	2.81	0.2462	5.82	0.2123	6.41	0.0064	3.10	0.00733	5.22	40.96	6.19	195.48	12.81	148.09	10.43
UG012192_z_2			21.34	88.80	13.02	3.17	0.8325	1.50	9.0062	4.20	0.0766	3.37	0.07554	3.77	475.99	6.75	2338.64	8.40	1476.13	7.55
UG012192_z_3			69.35	35.17	7.49	2.16	0.8253	0.93	15.3851	2.46	0.1342	1.98	0.18577	3.10	812.00	3.97	2839.39	4.91	3453.75	6.19
UG012192_z_4	5.5	182.4	5.51	182.36	36.73	2.37	0.8220	2.51	3.0651	2.68	0.0274	2.59	0.04271	3.59	174.13	5.18	1424.00	5.36	847.77	7.18
UG012192_z_5			8.73	18.19	549.69	6.47	0.2516	14.25	0.0635	12.79	0.0018	6.71	0.00133	10.50	11.79	13.43	62.48	25.58	27.03	21.00
UG012192_z_6	4.7	24.5	4.67	24.55	820.91	8.12	0.3725	12.75	0.0619	10.95	0.0012	02.9	0.00060	11.66	7.96	13.40	61.00	21.90	12.11	23.31
UG012192_z_7	6.3	21.6	6.27	21.56	06.009	5.70	0.3767	10.46	0.0843	9.00	0.0017	6.48	0.00114	8.79	10.78	12.96	82.19	18.00	23.09	17.58
UG012192_z_8	5.9	17.5	5.92	17.48	710.04	90.9	0.3185	11.02	0.0604	29.6	0.0014	5.48	0.00114	8.05	9.04	10.95	29.50	19.35	23.05	16.10
UG012192_z_9	5.4	27.2	5.44	27.15	676.21	7.09	0.3907	13.17	0.0788	11.23	0.0015	7.08	0.00094	13.63	9.64	14.15	76.98	22.46	18.98	27.27
UG012194_z_1	2.7	13.6	5.70	13.65	1050.20	6.20	0.0987	20.60	0.0128	19.69	0.0009	6.24	0.00031	12.55	6.11	12.49	12.93	39.37	6.24	25.11
UG012194_z_10	5.6	14.7	5.57	14.66	1048.37	7.46	0.1253	19.29	0.0163	18.22	0.0010	6.50	0.00046	11.78	6.19	12.99	16.39	36.45	9.28	23.56
UG012194_z_11	9.6	9.5	09.6	9.46	666.27	4.49	0.0519	19.91	0.0105	19.46	0.0015	4.55	0.00060	17.99	9.67	60.6	10.57	38.91	12.18	35.99
UG012194_z_12	8.9	38.8			939.74	14.70	0.0400	78.30	< DL	77.20	0.0011	19.38	0.00038	25.57	6.81	38.76	< DL	154.40	7.78	51.14
UG012194_z_2			0.05	54405.69	26.32	6.07	0.8513	5.23	4.5863	5.85	0.0379	6.07	0.07450	5.49	239.91	12.14	1746.79	11.71	1456.50	10.99
UG012194_z_2			2.95	148.45	271.81	5.35	0.7385	9.82	0.3750	7.78	0.0037	5.21	0.00391	6.23	23.62	10.42	323.36	15.56	79.13	12.47
UG012194_z_3	20.7	4.3	20.75	4.32	309.78	2.09	0.0503	90.6	0.0223	8.94	0.0032	2.08	0.00126	7.45	20.85	4.17	22.36	17.87	25.55	14.91
UG012194_z_4	7.4	17.8	7.36	17.76	834.57	96.9	0.0786	25.58	0.0132	24.65	0.0012	8.48	0.00053	12.46	7.68	16.96	13.33	49.30	10.79	24.92
UG012194_z_5	8.2	37.9			803.50	20.93	0.0400	44.96	< DL	42.30	0.0013	18.93	0.00057	28.23	8.15	37.86	70 >	84.61	11.53	56.47
UG012194_z_6	6.2	13.4			1039.16	9.67	0.0400	46.18	< DL	45.71	0.0010	6.68	0.00036	13.18	6.19	13.36	¬ DГ ×	91.43	7.27	26.35
UG012194_z_7	6.2	7.9			1046.73	3.95	0.0438	18.94	0.0057	18.58	0.0010	3.95	0.00031	9.70	6.17	7.90	5.81	37.17	6.31	19.40
UG012194_z_8	5.9	12.8			1099.16	7.14	0.0400	56.71	< DL	56.38	0.0009	6.38	0.00022	18.74	5.87	12.75	70 ×	112.75	4.47	37.49
UG012194_z_9	9.8	39.7	9.77	39.71	506.49	14.27	0.2433	31.87	0.0650	28.58	0.0020	14.95	0.00145	27.69	13.02	29.91	63.90	57.17	29.41	55.39
UG012199_z_1	17.3	45.0	17.26	44.99	84.39	5.14	0.6644	2.60	1.0718	5.50	0.0121	6.43	0.04438	5.30	77.42	12.87	739.61	11.00	880.14	10.61
UG012199_z_2	7.8	36.7	7.84	36.67	204.75	6.50	0.6388	5.30	0.4267	8.09	0.0048	5.64	0.00905	7.28	31.17	11.28	360.81	16.19	182.70	14.57
UG012199_z_3	9.7	21.2	69.6	21.16	444.19	6.62	0.3045	13.37	0.0950	11.86	0.0022	7.29	0.00224	9.70	14.39	14.58	92.13	23.71	45.42	19.41
UG012199_z_4	9.2	20.4			620.79	9.51	0.0400	33.22	< DL	31.91	0.0014	10.20	0.00105	24.99	9.25	20.40	< DF	63.82	21.17	49.98
UG012199_z_5	9.6	11.0	9.57	11.01	442.82	3.40	0.3191	6.75	0.1008	6.02	0.0023	3.54	0.00249	5.21	14.61	7.09	97.48	12.04	50.38	10.42
UG012199_z_6	10.3	17.8	10.25	17.79	630.16	7.69	0.0512	34.33	0.0114	33.54	0.0016	8.62	0.00045	9.95	10.32	17.23	11.49	67.07	9.02	19.89
UG012199_z_7	7.5	11.3	7.51	11.32	735.88	4.08	0.1544	10.77	0.0288	10.20	0.0014	5.10	0.00050	5.77	8.71	10.21	28.86	20.41	10.18	11.53
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Appendix B: Eastern Sunda arc geochronology data - zircon

Analysis ID	Pref Age Ma	28%	206Pb/238U Age	2s%	238U/206Pb ratio	18%	207Pb/206Pb	18%	207Pb/235U (calc) ratio	1s%	206Pb/238U	1s%	208Pb/232Th ratio	1s%	206Pb/238U Age (Ma)	2s%	207Pb/235U(calc) Age (Ma)	28%	208Pb/232Th Age (Ma)	2s%
UG012200_z_1	8.3	8.5			783.49	4.28	0.0386	21.55	0:0069	21.23	0.0013	4.27	0.00036	6.85	8.27	8.53	6.93	42.46	7.39	13.69
UG012200_z_2	8.7	17.2			740.30	8.50	0.0400	58.83	< DL	58.25	0.0014	8.60	0.00043	25.72	8.73	17.19	∨ DF	116.51	8.63	51.44
UG012200_z_3	8.5	8.3	8.45	8.25	704.57	3.80	0.1102	11.59	0.0222	11.08	0.0014	3.73	0.00044	4.96	9.20	7.46	22.28	22.16	8.97	9.92
UG012200_z_4	9.2	10.4	9.22	10.39	568.75	4.04	0.1901	11.00	0.0452	10.29	0.0017	4.06	0.00065	8.05	11.27	8.11	44.93	20.58	13.15	16.09
UG012200_z_5	8.1	7.5	8.08	7.49	528.77	2.06	0.3164	3.86	0.0838	4.17	0.0019	2.84	0.00039	4.46	12.28	5.69	81.74	8.33	7.99	8.92
UG012200_z_6	8.0	10.7	7.98	10.71	802.94	5.14	0.0510	23.06	0.0086	22.53	0.0012	5.15	0.00048	16.11	8.03	10.29	8.74	45.06	9.82	32.23
UG012200_z_7	8.9	5.6	8.87	5.65	726.59	2.73	0.0480	12.02	0.0091	11.90	0.0014	2.73	0.00040	3.25	8.89	5.46	9.24	23.80	8.14	6.50
UG012200_z_8	9.0	22.0	8.97	21.97	352.13	5.46	0.4480	7.95	0.1741	10.44	0.0028	5.93	0.00064	11.12	18.23	11.85	162.93	20.87	12.87	22.25
BHF-02_zr1	3.8	9.4			1681.20	5.05	0.0435	22.80	0.0036	22.37	0.0006	4.71	0.00018	12.53	3.82	9.41	3.60	44.73	3.55	25.06
BHF-02_zr10	4.4	21.6			1475.53	10.92	0.0400	54.49	< DL	53.43	0.0007	10.80	< DL	56.86	4.38	21.61	< DL	106.86	< DL	113.73
BHF-02_zr11	3.9	14.0			1660.20	12.29	0.0400	37.70	< DL	37.08	0.0006	7.00	0.00029	22.48	3.89	14.01	< DL	74.15	5.84	44.96
BHF-02_zr12	4.2	24.5	4.17	24.46	1265.34	9.92	0.1691	26.75	0.0179	24.78	0.0008	10.17	0.00066	26.92	4.93	20.35	18.02	49.56	13.32	53.84
BHF-02_zr13	3.1	10.9	3.15	10.86	1947.24	5.23	0.0835	18.07	0.0059	17.42	0.0005	5.05	0.00014	14.68	3.30	10.09	6.02	34.85	2.93	29.36
BHF-02_zr14	4.0	13.4			1603.09	6.74	0.0400	33.19	< DL	32.54	0.0006	6.70	0.00024	30.43	4.04	13.41	> DL	65.08	4.81	98.09
BHF-02_zr15	5.3	40.0	5.30	39.97	424.22	5.57	0.5598	9.37	0.1809	7.64	0.0023	5.94	0.00672	7.28	15.11	11.89	168.80	15.29	135.68	14.56
BHF-02_zr16	3.6	10.0	3.64	10.02	1736.76	4.64	0.0631	19.11	0.0051	18.59	0.0006	4.76	0.00019	8.39	3.72	9.53	5.19	37.19	3.79	16.78
BHF-02_zr17	3.8	13.2	3.83	13.21	1654.55	6.29	0.0613	26.04	0.0052	25.32	0.0006	6.28	0.00025	15.81	3.91	12.55	5.23	50.64	5.14	31.62
BHF-02_zr18	3.9	19.4	3.90	19.43	1570.52	8.96	0.1131	27.35	0.0104	25.96	0.0007	8.73	0.00066	17.48	4.26	17.45	10.50	51.93	13.42	34.95
BHF-02_zr19	3.4	9.3	3.42	9.26	1872.54	4.44	0.0515	19.92	0.0038	19.48	0.0005	4.44	0.00020	13.76	3.44	8.88	3.87	38.96	4.02	27.52
BHF-02_zr2	3.1	15.6	3.14	15.55	1913.71	7.11	0.0961	23.98	0.0070	22.95	0.0005	7.13	< DF	35.67	3.36	14.25	7.04	45.91	∨ DΓ	71.34
BHF-02_zr20	4.4	16.2			1468.26	8.12	0.0400	32.27	< DL	31.27	0.0007	8.12	0.00037	25.73	4.35	16.24	< DL	62.54	7.50	51.46
BHF-02_zr21	4.9	24.2	4.93	24.16	935.68	10.65	0.2694	18.20	0.0397	16.22	0.0011	8.42	0.00132	12.98	6.87	16.84	39.54	32.43	26.80	25.95
BHF-02_zr22	4.1	13.4			1598.18	6.71	0.0400	32.51	< DL	31.85	0.0006	69.9	0.00019	24.42	4.06	13.37	< DL	63.70	3.76	48.85
BHF-02_zr23	4.9	18.8	4.90	18.85	1124.18	7.94	0.1682	20.65	0.0210	19.16	0.0009	7.86	0.00059	17.85	5.80	15.72	21.09	38.32	11.91	35.71
BHF-02_zr24	5.5	21.3	5.54	21.28	1008.95	10.13	0.1523	24.90	0.0211	23.24	0.0010	9.08	0.00108	16.61	6.39	18.16	21.21	46.49	21.94	33.22
BHF-02_zr25	3.8	18.8			1694.87	9.34	0.0400	33.29	> DL	31.97	0.0006	9.40	0.00032	29.04	3.82	18.81	> DL	63.95	6.43	58.09
BHF-02_zr26	3.4	33.2	3.36	33.23	1486.57	12.72	0.2188	30.00	0.0201	27.21	0.0007	12.76	0.00069	24.05	4.31	25.52	20.24	54.41	13.95	48.10
BHF-02_zr3	3.4	16.1	3.40	16.11	1460.26	96.9	0.2356	11.60	0.0224	10.53	0.0007	6.63	0.00038	9.37	4.47	13.27	22.51	21.06	7.64	18.74
BHF-02_zr4	3.8	19.6			1695.48	9.84	0.0400	43.57	< DL	42.48	0.0006	9.81	< DL	61.82	3.80	19.61	< DL	84.97	< DL	123.64
BHF-02_zr5	4.1	20.7			1582.12	10.35	0.0400	38.83	> DL	37.47	0.0006	10.33	< DF	61.07	4.09	20.66	~ DΓ	74.93	∨ DL	122.13
BHF-02_zr6	3.4	8.6	3.38	9.80	1675.54	4.21	0.1407	11.91	0.0116	11.24	0.0006	4.26	0.00023	8.23	3.84	8.52	11.74	22.49	4.60	16.46
BHF-02_zr7	3.1	21.5			2058.83	10.74	0.0400	31.85	> DL	30.03	0.0005	10.74	0.00031	30.37	3.13	21.48	< DL	90.09	6.19	60.74
BHF-02_zr8	3.9	63.8	3.90	63.78	1133.32	21.30	0.3127	41.26	0.0401	36.02	0.0009	20.24	0.00076	36.54	5.89	40.47	39.96	72.04	15.34	73.09
BHF-02_zr9	3.3	21.8			1958.85	11.00	0.0400	94.72	< DL	94.09	0.0005	10.88	< DL	54.40	3.32	21.77	< DL	188.17	< DL	108.79
BHF-03_zr1	3.5	11.2	3.53	11.19	1798.70	4.99	0.0639	20.24	0.0049	19.67	0.0006	5.34	0.00019	19.93	3.61	10.68	4.99	39.35	3.81	39.87
BHF-03_zr10	3.7	7.4	3.66	7.41	1725.16	3.54	0.0651	14.06	0.0052	13.70	0.0006	3.51	0.00019	9.80	3.75	7.02	5.31	27.41	3.93	19.60
BHF-03_zr11	3.8	18.5	3.80	18.54	1670.33	10.61	0.0576	37.81	0.0048	36.79	0.0006	8.84	0.00013	40.78	3.86	17.68	4.85	73.59	2.66	81.55
BHF-03_zr12	5.6	27.0	5.64	27.05	568.99	5.79	0.4488	10.39	0.1101	8.76	0.0018	6.04	0.00506	8.39	11.50	12.08	106.08	17.52	102.33	16.78
BHF-03_zr13	3.7	13.0			1730.59	6.50	0.0445	31.44	0.0036	30.79	0.0006	6.51	0.00023	23.90	3.73	13.03	3.66	61.59	4.69	47.79
BHF-03_zr14	3.0	13.9	3.00	13.88	1940.28	10.51	0.1240	18.46	0.0088	17.47	0.0005	6.15	0.00021	17.19	3.33	12.30	8.94	34.95	4.25	34.39
BHF-03_zr15	3.7	13.8	3.71	13.81	1694.67	7.32	0.0651	26.34	0.0053	25.57	0.0006	6.54	0.00021	24.20	3.80	13.08	5.36	51.14	4.21	48.41
BHF-03_zr16	4.2	13.9	4.18	13.88	1457.97	7.40	0.0856	22.83	0.0082	21.96	0.0007	6.43	0.00036	19.24	4.40	12.86	8.28	43.92	7.31	38.49
BHF-03_zr17	2.4	30.4	2.42	30.40	927.67	5.60	0.5606	7.07	0.0835	5.85	0.0011	4.27	0.00184	6.32	6.94	8.53	81.41	11.70	37.19	12.64
BHF-03_zr18	3.9	18.6			1653.03	9.28	0.0400	35.78	> DL	34.59	0.0006	9.28	0.00056	22.26	3.90	18.56	> DL	69.17	11.26	44.53
BHF-03_zr19	4.9	22.7	4.94	22.73	834.37	8.40	0.3360	13.52	0.0563	11.79	0.0012	6.79	0.00330	11.07	7.79	13.58	55.62	23.58	08.99	22.13

Appendix B: Eastern Sunda arc geochronology data - zircon

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Analysis ID	Pref Age Ma	2s%	206Pb/238U Age	25%	238U/206Pb ratio	18%	207Pb/206Pb ratio	18%	207Pb/235U (calc) ratio	18%	206Pb/238U ratio	18%	208Pb/232Th ratio	18%	206Pb/238U Age (Ma)	2s%	207Pb/235U(calc) Age (Ma)	2s%	208Pb/232Th Age (Ma)	2s%
BHF-03_zr2	3.7	10.7			1758.44	5.91	0.0400	29.89	< DL	29.45	9000:0	5.36	0.00028	16.28	3.65	10.72	TO >	58.89	5.69	32.57
BHF-03_zr20	3.7	13.3	3.66	13.26	1590.10	6.16	0.1252	17.52			9000:0	5.87	0.00041	15.69	4.07	11.73	0.00		8.34	31.39
BHF-03_zr21	4.0	15.1	4.05	15.08	1564.56	7.15	0.0665	28.50	0.0059	27.64	9000:0	7.13	0.00035	20.84	4.15	14.25	5.97	55.27	7.13	41.69
BHF-03_zr22	3.7	74.2	3.71	74.16	282.84	4.29	0.7084	6.57	0.3460	5.24	0.0035	4.83	0.01252	5.37	22.78	99.6	301.73	10.48	252.18	10.75
BHF-03_zr23	3.4	10.0			1911.42	5.00	0.0444	24.13	0.0032	23.65	0.0005	9.00	0.00016	17.85	3.38	10.00	3.26	47.31	3.32	35.71
BHF-03_zr24	3.5	20.3	3.55	20.34	1729.88	9.45	0.0875	33.14	0.0070	31.81	0.0006	9.41	> DL	40.95	3.75	18.81	7.07	63.62	70 ×	81.91
BHF-03_zr25	3.4	14.4	3.40	14.38	1855.01	6.80	0.0691	26.61	0.0052	25.78	0.0005	82.9	0.00013	30.51	3.50	13.56	5.30	51.56	2.65	61.03
BHF-03_zr26	3.7	10.4			1729.19	5.20	0.0400	45.72	< DL	45.45	0.0006	5.20	0.00021	17.82	3.72	10.40	< DL	90.89	4.25	35.64
BHF-03_zr27	3.7	13.6			1754.25	6.83	0.0400	34.32	√ DF	33.68	90000	6.80	0.00032	23.57	3.66	13.60	∨ DF	67.35	6.58	47.14
BHF-03_zr28	3.8	12.3	3.77	12.32	1640.30	6.23	0.0779	21.33	0.0066	20.60	90000	5.76	0.00037	15.79	3.93	11.51	6.65	41.19	7.47	31.58
BHF-03_zr29	4.0	12.8			1608.82	6.41	0.0400	72.23	∨ DL	71.97	9000'0	6.41	0.00025	22.56	4.01	12.81	< DL	143.93	5.06	45.12
BHF-03_zr3	3.6	18.0	3.55	17.97	1725.15	8.39	0.0834	30.02	0.0067	28.88	90000	8.35	0.00029	29.61	3.73	16.70	6.81	27.77	5.78	59.23
BHF-03_zr30	3.5	11.1			1833.60	5.55	0.0367	29.45	0.0028	28.96	0.0005	5.57	0.00027	18.37	3.49	11.13	2.79	57.91	5.51	36.75
BHF-03_zr31	3.2	18.5	3.16	18.51	1977.47	9.28	0.0615	36.53	0.0043	35.49	0.0005	8.79	0.00014	39.82	3.23	17.58	4.34	70.98	2.74	79.65
BHF-03_zr32	3.6	17.1	3.62	17.08	1557.03	7.35	0.1467	20.49	0.0130	19.20	90000	7.34	0.00053	17.69	4.15	14.69	13.08	38.39	10.68	35.38
BHF-03_zr33	3.5	25.1	3.48	25.06	1450.07	9.61	0.2119	23.22	0.0199	21.15	0.0007	9.74	0.00085	23.07	4.41	19.47	19.98	42.30	17.27	46.14
BHF-03_zr34	3.4	13.9	3.39	13.86	1864.12	6.59	0.0640	26.73	0.0048	25.95	0.0005	6.57	0.00022	22.74	3.47	13.14	4.86	51.90	4.49	45.48
BHF-03_zr35	4.0	13.4	3.96	13.39	1523.44	6.16	0.0980	20.44			0.0007	6.12	0.00018	25.51	4.24	12.25	0.00		3.57	51.01
BHF-03_zr36	4.1	14.6			1577.33	7.29	0.0400	44.90	< DL	44.33	90000	7.28	0.00023	30.30	4.09	14.56	< DΓ	88.66	4.58	60.61
BHF-03_zr4	3.5	14.1	3.50	14.13	1780.92	22.00	0.0648	27.07	0.0050	26.28	9000:0	69.9	0.00027	18.73	3.58	13.38	5.06	52.55	5.52	37.46
BHF-03_zr5	3.4	16.1			1912.44	8.06	0.0400	30.24	∨ DL	29.18	0.0005	8.06	< DL	32.01	3.40	16.12	< DL	58.36	< DL	64.03
BHF-03_zr6	3.8	14.3	3.78	14.33	1647.78	22.27	0.0710	26.13	0.0059	25.29	90000	6.75	< DL	37.02	3.91	13.49	5.98	50.58	< DL	74.04
BHF-03_zr7	3.0	14.5	3.03	14.53	2056.26	11.69	0.0692	26.84	0.0046	26.00	0.0005	6.85	0.00020	27.79	3.12	13.70	4.70	52.00	4.04	55.58
BHF-03_zr8	2.7	24.4			2472.14	12.11	0.0400	95.86	∨ DL	95.10	0.0004	12.21	^ DF	35.40	2.66	24.42	< DL	190.20	V DΓ	70.80
BHF-03_zr9	3.8	13.5	3.81	13.48	1661.90	6.40	0.0522	28.94	0.0043	28.25	0.0006	6.46	0.00038	18.14	3.84	12.92	4.35	26.50	7.72	36.28
GBF-01_zr1	2.2	19.8	2.21	19.85	2432.52	8.12	0.1816	20.64	0.0103	19.04	0.0004	8.10	0.00017	16.63	2.76	16.20	10.38	38.09	3.52	33.27
GBF-01_zr10	3.1	46.7	3.07	46.75	756.06	9.35	0.5525	11.05	0.1003	8.99	0.0013	8.87	0.00137	8.97	8.55	17.73	97.08	17.97	27.73	17.95
GBF-01_zr11	2.3	27.8	2.27	27.78	1382.00	8.88	0.4498	10.71	0.0448	9.01	0.0007	5.97	0.00075	8.21	4.64	11.95	44.51	18.03	15.14	16.41
GBF-01_zr12	3.4	22.4			1870.34	11.21	0.0400	34.94	< DL	33.13	0.0005	11.21	0.00017	28.63	3.45	22.42	> DL	96.26	3.48	57.26
GBF-01_zr13	2.4	47.4	2.36	47.45	1682.14	13.85	0.3436	27.32	0.0284	23.60	0.0006	14.09	0.00044	23.10	3.79	28.18	28.42	47.21	8.84	46.20
GBF-01_zr14	3.2	22.3	3.20	22.28	1576.03	13.01	0.2245	19.22	0.0201	17.42	0.0006	8.61	0.00038	17.12	4.13	17.22	20.21	34.84	7.60	34.24
GBF-01_zr15	2.5	32.9	2.53	32.91	1570.50	9.47	0.3511	18.54	0.0311	16.01	9000:0	9.47	0.00052	13.25	4.11	18.95	31.06	32.03	10.47	26.50
GBF-01_zr16	2.9	13.3	2.89	13.33	2109.93	6.13	0.0932	20.92	0.0062	20.05	0.0005	6.12	0.00021	12.70	3.08	12.25	6.26	40.11	4.34	25.40
GBF-01_zr2	4.4	72.2	4.41	72.25	279.89	4.52	0.6882	7.59	0.3372	9.14	0.0036	6.62	0.00434	6.88	23.41	13.24	295.03	18.28	87.75	13.77
GBF-01_zr3	4.0	1.69	3.97	60.69	280.59	4.13	0.6979	6.72			0.0035	4.93	0.00470	5.42	22.53	9.85	0.00		95.11	10.83
GBF-01_zr4	2.4	17.7	2.36	17.73	2090.75	6.64	0.2315	15.28	0.0152	13.85	0.0005	6.64	0.00029	10.40	3.08	13.29	15.35	27.70	5.88	20.80
GBF-01_zr5	2.7	17.9			2448.66	18.89	0.0400	36.06	< DL	34.97	0.0004	8.96	0.00015	18.43	2.72	17.93	< DL	69.93	2.95	36.85
GBF-01_zr6	2.8	16.8	2.85	16.85	2157.74	7.85	0.0781	29.16	0.0050	28.12	0.0005	78.7	0.00021	12.89	3.06	15.74	5.07	56.23	4.29	25.79
GBF-01_zr7	2.7	12.8	2.70	12.84	2344.07	6.10	0.0615	25.27	0.0036	24.57	0.0004	6.10	0.00015	14.14	2.84	12.20	3.66	49.13	3.08	28.27
GBF-01_zr8	5.3	46.1	5.33	46.10	106.27	6.93	0.7697	1.65	0.9976	2.67	0.0094	5.33	0.00886	5.41	60.37	10.65	702.60	11.34	178.82	10.82
GBF-01_zr9	2.7	17.7	2.68	17.71	2112.24	7.64	0.1463	21.29	0.0096	19.94	0.0005	7.62	0.00027	14.14	3.07	15.23	9.68	39.88	5.50	28.28
GBF-03_zr1	2.8	7.0	2.85	6.99	2036.97	2.50	0.1320	7.80	0.0090	7.54	0.0005	3.17	0.00021	5.76	3.19	6.34	9.05	15.09	4.26	11.53
GBF-03_zr2	2.5	16.3	2.54	16.26	2053.18	6.43	0.1849	16.22	0.0125	14.97	0.0005	02.9	0.00097	14.19	3.08	13.39	12.61	29.95	19.73	28.37
GBF-03_zr3	2.7	19.7	2.68	19.66	2046.99	8.19	0.1713	21.27	0.0118	19.70	0.0005	8.16	0.00053	14.37	3.18	16.32	11.87	39.40	10.79	28.74
GBF-03_zr4	2.9	23.2	2.93	23.24	1015.92	4.49	0.4677	8.23	0.0632	96.9	0.0010	4.86	0.00448	11.75	6.28	9.73	62.24	13.91	90.55	23.50
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Appendix B: Eastern Sunda arc geochronology data - zircon

2s%         206Pb1238U         2s%         238U206Pb         1s%         207Pb1236U         1s%         207Pb1235U           Age         ratio         ratio         ratio         ratio         ratio         ratio	200Pb/238U         28%         238U208Pb         15%         207Pb/236Pb         15%         207Pb/235U           Age         ratio         ratio         (calc) ratio         ratio         ratio	25% 238UZ06Pb 15% 207Pb/Z05Pb 15% 207Pb/Z35U ratio	238U/206Pb 15% 207Pb/206Pb 15% 207Pb/235U ratio	15% 207Pb/206Pb 15% 207Pb/235U ratio	207Pb/206Pb 1s% 207Pb/235U ratio	1s% 207Pb/235U (calc) ratio	207Pb/235U (calc) ratio		,	1s%	206Pb/238U ratio	18%	208Pb/232Th ratio	18%	206Pb/238U Age (Ma)	2s%	207Pb/235U(calc) Age (Ma)	2s%	208Pb/232Th Age (Ma)	2s%
23.9 3.12 23.87 512.81 3.21 0.6381	3.12 23.87 512.81 3.21 0.6381	23.87 512.81 3.21 0.6381	512.81 3.21 0.6381	3.21 0.6381	0.6381		3.33		0.1714	4.51	0.0019	3.64	0.00655	2.72	12.41	7.29	160.65	9.02	132.28	5.44
78.3 28.6 78.30 28.55 7.03 4.06 0.8244 0.52 11	78.30 28.55 7.03 4.06 0.8244 0.52	28.55 7.03 4.06 0.8244 0.52	7.03 4.06 0.8244 0.52	4.06 0.8244 0.52	0.8244 0.52	0.52	,	=	16.3349	4.00	0.1426	3.69	0.29130	4.39	859.50	7.39	2896.61	8.00	5182.04	8.77
389.64 4.85 0.0400 35.57	389.64 4.85 0.0400 35.57	389.64 4.85 0.0400 35.57	4.85 0.0400 35.57	4.85 0.0400 35.57	0.0400 35.57	35.57			۰ <u>ا</u>	35.27	0.0026	4.85	0.00098	14.51	16.57	69.6	< DL	70.55	19.91	29.03
9.8 12.58 9.78 503.75 4.52 0.0606 18.79	12.58 9.78 503.75 4.52 0.0606 18.79	9.78 503.75 4.52 0.0606 18.79	503.75 4.52 0.0606 18.79	4.52 0.0606 18.79	0.0606 18.79	18.79		0	0.0164	18.30	0.0020	4.67	0.00072	11.79	12.81	9.34	16.54	36.61	14.56	23.57
13.1 25.5 5.04 0.0400 69.04	509.99 13.04 0.0400 69.04	509.99 13.04 0.0400 69.04	509.99 13.04 0.0400 69.04	13.04 0.0400 69.04	0.0400 69.04	69.04		c	^ PL	67.78	0.0020	12.77	0.00103	43.82	13.15	25.53	^ DL	135.56	20.78	87.64
6.9 15.79 13.76 391.45 6.69 0.0821 22.63	15.79 13.76 39145 6.69 0.0821 22.63	13.76 391.45 6.69 0.0821 22.63	391.45 6.69 0.0821 22.63	6.69 0.0821 22.63	0.0821 22.63	22.63		öö	0.0293	21.81	0.0026	6.43	0.00123	20.02	16.54	12.86	29.37	43.62	24.94	40.04
16.4 13.30 16.40 471.86 8.67 0.0577 33.38	13.30 16.40 471.86 8.67 0.0577 33.38	16.40 471.86 8.67 0.0577 33.38	471.86 8.67 0.0577 33.38	8.67 0.0577 33.38	0.0577 33.38	33.38		0	0.0167	32.49	0.0021	7.82	0.00119	25.50	13.49	15.64	16.86	64.98	24.16	51.00
15.0 11.6 431.24 5.80 0.0385 30.01 0	431.24 5.80 0.0385 30.01	5.80 0.0385 30.01	5.80 0.0385 30.01	5.80 0.0385 30.01	0.0385 30.01	30.01		0	0.0124	29.49	0.0023	5.81	0.00097	21.52	14.95	11.61	12.46	58.98	19.73	43.04
14.2 6.0 453.23 3.02 0.0429 14.67 0	453.23 3.02 0.0429 14.67	3.02 0.0429 14.67	3.02 0.0429 14.67	3.02 0.0429 14.67	0.0429 14.67	14.67		0	0.0130	14.44	0.0022	3.02	0.00064	9.22	14.24	6.03	13.14	28.89	12.95	18.44
14.1 6.7 14.07 6.70 453.94 3.12 0.0531 13.69	14.07 6.70 453.94 3.12 0.0531 13.69	6.70 453.94 3.12 0.0531 13.69	453.94 3.12 0.0531 13.69	3.12 0.0531 13.69	0.0531 13.69	13.69			0.0161	13.42	0.0022	3.22	0.00070	9.84	14.19	6.45	16.23	26.85	14.28	19.67
15.1 11.2 15.14 11.20 415.33 5.24 0.0684 20.41 0	15.14 11.20 415.33 5.24 0.0684 20.41	11.20 415.33 5.24 0.0684 20.41	415.33 5.24 0.0684 20.41	5.24 0.0684 20.41	0.0684 20.41	20.41		0	0.0225	19.80	0.0024	5.30	0.00075	20.30	15.57	10.61	22.59	39.60	15.10	40.61
14.1 14.7 14.12 14.69 450.47 9.60 0.0554 30.26 0	14.12 14.69 450.47 9.60 0.0554 30.26	14.69 450.47 9.60 0.0554 30.26	450.47 9.60 0.0554 30.26	9.60 0.0554 30.26	0.0554 30.26	30.26		0	0.0169	29.49	0.0022	7.03	0.00099	22.58	14.29	14.07	17.03	58.99	20.10	45.15
15.1 21.0 15.07 20.97 388.11 11.89 0.1190 28.61 0.	15.07 20.97 388.11 11.89 0.1190 28.61	20.97 388.11 11.89 0.1190 28.61	388.11 11.89 0.1190 28.61	11.89 0.1190 28.61	0.1190 28.61	28.61		Ö	0.0417	27.09	0.0026	9.36	0.00226	25.02	16.59	18.71	41.49	54.19	45.82	50.05
15.4 9.0 15.36 9.04 416.57 4.07 0.0486 18.74 0.	15.36 9.04 416.57 4.07 0.0486 18.74	9.04 416.57 4.07 0.0486 18.74	416.57 4.07 0.0486 18.74	4.07 0.0486 18.74	0.0486 18.74	18.74		0	0.0160	18.36	0.0024	4.37	0.00081	15.89	15.40	8.75	16.10	36.72	16.50	31.78
13.4 7.9 13.44 7.89 471.32 3.78 0.0606 15.56 0.	13.44 7.89 471.32 3.78 0.0606 15.56	7.89 471.32 3.78 0.0606 15.56	471.32 3.78 0.0606 15.56	3.78 0.0606 15.56	0.0606 15.56	15.56		0.0	0.0176	15.18	0.0021	3.76	0.00086	10.51	13.68	7.51	17.75	30.36	17.36	21.01
15.3 13.6 42.94 0.0253 42.94 0.	421.66 6.93 0.0253 42.94	6.93 0.0253 42.94	6.93 0.0253 42.94	6.93 0.0253 42.94	0.0253 42.94	42.94		0	0.0084	42.43	0.0024	6.78	0.00081	18.71	15.32	13.56	8.48	84.87	16.51	37.42
18.9 19.6 18.88 19.56 314.20 8.73 0.1117 27.71 0.1	18.88 19.56 314.20 8.73 0.1117 27.71	19.56 314.20 8.73 0.1117 27.71	314.20 8.73 0.1117 27.71	8.73 0.1117 27.71	0.1117 27.71	27.71		0.0	0.0497	26.33	0.0032	8.81	0.00124	31.59	20.57	17.62	49.28	52.66	25.16	63.19
14.5 8.1 14.49 8.14 430.98 3.85 0.0651 15.46 0.	14.49 8.14 430.98 3.85 0.0651 15.46	8.14 430.98 3.85 0.0651 15.46	430.98 3.85 0.0651 15.46	3.85 0.0651 15.46	0.0651 15.46	15.46		0	0.0207	15.05	0.0023	3.86	0.00067	13.91	14.85	7.71	20.82	30.09	13.49	27.82
14.9 7.6 14.92 7.64 428.31 3.59 0.0520 15.96 0	14.92 7.64 428.31 3.59 0.0520 15.96	7.64 428.31 3.59 0.0520 15.96	428.31 3.59 0.0520 15.96	3.59 0.0520 15.96	0.0520 15.96	15.96		Ö	0.0167	15.63	0.0023	3.67	0.00081	12.05	15.03	7.35	16.81	31.25	16.37	24.10
19.6 60.7 19.56 60.66 79.63 7.39 0.6490 8.66 1.	19.56 60.66 79.63 7.39 0.6490 8.66	60.66 79.63 7.39 0.6490 8.66	79.63 7.39 0.6490 8.66	7.39 0.6490 8.66	0.6490 8.66	8.66		+	1.1006	8.21	0.0126	6.92	0.05372	9.05	80.61	13.84	753.65	16.42	1060.58	18.04
15.8 21.0 15.82 20.95 380.44 9.51 0.1098 30.01	15.82 20.95 380.44 9.51 0.1098 30.01	20.95 380.44 9.51 0.1098 30.01	380.44 9.51 0.1098 30.01	9.51 0.1098 30.01	0.1098 30.01	30.01			0.0406	28.53	0.0027	9.45	0.00226	24.92	17.20	18.91	40.40	90'29	45.78	49.83
14.8 8.7 14.80 8.74 433.07 4.20 0.0493 19.25	14.80 8.74 433.07 4.20 0.0493 19.25	8.74 433.07 4.20 0.0493 19.25	433.07 4.20 0.0493 19.25	4.20 0.0493 19.25	0.0493 19.25	19.25			0.0156	18.85	0.0023	4.20	0.00067	15.20	14.86	8.41	15.74	37.69	13.60	30.39
15.1 7.8 427.79 3.45 0.0429 16.83 0	427.79 3.45 0.0429 16.83	3.45 0.0429 16.83	3.45 0.0429 16.83	3.45 0.0429 16.83	0.0429 16.83	16.83		0	0.0138	16.54	0.0023	3.89	0.00084	11.13	15.10	7.78	13.90	33.09	17.09	22.26
6.4 8.3 6.43 8.26 990.20 4.11 0.0569 16.87 0	6.43 8.26 990.20 4.11 0.0569 16.87	8.26 990.20 4.11 0.0569 16.87	990.20 4.11 0.0569 16.87	4.11 0.0569 16.87	0.0569 16.87	16.87		0	0.0079	16.48	0.0010	3.95	0.00030	12.70	6.51	7.89	7.96	32.96	6.02	25.39
17.22	6.55 8.24 984.89 3.69 0.0473 17.22	8.24 984.89 3.69 0.0473 17.22	984.89 3.69 0.0473 17.22	3.69 0.0473 17.22	0.0473 17.22	17.22			9900.0	16.89	0.0010	3.99	0.00040	9.52	6.56	7.99	99.9	33.77	8.10	19.05
7.6 9.6 7.57 9.56 852.14 4.61 0.0468 21.64	7.57 9.56 852.14 4.61 0.0468	9.56 852.14 4.61 0.0468	852.14 4.61 0.0468	4.61 0.0468	0.0468		21.64		0.0075	21.20	0.0012	4.61	0.00037	13.83	7.57	9.21	7.61	42.41	7.59	27.65
7.9 15.8 8.51 0.0316 40.72	822.08 8.51 0.0316	8.51 0.0316	8.51 0.0316	8.51 0.0316	0.0316		40.72		0.0054	40.12	0.0012	7.91	0.00033	26.30	7.91	15.82	5.44	80.24	6.70	52.61
7.5 15.0 851.15 7.47 0.0400 36.00	851.15 7.47 0.0400	7.47 0.0400	7.47 0.0400	7.47 0.0400	0.0400		36.00		^ Б	35.25	0.0012	7.49	0.00034	29.31	7.55	14.98	∨ DL	70.50	6.95	58.61
5.9 12.1 5.94 12.11 1037.57 5.62 0.0773 21.05	5.94 12.11 1037.57 5.62 0.0773	12.11 1037.57 5.62 0.0773	1037.57 5.62 0.0773	5.62 0.0773	0.0773		21.05		0.0102	20.33	0.0010	2.67	0.00035	18.48	6.18	11.33	10.26	40.66	7.11	36.96
6.5 11.1 6.48 11.06 988.26 5.31 0.0487 24.54	6.48 11.06 988.26 5.31 0.0487	11.06 988.26 5.31 0.0487	988.26 5.31 0.0487	5.31 0.0487	0.0487		24.54		0.0067	24.01	0.0010	5.32	0.00032	15.32	6.51	10.64	6.80	48.02	6.41	30.65
6.7 11.0 6.66 10.97 924.11 5.11 0.0828 18.35	6.66 10.97 924.11 5.11 0.0828	10.97 924.11 5.11 0.0828	924.11 5.11 0.0828	5.11 0.0828	0.0828		18.35		0.0123	17.70	0.0011	5.10	0.00023	22.25	6.99	10.21	12.40	35.40	4.72	44.51
6.7 7.9 963.91 3.90 0.0372 19.46	963.91 3.90 0.0372	3.90 0.0372	3.90 0.0372	3.90 0.0372	0.0372		19.46		0.0053	19.16	0.0010	3.93	0.00030	12.21	6.68	7.86	5.34	38.33	6.03	24.41
	7.49 11.38 854.23 5.46 0.0536	11.38 854.23 5.46 0.0536	854.23 5.46 0.0536	5.46 0.0536	0.0536		24.01		0.0086	23.44	0.0012	5.45	0.00045	15.49	7.56	10.89	8.73	46.87	9.02	30.98
7.4 12.7 7.36 12.74 875.89 6.13 0.0471 28.79	7.36 12.74 875.89 6.13 0.0471	12.74 875.89 6.13 0.0471	875.89 6.13 0.0471	6.13 0.0471	0.0471		28.79		0.0074	28.17	0.0011	6.14	0.00045	15.66	7:37	12.27	7.50	56.35	80.6	31.33
7.0 8.7 923.14 4.35 0.0374 22.73	923.14 4.35 0.0374	4.35 0.0374	4.35 0.0374	4.35 0.0374	0.0374		22.73		0.0055	22.36	0.0011	4.34	0.00027	15.42	6.97	8.69	5.61	44.72	5.41	30.85
6.1 13.3 6.10 13.25 1017.46 15.45 0.0729 23.79	6.10 13.25 1017.46 15.45 0.0729 23.79	13.25 1017.46 15.45 0.0729 23.79	1017.46 15.45 0.0729 23.79	15.45 0.0729 23.79	0.0729 23.79	23.79			0.0098	23.02	0.0010	6.23	0.00065	14.53	6.32	12.45	9.90	46.03	13.10	29.07
6.7 5.7 965.15 2.71 0.0418 13.30 0	965.15 2.71 0.0418 13.30	2.71 0.0418 13.30	2.71 0.0418 13.30	2.71 0.0418 13.30	0.0418 13.30	13.30		0	0.0059	13.11	0.0010	2.83	0.00035	6.16	6.68	5.65	5.98	26.22	7.19	12.33
6.6 15.8 6.64 15.85 943.87 9.59 0.0723 22.37	6.64 15.85 943.87 9.59 0.0723 22.37	15.85 943.87 9.59 0.0723 22.37	943.87 9.59 0.0723 22.37	9.59 0.0723 22.37	0.0723 22.37	22.37			0.0104	21.65	0.0011	7.64	0.00044	14.87	6.86	15.27	10.48	43.30	8.85	29.74
8.8 22.1 8.77 22.05 657.30 9.80 0.1449 26.61	8.77 22.05 657.30 9.80 0.1449	22.05 657.30 9.80 0.1449	657.30 9.80 0.1449	9.80 0.1449	0.1449	.,	26.61		0.0313	24.91	0.0016	9.52	0.00144	18.86	10.02	19.04	31.34	49.82	29.19	37.72
6.7 14.7 6.65 14.65 917.50 7.18 0.0860 24.22	6.65 14.65 917.50 7.18 0.0860	14.65 917.50 7.18 0.0860	917.50 7.18 0.0860	7.18 0.0860	0.0860		24.22		0.0130	23.29	0.0011	6.78	0.00046	17.89	7.01	13.56	13.13	46.58	9.23	35.78
6.3 9.2 1026.53 4.62 0.0400 31.46	1026.53 4.62 0.0400	4.62 0.0400	4.62 0.0400	4.62 0.0400	0.0400		31.46		, P	31.16	0.0010	4.61	0.00028	15.72	6.30	9.22	< DL	62.32	5.60	31.45
7.1 9.9 900.91 4.96 0.0401 25.09	900.91 4.96 0.0401	4.96 0.0401	4.96 0.0401	4.96 0.0401	0.0401		25.09		0.0061	24.65	0.0011	4.96	0.00036	16.52	7.14	9.91	6.17	49.30	7.21	33.05
6.9 10.5 938.75 5.27 0.0421 26.07	938.75 5.27 0.0421	5.27 0.0421	5.27 0.0421	5.27 0.0421	0.0421		26.07		0.0061	25.58	0.0011	5.27	0.00038	18.72	6.87	10.53	6.21	51.17	7.71	37.44
200000000000000000000000000000000000000	34000 0 703 07300	110000	110000	110000	12000		5.00		9000	5 5	0.001	1 2	0.00063	1 19	97.7	5 5	2.5	- 6	4 2	
836.48 5.24 0.0275	836.48 5.24 0.0275	5.24 0.0275	5.24 0.0275	5.24 0.0275	0.0275		26.10		0.0046	5.1.50 0.1.30	0.0012	0.20	0.00053	12.65	0/:/	10.50	4.63	03.00	10.70	75.37

Appendix B: Eastern Sunda arc geochronology data - zircon

	2s%	13.49	24.19	12.65	35.29	50.43	44.10	34.48	47.34	33.00	34.61	30.79	43.11	43.84	29.17	50.15	29.50	30.58	30.73	34.30	57.45	26.32	37.46	28.69	27.47	31.50	25.53	25.95	43.41	26.71	25.81	25.39	38.82	38.16	55.22	9.57	28.13	33.83	20.04	32.18	26.63	125.96	47.33	51.28	5.19	19.97
	208Pb/232Th Age (Ma)	6.55	8.39	295.94	16.63	5.42	9.64	7.27	8.60	10.67	5.36	15.81	6.16	11.64	9.67	10.32	7.51	18.67	7.78	6.72	5.01	9.52	31.68	9.86	10.59	7.04	6.48	8.73	6.23	8.67	7.64	8.22	11.49	7.63	6.61	92.52	66.9	6.97	7.20	10.44	9.70	< DL	8.58	5.42	3747.64	6.27
	2s%	32.01	35.56	13.13		67.83	48.10	39.52	51.87	46.05	32.78	81.48	56.27	50.43	44.37	56.88	37.34	46.35	40.46	44.02	66.22	44.60	26.70	50.57	43.31				43.40	56.53	36.34	43.23	54.89	43.19	43.81	10.86	35.61	35.35	30.09	47.39	46.52	56.87	54.06		5.89	31.06
	207Pb/235U(calc) Age (Ma)	7.52	7.67	358.23	00:00	TO>	12.90	8.88	9.79	8.26	10.46	3.90	5.52	21.03	6.89	19.29	8.83	17.71	8.09	6.81	7.03	6.22	20.47	7.01	7.33	0.00	00:00	00.00	7.65	4.21	7.24	5.76	9.80	9.20	13.62	223.39	7.37	13.25	8.02	10.87	7.72	20.41	9.05	00:00	1689.50	7.86
	2s%	7.56	79.7	15.60	18.12	12.45	13.54	9.46	12.90	11.01	8.54	12.66	10.77	18.62	9.17	29.79	8.51	14.48	9.70	9.48	23.17	8.83	18.38	11.01	9.70	8.93	8.12	8.37	9.37	9.47	8.03	8.10	12.86	10.54	12.93	6.81	8.00	11.39	6.74	13.64	11.36	19.14	13.88	13.47	3.98	7.12
	206Pb/238U Age (Ma)	6.46	7.78	32.65	7.77	8.11	99.2	7.29	7.44	6.80	7.58	7.50	7.08	9.07	7.61	6.80	7.93	8.56	7.98	7.12	7.80	7.50	9.71	7.68	06.90	7.62	7.14	7.60	7.75	7.12	7.35	7.76	8.75	7.29	7.36	20.96	7.22	8.03	7.56	7.89	7.60	8.52	6.47	8.06	245.42	2.06
	18%	6.75	12.10	6.32	17.64	25.21	22.05	17.24	23.67	16.50	17.31	15.39	21.56	21.92	14.58	25.07	14.75	15.29	15.36	17.15	28.72	13.16	18.73	14.34	13.74	15.75	12.77	12.97	21.70	13.36	12.90	12.70	19.41	19.08	27.61	4.79	14.07	16.91	10.02	16.09	13.32	62.98	23.67	25.64	2.60	9.98
İ	208Pb/232Th ratio	0.00032	0.00041	0.01471	0.00082	0.00027	0.00048	0.00036	0.00042	0.00053	0.00026	0.00078	0.00030	0.00057	0.00048	0.00051	0.00037	0.00092	0.00038	0.00033	0.00025	0.00047	0.00156	0.00049	0.00052	0.00035	0.00032	0.00043	0.00031	0.00043	0.00038	0.00041	0.00057	0.00038	0.00033	0.00457	0.00034	0.00034	0.00036	0.00052	0.00048	< DL	0.00042	0.00027	0.20308	0.00031
	18%	3.78	3.84	7.80	90.6	6.22	6.77	4.73	6.45	5.50	4.27	6.33	5.38	9.31	4.59	14.89	4.26	7.24	4.85	4.74	11.59	4.41	9.19	5.50	4.85	4.47	4.06	4.18	4.69	4.73	4.02	4.05	6.43	5.27	6.47	3.41	4.00	5.69	3.37	6.82	5.68	9.57	6.94	6.74	1.99	3.56
)	206Pb/238U ratio	0.0010	0.0012	0.0051	0.0012	0.0013	0.0012	0.0011	0.0012	0.0011	0.0012	0.0012	0.0011	0.0014	0.0012	0.0011	0.0012	0.0013	0.0012	0.0011	0.0012	0.0012	0.0015	0.0012	0.0011	0.0012	0.0011	0.0012	0.0012	0.0011	0.0011	0.0012	0.0014	0.0011	0.0011	0.0033	0.0011	0.0012	0.0012	0.0012	0.0012	0.0013	0.0010	0.0013	0.0388	0.0011
	18%	16.01	17.78	6.57		33.92	24.05	19.76	25.94	23.03	16.39	40.74	28.14	25.21	22.19	28.44	18.67	23.17	20.23	22.01	33.11	22.30	28.35	25.28	21.65				21.70	28.26	18.17	21.61	27.45	21.59	21.90	5.43	17.81	17.67	15.05	23.70	23.26	28.43	27.03		2.95	15.53
	207 Pb/235U (calc) ratio	0.0074	0.0076	0.4230		√ DF	0.0128	0.0088	0.0097	0.0082	0.0104	0.0038	0.0055	0.0209	0.0068	0.0192	0.0087	0.0176	0.0080	0.0067	0.0069	0.0061	0.0204	0.0069	0.0072				0.0076	0.0042	0.0072	0.0057	0.0097	0.0091	0.0135	0.2461	0.0073	0.0131	0.0079	0.0108	0.0076	0.0203	0.0090		4.2799	0.0078
	18%	16.37	18.13	8.12	23.69	34.45	24.94	20.26	26.68	23.62	16.85	41.20	28.60	26.49	22.60	30.23	19.10	24.23	20.65	22.45	33.76	22.68	29.74	25.77	22.14	18.47	17.92	19.41	22.14	28.62	18.53	21.94	28.12	22.17	22.79	5.97	18.17	18.29	15.34	24.39	23.75	29.95	27.86	30.84	2.37	15.86
	207Pb/206Pb ratio	0.0549	0.0460	0.6140	0.1473	0.0400	0.0788	0.0569	0.0616	0.0567	0.0645	0.0240	0.0363	0.1076	0.0423	0.1330	0.0522	0.0973	0.0475	0.0447	0.0419	0.0388	0.1030	0.0420	0.0497	0.0611	0.0515	0.0460	0.0462	0.0277	0.0462	0.0347	0.0529	0.0591	0.0868	0.5635	0.0477	0.0779	0.0495	0.0637	0.0468	0.1126	0.0655	0.0496	0.8143	0.0519
ļ	18%	3.77	3.85	6.40	8.38	6.22	12.32	4.73	6.46	5.66	4.20	15.67	5.39	17.36	4.58	11.38	4.29	7.37	4.43	4.71	7.72	4.41	10.31	5.19	4.82	4.46	4.00	4.11	6.04	4.73	3.93	4.05	6.33	5.27	6.62	3.38	3.91	4.95	3.37	5.90	5.04	9.49	6.99	6.72	1.73	3.56
	238U/206Pb ratio	1002.82	827.74	195.56	838.34	791.67	845.34	882.36	868.75	943.71	851.53	855.56	911.09	707.75	845.74	944.59	817.35	756.71	807.95	909.33	825.17	858.84	677.44	837.40	930.99	851.84	904.49	849.00	830.08	904.10	878.76	830.64	735.61	882.41	878.76	309.18	894.98	805.90	852.63	812.46	847.22	750.54	990.89	797.84	25.86	912.88
	2s%	7.90		47.64	20.76		14.49	9.91	13.58	11.53	8.99			20.19		31.90	8.88	15.82	10.01				20.18		10.09	9.39	8.45						13.40	11.06	13.97	25.95	8.29	11.99	7.01	14.22	11.70	21.28	14.66	14.02	114.95	7.42
	206Pb/238U Age	6.39		9.25	6.77		7.34	7.19	7.30	6.71	7.40			8.36		6.05	7.87	8.01	7.97				9.01		6.86	7.47	7.09						8.67	7.17	6.98	7.25	7.20	7.71	7.53	7.71	7.59	7.80	6.31	8.02	11.63	7.01
	2s%	7.9	7.7	47.6	20.8	12.4	14.5	9.6	13.6	11.5	9.0	12.7	10.8	20.2	9.2	31.9	8.9	15.8	10.0	9.5	23.2	8.8	20.2	11.0	10.1	9.4	8.4	8.4	9.4	9.5	8.0	8.1	13.4	1.1	14.0	26.0	8.3	12.0	7.0	14.2	11.7	21.3	14.7	14.0	115.0	7.4
	Pref Age Ma	6.4	7.8	9.2	8.9	8.1	7.3	7.2	7.3	6.7	7.4	7.5	7.1	8.4	7.6	6.1	7.9	8.0	8.0	7.1	7.8	7.5	0.6	7.7	6.9	7.5	7.1	7.6	7.7	7.1	7.3	7.8	8.7	7.2	7.0	7.3	7.2	7.7	7.5	7.7	7.6	7.8	6.3	8.0	11.6	7.0
	Analysis ID	LB009_zr9	LB018_zr10	LB018_zr11	LB018_zr12	LB018_zr13	LB018_zr14	LB018_zr15	LB018_zr16	LB018_zr17	LB018_zr18	LB018_zr19	LB018_zr2	LB018_zr20	LB018_zr21	LB018_zr22	LB018_zr23	LB018_zr24	LB018_zr25	LB018_zr26	LB018_zr27	LB018_zr28	LB018_zr29	LB018_zr3	LB018_zr30	LB018_zr31	LB018_zr32	LB018_zr33	LB018_zr34	LB018_zr35	LB018_zr36	LB018_zr37	LB018_zr38	LB018_zr39	LB018_zr4	LB018_zr40	LB018_zr5	LB018_zr6	LB018_zr7	LB018_zr8	LB018_zr9	LB024_zr1	LB024_zr10	LB024_zr11	LB024_zr12	LB024_zr13

Appendix B: Eastern Sunda arc geochronology data - zircon

	2s%	34.77	26.46	35.32	14.29	31.18	40.47	26.90	79.61	17.38	95.07	28.32	94.64	12.60	33.69	71.65	46.91	72.62	41.20	20.28	58.69	40.43	47.01	31.48	25.68	87.40	73.54	16.59	34.52	30.43	31.19	39.02	46.14	28.90	22.42	11.18	23.01	27.62	34.25	32.59	44.32	24.44	29.53	24.54	15.47	27.30
=	208Pb/2321h Age (Ma)	09.9	8.60	7.55	6.55	22.44	13.17	8.91	√DL	7.38	√DL	7.15	√DL	7.91	40.14	11.98	26.08	√DL	35.67	44.51	8.22	33.62	13.82	6.81	6.65	√DL	22.29	7.39	6.75	16.65	7.92	9.89	6.52	5.22	9.54	7.39	13.59	10.37	78.79	8.28	11.71	9.08	19.82	9.04	33.68	12.67
		25	9.	66	90	33	2	68		37	82	66	35	74	82	23	ō.	23	11	88	86	98	_	80	35	7		4	4		23	11	*		00	68	22	13		13	33	06	75	33	80	Σ.
	2s%	41.97		51.99	31.06	48.33	57.75	38.89	58.41	29.37	69.38	39.99	56.65	18.74	38.48	72.53	68.79	76.82	51.47	21.38	53.98	55.66	76.11	34.78	45.95	75.41	79.17	40.44	42.14		46.73	49.47	58.54		33.80	20.39	26.22	35.43		43.13	37.93	33.50	41.02	44.03	17.08	32.41
-	207Pb/235U(calc) Age (Ma)	6.85	8.39	60.6	96.9	20.77	12.39	8.45	10.11	97.9	< DL	8.50	10.96	6.65	48.23	14.95	17.97	^ DF	35.79	92.33	12.40	23.58	7.12	14.55	6.10	^ DF	32.70	5.91	6.86	0.00	8.14	9.91	6.33	0.00	8.12	7.17	21.00	10.51	0.00	7.00	24.93	10.31	20.52	5.40	41.99	22.54
	2s%	8.84	9.26	13.61	6.83	18.35	16.29	9.07	15.73	7.24	20.68	9.40	15.61	4.26	21.75	21.20	21.05	15.52	22.96	16.40	16.00	19.70	15.43	11.16	9.62	15.66	36.99	8.04	10.10	13.13	10.88	12.39	12.80	9.46	7.75	4.49	9.18	8.67	20.70	60.6	13.65	8.82	13.94	7.87	5.84	11.74
	206Pb/238U Age (Ma)	7.31	7.62	6.27	6.86	8.11	7.24	7.34	6.53	6.49	6.22	7.24	6.78	7.05	9.62	8.14	8.99	6.99	8.44	12.61	6.65	8.80	8.48	6.74	6.70	7.86	8.64	7.09	6.62	8.48	7.07	7.45	6.24	6.95	7.32	7.28	8.08	8.29	18.12	7.44	9.09	6.97	9.42	8.03	9.59	9.57
	18%	17.39	13.23	17.66	7.14	15.59	20.23	13.45	39.80	8.69	47.54	14.16	47.32	6.30	16.85	35.83	23.46	36.31	20.60	10.14	29.34	20.21	23.50	15.74	12.84	43.70	36.77	8.29	17.26	15.21	15.59	19.51	23.07	14.45	11.21	5.59	11.51	13.81	17.12	16.29	22.16	12.22	14.77	12.27	7.74	13.65
	208Pb/2321h ratio	0.00033	0.00042	0.00037	0.00032	0.00111	0.00065	0.00044	< DL	0.00036	< DL	0.00035	< DL	0.00039	0.00198	0.00059	0.00129	< DL	0.00176	0.00220	0.00041	0.00166	0.00068	0.00034	0.00033	< DL	0.00110	0.00036	0.00033	0.00082	0.00039	0.00049	0.00032	0.00026	0.00047	0.00036	0.00067	0.00051	0.00389	0.00041	0.00058	0.00045	0.00098	0.00045	0.00166	0.00063
	18%	4.45	4.63	6.81	3.42	9.18	8.15	4.53	7.86	3.62	10.34	4.70	7.80	2.13	10.87	10.60	10.53	7.76	11.48	8.20	8.00	9.85	7.72	5.58	4.81	7.83	18.50	4.02	5.05	6.56	5.44	6.19	6.40	4.73	3.87	2.25	4.59	4.34	10.35	4.54	6.82	4.41	6.97	3.93	2.92	5.87
	206Pb/238U ratio	0.0011	0.0012	0.0010	0.0011	0.0013	0.0011	0.0011	0.0010	0.0010	0.0010	0.0011	0.0011	0.0011	0.0015	0.0013	0.0014	0.0011	0.0013	0.0020	0.0010	0.0014	0.0013	0.0010	0.0010	0.0012	0.0013	0.0011	0.0010	0.0013	0.0011	0.0012	0.0010	0.0011	0.0011	0.0011	0.0013	0.0013	0.0028	0.0012	0.0014	0.0011	0.0015	0.0012	0.0015	0.0015
	18%	20.98	19.38	25.99	15.53	24.17	28.87	19.44	29.21	14.69	34.69	20.00	28.33	9.37	19.24	36.27	34.39	38.41	25.74	10.69	26.99	27.83	38.06	17.39	22.98	37.70	39.58	20.22	21.07		23.37	24.73	29.27		16.90	10.20	13.11	17.71		21.56	18.97	16.75	20.51	22.02	8.54	16.20
	207 Pb/235U (calc) ratio	0.0068	0.0083	0.0090	0.0069	0.0207	0.0123	0.0084	0.0100	0.0067	< DL	0.0084	0.0108	0.0066	0.0486	0.0148	0.0179	< DL	0.0359	0.0952	0.0123	0.0235	0.0070	0.0144	0.0060	< DL	0.0327	0.0058	0.0068		0.0080	0.0098	0.0063		0.0080	0.0071	0.0209	0.0104		0.0069	0.0249	0.0102	0.0204	0.0053	0.0422	0.0224
	1s%	21.39	19.81	26.83	15.83	25.56	29.96	19.91	30.21	14.97	36.16	20.48	29.34	9.46	21.34	37.75	35.96	39.15	28.13	12.36	28.11	29.48	38.78	18.19	23.41	38.48	42.95	20.56	21.52	24.28	23.94	25.45	29.92	23.00	17.27	10.32	13.80	18.17	17.37	21.98	20.10	17.25	21.46	22.31	6.32	17.02
	207Pb/206Pb ratio	0.0439	0.0510	0.0684	0.0475	0.1231	0.0794	0.0539	0.0722	0.0487	0.0400	0.0548	0.0756	0.0442	0.2376	0.0852	0.0953	0.0400	0.1984	0.3625	0.0876	0.1252	0.0397	0.1018	0.0421	0.0400	0.1789	0.0390	0.0484	0.0781	0.0539	0.0623	0.0475	0.0435	0.0519	0.0461	0.1224	0.0595	0.3294	0.0439	0.1293	0.0689	0.1005	0.0315	0.2087	0.1119
	18%	4.88	4.40	12.50	3.41	8.49	8.11	4.53	7.86	3.26	10.48	4.72	7.81	2.02	13.97	10.62	10.49	7.76	18.75	9:26	8.00	9.75	7.61	11.81	4.75	7.85	16.88	4.13	4.65	26.9	5.44	6.44	6:39	4.73	3.87	2.23	4.59	4.34	8.82	4.54	6.83	4.41	6.51	3.93	2.52	5.48
	238U/206Pb ratio	882.94	846.75	1012.18	938.91	77.797	887.36	876.20	986.11	990.24	1052.83	885.96	952.80	915.39	679.74	796.00	713.65	921.97	764.61	513.61	967.83	728.52	758.74	955.19	964.99	823.31	765.98	907.51	968.62	766.17	910.96	861.60	1030.46	928.68	877.67	884.96	796.81	778.26	366.43	863.31	707.61	923.69	684.24	802.57	673.39	674.17
	2s%		9.60	14.42	7.09	20.36	17.46	9.47	16.73	7.47		9.83	16.66		27.57	22.86	22.98		28.87	25.08	17.30	22.26		12.25			43.75		10.43	14.04	11.37	13.04	13.29		8.07		10.33	9.10	30.63		15.50	9.35	15.12		7.22	12.86
	206Pb/238U Age		7.57	60.9	6.85	7.32	6.94	7.27	6.32	6.47		7.16	6.53		7.29	7.74	8.43		6.81	7.57	6.30	7.92		6.27			7.19		09.9	8.14	7.00	7.30	6.23		7.27		7.30	8.15	11.64		8.14	6.77	8.78		7.62	8.78
	2s%	8.8	9.6	14.4	7.1	20.4	17.5	9.5	16.7	7.5	20.7	9.8	16.7	4.3	27.6	22.9	23.0	15.5	28.9	25.1	17.3	22.3	15.4	12.2	9.6	15.7	43.7	8.0	10.4	14.0	4.11	13.0	13.3	9.5	8.	4.5	10.3	9.1	30.6	9.1	15.5	9.4	15.1	7.9	7.2	12.9
	Pref Age Ma	7.3	9.2	6.1	6.8	7.3	6.9	7.3	6.3	6.5	6.2	7.2	6.5	7.0	7.3	7.7	8.4	7.0	6.8	9.7	6.3	6.7	8.5	6.3	6.7	6.7	7.2	7.1	9.9	8.1	7.0	7.3	6.2	7.0	7.3	7.3	7.3	8.2	11.6	7.4	8.1	6.8	8.8	8.0	7.6	8.8
	Analysis ID	LB024_zr14	LB024_zr15	LB024_zr16	LB024_zr17	LB024_zr18	LB024_zr19	LB024_zr2	LB024_zr20	LB024_zr21	LB024_zr22	LB024_zr23	LB024_zr24	LB024_zr25	LB024_zr26	LB024_zr27	LB024_zr28	LB024_zr29	LB024_zr3	LB024_zr30	LB024_zr31	LB024_zr32	LB024_zr33	LB024_zr34	LB024_zr35	LB024_zr36	LB024_zr37	LB024_zr38	LB024_zr4	LB024_zr5	LB024_zr6	LB024_zr7	LB024_zr8	LB024_zr9	LB028_zr1	LB028_zr10	LB028_zr11	LB028_zr12	LB028_zr13	LB028_zr14	LB028_zr17	LB028_zr18	LB028_zr19	LB028_zr2	LB028_zr20	LB028_zr21

Appendix B: Eastern Sunda arc geochronology data - zircon

	2s%	21.99	23.40	59.10	37.76	13.25	19.28	24.30	15.66	24.79	42.50	33.51	18.95	36.24	77.82	24.64	38.66	31.63	26.39	35.20	25.42	16.45	29.50	35.34	18.98	24.28	29.59	27.53	42.95	31.19	49.45	33.11	34.67	15.23	32.44	25.80	27.93	34.26	13.10	25.64	32.40	18.78	21.76	13.00	23.56	
4T000/40	Age (Ma)	40.73	8.04	12.57	10.32	1133.57	48.73	9.31	99.8	9.37	6.12	10.63	7.32	5.49	\ \ D	107.16	43.63	13.75	9.61	7.05	7.53	8.00	9.20	12.09	69'2	9.60	7.68	26.90	8.52	6.54	6.41	8.40	8.54	550.05	10.53	11.61	7.42	6.87	98.17	90.6	11.73	340.33	7.25	7.36	9.16	
-	2s% 200r Ag	25.96	41.02	151.29	40.23	13.63	19.45	45.52	30.63	41.27	61.24	40.81	32.78	32.52	64.94	24.24	55.94		36.99	41.39	33.46	29.13	56.35	51.74	36.11	39.80	40.80	33.46	68.63	55.25	53.51	43.91	85.93	16.62	55.49	47.40	34.56	51.47	13.15	40.73	38.58	14.86	33.90	23.39	35.34	
F		60.74 23	5.47 4	< DL 15			72.93	6.03 4	8.98	8.43 4	6.59	17.07	5.55 3;		10.00 6		34.55 51	0.00	7.76 3	9.07	12.03 3:	6.80 2	5.70 5	9.95	6.34 3	8.62 3	9.56 4		7.56 6	3.79 5	10.41 5	11.89 4.	< DL 8		6.06 54	9.61 4	7.98 3-	5.52 5		6.91 4	15.78 38		7.94 33	8.46 2:	9.71 3	
207019001900	Age (Ma)	09	2	v	11.89	1157.40	72	9	80	80	9	17	2	11.67	10	184.76	35	0	7	6	12	9	2	6	9	80	6	25.91	7	e	10	Ξ	V	691.16	9	6	7	2	172.84	9	15	420.91	7	80	6	
	2s%	14.64	7.58	22.64	11.06	11.96	10.75	9.92	7.20	10.04	12.77	13.05	6.36	8.80	15.69	17.93	21.46	11.47	8.17	9.46	9.20	6.31	10.97	12.95	7.26	9.56	9.72	13.38	15.20	8.64	14.83	12.15	11.25	14.20	10.62	12.45	7.86	98.6	8.58	8.52	12.98	19.21	7.97	5.83	8.91	
11000/40000	Age (Ma)	12.14	7.57	6.73	7.40	134.53	11.22	7.71	7.79	7.93	7.03	7.72	6.98	7.53	7.90	16.72	12.05	8.18	7.54	8.14	7.58	6.85	7.04	7.34	7.43	7.53	7.90	7.61	6.80	7.79	7.86	7.11	7.51	62.13	7.72	7.94	7.25	7.02	15.70	7.38	6.49	35.02	6.73	7.04	7.10	
	18%	11.00	11.70	29.55	18.88	6.63	9.64	12.15	7.83	12.39	21.25	16.75	9.48	18.12	38.91	12.32	19.33	15.81	13.19	17.60	12.71	8.23	14.75	17.67	9.49	12.14	14.79	13.77	21.47	15.60	24.72	16.55	17.33	7.61	16.22	12.90	13.96	17.13	6.55	12.82	16.20	9.39	10.88	6.50	11.78	
HTCCC/HCCC	ratio	0.00201	0.00040	0.00062	0.00051	0.05752	0.00241	0.00046	0.00043	0.00046	0.00030	0.00052	0.00036	0.00027	√ DL	0.00530	0.00215	0.00068	0.00047	0.00035	0.00037	0.00039	0.00045	090000	0.00038	0.00047	0.00038	0.00133	0.00042	0.00032	0.00032	0.00041	0.00042	0.02751	0.00052	0.00057	0.00037	0.00034	0.00486	0.00045	0.00058	0.01693	0.00036	0.00036	0.00045	
	1s%	7.32	3.79	11.32	5.53	5.98	5.38	4.96	3.60	5.02	6.38	6.52	3.18	4.40	7.84	8.97	10.73	5.73	4.08	4.73	4.60	3.16	5.48	6.47	3.63	4.78	4.86	69.9	7.60	4.32	7.41	6.07	5.62	7.10	5.31	6.23	3.93	4.93	4.29	4.26	6.49	9.61	3.99	2.92	4.46	
10000110000	zuor b/zsou ratio	0.0019	0.0012	0.0010	0.0011	0.0211	0.0017	0.0012	0.0012	0.0012	0.0011	0.0012	0.0011	0.0012	0.0012	0.0026	0.0019	0.0013	0.0012	0.0013	0.0012	0.0011	0.0011	0.0011	0.0012	0.0012	0.0012	0.0012	0.0011	0.0012	0.0012	0.0011	0.0012	0.0097	0.0012	0.0012	0.0011	0.0011	0.0024	0.0011	0.0010	0.0054	0.0010	0.0011	0.0011	
	1s%	12.98	20.51	75.65	20.12	6.81	9.73	22.76	15.31	20.63	30.62	20.41	16.39	16.26	32.47	12.12	27.97		18.49	20.70	16.73	14.57	28.17	25.87	18.05	19.90	20.40	16.73	34.31	27.63	26.75	21.95	42.96	8.31	27.74	23.70	17.28	25.73	6.57	20.37	19.29	7.43	16.95	11.69	17.67	
11360/40200	(calc) ratio	0.0617	0.0054	> DL	0.0118	2.1263	0.0745	0.0060	0.0089	0.0083	0.0065	0.0169	0.0055	0.0116	0.0099	0.1996	0.0346		0.0077	0.0090	0.0119	0.0067	0.0056	0.0098	0.0063	0.0085	0.0095	0.0258	0.0075	0.0037	0.0103	0.0118	< DL <	0.9752	0.0060	0.0095	0.0079	0.0055	0.1856	0.0068	0.0157	0.5137	0.0079	0.0084	0.0096	
	1s%	14.34	20.80	76.47	20.81	2.80	11.00	23.13	15.65	21.09	31.24	21.37	16.62	16.78	33.37	14.98	29.81	20.14	18.88	21.17	17.28	14.82	28.66	26.62	18.35	20.37	20.92	17.95	35.15	27.90	27.51	22.73	43.30	3.74	28.21	24.32	17.65	26.16	6.49	20.75	20.29	8.80	17.34	11.92	18.16	
40906/40706	ratio	0.2356	0.0337	0.0400	0.0752	0.7542	0.3091	0.0369	0.0541	0.0498	0.0432	0.1019	0.0370	0.0728	0.0580	0.5528	0.1388	0.0872	0.0482	0.0518	0.0753	0.0462	0.0376	0.0624	0.0396	0.0532	0.0564	0.1595	0.0511	0.0225	0.0608	0.0765	0.0400	0.7295	0.0363	0.0573	0.0512	0.0364	0.5504	0.0434	0.1131	0.6834	0.0544	0.0556	0.0632	
	1s%	6.85	3.79	11.27	5.52	6.26	5.37	4.66	3.58	4.62	6.37	6.43	4.17	4.41	78.7	13.06	10.28	5.72	4.08	4.73	4.61	3.16	5.48	6.48	3.61	4.67	4.86	99.9	7.76	4.18	6.55	7.73	6.97	6.99	5.30	6.31	3.95	4.93	3.79	4.26	6.49	7.84	3.97	2.78	4.45	
ADSOLIDOCO	zsoU/zuoru ratio	529.66	850.22	955.36	866.61	47.55	572.27	840.69	828.32	811.84	917.60	838.31	923.44	858.51	826.80	387.43	542.20	786.18	853.49	790.55	853.37	940.96	912.13	879.35	866.17	864.04	817.21	839.86	951.67	828.39	820.92	912.38	860.84	103.21	830.60	809.55	887.97	916.27	408.64	873.76	992.37	184.84	956.20	915.83	905.62	
	2s%	18.47			11.80	52.13	16.84		7.51	10.38		14.33		9.36	16.45	61.19	24.51	12.39	8.48	98.6	9.81	6.54		13.63		9.95	10.18	15.83	15.87		15.44	12.98		53.91		12.95	8.18		26.77		14.45	98.08	8.33	6.07	9.39	
11050/40300	Age	9.24			7.12	15.34	7.49		7.71	7.90		7.18		7.28	7.78	6.01	10.64	7.75	7.52	8.08	7.30	6.85		7.19		7.46	7.80	6.52	9.76		7.71	6.84		8.65		7.83	7.20		5.69		5.94	6.85	99.9	6.95	6.95	
	2s%	18.5	7.6	22.6	11.8	52.1	16.8	6.6	7.5	10.4	12.8	14.3	6.4	9.4	16.4	61.2	24.5	12.4	8.5	6.6	9.8	6.5	11.0	13.6	7.3	6.6	10.2	15.8	15.9	9.8	15.4	13.0	11.2	53.9	10.6	12.9	8.2	6.6	26.8	8.5	14.5	6.08	8.3	6.1	9.4	
One A Second	Ma Ma	9.2	7.6	6.7	7.1	15.3	7.5	7.7	7.7	7.9	7.0	7.2	7.0	7.3	7.8	0.9	10.6	7.8	7.5	8.1	7.3	6.9	7.0	7.2	7.4	7.5	7.8	6.5	6.8	7.8	7.7	6.8	7.5	8.7	7.7	7.8	7.2	7.0	5.7	7.4	5.9	6.8	6.7	7.0	6.9	
	Analysis ID	LB028_zr22	LB028_zr23	LB028_zr24	LB028_zr25	LB028_zr26	LB028_zr27	LB028_zr28	LB028_zr29	LB028_zr3	LB028_zr30	LB028_zr31	LB028_zr33	LB028_zr4	LB028_zr5	LB028_zr6	LB028_zr7	LB028_zr8	LB028_zr9	LB029_zr1	LB029_zr10	LB029_zr11	LB029_zr12	LB029_zr13	LB029_zr14	LB029_zr15	LB029_zr16	LB029_zr17	LB029_zr18	LB029_zr19	LB029_zr2	LB029_zr20	LB029_zr21	LB029_zr22	LB029_zr23	LB029_zr24	LB029_zr25	LB029_zr26	LB029_zr27	LB029_zr28	LB029_zr29	LB029_zr3	LB029_zr30	LB029_zr31	LB029_zr32	

Appendix B: Eastern Sunda arc geochronology data - zircon

2s%	39.45	37.10	22.99	33.08	28.02	19.57	26.05	32.39	36.10	25.46	39.06	29.39	51.85	59.69	62.44	28.29	41.58	22.72	26.43	46.20	23.37	31.79	28.73	33.17	7.99	15.86	59.63	38.52	24.08	74.97	29.68	25.27
208Pb/232Th Age (Ma)	7.34	12.24	11.82	7.92	8.93	7.65	6.57	10.30	4.73	15.81	6.40	5.93	7.76	4.46	9.80	11.23	10.96	32.99	8.90	11.85	8.65	10.32	11.76	15.09	65.08	7.59	10.48	9.92	9.48	8.76	8.12	8.04
28%	43.27	39.55	35.90	43.87	45.07	27.22	36.28	45.02	37.46	38.39	44.17	41.82	49.29	53.57	98.97	42.97	46.57	24.23	38.87	42.55	32.39	45.47	30.46	52.63	9.31	25.55	70.22	48.65	30.97	115.95	53.01	41.61
207Pb/235U(calc) Age (Ma)	10.12	20.59	69.6	7.47	9.74	9:90	7.46	10.32	7.90	13.16	9.57	5.45	12.56	9.12	<b>→</b> 0 F	9.28	15.07	70.41	11.97	22.47	11.52	12.07	23.35	9.65	219.99	8.73	11.30	12.59	8.74	70 >	7.93	6.93
25%	10.80	14.49	10.41	9.55	11.00	7.79	8.48	11.66	8.25	10.56	10.97	9.16	13.84	14.02	21.92	10.36	14.18	14.94	10.64	15.25	8.41	13.37	11.65	12.31	00.9	06.9	18.61	14.33	8.33	30.82	12.09	9.49
206Pb/238U Age (Ma)	7.54	7.85	7.34	7.34	7.65	7.24	7.33	7.23	7.65	8.33	7.28	7.37	7.39	6.12	7.50	7.37	7.52	10.00	7.26	8.08	7.81	6.39	7.41	8.09	22.49	7.47	7.52	6.75	7.02	7.09	7.17	6.16
18%	19.72	18.55	11.49	16.54	14.01	9.78	13.03	16.20	18.05	12.73	19.53	14.70	25.93	29.85	31.22	14.14	20.79	11.36	13.21	23.10	11.68	15.90	14.36	16.59	3.99	7.93	29.81	19.26	12.04	37.49	14.84	12.63
208Pb/232Th ratio	0.00036	0.00060	0.00058	0.00039	0.00044	0.00038	0.00032	0.00051	0.00023	0.00078	0.00032	0.00029	0.00038	0.00022	0.00048	0.00055	0.00054	0.00163	0.00044	0.00058	0.00043	0.00051	0.00058	0.00074	0.00322	0.00037	0.00052	0.00049	0.00047	0.00043	0.00040	0.00040
18%	5.40	7.25	5.20	4.78	5.50	3.89	4.24	5.83	4.12	5.28	5.49	4.58	6.92	7.01	10.96	5.18	7.09	7.47	5.32	7.63	4.20	6.68	5.83	6.15	3.00	3.45	9.30	7.17	4.16	15.41	6.05	4.74
206Pb/238U ratio	0.0012	0.0012	0.0011	0.0011	0.0012	0.0011	0.0011	0.0011	0.0012	0.0013	0.0011	0.0011	0.0011	0.0010	0.0012	0.0011	0.0012	0.0016	0.0011	0.0013	0.0012	0.0010	0.0011	0.0013	0.0035	0.0012	0.0012	0.0010	0.0011	0.0011	0.0011	0.0010
1s%	21.63	19.78	17.95	21.94	22.53	13.61	18.14	22.51	18.73	19.20	22.08	20.91	24.64	26.78	49.49	21.48	23.29	12.11	19.44	21.28	16.20	22.74	15.23	26.32	4.65	12.78	35.11	24.32	15.49	57.97	26.51	20.81
207Pb/235U (calc) ratio	0.0100	0.0205	0.0096	0.0074	0.0096	0.0098	0.0074	0.0102	0.0078	0.0130	0.0095	0.0054	0.0124	0.0090	V DL	0.0092	0.0150	0.0718	0.0119	0.0224	0.0114	0.0120	0.0233	0.0095	0.2419	0.0086	0.0112	0.0125	0.0086	¬D >	0.0078	0.0069
18%	22.24	20.90	18.43	22.40	23.14	13.95	18.50	23.18	19.12	19.84	22.70	21.22	25.55	27.64	92.09	22.05	24.29	13.91	20.09	22.54	16.66	23.65	16.23	26.98	5.02	13.03	36.29	25.31	15.85	59.03	27.12	21.29
207Pb/206Pb ratio	0.0620	0.1225	0.0613	0.0470	0.0592	0.0630	0.0475	0.0651	0.0481	0.0741	0.0614	0.0344	0.0786	0.0684	0.0400	0.0577	0.0924	0.3381	0.0745	0.1279	0.0668	0.0862	0.1463	0.0542	0.4919	0.0538	0.0700	0.0867	0.0572	0.0400	0.0500	0.0517
1s%	5.41	6.93	4.68	4.77	5.43	3.42	3.97	5.80	4.16	5.28	5.48	3.88	6.92	7.05	43.15	5.18	8.07	10.04	5.32	7.60	4.21	8.55	5.89	6.12	2.93	2.99	9.38	7.19	3.86	12.77	5.95	4.76
238U/206Pb ratio	860.19	823.62	881.01	878.28	839.86	889.59	877.13	890.14	847.71	775.15	885.36	870.41	873.86	1051.66	860.47	874.16	860.58	647.68	890.78	803.29	825.28	1019.66	878.37	787.87	286.00	863.13	859.33	963.23	919.12	923.49	903.12	1046.90
2s%	11.37	16.17	10.81	9.91	11.54	8.11	8.76	12.30	8.57	11.23	11.54		14.81	14.85		10.86	15.41	24.12	11.34	17.29	8.89	14.42	13.54	12.86	15.86	7.13	19.75	15.48	8.64		12.57	9.89
206Pb/238U Age	7.39	7.10	7.20	7.33	7.52	7.09	7.32	7.06	7.63	8.03	7.14		7.09	5.95		7.26	7.08	6.31	7.00	7.25	7.60	90.9	6.47	8.00	9.82	7.40	7.29	6.40	6.92		7.14	6.11
25%	11.4	16.2	10.8	6.6	11.5	8.1	8.8	12.3	8.6	11.2	11.5	9.2	14.8	14.9	21.9	10.9	15.4	24.1	11.3	17.3	8.9	14.4	13.5	12.9	15.9	7.1	19.7	15.5	8.6	30.8	12.6	6.6
Pref Age Ma	7.4	7.1	7.2	7.3	7.5	7.1	7.3	7.1	9.7	8.0	7.1	7.4	7.1	6.0	7.5	7.3	7.1	6.3	7.0	7.2	9.7	6.1	6.5	8.0	9.8	7.4	7.3	6.4	6.9	7.1	7.1	6.1
Analysis ID	LB029_zr34	LB029_zr35	LB029_zr36	LB029_zr37	LB029_zr38	LB029_zr39	LB029_zr4	LB029_zr40	LB029_zr5	LB029_zr6	LB029_zr7	LB029_zr8	LB036_zr1	LB036_zr10	LB036_zr11	LB036_zr12	LB036_zr13	LB036_zr14	LB036_zr15	LB036_zr17	LB036_zr18	LB036_zr19	LB036_zr2	LB036_zr20	LB036_zr21	LB036_zr3	LB036_zr4	LB036_zr5	LB036_zr6	LB036_zr7	LB036_zr8	LB036_zr9

Appendix B: Eastern Sunda arc geochronology data - apatite

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Analysis ID	238U/206Pb ratio	18%	207Pb/206Pb ratio	18%	207Pb/235U (calc) ratio	18%	206Pb/238U ratio	1s%	208Pb/232Th ratio	18%	206Pb/238U Age (Ma)	2s%	207Pb/235U (calc) Age (Ma)	2s%	208Pb/232Th Age (Ma)	2s%
LB014_322_ap1	29.69	1.55	0.7735	1.97	3.5939	1.70	0.0337	1.70	0.0091	2.14	213.54	3.40	1548.19	3.39	184.27	4.29
LB014_322_ap10	23.14	2.39	0.8377	3.12	4.9955	2.52	0.0433	2.43	0.0166	3.28	273.14	4.87	1818.57	5.05	333.79	6.56
LB014_322_ap11	21.25	2.28	0.7958	2.99	5.1606	2.33	0.0470	2.29	0.0199	3.07	296.35	4.58	1846.14	4.65	398.76	6.14
LB014_322_ap12	25.63	1.74	0.8023	2.22	4.3306	1.80	0.0391	1.74	0.0111	2.26	247.27	3.48	1699.20	3.59	223.85	4.53
LB014_322_ap13	23.22	2.29	0.8006	3.00	4.7297	2.42	0.0429	2.40	0.0101	3.28	270.90	4.80	1772.51	4.83	203.62	6.57
LB014_322_ap14	32.10	2.49	0.7950	3.31	3.4109	2.56	0.0311	2.89	0.0081	3.39	197.38	5.79	1506.90	5.13	164.36	6.77
LB014_322_ap15	37.83	2.81	0.7935	3.99	2.8821	3.32	0.0264	3.03	0.0100	3.58	167.80	90.9	1377.24	6.64	202.30	7.16
LB014_322_ap16	29.08	1.73	0.8313	2.20	3.9409	1.78	0.0344	1.73	0.0125	2.18	217.93	3.47	1622.12	3.56	251.01	4.37
LB014_322_ap17	28.11	1.70	0.8033	2.17	3.9462	1.70	0.0356	1.71	0.0083	2.28	225.30	3.41	1623.22	3.40	168.17	4.56
LB014_322_ap18	28.02	1.73	0.8205	2.20	4.0409	1.78	0.0357	<del>2</del> .	0.0089	2.19	226.23	3.68	1642.48	3.57	179.76	4.38
LB014_322_ap19	28.08	3.96	0.8358	5.27	4.0996	3.82	0.0356	3.96	0.0092	5.23	225.76	7.92	1654.22	7.64	185.64	10.46
LB014_322_ap2	31.95	1.71	0.8107	2.17	3.5059	1.74	0.0313	1.71	0.0095	2.16	198.72	3.41	1528.55	3.47	191.50	4.32
LB014_322_ap20	34.35	1.75	0.8303	2.31	3.3423	1.83	0.0291	2.00	9600:0	2.15	184.66	4.00	1491.00	3.67	192.78	4.30
LB014_322_ap21	13.59	1.74	0.8219	2.16	8.3419	1.72	0.0736	1.74	0.0138	2.17	457.58	3.48	2268.88	3.43	276.99	4.35
LB014_322_ap22	15.74	2.32	0.8201	3.00	7.1763	2.37	0.0635	2.42	0.0218	3.09	396.97	4.84	2133.56	4.74	437.65	6.18
LB014_322_ap23	28.92	2.40	0.8190	3.14	3.9000	2.46	0.0346	2.41	0.0111	3.45	219.18	4.82	1613.69	4.91	224.60	06.9
LB014_322_ap24	24.84	1.65	0.8092	5.09	4.4967	1.75	0.0403	1.70	0.0154	2.18	254.47	3.41	1730.36	3.49	310.72	4.36
LB014_322_ap25	36.56	1.67	0.8165	2.13	3.0810	1.66	0.0274	1.74	0.0079	2.17	174.08	3.47	1427.98	3.32	159.33	4.34
LB014_322_ap26	26.96	2.32	0.7748	3.07	3.9767	2.37	0.0371	2.63	0.0114	2.81	234.59	5.27	1629.45	4.73	230.67	5.63
LB014_322_ap27	14.81	1.62	0.8160	2.01	7.5851	1.61	0.0675	1.65	0.0357	2.06	420.86	3.30	2183.10	3.23	711.11	4.12
LB014_322_ap28	26.99	1.63	0.7753	5.09	3.9678	1.66	0.0371	<del>1</del> .	0.0170	2.12	234.73	3.27	1627.63	3.31	341.13	4.25
LB014_322_ap29	17.25	1.49	0.8159	1.87	6.5164	1.59	0.0579	1.69	0.0234	2.01	363.09	3.37	2048.12	3.19	468.74	4.02
LB014_322_ap3	18.09	2.16	0.8114	2.79	6.1564	2.20	0.0552	2.16	0.0199	2.73	346.54	4.32	1998.29	4.39	399.53	5.45
LB014_322_ap30	42.23	2.52	0.8378	3.32	2.7320	3.25	0.0237	2.77	0.0058	3.36	150.85	5.53	1337.20	6.50	117.88	6.71
LB014_322_ap31	15.97	2.01	0.8257	2.56	7.1753	2.08	0.0627	2.01	0.0199	2.63	391.75	4.01	2133.43	4.17	400.25	5.26
LB014_322_ap32	22.83	2.79	0.8313	3.66	5.0012	2.94	0.0437	3.18	0.0123	3.55	275.65	6.35	1819.52	5.88	247.80	7.10
LB014_322_ap33	29.73	1.72	0.7850	2.21	3.6470	1.73	0.0336	1.73	0.0083	2.18	213.12	3.45	1559.85	3.45	167.67	4.35
LB014_322_ap34	16.11	2.21	0.8210	2.84	7.0021	2.63	0.0622	2.21	0.0186	2.74	389.09	4.45	2111.70	5.26	372.79	5.47
LB014_322_ap35	22.23	2.33	0.7830	3.07	4.8649	2.52	0.0450	2.41	0.0103	3.12	283.88	4.81	1796.19	5.03	206.81	6.23
LB014_322_ap36	28.04	2.96	0.7668	4.50	3.7779	3.37	0.0356	3.40	0.0179	4.55	225.69	08.9	1588.06	6.74	360.19	9.10
LB014_322_ap37	28.94	2.76	0.7932	3.65	3.7811	2.93	0.0346	2.74	0.0102	3.71	219.44	5.48	1588.73	5.85	206.27	7.43
LB014_322_ap38	23.07	2.95	0.7913	4.13	4.7623	3.29	0.0436	3.10	0.0148	3.68	275.28	6.21	1778.27	6.59	298.36	7.35
LB014_322_ap39	29.11	3.63	0.7744	4.92	3.6745	4.51	0.0345	3.96	0.0087	4.58	218.79	7.92	1565.84	9.03	174.58	9.15
LB014_322_ap4	28.96	1.60	0.7864	2.03	3.7463	1.61	0.0345	1.61	0.0104	2.12	218.83	3.23	1581.32	3.23	209.49	4.25
LB014_322_ap40	32.00	2.38	0.8153	3.25	3.5080	2.38	0.0312	2.77	0.0122	3.26	198.14	5.53	1529.02	4.77	245.23	6.52
LB014_322_ap5	20.05	1.7	0.8151	2.16	5.6010	1.70	0.0498	1.7	0.0220	2.37	313.48	3.43	1916.25	3.40	441.62	4.73
LB014_322_ap6	23.68	1.79	0.8315	2.29	4.8550	1.79	0.0423	1.80	0.0158	2.59	266.90	3.60	1794.48	3.57	318.35	5.18
LB014_322_ap7	21.20	2.20	0.8470	2.82	5.5015	2.19	0.0473	2.25	0.0163	2.94	297.62	4.51	1900.83	4.38	327.81	5.88
LB014_322_ap8	2.09	2.87	0.9165	3.45	24.7482	2.75	0.1963	2.88	0.1098	3.95	1155.21	5.76	3298.33	5.50	2110.86	7.90
LB014_322_ap9	12.23	2.45	0.8416	3.13	9.4937	2.63	0.0819	2.46	0.0114	3.38	507.53	4.92	2386.94	5.27	229.66	6.76
LB025_323_ap1	7.86	3.20	0.8415	4.04	14.8181	3.22	0.1271	3.23	0.0851	4.12	771.08	6.46	2803.63	6.45	1655.30	8.23
LB025_323_ap10	5.48	2.21	0.8552	2.72	21.5529	2.19	0.1827	2.21	0.1380	3.01	1081.53	4.45	3163.80	4.39	2621.06	6.02
LB025_323_ap11	5.21	3.30	0.7760	4.13	20.3943	3.76	0.1910	3.32	0.1215	4.26	1127.00	6.63	3110.25	7.52	2324.88	8.51
LB025_323_ap12	6.97	5.39	0.8507	6.78	16.8457	6.18	0.1438	5.38	0.0972	6.15	866.35	10.77	2926.09	12.36	1880.81	12.30
LB025_323_ap13	2.52	2.98	0.7762	3.42	42.7654	3.00	0.3973	3.25	0.1349	3.28	2156.58	6.51	3836.97	00.9	2565.86	6.57
LB025_323_ap14	2.34	2.80	0.8407	3.01	49.3154	2.51	0.4268	2.92	0.3203	3.74	2291.38	5.83	3978.59	5.02	5632.15	7.48
LB025_323_ap15	8.63	4.43	0.8175	5.37	13.0619	4.35	0.1156	5.15	0.0683	6.22	704.96	10.30	2684.13	8.71	1338.57	12.44
LB025_323_ap16	1.43	2.15	0.8439	2.10	81.4864	2.08	0.6987	2.22	0.8444	2.76	3415.54	4.45	4480.51	4.17	12408.73	5.52
LB025_323_ap17	1.91	3.19	0.8113	2.88	58.6097	2.93	0.5242	3.10	0.2257	3.90	2716.77	6.20	4150.70	2.87	4125.43	7.80
LB025_323_ap18	2.86	5.53	0.8370	6.26	40.0438	5.40	0.3444	5.74	0.5780	6.53	1908.01	11.48	3771.78	10.80	9245.96	13.06

Appendix B: Eastern Sunda arc geochronology data - apatite

Analysis ID	238U/206Pb ratio	18%	207 Pb/206Pb ratio	18%	207Pb/235U (calc) ratio	18%	206Pb/238U ratio	18%	208Pb/232Th ratio	18%	206Pb/238U Age (Ma)	2s%	207Pb/235U (calc) Age (Ma)	2s%	208Pb/232Th Age (Ma)	2s%
LB025_323_ap2	2.66	2.48	0.8253	2.77	42.7852	2.50	0.3762	2.55	0.2362	3.10	2058.45	5.10	3837.43	5.01	4298.24	6.21
LB025_323_ap3	5.81	4.49	0.8489	5.57	20.1535	4.58	0.1722	4.49	0.1214	5.81	1024.21	8.99	3098.75	9.17	2322.60	11.62
LB025_323_ap4	6.15	3.57	0.8194	4.47	18.3645	3.77	0.1628	3.58	0.1088	4.30	972.05	7.16	3009.03	7.53	2092.66	8.60
LB025_323_ap5	6.15	3.92	0.7890	4.98	17.7193	3.91	0.1630	3.94	0.1006	2.07	973.20	7.89	2974.62	7.83	1943.54	10.14
LB025_323_ap6	4.02	2.20	0.8087	2.58	27.8487	2.17	0.2491	2.19	0.1566	2.67	1433.76	4.39	3413.78	4.33	2948.59	5.35
LB025_323_ap7	6.22	2.22	0.8649	2.70	19.1755	2.30	0.1607	2.23	0.1181	2.67	02.096	4.47	3050.69	4.59	2263.32	5.34
LB025_323_ap8	13.97	90.9	0.8498	6.73	8.4047	4.90	0.0716	5.14	0.0503	6.22	445.74	10.27	2275.68	9.81	994.97	12.45
LB025_323_ap9	4.09	2.55	0.7592	3.14	25.7349	2.57	0.2453	2.66	0.1541	2.96	1414.10	5.32	3336.52	5.14	2905.18	5.93
LB027_324_ap1	0.76	4.41	0.8374	1.85	151.8271	4.34	1.3154	4.13	2.4412	4.40	5412.27	8.26	5106.67	8.68	25050.03	8.80
LB027_324_ap10	0.28	2.90	0.8402	1.53	413.9674	3.05	3.5689	2.88	1.5920	3.34	9793.81	5.76	6120.93	6.10	19305.78	9.68
LB027_324_ap11	0.57	3.01	0.8379	2.26	200.1977	2.98	1.7371	2.95	1.7924	3.50	6490.95	5.91	5385.89	5.95	20815.12	2.00
LB027_324_ap12	1.18	6.11	0.7812	4.32	91.4012	4.41	0.8506	4.98	0.7784	5.16	3967.73	96.6	4595.77	8.83	11669.18	10.32
LB027_324_ap13	0.36	5.22	0.8665	3.53	326.5587	6.19	2.7464	5.27	4.0441	7.93	8514.32	10.53	5880.76	12.39	32801.02	15.86
LB027_324_ap2	0.21	2.65	0.8403	1.42	556.8825	2.66	4.8193	2.65	4.6658	3.00	11353.31	5.31	6421.43	5.32	35156.92	6.01
LB027_324_ap3	±.32	3.70	0.8535	3.72	88.2252	3.84	0.7448	3.71	1.1775	5.04	3588.31	7.43	4560.25	79.7	15773.88	10.07
LB027_324_ap4	0.23	1.51	0.8343	0.74	498.6720	1.46	4.3471	1.42	8.1992	2.05	10807.70	2.84	6309.54	2.92	44981.18	4.09
LB027_324_ap5	0.56	1.69	0.8387	1.27	204.7118	1.71	1.7760	1.70	1.7479	2.10	6581.82	3.39	5408.41	3.42	20489.72	4.20
LB027_324_ap6	1.07	4.28	0.7774	5.28	100.4163	4.08	0.9388	4.56	1.9379	60.9	4267.82	9.13	4690.29	8.17	21844.57	12.17
LB027_324_ap7	0.88	3.49	0.8245	2.51	129.7228	3.25	1.1331	3.55	1.3056	4.40	4883.51	7.10	4948.04	6.50	16932.56	8.80
LB027_324_ap8	0.27	4.07	0.8144	2.41	415.7562	4.74	3.7003	4.45	2.8267	6.53	9976.61	8.83	6125.30	9.48	27202.21	13.06
LB027_324_ap9	0.53	2.30	0.8452	1.70	219.7567	2.52	1.8882	2.31	1.7901	3.06	6837.20	4.61	5480.09	5.04	20798.39	6.13
LB031_325_ap1	6.78	6.50	0.7585	8.48	15.4650	6.74	0.1479	6.57	0.1344	7.63	889.16	13.15	2844.33	13.48	2556.72	15.26
LB031_325_ap10	7.11	2.15	0.8284	2.66	16.0807	2.11	0.1407	2.16	0.1432	3.08	848.41	4.32	2881.61	4.22	2712.17	6.17
LB031_325_ap11	3.54	2.96	0.8300	3.44	32.3766	3.18	0.2836	3.04	0.2486	3.98	1609.37	90.9	3561.82	6.36	4500.18	7.95
LB031_325_ap12	6.04	3.48	0.7797	4.40	17.8600	3.69	0.1656	3.48	0.1314	4.12	988.08	96.9	2982.23	7.37	2502.14	8.23
LB031_325_ap13	6.26	4.87	0.7937	6.23	17.4282	4.77	0.1600	4.98	0.1404	6.14	956.62	9.92	2958.71	9.54	2662.64	12.29
LB031_325_ap14	6.73	3.65	0.8323	4.65	16.9313	3.54	0.1478	3.65	0.1325	5.20	888.60	7.30	2930.95	7.09	2521.64	10.41
LB031_325_ap15	7.87	3.60	0.8386	4.55	14.6921	3.50	0.1272	3.62	0.1091	4.51	772.11	7.23	2795.51	6.99	2098.17	9.03
LB031_325_ap16	3.55	3.8	0.7384	4.62	28.8399	4.07	0.2825	4.07	0.2046	4.81	1603.71	8.14	3448.09	8.13	3773.59	9.62
LB031_325_ap17	3.84	3.66	0.8041	4.41	28.8422	3.87	0.2605	3.84	0.1953	4.48	1492.30	7.67	3448.16	7.74	3616.12	8.97
LB031_325_ap2	5.16	3.28	0.7440	4.13	19.9236	3.31	0.1939	3.30	0.1491	3.91	1142.21	09.9	3087.65	6.62	2817.44	7.83
LB031_325_ap3	6.40	3.40	0.7974	4.28	17.1328	3.76	0.1559	3.41	0.1288	4.59	933.87	6.81	2942.30	7.52	2455.74	9.18
LB031_325_ap4	3.81	4.84	0.7327	6.43	26.5457	2.08	0.2627	4.81	0.1947	5.92	1503.62	9.62	3366.86	10.16	3605.38	11.83
LB031_325_ap5	6.26	4.18	0.8469	5.30	18.6703	4.67	0.1608	4.39	0.1826	2.60	961.38	8.78	3024.94	9.32	3399.02	11.20
LB031_325_ap6	4.85	4.74	0.7578	6.01	21.3105	4.90	0.2045	4.78	0.1497	2.99	1199.24	9.26	3152.82	9.80	2826.86	11.99
LB031_325_ap7	6.94	2.48	0.7518	3.16	14.9818	2.51	0.1441	2.65	0.1168	3.42	867.97	5.31	2814.09	5.02	2238.30	6.84
LB031_325_ap8	# S	2.43	0.8479	7.52	139.3708	\$ 5 5 7	1.1888	2.30	1.1772	2.74	5049.84	4.60	5020.35	4.67	92.07761	5.47
LB031_325_ap9	5.09 14.26	4, 4 5, 6	0.6496	0.09 38	15.7121	2.5	0.1700	5.4	0.1324	5.49	1042.55	0.40 0.80	2281.00	2,67	2320.35	10.98
IB034 328 an10	6.76	2 52	0.8352	908	17.0983	2.41	0.1472	2.53	0.0253	3.71	884 98	5.05	2940.36	4 82	506 97	7.42
LB034 328 ap11	9.65	3.18	0.7722	4.15	11.0202	3 i	0.1035	3.12	0.0403	4.25	634.93	6.24	2524.84	6.35	800.12	8.49
LB034 328 ap12	19.17	1.58	0.8144	1.96	5.8833	1.81	0.0523	1.73	0.0191	2.29	328.43	3.47	1958.78	3.61	383.38	4.58
LB034 328 ap14	18.67	1.66	0.7856	2.10	5.8095	1.83	0.0535	1.73	0.0181	2.31	336.20	3.46	1947.82	3.66	362.67	4.63
LB034_328_ap15	13.87	1.75	0.7970	2.20	7.9373	2.07	0.0722	1.99	0.0169	2.48	449.27	3.98	2223.92	4.13	339.44	4.97
LB034_328_ap16	16.43	1.96	0.7851	2.54	6.5671	1.97	0.0609	1.97	0.0203	2.45	381.02	3.95	2054.95	3.94	407.42	4.89
LB034_328_ap17	22.71	4.06	0.7913	3.81	4.7765	4.09	0.0437	3.96	0.0175	3.48	275.75	7.93	1780.77	8.19	351.95	6.95
LB034_328_ap18	7.47	2.21	0.8679	2.40	15.9461	2.29	0.1346	2.20	0.0242	2.76	813.90	4.41	2873.57	4.58	484.28	5.53
LB034_328_ap19	29.28	2.60	0.8065	3.44	3.7891	2.54	0.0342	2.88	0.0104	3.12	216.79	5.76	1590.43	2.07	210.57	6.24
LB034_328_ap2	16.07	1.80	0.8191	2.30	7.0297	2.12	0.0622	1.81	0.0208	2.39	388.99	3.63	2115.19	4.25	417.76	4.77
LB034_328_ap20	20.76	1.85	0.7953	2.44	5.3080	1.87	0.0483	1.95	0.0149	2.31	303.92	3.89	1870.16	3.75	300.62	4.61

Appendix B: Eastern Sunda arc geochronology data - apatite

238U/206Pb 1s% 207Pb/206Pb ratio		Ω	18%	207Pb/235U (calc) ratio	18%	206Pb/238U ratio	18%	208Pb/232Th ratio	18%	206Pb/238U Age (Ma)	2s%	207Pb/235U (calc) Age (Ma)	25%	208Pb/232Th Age (Ma)	2s%
2.63 0.8328 3.40 8.1968	0.8328 3.40 8.1968	8.1968		2.52		0.0717	2.61	0.0221	3.10	446.35	5.22	2252.99	5.03	442.94	6.21
6.4232	0.8303 3.06 6.4232	6.4232		2.47		0.0565	2.89	0.0168	2.92	354.08	5.78	2035.44	4.95	337.95	5.84
1.63 0.8068 2.04 5.5509	0.8068 2.04 5.5509	5.5509	_	1.83		0.0498	1.66	0.0124	2.27	313.57	3.32	1908.51	3.67	249.61	4.53
24.10 1.45 0.8128 1.77 4.6742 1.49 25.71 2.24 0.7792 3.23 4.1934 2.25	0.8128 1.77 4.6742 0.7792 3.23 4.1934	4.6742		1.49		0.0417	1.75	0.0157	2.11	263.16	3.51	1762.64	2.99	316.63	4.22
1.94 0.8408 2.46 7.7624	0.8408 2.46 7.7624	7.7624	_	1.90		0.0667	1.95	0.0189	2.57	416.18	3.90	2203.86	3.79	379.40	5.14
1.41 0.8068 1.72 6.9234	0.8068 1.72 6.9234	6.9234		1.55		0.0622	1.49	0.0236	1.83	388.95	2.97	2101.66	3.10	472.81	3.65
2.00 0.8150 2.48 9.7925	0.8150 2.48 9.7925	9.7925		2.28		0.0866	2.30	0.0169	2.86	535.14	4.60	2415.44	4.55	338.99	5.73
32.74 3.12 0.7849 4.50 3.3067 3.28 13.36 0.7816 4.07 7.0132 4.01	0.7849 4.50 3.506/	3.306/		3.28		0.0307	2.5. 1.68	0.0095	4.67	194.65	0.63	1482.63	6.50 0.00	192.02	9.35
2.19 0.7833 2.77 12.3721	0.7833 2.77 12.3721	12.3721		2.32		0.1150	2.19	0.0381	2.63	701.49	4.38	2633.06	4.63	757.81	5.26
2.99 0.7921 3.69	0.7921 3.69 9.3954	9.3954		3.8	01	0.0858	3.60	0.0179	4.02	530.52	7.21	2377.38	7.65	359.49	8.04
3.7368	0.7535 3.20 3.7368	3.7368		2.4	_	0.0362	2.55	0.0100	3.09	229.31	5.10	1579.28	4.83	201.97	6.19
3.11 0.7908 4.23 3.2356	0.7908 4.23 3.2356	3.2356		3.4	0	0.0296	3.25	0.0073	3.71	187.99	6.50	1465.73	6.80	147.63	7.43
2.10 0.8250 2.68 6.7902	0.8250 2.68 6.7902	6.7902		2.0		0.0595	2.10	0.0183	2.59	372.68	4.20	2084.45	4.08	368.30	5.18
3.42 0.7842 4.98 4.9921	0.7842 4.98 4.9921	98 4.9921		3.95		0.0463	3.84	0.0068	4.37	291.51	7.68	1817.98	7.90	137.96	8.74
1.70 0.8225 2.11 9.3415	0.8225 2.11 9.3415	9.3415	_	7.8/		0.0822	.86	0.0256	2.18	509.26	3.72	2372.11	3.74	512.57	4.35
1.90 0.8049 2.73	0.8049 2.73 6.3136	.73 6.3136		2.06		0.0567	2.17	0.0149	2.57	355.76	4.34	2020.34	4.13	300.27	5.14
2.15 12.8834	0.8289 2.15 12.8834	15 12.8834		1.80		0.1124	1.74	0.0334	2.18	686.76	3.49	2671.17	3.60	665.60	4.36
4.12 0.8500 5.61 6.0511	1.8506 1.65 1.650	63 4.3062		4.10		0.0514	14.4	0.0060	98.4	323.20	8.83	1983.23	8.20	121.03	9.72
5.53 0.7865 5.99	0.8491 8.63 4.5062 0.8491 58.3593	63 4.3062 99 58.3593		6.08		0.0374	04.7 15.5	0.0034	5 79	236.80	14.80	1094.30	5 5	108.75	11.58
3.59 0.7498 5.60 7.0412	0.7498 5.60 7.0412	7.0412		4.02		0.0680	3.85	0.0040	4.23	424.06	7.71	2116.64	8.05	81.84	8.47
7.58 0.7379 10.11 6.3943	0.7379 10.11 6.3943	6.3943		7.45		0.0622	7.41	0.0115	11.07	389.26	14.83	2031.49	14.90	231.61	22.14
2.86 0.7859 3.74 8.6578	0.7859 3.74 8.6578	8.6578		3.00	_	0.0796	3.25	0.0067	3.47	493.56	6.50	2302.65	00.9	136.12	6.95
2.88 0.8487 4.06 9.5106	0.8487 4.06 9.5106	9.5106		2	2.77	0.0811	3.37	0.0083	3.33	502.45	6.74	2388.57	5.54	167.62	99.9
4.02 0.8338 2.29 8.8371	0.8338 2.29 8.8371	8.8371		ω,	93	0.0765	3.93	0.0250	3.95	475.27	78.7	2321.33	7.86	500.89	7.91
1.94 0.7734 2.49 7.7470	0.7734 2.49 7.7470	7.7470	_	0	2.17	0.0725	1.95	0.0167	2.52	451.41	3.89	2202.08	4 8.3	334.72	5.05
0.6856 10.32 10.4893	0.6856 10.32 10.4893	10.4893		- (	<b>2</b> 8	0.1112	7.61	0.0051	10.15	679.86	15.21	2478.97	15.89	103.20	20.30
3.26 0.8520	0.8520 4.30		4.0657		3.23	0.0347	3.88	0.0050	3.78	396.81	20.07	105 1.45	0.40 2.40	111.13	7.57
3.42 0.8121 4.69 2.1376	0.8121 4.69 2.1376	69 2.1376			3.59	0.0190	3.46	0.0058	4.56	121.52	6.92	1161.05	7.18	118.02	9.12
4.31 0.7338 5.90 6.5784	0.7338 5.90 6.5784	90 6.5784			4.39	0.0651	4.34	0.0092	6.53	406.32	8.69	2056.46	8.78	185.34	13.05
3.12 0.8302 4.08 8.7864	0.8302 4.08 8.7864	08 8.7864		(*)	14.	0.0763	3.60	0.0088	3.92	474.11	7.21	2316.08	6.83	177.98	7.85
2.10 0.8231 2.74 3.6319	0.8231 2.74 3.6319	74 3.6319	_	(A	25	0.0319	2.18	0.0109	2.83	202.68	4.36	1556.56	4.50	220.36	5.65
2.55 0.7550 3.39 5.7819	0.7550 3.39 5.7819	39 5.7819	_	•••	2.72	0.0554	2.88	0.0086	3.30	347.73	5.76	1943.71	5.43	174.06	09.9
2.81 0.7809 3.73 6.5512	0.7809 3.73 6.5512	6.5512		0	62.	0.0608	3.00	0.0066	3.73	380.49	00.9	2052.81	5.58	132.55	7.47
5.31 3.90 0.7513 4.99 19.4249 3.	0.7513 4.99 19.4249	19.4249		eri c	\$ E	0.1878	3.98	0.0133	4.64	1109.56	96.7	3063.16	% r	268.10	9.29
2.73 0.8102 3.00 2.9299	0.0102	2.9299		vi (	'n :	0.0202	2.73	0.0072	0.30	00.001	1	1309.00	0.30	140.20	0.72
3.53 0.7879 4.79 4.5201	0.7879 4.79 4.5201	4.5201		20.	<u> </u>	0.0416	4.00	0.0054	4.12	262.95	8.01	1/34.68	6.99	110.07	8.24
4.29 0.7890 5.77 5.7789	0.7890 5.77 5.7789	5.7789		4.2	_	0.0533	4.29	0.0026	4.86	334.44	8.59	1943.26	8.41	52.94	9.72
3.87 0.8425 5.09 6.9051	0.8425 5.09 6.9051	6.9051		38.8	~	0.0595	3.88	0.0287	4.50	372.75	7.76	2099.31	7.77	573.56	9.01
9.0386	0.7894 6.47 9.0386	9.0386		4.7	_	0.0837	4.87	0.0050	2.77	518.17	9.74	2341.92	9.55	101.30	11.54
0.8197 3.84	0.8197 3.84 3.1122	3.1122		3.0	0	0.0275	3.11	0.0052	3.47	174.77	6.21	1435.71	6.17	105.23	6.95
8.9198	0.8183 5.08 8.9198	8.9198		'n	22	0.0788	3.88	0.0074	4.48	488.84	7.76	2329.83	7.49	150.32	8.96
5.72 0.9388 6.71	0.9388 6.71		7.2014		5.33	0.0551	5.88	0.0073	5.91	345.66	11.77	2136.67	10.65	146.79	11.82
2.94 0.8085 4.32	0.8085 4.32		7.8747		3.46	0.0707	3.10	0.0237	3.95	440.20	6.19	2216.79	6.93	475.09	7.90
3.23 0.8559 4.23 6.3261	0.8559 4.23 6.3261	6.3261		eo	20.	0.0534	3.24	0.0058	3.74	335.62	6.49	2022.08	6.15	116.59	7.48
7.2252	0.8327 7.49 7.2252	7.2252			5.45	0.0631	5.66	0.0114	6.42	394.67	11.32	2139.62	10.90	228.86	12.84

Appendix B: Eastern Sunda arc geochronology data - apatite

238U/206Pb 1c%	8	207Pb/206Pb	2b 1c%	207Pb/235U	%31	206Pb/238U	75%	208Pb/232Th	16%	206Pb/238U	%36	207Pb/235U (calc)	%36	208Pb/232Th	%36
IS% ratio	ratio IS70	1870		calc) ratio	1870	ratio	1570	ratio	IS70	Age (Ma)	7870	Age (Ma)	7S.70	Age (Ma)	ZS70
6.51 0.7839 8.68	0.7839 8.68	8.68	13	13.8950	7.40	0.1287	6.65	0.0119	7.37	780.27	13.30	2742.58	14.80	239.77	14.74
5.28 0.7643 6.39	0.7643 6.39	6.39	<u>+</u> .	355	8.38	0.0105	5.13	0.0035	6.22	67.50	10.26	756.00	16.76	69.93	12.44
1.90 0.8422 2.24	0.8422 2.24	2.24	22.003	g :	1.92	0.1893	1.89	0.1445	2.53	1117.81	3.79	3183.86	3.83	2735.04	5.06
0.40 2.07 0.0555 5.26 17.8754 10.20 2.88 0.7719 3.70 10.4813	0.7719 3.70	3.70	10.4813		3.51	0.0981	2.88	0.0934	4.45	603.41	5.75	2478.27	7.03	943.17	8.90
1.60 0.8166 1.89	0.8166 1.89	1.89	24.3740		1.60	0.2164	1.61	0.0817	1.94	1262.76	3.21	3283.47	3.20	1592.26	3.87
1.61 0.8492 1.86	0.8492 1.86	1.86	23.5142		1.59	0.2009	1.62	0.1053	1.94	1179.92	3.23	3248.47	3.19	2030.20	3.88
2.66 0.8215 3.27	0.8215 3.27	3.27	20.8364		2.67	0.1846	2.66	0.0891	3.39	1091.95	5.32	3131.01	5.33	1730.05	6.77
2.91 2.82 U.8242 3.23 39.0098 6.64 2.85 0.8280 3.55 17.1467	0.8280 3.23	3.23	39.0698		2.87	0.3441	2.82	0.2071	3.62	1906.43	5.65 6.34	3/47.40	5.62	3814.71	7.24
2.55 5.55 5.55 5.55 5.55 5.55 5.55 5.55	0.8298 2.91	2.97	31.7666		2.02	0.2777	2.48	0.1446	3.14	1579.54	4.95	3543.09	4 95	2738.19	6.28
5.00 0.7751 7.72	0.7751 7.72	7.72	19.9509		5.49	0.1868	5.78	0.1378	6.22	1104.17	11.56	3088.98	10.98	2616.48	12.44
6.18 3.71 0.8183 4.68 18.1557	0.8183 4.68	4.68	18.1557		3.68	0.1609	3.72	0.1221	4.60	961.57	7.44	2998.02	7.36	2335.29	9.21
2.49 0.8528 2	0.8528 2.90	2.90	32.2054		2.61	0.2742	2.58	0.1695	3.56	1561.86	5.16	3556.59	5.22	3173.09	7.12
2.82 0.8432 3.03	0.8432 3.03	3.03	55.0326		2.87	0.4733	2.82	0.3517	3.79	2498.22	5.65	4087.87	5.73	6108.67	7.58
1.80 0.8102 2.03	0.8102 2.03	2.03	35.7016		1.80	0.3194	1.81	0.2005	2.16	1786.59	3.63	3658.24	3.60	3704.47	4.32
1.99 0.8111 2.24	0.8111 2.24	2.24	38.7392		2.01	0.3471	2.02	0.2056	2.35	1920.82	4.05	3738.98	4.02	3790.56	4.70
1.71 0.8449 1.95	0.8449 1.95	1.95	30.2734		1.70	0.2597	1.71	0.1595	2.26	1488.26	3.43	3495.73	3.39	3000.32	4.53
1.91 0.8141 2.23	0.8141 2.23	2.23	26.8876		1.96	0.2395	1.91	0.1178	2.27	1384.13	3.83	3379.38	3.91	2256.45	4.54
4.12 0.8311 5.15	0.8311 5.15	5.15	18.6465		4.00	0.1627	4.12	0.0994	4.86	971.83	8.24	3023.71	8.01	1920.96	9.73
2.23 0.8277 2.38	0.8277 2.38	2.38	50.8977		2.25	0.4464	2.32	0.1919	2.76	2379.19	4.65	4010.03	4.49	3558.56	5.51
3.04 2.75 0.8141 3.14 36.9144	0.8141 3.14	3.14	36.9144		2.75	0.3294	2.75	0.2007	3.70	1835.33	5.50	3691.25	5.51	3708.25	7.40
7.10 0.7693 3.97 7.69 0.8176 2.52	0.8476 2.52	2.57	22 0336		24.5	0.3232	3.40	0.1330	9.46	1178.37	16.48	3185.21	5. 9. 4.	863.30	7.00
5.03 0.8356 1.60	0.8356 1.60	1.60	987.2880		5.61	8.6415	5.36	1.0279	5.38	14608.00	10.72	7002.06	11.22	14330.58	10.76
6.23 0.8307 3.27	0.8307 3.27	3.27	21.5784		5.41	0.1903	7.23	0.0255	7.83	1122.95	14.47	3164.94	10.81	209.99	15.66
5.71 0.8646 5.93	0.8646 5.93	5.93	60.3263		5.17	0.5073	5.89	0.1156	5.08	2644.98	11.78	4179.53	10.34	2217.35	10.17
8.12 0.8575 4.46	0.8575 4.46	4.46	548.3792		8.18	4.6460	8.24	0.4924	6.88	11158.42	16.48	6405.84	16.36	8115.38	13.76
9.81 0.7360 6.98	0.7360 6.98	6.98	151.1819		17.38	1.5482	13.03	0.6894	9.11	6029.75	26.06	5102.38	34.76	10628.95	18.21
3.97 0.8074 2.14	0.8074 2.14	2.14	483.8061		3.76	4.3550	3.79	0.8136	3.68	10817.22	7.58	6278.87	7.53	12066.74	7.36
0.42 5.19 0.8205 1.85 266.5745	0.8205 1.85	1.85	266.5745		7.20	2.35/2	6.91	0.4072	6.19	7807.30	13.83	5675.38	14.40 7.06	6924.68	12.38
5.62 0.7735 5.90	0.7735 5.90	5.90	52.6279		5.23	0.4945	6.43	0.0741	8.82	2590.18	12.86	4043.33	10.46	1449.71	17.64
	0.8334 1.78	1.78	227.8615		4.47	1.9923	4.52	0.8369	3.37	7065.48	9.04	5516.70	8.94	12325.95	6.74
7.31	0.7920 6.05	6.05	1.6746		11.08	0.0149	10.53	0.0549	14.53	95.09	21.05	998.94	22.15	1084.30	29.06
5.05 0.8364 2.66	0.8364 2.66	2.66	74.1670		4.60	0.6435	4.79	0.1043	4.39	3202.69	9.59	4386.16	9.21	2011.75	8.78
6.35 0.8303 3.62	0.8303 3.62	3.62	14.6887		6.91	0.1281	6.70	0.0174	7.50	776.75	13.41	2795.29	13.83	350.18	15.00
4.24 0.8312 2.01	0.8312 2.01	2.01	384.7071		3.82	3.3703	3.63	0.4024	3.45	9507.32	7.25	6046.69	7.63	6854.26	6.89
3.59 0.8464 1.68 4	0.8464 1.68	1.68	403.9436		3.39	3.4760	3.43	0.8190	2.88	9661.41	6.87	6096.10	6.79	12127.56	5.76
0.8053 3.58	0.8053 3.58	3.58	18.3854		8.18	0.1658	99.7	0.0317	9.78	988.80	15.32	3010.12	16.37	631.76	19.56
0.31 4.04 0.8036 2.45 359.2762	0.8036 2.45	2.45	359.2762		3.98	3.2583	3.81	0.6482	3.20	9339.98	7.62	5977.43	7.95	10128.45	6.39
0.27 4.15 0.8169 2.51 415.2542	0.8169 2.51	2.51	415.2542		4.13	3.6903	4.10	0.4084	4.19	9962.90	8.20	6124.08	8.27	6942.05	8.39
1.05 7.26 0.8021 2.15 104.4284	0.8021 2.15	2.15	104.4284	,_	0.79	0.9187	7.97	0.1249	12.55	4200.88	15.94	4729.69	21.57	2385.64	25.11
6.33 0.8198	0.8198 3.25	3.25	47.9632		6.16	0.4259	6.05	0.0840	7.30	2287.31	12.10	3950.93	12.31	1634.88	14.59
0.8279	0.8279 4.18	4.18	350.7583		6.94	3.0907	6.57	0.5980	5.35	9081.12	13.14	5953.14	13.88	9501.44	10.70
4.95 0.8300 2.43	0.8300 2.43	2.43	525.1898		4.57	4.5915	4.55	0.9069	3.81	11095.86	9.10	6362.05	9.14	13083.59	7.62
11.35 0.8512 3.80 1	0.8512 3.80	3.80	1567.8928		11.36	13.0596	12.96	1.9051	6.40	17039.79	25.92	7471.32	22.72	21617.15	12.80
6.19 0.8700 1.56	0.8700 1.56	1.56	1765.4436		8.49	14.6985	8.44	4.2218	8.18	17750.55	16.89	7591.74	16.97	33502.94	16.36
0.28 6.68 0.8449 4.07 409.7563	0.8449 4.07	4.07	409.7563		6.54	3.5394	6.59	0.7427	7.33	9752.02	13.17	6110.58	13.08	11258.30	14.66

Appendix B: Eastern Sunda arc geochronology data - apatite

Analysis ID	238U/206Pb ratio	18%	207Pb/206Pb ratio	18%	207Pb/235U (calc) ratio	1s%	206Pb/238U ratio	18%	208Pb/232Th ratio	18%	206Pb/238U Age (Ma)	2s%	207Pb/235U (calc) Age (Ma)	28%	208Pb/232Th Age (Ma)	2s%
ELF-03_ap35	0.24	5.14	0.8174	2.41	472.0778	5.56	4.1912	4.76	0.8308	4.06	10617.03	9.52	6254.01	11.12	12258.17	8.12
ELF-03_ap36	26.21	14.44	0.7943	4.77	4.2643	23.00	0.0400	21.86	0.0086	23.52	252.97	43.72	1686.51	46.00	174.01	47.05
ELF-03_ap5	2.07	6.25	0.8248	2.63	55.2340	5.29	0.4860	5.47	0.0989	6.56	2553.41	10.93	4091.51	10.57	1911.59	13.12
ELF-03_ap6 E1E-03_ap7	50.0	10.47	0.8340	4 71	2196 9424	10 74	19.4599	10.80	3 7451	009	10458 23	21.50	7813.65	21.48	31562 51	11 00
ELF-03 ap8	0.87	2.79	0.8706	2.45	138.6883	3.37	1.1528	2.80	0.6901	3.10	4942.84	5.61	5015.40	6.75	10637.28	6.20
ELF-03_ap9	1.02	6.33	0.8374	5.90	113.2284	6.78	0.9810	6.36	0.5942	6.30	4406.65	12.72	4811.09	13.56	9453.74	12.61
GBF-04_ap10	1.03	14.17	0.7759	22.00	104.1320	12.53	0.9870	12.60	0.6282	14.29	4426.30	25.20	4726.83	25.06	9880.92	28.58
GBF-04_ap11	2.80	11.58	1.0342	12.64	51.3155	10.39	0.3614	11.52	0.4371	12.41	1988.97	23.04	4018.17	20.78	7350.75	24.82
GBF-04_ap12	0.20	11.22	0.9140	6.47	629.9209	11.07	4.9990	11.19	3.9572	84.72	11549.26	22.38	6546.36	22.14	32448.68	169.45
GBF-04_ap13	0.87	5.33	0.8196	3.77	129.9166	5.41	1.1528	5.81	1.7490	06.9	4942.80	11.63	4949.55	10.82	20497.83	13.79
GBF-04_ap14	0.88	9.68	0.7581	6.20	118.8094	99.9	1.1342	6.73	0.4117	6.73	4887.00	13.46	4859.52	13.32	6988.73	13.46
GBF-04_ap15	3.86	5.82	0.8302	7.14	29.3014	5.81	0.2574	6.73	0.3794	8.10	1476.50	13.45	3463.67	11.62	6519.31	16.19
GBF-04_ap16	0.04	8.73	0.8312	2.00	2662.3613	7.77	23.5406	6.78	13.3284	8.58	20630.57	13.55	8008.68	15.54	53963.26	17.16
GBF-04_ap17	7.66	5.19	0.8529	7.48	15.3508	5.02	0.1303	5.19	0.6319	7.33	789.38	10.38	2837.26	10.04	9926.85	14.67
GBF-04_ap19	0.22	17.75	0.7439	23.13	477.8295	17.74	4.4550	17.79	1.1574	92.93	10936.50	35.58	6266.28	35.49	15585.35	185.87
GBF-04_ap2	9.90	4.73	0.8139	5.83	16.4///	2.09	0.1495	5.14	1.0747	7.06	898.11	10.27	2904.93	10.19	14 / 92.83	14.12
GBF-04_ap22	1.7	8.05	0.8511	8.57	68.3837	7.76	0.5854	8.06	1.2348	12.73	2970.55	16.11	4304.87	15.52	16300.44	25.46
GBF-04_ap23	1.19	12.83	0.7607	11.89	87.5199	12.17	0.8416	14.15	0.3528	10.75	3936.22	28.30	4552.19	24.35	6125.15	21.50
GBF-04_ap24	99.0	10.23	0.8425	7.64	170.3263	16.67	1.4593	20.14	0.7623	10.46	5800.86	40.27	5222.69	33.34	11484.98	20.92
GBF-04_ap25	0.95	5.69	0.8237	5.32	119.1092	5.61	1.0510	6.31	0.8146	5.91	4630.77	12.61	4862.06	11.21	12078.10	11.81
GBF-04_ap3	0.01	4.33	0.8346	0.46	8881.0728	4.03	77.7627	3.93	137.4183	6.38	28147.79	7.87	9231.65	8.06	99936.11	12.75
GBF-04_ap6	5.18	5.09	0.7929	6.46	20.9679	2.07	0.1930	5.13	0.3444	6.33	1137.85	10.27	3137.11	10.14	5999.25	12.66
GBF-04_ap8	0.09	96.98	0.8357	2.30	1372.0407	6.87	11.9231	6.80	19.6374	7.56	16496.44	13.60	7335.92	13.75	61359.03	15.12
SPF-05_ap1	1.70	2.24	0.8318	2.37	67.3164	2.28	0.5874	2.25	0.2044	2.63	2979.01	4.51	4289.13	4.57	3770.59	5.26
SPF-05_ap10	1.10	3.98	0.8589	3.82	107.7106	3.89	0.9094	4.00	0.0376	4.11	4169.37	7.99	4760.82	7.78	747.43	8.21
SPF-05_ap12	15.26	6.50	0.8359	7.85	7.4705	7.17	0.0655	7.58	0.0105	14.28	409.12	15.16	2169.46	14.33	212.12	28.56
SPF-05_ap13	1.61	3.07	0.7981	2.72	68.6850	2.79	0.6229	3.27	0.7552	4.37	3121.42	6.55	4309.27	5.58	11403.70	8.73
SPF-05_ap14	41.95	6.28	0.8593	2.62	2.7944	6.30	0.0237	6.81	0.0051	7.32	150.83	13.63	1354.05	12.61	103.34	14.65
SPF-05_ap15	67.92	12.28	0.7969	8.80	1.6453	12.76	0.0148	14.89	0.0021	18.34	94.88	29.78	987.76	25.52	41.59	36.69
SPF-05_ap16	2.75	5.28	0.7570	90.9	38.2157	4.89	0.3671	6.43	0.1220	5.17	2015.60	12.86	3725.52	9.77	2332.52	10.34
SPF-05_ap17	14.56	75.	0.8063	1.89	7.6399	7.5	0.0687	1.56	0.0620	2.08	428.16	3.11	2189.56	3.09	1219.52	4.16
SPF-05_ap18	4.61	3.26	0.8258	3.58	24.6707	3.33	0.2174	3.36	0.0555	3.66	1268.06	6.71	3295.27	99.9	1095.34	7.32
SPF-05_ap19	0.71	7.79	0.8032	5.04	155.6679	7.43	1.4143	7.22	0.2119	4.55	5681.96	14.44	5131.88	14.86	3895.73	9.11
SPF-05_ap2	2.80	3.54	0.8238	3.44	40.5029	3.08	0.3576	3.75	0.1184	4.08	1970.87	7.50	3783.08	6.16	2268.58	8.15
SPF-05_ap20	4.26	3.16	0.7972	3.84	25.7786	3.11	0.2351	3.16	0.0778	3.65	1361.29	6.32	3338.18	6.22	1518.80	7.29
SPF-05_ap21	0.48	3.70	0.8041	2.73	230.8341	3.59	2.0952	3.61	0.1609	2.77	7283.57	7.22	5529.80	7.19	3024.13	5.54
SPF-05_ap22	0.97	4.05	0.8304	3.80	117.4921	3.99	1.0280	4.07	0.0542	3.72	4558.08	8.13	4848.30	7.98	1069.23	7.44
SPF-U5_ap23	29.10	3.72	0.8045	2.30	3.7997	3.88	0.0343	3.88	0.0279	F.5.1	217.54	9/./	1937.67	9/./	557.95	9.03
SPF-05_ap24	5.14	3.35	0.8241	4.20	22.1345	3.20	0.1952	3.56	0.0497	4.63	1149.42	7.13	3189.65	6.41	983.56	9.26
SPF-05_ap25	6.11	3.72	0.8507	4.64	19.1291	3.55	0.1641	3.70	0.0421	5.14	979.58	7.40	3048.35	7.11	835.49	10.27
SPF-05_ap26	8.12	3.55	0.7955	3.81	13.4471	4.24	0.1229	3.69	0.0462	29.9	747.40	7.39	2711.58	8.49	915.42	13.35
SPF-05_ap27	9.26	10.99	0.8265	4.79	12.1457	8.47	0.1069	8.91	9600:0	8.40	624.79	17.82	2615.73	16.95	193.53	16.81
SPF-05_ap28	11.43	7.67	0.6381	12.09	7.7395	12.53	0.0878	9.20	0.0167	13.23	542.80	18.39	2201.20	25.06	335.91	26.46
SPF-05_ap29	0.87	5.02	0.8527	4.56	133.4948	4.90	1.1501	90'9	0.3021	5.18	4934.91	10.13	4976.93	9.80	5351.26	10.36
SPF-05_ap3	7.98	5.19	0.7890	6.72	13.6512	2.07	0.1263	5.18	0.0438	6.64	766.78	10.35	2725.82	10.13	868.62	13.28
SPF-05_ap30	2.68	3.95	0.7924	4.59	40.5393	3.89	0.3743	3.95	0.2995	4.41	2049.56	7.90	3783.97	7.78	5309.52	8.83
SPF-05_ap31	4.66	4.53	0.8230	5.54	24.3573	4.41	0.2147	4.53	0.1352	5.19	1253.75	90.6	3282.80	8.82	2570.36	10.38
SPF-05_ap4	2.35	2.21	0.8148	2.22	47.7739	2.37	0.4258	2.33	0.3366	3.14	2286.73	4.65	3946.99	4.75	5881.29	6.27
SPF-05_ap5	1.49	7.56	0.7864	8.18	70.1465	9.78	0.6520	9.31	0.2395	11.63	3235.83	18.62	4330.35	19.57	4352.49	23.27

Appendix B: Eastern Sunda arc geochronology data - apatite

4.6         0.02815         3.99         0.02815         3.99         0.02815         3.99         0.02815         3.99         0.02815         3.99         0.02815         3.99         0.02815         3.99         0.02815         3.99         0.0281         0.0281 <th>1s% 207Pb/206Pb ratio</th> <th>18%</th> <th>207Pb/235U (calc) ratio</th> <th>1s%</th> <th>206Pb/238U ratio</th> <th>1s%</th> <th>208Pb/232Th ratio</th> <th>18%</th> <th>206Pb/238U Age (Ma)</th> <th>2s%</th> <th>207Pb/235U (calc) Age (Ma)</th> <th>2s%</th> <th>208Pb/232Th Age (Ma)</th> <th>2s%</th>	1s% 207Pb/206Pb ratio	18%	207Pb/235U (calc) ratio	1s%	206Pb/238U ratio	1s%	208Pb/232Th ratio	18%	206Pb/238U Age (Ma)	2s%	207Pb/235U (calc) Age (Ma)	2s%	208Pb/232Th Age (Ma)	2s%
0.00801         6.90         0.0108         9.90         9.91         9.92         9.92         9.92         9.92         9.92         9.93	0.8213 4.74 29.5983			4.06	0.2615	3.99	0.0545	5.06	1497.59	7.97	3473.57	8.11	1075.96	10.12
0.1680         7.25         0.1004         14.54         14.50         3.448.27         13.88         1989   1989   1980   198	0.7566 7.86 0.6327		5.6	_	0.0061	06.9	0.0108	9.89	39.13	13.79	497.79	11.22	217.94	19.78
0.1056         3.77         0.0742         3.88         1434.07         7.54         3.488.77         8.48         1443.07         7.54         3.488.77         8.48         1443.07         7.54         3.448.07         8.54         3.448.07         8.54         3.448.07         8.54         3.448.07         8.54         3.448.07         8.54         3.448.07         8.54         3.448.07         8.54         3.448.07         8.54         3.448.07         8.54         9.54         3.448.07         8.54         9.54         3.548.08         9.54         3.528.08         9.54         3.558.08	0.8399 9.08 18.9816		6.94		0.1639	7.25	0.1004	7.69	978.48	14.50	3040.88	13.88	1939.11	15.39
0.1766         5.87         0.138         9.87.70         1.138         7.89         1.138         1.139         2.891.90         1.139         2.891.90         1.139         2.891.90         1.139         2.891.90         1.139         2.891.90         1.139         2.891.90         1.139         2.891.90         1.139         2.891.90	3.66 0.8154 4.10 27.9764 4.29 3.05 0.8306 3.34 21.2266 3.37		3.37		0.2491	3.36	0.0742	3.91	1434.07	4. 5. 7. 8.	3418.27	8.59	1450.05	9.72
0.105246         5.60         7.0481         7.30         2.607.56.2         6.64         2.609.0           0.105246         5.10         1.101         5.60         7.0481         7.30         2.607.56.2         6.64         2.609.0           0.105246         5.14         0.10773         5.68         1.602.0         1.602.0         6.67         3.005.60         8.67         9.67         3.006.0           0.10769         4.77         0.0774         5.58         1.644.60         9.67         3.005.60         8.67         1.646.60           2.87         4.07         0.06742         3.51         1.644.60         9.702.87         8.70         9.00         3.006.60         8.69         1.646.60         9.00         3.006.60         8.69         1.646.60         9.00         3.006.60         8.60         1.646.60         9.00         3.006.60         8.60         1.646.60         9.00         3.006.60         9.00 </td <td>0.6751 6.64 15.4259</td> <td></td> <td>5.30</td> <td>_</td> <td>0.1656</td> <td>5.97</td> <td>0.1318</td> <td>7.36</td> <td>987.76</td> <td>11.94</td> <td>2841.91</td> <td>10.61</td> <td>2509.40</td> <td>14.72</td>	0.6751 6.64 15.4259		5.30	_	0.1656	5.97	0.1318	7.36	987.76	11.94	2841.91	10.61	2509.40	14.72
2.43.17         2.43.6         7.10.01         7.11.3         7.14.3         7.10.01         7.11.3         7.14.3         7.10.01         7.11.3         7.14.3         7.10.01         7.13.4         7.10.01         7.11.3         7.10.01	0.7996 4.04 12.8316	'	3.32		0.1162	3.65	0.1181	5.60	708.91	7.30	2667.36	6.63	2263.26	11.20
0.1699         4.73         0.1773         5.68         9960   9.46         902.30         902.90	13.19		23.2	2 6	0.3248	5.14	0.0764	5.13	1812.99	10.27	3782.87	9 73	15069.08	11 18
0.2200         4.51         0.0069         5.74         1344.86         9.10         3305.66         8.97         1550.26           2.237.04         4.71         0.0742         3.00         776.88         6.44         5306.66         10.44         10.0         10.0         10.04         10.0         10.04         10.0         <	0.8109 5.82 18.6345		4	12	0.1669	4.73	0.1773	5.68	995.01	9.46	3023.09	60.6	3309.15	11.37
28794         407         08742         351         8724.21         814         5826.34         8.06         10464.46           23343         2.27         0.3899         3.06         1776.80         54.2         5964.47         5.56         1384.71           0.3343         2.27         0.3899         3.06         1133         2.22.18         11.61         1511.37           0.2005         3.67         0.0704         7.55         1494.91         7.13         3.22.18         11.61         1511.37           0.2005         3.68         1.36         1.36         1.36         1.36         151.61         151.71         151.71           0.0207         1.36         2.34         6.086.17         3.75         6.64         405.62         6.64         151.61         151.71         151.71         151.71         151.72         150.62         15			4	.48	0.2320	4.51	0.0689	5.74	1344.96	9.05	3305.69	8.97	1350.28	11.49
3.33         2.7.1         0.3889         3.00         7788.80         5.42         568474         5.56         13864.16           0.7343         2.02         0.0744         7.62         1850.00         4.04         7464.0         346.4         1161.0         346.4         1161.0         376.6         61.8         56.4         36.4         1161.0         151.1 <t< td=""><td>0.8598 2.67 341.8013</td><td></td><td>4</td><td>.03</td><td>2.8704</td><td>4.07</td><td>0.6742</td><td>3.51</td><td>8724.21</td><td>8.14</td><td>5926.94</td><td>8.06</td><td>10445.46</td><td>7.02</td></t<>	0.8598 2.67 341.8013		4	.03	2.8704	4.07	0.6742	3.51	8724.21	8.14	5926.94	8.06	10445.46	7.02
0.0798         2.62         10890         2.62         10890         2.62         10890         2.62         10890         2.62         10890         2.62         10890         2.64         10.60         3.76         11890         7.61         3.76         11890         7.61         3.76         11890         7.61         3.76         11890         7.61         3.76         11890         7.61         3.76         6.64         9.67         9.69         3.76         10.66         9.69         3.76         10.66         9.69         10.66         9.60	0.8450 0.84 271.7250	_	CI ·	8/.	2.3372	2.71	0.9818	3.00	7768.80	5.42	5694.74	5.56	13864.56	0.00
0.02036         5.64         0.0774         7.53         4494.91         11.43         2.221.03         11.61         11.62	0.8463 1.77 39.0161		← ι	8 8	0.3343	2.02	0.3899	2.62	1859.00	40.4	3746.04	3.95	6674.19	5.23
19987         241         171         3.75         4.75         5.75         17.00         5.00         9.00 <th< td=""><td>5.66 0.7187 7.69 7.9171 5</td><td></td><td>മം</td><td>8 6</td><td>0.0798</td><td>3.67</td><td>0.0774</td><td>7.53</td><td>494.91</td><td>7.64</td><td>32521.63</td><td>11.61</td><td>1511.37</td><td>15.06</td></th<>	5.66 0.7187 7.69 7.9171 5		മം	8 6	0.0798	3.67	0.0774	7.53	494.91	7.64	32521.63	11.61	1511.37	15.06
5 9686         5 62         6 64         6 65         6 64         6 64         6 64         6 64         6 64         6 64         6 64         6 64         6 64         6 64         6 64         6 64         6 64         6 64         6 64         6 65         6 64         6 64         6 64         6 64         6 64         6 64         6 64         6 64         6 64         6 64         6 64         6 64         6 64         6 64         6 65         6 65         6 64         6 64         6 64         6 64         6 65         6 66         6 66         <	0.8306 1.36 218.3533		; <del>-</del>	2 86	1.9097	1.90	1.3187	2.34	6885.17	3.79	5473.61	3.96	17046.84	4.68
0.4827         3.32         0.4415         4.03         2461.29         6.64         4057.56         6.55         5865.08           0.9921         6.34         0.2489         5.93         4427.5         1.67         4690.45         12.44         450.68           0.3808         1.70         0.3666         1.30         3785.41         6.56         5465.0           0.3086         1.70         0.3577         2.24         1842.09         3.40         3785.46         5.66         6.06.44           1.80036         3.55         0.6577         4.77         2.80.98         6.33         464         5.66         6.96         6.06           1.80036         3.55         0.6577         4.77         2.80.98         6.33         4.68         6.96         6.06         6.06           0.5904         3.65         0.836.14         9.77         2.80.98         6.33         4.68         6.96         7.01         7.01           0.5904         3.65         0.890.18         6.33         4.64         9.66         6.96         7.01         7.01         7.01         7.01         7.01         7.01         7.01         7.01         7.01         7.01         7.01         7.01			2	7	5.9695	2.62	5.1510	3.22	12515.98	5.25	6633.59	5.43	36822.46	6.45
0.3666         3.34         0.2489         5.93         4442.75         1.267         480.45         1.244         456.58           0.3666         3.37         0.3075         4.00         1965.63         3.40         377.51         6.85         5495.10           0.3386         1.70         0.3477         2.24         1892.09         3.40         375.46         3.86         6108.41           1.50003         2.32         8.3584         2.02         1832.89         4.46         7.70         5.08         455.38 91           0.65904         3.16         0.6477         2.47         377.52         4.26         7.01         5.08         5.69         4.528.81           1.3002         4.35         0.6477         2.76         2.28         4.266.77         5.06         4.528.81           0.4504         1.57         0.708         2.29         1.407         3.74         4.606.77         3.61         1.007.76           0.4507         2.40         1.67         0.278         2.28         4.616.76         3.84         6.01         1.007.74         4.508.60         1.007.74         4.508.60         1.007.74         4.508.60         1.007.74         4.508.60         1.007.74         4.	0.8382 3.59 53.4059		6	.27	0.4627	3.32	0.3415	4.03	2451.29	6.64	4057.95	6.55	5955.08	8.07
0.3856         3.37         0.3075         4.00         1966.63         6.75         378.754         6.65         6.435.10           0.3308         1.70         0.3877         2.02         1966.63         6.75         378.46         378.46         378.46         378.46         378.46         378.46         378.46         378.46         378.46         378.46         378.47         5.08         453.60         1002.76         4.77         377.58         7.10         2049.96         6.90         1002.76         4.44         4.07         280.08         6.33         4268.87         6.00         473.48         4.07         280.08         6.33         6.049.96         6.90         413.58         1002.76         3.00         450.08         464         7806.41         5.00         450.08         450.08         450.08         450.08         450.00         1002.76         1002.76         3.00         450.00         1002.76         3.00         450.00         1002.76         3.00         450.00         1002.76         3.00         450.00         450.00         450.00         450.00         450.00         450.00         450.00         450.00         450.00         450.00         450.00         450.00         450.00         450.00         <	0.8546 7.43 116.5797		9	52	0.9921	6.34	0.2489	5.93	4442.75	12.67	4840.45	12.44	4505.98	11.87
0.0938         170         0.3557         2.24         1842.09         3.40         3735.46         3.86         6108.44           0.0938         3.55         0.0507         4.77         220.08         6.33         4.26.87         5.06         45328.9           0.0903         3.55         0.0507         4.77         290.08         6.33         4.26.87         5.06         45328.9           0.5904         3.16         0.047         4.77         290.08         6.33         4.26.87         5.06         45328.9           1.0308         4.56         0.057         4.77         1.70         2049.86         6.96         1007.74           0.4026         2.78         1.71         1.2076.6         2.29         1920.50         3.15         384.76         5.96         5710.18           0.4026         2.97         1.22         1.22         1.22         1.22         3.44         4.90         387.75         3.22         4.86         0.00         3.41         387.75         3.22         4.86         0.01         2.28         4.40         3.44         4.90         0.01         1.90         3.44         4.90         0.01         1.90         3.44         4.86         3.14 <td>0.8288 3.80 40.6843</td> <td></td> <td>· Θ</td> <td>43</td> <td>0.3565</td> <td>3.37</td> <td>0.3075</td> <td>4.00</td> <td>1965.63</td> <td>6.75</td> <td>3787.51</td> <td>6.85</td> <td>5435.10</td> <td>8.01</td>	0.8288 3.80 40.6843		· Θ	43	0.3565	3.37	0.3075	4.00	1965.63	6.75	3787.51	6.85	5435.10	8.01
1,000,00         2,22         0,050,4         4,77         1,050,00         4,00         1,000,00	1.55 0.8456 1.63 38.6014 1		— (·	. 93	0.3308	1.70	0.3517	2.24	1842.09	3.40	3735.46	3.86	6108.44	4.48
0.5804         3.16         0.4344         4.07         2990.98         6.33         4268.87         6.20         7311.58           1.3039         4.95         0.8172         4.91         5380.11         9.89         5066.01         10.51         7311.58           3.9243         1.92         2.7561         2.17         10276.0         3.18         5.94         5.94         5.96         5710.14           0.3476         1.52         0.2789         2.29         1201.13         3.84         5.94         3874.76         5.96         5710.14           0.1547         3.01         0.1834         3.65         927.49         6.01         2980.28         6.12         4986.00           0.1547         3.01         0.1834         3.65         927.49         6.01         2980.28         6.12         4986.00           0.1547         3.01         0.1834         3.65         927.49         6.01         3775.72         3412.96         5710.00           0.15490         1.67         0.1750         3.13         4181.85         3.24         4461.00         3.24         4986.00           0.05490         1.67         0.128         3.24         401.00         3.44         51	0.7849 4.72 6.5301		(1)		0.0603	3.55	0.0507	4.77	377.58	7.10	2049.96	96.9	1002.76	9.54
13039         495         08172         491         5380.11         989         5006.01         10.51         1210.71.4           3.9243         1.92         2.7561         2.17         10276.67         3.83         6214.50         3.61         26824.63           0.4026         2.97         0.2759         2.29         120.13         5.94         387.47         5.96         570.10           0.3471         1.57         0.2759         2.29         120.13         5.94         387.42         5.96         570.10           0.1547         3.01         0.1834         3.65         927.49         6.01         2960.28         6.12         4986.03           0.1547         3.01         0.1834         3.65         927.49         6.01         2960.28         6.12         4986.03           0.1547         1.67         0.6447         2.28         4032.07         3.74         4660.58         4.12         10065.21           0.7060         1.67         0.1754         8.86         3042.69         3.34         461.05         3.44         6.12         3.42         500.02           0.0549         3.75         0.102         4.33         451.15         4461.05         3.44 <td>0.8104 3.03 65.9670</td> <td></td> <td>(-)</td> <td>3.10</td> <td>0.5904</td> <td>3.16</td> <td>0.4344</td> <td>4.07</td> <td>2990.98</td> <td>6.33</td> <td>4268.87</td> <td>6.20</td> <td>7311.59</td> <td>8.13</td>	0.8104 3.03 65.9670		(-)	3.10	0.5904	3.16	0.4344	4.07	2990.98	6.33	4268.87	6.20	7311.59	8.13
389243         192         27561         2.17         1027667         3.83         6514,50         3.61         28824.63           0.4026         2.97         0.3254         3.92         2181.13         5.94         3874.76         5.96         5710.18           0.3471         1.57         0.2364         3.92         1927.49         601         2960.28         6.12         340.56           0.1547         3.01         0.1834         3.65         927.49         601         2960.28         6.12         4966.02           0.647         1.28         4032.07         3.74         4690.58         4.12         10086.21           0.7060         1.67         0.5612         1.99         3.40         4690.58         4.12         10086.21           0.7060         1.67         0.5612         1.99         3.40         4690.58         4.12         10086.21           0.7060         1.67         0.5612         4.03         3.40         4690.58         4.12         10086.21           0.7060         1.68         3.04         3.40         4690.58         4.12         10086.21           0.7076         4.21         0.1203         4.33         451.55         7.49 <td>0.8402 1.21 150.2308</td> <td></td> <td></td> <td>5.25</td> <td>1.3039</td> <td>4.95</td> <td>0.8172</td> <td>4.91</td> <td>5380.11</td> <td>9.89</td> <td>5096.01</td> <td>10.51</td> <td>12107.14</td> <td>9.82</td>	0.8402 1.21 150.2308			5.25	1.3039	4.95	0.8172	4.91	5380.11	9.89	5096.01	10.51	12107.14	9.82
0.3471         1.57         0.2024         0.2014         0.0014 <td>1.96 0.8374 0.85 454.0226 1.</td> <td></td> <td>← ς</td> <td>8 8</td> <td>3.9243</td> <td>1.92</td> <td>2.7561</td> <td>3.92</td> <td>10276.67</td> <td>3.83</td> <td>6214.50 3874.76</td> <td>3.61</td> <td>26824.63</td> <td>4.33</td>	1.96 0.8374 0.85 454.0226 1.		← ς	8 8	3.9243	1.92	2.7561	3.92	10276.67	3.83	6214.50 3874.76	3.61	26824.63	4.33
0.1547         3.01         0.1834         3.65         927.49         6.01         2990.28         6.12         3412.96           0.8891         1.87         0.6447         2.28         4032.07         3.74         4690.88         4.12         10086.21           0.3467         1.70         0.3815         2.13         1918.95         3.40         3804.0         3.40         10086.21           0.7060         1.67         0.3612         2.13         1918.95         3.40         3694.0         3.40         10086.21           0.7060         1.67         0.3612         8.80         3005.63         14.08         4461.05         3.34         10086.21           0.0726         3.75         0.1203         4.31         4.61.05         3.34         5020.06         2380.76           0.0737         4.21         0.0193         6.53         382.91         8.41         7.28         3.06         3.00.71           0.016         5.24         0.0010         6.54         9.78         6.44         7.28         9.06         7.04         9.06         7.04         9.06         7.04         9.06         9.06         9.06         9.06         9.06         9.06         9.06	0.8388 1.67 40.2032		• •	. 19:	0.3471	1.57	0.2789	2.29	1920.50	3.15	3775.72	3.22	4986.00	4.58
0.8691         1.87         0.6447         2.28         4032.07         3.74         4690.86         4.12         10086.21           0.3467         1.70         0.3816         2.13         1918.95         3.40         3.40         0.694.0         3.40         10086.21           0.7060         1.67         0.5812         1.99         3443.26         3.44         461.05         3.34         1025.36           0.6540         7.44         0.1263         4.63         3.64         4.61.05         3.34         6.55.36           0.0776         3.75         0.1203         4.51         7.49         2.299.79         6.54         2.392.71           0.0789         4.21         0.0192         6.53         4.41         6.54         2.392.71         6.54         2.392.41           0.0789         4.22         0.0192         6.54         7.29         6.54         2.302.41         7.06         2.392.41           0.0710         6.04         9.04         6.54         7.24         7.06         7.24         7.06         7.07           0.081         7.44         0.0007         6.04         9.02         6.24         2.248.0         7.94         7.06         7.04 <td>0.8311 3.27</td> <td>17.8240</td> <td></td> <td>3.06</td> <td>0.1547</td> <td>3.01</td> <td>0.1834</td> <td>3.65</td> <td>927.49</td> <td>6.01</td> <td>2980.28</td> <td>6.12</td> <td>3412.96</td> <td>7.31</td>	0.8311 3.27	17.8240		3.06	0.1547	3.01	0.1834	3.65	927.49	6.01	2980.28	6.12	3412.96	7.31
0.3467         1.70         0.3816         2.13         1918.95         3.40         3809.40         3.40         6255.36           0.7060         1.67         0.5612         1.99         3443.26         3.34         4661.05         3.34         9029.06           0.5740         7.44         0.1264         8.65         3043.26         14.08         472.36         13.39         2393.74           0.0776         4.21         0.0193         6.53         362.91         8.42         2299.79         6.54         2392.41           0.0776         4.21         0.0193         6.53         362.91         8.41         763.19         10.06         380.74           0.0108         4.20         0.0192         6.54         97.82         16.29         380.74         10.06         380.74         175.96           0.0108         3.13         0.041         3.06         16.25         2.48         9.64         177.56         175.96           0.0267         1.44         0.2006         1.65         152.28         2.87         2.48.30         5.73         187.56           0.0267         2.62         0.0411         3.06         1.62         2.248.30         5.73         187.59 </td <td>0.8365 1.61</td> <td>100.4451</td> <td></td> <td>5.06</td> <td>0.8691</td> <td>1.87</td> <td>0.6447</td> <td>2.28</td> <td>4032.07</td> <td>3.74</td> <td>4690.58</td> <td>4.12</td> <td>10085.21</td> <td>4.57</td>	0.8365 1.61	100.4451		5.06	0.8691	1.87	0.6447	2.28	4032.07	3.74	4690.58	4.12	10085.21	4.57
0.0700         1.67         0.3012         1.89         3042.0         3.54         4401.00         3.54         4001.00         3.54         4001.00         3.54         4001.00         3.54         4001.00         3.54         4001.00         3.54         4001.00         3.54         4001.00         3.54         302.00         3.54         4001.00         3.54         302.01         3.54         4001.00         3.54         302.01         3.54         302.01         3.54         302.01<	1.71 0.8691 1.85 41.5928	41.5928		1.70	0.3467	1.70	0.3615	2.13	1918.95	3.40	3809.40	3.40	6255.36	4.27
0.0756         3.75         0.1033         4.33         4.615         7.49         2.296.70         6.54         2.020.70           0.0759         4.21         0.0193         6.53         362.91         8.42         2.086.07         8.06         386.76           0.0108         4.20         0.0192         5.57         6.60         8.41         7.63.19         10.06         2.04.80           0.0108         7.64         0.0047         5.64         97.82         15.29         2.48.30         5.73         817.76           0.0881         3.13         0.0441         3.96         5.24         2.248.30         5.73         817.76           0.0868         2.62         0.0441         3.06         5.24         2.09.31         5.79         816.34           0.0860         2.62         0.0441         3.06         5.24         2.093.91         5.79         816.34           0.0860         2.62         0.0441         3.06         6.62         1.402         3.637.18         2.94         3705.00           0.0860         2.62         0.0441         3.06         6.62         1.62         4.97         3.64.12         1.75.96           0.0441         2.01	0.8202 1.82 7.8.9201 0.82 7.8.9201			70.7	0.7080	7 0.4	0.3612	- 8 6 8 8 9	3005.63	14 08	4461.05	5.05	9029.00	17.72
0.0579         4.21         0.0193         6.53         9.6291         8.42         0.08607         8.06         386.76         7.00         9.00	0.8631 4.25 8.6307			3.27	0.0726	3.75	0.1203	4.33	451.55	7.49	2299.79	6.54	2302.41	8.66
0.0108         4.20         0.0102         5.57         69.08         8.41         763.19         10.06         204.80         17.58         10.06         10.06         10.06         204.80         17.59         10.06         10.06         10.06         10.06         10.06         10.06         17.59         10.06         10.06         17.59         10.06         17.59         <	5.60	6.8180		4.03	0.0579	4.21	0.0193	6.53	362.91	8.42	2088.07	8.06	386.76	13.07
0.0153         7.64         0.0087         6.04         97.82         15.29         100.061         13.12         175.96         1           0.0881         3.13         0.0441         3.93         544.40         6.25         248.30         5.73         175.96         1           0.0881         2.44         0.2006         1.65         1529.28         2.87         2.94         3705.00         817.76           0.0040         2.62         0.0441         3.06         5.24         2.933.18         5.79         816.34         3705.00           0.0143         3.61         0.0140         6.52         91.53         7.21         881.25         7.84         222.14         916.34           0.0300         7.01         0.0303         6.06         190.73         14.02         150.853         13.94         604.12         17.84           0.0189         2.48         0.0541         2.82         1006.29         4.97         3090.07         4.98         1008.71         10.88.71           0.0200         9.34         0.0122         8.82         127.80         18.68         11.94         18.20         36.48         11.48         10.48         10.44         10.43         10.44	0.7517 9.20	1.1204		5.03	0.0108	4.20	0.0102	5.57	80.69	8.41	763.19	10.06	204.80	11.14
0.0881         3.13         0.0441         3.83         5.44.40         6.25         2.48.30         5.73         817.76           0.2667         1.44         0.2006         1.65         1529.28         2.87         3537.18         2.94         3705.00           0.0698         2.62         0.0441         3.06         380.56         5.24         2033.91         5.79         816.34           0.0300         7.01         0.0303         6.06         190.73         14.02         1508.53         13.94         604.12         17.04           0.1689         2.48         0.0541         2.82         1006.29         4.97         3090.07         4.98         1008.71         1008.71           0.0200         3.54         0.0273         4.58         111.92         7.08         111.22         6.95         545.15           0.0206         5.99         0.0175         7.41         131.51         11.99         19.20         304.48         1068.71           0.0446         5.26         0.045         7.41         131.51         11.99         13.34         10.43         671.48         17.96           0.139         1.042         0.0562         9.02         7.99         2.084 </td <td>0.7924 5.23 1.6790</td> <td>_</td> <td>•</td> <td>3.56</td> <td>0.0153</td> <td>7.64</td> <td>0.0087</td> <td>6.04</td> <td>97.82</td> <td>15.29</td> <td>1000.61</td> <td>13.12</td> <td>175.96</td> <td>12.08</td>	0.7924 5.23 1.6790	_	•	3.56	0.0153	7.64	0.0087	6.04	97.82	15.29	1000.61	13.12	175.96	12.08
0.0608         2.64         0.2006         1.65         1.629.28         2.87         3837.18         2.94         3705.00           0.0608         2.62         0.0411         3.06         380.56         5.24         2.94         3705.00           0.043         3.61         0.0411         6.52         98.0.56         7.21         981.25         7.84         22.14         1           0.0300         7.01         0.0303         6.06         190.73         14.02         1508.53         13.94         664.12         1           0.0175         3.54         0.0273         4.58         111.92         7.08         1111.23         6.95         545.15           0.0200         9.34         0.0127         4.58         11.19         1.28         1088.71         245.48         1           0.0206         5.99         0.0137         7.41         131.51         1.79         1.234.41         10.43         81.20         245.48         1           0.0446         5.26         0.0337         5.32         221.61         1.79         1.752.28         20.18         1279.52         1           0.0244         3.64         0.0120         7.90         1.66.96         2.0	0.8343 3.72 10.1474			2.86	0.0881	3.13	0.0412	3.93	544.40	6.25	2448.30	5.73	817.76	7.85
0.0608         2.62         0.0411         3.06         380.56         5.24         2003.34         5.79         816.34           0.0143         3.61         0.0110         6.52         91.53         7.21         991.25         7.84         222.14         1           0.0300         7.01         0.0303         6.62         19.53         4.97         3090.07         7.88         69.51         1         9.8         1	0.8538 1.33 31.5766		_	.47	0.2677	1.44	0.2006	1.65	1529.28	2.87	3537.18	2.94	3705.00	3.30
0.0143         3.61         0.0110         6.52         91.53         7.21         981.25         7.84         222.14         1           0.0300         7.01         0.0303         6.06         190.73         14.02         1509.65         7.84         22.14         1           0.1689         2.48         0.0541         2.82         1006.29         4.97         3090.07         4.98         1088.71           0.0175         3.54         0.0723         8.28         17.192         7.08         1111.23         6.95         545.15           0.0206         5.99         0.0172         8.82         127.80         18.68         1234.41         9.92         304.48           0.0446         5.26         0.0337         5.32         281.50         10.52         1831.14         10.43         671.45         1           0.139         10.42         0.0652         9.02         798.90         20.84         2755.28         20.18         1279.52         1           0.0264         3.64         0.0120         5.00         168.00         7.29         1368.96         7.90         20.16         1         1	0.8173 3.28 6.8632		7	06	0.0608	2.62	0.0411	3.06	380.56	5.24	2093.91	5.79	816.34	6.11
0.0300         7.01         0.0333         6.06         190.73         14.02         150.85         13.94         604.12         1           0.1689         2.48         0.0641         2.82         1006.29         4.97         3090.07         4.98         1088.71           0.0175         3.54         0.0273         4.58         111.92         7.08         111.23         6.95         545.15           0.0206         5.99         0.0123         7.41         131.51         11.99         19.20         245.48         17.45           0.0446         5.26         0.0337         5.32         281.50         10.52         1831.14         10.43         671.45         14.5           0.139         10.42         0.0652         9.02         798.90         2.084         275.28         20.18         1279.52         14.5           0.0264         3.64         0.0120         5.00         168.00         7.29         1368.96         7.90         20.18         1779.52         1	0.8377 4.62 1.6284		က	92	0.0143	3.61	0.0110	6.52	91.53	7.21	981.25	7.84	222.14	13.04
0.1689         2.48         0.0541         2.82         1006.29         4.97         3090.07         4.98         1068.71           0.0175         3.54         0.0273         4.58         111.92         7.08         111.23         6.95         545.15           0.0200         0.032         2.012         8.82         127.80         18.68         1084.19         18.20         545.48         1           0.0206         5.99         0.0153         7.41         13.51         11.99         1234.41         9.92         308.45         1           0.0446         5.56         0.0537         5.32         281.50         10.52         1831.14         10.43         671.45         179.52           0.1319         10.42         0.0652         90.2         798.90         20.84         275.28         20.18         1279.52         1           0.0264         3.64         0.0120         5.00         168.00         7.29         1368.96         7.90         20.16         1	0.8231 3.90 3.4180		9	26	0.0300	7.01	0.0303	90.9	190.73	14.02	1508.53	13.94	604.12	12.11
0.0775         3.54         0.0273         4.58         111.92         7.08         1111.23         6.95         545.15           0.0200         9.34         0.0122         8.82         127.80         18.68         1084.19         18.20         245.48         1           0.0206         5.99         0.0152         7.41         131.51         11.99         1234.41         9.92         308.45         1           0.046         5.26         0.0337         5.32         221.50         10.52         1831.44         10.43         671.45         671.45           0.139         10.42         0.0852         9.02         789.90         2.0.84         275.28         20.18         1279.52         1279.52           0.0264         3.64         0.0120         5.00         168.00         7.29         1368.96         7.90         241.61         1	0.8577 2.81 19.9735		•	2.49	0.1689	2.48	0.0541	2.82	1006.29	4.97	3090.07	4.98	1068.71	5.64
0,0200         934         0,012         8.82         177.80         18.68         1094.19         18.20         245.48           0,0206         5.99         0,0153         7.41         131.51         11.99         1234.41         9.92         308.45           0,046         5.26         0,037         5.32         281.50         10.52         1831.14         10.43         671.45           0,1319         10.42         0,0682         9.02         788.90         20.84         2756.28         20.18         1279.52           0,0264         3.64         0,0120         5.00         168.00         7.29         1368.96         7.90         241.61	0.8215 4.68	1.9874		3.47	0.0175	3.54	0.0273	4.58	111.92	7.08	1111.23	6.95	545.15	9.15
0.0266         5.99         0.0153         7.41         131.51         11.99         1234.41         9.92         308.45           0.0446         5.26         0.0337         5.32         281.50         10.52         1831.14         10.43         671.45           0.1319         10.42         0.0652         9.02         788.90         20.84         2755.28         20.18         1279.52           0.0264         3.64         0.0120         5.00         188.00         7.29         1368.96         7.90         241.61	0.7074 8.75	1.9377		9.10	0.0200	9.34	0.0122	8.82	127.80	18.68	1094.19	18.20	245.48	17.64
0.0446 5.26 0.0337 5.32 281.50 10.52 1831.14 10.43 671.45 671.45 0.1319 10.42 0.0652 9.02 788.90 20.84 2755.28 20.18 1279.52 0.0264 3.64 0.0120 5.00 168.00 7.29 1368.96 7.30 241.61	0.8316 6.66	2.3727		4.96	0.0206	5.99	0.0153	7.41	131.51	11.99	1234.41	9.92	308.45	14.83
0.1319 10.42 0.0652 9.02 798.90 20.84 2755.28 20.18 1279.52 7 0.0264 3.64 0.0120 5.00 168.00 7.29 1368.96 7.90 241.61 7	0.8252 3.10 5.0702	2		5.21	0.0446	5.26	0.0337	5.32	281.50	10.52	1831.14	10.43	671.45	10.63
0,0264 3,64 0,0120 5,00 168,00 7,29 1368,96 7,90 241,61	0.7792 6.08 14.0825			60.0	0.1319	10.42	0.0652	9.02	798.90	20.84	2755.28	20.18	1279.52	18.05
	3.56 0.7828 4.78 2.8506			3.95	0.0264	3.64	0.0120	5.00	168.00	7.29	1368.96	7.90	241.61	10.00

Appendix B: Eastern Sunda arc geochronology data - apatite

Analysis ID	238U/206Pb	18%	207Pb/206Pb	18%	207Pb/235U (calc) ratio	18%	206Pb/238U	18%	208Pb/232Th	18%	206Pb/238U Age (Ma)	2s%	207Pb/235U (calc) Age (Ma)	28%	208Pb/232Th Age (Ma)	25%
ELF-01 ap23	34.35	3.69	0.7382	4.94	2.9702	4.09	0.0292	4.67	0.0128	5.17	185.83	9.33	1400.03	8.17	257.24	10.34
ELF-01 ap24	50.84	3.43	0.8675	3.43	2.3542	3.39	0.0197	3.45	0.0057	4.09	125.67	6.91	1228.82	6.77	115.67	8.18
ELF-01 ap25	3.45	2.92	0.8106	3.37	32.1408	3.63	0.2896	3.37	0.2849	6.22	1639.53	6.75	3554.62	7.25	5081.50	12.44
ELF-01 ap26	12.85	2.96	0.7812	3.38	8.4418	2.75	0.0779	2.89	0.0435	3.52	483.67	5.79	2279.69	5.50	863.37	7.04
ELF-01 ap27	27.07	3.03	0.7705	4.00	3.9410	3.03	0.0371	3.11	0.0209	3.67	234.63	6.21	1622.13	90.9	419.14	7.33
ELF-01 ap28	40.91	4.09	0.8421	5.45	2.8487	3.92	0.0244	4.12	0.0146	4.92	155.52	8.24	1368.46	7.84	294.15	9.82
ELF-01 ap29	27.93	9.23	0.7769	7.39	3.8315	8.31	0.0361	7.30	0.0150	8.54	228.88	14.61	1599.39	16.62	302.30	17.07
ELF-01 ap3	37.15	3.35	0.7621	3.83	2.8641	3.99	0.0271	3.50	0.0146	4.00	172.20	7.07	13/2.53	86.7	294.02	8.00
ELF-01 ap30	43.33	98.4	0.8598	3.37	2.7615	4.09	0.0232	4.26	0.0128	5.09	147.86	8.53	1345.21	8 . d	256.81	10.17
ELF-01 ap31	21.36	6.20	0.8435	3.41	5.4733	5.30	0.0466	5.20	0.0068	6.58	293.91	10.41	1896.41	10.61	138.10	13.16
ELF-01 ap32	22.72	4.46	0.8162	5.99	4.9064	4.65	0.0437	5.11	0.0204	5.44	275.71	10.22	1803.36	9.30	408.77	10.89
ELF-01 ap4	36.18	4.39	0.7864	5.92	2.9887	4.92	0.0279	4.81	0.0339	6.86	177.43	9.63	1404.75	9. c	676.25	13.71
ELF-01 app	19.20	70.0	0.8234	0.08	.4343	9 9	0.0126	62.4	0.0078	4. 0	90.86	9, 0	903.33	<u>n</u> 0	157.41	9. 6
ELF-01 ap/	104.36	4.95 C 10	0.7373	0.77	0.9758	4.93	0.0095	26.4	0.0065	0.3	61.22	\$ 5	691.43	98.5	131.29	12.63
ELF-01 ap8	114.22	4.87	0.7449	7.02	0.9055	6.21	0.0087	5.51	0.0039	5.84	56.05	11.01	654.67	12.42	79.28	11.68
ELF-01 ap9	89.63	2.00	0.7874	6.13	1.2183	60.7	0.0113	6.79	0.0064	84.8	334.45	3.58	1941.35	15.19	128.86	98.91
ELF-02 ap1	18.02	3 5	7.81.0	. d	9.7002	9 6	0.0033	5. 6	0.0103	1 00	447.40	0.00	1941.33	2.0	1440.03	0.00
ELF-02 ap10	75.5	0.9	0.0932		5 1204	2.30	0.0715	7 24	0.0130	2.30 2.40 2.40	2007	24.48	1840 98	14.50	933.30	16.26
ELF-02 ap11	28.16	5.4	0.7254	. a	0.1234	5. 5	0.0403	1 80	0.047	- w	166 84	+ o	1352.46	6. G	953.39	17.34
ELF-02 ap12	36.10	+ · · ·	0.7.01	0.0	2.7 863	0 ç	0.0262	4.00 7 a k	0.0432	0.00	100.04	9.00	3879.00	9.02	21.30	5.5
ELF-02 ap13	77.17	3.66	0.8301	0.40	16.0369	3.76	0.1398	4.07	0.0336	20.7	045.49	6. 13 10. 13	1641 41	7.52	713.02	4 %
El F-02 ap15	72.54	2 48	0.8041	2.41	1.5243	07.0	0.033	2 94	0.0233	305	88.02	9 6	940.23	2 2	294.82	7 94
ELF-02 ap16	21.82	8.50	0,8058	3.20	5.0948	8.00	0.0459	7.22	0.0247	9.01	289.43	14.43	1835.24	15.99	493.93	18.02
ELF-02 ap17	23.06	4.13	0.8152	5.61	4.8748	4.19	0.0433	4.28	1.4115	9.59	273.04	8.55	1797.92	8.39	17842.47	19.19
ELF-02 ap18	66.28	5.28	0.8135	5.41	1.7073	5.87	0.0152	5.74	0.0118	5.65	96.95	11.47	1011.28	11.73	238.14	11.30
ELF-02 ap19	96.9	3.43	0.8211	2.61	16.2951	3.91	0.1435	3.50	0.0360	3.75	864.66	6.99	2894.27	7.83	716.24	7.50
ELF-02 ap2	14.58	5.17	0.7903	3.34	7.4786	4.90	0.0685	5.05	0.0233	5.44	426.92	10.11	2170.43	9.80	467.50	10.88
ELF-02 ap20	63.42	6.55	0.7390	5.32	1.6346	6.52	0.0160	6.49	0.0145	6.94	102.20	12.99	983.64	13.04	292.60	13.88
ELF-02 ap21	13.24	4.85	0.8759	4.16	9.0162	6.36	0.0752	6.04	0.0476	5.72	467.36	12.07	2339.65	12.73	943.30	4.1.
ELF-02 ap22	1.85	1.99	0.8362	1.92	62.6158	2.08	0.5429	1.98	0.2175	2.95	2795.46	3.96	4216.75	4.16	3989.20	5.91
ELF-02 ap23	31.71	8.55	0.8431	2.39	3.6412	6.67	0.0313	6.29	0.0104	8.14	198.85	12.59	1558.59	13.34	210.25	16.27
ELF-02 ap24	3.56	2.54	0.8654	2.90	33.0733	2.59	0.2803	2.89	0.9980	3.60	1593.04	5.79	3582.79	5.18	14029.36	7.20
ELF-02 ap25	15.10	2.94	0.7663	3.00	7.0132	3.33	0.0660	3.27	0.0158	6.10	411.71	6.54	2113.10	29.9	317.52	12.19
ELF-02 ap26	19.30	2.61	0.7815	3.33	5.4652	3.24	0.0515	2.96	0.0574	3.23	323.78	5.92	1895.15	6.48	1130.84	6.46
ELF-02 ap27	15.56	3.53	0.8062	3.49	7.0291	3.31	0.0639	4.09	0.0790	7.06	399.31	8.18	2115.12	6.62	1540.92	14.12
ELF-02 ap28	18.30	5.70	0.8055	2.88	6.0679	4.67	0.0552	5.28	0.0283	5.36	346.25	10.56	1985.64	9.33	564.89	10.71
ELF-02 ap29	6.98	 	0.8199	2.75 5.05 5.05 5.05 5.05 5.05 5.05 5.05 5	16.27.94	27.2	0.1434	7.7.2	0.0329	2.83	864.07	22.4	2893.35	4.20	656.86	2.67
ELF-02 apo	0+:0	2.40	0.0000	2.00	0.0103	2 1 0	64.000	0.4	0.0241	5 1	4.004	5 5	00.1622	5 1	402.00	0.20
ELF-02 ap30	40.5	2.03	0.8065	77.7	11.3967	2.73	0.1034	2.43	4.2350	5.44	634.23	9.80	2556.16	5.49	33553.94	10.88
ELF-02 ap31	1.14	4.57	0.8211	2.86	100.2079	4.31	0.8856	4.12	0.3440	6.15	4088.72	8.25	4688.20	8.62	5993.20	12.30
ELF-02 ap32	8.01	4.96	0.8369	2.38	14.4354	5.43	0.1250	5.90	0.0251	7.44	759.29	11.80	2778.76	10.86	501.51	14.89
ELF-02 ap33	10.39	2.12	0.8416	2.69	11.0975	2.61	0.0965	2.27	0.2831	2.76	593.84	4.53	2531.35	5.22	5052.83	5.52
ELF-02 ap4	22.37	4.48	0.8601	2.55	5.3408	2.90	0.0449	2.18	0.0254	4.72	283.24	10.36	1875.42	11.80	507.61	9.43
ELF-02 ap5	15.43	2.83	0.7595	3.58	6.8229	3.21	0.0652	3.07	1.0470	4.40	406.89	6.14	2088.70	6.42	14520.72	8.79
ELF-02 ap6	14.76	6.32	0.7448	4.25	6.9404	7.58	0.0677	6.08	0.0202	9.56	422.25	12.17	2103.84	15.15	405.10	19.12
ELF-02 ap7	19.90	27.78	0.7387	8.99	5.1740	22.20	0.0457	19.04	0.1830	21.41	287.85	38.07	1848.34	44.39	3406.49	42.83
ELF-02 ap8	č		1	1	1					1			0000			
ELF-02 ap9	6.31	4.04	0.7936	5.07	17.4535	4.06	0.1594	4.08	0.1423	7.40	953.50	8.15	2960.10	8.13	2696.54	14.80
LB026 ap1	19.30	7.50	0.7928	6.26	5.6082	4.60	0.0514	5.98	0.0024	6.57	323.15	11.96	1917.35	9.20	49.56	13.14

Appendix B: Eastern Sunda arc geochronology data - apatite

2s%	19.18	17.68	20.18	9.22	20.70	17.56	12.45	11.18	19.91	7.23	3.67	8.69	10.38	13.87	99.6	16.53	11.61	12.91	11.53	12.24	11.03	10.69	4.35	7.03	12.52	8.14	9.04	4.74	9.63	6.79	9.44	10.43	9.46	19.74	9.30	6.80	11.09	8.16	6.36	9.24	7.62	4.80	9.73	5.27	9.61	4.82	6.18	7.49	3.78	7.20
208Pb/232Th Age (Ma)	281.81	83.04	75.86	962.42	397.09	274.15	62.80	163.41	122.88	1117.06	1762.73	80.61	92.12	92.54	290.01	94.39	176.93	296.08	201.54	228.98	344.58	487.81	1322.33	493.95	121.35	324.00	212.13	1265.92	100.32	591.87	712.46	91.30	57.86	84.44	358.55	521.98	434.19	492.42	267.99	2995.64	1439.47	1564.59	879.47	1704.98	285.79	650.10	2297.38	489.93	702.13	529.71
2s%	16.16	14.55	15.49	8.32	23.79	16.53	12.35	11.58	15.89	4.36	2.70	9.31	9.22	13.86	7.72	14.82	10.16	7.78	9.77	8.74	10.08	10.70	4.10	6.32	10.93	6.84	7.53	4.72	8.37	7.12	8.44	7.98	7.61	17.57	2.06	6.85	11.82	6.30	6.55	9.08	6.39	4.50	9.28	5.34	8.82	4.46	5.16	5.72	3.75	6.20
207Pb/235U (calc) Age (Ma)	3073.86	1404.19	2792.77	2429.24	4072.21	3341.03	2090.30	1228.17	1223.15	2676.37	1794.78	1722.10	2232.31	2510.80	1644.19	2042.96	1136.87	2299.15	1257.55	1390.57	1641.37	1970.19	2318.53	1266.19	2894.01	1626.54	1659.73	2272.93	1412.50	1742.79	4026.72	2044.48	799.34	1652.68	1854.63	2768.43	1304.19	1686.83	1956.55	3318.81	3573.43	2687.08	2960.91	2490.42	901.28	1823.07	4123.47	1529.38	1966.69	1919.71
2s%	16.57	14.21	15.58	7.97	24.21	20.10	12.33	10.54	15.34	4.11	2.86	10.44	10.10	14.47	8.68	13.95	10.63	9.82	10.40	8.28	68.6	10.00	3.67	5.49	11.76	7.48	7.78	4.68	8.92	7.56	9.45	8.69	8.38	15.58	7.32	7.03	11.57	99.9	6.24	8.94	6.72	7.01	9.41	4.93	8.67	4.32	5.39	6.55	3.37	6.29
206Pb/238U Age (Ma)	939.19	190.54	836.47	576.61	2577.47	920.19	407.71	134.95	153.69	704.92	273.55	250.89	434.33	571.75	206.54	441.94	112.40	498.14	147.36	182.26	228.92	358.69	491.98	140.45	800.53	239.77	237.64	479.74	165.89	267.38	2442.40	372.58	77.55	320.33	299.19	761.38	148.48	238.86	326.09	1286.18	1610.08	749.62	909.49	575.18	84.49	273.55	2582.36	197.16	343.42	318.56
18%	9.59	8.84	10.09	4.61	10.35	8.78	6.22	5.59	9.95	3.62	1.83	4.35	5.19	6.93	4.83	8.26	5.81	6.46	5.76	6.12	5.52	5.35	2.17	3.51	6.26	4.07	4.52	2.37	4.82	3.39	4.72	5.22	4.73	9.87	4.65	3.40	5.55	4.08	3.18	4.62	3.81	2.40	4.87	2.64	4.81	2.41	3.09	3.75	1.89	3.60
208Pb/232Th ratio	0.0140	0.0041	0.0037	0.0486	0.0198	0.0136	0.0031	0.0081	0.0061	0.0567	0.0909	0.0040	0.0046	0.0046	0.0144	0.0047	0.0088	0.0298	0.0100	0.0114	0.0171	0.0244	0.0674	0.0247	09000	0.0161	0.0105	0.0644	0.0050	0.0296	0.0358	0.0045	0.0029	0.0042	0.0178	0.0261	0.0217	0.0246	0.0386	0.1593	0.0736	0.0802	0.0443	0.0878	0.0142	0.0326	0.1200	0.0245	0.0352	0.0265
1s%	8.29	7.10	7.79	3.98	12.11	10.05	6.17	5.27	7.67	2.06	1.43	5.22	5.05	7.23	4.34	6.97	5.31	4.91	5.20	4.14	4.95	2.00	1.84	2.74	5.88	3.74	3.89	2.34	4.46	3.78	4.71	4.35	4.19	7.79	3.66	3.52	5.78	3.33	3.12	4.47	3.36	3.50	4.71	2.46	4.34	2.16	2.69	3.28	1.69	3.15
206Pb/238U ratio	0.1568	0.0300	0.1386	0.0936	0.4916	0.1534	0.0653	0.0212	0.0241	0.1156	0.0433	0.0397	0.0697	0.0927	0.0326	0.0710	0.0176	0.0803	0.0231	0.0287	0.0361	0.0572	0.0793	0.0220	0.1322	0.0379	0.0376	0.0773	0.0261	0.0423	0.4606	0.0595	0.0121	0.0509	0.0475	0.1254	0.0233	0.0377	0.0519	0.2208	0.2837	0.1233	0.1515	0.0933	0.0132	0.0433	0.4927	0.0311	0.0547	0.0507
18%	8.08	7.27	7.75	4.16	11.90	8.27	6.17	5.79	7.95	2.18	1.35	4.66	4.61	6.93	3.86	7.41	5.08	3.89	4.89	4.37	5.04	5.35	2.05	3.16	5.47	3.42	3.76	2.36	4.18	3.56	4.22	3.99	3.81	8.79	3.53	3.42	5.91	3.15	3.28	4.54	3.19	2.25	4.64	2.67	4.41	2.23	2.58	2.86	1.87	3.10
207Pb/235U (calc) ratio	19.6412	2.9865	14.6498	9.9401	54.1752	25.8539	6.8352	2.3520	2.3355	12.9548	4.8567	4.4522	8.0114	10.8552	4.0495	6.4783	2.0638	8.6246	2.4504	2.9334	4.0355	5.9612	8.8100	2.4799	16.2906	3.9624	4.1273	8.3792	3.0193	4.5644	51.7578	6.4895	1.1973	4.0918	5.2123	14.2792	2.6126	4.2660	5.8683	25.2727	32.7604	13.1027	17.4683	10.6195	1.4294	5.0222	57.0325	3.5096	5.9372	5.6235
18%	10.28	9.87	10.09	5.64	13.54	11.54	8.27	6.98	10.78	2.31	1.24	5.96	6.28	9.39	5.93	9.68	7.12	4.65	6.62	5.51	5.40	5.16	2.04	3.91	7:37	5.80	4.21	2.32	2.06	2.72	3.77	5.37	5.11	11.33	3.15	1.41	7.80	4.23	2.57	1.65	3.06	3.33	4.70	1.69	4.10	2.54	1.48	2.95	1.75	2.25
207Pb/206Pb ratio	0.9117	0.7229	0.7691	0.7668	0.7980	1.1687	0.7651	0.8064	0.7040	0.8122	0.8124	0.8068	0.8309	0.8475	0.9062	0.6672	0.8625	0.7799	0.7698	0.7446	0.8135	0.7610	0.8089	0.8176	0.8932	0.7634	0.7958	0.7891	0.8402	0.7824	0.8149	0.7937	0.7153	0.5831	0.7984	0.8259	0.8073	0.8135	0.8238	0.8284	0.8401	0.7769	0.8394	0.8255	0.7848	0.8425	0.8395	0.8292	0.7913	0.8057
18%	8.18	8.84	7.80	3.90	11.93	9.91	6.12	4.66	7.59	1.92	1.33	5.14	5.03	7.28	3.84	6.93	5.33	3.83	4.89	4.05	4.12	4.01	1.83	2.50	7.12	3.75	3.21	2.18	4.20	3.31	4.52	4.06	3.71	7.77	3.13	3.43	4.52	3.29	2.80	4.19	2.96	2.32	4.04	2.55	3.43	2.17	2.74	2.72	1.66	2.70
238U/206Pb ratio	6.39	33.27	7.23	10.64	2.01	6.32	15.21	47.38	41.80	8.67	23.11	25.11	14.31	10.77	30.89	14.11	57.19	12.48	43.18	34.71	27.79	17.49	12.59	45.32	7.53	26.23	26.53	12.93	38.51	23.54	2.17	16.88	82.56	19.56	21.07	7.97	43.19	26.52	19.28	4.52	3.53	8.12	6.55	10.73	76.22	23.15	2.03	32.06	18.29	19.92
Analysis ID	LB026 ap10	LB026 ap11	LB026 ap12	LB026 ap13	LB026 ap14	LB026 ap15	LB026 ap16	LB026 ap17	LB026 ap18	LB026 ap19	LB026 ap2	LB026 ap20	LB026 ap21	LB026 ap22	LB026 ap23	LB026 ap24	LB026 ap25	LB026 ap26	LB026 ap27	LB026 ap28	LB026 ap29	LB026 ap3	LB026 ap30	LB026 ap31	LB026 ap32	LB026 ap33	LB026 ap34	LB026 ap35	LB026 ap4	LB026 ap5	LB026 ap6	LB026 ap7	LB026 ap8	LB026 ap9	NAF-01 ap1	NAF-01 ap10	NAF-01 ap11	NAF-01 ap12	NAF-01 ap13	NAF-01 ap14	NAF-01 ap15	NAF-01 ap16	NAF-01 ap17	NAF-01 ap18	NAF-01 ap19	NAF-01 ap2	NAF-01 ap20	NAF-01 ap21	NAF-01 ap22	NAF-01 ap23

Appendix B: Eastern Sunda arc geochronology data - apatite

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0.046         2.1         6.046         2.8         0.084         3.1         6.044         3.1         6.044         3.1         6.044         3.1         6.044         3.0         6.044         3.0         6.044         3.0         6.044         3.0         6.044         4.0         6.0         0.0         4.0         6.0         4.0         6.0         4.0         6.0         4.0         6.0         4.0         6.0         4.0         6.0         4.0         6.0         4.0         6.0         4.0         6.0         4.0         6.0         4.0         6.0         7.0         6.0         4.0         6.0         7.0         6.0         7.0         6.0         7.0         6.0         7.0         6.0         7.0         6.0         7.0         6.0         7.0         6.0         7.0         6.0         7.0         6.0         7.0         6.0         7.0         6.0         7.0 <th></th> <th></th> <th>7 Pb/206Pb ratio</th> <th>18%</th> <th>207Pb/235U (calc) ratio</th> <th>18%</th> <th>206Pb/238U ratio</th> <th>1s%</th> <th>-</th> <th>18%</th> <th>206Pb/238U Age (Ma)</th> <th>2s%</th> <th>20 7Pb/235U (calc) Age (Ma)</th> <th>2s%</th> <th>208Pb/2321n Age (Ma)</th> <th>2s%</th>			7 Pb/206Pb ratio	18%	207Pb/235U (calc) ratio	18%	206Pb/238U ratio	1s%	-	18%	206Pb/238U Age (Ma)	2s%	20 7Pb/235U (calc) Age (Ma)	2s%	208Pb/2321n Age (Ma)	2s%
0.002         2.1         5.1         6.11         2.1         6.002         1.0         6.002         3.0         6.002         3.0         6.002         3.0         6.002         3.0         6.002         3.0         6.002         6.0		2.43	0.7945	2.01	6869'6	2.80	0.0883	2.85	0.0814	3.13	545.47	5.70	2406.60	2.60	1586.39	6.26
2.2.         CORNERS         3.15         6.842         1.37         COTOM         2.92         CORNERS         3.15         6.842         1.37         COTOM         2.92         CORNERS         3.15         6.842         1.37         COTOM         4.92         6.92         4.92         6.92         4.92         6.92         4.92         6.92         4.92         6.92         4.92         6.92 <td></td> <td>1.82</td> <td>0.8012</td> <td>2.11</td> <td>5.1291</td> <td>2.15</td> <td>0.0464</td> <td>1.81</td> <td>0.0273</td> <td>2.16</td> <td>292.28</td> <td>3.62</td> <td>1840.93</td> <td>4.30</td> <td>546.53</td> <td>4.32</td>		1.82	0.8012	2.11	5.1291	2.15	0.0464	1.81	0.0273	2.16	292.28	3.62	1840.93	4.30	546.53	4.32
14.0         0.0486         1.44         0.444         0.44         0.444         0.44         0.444         0.44         0.444         0.44		2.52	0.8983	3.06	8.6311	3.37	0.0706	2.90	0.0293	3.02	439.61	5.80	2299.84	6.73	585.60	6.04
473         00000         188         3.528         4.9         0.0358         6.0         1734         0.0359         1.2         0.0359         6.0         1734         0.0359         1.2         0.0359         4.0         0.012         4.0         1.0         4.0         2.0         0.044         4.0         0.0459         1.2         0.0459         1.2         0.0599         1.2         0.0599         1.2         0.0599         1.2         0.0599         1.2         0.0599         1.2         0.0599         1.2         0.0599         1.0         0.0599 <td></td> <td>1.50</td> <td>0.8385</td> <td>1.43</td> <td>6.9442</td> <td>1.68</td> <td>0.0604</td> <td>1.50</td> <td>0.0479</td> <td>1.67</td> <td>377.77</td> <td>3.01</td> <td>2104.33</td> <td>3.36</td> <td>949.29</td> <td>3.34</td>		1.50	0.8385	1.43	6.9442	1.68	0.0604	1.50	0.0479	1.67	377.77	3.01	2104.33	3.36	949.29	3.34
14.0         0.0009         1.60         0.0179         2.00         0.0009	<b>⊳</b> o	6.84	0.7515	8.38 8.88	31.6499	4.92	0.3086	6.07	0.1221	6.80	1734.00	12.15	3539.47	9.84	2335.49	13.61
14.6         Control         24.6		1.79	0.8059	2.03	10.8027	2.02	0.0972	1.88	0.1302	2.11	597.95	3.76	2506.30	40.4	2480.10	4.21
200         Consideration         2.7.         Coloration         2.4.	~	1.45	0.8149	1.32	10.0940	1.55	0.0899	1.55	0.0775	1.72	554.65	3.09	2443.42	3.10	1513.74	3.44
150         08844         27         45824         21         0.0443         21         0.0403         24         428         45824         25         0.0450         24         0.0450         24         0.0450         24         0.0450         24         0.0450         24         0.0450         12         0.04	6	2.00	0.8158	2.34	37.6091	2.57	0.3347	2.13	0.0817	2.49	1861.28	4.26	3709.69	5.14	1592.65	4.98
4 cm         0.0516         5.5         0.0526         5.7         4.652         10.39         2.0510         9.0	7	1.90	0.8044	2.27	4.5524	2.21	0.0413	2.16	0.0403	2.41	260.71	4.32	1740.61	4.42	800.21	4.82
12         0.0879         11         0.0879         1.05         0.0879         1.05         0.0879         1.05         0.0879         1.05         0.0879         1.05         0.0879         1.05         0.0879         1.05         0.0879         1.05         0.0879         1.05         0.0879         1.05         0.0879         1.05         0.0879         1.05         0.0879         1.05         0.0879         2.05         4.74         1.05         0.0879         1.05         1.05         1.05         0.0879         2.05         4.74         1.05         0.0879         2.05         4.74         1.05         9.74         1.05         0.0879         2.05         4.74         1.05         9.74         1.05         0.0879         2.05         0.0879         2.04         1.05         0.0879         2.04         1.05         0.0879         2.04         1.05         0.0879         2.04         1.05         0.0879         2.04         1.05         0.0879         2.04         1.05         0.0879         2.04         1.05         0.0879         2.04         1.05         0.0879         2.04         1.05         0.0879         2.04         1.05         0.0879         2.04         1.05         2.04         1.05 <td>8</td> <td>4.62</td> <td>0.8185</td> <td>2.67</td> <td>8.2040</td> <td>4.29</td> <td>0.0732</td> <td>5.19</td> <td>0.0509</td> <td>5.78</td> <td>455.32</td> <td>10.39</td> <td>2253.79</td> <td>8.58</td> <td>1006.01</td> <td>11.55</td>	8	4.62	0.8185	2.67	8.2040	4.29	0.0732	5.19	0.0509	5.78	455.32	10.39	2253.79	8.58	1006.01	11.55
1.50   1.08   1.4   1.0   1.	72	1.25	0.8293	1.12	6.6128	1.30	0.0579	1.25	0.0385	1.35	362.84	2.50	2061.06	2.61	764.92	2.70
150         0.894         14         0.0041         1.75         0.004         1.75         0.004         1.75         0.004         1.75         0.004         1.75         0.004         1.75         0.004         1.75         0.004         1.75         0.004         1.75         0.004         1.75         0.004         1.75         0.004         1.75         0.004         1.75         0.004         1.75         1.75         1.74         1.74         1.74         1.74         1.74         1.74         1.74         1.75 <td>66</td> <td>1.82</td> <td>0.8177</td> <td>2.03</td> <td>4.7496</td> <td>1.99</td> <td>0.0423</td> <td>1.86</td> <td>0.0585</td> <td>2.03</td> <td>267.26</td> <td>3.72</td> <td>1776.03</td> <td>3.97</td> <td>1153.18</td> <td>4.06</td>	66	1.82	0.8177	2.03	4.7496	1.99	0.0423	1.86	0.0585	2.03	267.26	3.72	1776.03	3.97	1153.18	4.06
2.3         ORGEN         2.8         CALCAL         2.7         CALCAL         2.8         CALCAL         2.7         CALCAL         2.8         0.00         2.4         0.00	55	1.50	0.8044	1.49	6.0115	1.73	0.0541	1.63	0.0575	2.20	339.71	3.26	1977.52	3.47	1133.62	4.39
3.4         0.786         4.26         0.786         4.24         0.786         4.24         0.786         4.24         0.786         4.24         0.786         4.24         0.786         4.24         0.786         4.24         0.786         2.74         0.786 <th< td=""><td>99</td><td>2.37</td><td>0.8267</td><td>2.87</td><td>4.5761</td><td>2.48</td><td>0.0404</td><td>2.37</td><td>0.0856</td><td>2.74</td><td>255.22</td><td>4.74</td><td>1744.93</td><td>4.97</td><td>1665.70</td><td>5.49</td></th<>	99	2.37	0.8267	2.87	4.5761	2.48	0.0404	2.37	0.0856	2.74	255.22	4.74	1744.93	4.97	1665.70	5.49
4.2         0.00420         3.8         5.644         2.8         0.00450         3.1         5.842         5.4         1152.2         5.6         1152.2         1.0	22	3.34	0.7696	4.82	2.7873	3.70	0.0264	3.66	0.0061	4.34	167.99	7.31	1352.14	7.41	123.36	8.69
4.4         0.0846         3.85         0.0865         3.75         0.0356         3.71         5.34 c.         7.90         2271 c.         3.71         7.00         2271 c.         2.21         2.22         2.22         2.22         2.22         2.22         2.22         2.22         2.22         2.22         2.22         2.22         2.22         2.22         2.22         2.22         2.22         2.22 <td>88</td> <td>2.69</td> <td>0.8267</td> <td>3.35</td> <td>5.8471</td> <td>2.84</td> <td>0.0515</td> <td>2.71</td> <td>0.0673</td> <td>3.11</td> <td>323.96</td> <td>5.41</td> <td>1953.42</td> <td>5.69</td> <td>1320.36</td> <td>6.23</td>	88	2.69	0.8267	3.35	5.8471	2.84	0.0515	2.71	0.0673	3.11	323.96	5.41	1953.42	5.69	1320.36	6.23
146         0.0840         1.75         1.69 11 6 1 16 11 6 1 16 1 1 1 1 1 1 1 1 1	8	4.42	0.7947	2.16	9.4135	3.85	0.0865	3.75	0.0355	3.71	534.62	7.50	2379.15	7.71	706.72	7.42
146         0.8142         149         1689         163         0.8264         3         2891         2.93         14671           4.66         0.8142         149         1689         168         0.08142         149         0.8182         168         0.0826         4.25         0.0826         4.25         0.0826         4.25         0.0826         2.24         6.8506         3.89         2871.38         8.90         144161           1.7         0.8264         1.9         1.6877         1.2         0.0729         3.14         511.4         8.45         2871.38         8.90         144161           1.7         0.8264         1.9         1.6         0.0729         1.2         51.0         0.0729         3.14         51.1         8.9         2.7         144161         1.0	8	2.15	0.8096	1.78	15.9119	1.90	0.1421	2.20	0.1041	2.47	856.49	4.40	2871.52	3.81	2008.21	4.94
166         0.8844         110         6.84         0.8850         3.25         2.896.         3.37         14.10           1.66         0.8844         1.10         6.876         4.26         0.0897         6.84         8.25         2.29         1.44.61           1.97         0.8968         0.64         1.67.721         1.89         1.390         1.82         0.0807         3.44         6.505.66         3.65         3	92	1.46	0.8142	1.49	9.5382	1.48	0.0850	1.54	0.0836	1.63	526.07	3.08	2391.24	2.96	1627.17	3.26
430         0.8864         191         9.3339         4.25         0.00259         3.14         5514         8.45         28.71         8.45         191         9.3349         4.25         0.00259         3.14         5514         8.65         52.71         8.60         1914         9.80         1914         9.80         1914         9.80         1914         9.80         1914         9.80         1914         9.80         1914         9.80	7	1.66	0.8341	1.10	15.8767	1.68	0.1383	1.62	0.0897	6.84	835.06	3.23	2869.41	3.37	1741.91	13.68
197         08.088         0.64         1.65         1.7         1.80         1.80         1.80         2.4         550.56         3.85         61.83         7.8         2.0         1.80         1.80         1.80         1.80         1.80         1.80         1.80         1.80         1.80         1.80         1.80         1.80         1.80         1.80         1.80         1.80         1.80         1.80         0.0000         2.2         4         2.20         1.80         1.80         0.0000         1.80         1.80         2.80         1.80         1.80         0.0000         2.2         2.80         2.80         1.80         1.80         0.0000         2.80         1.80         2.80	19	4.30	0.8248	1.91	9.3339	4.25	0.0825	4.22	0.0739	3.14	511.14	8.45	2371.36	8.50	1444.61	6.28
2.06         0.03034         2.22         1.49675         2.41         0.0206         1.486         4.39         2.813.18         4.23         1.718.18         5.82.84         4.23         2.813.18         4.23         1.718.18         5.82.84         4.23         2.813.18         4.23         1.718.18         5.82.84         1.82         1.149.18         0.023         1.43.72         1.43.72         1.43         0.1726         1.44         0.0247         1.77         1.048.62         3.74         4.15         1.048.67         3.15         1.048.67         3.15         1.048.67         4.16         1.048.68         4.16         1.048.68         4.16         1.048.68         4.16	23	1.97	0.8368	9.0	156.7271	1.98	1.3601	1.93	3.6020	2.24	5535.65	3.85	5138.72	3.97	30941.84	4.47
1.29         0.828.4         1.15         1.43         0.1256         1.40         0.0256         1.84         762.73         3.66         3.77         3.69         3.77         3.69         3.74         3.69         3.74         3.69         3.74         3.69         3.74         3.69         3.74         3.69         3.74         3.69         3.74         3.69         3.74         3.69         3.74         3.69	¥	2.06	0.8034	2.22	14.9675	2.11	0.1358	2.19	0.0620	13.65	820.84	4.39	2813.18	4.23	1219.65	27.30
144         0.8324         2.0         2.0434         2.0         0.1434         1.83         0.0014         3.70         3.70         1.70         1.0054         3.70         1.00         1.00         3.70         1.00         1.00         3.70         1.00         3.70         3.70         3.70         3.70         3.70         3.70         3.70         3.70         4.70         3.70         3.70         3.70         3.70         4.70         3.70         4.70         3.70         4.70         3.70         4.70         3.70         4.70         3.70         4.70         3.70         4.70         3.70         4.70         3.70         4.80         3.80         4.80	97	1.29	0.8284	1.15	14.3372	1.43	0.1256	1.40	0.6266	1.84	762.73	2.80	2772.28	2.85	9861.64	3.69
1,4         0.0313         1,1         2,047         0.1791         0.4012         3.14         3.14         3.15         4         4.10         3.01         4.00         3.14         3.15         4         4.10         3.01         4.00         3.11         4.10         3.01         4.00         4.10         3.01         4.00         4.10         3.01         2.02         2.02         2.02         2.02         0.700         3.11         7.00-46         3.00         2.72         4.00	20 0	09.1	0.8324	2.02	20.3137	70.7	0.1787	5 6	0.7051	3.02	1059.75	0.00	3106.41	φ. Σ. φ.	10816.75	67. 7
1.42         0.0373         1.22         2.4066         2.22         0.0434         1.71         1.00540         3.00         2.00         1.92         1.0044         1.0044         1.0044         1.0044         1.0044         1.0044         1.0044         1.00         1.0044 <t< td=""><td>200</td><td>1.74</td><td>0.8373</td><td> <del>-</del></td><td>43.0835</td><td>2.08</td><td>0.1791</td><td>, v</td><td>0.2072</td><td>0.0</td><td>700 46</td><td>4 .0</td><td>3125.44</td><td>0 6</td><td>3816.30</td><td>3 55</td></t<>	200	1.74	0.8373	<del>-</del>	43.0835	2.08	0.1791	, v	0.2072	0.0	700 46	4 .0	3125.44	0 6	3816.30	3 55
1.62         0.8311         1.68         1.68         1.98         1.98         1.1883         2.44         767.79         3.90         278.20         3.72         4.22.99           2.92         0.8641         1.44         1.44         1.68         1.86         1.68         1.68         2.44         767.79         3.90         278.20         1.68.32         4.22.99           1.56         0.8647         1.43         2.2049         1.78         0.2243         1.66         1.68         4.7         357.30         6.16         1.688.34         4.27         1.66         9.8         1.688.34         1.7         1.66         9.8         1.7         1.66         9.8         1.66         9.7         3.7         3.6         3.0         3.6         9.8	28.8	2.27	0.8535	23.7	24 2465	23.2	0.1163	2.50	0.270	- 6	1208.52	20.0	3278.36	4.63	11584 44	6.22
28         68         14         32749         36         6242         11880         21         156         69         11880         21         65         61	7.90	1.82	0.8311	1.08	14.4856	1.86	0.1265	1.95	0.2328	2.94	767.79	3.90	2782.06	3.72	4242.99	5.89
1,56         0,831         1,43         2,304         1,56         0,494         1,85         1,86         0,494         1,85         1,86         0,434         1,87         3,20,78         3,56         1,31         1,32         1,32         1,32         1,32         1,32         1,32         1,32         1,32         1,32         1,32         1,32         1,34         1,41         1,42	3.62	2.92	0.8517	1.47	32.7497	3.08	0.2743	2.89	1.1893	2.13	1562.44	5.78	3573.10	6.16	15883.24	4.26
143         0.8431         1.20         39.0675         1.63         0.4364         1.43         0.6891         2.23         1869.44         2.97         374.08         3.74         0.69.07         0.200         2.71         145.21         4.11         374.08         3.26         0.0500         7         145.21         4.11         374.08         3.67         3.64         3.67         3.69.69         3.69         6.84.31         4.11         3.40         5.006.37         3.69         6.84.31         4.11         3.42         5.006.37         3.64         3.64         3.60         3.74         5.006.37         3.67         9.89         4.74         4.74         5.006.24         3.75         3.69         3.74         4.75         5.606.24         3.75         5.606.24         3.75         5.75         3.75 <td>4.94</td> <td>1.56</td> <td>0.8318</td> <td>1.43</td> <td>23.0910</td> <td>1.78</td> <td>0.2024</td> <td>1.56</td> <td>0.4941</td> <td>1.82</td> <td>1188.04</td> <td>3.12</td> <td>3230.78</td> <td>3.55</td> <td>8138.91</td> <td>3.65</td>	4.94	1.56	0.8318	1.43	23.0910	1.78	0.2024	1.56	0.4941	1.82	1188.04	3.12	3230.78	3.55	8138.91	3.65
204         0837         1,31         310820         203         2.06         0.2802         2.71         1542.31         4.11         352.165         4.07         5008.97           1.55         0.8411         1.63         1.0530         1.73         0.290         1.75         0.4224         3.42         500.97         3.64         668.34         3.67         668.34	2.97	1.43	0.8431	1.20	39.0575	1.63	0.3364	1.49	0.6591	2.23	1869.44	2.97	3747.08	3.26	10261.66	4.46
155         08414         1.63         1.0530e         1.71         0.0934         1.53         0.3910         1.99         575.46         3.07         2482.64         3.42         6688.94           1.80         0.6411         1.45         11.9471         1.82         0.1031         1.82         0.176         4.66         682.56         3.64         260.27         3.63         3.74         3.69         3.75         3.64         3.69         3.75         3.64         3.69         3.75         3.64         3.69         3.75         3.64         3.69         3.75         3.64         3.69         3.75         3.64         3.69         3.75         3.64         3.69         3.74         3.64         3.69         3.74         3.69         3.74         3.69         3.73         3.75         3.73         3.73         3.73         3.73         3.73         3.74         3.75         3.74         3.75         3.74         3.75         <	3.70	2.04	0.8327	1.31	31.0820	2.03	0.2703	2.06	0.2802	2.71	1542.31	4.11	3521.65	4.07	5006.97	5.41
180         0.841         1.45         11.947         1.82         0.1036         4.66         632.56         3.64         260.027         3.63         3278.79           1.99         0.8263         1.57         1.2023         1.98         0.498 7         4.37         2606.24         3.65         3.73         373.37           1.50         0.8263         1.57         1.2023         1.98         1.51         0.4218         3.45         3.62         3.66.24         3.69         3.73         7.73.10           1.42         0.8263         1.39         1.48         0.4917         4.48         167.29         2.89         2.89         3.67         3.02         2.89         3.77         7.03.10         3.73         7.03.10         3.73         7.03.10         3.73         7.03.10         3.73         7.03.10         3.73         7.03.10         3.73         7.03.10         3.73         7.03.10         3.73         7.03.10         3.73         7.03.10         3.73         7.03.10         3.73         7.03.10         3.73         7.03.10         3.73         7.03.10         3.73         7.03.10         3.73         7.03.10         3.73         7.03.10         3.73         7.03.10         3.73	10.72	1.55	0.8141	1.63	10.5309	1.71	0.0934	1.53	0.3910	1.99	575.46	3.07	2482.64	3.42	6688.94	3.98
1.99         0.8263         1.57         1.2023         1.98         0.4087         4.37         2.606.24         3.95         373.37           1.50         0.8263         1.53         1.58         0.1061         2.19         0.2022         2.98         649.87         4.37         2.606.24         3.95         373.37           1.50         0.8263         1.58         1.58         0.148         1.51         0.418         1.44         0.418         0.448         1672.00         8.28         2.89         3.07         3.02         7.734.0         3.02         7.734.0	89.6	1.80	0.8411	1.45	11.9471	1.82	0.1031	1.82	0.1756	4.66	632.56	3.64	2600.27	3.63	3278.79	9.31
150         0.8263         1.58         1.51         0.4218         3.45         838.37         3.02         2667.84         3.02         7134.10           4 54         0.8263         1.38         3.42826         4.15         0.2991         4.13         0.471         4.67         925.89         2.89         3.07         7134.10           1 4 4         0.8246         1.29         1.25         1.7484         1.59         0.1543         1.44         0.471         4.67         925.89         2.89         3.07         7.066.23           1 42         0.8226         1.39         0.215         1.58         0.267         3.54         3.01         2.89         3.77         7.066.23           1 42         0.8226         1.39         0.1624         1.31         0.5436         1.76         97.03         2.61         3.01         3.71         8509.78           1 12         0.8237         1.36         0.1624         1.31         0.5436         1.76         97.03         2.61         3.01         3.71         8509.78           1 1.28         0.8247         1.39         0.183         3.57         0.5866         2.59         773.44         7.73         2.91.24         6.59<	9.45	1.99	0.8263	1.57	12.0235	1.98	0.1061	2.19	0.2022	2.98	649.87	4.37	2606.24	3.95	3733.37	5.95
4 54         0.8345         1.36         34,2526         4.15         0.2691         4.13         0.3176         4.48         1672.00         8.29         3677.34         8.30         5569.30           1 42         0.8226         1.25         1.74484         1.59         0.1543         1.44         0.4171         4.67         925.88         2.89         3.69         3.77         7066.23           1 42         0.8226         1.25         1.26         1.58         0.2682         1.82         1.56.89         2.89         3.24         4.815.89         3.24         4.815.89         3.27         860.53         3.27         860.53         3.27         860.53         3.27         860.53         3.24         860.53         3.24         860.53         3.24         860.53         3.24         860.53         3.24         860.53         3.24         860.53         3.24         860.53         3.24         860.53         3.24         860.53         3.24         860.53         3.24         860.53         3.24         860.53         3.24         860.53         3.24         860.53         3.24         860.53         3.24         860.53         3.24         860.53         3.24         860.53         3.24         86	20	1.50	0.8263	1.53	15.8507	1.51	0.1389	1.51	0.4218	3.45	838.37	3.02	2867.84	3.02	7134.10	6.91
142         0.8226         1.55         17484         1.59         0.143         144         0.4171         467         925.28         2.89         2596.82         3.17         7066.23           1.52         0.8955         1.39         2.396.80         1.65         0.216         1.59         0.226         1.76         970.03         2.61         3.04         3.04         3.27         7066.23           1.45         0.8207         1.46         0.8207         1.50         0.1624         1.31         0.5246         1.76         970.03         2.61         3.01         3.27         850.07         870.03         2.61         3.01         3.21         850.07         870.03         2.61         3.01         3.01         3.21         850.07         870.03         2.61         3.01         3.21         850.07         870.03         2.61         3.01         3.01         3.21         870.03         870.03         2.61         2.71         3.01         3.01         3.01         3.01         870.07         3.00         3.01         3.01         3.01         3.01         3.01         3.01         3.01         3.01         3.01         3.01         3.01         3.02         3.02         3.02	88	4.54	0.8345	1.36	34.2526	4.15	0.2961	4.13	0.3176	4.48	1672.00	8.26	3617.34	8.30	5590.30	8.96
1.52         0.8055         1.39         23.9630         1.65         0.2462         1.82         126.22         3.15         3.06.89         3.29         4815.56           1.45         0.8201         1.46         1.34601         1.61         0.188         1.51         0.6216         2.59         723.48         3.01         271.78         3.29         4815.56           1.45         0.8207         1.46         1.34601         1.61         0.184         1.51         0.6368         4.92         891.14         7.13         2.912.46         6.95         9356.46           1.58         0.8205         2.22         1.6670         3.47         0.1483         3.57         0.586         4.92         891.14         7.13         2.912.46         6.95         9356.46           1.58         0.7841         1.77         0.286         2.25         716.51         3.42         2.666.70         3.60         41386.5           1.63         0.7841         1.77         0.286         2.25         740.72         4.44         2.4466         4.02         2.860.74           1.97         0.8103         2.12         8.4888         3.38         0.0756         3.48         4.69         4.69	6.48	1.42	0.8226	1.25	17.4484	1.59	0.1543	1.44	0.4171	4.67	925.28	2.89	2959.82	3.17	7066.23	9.34
1.45         0.8201         1.46         1.54 (1.46)         1.61         0.188         1.51         0.5216         2.59         723.48         3.01         2711.78         3.21         8508.78           1.27         0.8297         1.08         1.8553         1.30         0.1824         1.31         0.5486         1.76         970.03         261         3019.38         2.60         8799.07           1.31         0.8295         1.30         0.1824         1.31         0.5866         4.92         891.14         7.13         291.246         6.95         9356.46           1.53         0.8341         2.30         0.0334         9.79         365.02         16.27         2055.33         17.18         66.587         17.18         66.587         17.18         66.587         17.18         66.587         17.18         66.587         17.18         66.587         17.18         66.587         17.18         66.587         17.18         66.587         17.18         66.587         17.18         66.587         17.18         66.587         17.18         66.587         17.18         66.587         17.18         66.587         17.18         66.587         17.18         66.587         17.18         17.18         67.17<	4.65	1.52	0.8055	1.39	23.9630	1.65	0.2152	1.58	0.2682	1.82	1256.22	3.15	3266.89	3.29	4815.56	3.65
1.27         0.8297         1.08         18.6830         1.30         0.1624         1.31         0.5436         1.76         970.03         261         3019.38         2.60         8799.07           1.158         0.8205         2.22         16.6076         3.47         0.1433         3.57         0.6366         4.92         891.14         7.13         2012.46         6.95         9356.46           1.158         0.8205         2.22         1.6677         3.62         1.67         1.67         2065.33         17.18         665.87         3.66         865.87         1.87         4.13         8.71         8.65         8.65         1.87         1.87         2.66.70         3.60         4.13         8.63         4.13         8.65         8.65         1.87         4.13         8.65         8.65         8.65         1.87         1.78         8.658         8.65         1.87         1.78         8.658         1.78         8.658         1.78         8.658         1.78         8.658         1.78         8.658         1.78         8.658         1.78         8.658         1.78         8.658         1.78         8.658         1.78         8.658         1.78         8.658         1.78         8.658 <td>8.42</td> <td>1.45</td> <td>0.8201</td> <td>1.46</td> <td>13.4501</td> <td>1.61</td> <td>0.1188</td> <td>1.51</td> <td>0.5216</td> <td>2.59</td> <td>723.48</td> <td>3.01</td> <td>2711.78</td> <td>3.21</td> <td>8208.78</td> <td>5.18</td>	8.42	1.45	0.8201	1.46	13.4501	1.61	0.1188	1.51	0.5216	2.59	723.48	3.01	2711.78	3.21	8208.78	5.18
1 301         0.8205         2.22         16.6076         3.47         0.1483         3.57         0.5866         4.92         891.14         7.13         2912.46         6.85         9356.46           11.58         0.8341         2.30         6.5700         8.89         0.0683         8.13         0.0334         9.79         365.02         16.27         2016.53         17.18         66.587         7.78         66.587         7.78         66.587         7.78         66.587         7.78         66.587         7.78         7.	6.16	1.27	0.8297	1.08	18.5630	1.30	0.1624	1.31	0.5436	1.76	970.03	2.61	3019.38	2.60	8799.07	3.52
1158         0.8341         2.30         6.570         8.59         0.0683         8.13         0.0334         9.79         365.02         16.27         2.056.33         17.18         665.87         7           1.63         0.7841         1.76         12.6871         1.80         0.1181         1.71         0.2266         2.25         7.1951         3.42         2666.70         3.60         4.139.65           1.97         0.7897         2.46         9.7865         2.01         0.0786         3.48         0.0486         4.28         4.44         2.244.72         6.76         984.22           3.97         0.8103         2.12         8.488         3.38         0.0756         3.48         0.0496         4.28         4.69         6.95         2.244.72         6.76         984.22           4.80         0.8305         3.77         147.3649         4.19         1.2953         4.25         0.2730         4.61         5356.06         8.51         5076.59         8.37         4893.00	6.72	3.01	0.8205	2.22	16.6076	3.47	0.1483	3.57	0.5866	4.92	891.14	7.13	2912.46	6.95	9356.46	9.82
1 1.63 0.7841 1.76 12.6871 1.80 0.1181 1.71 0.2266 2.25 719.51 3.42 2.656.70 3.60 4.139.65 4.139.65 5.10 0.1181 1.71 0.226 5.07 4.44 2.404.66 4.02 2.680.94 5.137 0.8103 2.12 8.4888 3.38 0.0756 3.48 0.0498 4.28 4.69.79 6.35 2.264.72 6.76 984.22 5.13 8.14 0.8305 3.77 147.3649 4.19 1.2953 4.25 0.2730 4.61 5.356.06 8.51 5.075.9 8.37 4.893.00	17.61	11.58	0.8341	2.30	6.5700	8.59	0.0583	8.13	0.0334	6.79	365.02	16.27	2055.33	17.18	665.87	19.57
. 1.97 0.7997 2.46 9.6785 2.01 0.0875 2.22 0.1414 2.22 540.72 4.44 2.404.66 4.02 2.680.94 7 3.97 0.8103 2.12 8.4888 3.38 0.0756 3.48 0.0498 4.28 4.69.79 6.35 2.284.72 6.76 984.22 8 4.80 0.8305 3.77 147.3649 4.19 1.2953 4.25 0.2730 4.61 5.356.06 8.51 5.076.59 8.37 4.893.00	8.49	1.63	0.7841	1.76	12.6871	1.80	0.1181	1.71	0.2266	2.25	719.51	3.42	2656.70	3.60	4139.65	4.50
7 3.97 0.8103 2.12 8.4888 3.38 0.0756 3.48 0.0498 4.28 469.79 6.95 2.284.72 6.76 984.22 1 4.80 0.8305 3.77 147.3649 4.19 1.2953 4.25 0.2730 4.61 5.356.06 8.51 5.076.59 8.37 4.893.00	45	1.97	0.7997	2.46	9.6785	2.01	0.0875	2.22	0.1414	2.22	540.72	4.4	2404.66	4.02	2680.94	4.44
3 4.80 0.8305 3.77 147.3649 4.19 1.2953 4.25 0.2730 4.61 5356.06 8.51 5076.59 8.37 4.893.00	27	3.97	0.8103	2.12	8.4888	3.38	0.0756	3.48	0.0498	4.28	469.79	6.95	2284.72	92.9	984.22	8.56
	0.78	4.80	0.8305	3.77	147.3649	4.19	1.2953	4.25	0.2730	4.61	5356.06	8.51	5076.59	8.37	4893.00	9.23

Appendix B: Eastern Sunda arc geochronology data - apatite

Analysis ID	238U/206Pb ratio	18%	207 Pb/206Pb ratio	18%	207Pb/235U (calc) ratio	18%	206Pb/238U ratio	18%	208Pb/232Th ratio	18%	206Pb/238U Age (Ma)	2s%	207Pb/235U (calc) Age (Ma)	2s%	208Pb/232Th Age (Ma)	2s%
NAF-03 ap14	1.86	5.95	0.7856	5.09	58.7531	6.23	0.5287	5.94	0.1629	6.48	2735.83	11.88	4153.14	12.45	3059.41	12.95
NAF-03 ap15	11.66	1.98	0.8368	2.08	9.9227	2.21	0.0858	2.07	0.1048	2.71	530.77	4.13	2427.63	4.43	2019.96	5.42
NAF-03 ap16	1.27	3.78	0.8267	3.84	89.8351	3.48	0.7863	4.01	0.1562	3.78	3739.90	8.02	4578.41	96.9	2942.67	7.56
NAF-03 ap17	7.93	2.22	0.8237	2.58	14.4103	2.38	0.1262	2.22	0.1122	2.54	765.95	4.44	2777.11	4.77	2155.57	5.08
NAF-03 ap18	0.87	2.62	0.8134	1.96	128.8346	2.73	1.1440	2.54	0.3070	2.46	4916.35	2.08	4941.12	5.46	5427.04	4.91
NAF-03 ap19	1.26	2.51	0.8563	2.22	93.4694	2.57	0.7921	2.71	0.3344	2.78	3760.86	5.42	4618.24	5.15	5847.85	5.57
NAF-03 ap2	77.7	4.18	0.8370	3.1	14.7373	4.77	0.1280	4.87	0.1855	3.56	776.22	9.73	2798.43	9.55	3448.66	7.11
NAF-03 ap20	0.45	4.73	0.8283	2.54	256.9079	5.09	2.2467	4.93	1.3997	5.46	7591.58	9.82	5638.02	10.18	17743.50	10.93
NAF-03 ap21	2.22	2.25	0.8170	2.10	50.5853	2.34	0.4491	2.25	0.2460	2.37	2391.43	4.50	4003.90	4.69	4457.54	4.73
NAF-03 ap22	22.89	3.13	0.8248	7.72	4.9414	3.20	0.0435	3.26	0.0564	3.09	2/4./8	0.53	1809.36	0.52	7444 57	5 5
NAF-03 ap23	0.55	5.3	0.8290	2.78	207.9629	3.33	1.8212	2.83	0.4224	2.85	546.03	2.67	5424.34	0.00	/141.5/	5.69
NAF-03 ap24	8.49	7.7.	0.836/	1.63	13.6237	 	0.1179	1.90	0.2412	2.24	718.39	3.8	2723.91	3.97	43/9.29	4.48 8.48
NAF-03 ap 26	18.35	222	0.8501	2.5	6.3725	2.47	0.0047	24.4	0.000	2 6	341.87	80 8	2028.30	8 8	082 15	8 8
NAF-03 ap 27	23.72	3.86	0.7977	8 4	4.6524	3.30	0.0419	3.24	0.0228	5.47	264.51	6.48	1758.73	6.59	456.95	10.94
NAF-03 ap28	1.27	2.45	0.8534	1.78	92.8165	2.69	0.7896	2.58	0.2182	2.53	3751.71	5.16	4611.20	5.37	4000.93	5.05
NAF-03 ap29	2.04	2.41	0.8541	2.21	57.8128	2.54	0.4905	2.51	0.1841	2.51	2572.88	5.03	4137.04	5.08	3424.96	5.03
NAF-03 ap30	4.25	3.44	0.8174	1.24	26.5310	3.00	0.2360	2.94	0.3673	2.86	1365.79	5.88	3366.31	5.99	6341.42	5.71
NAF-03 ap4	13.48	2.34	0.8483	2.80	8.5941	2.77	0.0739	2.36	0.1832	2.73	459.45	4.72	2295.94	5.54	3409.69	5.45
NAF-03 ap6	0.52	4.34	0.8570	3.41	224.6565	4.00	1.9082	4.00	0.1105	3.31	6881.64	8.00	5502.38	8.00	2123.93	6.61
NAF-03 ap7	3.54	2.57	0.8358	1.78	32.7201	2.70	0.2832	2.57	0.0856	4.39	1607.64	5.14	3572.21	5.40	1664.41	8.78
NAF-03 ap8	0.77	3.98	0.8355	3.49	149.2968	3.91	1.2931	3.98	0.1730	3.96	5349.75	7.97	5089.72	7.83	3234.67	7.92
NAF-03 ap9	0.43	2.55	0.8223	1.82	264.6135	2.68	2.3382	2.59	0.6179	2.50	7770.66	5.18	5667.91	5.36	9752.10	5.01
SLG-1 ap1	2.13	4.32	0.8239	4.08	53.3967	3.64	0.4720	4.01	0.0977	4.48	2492.23	8.02	4057.78	7.27	1890.07	8.96
SLG-1 ap10	1.77	6.24	0.8269	1.66	64.7494	5.37	0.5723	5.89	0.6291	8.71	2917.08	11.77	4250.24	10.73	9891.66	17.42
SLG-1 ap11	57.16	9.54	0.6182	18.16	1.3991	11.70	0.0167	12.57	0.0206	11.53	106.91	25.13	888.54	23.40	412.60	23.06
SLG-1 ap12	3.15	7.92	0.7466	9.58	33.2241	8.03	0.3129	7.92	0.2847	9.49	1754.75	15.83	3587.28	16.06	5078.08	18.99
SLG-1 ap13	48.42	11.48	0.7639	15.18	2.1083	10.68	0.0201	10.82	0.1533	10.39	128.13	21.64	1151.51	21.37	2890.99	20.78
SLG-1 ap14	1.99	5.71	0.8616	5.93	59.7673	5.81	0.5004	2.97	0.6263	6.20	2615.69	1.94	4170.23	11.61	9857.13	12.40
SLG-1 ap15	2.13	5.38	0.8312	5.92	53.4286	5.30	0.4668	5.41	0.1666	5.56	2469.47	10.82	4058.37	10.60	3123.14	11.12
SLG-1 ap16	2.11	10.69	0.7105	10.82	45.7534	9.53	0.4672	9.27	0.1246	12.15	2471.09	18.53	3904.03	19.06	2380.31	24.31
SLG-1 ap17	31.63	8.60	0.8253	7.01	3.5634	5.10	0.0313	5.27	0.0291	9.02	198.62	10.54	1541.42	10.19	581.91	18.04
SLG-1 ap18	3.66	90.6	0.7205	7.47	27.3741	6.22	0.2763	6.07	0.0379	99.9	1572.87	12.14	3396.94	12.43	753.44	13.32
SLG-1 ap19	4.76	9.4	0.7907	9.81	22.8403	7.75	0.2096	7.88	0.0719	10.84	1226.84	15.76	3220.16	15.50	1406.63	21.68
SLG-1 ap2	1.76	3.54	0.8318	3.89	65.4040	3.98	0.5703	3.67	0.9627	4.48	2908.93	7.35	4260.30	7.96	13668.21	8.97
SLG-1 ap20	60.58	8.31	0.7102	10.69	1.6383	10.78	0.0168	10.72	0.0158	10.89	107.62	21.44	985.04	21.56	318.63	21.79
SLG-1 ap21	6.52	8.70	0.8092	7.75	16.9043	5.99	0.1521	8.04	0.0580	7.19	912.51	16.08	2929.42	11.98	1143.02	14.39
SLG-1 ap22	3.94	5.05	0.8183	5.41	28.6289	4.45	0.2536	4.61	0.0438	4.85	1457.07	9.21	3440.88	8.84	868.71	9.70
SLG-1 ap23	3.72	4.90	0.7584	6.10	27.9557	4.96	0.2679	5.10	0.1934	2.77	1529.94	10.19	3417.54	9.92	3583.69	11.53
SLG-1 ap24	6.11	6.07	0.7526	8.25	17.1022	8.28	0.1624	6.42	0.0312	7.52	970.22	12.83	2940.59	16.55	622.62	15.04
SLG-1 ap25	3.28	6.31	0.8506	3.91	35.2356	6.23	0.3006	5.82	0.0401	5.04	1694.26	11.63	3645.27	12.46	796.61	10.08
SLG-1 ap26	1.28	6.17	0.8845	98.9	94.1704	6.01	0.7747	6.48	0.3690	6.27	3697.78	12.97	4625.75	12.02	6366.25	12.54
SLG-1 ap27	4.63	3.49	0.7891	4.20	23.6162	3.80	0.2165	3.65	0.1254	4.60	1263.41	7.29	3252.68	7.59	2395.31	9.19
SLG-1 ap3	6.10	2.99	0.8264	3.80	18.6556	3.14	0.1638	3.40	0.1517	3.80	977.72	6.81	3024.18	6.28	2862.77	7.60
SLG-1 ap4	3.32	4.35	0.8877	4.96	37.1126	4.44	0.3018	4.27	0.1390	4.46	1700.31	8.55	3696.55	8.89	2638.02	8.93
SLG-1 ap5	6.78	3.15	0.8385	3.76	16.9624	3.56	0.1469	3.69	0.0527	4.27	883.36	7.39	2932.71	7.12	1040.74	8.54
SLG-1 ap6	4.50	3.74	0.8620	4.51	26.3752	3.71	0.2219	3.76	0.0508	4.05	1291.78	7.51	3360.55	7.43	1004.03	8.11
SLG-1 ap8	1.94	5.17	0.9204	4.95	65.8381	4.50	0.5161	4.28	0.4715	29.67	2682.64	8.56	4266.92	9.01	7830.01	1.34
SLG-1 ap9	1.29	6.34	0.8897	7.16	95.0148	6.72	0.7739	7.68	0.2171	5.48	3695.02	15.36	4634.72	13.4	3983.10	10.96
SLG-2 ap1	6.27	2.22	0.8398	<del>2</del>	18.4452	1.98	0.1593	2.19	0.0273	1.86	952.66	4.39	3013.25	3.95	545.66	3.71

Appendix B: Eastern Sunda arc geochronology data - apatite

238U/206Pb 15% 207Pb/206Pb 15%	207Pb/206Pb		18%		207Pb/235U	15%	206Pb/238U	15%	208Pb/232Th	15%	206Pb/238U	2s%	207Pb/235U (calc)	25%	208Pb/232Th	75%
ratio (calc) ratio	ratio (calc) ratio	(calc) ratio	(calc) ratio	2		ratio		0/2	ratio	2/2	Age (Ma)	22/0	Age (Ma)	23	Age (Ma)	200
4.57 0.8211 4.00 20.0201 3.67	7 0.8211 4.00 20.0201 3.67	4.00 20.0201 3.67	00 20.0201 3.67	3.67		0.1768		4.29	0.0114	5.23	1049.39	8.58	3092.33	7.35	228.83	10.45
0.78 6.25 0.8770 4.62 152.9682 5.01 1.2735	0.8770 4.62 152.9682 5.01	4.62 152.9682 5.01	62 152.9682 5.01	5.01		1.2735		5.85	0.0724	4.78	5294.57	11.70	5114.23	10.02	1417.57	9.56
2.01 0.8422 1.89 33.0016 2.29	0.8422 1.89 33.0016 2.29	1.89 33.0016 2.29	33.0016 2.29	2.29		0.2840		2.15	0.0995	2.94	1611.41	4.29	3580.65	4.58	1922.90	5.88
3.17 0.8322 2.01 63.0269 2.94	0.8322 2.01 63.0269 2.94	2.01 63.0269 2.94	63.0269 2.94	2.94		0.5493		3.08	0.0533	3.47	2822.30	6.17	4223.29	5.87	1051.91	6.95
3.57 0.8240 3.69 78.4420 3.61	0.8240 3.69 78.4420 3.61	3.69 78.4420 3.61	78.4420 3.61	3.61		0.6948		3.61	0.0288	3.45	3401.00	7.22	4442.33	7.22	576.32	6.89
0.95 2.94 0.7954 2.91 116.4777 3.22 1.0556	0.7954 2.91 116.4777 3.22	2.91 116.4777 3.22	116.4777 3.22	3.22		1.0556		2.90	0.0543	2.74	4645.13	5.81	4839.57	6.43	1072.54	5.48
5.76 0.7873 3.31 8.1815 6.83	0.7873 3.31 8.1815 6.83	3.31 8.1815 6.83	8.1815 6.83	6.83		0.0754		6.76	0.0300	5.42	468.45	13.52	2251.30	13.66	236.52	10.85
3.00 0.8672 2.48 24.9912 2.80	0.8672 2.48 24.9912 2.80	2.48 24.9912 2.80	24.9912 2.80	2.80		0.2082		2.83	0.0341	3.43	1219.12	5.66	3307.87	5.60	680.01	98.9
0.7877 2.64 23.3182 2.48	0.7877 2.64 23.3182 2.48	2.64 23.3182 2.48	23.3182 2.48	2.48		0.2147		2.37	0.0232	2.54	1253.72	4.75	3240.32	4.97	465.63	5.09
5.10 0.7371 5.68 41.2476 5.37	0.7371 5.68 41.2476 5.37	5.68 41.2476 5.37	41.2476 5.37	5.37		0.4061		5.19	0.0258	5.28	2197.15	10.38	3801.14	10.75	517.05	10.57
2.65 0.8575 3.07 19.4722 2.66	0.8575 3.07 19.4722 2.66	3.07 19.4722 2.66	19.4722 2.66	2.66		0.1651		2.77	0.0322	2.84	984.97	5.53	3065.51	5.33	642.08	5.69
2.35 0.8212 1.94 35.6460 2.25	0.8212 1.94 35.6460 2.25	1.94 35.6460 2.25	35.6460 2.25	2.25		0.3148		2.38	0.0248	2.21	1764.30	4.76	3656.70	4.51	496.56	4.43
7.35 0.8483 8.93 26.1980 7.20	0.8483 8.93 26.1980 7.20	8.93 26.1980 7.20	26.1980 7.20	7.20		0.2290		7.14	0.0326	13.63	1329.25	14.29	3353.96	14.40	650.80	27.27
1.61 0.8297 1.61 46.2072 1.62	0.8297 1.61 46.2072 1.62	1.61 46.2072 1.62	46.2072 1.62	1.62		0.4033		1.67	0.0783	1.96	2184.40	3.35	3913.84	3.23	1528.82	3.92
7.97 0.8158 3.71 64.7187 7.23	0.8158 3.71 64.7187 7.23	3.71 64.7187 7.23	64.7187 7.23	7.23		0.5706		8.02	0.0201	8.64	2910.08	16.04	4249.77	14.45	403.38	17.29
2.42 0.7989 2.26 15.1771 2.80	0.7989 2.26 15.1771 2.80	2.26 15.1771 2.80	15.1771 2.80	2.80		0.1374		2.91	0.0568	3.08	829.93	5.82	2826.42	2.60	1119.22	6.17
5.88 0.8136 4.94 10.0932 7.12	0.8136 4.94 10.0932 7.12	4.94 10.0932 7.12	10.0932 7.12	7.12		0.0900		6.91	0.0113	90.7	555.64	13.83	2443.35	14.23	227.76	14.12
2.94 0.8176 2.07 55.8773 3.67	0.8176 2.07 55.8773 3.67	2.07 55.8773 3.67	55.8773 3.67	3.67		0.4956		3.71	0.0525	4.27	2594.84	7.43	4103.06	7.33	1037.88	8.54
0.7880 2.63 4.3508 2.05	0.7880 2.63 4.3508 2.05	2.63 4.3508 2.05	4.3508 2.05	2.05		0.0401		2.03	0.0232	2.47	253.50	4.05	1703.05	4.11	465.29	4.94
0.8415 2.73 674.6510 5.35	0.8415 2.73 674.6510 5.35	2.73 674.6510 5.35	674.6510 5.35	5.35		5.8380		5.38	0.8238	3.74	12393.19	10.77	6615.91	10.71	12180.39	7.49
1.94 0.8408 2.50 8.1740 1.99	0.8408 2.50 8.1740 1.99	2.50 8.1740 1.99	8.1740 1.99	1.99		0.0705		1.94	0.0325	2.41	439.35	3.89	2250.47	3.98	648.85	4.82
7.61 0.7845 11.91 8.8044 7.82	0.7845 11.91 8.8044 7.82	11.91 8.8044 7.82	8.8044 7.82	7.82		0.0816		7.04	0.1494	8.31	505.45	14.07	2317.95	15.63	2822.76	16.62
2.08 0.7987 2.71 3.0586 2.07	0.7987 2.71 3.0586 2.07	2.71 3.0586 2.07	3.0586 2.07	2.07		0.0278		2.20	0.0169	2.47	176.62	4.39	1422.38	4.14	339.14	4.93
1.97 0.8196 2.55 2.9926 2.02	0.8196 2.55 2.9926 2.02	2.55 2.9926 2.02	2.9926 2.02	2.02		0.0265		2.08	0.0149	2.42	168.57	4.15	1405.74	4.05	599.69	4.84
2.31 0.7776 3.05 2.8889 2.59	0.7776 3.05 2.8889 2.59	3.05 2.8889 2.59	2.8889 2.59	2.59		0.0270		2.45	0.0455	3.21	171.60	4.90	1379.01	5.18	902.63	6.42
3.24 0.8887 5.56 5.8915	0.8887 5.56 5.8915 3.80	5.56 5.8915 3.80	5.8915 3.80	3.80		0.0482		3.77	0.0279	4.22	303.69	7.53	1959.98	7.60	558.18	8.44
2.39 0.8013 3.13 4.4585 2.54	0.8013 3.13 4.4585 2.54	3.13 4.4585 2.54	4.4585 2.54	2.54		0.0404		2.37	0.0295	3.15	255.38	4.75	1723.28	2.08	589.53	6.29
2.55 0.8118 2.93 2.2753 3.15	0.8118 2.93 2.2753 3.15	2.93 2.2753 3.15	3.15	3.15		0.0203		2.94	0.0113	4.76	129.76	2.88	1204.65	6.30	228.35	9.53
2.18 0.7928 2.87 2.3408 2.18	0.7928 2.87 2.3408 2.18	2.87 2.3408 2.18	87 2.3408 2.18	2.18		0.0214		2.40	0.0184	3.27	136.56	4.80	1224.76	4.36	368.95	6.54
3.33 0.8154 2.97 5.5417 2.90	0.8154 2.97 5.5417 2.90	2.97 5.5417 2.90	5.5417 2.90	2.90	_	0.0493		3.46	0.0307	3.82	310.31	6.93	1907.10	5.79	612.97	7.64
3.45 0.8295 3.43 3.7468 3.36	0.8295 3.43 3.7468 3.36	3.43 3.7468 3.36	3.7468 3.36	3.36		0.0327		3.64	0.0242	3.81	207.43	7.28	1581.43	6.73	485.39	7.63
2.13 0.7979 2.77	0.7979 2.77 3.6736 2.37	2.77 3.6736 2.37	2.37	2.37		0.0334		2.13	0.0271	3.01	211.66	4.26	1565.65	4.75	542.24	6.02
4.94 0.8286 3.46 6.0907 4.31	0.8286 3.46 6.0907 4.31	3.46 6.0907 4.31	4.31	4.31		0.0536		4.52	0.0222	5.15	336.70	9.05	1988.91	8.62	445.69	10.29
3.85 0.8349 1.48 19.1653 4.14	0.8349 1.48 19.1653 4.14	1.48 19.1653 4.14	4.14	4.14		0.1674		4.37	0.1077	5.10	997.56	8.74	3050.17	8.28	2074.18	10.19
2.78 0.8057 3.71 3.7341 2.85	0.8057 3.71 3.7341 2.85	3.71 3.7341 2.85	2.85	2.85		0.0336		2.80	0.0242	3.27	213.14	2.60	1578.71	5.69	485.28	6.54
2.98 0.7538 3.15 3.0253 2.61	0.7538 3.15 3.0253 2.61	3.15 3.0253 2.61	2.61	2.61		0.0291		3.03	0.0116	3.67	184.97	90.9	1414.03	5.21	233.58	7.34
2.66 0.7104 3.66 1.6658	0.7104 3.66 1.6658 3.14	3.66 1.6658 3.14	1.6658 3.14	3.14		0.0170		2.94	0.0114	4.24	108.79	2.87	995.60	6.28	228.96	8.47
2.97 0.8228 1.65 493.3061 2.95	0.8228 1.65 493.3061 2.95	1.65 493.3061 2.95	493.3061 2.95	2.95		4.3489		2.94	6.4832	5.10	10809.86	5.88	6298.58	2.90	40796.23	10.20
2.54 0.8092 2.62 7.6921 2.94	0.8092 2.62 7.6921 2.94	2.62 7.6921 2.94	7.6921 2.94	2.94		0.0691		2.96	0.0288	2.89	430.51	5.91	2195.68	5.88	575.24	5.78
0.8090	0.8090 3.30 3.7408 2.84	3.30 3.7408 2.84	3.7408 2.84	2.84		0.0335		2.97	0.0237	3.51	212.65	5.93	1580.15	5.69	474.91	7.02
25.94 2.20 0.7795 2.91 4.1168 2.41 0.0384	0.7795 2.91 4.1168 2.41	2.91 4.1168 2.41	4.1168 2.41	2.41		0.0384		2.44	0.0323	3.04	242.92	4.88	1657.63	4.82	644.06	90.9
0.8050 3.07 3.5161 2.31	0.8050 3.07 3.5161 2.31	3.07 3.5161 2.31	3.5161 2.31	2.31		0.0317		2.34	0.0321	3.12	201.03	4.68	1530.84	4.61	639.91	6.24
26.67 2.59 0.8213 3.42 4.2453 3.13 0.0375	0.8213 3.42 4.2453 3.13	3.42 4.2453 3.13	4.2453 3.13	3.13		0.0375		3.09	0.0307	3.58	237.08	6.19	1682.83	6.27	612.08	7.17
3.6159 3.55	0.8258 3.38 3.6159 3.55	3.38 3.6159 3.55	3.6159 3.55	3.55		0.0318		3.38	0.0038	6.47	201.61	6.75	1553.04	7.09	77.04	12.94
	0.8196 4.64 2.3884 3.93	4.64 2.3884 3.93	2.3884 3.93	3.93	_	0.0211		4.08	0.0068	4.37	134.83	8.16	1239.14	7.86	138.06	8.74
3.60	0.8780 3.32 7.5270 3.60	3.32 7.5270 3.60	7.5270 3.60	3.60		0.0620		4.05	0.0071	4.24	388.07	8.09	2176.20	7.20	143.38	8.48
3.28 0.8104 4.35 5.3217 3.79	0.8104 4.35 5.3217 3.79	4.35 5.3217 3.79	3.79	3.79		0.0476		3.54	0.0070	6.41	299.51	7.07	1872.36	7.58	140.74	12.82
6.25 0.8035 5.69 1.9094 6.06	0.8035 5.69 1.9094 6.06	5.69 1.9094 6.06	90.9	90.9		0.0172		7.40	0.0029	11.01	110.06	14.81	1084.36	12.13	57.79	22.02
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Appendix B: Eastern Sunda arc geochronology data - apatite

Analysis ID	238U/206Pb	1s%	207Pb/206Pb	18%	207Pb/235U	15%	206Pb/238U	1s%	208Pb/232Th	18%	206Pb/238U	2s%	207Pb/235U (calc)	2s%	208Pb/232Th	2s%
	78 53	5.66	natio 0.8037	3.77	(calc) ratio	4 69	0.0350	4 27	n 0 0053	5 04	Age (Ma)	8.54	Age (IVIa) 1609 22	9.37	Age (Ma)	10.09
	25.78	3.82	0.7799	5.71	4.2050	3.76	0.0390	4.31	0.0046	7.23	246.79	8.63	1674.99	7.53	93.07	14.46
	122.21	10.17	0.7270	6.98	0.8162	9.41	0.0081	11.22	0.0011	9.21	52.00	22.43	605.95	18.82	22.28	18.41
	16.45	2.47	0.8462	3.18	7.0893	2.69	0.0607	2.73	0.0114	3.84	379.87	5.47	2122.70	5.38	229.82	7.68
BHF-04 ap10	2.44	5.18	0.8504	0.83	47.8979	4.16	0.4085	4.18	0.0688	3.79	2207.94	8.35	3949.57	8.33	1348.06	7.57
BHF-04 ap11	91.74	10.71	0.7998	7.17	1.1942	9.55	0.0109	10.68	0.0034	9.04	68.89	21.36	797.91	19.10	68.33	18.08
	12.59	3.24	0.7537	3.77	8.2555	3.62	0.0794	3.46	0.0130	4.19	492.37	6.92	2259.44	7.23	262.36	8.38
BHF-04 ap13 BHE-04 ap14	27.32	6.03	0.7349	80. 00 40. 00 40	4.7518	0.10	0.0467	16.0	0.0256	7.49	294.30	13.01	1/74.08	12.20	67 92	73.85
BHF-04 ap 15	89.39	. 85 - 85 - 95	0.7163	6.03	1.1002	6.75	0.0111	6.80	0.0005	4.52	71.46	13.60	753.46	13.51	9.19	9.03
BHF-04 ap 16	22.05	2.20	0.7558	3.04	4.7310	2.44	0.0454	2.32	0.0097	2.79	286.36	4.63	1772.74	4.87	194.78	5.58
BHF-04 ap17	0.33	4.12	0.8558	0.67	354.5889	4.29	3.0086	4.39	0.3884	4.55	8950.47	8.79	5964.13	8.58	6651.67	9.10
BHF-04 ap18	11.35	3.52	0.7844	4.37	9.5499	4.07	0.0884	4.20	0.0161	4.77	545.94	8.40	2392.36	8.13	323.00	9.53
BHF-04 ap19	44.28	3.79	0.7365	5.28	2.2910	4.14	0.0224	3.99	0.0073	5.42	143.05	7.97	1209.53	8.29	147.47	10.85
BHF-04 ap20	8.30	4.16	0.7199	5.45	11.8995	4.59	0.1200	4.19	0.0149	4.79	730.76	8.38	2596.53	9.18	298.99	9.58
BHF-04 ap21	22.26	3.02	0.8050	3.74	4.9929	3.26	0.0450	3.37	0.0080	3.70	283.83	6.73	1818.11	6.52	161.29	7.40
BHF-04 ap22	22.42	2.87	0.8550	3.75	5.2720	2.90	0.0447	3.20	0.0070	4.01	281.62	6.40	1864.33	5.80	140.77	8.01
BHF-04 ap24	21.90	3.77	0.8118	3.21	5.1199	3.33	0.0458	3.37	0.0119	3.66	288.44	6.75	1839.41	6.65	240.51	7.32
BHF-04 ap25	10.33	9.21	0.8096	16.12	10.7845	6.71	0.0977	8.67	0.0260	9.39	600.63	17.34	2504.74	13.42	520.64	18.77
BHF-04 ap26	110.65	3.78	0.7353	5.62	0.9160	4.41	0.0090	3.83	0.0021	5.52	58.06	7.66	92.099	8.82	42.83	<u>1</u> .8
BHF-04 ap27	21.23	2.56	0.8025	3.37	5.2083	2.62	0.0471	2.78	0.0069	3.23	296.44	5.55	1853.97	5.24	138.38	6.45
BHF-04 ap28 BHE-04 ap29	40.111	1.37	0.7512 0.757	5.59	0.9309	7.48	0.0090	78.97	0.0012	6./3	285.18	13.94	1809 14	14.97	24.76	13.46
BHF-04 ap 30	17.27	3.66	0.8394	3.68	6.6477	3.68	0.0574	4.52	0.0105	5.56	359.94	9.04	2065.70	7.37	211.33	1.1
BHF-04 ap31	4.20	4.41	0.8414	1.50	27.7083	3.28	0.2393	3.30	0.0951	4.30	1383.22	6.61	3408.83	92.9	1840.88	8.59
BHF-04 ap32	12.64	5.17	0.8444	2.66	9.1903	3.94	0.0790	4.18	0.0136	4.83	489.93	8.36	2357.15	7.87	273.88	9.65
BHF-04 ap33	3.96	1.03	0.8259	0.98	28.7282	1.12	0.2521	1.03	2.0762	1.67	1449.42	2.06	3444.28	2.25	22776.94	3.35
BHF-04 ap34	16.39	5.01	0.7733	5.94	6.5122	4.62	0.0611	5.14	0.0114	5.76	382.46	10.27	2047.55	9.24	230.76	11.51
	40.53	3.16	0.8257	4.28	2.8087	3.96	0.0247	3.65	0.0162	4.37	157.08	7.30	1357.87	7.92	326.03	8.74
	19.05	3.16	0.8157	3.02	5.8912	3.51	0.0524	3.07	0.1346	3.80	328.96	6.14	1959.93	7.03	2559.40	7.61
	02.7	7.75 C. 79	0.7814	3.23	14.7355	2.93	0.1372	3.16	0.1004	3.33	828.56	6.33	2798.31	5.87	1938:84	6.65
	78.57	- c - c	0.7881	2.3	3.0127	2.08	0.0338	2.18	0.0445	2.58	128 24	75.4	1363.46	7.10	862.99	5.17
	11.06	1.78	0.8120	2.30	10.0748	1.37	0.0201	1.83	0.0239	2.04	557.61	3.66	244166	3.57	5022 03	3.27 4.46
	14.37	1.67	0.7634	2.09	7.3256	2.08	0.0696	1.79	0.1044	2.23	433.78	3.58	2151.94	4.17	2013.12	4.47
	1.49	1.90	0.8255	1.87	76.2681	1.90	0.6702	1.90	0.4652	2.12	3306.64	3.80	4414.16	3.81	7743.16	4.23
MLG-01 ap3	1.08	1.82	0.8327	1.66	105.8547	<del>2</del>	0.9215	1.83	0.7836	1.97	4210.20	3.67	4743.33	3.69	11728.86	3.94
MLG-01 ap4	3.10	5.57	0.7541	5.63	32.9250	5.45	0.3185	6.27	0.2155	60.9	1782.18	12.54	3578.36	10.84	3955.53	12.19
MLG-01 ap5	1.03	2.02	0.7911	1.85	105.8671	2.11	0.9713	2.02	0.6828	2.16	4375.16	4.05	4743.45	4.22	10549.76	4.31
MLG-01 ap6	1.31	1.86	0.8206	1.77	86.7098	1.87	0.7673	1.87	0.5681	2.02	3670.98	3.74	4542.86	3.74	9119.29	4.03
MLG-01 ap7	1.37	2.02	0.8252	2.14	83.2187	2.02	0.7319	2.11	0.5502	2.54	3540.58	4.22	4501.62	4.03	8886.01	2.08
MLG-01 ap9	4.00	2.78	0.8081	3.44	27.8320	3.24	0.2500	3.02	0.2116	3.20	1438.59	6.05	3413.20	6.47	3890.80	6.40
MLG-01 ap10	1.22	1.79	0.8231	1.69	92.9231	1.81	0.8186	1.80	0.6306	1.93	3855.32	3.60	4612.35	3.63	9910.30	3.86
MLG-01 ap11	5.79	3.13	0.8054	3.55	19.1285	2.96	0.1711	3.59	0.1445	3.66	1017.93	7.17	3048.32	5.93	2736.12	7.33
MLG-01 ap12	1.25	1.87	0.8376	1.78	91.8533	1.88	0.7959	1.88	0.5766	2.10	3774.55	3.77	4600.72	3.77	9228.76	4.19
MLG-01 ap13	0.97	1.95	0.8352	1.65	119.3701	1.99	1.0376	1.86	0.7477	2.14	4588.39	3.73	4864.27	3.98	11316.87	4.28
MLG-01 ap15	4.49	3.42	0.8242	4.34	25.2977	3.51	0.2230	3.45	0.1573	4.57	1297.76	6.91	3319.78	7.01	2961.61	9.14
MLG-01 ap16	1.31	1.93	0.8512	1.63	89.3276	1.74	0.7614	1.85	0.6449	1.98	3649.35	3.70	4572.72	3.49	10087.62	3.95
MLG-01 ap17	4.55	2.83	0.7721	3.47	23.4451	2.91	0.2206	2.83	0.1637	3.40	1285.00	5.65	3245.60	5.82	3073.82	6.80
MLG-01 ap18	6.22	3.15	0.8204	3.92	18.2015	3.30	0.1610	3.15	0.1364	3.64	962.50	6.30	3000.44	09.9	2591.28	7.29

Appendix B: Eastern Sunda arc geochronology data - apatite

238U/206Pb	3	207Pb/206Pb		207Pb/235U		206Pb/238U	3	208Pb/232Th		206Pb/238U	3	207Pb/235U (calc)	è	208Pb/232Th	ě
<del></del>	1s%	ratio	18%	(calc) ratio	1s%	ratio	1s%	ratio	15%	Age (Ma)	2s%	Age (Ma)	2s%	Age (Ma)	2s%
	1.87	0.8176	1.85	73.0895	1.99	0.6490	1.86	0.4347	2.20	3224.13	3.72	4371.50	3.98	7316.69	4.40
	1.79	0.8299	1.88	49.5091	1.86	0.4331	1.79	0.2341	1.93	2319.89	3.57	3982.49	3.72	4263.82	3.86
	1.68	0.8198	1.52	101.1863	1.72	0.8949	1.69	0.5803	1.81	4120.17	3.38	4697.97	3.43	9276.39	3.62
	2.79	0.8073	3.53	16.0718	2.76	0.1453	2.79	0.0902	3.21	874.36	5.58	2881.08	5.52	1750.38	6.43
	2.81	0.8341	3.93	23.1641	2.79	0.2020	2.82	0.1598	3.54	1186.04	5.64	3233.86	5.58	3004.54	7.08
	1.69	0.8418	1.64	70.8697	1.72	0.6110	1.79	0.5909	1.87	3073.87	3.57	4340.62	3.45	9411.23	3.74
	1.88	0.8310	1.70	116.5953	1.91	1.0192	1.90	0.7361	1.99	4529.74	3.80	4840.58	3.82	11181.99	3.98
	1.55	0.8339	1.35	117.3748	1.58	1.0223	1.55	0.8073	1.64	4539.72	3.10	4847.29	3.16	11996.49	3.29
	1.72	0.8260	1.44	114.3614	1.67	1.0066	1.72	0.7762	1.83	4489.38	3.44	4821.11	3.35	11644.75	3.67
	1.99	0.8298	1.64	64.3693	2.06	0.5648	2.00	0.6333	1.92	2886.47	4.00	4244.36	4.13	9944.39	3.84
	1.79	0.8178	1.71	73.5124	1.77	0.6528	1.76	0.4090	2.08	3239.08	3.53	4377.28	3.54	6920.29	4.17
	1.89	0.8396	1.89	69.8941	1.88	0.6061	1.87	0.4067	2.22	3054.35	3.75	4326.74	3.76	6916.55	4.43
	2.88	0.9445	3.64	9.9929	2.86	0.0772	2.89	0.0567	3.38	479.20	5.77	2434.13	5.73	1117.59	92.9
0.09	4.47	0.8539	0.36	1367.9835	3.89	11.6570	3.82	22.5455	3.64	16362.29	7.64	7332.92	7.78	64031.15	7.29
	3.52	0.8135	2.77	39.3043	3.50	0.3511	3.67	0.2067	3.08	1939.95	7.34	3753.32	7.01	3808.84	6.16
	3.62	0.8538	4.52	17.4710	3.47	0.1477	4.26	0.0937	5.61	887.88	8.51	2961.06	6.94	1815.36	11.21
6.04	2.41	0.7904	3.02	17.9358	2.43	0.1649	2.48	0.0770	2.90	983.88	4.95	2986.30	4.86	1504.18	5.81
0.08	2.76	0.8704	0.91	1521.0144	3.21	12.6841	2.83	7.7033	2.65	16865.29	5.65	7440.51	6.42	43857.97	5.29
2.76	2.67	0.8604	3.00	42.9627	2.98	0.3626	2.74	0.2163	2.98	1994.40	5.48	3841.54	5.95	3968.93	5.96
3.63	8.35	0.8433	4.63	30.8491	9.15	0.2684	9.65	0.1834	9.41	1532.44	19.30	3514.25	18.31	3412.97	18.82
10.65	2.89	0.7973	3.73	10.3335	3.06	0.0942	2.89	0.0580	3.81	580.40	5.78	2465.11	6.12	1143.57	7.63
4.40	4.45	0.8209	2.31	25.7191	4.09	0.2278	4.00	0.1365	3.67	1323.04	8.01	3335.92	8.19	2594.42	7.35
0.08	5.34	0.8508	0.29	1553.0550	3.35	13.2420	3.33	9.1687	2.95	17122.87	29.9	7461.67	6.70	47012.23	2.90
1.68	2.27	0.8457	1.37	69.6954	2.59	0.5964	2.22	0.4686	3.38	3015.21	4.44	4323.89	5.17	7790.55	92.9
9.25	4.95	0.7345	6.64	10.9616	5.05	0.1083	4.99	0.0814	5.62	662.97	9.98	2519.88	10.09	1587.14	11.25
5.25	7.80	0.7974	8.14	21.3175	9.60	0.1918	8.58	0.1502	9.69	1131.11	17.15	3153.14	19.19	2835.98	19.37
0.68	2.47	0.8666	2.00	176.3904	2.43	1.4802	2.45	1.0881	2.55	5855.49	06.4	5258.01	φ. 4 υ ς	14923.86	5.09
3 6		0.6082	5 4	3 0024	2	0.000		0.0103	0. 4	921.64	5 6	2670.00	2 0	1848 24	70.01
26.5	620	0.2302	8 2	16.6079	6.33	0.1671	6.10	0.1276	8 44	996 17	12.21	2912.47	12.65	2433.72	16.87
2.17	4.66	0.8078	5.98	51.7532	5.94	0.4656	4.92	0.3151	6.84	2464.15	9.83	4026.63	11.87	5551.93	13.67
4.73	5.26	0.7865	6.52	23.2388	6.64	0.2097	5.39	0.1822	7.54	1227.16	10.78	3237.00	13.29	3392.45	15.07
4.36	3.86	0.8048	4.67	25.4888	3.82	0.2303	4.06	0.1785	5.09	1335.83	8.12	3327.13	7.63	3328.62	10.17
10.90	4.03	0.8004	5.30	10.1327	4.01	0.0920	4.06	0.0600	5.06	567.13	8.11	2446.96	8.02	1181.46	10.12
3.48	3.94	0.8755	4.60	34.7819	3.74	0.2887	3.89	0.1975	4.50	1634.95	7.79	3632.47	7.48	3653.85	8.99
0.55	2.85	0.8286	1.70	208.1163	2.81	1.8228	2.82	1.5208	2.87	6689.59	5.64	5425.08	5.62	18741.40	5.73
11.31	5.49	0.8212	7.25	10.0531	5.33	0.0893	5.48	0.0687	6.53	551.37	10.96	2439.68	10.67	1346.25	13.05
1.18	4.06	0.8424	2.79	97.5464	3.61	0.8417	4.45	0.6304	3.96	3936.82	8.90	4661.14	7.21	9909.03	7.92
10.92	4.80	0.8363	8.11	10.5339	5.29	0.0916	5.21	0.0837	5.37	564.70	10.43	2482.91	10.59	1629.86	10.74
0.51	3.95	0.8534	1.86	230.4922	3.62	1.9634	4.26	1.3406	3.76	7002.97	8.52	5528.30	7.24	17237.79	7.53
0.79	3.08	0.8590	2.55	150.3147	3.53	1.2558	3.01	1.1211	3.96	5244.16	6.03	2096.58	7.05	15241.27	7.91
1.74	4.90	0.8306	3.02	66.1274	6.52	0.5803	6.81	0.4171	7.18	2949.94	13.61	4271.30	13.04	7066.39	14.36
11.17	4.72	0.7920	6.20	9.7977	4.61	0.0900	4.71	0.0704	5.73	555.55	9.45	2415.94	9.23	1379.68	11.46
0.57	3.17	0.8479	2.00	207.2408	2.72	1.7724	2.90	1.3006	2.60	6573.41	5.80	5420.82	5.44	16887.88	5.19
0.19	2.73	0.8423	0.85	596.4258	3.44	5.1354	3.26	3.5595	3.46	11694.30	6.52	6490.97	6.88	30753.75	6.93
0.19	5.92	0.8381	1.05	615.1338	5.65	5.3151	2.57	4.0107	00.9	11880.34	11.14	6522.28	11.30	32666.22	12.00
0.17	4.23	0.8487	1.36	696.5243	3.65	5.9629	3.61	3.7345	3.65	12509.89	7.21	6648.26	7.30	31517.25	7.29
7.86	5.05	0.8660	5.73	15.2911	5.10	0.1289	6.10	0.0803	99.9	781.63	12.21	2833.55	10.19	1566.14	13.31
	3.06	0.8351	3.03	46.6105	3.26	0.4056	3.20	0.3224	4.12	2194.81	6.40	3922.48	6.52	5664.74	8.24
	5.69	0.6955	99'2	10.6498	6.28	0.1102	5.71	0.0831	8.10	673.67	11.41	2493.06	12.56	1618.01	16.19

Appendix B: Eastern Sunda arc geochronology data - apatite

C. Single	238U/206Pb	70-7	207Pb/206Pb	70~4	207Pb/235U	70-7	206Pb/238U	70-7	208Pb/232Th	4-0/	206Pb/238U	70-0	207Pb/235U (calc)	\0-C	208Pb/232Th	)0=0
Analysis ID	ratio	18%	ratio	1870	(calc) ratio	IS70	ratio	1570	ratio	1570	Age (Ma)	7870	Age (Ma)	VS.70	Age (Ma)	ZS70
PCT-02 ap28	10.50	4.60	0.7098	6.91	9.3043	4.52	0.0952	5.31	0.0680	90.9	586.24	10.63	2368.44	9.03	1333.69	12.13
PCT-02 ap29	0.17	2.83	0.8686	1.12	714.9444	2.33	6.0231	2.43	4.1979	2.11	12565.33	4.86	6674.73	4.66	33409.91	4.21
PCT-02 ap30	0.32	2.88	0.8342	1.56	359.2184	2.37	3.1235	2.69	1.7320	2.91	9132.57	5.38	5977.27	4.75	20371.57	5.81
PCT-02 ap31	10.04	4.75	0.7649	8.09	10.4025	5.44	0.0987	4.99	0.0793	5.82	607.02	9.97	2471.28	10.88	1546.97	11.65
PCT-02 ap32	8.75	2.68	0.7431	8.24	11.7726	5.92	0.1153	5.48	0.0893	6.92	703.67	10.95	2586.49	11.85	1733.73	13.84
PCT-02 ap33	4.14	2.08	0.8085	6.28	26.6983	6.02	0.2405	5.14	0.1670	6.46	1389.35	10.28	3372.47	12.04	3130.67	12.92
PCT-02 ap34	0.32	3.64	0.8570	0.81	369.1597	2.99	3.1256	2.97	2.5525	2.96	9135.85	5.94	6004.91	5.98	25694.87	5.92
PCT-02 ap35	7.99	4.85	0.8029	6.31	13.7878	4.76	0.1246	4.95	0.0847	5.98	757.13	9.90	2735.24	9.52	1647.88	11.96
LB001_ap_1	0.81	4.77	0.8338	3.80	138.4616	4.65	1.2074	4.61	0.0858	4.89	5104.47	9.21	5013.75	9.31	1669.45	9.78
LB001_ap_10	7.07	5.91	0.8922	8.17	17.5546	5.54	0.1425	5.76	0.0090	6.10	858.83	11.53	2965.65	11.08	181.53	12.20
LB001_ap_11	5.97	3.26	0.8056	4.04	18.7013	3.19	0.1681	3.26	0.1134	3.67	1001.55	6.51	3026.54	6.38	2177.29	7.33
LB001_ap_12	20.81	6.27	0.8201	5.97	5.4433	6.18	0.0481	6.72	9600.0	6.23	302.82	13.43	1891.70	12.35	193.01	12.46
LB001_ap_13	11.77	9.48	0.7818	4.26	9.2291	9.48	0.0857	9.37	0.0141	10.74	530.02	18.74	2361.01	18.96	282.87	21.48
LB001_ap_14	18.33	3.92	0.7263	4.79	5.4579	4.66	0.0546	3.89	0.0429	4.73	342.55	7.78	1894.00	9.33	852.32	9.46
LB001_ap_15	2.47	4.58	0.8240	2.93	46.1766	5.28	0.4055	5.15	0.0573	3.11	2194.51	10.31	3913.18	10.56	1129.99	6.23
LB001_ap_16	18.33	8.29	0.7593	11.43	5.7190	8.32	0.0547	8.69	0.0058	9.20	343.03	17.38	1934.24	16.64	118.17	18.40
LB001_ap_17	38.63	16.41	0.7125	7.13	2.5281	13.93	0.0255	13.08	0.0041	6.34	162.26	26.16	1280.16	27.86	83.26	12.67
LB001_ap_18	27.02	12.74	0.7503	8.13	4.0128	15.30	0.0384	19.41	0.0045	21.44	243.03	38.82	1636.80	30.61	90.81	42.87
LB001_ap_19	5.69	2.05	0.8011	2.42	19.4390	2.05	0.1755	2.04	0.1219	2.53	1042.60	4.09	3063.86	4.09	2331.08	5.05
LB001_ap_2	43.15	15.48	0.8141	14.58	2.5890	10.23	0.0228	14.47	0.0038	11.35	145.37	28.94	1297.54	20.47	76.04	22.71
LB001_ap_20	2.20	11.08	0.8031	6.42	49.3617	11.56	0.4577	14.55	0.0485	15.12	2429.58	29.09	3979.52	23.13	959.51	30.23
LB001_ap_3	22.67	9.54	0.7690	7.70	4.6619	13.48	0.0441	13.95	0.0081	12.44	278.34	27.91	1760.44	26.97	164.06	24.89
LB001_ap_4	5.38	5.65	0.8192	4.35	20.9787	4.85	0.1856	4.75	0.0101	5.12	1097.67	9.51	3137.61	69.6	204.51	10.24
LB001_ap_5	19.37	5.04	0.7657	4.07	5.5064	2.67	0.0511	5.12	0.0272	6.02	321.09	10.24	1901.59	1.34	543.02	12.04
LB001_ap_6	15.76	7.64	0.8661	6.29	7.5941	7.51	0.0634	8.33	0.0056	9.04	396.25	16.67	2184.17	15.02	113.33	18.08
LB001_ap_7	19.70	7.52	0.8974	9.78	6.3485	6.84	0.0514	7.46	0.0063	7.88	323.10	14.92	2025.18	13.69	127.57	15.76
LB001_ap_8	3.38	6.61	0.8127	5.12	33.0622	6.33	0.2949	6.33	0.0194	4.29	1665.90	12.65	3582.46	12.67	389.09	8.58
_B001_ap_9	15.41	8.41	0.8397	4.48	7.5927	8.68	0.0659	8.08	0.0064	08.9	411.61	16.15	2184.00	17.37	128.68	13.61
LB010_ap_1	0.04	6.02	0.8531	1.42	3283.3825	5.34	27.8338	5.29	4.1781	4.03	21669.86	10.59	8221.49	10.67	33332.64	9.08
LB010_ap_10	21.68	2.72	0.7990	3.72	5.0658	2.70	0.0461	2.76	0.0364	3.54	290.29	5.52	1830.39	5.40	725.54	7.07
LB010_ap_11	6.07	4.00	0.8372	3.70	19.0423	3.91	0.1650	3.78	0.0257	4.03	984.46	7.56	3043.96	7.83	513.97	8.06
LB010_ap_12	5.24	7.76	0.7686	4.18	20.4654	7.37	0.1908	8.44	0.0438	7.33	1125.48	16.88	3113.61	14.74	868.78	14.66
LB010_ap_13	2.65	11.61	0.7011	5.32	35.7032	12.09	0.3646	10.12	0.0502	9.14	2004.13	20.24	3658.29	24.17	992.76	18.29
LB010_ap_14	5.95	4.05	0.8542	4.92	20.1048	3.86	0.1691	4.04	0.0719	5.54	1007.31	8.07	3096.41	7.72	1407.13	11.09
LB010_ap_15	1.06	<u>4</u> .	0.8483	1.73	110.5764	1.92	0.9461	1.94	0.5872	2.20	4292.08	3.89	4787.24	3.84	9364.58	4.41
LB010_ap_16	1.26	3.88	0.8640	2.55	94.4070	4.15	0.7918	4.04	0.1304	60.9	3759.58	8.08	4628.27	8.29	2485.05	12.19
LB010_ap_17	2.30	9.04	0.8401	4.43	48.0097	4.67	0.4164	8.63	0.0430	10.35	2243.93	17.27	3951.89	9.34	853.28	20.70
LB010_ap_18	1.45	2.18	0.8141	2.23	77.2063	2.23	0.6888	2.17	0.4505	2.43	3377.92	4.35	4426.41	4.46	7538.95	4.85
LB010_ap_19	0.02	11.47	0.8340	0.68	2336.9400	5.31	20.4432	5.13	1.6270	3.47	19760.81	10.26	7876.35	10.62	19577.60	6.93
LB010_ap_2	12.69	6.12	0.8211	3.97	8.8329	5.56	0.0785	5.71	0.0289	5.83	487.09	11.43	2320.89	11.12	577.61	11.65
LB010_ap_20	2.34	3.49	0.7888	3.20	46.6469	3.72	0.4241	3.36	0.0950	3.25	2279.25	6.72	3923.26	7.45	1838.88	6.49
LB010_ap_21	3.48	10.39	0.8635	4.06	33.7792	7.78	0.2845	7.65	0.0481	8.07	1613.89	15.30	3603.62	15.56	951.30	16.15
LB010_ap_22	10.02	2.47	0.8338	3.08	11.4758	2.37	0.0998	2.47	0.0656	3.02	613.36	4.94	2562.62	4.75	1287.34	6.03
LB010_ap_23	3.83	7.94	0.8214	4.87	29.9063	8.68	0.2656	8.96	0.0569	8.18	1518.50	17.92	3483.74	17.37	1122.30	16.36
LB010_ap_24	19.59	1.95	0.7630	2.48	5.3683	2.11	0.0510	1.95	0.0382	2.59	320.92	3.91	1879.81	4.21	760.64	5.18
LB010_ap_25	12.65	5.41	0.6568	7.48	7.1897	69.9	0.0796	5.39	0.0107	6.79	493.96	10.78	2135.22	13.37	216.41	13.59
LB010_ap_26	11.79	8.29	0.8709	14.04	10.0659	10.68	0.0898	10.12	0.0129	9.41	554.28	20.24	2440.85	21.37	259.84	18.82
LB010_ap_27	18.34	4.72	0.8240	3.48	6.1734	4.36	0.0541	4.36	0.0321	4.53	339.73	8.72	2000.69	8.72	640.75	90.6
LB010_ap_28	5.66	5.62	0.8303	1.95	20.2796	4.42	0.1772	4.26	0.0302	5.18	1051.52	8.51	3104.78	8.83	603.03	10.36
LB010_ap_3	20.55	2.30	0.8041	2.95	5.4032	2.43	0.0486	2.30	0.0278	2.79	306.14	4.61	1885.37	4.86	555.01	5.59

Appendix B: Eastern Sunda arc geochronology data - apatite

1s% 207Pb	207Pb/20 ratio	6Pb	18%	207Pb/235U (calc) ratio	18%	206Pb/238U ratio	18%	208Pb/232Th ratio	18%	206Pb/238U Age (Ma)	2s%	207Pb/235U (calc) Age (Ma)	2s%	208Pb/232Th Age (Ma)	2s%
8.29 0.8054 2.52	2.52		7.8810		7.36	0.0717	7.25	0.0252	9.53	446.48	14.50	2217.51	14.72	504.90	19.06
3.26 0.7509 4.79	4.79		23.2625		4.16	0.2273	3.47	0.0951	4.40	1320.31	6.93	3237.99	8.32	1840.80	8.79
9.68 3.61 0.7248 4.78 10.3390 3	4.78 10.3390 2.12 107.3102	10.3390		(+) U.	3.67	0.1036	3.89	0.0563	4.39	635.42	7.78	2465.60	7.33	1110.41	8.78
2.26 0.8032 2.31 9.7236	2.31 9.7236	9.7236		, vi	2.46	0.0878	2.47	0.0224	3.31	542.50	4.95	2408.94	4.93	449.46	6.63
6.38 0.8426 4.57 349.1513	4.57 349.1513	349.1513		9	6.26	3.0028	6.34	0.2033	4.05	8941.11	12.67	5948.49	12.52	3751.32	8.10
0.81 3.53 0.8333 1.60 142.1255 3. 1.50 3.90 0.8475 3.83 77.9231 4.	3.83 77.9231	77,9231		9. 4.	3.49	1.2357	3.89 89.89	0.7064	3.14 4.74	3314.55	6.90	5040.08	6.98 8.21	10831.42	9.48
2.22 0.8153 1.80 118.4238	1.80 118.4238	118.4238		2	2.27	1.0553	2.22	0.6174	2.16	4644.09	4.43	4856.25	4.54	9745.73	4.31
0.8184 3.42 63.3793	3.42 63.3793	2 63.3793		κi	3.17	0.5607	3.24	0.3333	4.42	2869.57	6.48	4228.86	6.34	5831.31	8.85
3.81 0.8054 4.63 24.8684	4.63 24.8684	3 24.8684		4	4.17	0.2239	3.83	0.1219	4.72	1302.29	7.66	3303.06	8.34	2331.64	9.44
3.07 0.8359 3.24 62.3582	3.24 62.3582	4 62.3582		2, 0	2.98	0.5385	3.07	0.3236	3.80	2777.04	6.13	4212.63	5.95	5683.32	7.61
2.86 2.82 0.8133 3.17 39.3826 2. 4.32 3.27 0.8453 2.27 80.4062 3	3.17 39.3826	39.3826		N C	Z. /3	0.3501	2.80	0.2100	3.82	1934.90	5.60	3/55.29	5.40	3863.64	40.0
1.99 0.8355 1.87 93.61.37	1.87 93.6137	7 93.6137		0 0	202	0.8125	2.00	0.5049	2.36	3833.82	4.00	4619 79	8. 4	8285 10	4 72
2.23 0.8354 1.63 127.2510	1.63 127.2510	3 127.2510		- 7	2.14	1.1048	2.05	0.6351	2.00	4797.49	4.10	4928.66	4.28	9966.40	4.01
0.8159 2.13 125.5636	2.13 125.5636	3 125.5636		7	2.91	1.1181	2.66	0.6367	3.66	4838.05	5.32	4915.21	5.81	9986.46	7.32
2.88 0.8059 3.34 35.7302	3.34 35.7302	4 35.7302		ю.	3.02	0.3214	2.88	0.1829	3.41	1796.80	5.76	3659.03	6.03	3405.05	6.82
3.21 0.8060 3.50 54.3732	3.50 54.3732	0 54.3732		e,	3.35	0.4894	3.35	0.2987	4.18	2568.11	6.70	4075.85	69.9	5298.20	8.35
3.85 0.7338 4.51 35.5245	4.51 35.5245	35.5245		4	4.22	0.3488	3.83	0.2008	5.10	1928.69	99.2	3653.33	8.4	3709.90	10.19
1.02 2.74 0.8421 2.75 113.4551 3.23	2.75 113.4551	5 113.4551		ю d	3 33	0.9738	2.93	0.5632	3.64	4383.24	5.85	4813.10	6.45	9055.09	7.28
3.91 0.7920 4.73 50.0767 1.85 0.8346 1.43 185.5320	1.43 185 5320	3 56.0767		←	5.97 P. 85	1.6125	ა. ა. გ.	0.2871	08:4 0 47	6190.49	3.72	4 106.61	7.93	51.16.25	3.9
2.12 0.8134 1.53 170.6870	1.53 170.6870	3 170.6870		· ~	1.87	1.5183	2.12	0.8870	2.34	5953.90	4.24	5224.83	3.74	12870.83	4.68
2.67 0.8072 2.95 46.6654	2.95 46.6654	5 46.6654			2.62	0.4182	2.67	0.2304	2.92	2252.46	5.34	3923.65	5.23	4202.54	5.84
4.02 0.7879 4.58 45.8150	4.58 45.8150	8 45.8150		•	4.43	0.4232	4.33	0.2587	4.74	2275.18	8.66	3905.37	8.86	4663.33	9.49
3.71 0.8127 4.54 55.0239	4.54 55.0239	4 55.0239			3.80	0.4913	3.72	0.2647	4.35	2576.22	7.43	4087.71	7.60	4760.86	8.69
1.60 3.87 0.8083 4.02 69.0968 3	4.02 69.0968	2 69.0968		m c	3.89	0.6194	3.87	0.3862	4.92	3107.45	7.75	4315.25	7.78	6619.99	9.85
3.35 0.7963 3.67 53.7180	3.67 53.7180	53.7180			2 × 5 5 4	0.0967	3.39	0.3776	4.07	2569.41	6.77	4476.18	6.88	6492.70	4, 60 - 4, 4, 4, 4, 4, 4, 4, 4, 4, 4, 4, 4, 4,
2.96 0.7952 3.14	3.14	4	58.9177		3.04	0.5377	2.96	0.3143	3.59	2773.76	5.91	4155.93	90.9	5539.23	7.19
7	4.27	7	40.6821		3.66	0.3307	3.83	0.2183	4.65	1841.53	7.67	3787.45	7.33	4003.03	9.31
3.19 0.8279 3.23 75.2024	3.23 75.2024	3 75.2024		.,	3.31	0.6518	3.33	0.3923	3.41	3235.25	6.65	4400.05	6.61	6708.14	6.81
0.8151 2.33	2.33	8	62.2828		2.23	0.5534	2.26	0.3351	2.39	2839.42	4.53	4211.42	4.46	96.7585	4.78
2.93 0.8184 3.06 65.8586	3.06 65.8586	65.8586		n	3.01	0.5838	2.95	0.3793	3.85	2964.23	5.90	4267.23	6.02	6518.14	7.69
2.82 0.8711 3.46 25.1758	3.46 25.1758	6 25.1758		•	2.67	0.2095	2.91	0.1328	3.18	1226.04	5.83	3315.06	5.33	2527.58	6.37
2.10 0.8534 2.15 59.4907	2.15 59.4907	5 59.4907			20.04	0.5057	2.09	0.3035	2.30	2638.14	4.19	4165.60	4.08	5372.18	4.61
1.01 2.19 0.8365 1.93 113.7762 2	1.93 113.7762	3 113.7762		N 4	2.33	0.9880	2.14	0.5949	2.59	4429.66	4.28	4815.95	9.4.66	9462.22	5.17
0.500.0	2000	0.0000		,	; ;	0.000	,	0.001	0 1	101.02	5 6	10.1.604	2 1	200.000	90.
4.33 0.7577 5.61 16.2870	5.61 16.2870	16.2870		4	4	0.1562	4.38	0.0970	5.45	935.37	8.76	2893.80	8.87	1875.81	10.90
5.06 0.7758 5.06 90.7315	5.06 90.7315	6 90.7315		Ω.	2.09	0.8493	5.06	0.5103	29.67	3963.14	10.12	4588.38	10.17	8358.07	<del>1</del> .34
5.37 0.8108 5.27 92.4770	5.27 92.4770	7 92.4770		Ω	5.75	0.8282	5.35	0.4958	29.67	3889.44	10.71	4607.52	11.51	8161.22	11.35
4.67 0.7867 5.91 32.5669	5.91 32.5669	1 32.5669		9	80.9	0.3004	4.67	0.2689	6.54	1693.08	9.34	3567.59	12.16	4826.67	13.09
8.99 0.7911 7.70 69.5271 1	7.70 69.5271 1	0 69.5271 1	_	7	5.72	0.6513	15.90	0.5794	11.58	3233.14	31.80	4321.47	31.44	9264.67	23.16
11.53 0.8512 4.18 1	4.18	8	1401.2171		11.53	11.9326	11.56	1.9252	6.03	16501.17	23.13	7357.27	23.05	21756.92	12.07
5.42 0.8493 3.56	3.56	9	409.6751		6.01	3.4975	5.41	1.7992	5.27	9692.23	10.83	6110.38	12.02	20864.44	10.54
5.58 0.8200 4.08	4.08	80	243.3582		5.47	2.1488	5.61	0.4492	5.07	7394.14	11.21	5583.22	10.94	7520.63	10.13
4.77 0.8211 4.11	4.11	_	156.5821		4.69	1.3860	4.77	1.0681	4.92	5605.84	9.54	5137.78	9.38	14728.48	9.84
5.23 0.7924 4.33	4.33	6	178.8970		5.21	1.6401	5.26	0.1217	4.01	6258.35	10.53	5272.26	10.42	2328.23	8.02
0.84 4.92 0.8483 4.38 139.8428 4	4.38 139.8428	8 139.8428		•	4.80	1.1924	4.92	0.7492	4.97	5060.36	9.85	5023.75	9.60	11334.23	9.93

Appendix B: Eastern Sunda arc geochronology data - apatite

5.04
0.0020 12.17 84.70
1.0890 4.20 5138.99
3.81 1.0890 4.20 5138.99 4.96 0.1298 6.29 2837.74
0.1298 6.29 0.1153 4.64
18
18
_
2.5346 0.0965
o 20 4
0.7995 3.45
0.7987 0.7995 0.8188
3.66
0.01 5.20 0.33 6.62 0.10 8.80 0.39 7.20 10.43 3.66 3.42 7.32 10.49 2.70

Appendix B: Eastern Sunda arc geochronology data - apatite

	18%	207Pb/206Pb	18%	207Pb/235U (calc) ratio	18%	206Pb/238U	18%	208Pb/232Th ratio	1s%	206Pb/238U Age (Ma)	2s%	207Pb/235U (calc) Age (Ma)	2s%	208Pb/232Th Age (Ma)	2s%
6.15 0.8	0.6	0.8618	2.22	1444.2971	10.37	12.2299	10.62	0.8409	8.48	16647.69	21.24	7388.00	20.73	12369.64	16.96
	0	0.7899	5.71	22.6284	5.61	0.2083	5.91	0.0101	7.48	1219.88	11.82	3211.10	11.22	203.05	14.97
3.65 0.7	0.7	0.7907	3.78	20.2256	3.72	0.1851	3.97	0.0135	3.87	1094.75	7.94	3102.21	7.43	271.62	7.73
	0.9	0.9004	9.45	178.5670	11.01	1.4381	11.32	0.0683	8.61	5745.14	22.65	5270.40	22.01	1339.10	17.21
	0.7	0.7818	3.16	94.5793	3.80	0.8739	3.51	0.0547	4.06	4048.40	7.02	4630.10	7.59	1079.68	8.12
	9.0	0.8511	0.77	3803.3191	4.28	32.8549	4.12	0.9962	3.52	22704.73	8.25	8370.71	8.57	14011.17	7.03
	ō o	0.6817	11.09	3.8430	9.93	0.0428	10.40	0.0072	7.67	269.88	20.80	1601.81	19.85	146.04	15.35
11.49 0.3	Š č	0.8147	5.25	39.9884	06.7	0.3539	8.17	0.0280	5.08	1953.35	45.04	3770.41	0.6. 1.80	559.64	10.17
	o c	0.7867	4 22	2.8308	13.27	0.0393	10.94	0.0021	11.13	167.36	21.88	1363.73	26.53	43.26	22.26
	Ö	0.8317	5.26	5.3086	4.51	0.0462	4.17	0.0061	5.09	291.36	8.34	1870.25	9.01	123.34	10.18
	0	0.7969	4.27	69.1179	4.88	0.6282	4.85	0.0374	4.93	3142.26	9.69	4315.56	9.76	744.08	9.86
	0	0.8129	2.72	9.0729	3.11	0.0809	3.53	0.0100	3.44	501.66	7.05	2345.38	6.21	201.10	6.88
	0	0.7831	3.67	11.7738	2.83	0.1092	3.37	0.0279	3.33	668.10	6.74	2586.58	5.66	558.24	6.67
	0	0.8146	4.52	13.5694	3.43	0.1199	3.80	0.0159	4.45	730.24	7.59	2720.13	98.9	319.70	8.90
	0	0.7731	6.16	24.5167	5.21	0.2300	5.02	0.0165	7.50	1334.54	10.04	3289.16	10.42	330.94	15.00
4.99 0.	0	0.7314	6.70	7.6423	5.08	0.0753	6.18	0.0154	6.28	468.17	12.37	2189.84	10.17	309.43	12.56
		0.7116	13.57	6.0295	8.55	0.0615	10.84	0.0043	8.91	385.01	21.69	1980.12	17.10	87.14	17.81
3.10 0.8	9.0	0.8255	3.88	13.5484	3.11	0.1190	3.47	0.0173	4.13	725.06	6.94	2718.67	6.21	348.48	8.27
2.98 0.	0	0.8114	3.81	9.8764	3.70	0.0880	2.98	0.0092	3.75	543.71	5.96	2423.31	7.40	184.81	7.50
	0.0	0.6821	8.28	1.3620	6.13	0.0145	5.82	0.0188	7.29	92.76	11.65	872.74	12.25	377.22	14.58
	0.0	0.6151	66.6	1.4453	7.53	0.0171	6.83	0.0179	9.15	109.14	13.65	907.93	15.05	360.48	18.31
	9.0	0.6788	10.43	6.9162	8.52	0.0741	6.88	0.0680	12.08	460.89	13.77	2100.74	17.04	1333.19	24.16
	0	0.7183	7:37	10.6715	5.91	0.1078	6.33	0.0604	6.58	659.93	12.65	2494.95	11.82	1189.54	13.17
	0	0.7315	6.59	2.8808	4.88	0.0286	4.77	0.0306	6.52	181.78	9.54	1376.89	9.77	610.28	13.04
_	0	0.7806	7.28	11.6547	5.52	0.1085	5.57	0.0092	6.29	664.18	11.14	2577.07	<b>2</b>	185.19	12.57
	Ö (	0.8249	2.81	35.8553	3.05	0.3154	3.68	0.0799	3.51	1/67.14	7.37	3662.49	6.10	1558.52	7.02
_	o	0.8279	3.29	128.6895	3.71	1.1270	4.20	0.0929	4.32	4865.18	8.41	4939.98	7.42	1800.77	8.65
4.40 0.	Ö	0.8725	4.51	26.9678	4.08	0.2260	4.49	0.0411	4.20	1313.73	8.98	3382.30	8.17	817.22	8.40
20	c	7070	0.7	2200	5	0.00	6	0.00	7	247.05	0000	900	90	90 020	20
		10/	- 10.	0.9470	3. 5	0.0000	4: 0	0.0342	<u>-</u>	347.03	20.02	1300.21	20.23	00.070	20.33
	0 0	0.7738	4.37	10.1772	3.36	0.0955	3.38	0.0227	4.50	587.91	6.76	2451.01	6.71	455.74	9:00
		0.6280	70.1	909.0942	2.48	6.0238	74.7	0.1949	2.48	14161.19		0818.30	96.4	6149.02	06.4
F. 4.		0.8058	6.12 4.75	10.7995	9.4.60	0.0970	86.4	0.0141	93.36	3064.87	8.77	2506.02	9.32	283.98	12.00
		0.8374	808	12.5230	6.02	0.1090	627	0.0305	7 49	666.80	12.54	2644 45	12.04	609.55	14.97
		0.8189	1.58	343.9997	2.94	3.0168	2.74	0.3671	2.05	8963.66	5.49	5933.44	5.89	6338.10	4.09
		0.6614	6.53	1.0913	5.39	0.0120	5.36	0.0031	7.22	76.79	10.72	749.14	10.78	61.96	14.45
		0.8279	1.70	195.7988	3.66	1.7174	3.65	0.1246	4.25	6444.27	7.30	5363.44	7.32	2379.62	8.51
5.28		0.8027	7.83	5.6564	5.09	0.0513	5.83	0.0121	6.28	322.22	11.66	1924.73	10.19	243.29	12.57
	J	0.8144	7.87	4.0727	8.15	0.0364	9.63	0.0033	11.82	230.54	19.27	1648.86	16.30	67.48	23.65
	0	0.8385	0.48	1255.5401	5.85	10.8630	5.79	1.1780	3.83	15944.64	11.59	7245.89	11.69	15778.26	7.65
	0	0.7939	29.66	3.0847	20.99	0.0278	27.70	0.0063	41.85	177.04	55.39	1428.89	41.99	126.35	83.69
	0	0.7944	5.19	314.7976	8.08	2.8893	7.61	0.2732	15.77	8755.68	15.21	5843.63	16.16	4896.03	31.54
		0.8122	4.50	432.9831	7.48	3.8641	7.50	0.2417	8.89	10197.43	14.99	6166.43	14.96	4387.48	17.71
5.04		0.7789	3.29	202.4389	4.87	1.8862	4.47	5.5754	7.00	6832.69	8.94	5397.13	9.74	38174.89	14.01
9.33 0	0	0.8845	5.01	59.1921	9.63	0.4847	12.66	0.0243	7.97	2547.50	25.31	4160.57	19.27	487.14	15.94
		20,40	4 07	0903 0390	4	23 6003	2	44	10.04	93 63000	00	6000	00	24 00 00 1	00
14.48 0	0	0.7918	4.87	3658.5868	14.19	33.6993	14.24	11.5015	15.34	22863.56	28.49	8331.33	28.39	51198.54	30.68

Appendix B: Eastern Sunda arc geochronology data - apatite

Analysis ID	238U/206Pb ratio	1s%	207Pb/206Pb ratio	18%	207Pb/235U (calc) ratio	1s%	206Pb/238U	1s%	208Pb/232Th ratio	18%	206Pb/238U Age (Ma)	2s%	207Pb/235U (calc) Age (Ma)	28%	208Pb/232Th Age (Ma)	2s%
SLG-03_ap_9	0.44	6.76	0.8972	6.17	286.2232	6.75	2.3265	6.73	0.5198	5.25	7747.97	13.46	5747.33	13.50	8483.93	10.51
TR-01_ap_1	1.08	3.19	0.8316	2.58	106.7869	2.74	0.9294	3.09	0.6729	3.69	4236.50	6.17	4752.15	5.48	10430.42	7.39
TR-01_ap_10	2.22	3.09	0.7825	3.78	48.4686	3.25	0.4509	3.09	0.3142	3.63	2399.43	6.19	3961.35	6.49	5537.82	7.25
TR-01_ap_11	0.84	2.39	0.8320	2.06	136.5639	2.37	1.1924	2.40	0.8180	2.45	5060.35	4.79	4999.84	4.73	12115.61	4.91
TR-01_ap_12	1.62	3.36	0.8209	3.28	70.1441	3.12	0.6158	3.47	0.4443	3.47	3093.07	6.94	4330.31	6.23	7451.94	6.94
TR-01_ap_13	2.09	3.35	0.8192	3.65	54.4375	3.26	0.4820	3.35	0.3644	4.05	2536.08	6.69	4077.02	6.52	6298.75	8.09
TB 01 00 15	0.82	2.98	0.8507	2.62	143.6399	2.93	1.2246	2.99	0.8244	3.03	5154.27	5.99	5050.77	2.86	12187.14	6.06
TP-01_ap_15	1.5.	79.4	0.0200	0.4	348 4168	79.4	0.7043	- 1.4 - 1.6 - 1.6	0.5735	9.74	3000.00	34.8	4550.64	9.5	9266.72	04.1
TR-01 ap 17	17.1	3.51	0.8084	3.64	65.2865	3.35	0.5852	3.43	0.4149	3.92	2969.72	6.87	4258.50	9.4.99	7035.38	7 85
TR-01 ap 18	1.92	1.98	0.8276	2.01	59.4602	<u>4</u>	0.5195	1.97	0.2984	2.38	2697.00	3.94	4165.09	3.88	5293.24	4.76
TR-01_ap_19	0.95	2.28	0.8334	2.03	119.8886	2.26	1.0448	2.29	0.7653	2.39	4611.18	4.57	4868.63	4.51	11520.00	4.78
TR-01_ap_2	2.41	3.29	0.8548	3.60	49.0173	3.15	0.4148	3.28	0.3076	3.83	2236.67	6.56	3972.55	6.31	5436.17	99'.
TR-01_ap_20	1.96	2.58	0.8268	2.73	58.1007	2.52	0.5097	2.58	0.3619	2.86	2655.34	5.17	4141.99	5.05	6260.29	5.71
TR-01_ap_21	0.20	2.13	0.8371	1.09	580.7091	2.07	5.0309	2.06	3.2883	1.90	11583.54	4.11	6463.90	4.13	29510.61	3.80
TR-01_ap_22	2.28	3.58	0.7923	4.01	47.8008	3.55	0.4372	3.61	0.2933	4.10	2338.28	7.22	3947.55	7.10	5212.62	8.20
TR-01_ap_23	2.40	3.49	0.8048	3.86	46.5052	3.66	0.4178	3.46	0.3085	3.87	2250.59	6.92	3920.23	7.32	5450.48	7.73
TR-01_ap_24	1.06	2.64	0.8332	2.25	107.8228	2.66	0.9357	2.68	0.6871	2.97	4257.78	5.36	4761.86	5.32	10600.93	5.94
TR-01_ap_25	1.16	2.50	0.8351	2.35	99.3966	2.45	0.8633	2.50	0.6094	2.66	4012.05	4.99	4680.03	4.90	9645.13	5.32
TR-01_ap_27	1.71	3.16	0.7774	3.35	62.8360	3.13	0.5857	3.16	0.4374	3.44	2971.89	6.32	4220.25	6.26	7354.13	6.88
TR-01_ap_28	1.45	2.77	0.8507	2.73	81.2075	2.67	0.6910	2.77	0.5684	3.03	3386.32	5.53	4477.07	5.35	9121.97	6.07
TR-01_ap_29	0.97	3.16	0.8022	2.96	113.3901	3.15	1.0238	3.19	0.7379	3.37	4544.59	6.39	4812.52	6.31	11202.44	6.73
TR-01_ap_3	1.13	2.80	0.8211	2.67	100.6714	2.76	0.8908	2.86	0.6788	2.97	4106.43	5.72	4692.84	5.53	10501.06	5.94
TR-01_ap_30	0.76	2.26	0.8381	1.78	151.0717	2.33	1.3078	2.15	0.9997	2.46	5390.99	4.30	5101.64	4.66	14046.48	4.91
TR-01_ap_4	1.70	2.68	0.8065	3.01	65.2374	2.69	0.5867	2.79	0.4297	3.04	2975.87	5.59	4257.75	5.38	7245.72	90.9
TR-01_ap_5	1.09	2.56	0.8466	2.37	106.5778	2.61	0.9124	2.56	0.7215	3.09	4179.56	5.12	4750.18	5.23	11010.41	6.18
TR-01_ap_6	1.99	2.69	0.7931	2.89	55.0087	2.89	0.5025	2.73	0.3484	3.34	2624.40	5.47	4087.43	5.78	6059.03	69.9
TR-01_ap_7	1.38	3.21	0.8009	2.68	79.2212	3.23	0.7191	3.42	0.5105	3.11	3492.82	6.85	4452.24	6.47	8359.91	6.23
TR-01_ap_8	2.49	2.76	0.8287	3.07	45.8798	2.70	0.4019	2.79	0.2901	3.27	2177.94	2.58	3906.78	5.39	5162.66	6.54
TR-02_ap_1	8.84	2.99	0.8412	2.58	13.1904	2.60	0.1129	2.98	0.0472	3.32	689.48	2.96	2693.37	5.20	934.54	6.64
TR-02_ap_10	1.12	2.99	0.8421	1.10	104.4178	3.66	0.8964	3.33	0.3890	3.51	4125.48	6.67	4729.59	7.32	6660.58	7.02
TR-02_ap_11	1.36	3.45	0.8272	1.59	84.4767	3.24	0.7375	3.54	0.3006	3.29	3561.47	7.08	4516.67	6.48	5327.61	6.57
TF-02_ap_12	2. S.	4 4	0.8251	2.00	38.5748	79.7	0.3390	84.0	0.1900	79.7	1884.82	78.4	37.34.77	4 10	3333.63	4 1
TB 02 00 13	19:0	13.45	0.8829	5.20	186.4360	44.5	1.5720	13.07	0.4181	13.09	6089.83	26.14	5313.94	70.87	7080.31	70.77
TR-02_ap_14	5.33	3.59	0.7904	2.00	30.3301	3.43	0.2621	3.46	0.11/1	2,88	2286.39	4. 6 6. 9	3945 97	y. 6	2244.00	5.77
TR-02 ap 17	0.89	6.36	0.8343	100	129.9175	4.99	1.1291	5.06	0.3269	5.20	4871.42	10.13	4949.55	66.6	5733.12	10.39
TR-02_ap_18	3.36	3.72	0.8235	2.67	33.8168	4.20	0.2973	4.21	0.1012	4.79	1677.95	8.43	3604.71	8.39	1954.38	9.58
TR-02_ap_19	3.44	2.11	0.8449	2.35	33.9834	2.14	0.2914	2.12	0.1225	2.33	1648.49	4.25	3609.56	4.28	2342.02	4.67
TR-02_ap_20	1.87	10.84	0.8345	5.80	61.3267	13.26	0.5335	4.96	0.1155	12.69	2756.25	9.93	4195.96	26.53	2215.37	25.38
TR-02_ap_22	1.03	2.38	0.8542	2.13	114.5968	2.30	0.9640	2.38	0.1385	2.24	4351.12	4.76	4823.18	4.61	2629.68	4.48
TR-02_ap_23	3.66	2.27	0.8179	2.62	30.9401	2.23	0.2732	2.28	0.0940	2.94	1557.03	4.57	3517.15	4.46	1821.21	5.88
TR-02_ap_24	7.85	2.37	0.8229	1.98	14.5232	2.49	0.1278	2.53	0.0877	2.76	775.16	5.06	2784.52	4.97	1703.84	5.52
TR-02_ap_25	2.11	3.86	0.8627	3.14	56.6525	4.20	0.4717	4.03	0.0817	3.98	2491.20	8.07	4116.80	8.40	1592.69	7.96
TR-02_ap_3	3.44	2.28	0.8184	2.57	32.5971	3.24	0.2907	2.38	0.1271	3.30	1644.95	4.76	3568.50	6.49	2424.44	09.9
TR-02_ap_4	5.86	2.37	0.7872	2.56	18.5997	2.39	0.1704	2.67	0.1386	3.01	1014.35	5.34	3021.29	4.78	2631.65	6.01
TR-02_ap_5	26.81	5.10	0.6940	7.83	3.5833	5.60	0.0373	5.57	0.0047	5.68	236.26	11.14	1545.84	11.20	95.48	11.35
TR-02_ap_6	24.98	3.78	0.7658	3.64	4.2477	4.37	0.0402	3.90	0.0187	4.20	253.77	7.81	1683.28	8.75	375.18	8.41
TR-02_ap_7	4.97	2.47	0.8126	2.97	22.6353	2.43	0.2016	2.49	0.0712	2.96	1184.14	4.99	3211.39	4.86	1394.65	5.92
TR-02_ap_8	0.99	3.73	0.8361	1.69	116.3104	4.03	1.0090	3.83	0.4093	3.42	4497.38	7.65	4838.12	8.05	6954.70	6.84

Appendix B: Eastern Sunda arc geochronology data - apatite

Appendix B: Eastern Sunda arc geochronology data - apatite

Analysis ID	238U/206Pb	18%	207Pb/206Pb	1s%	207Pb/235U	15%	206Pb/238U	18%	208Pb/232Th	15%	206Pb/238U	2s%	207Pb/235U (calc)	2s%	208Pb/232Th	2s%
TR-05 an 9	ratio 8 71	3.25	1810 0.8256	4 00	(calc) ratio 13 1519	3.80	0.1153	3.24	0.0770	4.42	Age (Ma)	6.49	Age (Ma)	7.61	Age (Ma)	8 84
BHF-02 ap1	142.60	8.02	0.7661	7.27	0.7630	9.27	0.0071	9.50	0.0028	9.43	45.90	19.00	575.73	18.55	57.53	18.85
BHF-02_ap10	30.48	7.51	0.7861	3.27	3.5936	6.25	0.0329	09.9	0.0195	6.49	208.98	13.20	1548.12	12.49	392.04	12.98
BHF-02_ap11	34.35	4.58	0.7888	5.37	3.1722	5.69	0.0292	5.45	0.0103	5.22	185.65	10.90	1450.42	11.37	207.25	10.44
BHF-02_ap12	20.31	3.28	0.7865	4.03			0.0493	3.29	0.0139	5.12	310.22	6.57	0.00		280.40	10.24
BHF-02_ap13																
BHF-02_ap14	3.53	2.91	0.8090	3.05	31.6933	2.90	0.2833	2.90	0.1993	3.83	1608.02	5.81	3540.82	5.80	3683.97	99.7
BHF-02_ap15	29.36	2.26	0.7777	2.47	3.6833	2.46	0.0341	2.26	0.0166	2.87	216.36	4.52	1567.76	4.91	334.60	5.74
BHF-02_ap16	24.52	3.05	0.8205	3.64	4.6000	3.25	0.0407	3.21	0.0083	3.72	257.05	6.41	1749.27	6.50	167.44	7.43
BHF-02_ap17	229.17	7.37	0.7065	5.41	0.4326	7.98	0.0044	7.01	0.0007	5.92	28.19	14.02	365.03	15.97	15.02	11.84
BHF-02_ap18																
BHF-02_ap2	95.79	14.64	0.7297	5.43	1.4666	16.16	0.0141	16.67	0.0028	15.32	90.28	33.33	916.72	32.31	26.88	30.63
BHF-02_ap21	27.20	2.82	0.7800	3.36	3.9763	2.87	0.0369	2.81	0.0115	3.57	233.69	5.62	1629.38	5.73	232.56	7.14
BHF-02_ap22	14.21	9.47	0.8084	12.46			0.0709	9.46	0.0079	12.34	441.81	18.91	0.00		160.31	24.68
BHF-02_ap23																
BHF-02_ap24	71.53	10.50	0.7416	4.24	1.4411	5.46	0.0140	5.27	0.0050	6.31	89.54	10.54	906.19	10.91	100.49	12.61
BHF-02_ap25	61.62	7.88	0.6848	7.17	1.5114	8.09	0.0163	7.11	0.0038	8.40	103.91	14.22	935.01	16.17	77.69	16.80
BHF-02_ap27	31.60	2.42	0.8233	2.63	3.5925	2.52	0.0316	2.73	0.0134	4.21	200.75	5.47	1547.87	5.04	269.76	8.41
BHF-02_ap28	38.12	6.47	0.7616	4.55	2.7664	5.40	0.0262	5.34	0.0077	6.24	166.88	10.67	1346.51	10.81	155.64	12.48
BHF-02_ap29	49.12	4.65	0.7925	4.13	2.2255	5.14	0.0203	4.72	0.0078	5.30	129.71	9.45	1189.10	10.27	158.31	10.59
BHF-02_ap3	17.24	3.32	0.7772	4.11	6.2898	3.57	0.0581	3.62	0.0182	4.79	363.84	7.24	2017.04	7.15	365.12	9.57
BHF-02_ap30	39.85	2.70	0.8031	3.22			0.0251	2.95	0.0073	3.59	159.69	5.90	0.00		146.74	7.18
BHF-02_ap31	5.74	4.61	0.7931	5.66	19.0513	4.52	0.1754	4.61	0.0134	5.35	1041.55	9.22	3044.42	9.04	270.78	10.70
BHF-02_ap32	41.29	3.11	0.8182	3.79	2.7412	3.03	0.0244	3.43	0.0093	4.94	155.33	98.9	1339.71	90.9	188.18	9.87
BHF-02_ap33	34.94	3.02	0.7805	3.68	3.0990	3.11	0.0286	3.36	0.0059	5.25	181.93	6.72	1432.45	6.21	118.53	10.51
BHF-02_ap4	30.70	11.45	0.8080	3.96	3.6335	7.80	0.0323	7.95	0.0137	6.14	205.02	15.89	1556.90	15.61	275.40	12.29
BHF-02_ap5	35.65	9.50	0.7874	2.57	3.0863	7.21	0.0281	7.02	0.0082	7.72	178.50	14.05	1429.30	14.42	166.22	15.45
BHF-02_ap6																
BHF-02_ap7	11.74	10.26	0.7810	2.27	9.1891	10.52	0.0841	10.10	0.0188	12.01	520.84	20.20	2357.03	21.04	378.37	24.03
BHF-02_ap8	32.22	3.50	0.8065	4.37	3.4732	3.73	0.0310	3.50	0.0157	4.06	196.64	7.00	1521.16	7.45	316.72	8.11
BHF-02_ap9	51.23	8.11	0.7978	6.30	2.2051	7.53	0.0198	7.14	0.0105	7.49	126.40	14.28	1182.67	15.05	211.93	14.99
BHF-03_ap10	9.43	2.18	0.7916	2.21	11.6531	2.19	0.1060	2.19	0.2855	2.77	649.19	4.39	2576.94	4.38	5091.23	5.54
BHF-03_ap11	21.02	3.82	0.7869	5.10	5.1012	4.57	0.0471	4.12	0.0370	5.50	296.96	8.24	1836.30	9.13	737.05	11.00
BHF-03_ap13	26.14	4.97	0.8168	4.33	4.3018	5.64	0.0382	4.58	0.0253	5.06	241.95	9.16	1693.71	11.28	99.909	10.11
BHF-03_ap14	23.67	5.40	0.8198	5.02	4.7272	5.44	0.0422	5.10	0.0739	5.98	266.26	10.21	1772.08	10.87	1444.88	11.96
BHF-03_ap15	81.55	35.99	0.7431	17.57	1.2232	12.59	0.0120	12.49	0.0139	15.27	76.89	24.99	811.25	25.19	279.42	30.54
BHF-03_ap16	26.05	7.32	0.8142	4.59	4.2884	5.28	0.0382	5.91	0.0495	4.93	241.96	11.81	1691.13	10.56	979.45	9.86
BHF-03_ap17	4.23	8.91	0.7368	13.49	24.1150	06.9	0.2376	5.35	0.5369	12.75	1374.24	10.70	3273.05	13.81	8710.80	25.50
BHF-03_ap18	26.67	2.72	0.8129	3.16	4.2195	2.85	0.0376	2.98	0.1580	3.65	237.78	5.96	1677.83	5.70	2973.33	7.30
BHF-03_ap19	8.82	3.64	0.8189	4.39	12.9014	3.98	0.1137	3.95	0.0628	6.63	694.27	7.90	2672.48	7.95	1233.99	13.27
BHF-03_ap2	136.57	7.22	0.8024	7.26	0.8216	7.58	0.0074	7.22	0.0101	7.79	47.41	14.44	608.92	15.16	204.05	15.58
BHF-03_ap20	9.48	4.32	0.8049	1.90	11.8145	3.94	0.1056	4.37	0.1942	3.94	647.18	8.75	2589.81	7.89	3597.83	7.87
BHF-03_ap21	17.82	3.21	0.8201	3.63	6.2851	4.55	0.0564	3.51	0.0985	4.01	353.60	7.03	2016.38	60.6	1904.39	8.03
BHF-03_ap22	11.32	2.29	0.8177	2.38	10.0435	2.31	0.0883	2.31	0.0815	2.67	545.20	4.63	2438.79	4.61	1589.01	5.35
BHF-03_ap23	38.79	8.26	0.7113	5.92	2.5486	10.34	0.0263	8.30	0.0606	5.89	167.12	16.60	1286.03	20.67	1191.89	11.79
BHF-03_ap24	4.11	8.61	0.8146	1.28	27.3739	8.63	0.2433	8.45	0.5504	8.49	1403.65	16.90	3396.93	17.27	8888.54	16.98
BHF-03_ap3	20.18	10.94	0.7391	15.23	5.0803	11.17	0.0496	11.09	0.0621	12.49	312.03	22.19	1832.83	22.33	1221.57	24.98
BHF-03_ap4	58.47	7.50	0.7009	5.39	1.6672	6.84	0.0172	6.92	0.0608	9.07	109.90	13.85	996.10	13.67	1196.31	18.14
BHF-03_ap5	213.17	3.27	0.7220	4.20	0.4675	3.64	0.0047	3.27	0.0047	4.43	30.16	6.54	389.46	7.29	94.92	8.86
BHF-03_ap6	10.30	2.87	0.8254	2.76	11.2116	2.92	0.0980	2.92	0.1667	4.30	602.75	5.85	2540.88	5.83	3125.68	8.59

Appendix B: Eastern Sunda arc geochronology data - apatite

238U/206Pb	3Pb 120	207Pb/206Pb		207Pb/235U	100/	206Pb/238U	400/	208Pb/232Th	100/	206Pb/238U	70-0	207Pb/235U (calc)	70.00	208Pb/232Th	7000
ratio				(calc) ratio	0.50	ratio	0/8	ratio	02.50	Age (Ma)	0/87	Age (Ma)	0/ <b>\$7</b>	Age (Ma)	72.0
4			4.94	2.4442	3.78	0.0226	3.86	0.0181	4.55	144.15	7.71	1255.72	7.56	363.10	9.10
25			8.49	4.1412	7.53	0.0386	6.55	0.0152	7.51	243.87	13.11	1662.48	15.07	304.90	15.01
4			11.11	6.8709	8.30	0.0684	8.21	0.0074	10.11	426.74	16.42	2094.91	16.60	148.55	20.23
_			7.19	76.5267	8.78	0.7431	7.64	3.1280	12.04	3581.94	15.28	4417.55	17.55	28738.55	24.09
0			8.87	252.8399	10.89	1.9378	11.21	1.8769	11.71	6947.01	22.42	5621.88	21.79	21419.75	23.43
0		16.85 0.8208	14.49	340.2805	19.25	3.0394	16.30	1.5233	16.07	8999.75	32.60	5922.43	38.50	18761.51	32.14
0	0.40 11.		9.85	249.8617	13.92	2.5138	14.51	4.3486	17.08	8101.14	29.03	5609.89	27.84	33989.31	34.16
က			7.80	36.5551	69.9	0.3212	6.81	0.5954	8.66	1795.43	13.62	3681.58	13.38	9468.72	17.32
0	0.01 5.		0.58	8154.4460	4.60	71.4780	4.67	95.9170	7.10	27611.73	9.32	9144.99	9.21	92711.43	14.21
0			6.46	167.5512	7.74	1.4937	8.66	4.7981	73.57	5890.49	17.33	5206.11	15.48	35625.04	147.15
0			9.33	147.8462	9.01	1.2717	10.91	0.5139	9.23	5289.32	21.82	5079.87	18.03	8405.70	18.47
0	0.01 3.	3.25 0.8247	0.45	13105.0669	3.07	114.8156	3.05	207.4982	4.21	30633.26	6.11	9626.68	6.14	108239.67	8.42
0	.23 3.	.51 0.8422	0.99	505.4005	3.65	4.3899	3.90	15.7213	3.77	10859.09	7.80	6323.12	7.29	57093.81	7.54
0		1.48 0.8229	1.22	127.7462	1.76	1.1276	1.50	3.7553	3.17	4866.94	3.01	4932.57	3.52	31605.98	6.35
25			4.09	4.2788	7.58	0.0409	7.94	0.4641	9.19	258.30	15.88	1689.29	15.17	7727.16	18.38
8	3.10 2.	2.81 0.8145	2.85	36.3730	3.16	0.3206	3.06	0.2202	3.80	1792.59	6.12	3676.65	6.32	4033.80	7.59
4	4.16 14.	14.27 0.8224	5.57	26.8600	4.60	0.2370	4.74	0.0767	5.47	1371.14	9.47	3378.38	9.19	1498.13	10.95
25		8.37 0.7891	11.10	4.2925	8.06	0.0388	8.82	0.0271	9.00	245.55	17.64	1691.92	16.12	542.93	17.99
7		5.75 0.8058	7.01	14.6353	5.54	0.1308	5.03	0.0504	5.55	792.70	10.06	2791.83	11.07	995.95	11.09
3			2.90	34.3965	2.79	0.3016	2.81	0.1980	3.18	1698.99	5.62	3621.48	5.59	3662.21	6.35
ю	3.27 4.		3.98	33.0865	4.69	0.3060	4.89	0.1067	6.37	1721.03	9.77	3583.19	9.38	2054.78	12.74
80			10.38	12.1466	7.83	0.1116	8.30	0.0404	8.39	681.92	16.60	2615.79	15.65	803.23	16.77
7			2.06	14.6065	6.18	0.1320	5.74	0.0518	6.30	799.04	11.48	2789.95	12.37	1023.80	12.61
2			2.72	19.9226	2.54	0.1797	2.72	0.1030	2.94	1065.35	5.43	3087.61	5.09	1987.80	5.88
4			7.28	22.7551	5.89	0.2155	5.93	0.0310	6.73	1258.21	11.85	3216.53	11.79	618.69	13.46
2	2.67 2.		3.05	41.4980	2.93	0.3774	2.97	0.2480	3.33	2063.93	5.93	3807.14	2.87	4491.37	9.67
ဇ			3.41	37.2410	3.15	0.3221	3.25	0.2066	3.56	1800.01	6.51	363636	6.31	3807.53	7.11
12			13.61			0.0801	66.6	0.0279	12.65	496.94	19.99	0.00		558.44	25.29
3			4.69	31.4343	5.62	0.2858	4.96	0.1250	5.29	1620.39	9.92	3532.74	11.23	2387.52	10.57
9			2.62	30.0927	2.53	0.2589	2.83	0.1600	3.03	1484.07	5.65	3489.84	90.9	3008.40	6.07
10			7.34	10.5801	5.59	0.0958	5.73	0.0336	99.9	589.98	11.47	2486.96	11.18	670.84	13.33
2	2.90 2.		2.79	39.4348	2.78	0.3461	3.01	0.2308	3.09	1915.98	6.02	3756.60	5.55	4209.24	6.18
27			12.83	3.1754	9.78	0.0373	8.94	0.0162	12.93	235.77	17.87	1451.19	19.55	324.92	25.86
0		5.63 0.8221	7.18	11.6042	5.47	0.1026	2.67	0.0310	6.46	629.69	1.3	2573.01	10.93	618.44	12.92
4			4.06	23.6669	5.05	0.2137	4.85	0.0694	5.09	1248.51	9.70	3254.77	10.10	1361.00	10.17
2			3.54	54.3929	3.39	0.4865	3.76	0.0304	3.59	2555.58	7.51	4076.21	6.77	26.709	7.17
2	2.27 2.		2.58	50.2117	2.76	0.4427	2.95	0.0495	2.52	2362.58	2.90	3996.52	5.52	978.38	5.04
2			2.76	21.7567	2.57	0.1951	2.79	0.0241	3.03	1148.97	5.58	3172.93	5.15	482.96	90.9
_			5.14	86.5940	7.42	0.7561	7.04	0.0930	5.30	3629.76	14.08	4541.52	14.84	1802.56	10.61
0			3.14	145.9477	3.77	1.2468	3.83	0.1456	3.70	5218.36	7.65	5066.84	7.54	2754.91	7.41
0		2.67 0.8343	1.28	349.6948	2.72	3.0459	2.45	0.7895	4.22	9010.22	4.91	5950.06	5.43	11795.53	8.43
23			4.20	4.9475	3.56	0.0436	3.87	0.0302	4.91	275.36	7.73	1810.41	7.13	603.32	9.82
_		3.70 0.8246	3.31	59.3764	3.81	0.5165	3.82	0.0704	3.03	2684.24	7.64	4163.68	7.61	1379.72	6.05
æ		5.45 0.7826	3.05	3.1524	5.51	0.0292	5.66	0.0196	3.47	185.72	11.32	1445.58	11.02	393.47	6.94
2	2.54 4.		1.68	43.8627	3.98	0.3993	4.35	0.2248	3.57	2165.89	8.70	3862.12	7.95	4110.81	7.13
0		3.08 0.8225	2.21	201.1875	3.10	1.7473	3.08	0.2236	2.97	6514.83	6.17	5390.87	6.20	4090.79	5.94
2	.36 2.	.49 0.8314	2.58	21.3669	2.46	0.1869	5.69	0.0580	3.00	1104.33	5.39	3155.39	4.93	1143.19	5.99
0	.56 4.	4.21 0.8301	2.25	205.1586	4.60	1.7908	4.42	0.0415	5.64	6616.21	8.85	5410.62	9.21	824.43	11.27

Appendix B: Eastern Sunda arc geochronology data - apatite

Appendix B: Eastern Sunda arc geochronology data - apatite

Age (Ma) 2s%	2923.75 10.34	2749.43 8.41	7 00		_	-	-	· · ·				<b>+ + + +</b>							<u> </u>				
8.62		6.94 274	6.06 526	7.84 279															Φ.	₩ #	ø <del>1.</del> ø	∞ <del>1.</del> ∞ 4	8 ± 8 4 8
3052.20			3710.06	2996.30	2961.85		3590.14		-	-	7	4	4	4	+	+	-	4	+	-	-	-	-
8.68	9	7.09	6.80	7.94	7.29		8.21	8.21	8.21 8.53 12.25	8.21 8.53 12.25 6.77	8.53 12.25 6.77 6.71	8.21 8.53 12.25 6.77 6.71	8.23 8.53 12.25 6.77 6.71 6.67	8.23 12.25 6.77 6.77 6.67 9.16	8.23 12.25 6.77 6.77 6.67 9.16 7.27	8.53 12.25 6.77 6.77 6.67 9.16 7.27 7.79	8.23 8.53 112.25 6.77 6.67 7.27 7.79 8.47 7.79	8.21 12.25 12.25 6.77 6.71 6.67 7.27 7.27 7.29 8.47 7.95	8.21 12.25 12.25 6.77 6.67 7.27 7.27 7.79 8.47 7.03 9.69	8.21 12.25 6.77 6.77 6.77 7.27 7.79 8.47 7.79 9.69 9.69	8.21 12.25 6.77 6.77 6.67 7.27 7.79 8.47 7.95 7.03 7.03 7.86 6.34 6.34	8.21 12.25 6.77 6.77 6.77 7.27 7.27 7.39 7.03 7.03 7.03 7.03 7.03 7.03 6.34 6.34	8.21 12.25 6.77 6.77 6.67 7.27 7.27 7.25 7.35 7.36 7.36 7.36 7.36 7.36 7.37 7.35 7.35 7.35 7.37 7.35 7.37 7.35 7.37 7.35
	1072.59	1064.12	1884.11	967.40	915.93		1652.14	1652.14 1052.60	1652.14 1052.60 1254.48	1652.14 1052.60 1254.48 1178.59	1652.14 1052.60 1254.48 1178.59 1359.83	1652.14 1052.60 1254.48 1178.59 1359.83	1652.14 1052.60 1254.48 1178.59 1359.83 1543.72	1652.14 1052.60 1254.48 1178.59 1359.83 1543.72 1084.24	1652.14 1052.60 1254.48 1178.59 1359.83 1543.72 1084.24 1457.49	1652.14 1052.60 1254.48 1178.59 1359.83 1543.72 1084.24 1457.49 1313.43	1652.14 1052.60 1254.48 1178.59 1359.83 1543.72 1084.24 1457.49 1313.43 906.60 880.15	1652.14 1062.60 1254.48 1178.59 1359.83 1643.72 1094.24 1457.49 1313.43 906.60 880.15	1652.14 1062.60 1254.48 1178.59 1359.83 1543.72 1084.24 1457.49 1313.43 906.60 880.15 1329.78	1652.14 1052.60 1254.48 1178.59 1359.83 1457.49 1313.43 906.60 880.15 1323.53 28325.39	1652.14 1052.60 1254.48 1178.59 1359.83 164.24 1457.49 1313.43 906.60 880.15 1329.78 29347.24 20456.24	1652.14 1052.60 1254.48 1178.59 1359.83 1457.49 1457.49 1339.78 29325.39 26325.39 26345.24 2645.24	1652.14 1052.60 1254.48 1178.59 1563.72 1004.24 1457.49 1313.43 906.60 880.15 1329.78 228325.39 22837.24 2045.
	5.17	4.21	3.91	5.03	4.14	9 10	4.30	5.46	4.30 5.46 7.11	4.56 5.46 7.11 3.94	5.46 5.46 7.11 4.11	5.46 7.11 7.11 7.11 8.94 3.94	5.46 5.46 7.11 7.11 8.39 9.94 5.51	4.30 7.11 3.94 4.11 3.94 5.51	4,00 5,46 3,94 1,11 4,07 1,00 1,00 1,00 1,00 1,00 1,00 1,00 1	5.46 7.11 3.94 1.11 8.55 7.04 7.74 7.80	0.54 6 11.7 11.4 10.8 8 10.4 10	5.46 5.46 3.94 4.1.1 5.51 4.07 4.00 4.00 4.00 4.00	0.4.6 1.1.7 1.1.4 1.	0.4.6 1.1.7 1.1.4 1.1.4 1.2.6 1.2.7 1.2.6 1.	0.4.6 4.0.8 1.1.7 1.1.4 1.	0 0 4 0 0 0 4 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 4 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
ratio	0.1552	0.1453	0.2969	0.1479	0.1400		0.2490	0.2490	0.2490 0.1424 0.1806	0.2490 0.1424 0.1806 0.1699	0.2490 0.1424 0.1806 0.1699 0.1827	0.2490 0.1424 0.1806 0.1699 0.1827 0.2290	0.2490 0.1424 0.1806 0.1699 0.1827 0.2290 0.1830	0.2490 0.1424 0.1806 0.1699 0.1827 0.2290 0.1830 0.2086	0.2490 0.1424 0.1806 0.1899 0.1827 0.2290 0.1830 0.1937	0.2490 0.1424 0.1806 0.1639 0.220 0.1830 0.2086 0.1937 0.1318	0.2430 0.1424 0.1806 0.1639 0.230 0.1830 0.1830 0.1830 0.1334	0.2490 0.1424 0.1806 0.1839 0.2280 0.1830 0.1937 0.1304	0.2490 0.1424 0.1806 0.1827 0.2290 0.1830 0.1937 0.1318 0.1706 63.9939	0.2490 0.1424 0.1406 0.1639 0.2290 0.2290 0.1330 0.1318 0.1318 0.1304 0.1304 0.1304	0.2490 0.1424 0.1806 0.1827 0.220 0.1830 0.1830 0.1937 0.1318 0.1304 0.1706 63.9939 280.5705 55.4133	0.2490 0.1424 0.1806 0.1827 0.2290 0.1830 0.1937 0.1318 0.1304 0.1304 0.1308 0.	0.2490 0.1424 0.1806 0.1827 0.2290 0.1830 0.1337 0.1318 0.1304 0.1706 63.993 280.5705 5.54133 6.8983 81.5439
	4.34	3.54	3.40	3.97	3.64	,	4.10	4.10	4.10 4.27 6.12	4.10 4.27 6.12 3.39	4.10 4.27 6.12 3.39 3.35	4.10 4.27 6.12 3.39 3.35 3.33	4.10 6.12 3.39 3.35 3.33 4.58	4.10 4.27 6.12 3.39 3.35 3.33 4.58	4.10 4.27 6.12 3.39 3.35 4.58 3.64 3.90	4.10 6.12 3.39 3.35 3.33 4.58 3.90 4.24	4 10 6 112 6 112 9 3 3 8 9 3 3 8 9 4 5 8 9 3 90 9 2 4 9 2 8 9 3 9 9 3 9 9 3 9 9 3 9 9 3 9 9 3 9	6 112 6 112 7 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	4 5 6 1 1 2 2 7 7 7 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	4 7 7 7 7 7 7 7 8 9 9 9 9 9 9 9 9 9 9 9 9	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	4 2 7 7 7 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	2.10 2.39 2.39 2.39 2.39 2.40 2.40 2.40 2.40 2.40 2.40 2.40 2.40
ratio	0.1810	0.1795	0.3395	0.1619	0.1527	0.2921		0.1774	0.1774	0.2148	0.2348 0.2348	0.2148 0.2006 0.2348 0.2706	0.1774 0.2148 0.2006 0.2348 0.2706 0.1832	0.2148 0.2148 0.2006 0.2348 0.2706 0.1832 0.2537	0.2148 0.2148 0.2006 0.2348 0.2706 0.1832 0.2537	0.2174 0.2148 0.2006 0.2348 0.2706 0.1832 0.2537 0.2260 0.1510	0.2748 0.2008 0.2348 0.2708 0.1832 0.2537 0.2537 0.2560 0.1510	0.1774 0.2148 0.2006 0.2348 0.2706 0.1832 0.2537 0.2560 0.1463	0.1774 0.2148 0.2006 0.2348 0.2706 0.1832 0.2837 0.280 0.1463 0.2847	0.2148 0.2148 0.2248 0.2706 0.1832 0.2267 0.1510 0.1510 0.1433 0.2267 0.	0.2148 0.2148 0.2248 0.2706 0.1832 0.2267 0.2267 0.1510 0.1463 0.2597 0.2287 0.	0.2148 0.2148 0.2248 0.2706 0.1832 0.2287 0.2287 0.1510 0.1463 0.2281 93.5487 58.5685 22.8858 62.0500	0.2148 0.2148 0.2206 0.2348 0.2537 0.2580 0.1510 0.1451 0.2261 0.2261 0.2261 2.2868 2.2868 2.2868 2.2650
	4.31	3.47	3.03	3.92	3.41	4.00		4.09	4.09	4.09 7.12 3.28	4.09 7.12 3.28 3.32	4.09 7.12 3.28 3.32 3.26	4.09 7.12 3.28 3.32 3.26 4.29	4.09 7.12 3.28 3.32 4.29 3.70	4.09 7.12 3.28 3.26 4.29 3.70 3.67	4.09 7.12 3.28 3.32 3.26 4.29 3.70 3.67	4.09 7.12 3.28 3.32 3.26 4.29 3.70 3.67 4.09	4.09 3.28 3.32 3.26 4.29 3.70 4.09 3.84 3.35	4.09 3.28 3.32 3.26 4.29 3.70 3.67 4.09 3.35 4.86	4.09 3.28 3.28 3.32 3.32 4.29 3.67 4.09 3.67 4.86 3.35 3.35	4,09 7,12 3,28 3,28 4,29 4,29 3,67 4,09 3,67 4,09 3,67 4,09 3,68 4,08 3,39 3,21	4 0.9 7 1.12 3 3.28 3 3.26 4 2.29 3 7.70 3 6.77 3 6	7 7 08 3 2 8 3 2 8 3 2 8 3 2 8 3 2 8 3 2 8 3 2 9 2 9 2 9 2 9 2 9 2 9 2 9 2 9 2 9 2
	19.2056	19.9828	37.6230	18.1233	17.4854	33.3208		19.0502	19.0502	19.0502 23.6670 22.5913	19.0502 23.6670 22.5913 25.4802	19.0502 23.6670 22.5913 25.4802 30.5400	19.0502 23.6670 22.5913 25.4802 30.5400 21.2472	19.0502 23.6670 22.5913 25.4802 30.5400 21.2472 28.0580	19.0502 23.6670 22.5913 25.4802 30.5400 21.2472 28.0580 26.9892	19.0502 23.6670 22.5913 25.4802 30.5400 21.2472 28.0580 26.9892 17.3013	19.0502 23.6670 22.5913 25.4802 30.5400 21.2472 28.0580 26.9892 17.3013 16.8561	19.0502 23.6670 22.5913 25.4802 30.5400 21.2472 28.0580 26.9892 17.3013 16.8561 26.0240	19.0502 23.6670 22.5913 25.4802 30.5400 21.2472 28.0580 17.3013 16.8561 26.0240 10807.9706	19.0502 23.6670 22.5913 25.4802 30.5400 21.2472 28.0580 17.3013 16.8561 26.0240 10807.9708 6913.2823	19.0602 23.6870 22.8913 25.4802 21.2472 28.0580 26.982 17.3013 16.8561 26.0240 10.3023 26.0240	19.0502 23.6670 22.8913 25.4802 21.2472 28.0580 26.8982 17.3013 16.8561 26.0240 10897.9706 69823 32.6040 11.3013 26.0240	19.0502 23.6670 22.8613 25.4802 30.5400 21.2472 28.0580 17.3013 16.8561 26.0240 10.897.9706 6913.2823 265.40788 7112.4746 3040.0174
2	5.27	4.11	3.15	4.70	4.11	4.58		4.97	7.34	4.97 7.34 3.80	4.97 7.34 3.80 3.79	4.97 7.34 3.80 3.79 3.67	4.97 7.34 3.80 3.79 3.67 5.20	4.97 7.34 3.80 3.79 3.67 5.20	4.97 7.34 3.80 3.79 3.67 5.20 4.61	4.97 7.34 3.80 3.79 3.67 5.20 4.61 4.35	4.97 7.34 3.80 3.79 5.20 4.61 6.07 4.35	4.97 7.34 3.80 3.67 5.20 4.61 4.35 5.07 4.75	4.97 7.34 3.80 3.79 3.67 5.20 4.35 5.07 4.75 3.87	4.97 7.34 3.80 3.79 3.67 5.20 4.35 5.07 4.75 9.87	4.97 7.34 3.80 3.79 5.20 4.61 4.35 5.07 6.064	7.34 3.80 3.79 3.67 5.20 5.20 4.35 6.77 8.87 9.64 0.64 0.69	4.97 3.80 3.80 3.87 5.20 4.61 4.35 5.07 4.75 6.07 0.08 0.09
ratio	0.7705	0.8088	0.8021	0.8091	0.8296	0.8290		0.7771	0.7771	0.7771 0.7936 0.8177	0.7771 0.7936 0.8177 0.7835	0.7771 0.7936 0.8177 0.7835	0.7771 0.7936 0.8177 0.7835 0.8164	0.7771 0.7936 0.8177 0.7835 0.8164 0.8383	0.7771 0.7936 0.8177 0.7835 0.8164 0.8383 0.7975	0.7771 0.7936 0.8177 0.7835 0.8164 0.8383 0.7975 0.8305	0.7771 0.7936 0.8177 0.7835 0.8164 0.8383 0.8622 0.8305 0.8305	0.7771 0.7936 0.8177 0.7835 0.8164 0.8383 0.8622 0.8305 0.8302	0.7771 0.7936 0.7835 0.8164 0.8383 0.7975 0.8305 0.8305 0.8202 0.8305 0.8202 0.8202 0.8202 0.8202 0.8202	0.7771 0.7936 0.7835 0.8083 0.7975 0.8052 0.8305 0.8305 0.8305 0.8305 0.8305	0.7771 0.7936 0.7936 0.8164 0.8983 0.7975 0.8902 0.8302 0.8473	0.7771 0.7936 0.7835 0.8164 0.8383 0.8925 0.8305 0.8305 0.8309 0.8309 0.8309 0.8414	0.7771 0.7936 0.7935 0.8164 0.8383 0.7875 0.8622 0.8305 0.8305 0.8308 0.8414 0.8394
	4.30	3.55	3.38	3.95	3.51	4.04		4.09	6.11	4.09 6.11 3.35	4.09 6.11 3.35 3.35	4.09 6.11 3.35 3.35 3.32	4.09 6.11 3.35 3.35 4.40	4.09 6.11 3.35 3.35 3.32 4.40 3.31	4.09 6.11 3.35 3.32 4.40 3.31 3.31	4.09 6.11 3.35 3.32 3.32 4.40 3.31 4.20	4.09 6.11 6.11 3.35 3.32 3.32 4.40 3.31 4.20 3.99	4.09 6.11 3.35 3.32 3.32 3.31 4.40 3.83 3.83 3.99 3.99	4.09 6.11 3.35 3.32 3.32 3.31 4.40 3.83 3.83 3.99 3.44 8.83	4.09 6.11 6.11 7.33 7.33 7.33 7.33 7.39 7.44 7.41 7.41 7.41 7.41 7.41 7.41 7.41	4 00 6 11 6 11 8 335 8 332 8 4 40 8 20 8 20 9 3 44 4 48 8 4 11 8 4 11 8 4 11 8 4 11 8 3 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	4.09 4.10 3.35 3.35 3.35 4.40 3.31 4.20 3.44 4.20 3.44 4.11 4.11 3.67 3.44 4.11	4 108
200	5.51	5.58	2.93	6.16	99:9	3.45		2.60	5.60	5.60 4.66 4.99	5.60 4.66 4.99 4.27	5.60 4.66 4.99 4.27 3.70	5.60 4.66 4.39 4.27 3.70 5.46	5.60 4.66 4.99 4.27 3.70 5.46 3.93	5.60 4.66 4.99 3.70 5.46 3.93 4.44	5 60 4 .96 4 .99 3 .70 5 .46 5 .46 6 .64	5 60 4 .06 4 .09 3 .70 5 .46 5 .44 6 .64 6 .63	5 60 4 4 98 4 27 3 70 5 46 6 44 6 83 6 83	5.60 4.66 4.27 3.70 5.46 6.83 6.83 0.01	5 60 6 4 4 9 9 9 4 7 27 7 27 7 5 8 6 6 8 9 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9	5 60 4 4 8 6 4 27 3 .70 5 .64 6 .64 6 .64 6 .63 0 .00 0 .00	5.60 4.49 9.77 5.46 5.46 6.64 6.64 6.63 6.03 6.03 6.03 6.03 6.04 6.04 6.03 6.03 6.03 6.03 6.03 6.03 6.03 6.03	5 66 6 4 4 9 8 8 4 4 9 8 9 9 9 9 9 9 9 9 9 9 9
Analysis ID	_B030_ap1	LB030_ap10	LB030_ap11	_B030_ap12	_B030_ap13	LB030_ap14		LB030_ap15	LB030_ap15 LB030_ap16	_B030_ap15 _B030_ap16 _B030_ap17	LB030_ap15 LB030_ap16 LB030_ap17 LB030_ap2	LB030_ap15 LB030_ap16 LB030_ap17 LB030_ap2 LB030_ap3	LB030_ap15 LB030_ap16 LB030_ap17 LB030_ap2 LB030_ap3 LB030_ap4	LB030_ap15 LB030_ap16 LB030_ap17 LB030_ap2 LB030_ap3 LB030_ap4	LB030_ap15 LB030_ap16 LB030_ap17 LB030_ap2 LB030_ap3 LB030_ap4 LB030_ap5	18030_ap15 18030_ap16 18030_ap17 18030_ap2 18030_ap2 18030_ap4 18030_ap5 18030_ap5 18030_ap7	LB030_ap15 LB030_ap16 LB030_ap17 LB030_ap17 LB030_ap2 LB030_ap4 LB030_ap5 LB030_ap6 LB030_ap6	18030_ap15 18030_ap17 18030_ap17 18030_ap2 18030_ap5 18030_ap5 18030_ap6 18030_ap6 18030_ap6 18030_ap6	18030_a115 18030_a176 18030_ap17 18030_ap2 18030_ap2 18030_ap5 18030_ap6 18030_ap6 18030_ap6 18030_ap7 18030_ap7	18030_ap15 18030_ap16 18030_ap17 18030_ap2 18030_ap5 18030_ap6 18030_ap6 18030_ap6 18030_ap7 18030_ap9 18030_ap1 18030_ap2	18030, ap15 18030, ap15 18030, ap17 18030, ap2 18030, ap3 18030, ap4 18030, ap6	18030_a915 18030_a916 18030_a917 18030_a92 18030_a94 18030_a94 18030_a96 18030_a97 18030_a99 18030_a99 18030_a99 18030_a99 18030_a99 18030_a99	18030_a115 18030_a9176 18030_a917 18030_a92 18030_a94 18030_a95 18030_a95 18030_a96 18030_a96 18030_a96 18030_a96 18030_a96 18030_a96 18030_a96 18030_a96 18030_a96 18030_a96 18030_a96 18030_a96

Appendix B: Eastern Sunda arc geochronology data - rutile

1000.20.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.	Analysis ID	238U/206Pb ratio	18%	207Pb/206Pb ratio	18%	207Pb/235U (calc) ratio	1s%	206Pb/238U ratio	18%	206Pb/238U Age (Ma)	2s%	207Pb/235U(calc) Age (Ma)	2s%
0.06         17.5         0.04         0.04         192.26         1.9	_	0.101	1.81	0.839	0.58	1169.516	1.78	9.941	1.65	15423.180	3.30	7173.89	3.55
0.15         2.14         0.24         0.24         0.14 <th< td=""><td>10</td><td>0.085</td><td>1.76</td><td>0.838</td><td>0.44</td><td>1362.507</td><td>1.69</td><td>11.811</td><td>1.57</td><td>16440.326</td><td>3.14</td><td>7328.85</td><td>3.37</td></th<>	10	0.085	1.76	0.838	0.44	1362.507	1.69	11.811	1.57	16440.326	3.14	7328.85	3.37
0.00         (4.0)         (5.0)	LB025_323_rut11	0.135	2.14	0.841	0.35	860.443	2.12	7.421	2.16	13735.388	4.31	6862.58	4.24
0.00         1.8         0.08         0.08         1.00         0.04         0.00	112	0.103	1.90	0.839	0.52	1130.687	1.99	9.827	1.57	15355.491	3.14	7139.63	3.98
0.00         1.5         0.644         0.04         1.7         0.04         1.5         0.04         0	13	0.089	1.86	0.839	0.45	1300.037	2.14	11.310	1.59	16182.881	3.19	7281.23	4.27
0.000         1 ft         0.001         0.002	4	0.166	1.51	0.841	0.70	701.649	1.99	920.9	1.53	12613.567	3.05	6922.69	3.98
0.088         5.1         0.084         0.44         0.156         0.16         <	£ :	0.080	1.66	0.837	0.32	1443.334	1.61	12.522	1.35	16788.698	2.70	7387.32	3.22
0.00         1.00         0.00 <th< td=""><td>9 1</td><td>0.049</td><td>1.97</td><td>0.841</td><td>0.44</td><td>2375.579</td><td>2.10</td><td>20.570</td><td>59.7</td><td>19798.745</td><td>3.25</td><td>7893.00</td><td>4.19</td></th<>	9 1	0.049	1.97	0.841	0.44	2375.579	2.10	20.570	59.7	19798.745	3.25	7893.00	4.19
0.00         1.00         0.00 <th< td=""><td>≥ 9</td><td>0.109</td><td> </td><td>0.834</td><td>0.37</td><td>1056.100</td><td>2.03</td><td>9.104</td><td>08.1</td><td>14948.085</td><td>3.60</td><td>7070.40</td><td>4.06</td></th<>	≥ 9	0.109	 	0.834	0.37	1056.100	2.03	9.104	08.1	14948.085	3.60	7070.40	4.06
0.00         1.7         0.04	<u>~</u>	0.053	1.66	0.836	0.47	2203.127	1.91	19.178	1.47	19368.672	2.95	7816.51	3.83
0.029         1,77         0.029         1,72         0.024         1,72         0.024         1,72         0.024         1,72         0.024         1,72         0.024         1,72         0.024         1,72         0.024         1,72         0.024         1,72         0.024         1,72         0.024         1,72         0.024         1,72         0.024         1,72         0.024         1,72 </td <td>2</td> <td>0.064</td> <td>2.00</td> <td>0.843</td> <td>0.45</td> <td>1858.846</td> <td>1.76</td> <td>15.678</td> <td>1.62</td> <td>18140.796</td> <td>3.25</td> <td>7644.06</td> <td>3.51</td>	2	0.064	2.00	0.843	0.45	1858.846	1.76	15.678	1.62	18140.796	3.25	7644.06	3.51
0.007         1,7         0.882         0.53         1442,203         2.65         17,00         1,84         1,940         1,944         1	8	0.092	1.87	0.838	0.43	1258.414	1.78	10.881	1.83	15954.511	3.65	7248.21	3.57
0.00         14         0.88         0.29         1744.50         144         4.428         1.28         1.784.414         2.97         1779.14           0.00         1.45         0.88         0.29         1744.50         1.44         1.24         1.84         1.844.44         2.97         1.797.24           0.01         1.2         0.88         0.28         1.745.24         1.84         1.849.44         3.17         0.000           0.11         2.07         0.88         0.28         0.28         1.84         1.84         1.849.43         3.17         0.000           0.11         2.07         0.88         0.28         0.28         0.28         1.84         0.000         3.14         0.000           0.11         2.07         0.88         0.29         0.8448         1.57         0.15         1.44         0.000         3.14         0.000           0.28         0.29         0.24         0.24         0.17         2.44         0.000         3.14         0.000         0.000         0.000         0.000         0.000         0.000         0.000         0.000         0.000         0.000         0.000         0.000         0.000         0.000         0.000 </td <td>4</td> <td>0.059</td> <td>1.77</td> <td>0.832</td> <td>0.53</td> <td>1942.029</td> <td>2.05</td> <td>17.052</td> <td><del>1</del>.62</td> <td>18650.942</td> <td>3.29</td> <td>7688.48</td> <td>4.10</td>	4	0.059	1.77	0.832	0.53	1942.029	2.05	17.052	<del>1</del> .62	18650.942	3.29	7688.48	4.10
0.10         1.0         0.0         110.4         0.0         1.0<	S.	290.0	1.45	0.838	0.29	1744.570	1.44	14.928	1.28	17844.154	2.57	7579.67	2.88
0.15         2.07         0.84         0.86         776.11         1.66         6.22         1.57         1.96         3.74         6.03         6.06         776.11         1.00	9	0.103	1.81	0.839	0.45	1150.480	1.82	9.758	1.64	15314.083	3.27	7157.24	3.64
0.11         0.05 <th< td=""><td>7</td><td>0.155</td><td>2.07</td><td>0.847</td><td>0.69</td><td>776.137</td><td>1.96</td><td>6.528</td><td>1.87</td><td>13013.006</td><td>3.74</td><td>6758.00</td><td>3.93</td></th<>	7	0.155	2.07	0.847	0.69	776.137	1.96	6.528	1.87	13013.006	3.74	6758.00	3.93
0111         2 M2         0.85         0.35         0.95 <th< td=""><td>œ</td><td>0.137</td><td>1.62</td><td>0.839</td><td>0.53</td><td>862.962</td><td>1.64</td><td>7.322</td><td>1.53</td><td>13659.327</td><td>3.05</td><td>6865.54</td><td>3.27</td></th<>	œ	0.137	1.62	0.839	0.53	862.962	1.64	7.322	1.53	13659.327	3.05	6865.54	3.27
0.11         2.66         0.63         1.35         10.64-78         2.66         1.56         1.56         1.56         1.56         1.56         1.57         1.58         1.56         1.57         1.59         1.56         1.59         1.59         1.50	LB025_323_rut9	0.119	2.07	0.838	0.35	962.962	1.91	8.389	1.97	14436.741	3.93	6979.91	3.82
1.81         1.82         0.86         0.84         1.67         0.72         1.54         652,000         0.32         4616,73         61.0         64.68         1.57         0.72         3.46         652,000         0.24         0.24         0.24         0.24         0.24         0.24         0.24         0.24         0.24         0.24         0.24         0.25         0.24         0.24         0.24         0.26         0.25	LB032_326_rut1	0.111	2.68	0.831	1.35	1066.475	2.66	9.149	2.65	14938.588	5.31	7080.32	5.32
0.34         3.38         0.04         3.49         0.44         0.45         0.74         3.49         0.854-000         0.02         0.038-1         0.03         0.03         7.         0.03	LB032_326_rut10	1.381	1.62	0.823	06:0	84.486	1.57	0.727	1.51	3523.006	3.03	4516.78	3.14
0.37         2.10         0.844         0.70         37.79         2.05         4.64         4.70         6.05           1.376         2.10         0.846         1.75         2.64         1.02         2.05         48.4777         4.10         6.02         48.4777         4.10         6.02         48.4777         4.10         6.02         48.4777         4.10         6.02         48.4777         4.10         6.02         48.4777         4.10         6.02         4.02         48.67         6.02         48.67         4.10         6.02         48.67         4.10         6.02         4.02         48.69         7.10         48.60         7.02         48.60         7.02         4.02	LB032_326_rut11	0.361	3.38	0.836	0.67	328.130	3.45	2.770	3.46	8554.608	6.92	5885.62	06.90
0.944         7.7         0.84         1.2         11.8847         2.4         1.05         2.9         45.4         4.5         4.89         4.89         4.89         1.0         4.89         1.0         1.0         4.89         2.4         1.0         2.2         3.7         4.89         4.89         4.89         3.7         4.89 <td>LB032_326_rut12</td> <td>0.317</td> <td>2.10</td> <td>0.845</td> <td>0.70</td> <td>377.960</td> <td>2.05</td> <td>3.180</td> <td>2.05</td> <td>9220.176</td> <td>4.10</td> <td>6028.77</td> <td>4.11</td>	LB032_326_rut12	0.317	2.10	0.845	0.70	377.960	2.05	3.180	2.05	9220.176	4.10	6028.77	4.11
1378         344         0 kg 2         15         6 kg 2         3 kg 2	LB032_326_rut13	0.964	2.70	0.830	1.27	118.897	2.44	1.052	2.28	4634.773	4.56	4860.26	4.89
1239         3.5         0.840         0.78         379.468         3.73         3.82         3.67         308.00         7.75         600.00           0.250         1.56         0.84         0.78         3.69         3.99         3.75         6.05         3.75         6.05         3.75         6.05         3.75         6.05         3.75         6.05         3.75         6.05         3.89         3.75         3.89         0.05         3.89         3.75         3.89         4.96         1.96         3.89         3.75         4.95         5.05         5.05         5.20	4	1.378	3.44	0.832	1.15	85.236	2.66	0.735	3.09	3552.577	6.19	4525.65	5.31
1229         288         0         3418         288         0         388         0         638         4026           1229         1289         288         0         484         217         148         188         189         319         3888016         6.83         4026           0.204         1.94         0.843         0.14         184         182         4945         189         1491         330         6475         528         56758         56758         56758         328         647532         578         56758 <th< td=""><td>15</td><td>0.319</td><td>3.75</td><td>0.840</td><td>0.76</td><td>379.436</td><td>3.73</td><td>3.222</td><td>3.87</td><td>9285.283</td><td>7.75</td><td>6032.71</td><td>7.47</td></th<>	15	0.319	3.75	0.840	0.76	379.436	3.73	3.222	3.87	9285.283	7.75	6032.71	7.47
0 200         189         0.884         1.89 <t< td=""><td>17</td><td>1.229</td><td>2.96</td><td>0.834</td><td>2.17</td><td>94.108</td><td>2.88</td><td>0.828</td><td>3.19</td><td>3888.016</td><td>6.38</td><td>4625.08</td><td>5.75</td></t<>	17	1.229	2.96	0.834	2.17	94.108	2.88	0.828	3.19	3888.016	6.38	4625.08	5.75
0.204         1.94         0.981         1.14         952277         1.64	8	0.670	1.99	0.835	0.99	176.677	1.92	1.496	1.96	5895.957	3.92	5259.65	3.83
0.426         1.8         0.449         3.7         7.65         3.041         6.65         9002061         1.3         6607.75           0.454         1.8         0.849         3.4         53.7         7.65         2.04         665         593.026         2.51         667.75           0.782         2.1         0.822         1.64         104.43         2.61         1.29         2.13         623.022         2.51         666.77         3.7         4.8         4.7         4.7         4.7	6	0.204	<del>2</del> .	0.841	1.14	587.287	1.83	4.945	1.68	11491.302	3.35	6475.32	3.66
0.444         1.38         0.644         1.38         0.644         1.38         0.644         1.38         0.644         1.38         0.644         1.38         0.644         1.38         0.644         1.38         0.644         1.38         0.644         1.38         0.644         2.14         0.7431         2.61         0.223         2.43         3.43         0.6617         0.667         0.67         1.408         2.43         6.243         4.73         6.67         0.67         1.408         2.24         2.43         4.76         0.692         0.72         4.74         0.692         0.72         4.74         0.692         0.73         4.74         4.76         4.74         4.76         4.74         4.76         4.74         4.76         4.74         4.76         4.74         4.76         4.74         4.76         4.74         4.76         4.74         4.76         4.74         4.76         4.74         4.76         4.74         4.76         4.74         4.76         4.74         4.76         4.74         4.76         4.74         4.76         4.74         4.74         4.74         4.74         4.74         4.74         4.74         4.74         4.74         4.74         4.74 <t< td=""><td><b>~</b></td><td>0.332</td><td>6.24</td><td>0.909</td><td>3.49</td><td>377.357</td><td>7.65</td><td>3.041</td><td>6.65</td><td>9002.061</td><td>13.30</td><td>6027.15</td><td>15.29</td></t<>	<b>~</b>	0.332	6.24	0.909	3.49	377.357	7.65	3.041	6.65	9002.061	13.30	6027.15	15.29
0.022         2.18         0.822         1.64         143816         2.19         1.291         2.16         554,822.3         4.33         508,64           0.072         2.41         0.82         1.44         107,431         2.1         1.409         2.4         566,825         4.89         500.00           0.072         2.43         0.82         0.82         560,277         2.5         4.63         2.4         4.698         4.89         520.00           0.072         2.43         0.80         0.82         0.14         2.7         4.698         4.89         520.00           2.252         3.14         0.80         2.15         2.27         4.09         5.24         4.79         4.79         5.20           1.252         3.24         0.80         2.15         8.0         4.49         5.99         2.77         4.79 <td>~</td> <td>0.454</td> <td>1.38</td> <td>0.843</td> <td>0.91</td> <td>263.006</td> <td>1.52</td> <td>2.216</td> <td>1.26</td> <td>7530.262</td> <td>2.51</td> <td>5661.75</td> <td>3.03</td>	~	0.454	1.38	0.843	0.91	263.006	1.52	2.216	1.26	7530.262	2.51	5661.75	3.03
1,088         2,31         0,823         1,44         10/441         2,61         0,828         2,23         447         4778,20           0,772         2,44         0,820         0,820         2,1         1,046         2,4         568,825         4,47         4778,80           0,777         2,84         0,830         0,82         50,277         2,59         4,638         2,44         568,825         4,89         500,75           1,090         2,40         0,830         0,82         1,16         2,7         1,105         2,4         479,888         4,89         500,75           1,626         2,40         0,830         0,82         2,17         4,00         0,46         3,99         4,79         4,99         500,75           1,626         0,780         0,78         5,7         4,00         0,069         3,92         7,17         4,00         1,49         3,92         7,85         1,40         1,40         1,41         1,41         1,43         1,43         1,43         1,43         1,43         1,43         1,43         1,43         1,43         1,43         1,43         1,43         1,43         1,43         1,43         1,43         1,43 <td< td=""><td></td><td>0.782</td><td>2.18</td><td>0.822</td><td>1.64</td><td>148.816</td><td>2.19</td><td>1.291</td><td>2.16</td><td>5343.823</td><td>4.33</td><td>5086.47</td><td>4.39</td></td<>		0.782	2.18	0.822	1.64	148.816	2.19	1.291	2.16	5343.823	4.33	5086.47	4.39
0.772         2.41         0.837         0.866         6.21         1.409         2.44         5668.825         4.89         5200.40           0.277         2.58         0.82         1.66 60         2.7         1.408         2.47         4.898         4.89         5200.40           0.286         2.49         0.880         2.49         1.68         2.47         4.988         4.59         4.99         4.99         4.99         4.99         4.99         4.99         4.99         4.99         4.99         4.99         4.99         4.99         4.99         4.79         4.98         4.99         4.99         4.99         4.79         4.99         4.99         4.99         4.79         4.99         4.99         4.79         4.99         4.99         4.79         4.99         4.99         4.79         4.99         4.79         4.99         4.99         4.79         4.99         4.79         4.99         4.79         4.99         4.79         4.79         4.99         4.79         4.79         4.99         4.79         4.79         4.99         4.79         4.79         4.99         4.79         4.79         4.79         4.79         4.79         4.79         4.79         4.79<	ıc	1.088	2.31	0.823	4.	107.431	2.61	0.929	2.23	4234.212	4.47	4758.20	5.22
0.247         2.58         0.830         0.840	n n	0.712	2.41	0.837	0.80	166.606	2.21	1.409	2.44	5668.825	4.89	5200.40	4.42
0.000         2.40         0.000         2.41         0.000         4.45         0.446         0.		0.217	2.58	0.830	0.82	540.277	2.59	4.638	2.60	11148.974	5.27	6390.75	5.79
2.222         3.14         0.830         2.15         52.170         4.00         0.446         3.59         2377.282         7.17         4048.63           1.222         3.14         0.830         2.15         4.00         0.049         5.01         428.285         1.02         244.64           1.722         4.03         0.75         5.74         6.143         5.05         0.089         3.92         3.82         7.85         1.485         1.485           3.4642         4.10         0.756         5.89         3.21         4.39         0.029         4.79         183.990         9.58         1412.88           2.5619         3.35         0.812         3.49         4.437         3.42         0.039         3.66         5.46         0.73         1412.88         1412.88           4.677         3.5         0.812         2.48         6.20         4.79         163         7.33         1419.86         1419.88         1412.88         1412.88         1412.88         1412.88         1412.88         1412.88         1412.88         1412.88         1412.88         1412.88         1412.88         1412.88         1412.88         1412.88         1412.88         1412.88         1412.88 <td< td=""><td>ю (</td><td>606.0</td><td>7.40</td><td>0.862</td><td>0.1</td><td>135.124</td><td>77.7</td><td>colr</td><td>2.47</td><td>4798.888</td><td>4.93</td><td>4989.15</td><td>4.03</td></td<>	ю (	606.0	7.40	0.862	0.1	135.124	77.7	colr	2.47	4798.888	4.93	4989.15	4.03
14,000         4,30         0,702         3,70         4,20         0,000         3,00         4,20         0,000         3,00         4,00         1,700	D 7	7.252	3.14	0.830	2.15	52.170	4.00	0.446	3.59	23/1/292	/L./	4034.63	8.07
1,726         4,00         0.76         0.76         0.14         0.76 <t< td=""><td>- 5</td><td>14.000</td><td>06.4</td><td>0.762</td><td>0.70</td><td>7.290</td><td>4.00</td><td>690.0</td><td>0.0</td><td>420.203</td><td>7 05</td><td>Z 140.04</td><td>9. 5</td></t<>	- 5	14.000	06.4	0.762	0.70	7.290	4.00	690.0	0.0	420.203	7 05	Z 140.04	9. 5
5,10         3,10         3,10         4,10 <th< td=""><td>2 5</td><td>34 642</td><td>5.5</td><td>0.756</td><td>- 60 - 10</td><td>6-1-0</td><td>3.03</td><td>0.036</td><td>3.92</td><td>183 000</td><td> o</td><td>1412 88</td><td>0.10</td></th<>	2 5	34 642	5.5	0.756	- 60 - 10	6-1-0	3.03	0.036	3.92	183 000	o	1412 88	0.10
40 67 2         8.7         9.0         9.0         9.0         9.7         9.7         9.0	- 5	25.042	- K	0.100	3.49	0.021	3.42	0.029	3.66	246.400	7.33	1719 36	9 6
16.70         367         6620         4.38         0.059         3.97         372.111         7.94         2002.03           51.090         11.60         0.510         0.510         0.576         14.30         15.75         0.019         11.63         0.23.27         0.91.49         5.3           16.215         2.37         0.510         2.076         1.430         15.75         0.019         11.63         0.275         0.91.49         5.91         0.91.45         0.91.49         0.91.45         0.91.45         0.91.45         0.91.45         0.91.82         0.827	. E	40.672	8.17	0.715	11.41	2.492	8.35	0.025	8.09	161.933	16.19	1269.65	16.70
51.080         14.60         0.516         0.576         0.430         0.576         0.619         14.63         0.616         0.62         0.63         0.63         0.63         0.645         0.63         0.645         0.63         0.645         0.63         0.645         0.63         0.645<	4	16.707	3.67	0.791	2.48	6.620	4.38	0.059	3.97	372.111	7.94	2062.03	8.76
16.216         2.37         0.812         2.80         0.062         2.63         387.730         5.77         2.18.78           33.840         3.91         0.771         4.59         3.171         6.01         0.64         4.45         188.019         8.91         1450.16	15	51.090	11.60	0.510	20.76	1.430	15.75	0.019	11.63	123.520	23.27	901.49	31.50
33.840         3.91         0.771         4.59         3.171         5.01         0.030         4.45         188.019         8.91         1450.16	16	16.215	2.37	0.812	2.80	7.058	2.80	0.062	2.63	387.730	5.27	2118.78	5.61
35,411         460         0.741         6.29         2.955         469         0.028         4.58         130.561         9.16         1386.02           4,002         1,71         0.836         1,01         29.37         1.99         0.249         1.82         1495.665         3.65         3464.85           4,007         4,007         0.84         29.63         3.23         0.250         3.05         1438.87         6.09         3474.40           1,339         2.68         0.821         0.84         87.804         2.81         0.755         2.53         3864.759         5.07         4555.45           7,105         3,53         0.924         4.20         17,018         3.68         0.141         3.75         860,709         7.50         2935.83	17	33.840	3.91	0.771	4.59	3.171	5.01	0:030	4.45	188.019	8.91	1450.16	10.03
4.032         1.71         0.836         1.01         29.337         1.99         0.249         1.82         1435.665         3.65         3464.85           4.007         3.10         0.840         0.84         29.623         3.23         0.250         3.05         1438.817         6.09         3474.40           1.339         2.66         0.821         0.84         87.804         2.81         0.755         2.53         3624.759         5.07         4555.45           7.105         3.53         0.924         4.20         17.018         3.68         0.141         3.75         850.709         7.50         2935.83	<u>8</u>	35.411	4.60	0.741	6.29	2.955	4.69	0.028	4.58	180.561	9.16	1396.02	9.37
4,007         3,10         0.840         0.84         29,623         3,23         0.250         3,05         1438,817         6.09         3474,40           1,339         2,66         0.821         0.84         87,804         2,81         0,756         2,53         362,4759         5,07         4555,45           7,105         3,53         0,924         4,20         17,018         3,68         0,141         3,75         850,709         7,50         2935,83	19	4.032	1.71	0.836	1.01	29.337	1.99	0.249	1.82	1435.665	3.65	3464.85	3.99
1.339         2.66         0.821         0.84         87.804         2.81         0.755         2.53         362.4759         5.07         4555.45           7.105         3.53         0.924         4.20         17.018         3.68         0.141         3.75         850,709         7.50         2935.83	2	4.007	3.10	0.840	0.84	29.623	3.23	0.250	3.05	1438.817	60.9	3474.40	6.46
7.105         3.53         0.924         4.20         17.018         3.68         0.141         3.75         850.709         7.50         2935.83	20	1.339	2.66	0.821	0.84	87.804	2.81	0.755	2.53	3624.759	2.07	4555.45	5.63
	6	7.105	3.53	0.924	4.20	17.018	3.68	0.141	3.75	850.709	7.50	2935.83	7.35

Appendix B: Eastern Sunda arc geochronology data - rutile

Analysis ID	238U/206Pb ratio	1s%	207Pb/206Pb ratio	1s%	207Pb/235U (calc) ratio	1s%	206Pb/238U ratio	18%	206Pb/238U Age (Ma)	2s%	207Pb/235U(calc) Age (Ma)	2s%
LB033_327_rut4	16.589	3.21	0.732	4.69	6.243	3.53	0.061	3.43	379.460	98.9	2010.43	7.06
LB033_327_rut5	13.371	2.89	0.823	1.79	8.482	2.56	0.075	2.63	464.156	5.25	2283.97	5.12
LB033_327_rut6	29.402	5.40	0.754	7.35	3.621	5.71	0.034	6.19	216.844	12.38	1554.11	11.41
LB033_327_rut7	20.073	2.70	0.813	3.30	2.696	2.87	0.050	2.81	317.021	5.61	1930.69	5.74
LB033_327_rut8	8.332	2.77	0.804	1.93	13.470	2.67	0.120	2.39	729.388	4.78	2713.16	5.33
LB033_327_rut9	12.781	3.83	0.830	2.50	9.212	4.06	0.078	3.81	485.363	7.62	2359.28	8.11
LB041_330_rut1	32.831	4.62	0.885	2.57	3.803	6.36	0.031	4.98	198.406	9.97	1593.40	12.72
LB041_330_rut10	303.412	98.9	0.711	99.6	0.333	7.02	0.003	6.91	21.135	13.83	291.87	14.05
LB041_330_rut11	10.658	5.22	0.824	5.40	10.884	4.89	0.094	5.40	577.062	10.81	2513.24	9.77
LB041_330_rut12	52.594	4.73	0.774	4.47	2.087	4.80	0.019	2.67	120.499	11.34	1144.66	9.60
LB041_330_rut13	11.079	1.63	0.825	1.1	10.507	1.85	0.091	1.61	559.160	3.22	2480.55	3.70
LB041_330_rut14	5.639	2.10	0.818	1.32	20.610	2.43	0.178	2.19	1056.834	4.37	3120.45	4.86
LB041_330_rut15	1.976	1.59	0.824	1.36	59.134	1.71	0.511	1.54	2661.700	3.07	4159.60	3.42
LB041_330_rut2	10.903	3.19	0.787	2.04	10.086	3.54	0.094	3.59	578.981	7.18	2442.68	7.09
LB041_330_rut3	317.179	20.83	0.600	30.60	0.256	22.86	0.003	20.21	20.762	40.41	231.80	45.71
LB041_330_rut4	22.877	6.03	962'0	4.11	4.810	5.52	0.044	7.49	274.707	14.99	1786.62	11.05
LB041_330_rut5	136.752	11.04	0.577	14.99	0.601	16.76	00:00	10.35	48.360	20.71	477.84	33.51
LB041_330_rut6	51.733	4.50	0.823	6.30	2.260	5.57	0.020	4.94	124.575	9.88	1199.93	11.15
LB041_330_rut7	85.509	4.37	96.70	5.14	1.320	5.83	0.012	4.67	75.148	9.33	854.60	11.67
LB041_330_rut8	204.043	4.08	0.595	4.71	0.419	4.14	0.005	4.32	32.017	8.64	355.04	8.28
LB041_330_rut9	22.535	3.72	0.810	3.84	4.962	4.03	0.045	3.68	282.964	7.36	1812.84	8.06
LB045_332_rut1	0.554	4.74	0.842	1.51	218.294	4.17	1.840	4.38	6729.754	8.76	5473.34	8.34
LB045_332_rut10	1.127	2.39	0.833	1.21	104.683	2.34	0.894	2.41	4116.084	4.82	4732.14	4.69
LB045_332_rut11	0.688	3.40	0.831	2.52	170.155	3.18	1.488	3.43	5876.916	98.9	5221.68	6.37
LB045_332_rut12	2.060	2.00	0.824	3.64	57.223	6.82	0.492	5.76	2580.470	11.52	4126.80	13.63
LB045_332_rut13	0.519	1.76	0.832	0.64	222.628	1.67	1.924	1.56	6915.728	3.11	5493.21	3.33
LB045_332_rut14	0.579	3.07	0.841	0.69	201.042	3.36	1.756	3.04	6534.507	90.9	5390.14	6.72
LB045_332_rut15	1.904	2.72	0.842	1.07	62.624	2.65	0.528	2.68	2733.253	5.35	4216.87	5.31
LB045_332_rut16	< DL	0.41	70 >	145.48	< DF	119.35	< DF	96.43	< DL	192.86	< DL	238.71
LB045_332_rut17	7.893	14.09	0.736	14.52	14.158	69.6	0.137	13.60	826.320	27.21	2760.35	19.38
LB045_332_rut18	1.192	5.54	0.856	1.56	99.467	4.65	0.831	4.79	3900.899	9.59	4680.74	9.30
LB045_332_rut19	0.423	1.90	0.844	0.91	282.513	2.06	2.390	1.74	7870.020	3.49	5734.13	4.11
LB045_332_rut2	0.473	2.92	0.867	1.46	260.768	2.51	2.128	2.68	7350.952	5.35	5653.10	5.02
LB045_332_rut3	1.299	2.92	0.846	1.51	92.062	2.56	0.771	2.86	3685.804	5.72	4603.00	5.13
LB045_332_rut4	1.077	5.27	0.835	0.99	110.575	5.08	0.942	4.99	4277.937	9.99	4787.23	10.16
LB045_332_rut5	0.615	1.74	0.836	1.01	192.321	1.75	1.633	1.63	6240.506	3.27	5345.34	3.50
LB045_332_rut6	2.502	8.47	906:0	4.25	20.986	8.05	0.403	8.16	2182.670	16.33	4011.75	16.11
LB045_332_rut7	1.745	5.05	0.815	2.33	66.763	4.75	0.566	4.68	2893.028	9.36	4280.87	9.51
LB045_332_rut8	2.560	5.36	0.837	99.9	20.770	5.28	0.182	5.45	1077.569	10.90	3127.92	10.56
LB045_332_rut9	1.067	2.90	0.833	<u>7.</u>	111.005	2.90	0.943	2.60	4282.117	5.20	4791.13	5.79
ELF-03_333_rut1	50.516	7.05	0.724	5.30	2.030	7.41	0.020	8.82	127.527	17.65	1125.78	14.82
ELF-03_333_ruf10	1.617	7.50	0.802	2.86	68.813	6.24	0.629	5.42	3145.384	10.84	4311.14	12.47
ELF-03_333_ruf12	61.986	7.61	0.700	6.92	1.581	7.32	0.016	9.73	102.616	19.46	962.85	14.64
ELF-03_333_rut13	47.197	5.85	0.761	7.22	2.287	6.15	0.021	2.69	135.612	11.38	1208.33	12.30
ELF-03_333_ruf14	8.095	5.21	0.812	2.31	14.568	6.38	0.128	7.05	774.289	14.09	2787.44	12.75
ELF-03_333_ruf15	42.689	4.22	0.821	3.48	2.725	3.68	0.024	3.81	150.803	7.62	1335.29	7.36
ELF-03_333_rut16	364.934	14.26	0.609	21.18	0.237	15.79	0.003	14.37	17.967	28.73	216.18	31.57
ELF-03_333_rut17	388.596	9.75	0.695	12.22	0.249	8.88	0.003	12.99	16.224	25.97	225.55	17.77
ELF-03_333_ruf18	20.057	3.75	0.800	2.65	5.691	4.90	0:020	4.75	311.730	9.51	1929.96	9.81
ELF-03_333_rut2	2.974	3.35	0.835	1.04	39.759	3.67	0.339	3.71	1879.891	7.43	3764.72	7.35

Appendix B: Eastern Sunda arc geochronology data - rutile

18%
0.596 10.58
0.811 1.29
0.808 2.40 0.832 0.45
0.824 0.62
0.762 3.05
0.221 24.44
0.835 2.10
0.808 2.09
0.807 2.74
0.829 2.67
0.840 0.71
0.840 1.36
0.823 3.34
0.815 2.88
0.743 13.07
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0.505 19.16
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0.792 3.96
0.806 7.11

Appendix B: Eastern Sunda arc geochronology data - rutile

Analysis ID	238U/206Pb ratio	15%	207Pb/206Pb ratio	18%	207Pb/235U (calc) ratio	18%	206Pb/238U ratio	15%	206Pb/238U Age (Ma)	2s%	207Pb/235U	207Pb/235U(calc) Age (Ma)	2s%
ELF-01_rut21	283.977	8.82	0.497	13.77	0.253	11.39	0.004	11.38	22.915	22.77		229.25	22.78
ELF-01_rut22	59.512	3.85	0.789	3.37	1.845	4.05	0.017	3.99	107.515	7.97		1061.49	8.10
ELF-01_rut23	127.412	9.33	0.859	10.98	0.974	7.59	0.008	7.34	50.700	14.67		690.28	15.17
ELF-01_rut24	34.298	10.46	0.821	10.57	3.407	8.31	0.029	11.55	184.896	23.11		1506.01	16.63
ELF-01_rut25	27.504	12.83	0.779	99.9	4.042	10.39	0.037	11.58	232.917	23.15		1642.70	20.78
ELF-01_rut26	223.316	22.69	0.819	31.72	0.484	22.16	0.004	23.42	27.029	46.84		400.95	44.33
ELF-01_rut27	237.268	18.00	0.569	27.85	0.339	25.43	0.004	18.16	25.958	36.32		296.40	20.87
ELF-01_rut28	771.595	1.81	0.482	18.36	0.085	14.57	0.001	11.82	8.269	23.64		83.11	29.13
ELF-01_rut29	18.787	5.61	0.794	3.97		7.09	0.052	6.24	329.049	12.49	i	1949.95	14.18
ELF-01_rut3	244.126	14.86	0.356	26.05	-DI-	21.53	0.004	14.92	25.989	29.85	^ Д		43.06
ELF-01_rut30	22.434	4.51	0.872	4.65	5.376	4.57	0.044	4.66	280.470	9.32		1881.11	9.14
ELF-01_rut4	16.914	4.46	0.827	1.76	06.790	3.89	0.059	4.12	367.474	8.23		2084.46	7.77
ELF-01_rut5	21.562	8.82	0.812	3.60	5.435	9.61	0.046	9.23	288.039	18.46		1890.44	19.22
ELF-01_rut6	46.389	4.14	0.860	2.29	2.553	4.28	0.022	4.26	138.658	8.51		1287.34	8.57
ELF-01_rut7	22.841	4.93	0.877	4.60	5.564	99'9	0.044	5.05	275.551	10.09		1910.60	13.31
ELF-01_rut8	7.917	4.26	0.819	2.94	14.533	4.23	0.127	4.57	769.653	9.15		2785.13	8.46
ELF-01_rut9	304.203	30.08	0.717	11.34	0.341	8.52	0.003	19.44	22.135	38.89		297.64	17.04
ELF-02_rut1	108.766	4.43	0.851	3.16	1.094	4.12	00:00	4.48	58.865	8.95		750.40	8.25
ELF-02_rut10	177.216	56.38	0.780	7.03	0.593	5.57	0.005	5.91	34.664	11.82		472.81	11.14
ELF-02_rut11	1043.474	14.32	0.265	28.17	0.034	24.35	0.001	14.70	890'9	29.41		34.28	48.71
ELF-02_rut12	570.012	7.37	0.559	11.92	0.137	9.39	0.002	8.00	11.276	16.00		130.23	18.77
ELF-02_rut13	2299.075	8.00	0.105	21.40	0.006	20.21	0.000	8.02	2.796	16.04		6.34	40.42
ELF-02_rut14	158.859	9.01	962'0	4.06	0.684	5.56	900'0	5.18	40.477	10.36		529.41	11.12
ELF-02_rut15	134.577	6.51	0.625	8.68	0.647	6.93	200.0	6.54	47.308	13.08		506.92	13.85
ELF-02_rut16	132.813	6.07	0.729	8.94	0.783	7.69	0.008	7.07	48.254	14.14		587.23	15.37
ELF-02_rut17	1589.011	12.18	0.480	18.92	0.044	15.00	0.001	12.14	4.105	24.29		43.36	30.00
ELF-02_rut18	2498.458	17.26	0.418	28.65	0.023	23.11	00000	17.33	2.518	34.65		22.67	46.22
ELF-02_rut19	95.845	5.11	0.746	5.96	1.078	6.43	0.011	5.52	67.383	11.03		742.53	12.86
ELF-02_rut2	228.073	8.65	0.841	11.52	0.518	8.09	0.004	8.51	28.751	17.01		423.49	16.18
ELF-02_rut20	2809.996	9.48	0.051	35.86	<dl< td=""><td>34.80</td><td>0000</td><td>9.47</td><td>2.297</td><td>18.93</td><td>^ D</td><td></td><td>09.69</td></dl<>	34.80	0000	9.47	2.297	18.93	^ D		09.69
ELF-02_rut21	2426.292	7.25	0.071	22.62		21.77	0000	7.26	2.648	14.51	< DL		43.53
ELF-02_rut22	122.886	4.82	0.831	4.54	0.916	6.14	0.008	5.65	51.610	11.30		80.099	12.27
ELF-02_rut23	367.470	21.38	1.123	28.00	0.421	17.83	0.003	22.01	17.122	44.03		356.46	35.66
ELF-02_rut24	44.224	6.64	0.915	10.75	2.891	6.29	0.023	7.33	146.111	14.67		1379.52	12.58
ELF-02_rut25	482.854	14.20	0.735	19.76	0.214	14.30	0.002	14.66	13.018	29.32		197.03	28.59
ELF-02_rut26	572.482	7.28	0.458	10.87	0.109	8.95	0.002	7.42	11.158	14.84		104.75	17.90
ELF-02_rut27	19.287	4.66	0.782	4.20	5.550	3.98	0.052	4.61	324.081	9.22		1908.43	7.95
ELF-02_rut28	1913.185	11.90	0.163	27.17	0.012	24.76	0.001	11.88	3.382	23.77		11.99	49.52
ELF-02_rut29	57.865	3.90	0.856	3.04	2.032	3.71	0.017	4.00	110.158	8.00		1126.36	7.42
ELF-02_rut3	516.066	7.83	0.478	1.8	0.125	9.61	0.002	7.92	12.478	15.84		119.97	19.22
ELF-02_rut30	365.730	5.23	0.656	6.41		5.70	0.003	5.86	17.514	11.73		227.37	11.40
ELF-02_rut31	1613.480	12.95	0.269	24.75	^DL	21.40	0.001	13.08	3.912	26.15	, P		42.80
ELF-02_rut32	266.009	4.10	0.664	4.29	0.340	4.45	0.004	4.35	24.181	8.69		297.53	8.90
ELF-02_rut4	17.742	3.64	0.811	2.01	6.371	3.79	0.057	3.70	356.251	7.40		2028.22	7.57
ELF-02_rut5	169.063	6.73	0.740	10.02	0.629	8.72	900'0	8.12	38.429	16.24		495.38	17.44
ELF-02_rut6	19.641	4.15	0.785	4.03	5.732	4.30	0.051	4.11	321.934	8.23		1936.14	8.59
ELF-02_rut7	69.805	4.98	0.804	3.15	1.591	5.12	0.014	5.02	91.854	10.04		966.51	10.23
ELF-02_rut8	1309.426	14.15	0.359	12.14	0.038	10.31	0.001	7.47	4.977	14.93		37.76	20.62
ELF-02_rut9	837.439	9.20	0.688	12.75	0.112	9.57	0.001	9.25	7.719	18.51		107.39	19.14
LB005_rut1	62.830	10.79	0.813	12.79	1.914	10.94	0.016	13.66	103.729	27.33		1085.96	21.88

Appendix B: Eastern Sunda arc geochronology data - rutile

238U/206Pb ratio 1s	#	1s%	207 Pb/206Pb ratio	18%	207Pb/235U (calc) ratio	18%	206Pb/238U ratio	18%	206Pb/238U Age (Ma)	2s%	207Pb/235U(calc) Age (Ma)	2s%
34.222 4.27 0.744	0.744		ω,	5.44	3.032	5.57	0:030	4.88	187.826	9.76	1415.82	11.15
6.32 0.640	0.640		7.85		27.412	8.42	0.311	7.15	1743.494	14.29	3398.28	16.83
12.52 0.841	0.841		8.62		10.876	6.50	0.093	6.72	570.447	13.45	2512.60	13.01
5.782 9.78 0.825 11.66 11.66 11.66 12.50 14.66 14.84	0.825		74.84		19.833	12.10	0.174	8.36	1034.131 < DI	16.72	3083.25 < DL	24.20
10.91	0.710		16.31			8.98	0.080	10.50	494.995	21.00	2208.78	17.97
15.25 0.805	0.805		17.80		23.623	12.88	0.220	11.20	1280.551	22.41	3252.96	25.77
23.738 12.32 0.924 17.06	0.924		17.06		5.069	11.84	0.040	13.09	250.362	26.17	1830.99	23.68
7.07	0.7.0	·	- 0. - 20 C		0.042	7.93	0.007	9.33	45.7.04	0.01	76.50	13.00
6.25	0.837		1.06		41.383	6.71	0.358	6.59	1972.258	13.18	3804.38	13.42
9.50 0.808	0.808		3.45		4.974	9.24	0.045	8.89	283.701	17.77	1814.87	18.47
12.76 0.632	0.632	_	13.46		0.156	10.05	0.002	11.71	11.434	23.41	146.77	20.10
7.24 0.781	0.781		2.85		10.241	8.61	0.095	8.53	585.861	17.05	2456.79	17.23
5.32 0.768	0.768		3.39		4.933	6.45	0.046	5.91	291.811	11.82	1807.95	12.91
10.77 0.647	0.647		9.78		0.553	7.37	900.0	11.06	40.697	22.13	447.05	14.73
5.81 0.796	962.0		3.41		4.377	6.08	0.040	5.45	251.569	10.91	1707.92	12.16
5.08 0.626	0.626		6.22		0.278	6.13	0.003	5.07	20.831	10.14	249.20	12.26
32.004 0.31 0.772 4.34 14.22 6.85 0.823 2.20	0.772		4, c		2.3.14	74.7	0.031	70.7	197.995	13.44	1404.43	19.45 71.45
3.82 0.829	0.829		3		4.179	3.74	2:0:0	40.4	233.633	8.07	1669.99	7.48
5.56 0.747	0.747		3.36		1.293	7.21	0.012	6.81	79.389	13.62	842.46	14.42
7.80 0.752	0.752		2.46		1.636	7.91	0.016	8.02	101.185	16.04	984.29	15.81
6.26 0.835	0.835		1.47		8.832	5.56	0.075	5.57	466.418	11.13	2320.79	11.11
3.93 0.800	0.800		2.89		6.290	4.41	0.057	4.35	355.208	8.69	2017.11	8.82
21.77	0.317		25.08		0.063	21.21	0.001	22.81	8.576	45.61	62.41	42.42
12.50 0.072	0.072		41.30		< DL	39.55	0.001	12.54	5.972	25.07	~ DF	79.10
7 648 5.57 0.691 7.32 7 648 4 46 0.832 0.02	0.691		7.32		0.540	3.47	0.006	3.82	35.905	7.63	438.53	12.93
11.01 0.763	0.763		4.10		0.785	7.72	200:0	7.22	47.072	44.4	588.12	15.44
11.08 0.647	0.647		5.89		0.456	9.23	0:002	8.41	32.626	16.83	381.64	18.46
0.680	0.680		11.52		0.344	8.75	0.004	8.46	23.405	16.92	299.91	17.50
12.07	0.256		22.31		0.054	19.45	0.001	11.56	9.658	23.12	53.45	38.90
7.87 0.839	0.839		1.78		18.650	9.28	0.171	10.97	1015.962	21.94	3023.89	18.55
4.28 0.817	0.817		1.7		3.551	4.12	0.031	4.39	198.390	8.77	1538.77	8.24
9.05 0.308	0.308		15.90		0.117	13.65	0.003	90.0	17.626	18.07	112.53	27.30
1.072 5.26 0.841 2.45	0.841		2.45		118.151	1.4	0.952	5.17	4313.132	10.33	4853.93	8.23
3.04	0.045	`	0.03		34.303	4.00	0.290	9.00	1000.911	. o.	3624.33	7.33
17.75	0.724		5.0.6		0.400	1.17	0.0 0	73.42	91.360	10.19	1214 63	10.47
15.17	127:0				0.063	14.53	0.00	16.80	9 894	33.60	62.4.3	20.00
4 69	0.278		3.74		1.530	4 82	0.014		91 645	10.21	942 44	0.64
443 0.740	0 740		4.60		0.951	5.92	6000	5.77	59.867	11.54	678 87	11.84
13.88 0.565	0.565	.,	21.25		0.144	21.51	0.002	18.58	10.818	37.17	136.29	43.02
4.12 0.808	0.808		4.62		3.686	4.01	0.033	4.30	210.211	8.60	1568.27	8.03
6.78 0.788	0.788		3.48		1.654	5.48	0.015	5.32	97.249	10.64	990.93	10.95
20.19 0.089	0.089		21.85		< DL	20.72	0.001	7.31	5.884	14.61	< DL	41.44
2.06 0.832	0.832		0.69	_	207.927	2.06	1.813	1.77	6667.561	3.54	5424.16	4.12
50.101 3.52 0.794 1.96	0.794		1.96		2.209	3.14	0.020	3.66	127.507	7.31	1183.75	6.28
40.783 4.79 0.800 4.36	0.800		4.36		2.715	6.11	0.025	5.32	156.079	10.63	1332.64	12.21

Appendix B: Eastern Sunda arc geochronology data - rutile

Analysis ID	238U/206Pb ratio	18%	207Pb/206Pb ratio	18%	207Pb/235U (calc) ratio	18%	206Pb/238U ratio	18%	206Pb/238U Age (Ma)	2s%	207Pb/235U(calc) Age (Ma)		2s%
NAF-03_rut4	41.466	13.97	0.769	25.39	2.530	11.88	0.023	12.86	146.870	25.72	12	1280.74	23.75
NAF-03_rut5	204.668	5.44	0.718	5.36	0.485	7.48	0.005	5.81	31.516	11.62	4	401.45	14.97
NAF-03_rut6	250.709	12.53	0.725	8.61	0.419	8.84	0.004	8.99	26.025	17.98		355.24	17.68
NAF-03_rut7	270.999	10.13	0.544	9.92	0.277	7.75	0.004	10.10	23.562	20.20		248.01	15.50
NAF-03_rut8	19.323	6.13	0.846	4.30	6.085	6.35	0.052	6.73	327.651	13.46	16	80.8861	12.71
NAF-03_rut9	549.958	10.34	0.191	19.63	0.048	17.60	0.002	21.54	11.642	43.08		47.39	35.21
SLG-01_rut1	9.499	4.14	0.821	0.95	11.854	4.33	0.105	4.27	643.741	8.53	26	2592.90	8.66
SLG-01_rut10	086.6	2.94	0.831	0.88	11.477	3.07	0.100	3.00	615.755	2.99	25	2562.75	6.15
SLG-01_rut11	21.369	3.67	0.811	2.27	5.360	3.65	0.047	3.89	293.018	7.71	2	1878.54	7.31
SLG-01_rut13	3.388	5.18	0.848	0.67	35.558	5.65	0.298	2.57	1679.104	11.13	36	3654.25	11.30
SLG-01_rut14	74.801	3.33	669.0	2.47	1.296	3.13	0.013	3.34	86.075	29.9	ω	843.94	6.26
SLG-01_rut15	3.614	2.96	0.848	1.04	33.582	2.84	0.278	3.00	1581.112	6.01	36	3597.84	5.68
SLG-01_rut16	61.138	8.72	0.802	9.29	1.776	13.97	0.016	14.95	100.431	29.89	91	1036.72	27.95
SLG-01_rut17	19.564	4.35	0.847	3.49	6.551	4.00	0.052	90.9	329.549	10.11	20	2052.84	8.01
SLG-01_rut18	9.230	4.50	0.803	1.68	12.034	4.66	0.109	4.44	606.509	8.88	26	2607.02	9.33
SLG-01_rut19	3.257	4.21	0.835	0.79	35.759	3.81	0.306	4.03	1719.587	8.07	36	3659.84	7.61
SLG-01_rut2	26.107	3.29	0.780	2.01	4.363	3.31	0.039	3.41	244.586	6.82	17	1705.29	6.62
SLG-01_rut20	10.718	3.06	0.803	1.18	10.354	2.94	0.093	3.09	571.488	6.18	24	2466.99	5.88
SLG-01_rut3	1.555	9.17	0.829	1.17	77.632	7.83	0.630	8.36	3149.259	16.73	44	4431.92	15.67
SLG-01_rut4	12.252	3.22	0.844	1.01	9.537	2.94	0.081	3.25	504.954	6.51	23	2391.09	5.87
SLG-01_rut5	19.852	4.29	962.0	2.57	2.697	4.13	0.051	4.77	319.913	9.55	16	1930.90	8.25
SLG-01_rut6	16.290	3.44	0.824	2.03	7.150	3.44	0.061	3.49	383.487	6.97	21	2130.29	6.88
SLG-01_rut7	82.939	5.30	0.710	4.20	1.166	6.35	0.012	5.51	78.037	11.03	7	784.72	12.70
SLG-01_rut8	8.356	3.58	0.827	0.87	13.794	3.27	0.121	3.64	734.698	7.27	27	2735.69	6.55
SLG-01_rut9	8.035	3.30	0.832	1.44	14.331	3.06	0.125	3.26	758.859	6.52		2771.90	6.12
SPF-06_rut10	2347.264	9.25	0.013	67.46	<dl< td=""><td>96.99</td><td>0.000</td><td>9.18</td><td>2.743</td><td>18.35</td><td>√ DΓ</td><td></td><td>133.90</td></dl<>	96.99	0.000	9.18	2.743	18.35	√ DΓ		133.90
SPF-06_rut11	1444.628	90'9	0.419	8.98	0.041	7.64	0.001	6.48	4.469	12.97		40.41	15.28
SPF-06_rut12	1194.753	10.33	0.463	16.08	0.054	12.92	0.001	10.33	5.393	20.67		53.59	25.83
SPF-06_rut13	137.526	4.71	0.762	2.12	0.758	4.33	2000	4.23	46.695	8.47	4)	572.95	8.66
SPF-06_rut14	244.285	7.82	0.732	4.19	0.423	8.02	0.004	6.50	26.372	12.99	67	358.34	16.04
SPF-06_rut15	932.250	14.71	0.681	20.98	0.102	15.43	0.001	15.13	6.687	30.27		98.32	30.85
SPF-06_rut16	251.187	9.83	0.708	9.60	0.410	7.71	0.004	11.19	27.123	22.37		348.94	15.41
SPF-06_rut17	1153.085	8.57	0.399	11.18	0.049	9.40	0.001	8.89	5.676	17.78		49.02	18.80
SPF-06_rut18	930.539	18.56	0.614	27.66	0.087	20.69	0.001	18.77	6.679	37.54		84.88	41.38
SPF-06_rut19	427.621	5.65	0.657	6.11	0.217	5.87	0.002	6.38	14.976	12.76		99.47	11.74
SPF-06_rut2	2576.909	12.67	0.040	54.58	<dl< td=""><td>53.25</td><td>0.000</td><td>12.59</td><td>2.477</td><td>25.18</td><td>&lt; DL</td><td></td><td>106.49</td></dl<>	53.25	0.000	12.59	2.477	25.18	< DL		106.49
SPF-06_rut20	453.451	7.22	0.611	6.28	0.190	9.52	0.002	6.80	14.172	13.61	•	176.35	19.04
SPF-06_rut21	817.569	9.52	0.399	15.42	990.0	12.74	0.001	9.53	7.789	19.05	•	65.35	25.47
SPF-06_rut22	419.639	8.73	0.642	13.39	0.227	9.37	0.002	10.49	16.000	20.97	. •	207.53	18.74
SPF-06_rut23	195.073	4.53	0.758	2.70	0.539	4.73	0.005	5.19	33.058	10.38	4	437.73	9.47
SPF-06_rut24	379.426	3.78	0.713	3.37	0.257	4.10	0.003	4.00	17.047	7.99		232.30	8.21
SPF-06_rut25	43.373	8.37	0.803	4.24	2.558	6.34	0.023	7.12	149.123	14.25	12	1288.63	12.68
SPF-06_rut26	27.584	12.38	0.826	2.26	4.232	9.74	0.036	10.78	224.889	21.56	16	1680.18	19.47
SPF-06_rut27	135.656	5.01	0.784	4.85	0.804	5.29	2000	5.07	47.393	10.14	4,	598.92	10.58
SPF-06_rut28	1583.390	8.60	0.457	13.17	0.040	10.70	0.001	8.56	4.004	17.13		39.86	21.40
SPF-06_rut29	316.272	8.27	0.689	5.64	0.301	11.15	0.003	9.38	20.547	18.75		267.36	22.30
SPF-06_rut3	704.307	11.93	0.328	18.27	0.068	15.46	0.001	17.08	9.229	34.15		66.72	30.93
SPF-06_rut30	46.509	3.42	0.816	2.51	2.429	3.40	0.021	3.52	137.042	7.04	12	1251.12	6.79
SPF-06_rut4	307.945	9.75	0.842	5.35	0.384	8.22	0.003	7.50	21.015	15.01		329.79	16.45
SPF-06_rut5	1406.328	11.01	0.479	17.02	0.048	13.55	0.001	11.12	4.566	22.24		47.45	27.10

Appendix B: Eastern Sunda arc geochronology data - rutile

Analysis ID	238U/206Pb ratio	18%	207 Pb/206Pb ratio	18%	207Pb/235U (calc) ratio	18%	206Pb/238U ratio	18%	206Pb/238U Age (Ma)	2s%	207Pb/235U(calc) Age (Ma)	2s%
SPF-06_rut6	1925.846	14.94	0.010	100.33	70 >	89.68	0.001	16.41	3.378	32.83	< DL	199.35
SPF-06_rut7	687.793	16.04	0.633	24.00	0.126	17.89	0.001	17.65	8.866	35.30	120.42	35.77
SPF-06_rut8	992.948	13.82	0.283	19.05	0.038	16.45	0.001	14.79	6.468	29.58	38.32	32.89
SPF-06_rut9	334.298	7.22	0.626	7.21	0.265	7.60	0.003	7.55	19.486	15.09	238.40	15.21
UG012184_rut1	0.167	5.43	0.821	1.56	682.857	4.38	6.014	4.54	12557.398	9.08	6628.17	8.77
UG012184_ruf10	0.848	4.52	0.823	1.59	139.788	4.08	1.1//	4.24	5014.064	10.38	3256 69	8.16
UG012184_ruf12	0.288	3 4	0.822	2.21	408.042	5.29	3.567	4.70	9791.335	9.39	6106.33	10.58
UG012184_rut13	3.479	2.92	0.818	2.69	32.532	2.72	0.288	3.14	1630.591	6.27	3566.53	5.44
UG012184_rut14	2.513	2.62	0.851	2.28	47.337	2.90	0.403	2.87	2183.454	5.73	3937.87	5.81
UG012184_rut15	1.395	3.85	0.813	1.63	80.506	3.49	0.717	3.38	3483.912	6.75	4468.38	6.98
UG012184_rut16	1.279	14.71	0.804	4.97	88.685	11.73	0.807	12.18	3815.245	24.35	4565.47	23.45
UG012184_rut17	0.366	2.97	0.850	1.12	320.476	2.88	2.737	2.68	8497.422	5.35	5861.73	5.77
UG012184_rut18	1.477	3.49	0.848	3.04	79.916	3.34	0.682	3.73	3351.965	7.45	4461.00	6.68
UG012184_rut19	1.450	4.66	0.837	1.39	82.522	4.21	0.693	4.40	3394.853	8.79	4493.18	8.42
UG012184_rut2	3.196	4.88	0.793	2.23	34.290	5.19	0.312	5.65	1750.568	11.30	3618.41	10.39
UG012184_rut20	1.265	4.82	0.853	1.73	93.685	3.99	0.795	4.16	3770.941	8.32	4620.55	7.98
UG012184_rut21	2.096	6.81	0.834	2.63	56.267	5.37	0.489	6.22	2564.703	12.45	4109.99	10.74
UG012184_rut22	0.071	6.65	0.849	0.72	1735.428	6.03	14.098	6.74	17499.184	13.48	7574.34	12.06
UG012184_rut23	299:0	8.85	0.821	1.68	176.046	5.11	1.486	5.81	5869.864	11.62	5256.04	10.22
UG012184_rut24	092'0	4.39	0.836	0.91	158.462	5.03	1.328	4.66	5446.920	9.32	5149.83	10.05
UG012184_rut25	0.844	3.62	0.853	2.29	143.334	3.56	1.189	3.62	5051.287	7.25	5048.62	7.11
UG012184_rut26	1.495	7.83	0.851	1.81	82.695	8.11	0.667	8.43	3293.846	16.85	4495.28	16.22
UG012184_rut27	4.717	3.55	0.825	1.40	24.520	3.70	0.212	3.63	1240.086	7.26	3289.30	7.41
UG012184_rut28	0.978	5.02	0.828	1.24	118.023	5.04	1.024	4.84	4546.490	9.67	4852.84	10.07
UG012184_rut3	2.495	3.81	0.839	2.84	48.504	3.51	0.403	3.88	2181.138	7.76	3962.08	7.02
UG012184_rut4	2.185	4.76	22.0	2.53	49.830	4.26	0.461	4.78	2444.695	9.56	3988.92	8.51
UG012184_rut5	1.994	3.55	0.831	1.4	60.192	3.69	0.505	3.65	2634.942	7.30	4177.30	7.38
UG012184_rut6	3.898	5.16	0.853	4.25	30.886	2.07	0.264	5.77	1510.480	11.54	3515.42	10.15
UG012184_rut7	2.226	3.11	0.820	1.42	52.879	2.84	0.450	3.12	2396.877	6.23	4048.08	5.68
UG012184_rut8	1.544	3.09	0.828	1.17	76.374	3.04	0.652	3.12	3234.643	6.23	4415.54	6.07
UG012184_rut9	0.323	8.05	0.858	0.98	371.263	7.63	3.121	7.47	9128.548	14.94	6010.66	15.27
UG012186_rut1	2.068	5.43	0.861	1.40	59.454	4.61	0.488	4.99	2562.625	9.97	4164.98	9.22
UG012186_rut10	21.344	7.98	0.903	2.61	6.238	9.39	0.048	8.80	302.497	17.60	2009.77	18.78
UG012186_ruf11	2.836	4.02	0.838	1.36	42.628	3.63	0.356	3.78	1963.605	7.56	3833.78	7.27
UG012186_rut12	0.404	3.54	0.814	2.26	293.124	2.85	2.485	3.94	8047.690	7.88	5771.44	5.71
UG012186_rut13	0.259	11.53	0.842	1.16	468.750	9.42	3.772	9.55	10073.745	19.10	6246.84	18.85
UG012186_rut14	5.259	8.99	0.855	5.27	24.952	12.61	0.197	9.78	1161.041	19.57	3306.33	25.22
UG012186_rut15	2.428	2.94	998.0	3.63	50.012	3.44	0.419	2.94	2256.519	2.87	3992.55	6.87
UG012186_rut16	23.802	4.86	0.840	5.22	5.082	4.50	0.042	5.70	267.938	11.39	1833.14	9.01
UG012186_rut17	2.024	5.76	0.834	0.82	58.849	6.31	0.499	6.18	2608.225	12.36	4154.77	12.63
UG012186_rut18	2.017	9.75	0.846	3.44	66.064	12.48	0.521	13.53	2704.719	27.05	4270.34	24.95
UG012186_rut19	2.847	3.86	0.844	0.95	40.875	3.61	0.354	3.78	1953.830	7.55	3792.15	7.21
UG012186_rut2	1.448	3.71	0.839	1.27	79.278	3.73	0.694	3.66	3396.964	7.33	4452.96	7.46
UG012186_rut20	5.150	4.82	0.832	1.55	23.297	6.50	0.198	6.07	1162.855	12.14	3239.43	13.01
UG012186_rut21	8.996	3.41	0.799	2.28	12.717	3.35	0.112	3.55	681.792	7.10	2658.92	6.70
UG012186_rut22	9.877	5.33	0.809	2.75	11.715	6.05	0.102	5.82	626.887	11.64	2581.88	12.11
UG012186_rut23	2.544	7.18	0.809	2.48	45.976	5.82	0.395	7.03	2144.554	14.07	3908.86	11.63
UG012186_rut24	5.696	3.95	0.842	1.73	20.529	3.54	0.177	3.65	1052.322	7.30	3116.60	2.08
UG012186_rut3	0.289	5.89	0.835	09:0	400.104	5.96	3.473	5.95	9656.841	11.90	6086.43	11.93

Appendix B: Eastern Sunda arc geochronology data - rutile

Analysis ID	238U/206Pb ratio	18%	207Pb/206Pb ratio	15%	207Pb/235U (calc) ratio	18%	206Pb/238U ratio	18%	206Pb/238U Age (Ma)	2s%	207Pb/235U(calc) Age (Ma)	2s%
UG012186_rut4	0.379	13.33	0.822	0.87	298.125	9.81	2.675	89.6	8390.589	19.37	5788.56	19.62
UG012186_rut5	1.547	5.22	0.824	1.88	73.718	5.71	0.646	5.54	3213.370	11.08	4380.08	11.43
UG012186_rut6	0.375	3.03	0.840	0.56	311.294	2.75	2.677	3.03	8393.282	90.9	5832.30	5.50
UG012186_rut7	11.007	4.78	0.833	2.20	10.619	4.57	0.092	5.02	568.909	10.03	2490.34	9.15
UG012186_rut8	8.387	5.06	0.828	2.87	14.339	4.77	0.119	4.96	725.708	9.91	2772.40	9.54
UG012186_rut9	3.332	9.49	0.868	2.46	38.479	7.69	0.310	77.7	1740.686	15.54	3732.31	15.39
UG012190_rut1	4.340	31.85	0.820	6.89	26.457	9.44	0.227	9.88	1316.871	19.76	3363.58	18.88
UG012190_rut10	16.854	5.66	0.828	5.02	7.070	5.74	0.059	5.75	371.797	11.50	2120.25	11.49
UG012190_rut11	39.957	14.77	298.0	15.75	2.800	13.39	0.027	22.53	168.862	45.06	1355.59	26.77
UG012190_ruf12	72.896	8.01	0.765	10.27	1.460	7.72	0.014	7.88	89.283	15.76	913.91	15.45
UG012190_rut13	13.720	2.00	0.829	5.99	8.620	4.45	0.073	5.92	453.431	11.85	2298.71	8.91
UG012190_rut14	11.966	4.63	0.824	4.58	9.510	4.79	0.084	5.04	520.263	10.08	2388.50	9.58
UG012190_rut15	47.477	7.11	0.779	6.33	2.263	5.91	0.021	5.94	134.487	11.88	1200.75	11.82
UG012190_rut16	6.863	2.00	0.803	2.11	16.274	4.32	0.146	4.25	878.878	8.50	2893.03	8.64
UG012190_rut17	3.994	8.29	0.849	2.99	29.449	7.45	0.250	7.12	1437.907	14.25	3468.62	14.89
UG012190_rut18	9.895	6.11	0.809	2.94	11.361	6.61	0.101	6.46	621.889	12.93	2553.20	13.22
UG012190_rut19	4.378	6.91	0.829	2.03	26.012	8.43	0.229	8.13	1328.783	16.26	3346.98	16.87
UG012190_rut2												
UG012190_rut20	3.210	4.62	0.801	1.42	34.633	4.27	0.312	4.65	1752.173	9.30	3628.24	8.54
UG012190_rut21	0.506	3.72	0.843	0.72	228.205	3.25	1.970	3.59	7018.181	7.18	5518.22	6.49
UG012190_rut22	14.956	4.37	0.831	2.73	7.636	4.59	0.067	4.90	416.412	9.79	2189.10	9.18
UG012190_rut23	11.947	7.94	0.809	3.08	9.111	6.61	0.083	6.88	516.254	13.76	2349.22	13.23
UG012190_rut24	4.701	6.83	0.810	2.85	23.435	7.57	0.209	6.81	1223.600	13.63	3245.18	15.14
UG012190_rut25	9.446	00.9	0.848	3.87	12.309	5.52	0.105	5.57	645.698	11.14	2628.26	11.05
UG012190_rut26	9.237	4.41	0.838	3.16	12.792	4.28	0.109	4.43	666.325	8.87	2664.42	8.56
UG012190_rut27	28.122	12.34	0.687	14.16	3.535	8.19	0.036	96.6	225.093	19.91	1535.05	16.38
UG012190_rut28	32.094	8.18	0.841	8.75	3.702	10.07	0:030	10.67	191.760	21.34	1571.79	20.14
UG012190_rut29	164.060	22.56	0.060	35.78	0.529	26.28	0.005	24.84	34.913	49.68	431.48	52.57
UG012190_rut3	713.328	28.38	0.208	61.19	<dl< td=""><td>54.21</td><td>0.001</td><td>28.86</td><td>8.879</td><td>57.72</td><td>&lt; DL</td><td>108.41</td></dl<>	54.21	0.001	28.86	8.879	57.72	< DL	108.41
UG012190_rut30	18.166	9.13	0.791	2.66	2.977	7.33	0.056	8.25	351.930	16.50	1972.50	14.65
UG012190_rut31	17.716	00.9	0.762	3.63	2:907	6.48	0.057	7.11	354.683	14.23	1962.30	12.95
UG012190_rut32	5.645	5.15	0.862	1.76	21.103	4.85	0.176	4.97	1047.729	9.95	3143.33	69.6
UG012190_rut4	5.221	6.45	0.805	2.15	22.010	7.40	0.190	7.47	1121.532	14.94	3184.18	14.80
UG012190_rut5	12.255	4.34	0.800	4.79	9.183	4.82	0.082	4.39	506.466	8.77	2356.41	9.65
UG012190_rut6	4.978	5.53	0.817	2.10	22.772	6.47	0.201	5.91	1178.802	11.82	3217.26	12.95
UG012190_rut7												
UG012190_rut8	31.803	34.31	0.764	4.64	3.284	4.20	0.031	9.38	199.296	18.75	1477.36	8.41
UG012190_rut9	7.549	3.14	0.829	1.45	15.074	2.81	0.132	3.24	799.488	6.47	2819.92	5.62
UG012193_rut1	10.531	10.06	0.852	99.9	11.557	9.38	0.093	9.57	573.826	19.14	2569.20	18.76
UG012193_rut10	1.671	4.89	0.877	4.16	77.040	4.64	0.597	4.85	3015.983	9.70	4424.25	9.29
UG012193_ruf11	11.216	5.47	0.769	3.69	9.781	6.04	680'0	5.87	549.576	11.74	2414.41	12.08
UG012193_rut12	0.130	5.48	0.840	0.49	943.277	5.51	7.829	5.48	14040.188	10.95	6955.80	11.03
UG012193_rut13	28.721	7.49	0.817	6.99	4.151	6.83	0.034	8.65	216.673	17.30	1664.41	13.66
UG012193_rut14	15.616	8.47	0.795	6.93	7.203	5.97	0.063	9.16	395.693	18.33	2136.86	11.93
UG012193_rut15	0.512	3.85	0.833	0.93	229.664	3.40	1.963	3.93	7002.618	7.86	5524.66	6.79
UG012193_rut16	7.428	13.77	0.881	5.04	17.807	11.21	0.136	12.86	823.019	25.72	2979.37	22.41
UG012193_rut17	1.513	3.49	0.848	1.99	78.658	3.14	0.661	3.57	3271.200	7.14	4445.09	6.29
UG012193_rut18	3.262	4.03	0.832	2.13	35.839	3.81	0.307	3.98	1723.834	7.96	3662.03	7.61
UG012193_rut2	10.443	2.00	0.843	4.81	12.275	5.39	0.098	5.48	603.803	10.97	2625.66	10.78
UG012193_rut3	14.961	2.60	0.848	3.98	7.814	5.17	290.0	5.68	417.784	11.37	2209.80	10.34

Appendix B: Eastern Sunda arc geochronology data - rutile

Analysis ID	238U/206Pb ratio	1s%	207Pb/206Pb ratio	18%	207Pb/235U (calc) ratio	18%	206Pb/238U ratio	18%	206Pb/238U Age (Ma)	2s%	207Pb/235U(calc) Age (Ma)	) Age (Ma)	2s%
UG012193_rut4	2.959	4.89	0.842	2.54	41.121	4.89	0.335	5.18	1862.345	10.35		3798.08	9.77
UG012193_rut5	8.843	5.86	0.863	3.49	13.894	6.27	0.112	5.96	683.789	11.92		2742.47	12.54
UG012193_rut6	2.045	8.69	0.831	3.17	57.931	92.9	0.484	6.53	2544.934	13.07		4139.07	13.51
UG012193_rut7	5.729	4.13	0.830	1.66	20.581	4.03	0.176	4.25	1046.320	8.50		3119.07	8.06
UG012193_rut8	4.101	6.57	0.816	2.22	28.564	4.89	0.247	5.02	1424.661	10.05		3438.64	9.77
UG012193_rut9	0.940	3.80	0.826	2.20	123.407	3.64	1.068	3.80	4682.419	7.61		4897.76	7.28
UG012195_rut1	0.008	9.32	0.836	0.99	15549.382	9.27	133.932	9.37	31618.104	18.75		9800.32	18.53
UG012195_rut10	11.294	7.26	0.896	8.46	11.001	6.99	0.089	7.74	549.322	15.48		2523.26	13.98
UG012195_ruf11	1.388	4.92	0.839	1.26	85.978	4.50	0.725	4.61	3513.119	9.22		4534.35	8.99
UG012195_ruf12	0.228	6.94	0.835	1.24	504.971	4.93	4.365	2.00	10828.865	10.00		6322.26	9.86
UG012195_rut13	8.068	10.46	0.757	13.67	13.047	10.60	0.126	10.59	764.142	21.19		2683.08	21.19
UG012195_rut14	0.288	3.71	0.840	0.80	410.331	3.18	3.464	3.54	9644.538	7.08		6112.00	6.37
UG012195_rut15	5.179	17.00	1.139	19.53	30.875	14.54	0.192	16.79	1132.565	33.58		3515.09	29.08
UG012195_rut2	0.349	8.97	0.847	7.63	340.616	10.66	2.903	8.31	8778.172	16.62		5923.43	21.31
UG012195_rut3	3.407	5.47	962'0	4.33	32.845	4.70	0.300	5.96	1692.589	11.93		3575.98	9.39
UG012195_rut4	21.568	22.55	0.612	17.50	3.868	13.36	0.045	12.19	284.629	24.37		1607.03	26.71
UG012195_rut5	281.660	25.20	266.0	33.49	<dl <<="" td=""><td>22.07</td><td>&lt; DL</td><td>24.76</td><td>&lt; DL</td><td>49.51</td><td>&lt; DL</td><td></td><td>44.13</td></dl>	22.07	< DL	24.76	< DL	49.51	< DL		44.13
UG012195_rut6	0.728	8.14	0.850	2.58	168.302	8.70	1.358	9.27	5530.280	18.54		5210.63	17.40
UG012195_rut7	4.600	4.68	0.865	3.47	25.404	4.23	0.220	4.93	1283.068	9.87		3323.86	8.45
UG012195_rut8	3.683	8.23	098'0	3.35	37.572	7.52	0.290	10.02	1642.455	20.04		3708.71	15.05
UG012195_rut9	990:0	13.93	0.850	1.12	1855.740	9.60	15.045	9.31	17891.476	18.63		7642.36	19.20
UG012197_rut1	0.021	4.99	0.836	0.76	5482.127	4.45	47.344	4.32	25001.266	8.63		8741.87	8.90
UG012197_rut10	0.132	3.27	0.844	1.22	892.409	3.33	7.667	3.24	13921.353	6.49		25.689	6.67
UG012197_rut2	0.132	3.35	0.839	1.45	878.329	3.16	7.569	3.06	13847.711	6.13		6883.44	6.32
UG012197_rut3	0.345	3.59	0.848	0.93	347.325	3.41	2.914	3.49	8796.820	96.98		5943.18	6.82
UG012197_rut4	0.343	4.90	0.843	1.07	340.165	4.46	2.932	4.45	8825.815	8.90		5922.09	8.92
UG012197_rut5	104.204	4.98	22.0	4.80	1.033	4.74	0.010	5.30	61.888	10.59		720.37	9.48
UG012197_rut6	0.924	4.61	0.805	2.35	125.490	4.49	1.095	4.46	4768.586	8.91		4914.62	8.99
UG012197_rut7	0.079	7.82	0.843	0.65	1470.264	6.93	12.684	06.9	16865.084	13.79		7406.08	13.86
UG012197_rut8	960.613	7.23	0.501	11.06	0.073	8.71	0.001	7.15	6.844	14.30		71.99	17.43
UG012197_rut9	0.323	6.49	0.841	3.25	361.134	6.84	3.117	6.36	9122.654	12.72		5982.65	13.69
UG012198_rut1	8.077	3.68	0.840	2.56	14.867	3.51	0.125	4.20	759.342	8.40		2806.78	7.03
UG012198_ruf10	7.234	6.33	0.820	2.31	15.951	6.38	0.139	6.99	840.423	13.99		2873.90	12.76
UG012198_ruf11	25.472	3.74	0.780	3.12	4.396	3.69	0.039	4.04	248.771	8.08		1711.51	7.38
UG012198_ruf12	323.078	2.57	0.638	5.95	0.273	5.94	0.003	5.63	19.904	11.26		244.82	11.87
UG012198_rut13	37.614	8.07	962'0	3.21	2.958	10.11	0.026	10.64	164.259	21.27		1396.79	20.23
UG012198_rut14	26.699	5.53	0.829	9.90	4.395	6.67	0.038	6.43	243.261	12.87		1711.32	13.34
UG012198_rut15	9.366	4.58	0.831	2.60	12.442	4.61	0.107	4.78	655.776	9.56		2638.38	9.22
UG012198_ruf16	2.283	3.03	0.827	2.63	50.255	2.87	0.441	3.01	2355.943	6.01		3997.37	5.73
UG012198_rut17	10.695	12.65	0.826	3.71	10.733	11.16	0.094	10.66	579.879	21.33		2500.32	22.32
UG012198_rut18	15.170	3.51	0.839	0.97	7.575	3.17	990'0	3.49	410.059	66.9		2181.90	6.33
UG012198_ruf19	120.211	25.65	0.643	11.83	0.743	30.54	800.0	31.05	48.231	62.11		563.92	61.08
UG012198_rut2	18.858	4.00	0.847	2.67	6.294	3.72	0.053	4.19	333.257	8.39		2017.66	7.44
UG012198_rut20	361.784	14.10	0.566	12.80	0.216	10.01	0.003	8.86	18.150	17.72		198.80	20.02
UG012198_rut21	134.543	8.39	952.0	9.74	0.829	8.05	0.008	8.63	48.487	17.27		612.82	16.09
UG012198_rut22	42.405	5.45	0.832	3.86	2.878	4.95	0.024	5.68	150.591	11.36		1376.27	9.91
UG012198_rut23	13.626	3.43	0.817	1.84	8.221	3.28	0.074	3.52	458.013	7.05		2255.68	6.55
UG012198_rut24	8.529	3.41	0.864	2.10	13.906	3.58	0.118	3.64	720.744	7.28		2743.33	7.16
UG012198_rut25	4.546	3.93	0.824	1.79	25.224	4.20	0.221	4.00	1287.231	8.00		3316.92	8.41
UG012198_rut26	22.281	7.53	0.838	2.70	5.264	8.62	0.045	8.68	283.735	17.36		1863.10	17.25

Appendix B: Eastern Sunda arc geochronology data - rutile

Analysis ID	238U/206Pb ratio	18%	207Pb/206Pb ratio	18%	207Pb/235U (calc) ratio	18%	206Pb/238U ratio	18%	206Pb/238U Age (Ma)	2s%	207Pb/23	207Pb/235U(calc) Age (Ma)	2s%
UG012198_rut27	0.110	7.05	0.842	0.77	1089.443	7.58	9.231	7.42	14990.387	14.83		7101.93	15.16
UG012198_ruf28	1.850	4.02	0.831	1.77	65.287	3.87	0.541	4.13	2786.344	8.27		4258.51	7.74
UG012198_rut29	11.237	4.95	0.752	3.83	9.559	4.31	0.089	5.40	549.281	10.79		2393.25	8.62
UG012198_rut3	3.189	4.91	0.832	2.37	38.098	4.74	0.316	4.93	1770.326	9.87		3722.48	9.49
UG012198_rut30	24.221	4.97	0.805	3.28	4.715	5.12	0.042	5.21	262.364	10.42		1769.85	10.24
UG012198_rut4	1.974	5.92	0.796	2.55	25.897	7.87	0.526	8.35	2724.433	16.70		4138.49	15.74
UG012198_rut5	81.746	4.63	0.786	4.31	1.347	4.78	0.012	5.79	77.430	11.59		866.44	9.55
UG012198_rut6	8.419	4.57	0.835	2.77	13.655	4.49	0.120	5.05	730.107	10.10		2726.11	8.99
UG012198_rut7	19.645	5.29	0.785	3.58	5.543	5.46	0.051	5.59	320.896	11.18		1907.23	10.91
UG012198_rut8	909'5	4.66	0.829	1.91	20.984	4.31	0.178	4.48	1055.782	8.97		3137.84	8.61
UG012198_rut9	46.868	6.26	0.802	5.45	2.347	6.89	0.021	6.98	135.687	13.96		1226.64	13.77
BHF-01 rut1	1064.995	10.25	0.389	16.35	0.050	13.73	0.001	10.21	6.054	20.41		49.86	27.47
BHF-01 rut4	980.102	21.36	0.040	96.44	^DL	94.03	0.001	21.92	6.700	43.83	\ С		188.07
BHF-01 rut5	1327.172	11.10	0.248	21.11	0.026	18.63	0.001	11.00	4.906	21.99		25.87	37.26
BHF-01 rut6	1574.597	14.49	0.202	30.44	0.018	27.24	0.001	14.50	4.125	28.99		17.96	54.48
BHF-01 rut8	360.427	9.53	0.733	12.41	0.290	9.52	0.003	9.79	17.708	19.58		258.63	19.05
BHF-01 rut11	1499.165	10.29	0.282	18.51	0.026	16.17	0.001	10.32	4.287	20.64		25.91	32.34
BHF-01 rut12	1868.051	12.79	0.040	47.08	< DL	45.59	0.001	12.76	3.493	25.53	^ Б		91.18
BHF-01 rut13	893.076	9.85	0.330	16.65	0.051	14.31	0.001	9.88	7.176	19.77		50.31	28.63
BHF-01 rut14	389.721	37.93	0.484	14.92	0.171	12.17	0.003	9.95	16.811	19.90		160.48	24.34
BHF-01 rut15	1331.385	36.29	0.285	75.76	<dl <<="" td=""><td>64.57</td><td>0.001</td><td>33.32</td><td>5.992</td><td>99.99</td><td>\ \</td><td></td><td>129.15</td></dl>	64.57	0.001	33.32	5.992	99.99	\ \		129.15
BHF-01 rut16	1702.063	9.30	0.283	16.46	0.023	14.47	0.001	9.32	3.780	18.64		22.94	28.93
BHF-01 rut17	210.682	8.23	0.903	10.06	0.594	9.83	0.005	8.21	30.299	16.42		473.46	19.65
BHF-01 rut18	1842.031	16.29	0.023	93.29	< DL	91.98	0.001	16.39	3.464	32.77	\ Р		183.96
BHF-01 rut19	1524.552	11.17	0.192	23.56	0.017	21.31	0.001	11.26	4.172	22.52		17.36	42.62
BHF-01 rut20	1529.047	10.32	0.036	45.64	< DL	44.73	0.001	10.36	4.184	20.73	\ Р		89.46
BHF-01 rut21	81.690	9.57	0.749	11.06	1.257	10.68	0.012	10.68	77.627	21.37		826.38	21.36
BHF-01 rut22	213.851	26.91	0.645	14.41	0.415	11.17	0.005	10.49	29.833	20.97		352.28	22.35
BHF-01 rut23	1066.624	15.17	0.363	25.73	0.047	21.41	0.001	14.73	6.201	29.47		46.33	42.82
BHF-01 rut24	1719.284	12.00	0.262	22.50	0.021	19.69	0.001	12.03	3.787	24.05		21.17	39.38
BHF-01 rut25	2212.399	13.37	0.064	45.99	< DL	44.28	0.000	13.42	2.987	26.85	^ Б		88.56
BHF-01 rut26	1870.041	12.17	0.271	22.59	0.020	19.67	0.001	12.18	3.438	24.36		20.04	39.35
BHF-01 rut27	978.110	11.63	0.198	24.71	0.028	22.26	0.001	11.81	6.565	23.62		27.62	44.52
BHF-01 rut28	46.185	5.45	0.851	3.92	2.548	5.96	0.022	6.23	138.924	12.47		1285.85	11.92
BHF-01 rut29	778.499	11.63	0.552	17.08	0:00	13.44	0.001	11.69	8.390	23.37		95.98	26.88
BHF-01 rut30	840.429	10.57	0.468	16.02	0.077	13.06	0.001	10.55	7.710	21.09		75.32	26.13
BHF-01 rut31	49.500	7.90	0.762	3.20	2.122	90'9	0.020	6.07	128.994	12.14		1155.94	12.11
BHF-01 rut32	907.946	11.12	0.427	17.50	0.064	14.41	0.001	11.13	7.044	22.26		63.24	28.82
BHF-01 rut33	1486.006	22.04	0.147	55.09	JD,	50.50	0.001	22.94	4.038	45.89	占 :		100.99
BHF-01 rut34	1533.146	12.60	0.208	25.96	7 4	23.24	0.001	12.61	4.163	25.22	로 5 v v		46.48
DELIT 04 11430	2045.71.61	0.0	0.233	20.07	7 7	23.10	100:0	4.30	4.092	23.93	d =		5.00
DELE 04 2:427	4403 600	0.00	0.04	20.00	, ,	24.34	0000	30.00	3.172	40.17	ظ ة د /		26.10
BHE-01 rut38	787 313	12.63	0.045	10.86	, DL	18.00	0.00	12.72	9.502	25.02	, ,	77.05	32 17
000000000000000000000000000000000000000	20.010	3 5	1000	9.60		0.00	2000	27.72	3-00	1 000		00.00	
BHF-01 rut39	721.646	11.85	0.396	19.62	0.074	16.26	0.001	4.94	8.826	23.88		72.90	32.52
DHF-01 10(40	925	F	200	7		9	0	,	124.25	9		** 000	ć
BHF-04 rut2	86.756	4.77	0.831	4.37	1.340	4.69	0.012	5.40	75.15/	10.80		863.44	9.39
BHF-04 rut3	114.480	5.47	0.850	5.75	1.025	6.32	0.009	5.77	56.258	11.55		716.33	12.64
BHF-04 rut4	17.233	6.28	0.838	2.72	6.807	6.10	890.0	6.31	366.215	12.61		2086.67	12.21
BHF-04 rut5	1018.010	8.97	0.377	13.17	0.051	11.31	0.001	8.41	6.340	16.83		50.74	22.63

Appendix B: Eastern Sunda arc geochronology data - rutile

Analysis ID	238U/206Pb ratio	18%	207 Pb/206Pb ratio	1s%	207Pb/235U (calc) ratio	15%	206Pb/238U ratio	18%	206Pb/238U Age (Ma)	2s%	207Pb/235U(calc) Age (Ma)	2s%
BHF-04 rut6	155.790	6.73	0.723	09'9	0.647	7.39	00:00	6.58	41.915	13.16	506.49	14.77
BHF-04 rut8	41.895	4.15	0.838	1.81	2.754	4.48	0.024	4.32	152.304	8.65	1343.24	8.96
BHF-04 rut9	10.714	4.02	0.789	2.69	10.187	4.18	0.094	4.25	578.169	8.50	2451.93	8.36
BHF-04 rut10	85.499	13.65	0.644	19.69	1.054	10.93	0.012	14.43	77.625	28.85	730.99	21.85
BHF-04 rut11	562.221	15.70	0.440	22.65	0.108	18.33	0.002	14.23	11.516	28.46	104.18	36.66
BHF-04 rut12	681.533	17.18	0.425	14.63	0.086	12.21	0.001	9.50	9.433	19.00	83.59	24.43
BHF-04 rut13	481.276	9.47	0.539	11.58	0.155	9.52	0.002	9.50	13.567	19.00	146.53	19.05
BHF-04 rut14	87.072	10.16	0.7/5	6.44	1.217	6.43	0.011	6.41	73.224	12.82	808.49	12.86
BHF-04 rut15	54.74	94.4	0.792	\$ 50.5	2.309	4.70	0.021	4.00	135.100	9.55	1215.07	8.97
BHF-04 rut16	58.504	5. T	0.731	12.4	1.728	5.39	0.017	v. 6	110.168	11.08	1019.00	10.78
BHF 04 rut1/	1430.327	09.70	0.040	9.4. n	0.233	7.1.34	100:0	33.01	5.403	7 : 2	22.032	45.00
BHF-04 rut16	30.852	0.00	0.763	0.00 18	2.892	7.10	0.028	0.03	1/5./6/	13.77	365 13	19.19
BHE-04 rut20	31 026	8.9	0.841	2 02 02	3.734	0.00	0.032	5.75	20.131	11.49	1578 71	13.77
BHF-04 rut21	948.392	18.78	0.367	32.60	0.052	26.95	0.001	19.19	6.529	38.37	51.59	53.90
BHF-04 rut22	38.999	4.76	0.795	4.42	2.836	5.18	0.026	5.70	165.252	11.40	1365.22	10.36
JEM-02 rut1	366.559	6.20	0.468	8.21	0.178	7.93	0.003	6.38	17.751	12.76	166.58	15.87
JEM-02 rut1	892.461	4.75	0.044	13.80	0.007	13.88	0.001	4.83	7.248	29.6	98.9	27.75
PCT-01 rut2	0.063	6.26	0.863	0.68	1888.460	8.12	15.994	7.82	18261.783	15.64	7660.10	16.25
PCT-01 rut4	1.541	4.00	0.835	1.62	75.509	4.18	0.660	4.12	3265.445	8.25	4404.13	8.35
PCT-01 rut5	13.354	9.38	0.763	6.26	7.646	11.78	0.072	10.76	449.157	21.52	2190.27	23.56
PCT-01 rut6	0.325	4.42	0.858	0.55	366.265	4.63	3.089	4.46	9078.834	8.92	5996.94	9.25
PCT-01 rut7	0.534	3.87	0.845	0.64	219.903	3.84	1.885	3.87	6830.395	7.75	5480.76	7.67
PCT-01 rut8	0.008	31.64	0.838	1.21	14579.326	21.23	122.741	22.33	31059.952	44.65	9734.91	42.46
PCT-02 rut1	1.162	4.37	0.853	0.92	101.678	4.44	0.863	4.41	4011.901	8.82	4702.85	8.88
PCT-02 rut2	0.592	3.72	0.857	0.68	202.957	3.78	1.704	3.78	6411.543	7.55	5399.71	7.56
PCT-02 rut3	0.430	3.58	0.852	0.45	275.101	3.62	2.342	3.60	7778.359	7.20	5707.23	7.25
PCT-02 rut4	0.458	3.79	0.845	0.73	256.899	3.71	2.204	3.77	7505.701	7.55	5637.99	7.41
PCT-02 rut5	0.505	3.64	0.856	0.51	235.702	3.65	1.998	3.65	7077.422	7.30	2550.90	7.30
PCT-02 rut6	220	4.19	0.846	0.66	120.429	4.26	1.034	4.32	4577.587	8.64	4873.16	8.51
PCT-02 rut7	1.960	3.83	0.846	0.45	29.707	3.91	0.515	3.90	2678.795	7.80	4169.22	7.83
PCT-02 rut8	11.469	3.53	908'0	0.49	9.725	3.60	0.088	3.57	541.929	7.14	2409.07	7.19
PCT-02 rut9	0.711	3.99	0.854	0.38	166.182	4.14	1.414	4.10	5682.139	8.21	5197.83	8.28
PCT-02 rut10	1.693	4.23	0.844	0.54	68.945	4.32	0.591	4.31	2995.357	8.62	4313.05	8.65
PC1-02 rut11	0.527	. y	0.850	0.65	225.076	4.03	1.923	3.92	6913.807	7.85	5504.26	8.06
PC1-02 rut12	1.067	3.83	0.848	0.48	109.664	3.88	0.939	3.87	4268.715	47.7	4778.90	97.7
PC1-02 rut13	2.952	94.4 84.4	0.04	0.43	45.507	20.4	0.391	4.52	2125.009	50.00	3030.00	9.00
PCT-02 nut15	2.032	8 6	0.850	0.00	155 OF 2	- u	1 321	59.5	2304.360	20.07	5127 70	7.34
PCT-02 rut16	0.782	3.56	0.850	0.51	151.346	3.62	1.292	3.61	5345.640	7.22	5103.47	7.23
PCT-02 rut17	1.297	3.64	0.848	0.37	90.162	3.68	0.772	3.67	3687.879	7.34	4582.06	7.37
PCT-02 rut19	1.383	4.00	0.840	0.80	84.371	3.84	0.731	3.92	3538.533	7.84	4515.42	7.68
PCT-02 rut20	0.568	5.99	0.851	0.35	206.803	5.84	1.768	5.78	6562.744	11.57	5418.69	11.68
PCT-02 rut21	0.831	3.90	0.850	0.54	142.087	3.91	1.211	3.93	5114.355	7.86	5039.81	7.81
PCT-02 rut22	0.272	5.69	0.858	0.41	435.442	5.28	3.685	5.20	9956.114	10.40	6172.17	10.56
PCT-02 rut23	0.380	3.60	0.863	0.75	317.249	3.63	2.663	3.61	8369.055	7.22	5851.49	7.26
PCT-02 rut24	1.502	3.64	0.847	0.36	77.749	3.68	999:0	3.67	3290.712	7.33	4433.44	7.35
PCT-02 rut25	0.371	3.65	0.845	0.57	314.606	3.72	2.707	3.70	8445.694	7.40	5843.02	7.43
PCT-02 rut26	0.193	3.65	0.853	0.39	809.609	3.68	5.184	3.67	11745.619	7.34	6513.13	7.37
PCT-02 rut28	0.473	5.03	0.848	0.40	247.900	4.78	2.124	4.72	7344.172	9.44	5601.92	9.55

Appendix B: Eastern Sunda arc geochronology data - rutile

Analysis ID	238U/206Pb ratio	18%	207Pb/206Pb ratio	18%	207Pb/235U (calc) ratio	18%	206Pb/238U ratio	18%	206Pb/238U Age (Ma)	2s%	207Pb/235U(calc) Age (Ma)	2s%
PCT-02 rut29	1.112	3.56	0.853	0.51	106.473	3.65	906.0	3.61	4157.687	7.21	4749.19	7.30
PCT-02 rut30	0.875	3.53	0.852	0.52	135.206	3.60	1.152	3.57	4940.623	7.14	4989.77	7.19
PCT-02 rut31	0.392	3.85	0.854	0.49	301.872	3.93	2.567	3.90	8198.844	7.80	5801.20	7.85
PCT-02 rut32	0.658	10.96	0.848	0.43	179.923	6.62	1.550	6.55	6033.451	13.10	5278.04	13.25
PCT-02 rut33	0.621	3.58	0.852	0.36	190.350	3.65	1.622	3.62	6212.767	7.24	5334.93	7.29
PCT-02 rut34	6.711	3.70	0.826	1.02	17.220	3.81	0.151	3.77	907.917	7.55	2947.16	7.62
PCT-02 rut36	1.389	3.58	0.844	09:0	84.153	3.64	0.723	3.63	3506.173	7.25	4512.82	7.28
SINA-02 rut1	0.375	3.57	0.843	0.45	312.968	3.61	2.688	3.59	8413.333	7.19	5837.73	7.21
SINA-02 rut3	0.035	6.20	0.844	0.53	3361.474	6.08	28.775	6.08	21876.902	12.16	8245.35	12.16
SINA-02 rut4	2.087	4.90	0.831	0.72	55.306	4.82	0.481	4.66	2533.315	9.32	4092.81	9.64
SINA-02 ruts	0.203	4.35 5.45	0.842	0.63	5/8.43/	4.19	4.964	4.28	11511.520	8.20	6459.93	3 33
SINA-02 ruto	0.050	5. c	0.853	4. C	107 003	3.09	20.220	5.03	19093.313	10.88	7590.10	7.50
SINA-02 rut9	1.321	3.68	0.831	22.0	87.391	373	0.593	3.75	3654 038	7.50	4550 71	7.46
SINA-02 rut10	0.112	4.47	0.856	0.52	1065,728	4.80	9,031	4.75	14863.325	9.51	7079.61	9.61
SINA-01 rut1	0.399	4.4	0.852	0.56	295.971	4.51	2.510	4.4	8093.776	8.88	5781.22	9.02
SINA-01 rut2	1.022	3.93	0.857	1.47	117.152	4.16	986.0	4.02	4421.999	8.05	4845.38	8.33
SINA-01 rut3	0.333	4.01	0.840	0.56	348.607	3.94	3.013	3.91	8958.176	7.82	5946.90	7.88
SINA-01 rut4	0.248	4.11	0.851	0.92	474.521	4.07	4.042	4.01	10428.585	8.01	6259.24	8.13
SINA-01 rut5	266.0	3.70	0.846	0.71	118.997	3.73	1.018	3.76	4524.857	7.51	4861.11	7.46
SINA-01 rut6	0.231	4.09	0.843	0.95	509.519	4.17	4.385	4.19	10853.660	8.37	6331.35	8.34
SINA-01 rut8	0.658	4.52	0.851	1.20	185.066	5.61	1.564	4.97	6070.276	9.94	5306.50	11.23
SINA-01 rut9	0.843	3.71	0.837	0.93	136.884	3.74	1.186	3.73	5040.727	7.46	5002.20	7.48
SINA-01 rut10	0.579	3.77	0.837	£.	202.266	3.81	1.749	3.80	6518.902	7.60	5396.27	7.62
LB043_rut_1	4.580	3.36	0.863	2.99	26.738	3.56	0.217	3.68	1267.109	7.36	3373.94	7.11
LB043_rut_11	33.860	5.19	0.808	2.68	3.341	4.49	0.029	4.70	187.287	9.41	1490.58	8.98
LB043_rut_12	0.038	3.73	0.835	0.56	3120.024	3.69	26.575	3.70	21382.069	7.40	8169.69	7.38
LB043_rut_13	8.542	7.43	0.812	2.10	13.466	6.54	0.119	6.24	725.253	12.47	2712.91	13.07
LB043_rut_14	0.007	11.75	0.820	1.29	17298.038	11.83	151.156	11.87	32392.514	23.75	9908.52	23.67
LB043_rut_15	29.528	6.10	0.800	3.58	3.787	2.97	0.035	2.87	218.915	11.73	1589.94	11.94
LB043_rut_16	3.084	4.82	0.878	4.16	40.075	4.72	0.328	5.53	1830.727	11.06	3772.55	9.43
LB043_rut_17	600.0	7.89	0.844	0.91	13451.138	7.90	115.711	7.88	30682.900	15.76	9653.14	15.79
LB043_rut_18	11.091	4.18	0.814	3.40	10.057	5.10	060:0	4.87	555.005	9.74	2440.02	10.19
LB043_rut_2	10.550	2.65	0.834	4.1	10.979	2.74	0.095	2.63	585.632	5.25	2521.37	5.48
LB043_rut_3	29.445	5. 5.	057:0	4. 4	3.535	7.32	0.034	7.02	786.660	40.4	1535.03	40.4
18043 nrt 5	29 845	- 6	0.791	2.03	3.725	0.08	0.130	, to	212 696	4 27 17	1576.72	11.52
LB043 rut 6	3.191	2.64	0.849	1.71	38.098	2.85	0.317	2.78	1772.783	5.57	3722.47	5.70
LB043_rut_7	257.687	15.56	0.519	24.32	0.286	18.86	0.004	16.08	24.438	32.16	255.35	37.71
LB043_rut_8	10.244	5.44	0.822	77.7	11.302	6.20	0.099	5.45	609.421	10.89	2548.37	12.39
LB043_rut_9	7.629	2.87	0.828	1.28	15.080	3.04	0.132	2.89	797.834	2.77	2820.32	6.07
LB044_rut_1	0.070	2.68	0.847	0.40	1694.946	2.65	14.404	2.61	17628.530	5.22	7550.39	5.30
LB044_rut_10	0.876	3.30	0.848	0.48	136.416	3.19	1.148	3.18	4928.331	6.36	4998.74	6.38
LB044_rut_12	0.019	2.74	0.847	0.32	6220.664	2.82	52.622	2.71	25669.335	5.42	8870.18	5.64
LB044_rut_13	30.653	90.9	0.725	7.77	3.310	6.55	0.033	7.23	209.166	14.47	1483.39	13.10
LB044_rut_14	0.050	4.86	0.839	0.52	2402.694	4.82	20.350	4.57	19732.718	9.14	7904.52	9.64
LB044_rut_15	0.401	2.44	0.845	0.38	294.074	2.44	2.499	2.42	8074.794	4.84	5774.71	4.87
LB044_rut_16	0.074	2.73	0.847	0.41	1592.990	2.65	13.547	2.57	17259.645	5.14	7487.43	5.30
LB044_rut_17	0.523	2.96	0.843	0.36	228.335	2.86	1.927	2.92	6923.765	5.84	5518.79	5.72
LB044_rut_2	980.0	2.81	0.841	0.35	1385.644	2.76	11.719	2.75	16393.922	5.49	7345.93	5.51

Appendix B: Eastern Sunda arc geochronology data - rutile

Analysis ID	238U/206Pb ratio	18%	207Pb/206Pb ratio	1s%	207Pb/235U (calc) ratio	15%	206Pb/238U ratio	1s%	206Pb/238U Age (Ma)	2s%	207Pb/235U(calc) Age (Ma)	2s%
LB044_rut_3	0.117	3.32	0.842	0.45	1001.112	3.40	8.520	3.32	14526.154	6.63	7016.16	6.79
LB044_rut_4	0.084	3.49	0.848	0.31	1382.699	3.95	11.845	3.82	16457.460	7.64	7343.78	7.90
LB044_rut_5	0.917	4.83	0.832	4.08	130.109	5.26	1.094	4.63	4765.534	9.26	4951.04	10.53
LB044_rut_6	0.596	2.95	0.841	0.74	197.156	3.14	1.696	2.99	6392.497	5.98	5370.42	6.27
LB044_rut_7	43.001	8.82	0.770	7.95	2.529	8.40	0.024	8.19	150.361	16.39	1280.32	16.79
LB044_rut_9	1.829	7.69	0.842	4.21	64.337	6.63	0.555	8.00	2844.693	15.99	4243.86	13.27
NEF-01_rut_10	61.814	2.18	0.794	5.55	1.813	6.87	0.016	5.56	105.366	11.12	1050.09	13.73
NEF-01_rut_11	19.518	6.67	0.765	6.38	5.537	8.51	0.052	6.46	326.764	12.91	1906.29	17.02
NEF-01_rut_12	37.333	4.29	0.772	4.37	2.917	5.03	0.027	5.17	173.330	10.35	1386.43	10.06
NEF-01_rut_13	44.946	4.12	0.770	4.79	2.407	2.00	0.022	2.01	142.407	10.03	1244.72	10.01
NEF-01_rut_14	20.349	4.40	0.812	2.03	5.640	4.79	0.050	4.95	311.971	68.6	1922.23	9.59
NEF-01_rut_15	14.932	4.77	0.845	2.18	7.987	5.34	0.067	5.26	418.449	10.52	2229.51	10.68
NEF-01_rut_16	9.454	4.30	0.831	2.06	12.555	4.96	0.107	4.40	654.084	8.79	2646.86	9.91
NEF-01_rut_17	19.108	4.33	0.832	3.32	6.083	3.92	0.052	4.50	329.577	9.01	1987.79	7.85
NEF-01_rut_18	18.436	5.29	0.821	2.34	6.132	5.82	0.055	5.87	342.993	11.74	1994.80	11.65
NEF-01_rut_19	23.576	2.80	0.822	1.82	4.785	2.83	0.043	2.87	269.556	5.75	1782.31	5.66
NEF-01_rut_2	65.355	10.75	0.795	8.61	1.695	7.59	0.015	96.9	96.932	13.96	1006.55	15.18
NEF-01_rut_20	147.320	9.84	0.862	12.92	0.832	9.59	2000	10.04	43.834	20.07	614.90	19.18
NEF-01_rut_21	25.635	3.79	22.0	3.98	4.384	4.29	0.040	4.67	251.699	9.34	1709.24	8.58
NEF-01_rut_22	72.330	6.14	0.822	5.48	1.617	6.58	0.014	7.35	88.222	14.70	86.98	13.17
NEF-01_rut_23	9.153	3.69	767.0	2.28	12.329	3.91	0.110	3.77	670.538	7.55	2629.81	7.83
NEF-01_rut_24	145.635	7.62	289.0	8.25	0.655	8.92	0.007	9.25	44.364	18.50	511.72	17.84
NEF-01_rut_3	16.170	3.55	0.798	2.63	6963	3.76	0.063	4.16	394.570	8.32	2107.42	7.53
NEF-01_rut_4	164.564	8.43	0.773	12.35	0.695	9.34	900:0	8.89	40.657	17.78	535.74	18.69
NEF-01_rut_5	163.788	6.58	0.668	90'6	0.571	7.01	900'0	6.83	39.229	13.66	458.90	14.02
NEF-01_rut_6	187.688	7.23	699.0	9.84	0.501	7.53	0.005	7.84	34.609	15.68	412.20	15.06
NEF-01_rut_7	32.617	3.88	0.803	4.31	3.540	3.82	0.031	4.77	197.247	9.55	1536.13	7.64
NEF-01_rut_8	59.669	6.09	0.823	4.74	3.886	6.40	0.034	5.45	216.641	10.89	1610.72	12.80
NEF-01_rut_9	75.021	4.88	0.655	6.39	1.232	5.83	0.013	4.84	85.785	69.6	815.36	11.65
NEF-03_rut_1	4.229	5.15	0.801	3.53	27.304	3.61	0.238	2.00	1377.567	10.00	3394.41	7.22
NEF-03_rut_10	18.503	3.38	0.785	3.37	2.990	3.45	0.055	3.79	342.342	7.57	1974.37	06.9
NEF-03_rut_11	22.399	4.11	0.769	5.05	4.857	4.10	0.045	4.50	281.834	9.01	1794.80	8.21
NEF-03_rut_12	12.177	3.47	0.780	3.45	8.755	4.62	0.083	3.77	512.282	7.54	2312.83	9.24
NEF-03_rut_13	17.700	4.49	0.817	5.18	6.521	5.11	0.057	4.58	358.837	9.16	2048.80	10.22
NEF-03_rut_14	21.631	4.37	0.828	4.91	5.371	4.37	0.047	4.45	297.242	8.83	1880.31	8.75
NEF-03_rut_15	36.342	7.93	0.743	10.10	2.997	8.58	0.028	8.05	178.740	16.10	1406.80	17.17
NEF-03_rut_16	34.263	5.96	0.785	8.24	3.310	7.22	0.029	6.18	187.034	12.36	1483.31	14.44
NEF-03_rut_2	3.548	3.35	0.834	2.31	33.412	3.21	0.284	3.38	1613.514	92.9	3592.84	6.42
NEF-03_rut_3	40.751	4.89	0.765	6.04	2.658	4.98	0.025	5.05	158.307	10.11	1316.87	96.6
NEF-03_rut_4	92.426	7.83	0.640	12.89	1.361	12.47	0.015	10.68	96.479	21.37	872.43	24.95
NEF-03_rut_5	10.314	3.84	0.831	3.38	11.362	4.44	860:0	4.26	602.180	8.52	2553.30	8.88
NEF-03_rut_6	29.693	4.27	0.818	4.94	3.919	4.40	0.034	4.58	213.309	9.17	1617.63	8.80
NEF-03_rut_7	88.6	3.92	0.772	3.12	11.108	3.67	0.102	4.00	623.715	7.99	2532.22	7.34
NEF-03_rut_8	43.126	3.92	0.787	3.66	2.528	4.20	0.023	4.41	147.361	8.82	1279.99	8.40
NEF-03_rut_9	18.024	4.45	0.834	6.17	6.567	5.58	0.056	4.44	352.930	8.89	2054.89	11.16
SEF-02_rut_1	32.170	14.56	0.629	20.66	2.768	20.56	0.032	18.68	202.600	37.36	1346.92	41.13
SEF-02_rut_2	3.669	6.20	0.842	2.48	31.858	6.34	0.274	6.45	1561.480	12.90	3545.91	12.68
SEF-02_rut_3	6.357	7.39	0.831	1.71	18.412	8.44	0.161	8.70	963.201	17.40	3011.51	16.87
SINA-04_rut_1	0.955	3.01	0.847	0.70	127.668	3.18	1.054	3.03	4639.210	6.07	4931.96	6.37
SINA-04_rut_2	0.154	8.74	0.849	0.74	783.684	7.73	6.619	7.97	13090.439	15.93	6767.81	15.45

Appendix B: Eastern Sunda arc geochronology data - rutile

SINA-04_rut_3	238U/206Pb ratio	18%	207 Pb/206Pb ratio	18%	207Pb/235U (calc) ratio	18%	206Pb/238U ratio	18%	206Pb/238U Age (Ma)	2s%	207Pb/235U(calc) Age (Ma)	2s%
	0.904	3.69	0.840	1.31	135.419	3.72	1.122	3.71	4849.753	7.42	4991.35	7.43
SINA-04_rut_4	0.742	3.22	0.844	1.10	158.322	3.35	1.359	3.31	5532.454	6.62	5148.94	6.71
SINA-04_rut_5	0.487	3.61	0.836	1.72	239.866	3.68	2.072	3.66	7235.011	7.31	5568.61	7.36
SINA-04_rut_6	0.431	5.13	0.835	0.80	271.977	5.99	2.378	5.93	7847.873	11.86	5695.68	11.99
SINA-04_rut_7	0.126	3.93	0.848	0.36	935.014	3.76	7.981	3.66	14150.883	7.32	6946.88	7.51
SINA-04_rut_8	0.732	99.9	0.844	0.94	160.078	5.96	1.381	6.11	5592.166	12.23	5160.06	11.91
SINA-05_rut_1	1.315	3.08	0.855	1.02	93.057	3.04	0.764	3.02	3659.787	6.03	4613.80	6.08
SINA-05_rut_2	0.038	5.31	0.845	0.35	3106.183	5.62	26.640	5.61	21397.247	11.21	8165.18	11.23
SINA-05_rut_3	0.648	3.74	0.820	0.95	176.617	3.77	1.550	3.77	6033.839	7.55	5259.31	7.54
SING-01_rut_1	16.647	6.50	0.815	4.40	6.975	8.66	0.062	7.48	384.795	14.96	2108.23	17.32
SING-01_rut_2	397.823	6.63	0.152	14.61	0.053	13.63	0.003	7.38	16.159	14.75	52.30	27.26
SING-01_rut_3	4.360	4.38	0.857	2.60	27.741	4.40	0.233	4.37	1351.621	8.74	3409.99	8.80
SING-02_rut_10	10.156	5.14	0.815	4.55	11.266	4.92	0.100	6.56	612.649	13.12	2545.36	9.85
SING-02_rut_11	8.634	5.24	0.835	2.12	13.542	5.77	0.116	5.90	706.163	11.80	2718.20	11.54
SING-02_rut_12	8.089	4.78	0.820	2.06	14.102	5.35	0.124	5.44	754.002	10.88	2756.58	10.70
SING-02_rut_13	13.976	4.77	0.837	8.16	8.354	7.62	0.073	5.29	452.489	10.58	2270.21	15.24
SING-02_rut_14	17.629	5.33	0.840	4.51	6.704	4.33	0.057	5.86	359.139	11.72	2073.16	8.66
SING-02_rut_15	19.452	4.16	1277	4.27	5.494	4.89	0.052	4.24	324.275	8.48	1899.68	9.78
SING-02_rut_2	8.416	5.45	0.825	3.05	13.546	5.13	0.119	5.29	724.870	10.57	2718.49	10.25
SING-02_rut_3	18.856	4.80	0.783	3.44	5.708	5.29	0.053	5.65	332.600	11.30	1932.61	10.58
SING-02_rut_4	4.211	3.34	0.836	1.48	27.555	3.32	0.238	3.37	1376.921	6.75	3403.41	6.63
SING-02_rut_5	18.549	3.88	96.70	3.22	5.976	4.20	0.054	4.06	341.181	8.11	1972.40	8.39
SING-02_rut_6	7.831	5.09	0.829	2.29	14.953	5.30	0.131	6.05	792.571	12.09	2812.27	10.61
SING-02_rut_7	36.116	3.51	0.802	3.70	3.158	3.62	0.028	3.52	177.025	7.05	1446.90	7.24
SING-02_rut_8	13.810	60.9	0.734	6.16	7.326	5.62	0.072	7.53	445.211	15.06	2152.01	11.25
SING-02_rut_9	9.446	3.68	962'0	3.95	11.751	4.03	0.107	3.91	653.990	7.82	2584.78	8.05
TR-04_rut_1	1.140	4.29	0.835	1.27	102.984	4.24	0.891	4.39	4105.931	8.78	4715.68	8.48
TR-04_rut_10	0.838	2.56	0.826	0.77	139.664	2.52	1.199	2.52	5080.909	5.05	5022.46	5.04
TR-04_rut_2	1.104	3.13	0.838	1.35	106.033	3.32	0.912	3.16	4179.040	6.33	4745.03	6.64
TR-04_rut_3	1.474	7.71	0.793	1.77	75.622	7.43	0.691	7.68	3386.017	15.35	4405.63	14.87
TR-04_rut_4	1.177	4.45	0.865	3.31	106.452	4.54	0.883	5.19	4080.990	10.39	4748.99	9.08
TR-04_rut_5	1.027	4.33	0.825	1.42	111.874	4.31	0.985	4.18	4420.516	8.36	4798.97	8.62
TR-04_rut_6	0.809	4.06	0.835	1.29	144.193	3.76	1.245	3.91	5214.264	7.82	5054.64	7.52
TR-04_rut_7	2.716	3.37	0.823	<u>4</u>	41.944	3.37	0.370	3.51	2027.831	7.02	3817.74	6.73
TR-04_rut_8	2.257	3.92	0.826	<u>4</u>	51.380	4.00	0.453	4.23	2406.575	8.45	4019.41	7.99
TR-04_rut_9	2.011	3.69	0.834	1.56	57.708	3.53	0.500	3.72	2615.887	7.45	4135.22	7.06
TR-05_rut_1	1.375	5.51	0.846	5.46	85.626	5.70	0.729	5.60	3529.784	11.20	4530.23	11.41
TR-05_rut_2	0.719	3.41	0.822	1.57	160.502	3.63	1.410	3.39	5669.183	6.78	5162.73	7.25
TR-05_rut_3	0.688	7.62	0.831	1.90	167.335	6.38	1.464	6.41	5812.572	12.81	5204.81	12.76
TR-05_rut_4	0.378	6.62	0.836	0.68	308.936	5.55	2.681	5.32	8401.291	10.64	5824.61	11.11
TR-05_rut_5	0.827	6.45	0.839	1.96	142.085	7.90	1.198	7.81	5077.838	15.62	5039.79	15.81
UG012183_rut_1	16.030	2.07	0.779	2.57	6.812	5.84	0.063	5.23	395.385	10.46	2087.23	11.68
UG012183_rut_10	11.675	4.68	908.0	4.94	9.615	4.82	0.087	4.79	535.154	9.58	2398.59	9.64
UG012183_rut_11	152.472	6.55	0.861	8.26	0.784	8.08	0.007	7.10	42.397	14.20	587.80	16.15
UG012183_rut_12	5.513	7.79	0.834	2.56	21.324	6.58	0.186	7.31	1099.759	14.62	3153.42	13.16
UG012183_rut_13	11.450	6.82	0.947	7.05	11.402	6.68	0.086	8.29	532.935	16.58	2556.55	13.36
UG012183_rut_14	4.282	2.88	0.818	2.05	26.835	3.10	0.237	3.08	1371.861	6.16	3377.46	6.19
UG012183_rut_15	992.9	4.38	0.810	2.46	16.576	5.08	0.148	4.63	889.345	9.27	2910.62	10.15
UG012183_rut_16	92.756	5.39	0.788	3.83	16.219	6.15	0.151	5.95	907.523	11.91	2889.81	12.30
UG012183_rut_17	17.379	6.57	0.785	3.85	6.131	6.19	0.057	5.50	354.320	10.99	1994.67	12.38

Appendix B: Eastern Sunda arc geochronology data - rutile

238U/206Pb ratio		1s%	207 Pb/206Pb ratio	1s%	207Pb/235U (calc) ratio	18%	206Pb/238U ratio	1s%	206Pb/238U Age (Ma)	2s%	207Pb/235U(calc) Age (Ma)	2s%
3.185 4.84 0.839 3.56	0.839		3.56		36.043	5.58	0.312	5.13	1750.928	10.26	3667.65	11.15
7.01 0.830	0.830		2.42		20.110	6.91	0.175	6.73	1041.626	13.45	3096.68	13.83
3.65 0.851 1.61	0.851 1.61	1.61			18.429	3.63	0.157	3.71	938.488	7.43		7.27
616.410 23.98 0.157 56.77 < DL 23.614 11.25 0.809 6.50	0.157 56.77 0.809 6.50	56.77		7	4 769	51.70	0.002	23.96	10.308	47.92	< DL 1779 48	103.39
8.29 0.841	0.841		7.19		11.712	8.50	0.101	9.40	622.139	18.80	2581.64	17.00
3.75 0.797	767.0		3.16		6.783	4.36	0.062	3.87	386.601	7.74	2083.45	8.71
4.595 4.41 0.828 2.41 11.374 4.04 0.789 2.88	0.828		2.41		25.146 9.648	3.47	0.218	4.27	1272.951	8.55 8.82	3313.90	6.94
7.64 0.817	0.817		4.65		9.856	6.85	0.087	7.64	539.296	15.29	2421.43	13.71
31.275 6.90 0.783 7.22	0.783		7.22		3.463	7.62	0.032	6.31	201.541	12.61	1518.80	15.24
5.41 0.831	0.831		4.69		12.398	6.45	0.110	7.45	673.636	14.91	2635.02	12.90
5.08 0.921	0.921		3.81		53.226	6.20	0.418	5.13	2249.561	10.25	4054.59	12.40
7.42 0.804	0.804		3.31		23.589	6.39	0.204	7.20	1199.079	14.40	3251.58	12.78
8.695 4.16 0.873 3.56	0.873		3.56		13.975	4.46	0.115	4.52	640 592	9.04	2/4/.99	8.93
7.16	0.55		8.90		6.341	70.07	0.104	 	364 550	16.31	2033.10	14 11
7.32 0.830	0.830		2.89		15.766	7.27	0.138	7.30	834.753	14.59	2862.70	14.54
4.12 0.830	0.830		3.49		19.321	4.26	0.164	4.64	976.708	9.29	3058.00	8.52
9.76 0.763	0.763		13.11		0.501	69.6	0.005	9.61	30.857	19.21	412.56	19.39
2.56 0.833	0.833		0.70		35.808	2.55	0.311	2.53	1746.837	5.06	3661.17	5.11
6.28 0.805	0.805		2.99		23.074	5.29	0.208	6.84	1219.591	13.68	3230.06	10.59
2.896 6.83 0.853 2.82	0.853		2.82		42.473	7.07	0.356	7.86	1963.133	15.71	3830.17	7 44
5.22	0.826		232		36.597	5.72	0.788	5.34	3/45.388	10.63	3682 71	12.13
2.63 0.835	0.835		1.62		36.661	2.78	0.310	2.64	1742.862	5.28	3684.44	5.55
4.56 0.845	0.845		2.60		46.618	4.59	0.396	4.88	2152.399	9.76	3922.65	9.19
2.75 0.849	0.849		0.64		47.813	2.69	0.408	2.68	2207.818	5.36	3947.80	5.38
	0.853		0.68		58.782	2.43	0.496	2.39	2595.197	4.79	4153.64	4.86
	0.837		1.25		78.624	3.42	62970	3.42	3342.169	6.84	4444.66	6.84
2.71 0.828	0.828		1.41		60.335	2.68	0.511	2.75	2662.903	5.51	4179.67	5.36
2.88 0.843	0.843		0.83		99.063	2.96	0.835	2.93	3913.773	5.86	4676.65	5.93
	0.833		1.01		44.427	3.61	0.378	3.52	2066.811	7.03	3874.80	7.22
15.04	0.083		22.41		0.514	84.4 84.4 80	400.0	4.32	32 040	0.00	2030.02	32.46
7.84	0.745		6.56		4.704	7.31	0.046	7.06	288.242	14.11	1767.90	14.62
0.809	0.809		2.24		55.423	4.95	0.497	4.46	2601.654	8.92	4094.91	9.91
16.98 1.402	1.402		20.29		17.117	13.44	060:0	17.36	553.814	34.71	2941.41	26.87
6.30 0.779	0.779		7.68		5.166	6.26	0.048	6.25	302.206	12.51	1847.00	12.52
6.41 0.820	0.820		5.28		8.380	5.26	0.074	6.88	460.355	13.75	2272.97	10.52
4.30 0.824	0.824		3.02		58.509	4.51	0.514	4.32	2675.604	8.64	4148.99	9.02
3.54 0.834	0.834		1.02		77.214	3.37	0.661	3.26	3271.133	6.51	4426.51	6.74
1.147	1.147		32.88		12.182	22.30	220.0	26.69	479.416	53.38	2618.50	44.60
6.04 0.776	0.776		4.29		50.319	5.44	0.470	6.23	2484.207	12.46	3998.64	10.89
7.11 0.831	0.831		6.56		32.598	6.03	0.282	7.88	1601.060	15.77	3568.54	12.06
0.830	0.830		0.82		20.106	2.67	0.173	2.57	1028.382	5.15	3096.48	5.35
5.48	0.825		6.45		1.339	5.38	0.012	5.62	75.009	11.24	862.88	10.76
7.533 6.08 0.736 5.33	0.736		5.33		13.546	6.52	0.133	5.96	800.058	11.92	2718.52	13.03
6.520 6.81 0.743 6.42	0.743		6.42		15.915	7.64	0.155	7.39	929.307	14.78	2871.71	15.27

Appendix B: Eastern Sunda arc geochronology data - rutile

238U/206Pb ratio	atio	15%	207Pb/206Pb ratio	18%	207Pb/235U (calc) ratio	18%	206Pb/238U ratio	18%	206Pb/238U Age (Ma)	2s%	207Pb/235U(calc) Age (Ma)	2s%
2.715 3.33	3.33		0.838	0.86	42.927	3.52	0.369	3.33	2025.432	6.65	3840.71	7.04
	96.9		0.853	1.68	96.429	90.9	0.797	5.83	3777.201	11.67	4649.56	12.15
	2.95		0.817	1.99	9.722	3.51	0.087	3.08	540.344	6.15	2408.76	7.02
40.986 7.84	7.84		0.702	6.25	2.431	9.18	0.024	9.03	155.337	18.07	1251.86	18.36
<u>6</u> 68 6			0.832	1.65	17.604	7.39	0.152	7.19	914.032	14.39	2968.37	14.78
4.42		0	0.858	3.11	11.078	4.81	0.091	4.95	561.721	9.89	2529.67	9.61
3.62		.0	0.827	2.44	13.716	3.52	0.119	3.68	727.260	7.35	2730.32	7.05
8.61		0.8	0.855	1.34	21.774	9.41	0.181	9.38	1071.316	18.76	3173.71	18.82
3.65		8.0	22	2.02	21.432	3.56	0.180	3.98	1065.435	7.96	3158.35	7.13
5.47		0.78%	OI .	2.86	9.154	5.88	0.084	6.01	517.247	12.02	2353.50	11.75
6.33		0.932		7.95	1.153	5.81	600:0	6.38	57.059	12.77	778.44	11.62
0.273 6.05 0.043		0.813		3.01	10.105	80.21	0.089	07.7	296.210	24.52	77 6026	75.00
		0.830		2 7	68 837	8.33	91-0	3.61	3024 644	7.22	431148	7.39
2000		0.805		5. 5.	64 987	3.07	925.0	3.13	2931 949	6.25	4253.91	6.13
020		0.842		1.76	77.286	10.07	0.650	8.71	3229.730	17.42	4427.45	20.14
11.86		0.835		16.21	0.624	11.43	900:0	12.07	35.822	24.14	492.59	22.86
		0.812		3.34	5.006	5.66	0.044	5.28	275.457	10.56	1820.30	11.31
0.588 8.88 0.833		0.833		1.84	202.262	7.85	1.701	7.71	6404.615	15.42	5396.25	15.70
4.435 7.75 0.820		0.820		1.94	26.335	8.44	0.228	7.92	1322.218	15.83	3359.04	16.88
		0.817		4.03	7.809	7.41	0.067	7.92	418.044	15.84	2209.22	14.83
3.758 3.72				1.43	29.979	4.04	0.265	3.71	1514.289	7.41	3486.12	8.07
.,		< DL		40.92	0.121	26.02	0.001	31.53	5.068	63.06	116.36	52.04
4.95		0.848		3.03	33.633	4.72	0.278	2.07	1583.286	10.14	3599.35	9.43
5.76		0.816		2.50	20.650	7.21	0.186	6.93	1100.044	13.86	3122.32	14.42
4.48		0.771		2.96	8.863	4.57	0.081	4.89	501.922	9.79	2323.98	9.12
308.331 17.01 0.584		0.584		26.55	0.263	14.35	0.003	12.68	20.487	25.36	236.92	28.70
7.58		0.867		2.66	18 782	9.48	0.152	8.39	913.456	16.78	3030 71	18.97
4.60		0.893		3.47	11.252	6.27	0.089	4.89	547.759	9.78	2544.21	12.54
7.78		0.744		10.03	1.410	7.70	0.014	8.17	87.648	16.34	893.31	15.40
20.6		0.846		2.06	49.148	8.89	0.411	8.73	2219.079	17.47	3975.20	17.78
9.21		0.78	OI.	8.29	8.175	96.6	0.076	9.63	473.686	19.25	2250.57	19.92
5.30		0.751		5.34	2.472	4.50	0.023	5.33	148.787	10.66	1263.77	9.00
6.36		0.855		2.54	30.430	6.44	0.257	6.26	1476.360	12.53	3500.81	12.89
17.12		0.747		65.26	3.313	10.33	0.032	7.03	205.551	14.07	1484.04	20.65
4.99		0.799		4.69	15.796	6.54	0.140	5.50	844.731	10.99	2864.53	13.09
3.79		0.819		4.75	20.928	4.10	0.178	4.26	1058.346	8.53	3135.26	8.20
4.17		0.782		3.23	21.916	4.03	0.197	4.51	1161.712	9.02	3180.03	8.06
4.89		0.833		3.06	49.352	5.10	0.429	5.18	2302.715	10.37	3979.33	10.20
4.19		0.833		1.81	86.146	3.40	0.737	3.51	3558.916	7.02	4536.31	6.80
		0.851		1.56	808.69	5.06	0.596	5.14	3014.294	10.27	4325.50	10.13
17.74		0.236		34.61	0.209	30.35	900'0	17.18	41.647	34.37	192.64	60.70
12.17		0.74		13.97	2.364	14.29	0.023	11.51	147.264	23.01	1231.70	28.57
		0.8	32	2.79	30.427	4.42	0.266	3.94	1518.175	7.88	3500.71	8.83
20.982 7.47 0.		0.	0.922	8.74	6.383	8.38	0.048	10.24	304.397	20.48	2029.93	16.76
7.68		0.8	23	3.96	14.797	7.12	0.127	7.11	769.312	14.23	2802.30	14.23
		0.81	6	2.22	26.818	3.65	0.231	4.14	1341.954	8.28	3376.83	7.29
7.305 3.72 0.806		08.0	9	2.90	15.383	3.33	0.138	3.96	834.555	7.91	2839.23	6.65

Appendix B: Eastern Sunda arc geochronology data - rutile

Analysis ID	238U/206Pb ratio	18%	207Pb/206Pb ratio	18%	207Pb/235U (calc) ratio	15%	206Pb/238U ratio	18%	206Pb/238U Age (Ma)	2s%	207Pb/235U(calc) Age (Ma)	Age (Ma)	2s%
UG012189_rut_7	31.552	23.35	0.789	11.98	3.600	17.57	0.031	18.82	199.201	37.63		1549.61	35.14
UG012189_rut_8	9.792	5.76	0.839	2.45	11.945	4.54	0.102	4.53	628.121	9.05		2600.08	60.6
UG012189_rut_9	3.240	3.91	0.798	3.22	32.813	4.32	0.308	4.35	1731.017	8.70		3575.01	8.64
UG012191_rut_1	2.590	4.63	0.837	1.35	45.417	5.43	0.388	5.33	2115.254	10.65		3896.69	10.86
UG012191_rut_10	8.856	3.55	0.828	1.87	12.788	3.81	0.114	3.56	693.814	7.11		2664.16	7.61
UG012191_rut_12	19.365	4.59	0.842	2.74	6.122	4.89	0.052	4.46	326.459	8.91		1993.43	9.79
UG012191_rut_13	5.160	9.6	0.842	1.31	22.768	8.13	0.195	7.12	1150.664	0.43		3217.10	7.35
UG012191 rut 15	2.726	6.32	0.820	; <u>†</u>	42.360	7.44	0.369	7.39	2022.838	14.79		3827.54	14.88
UG012191 rut 16	29.506	7.09	0.739	9.38	3.654	7.15	0.034	8.23	212.653	16.47		1561.33	14.30
UG012191_rut_18	18.891	7.56	0.751	3.74	5.450	11.72	0.052	14.01	326.330	28.01		1892.77	23.45
UG012191_rut_19	684.219	9.03	0.617	12.82	0.126	9.77	0.001	9.03	9.403	18.06		120.14	19.55
UG012191_rut_20	1.271	2.87	0.824	0.98	89.182	3.00	0.785	2.91	3736.565	5.81		4571.08	5.99
UG012191_rut_21	4.044	5.66	0.847	1.4	28.854	5.72	0.246	5.96	1417.036	11.93		3448.56	11.44
UG012191_rut_22	13.348	3.94	0.863	3.96	9.191	4.06	0.075	4.31	468.391	8.61		2357.17	8.13
UG012191_rut_23	561.002	17.87	0.735	23.16	0.189	16.63	0.002	17.64	10.876	35.28		175.64	33.26
UG012191_rut_24	15.326	5.02	0.824	5.81	7.747	4.22	0.065	5.78	404.927	11.55		2202.11	8.45
UG012191_rut_25	20.139	10.12	0.731	4.05	5.191	7.73	0.051	8.20	319.677	16.40		1851.16	15.47
UG012191_rut_26	37.742	7.42	0.784	8.65	3.046	06.90	0.027	7.49	173.187	14.98		1419.26	13.81
UG012191_rut_27	0.293	3.05	0.863	1.40	403.679	2.81	3.449	2.86	9622.856	5.71		6095.44	5.62
UG012191_rut_28	2.035	6.22	0.818	1.27	55.355	5.64	0.492	5.58	2578.054	11.15		4093.69	11.29
UG012191_rut_3	23.982	5.99	0.860	2.59	4.920	5.38	0.042	5.46	262.781	10.91		1805.62	10.75
UG012191_rut_3	11.648	6.89	0.834	2.57	10.074	7.24	0.088	8.03	544.799	16.06		2441.62	14.47
UG012191_rut_4	10.154	4.73	0.831	2.42	11.660	4.94	0.100	4.61	613.056	9.23		2577.51	9.87
UG012191_rut_5	262.243	13.82	0.693	19.65	0.371	14.38	0.004	13.89	24.583	27.78		320.74	28.76
UG012191_rut_6	25.729	10.16	0.808	3.94	4.435	7.45	0.040	8.08	249.863	16.17		1718.81	14.91
UG012191_rut_7	0.148	11.63	0.843	0.64	784.995	7.63	6.774	7.59	13219.957	15.18		6769.51	15.26
UG012191_rut_8	212.427	16.26	0.583	24.34	0.399	18.43	0.005	17.37	29.306	34.74		340.70	36.86
UG012191_rut_9	28.085	2.57	0.779	8.16	3.967	5.51	90.036	7.18	229.424	14.37		1627.44	11.01
UG012192_rut_1	3.234	8.16	0.817	1.47	36.030	7.87	0.314	7.79	1759.260	15.59		3667.28	15.73
UG012192_rut_10	1.675	6.23	0.843	1.72	73.312	6.44	0.597	6.81	3016.474	13.63		4374.55	12.88
UG012192_rut_11	2.918	3.42	0.843	1.08	41.438	3.58	0.346	3.78	1914.871	7.55		3805.71	7.17
UG012192_rut_12	1.175	9.47	0.824	2.58	104.296	9.16	0.877	10.31	4058.668	20.62		4728.41	18.31
UG012192_rut_13	0.273	17.81	0.831	1.24	427.421	14.94	3.537	15.34	9749.314	30.69		6153.33	29.88
UG012192_rut_14	1.964	3.40	0.832	0.85	29.898	3.42	0.513	3.44	2670.431	6.87		4172.42	6.83
UG012192_rut_2	10.534	6.61	0.793	2.81	11.190	7.62	860.0	7.98	603.470	15.97		2539.07	15.24
UG012192_rut_3	1.971	3.77	0.836	1.29	29.960	3.36	0.508	3.74	2648.388	7.48		4173.44	6.72
UG012192_rut_4	8.971	3.45	0.800	1.58	12.152	3.72	0.110	3.59	672.202	7.18		2616.23	7.45
UG012192_rut_6	0.318	3.89	0.831	0.70	371.931	4.43	3.176	4.16	9213.411	8.31		6012.48	8.86
UG012192_rut_7	13.700	3.81	0.805	1.86	8.270	4.17	0.074	4.03	458.634	8.06		2261.01	8.34
UG012192_rut_8	8.280	9.78	0.816	1.88	13.382	11.29	0.122	11.38	740.094	22.75		2706.98	22.58
UG012192_rut_9	16.886	8.54	0.831	5.10	6.771	11.67	0.058	10.06	364.799	20.12		2081.89	23.34
UG012194_rut_1	3.763	4.78	0.870	3.37	32.146	4.42	0.268	4.98	1533.111	96.6		3554.78	8.84
UG012194_rut_10	45.773	4.54	0.779	3.96	2.377	4.86	0.022	4.49	139.377	8.97		1235.82	9.72
UG012194_rut_11	7.159	3.54	0.826	2.71		3.76	0.142	3.85	854.437	7.69		2882.57	7.52
UG012194_rut_12	1442.573	9.84	^ DΓ	25.28	^DΓ	23.64	0.001	9.82	4.512	19.64	<b>√</b> DΓ		47.29
UG012194_rut_13	7.391	5.73	962.0	2.90	15.312	7.58	0.140	8.53	846.476	17.07		2834.82	15.16
UG012194_rut_14	3.943	3.41	0.823	1.14	28.970	3.43	0.256	3.33	1468.665	99.9		3452.50	98.9
UG012194_rut_15	12.295	5.02	0.800	1.95	9.047	5.33	0.082	4.91	507.277	9.82		2342.80	10.67
UG012194_rut_2	2.033	6.72	0.808	1.61	55.961	6.18	0.499	6.30	2607.569	12.59		4104.55	12.35

Appendix B: Eastern Sunda arc geochronology data - rutile

Analysis ID	238U/206Pb ratio	18%	207Pb/206Pb ratio	18%	207Pb/235U (calc) ratio	18%	206Pb/238U ratio	18%	206Pb/238U Age (Ma)	2s%	207Pb/235U(calc) Age (Ma)	2s%
UG012194_rut_3	14.951	4.62	0.827	5.55	7.873	4.52	0.067	4.76	420.988	9.52	2216.60	9.04
UG012194_rut_4	1.786	5.55	0.844	1.55	67.530	5.21	0.561	5.45	2871.932	10.90	4292.30	10.41
UG012194_rut_5	8.521	3.07	0.844	1.34	13.946	3.01	0.118	3.08	719.137	6.15	2746.06	6.02
UG012194_rut_6	19.422	3.36	0.823	2.03	5.954	3.58	0.052	3.70	328.416	7.39	1969.16	7.16
UG012194_rut_7	38.810	4.57	0.820	4.68	2.927	5.35	0.026	5.20	164.577	10.40	1388.81	10.69
UG012194_rut_8	0.447	5.19	0.818	1.15	253.545	5.11	2.252	5.32	7602.386	10.65	5624.69	10.21
UG012194_rut_9	4.295	5.55	0.852	1.95	27.868	6.75	0.237	6.43	1369.747	12.87	3414.48	13.51
UG012199_rut_1	0.581	3.79	0.837	1.63	200.489	3.94	1.736	3.71	6488.354	7.42	5387.36	7.88
UG012199_rut_10	1.281	3.03	0.801	2.65	89.078	3.02	0.783	3.33	3728.909	6.65	4569.91	6.05
UG012199_rut_11	3.153	3.13	0.847	2.42	37.904	3.16	0.321	3.22	1792.526	6.44	3717.42	6.31
UG012199_rut_12	0.370	3.73	0.834	1.19	315.774	3.71	2.743	3.46	8508.472	6.92	5846.77	7.41
UG012199_rut_2	1.759	4.64	0.802	3.36	63.379	5.88	0.576	4.70	2930.753	9.40	4228.86	11.76
UG012199_rut_3	2.369	3.64	0.827	2.58	48.636	3.68	0.426	3.68	2289.818	7.36	3964.79	7.36
UG012199_rut_4	1.422	3.04	0.819	1.61	79.081	3.04	0.708	3.01	3450.749	6.03	4450.46	6.09
UG012199_rut_5	2.846	2.63	0.822	1.46	40.421	2.64	0.355	2.63	1957.291	5.27	3781.07	5.27
UG012199_rut_6	2.997	3.32	0.821	1.78	37.960	3.33	0.336	3.26	1865.967	6.51	3718.87	6.65
UG012199_rut_8	1.871	4.36	0.819	1.61	61.089	4.52	0.542	4.69	2790.970	9.38	4192.09	9.04
UG012199_rut_9	1.177	4.35	0.828	1.32	94.866	4.46	0.858	4.28	3992.954	8.56	4664.44	8.92
UG012200_rut_1	5.328	3.53	0.823	1.36	21.234	3.73	0.187	3.66	1106.733	7.32	3149.31	7.46
UG012200_rut_10	16.507	4.62	0.824	4.01	7.225	4.64	090:0	5.31	377.933	10.62	2139.55	9.27
UG012200_rut_11	1.701	4.29	0.815	1.86	64.994	3.89	0.585	3.93	2971.058	7.85	4254.01	7.79
UG012200_rut_12	2.464	4.73	0.817	1.70	45.859	4.79	0.408	4.78	2207.204	9.55	3906.32	9.58
UG012200_rut_13	61.473	4.57	0.762	5.54	1.751	4.56	0.017	4.57	105.671	9.13	1027.65	9.12
UG012200_rut_14	1.426	4.10	0.826	1.57	81.217	3.95	0.708	3.88	3450.202	7.76	4477.19	7.89
UG012200_rut_15	6.251	3.76	0.779	2.53	17.726	4.23	0.162	4.11	965.823	8.21	2974.99	8.45
UG012200_rut_16	2.634	5.12	0.856	2.05	47.463	4.27	0.388	4.85	2115.571	69.6	3940.50	8.54
UG012200_rut_17	2.157	2.67	0.858	2.68	26.558	5.78	0.465	5.65	2460.663	11.29	4115.14	11.56
UG012200_rut_18	4.532	4.52	0.800	4.04	25.488	4.41	0.221	4.80	1288.901	9.60	3327.09	8.81
UG012200_rut_19	3.563	3.48	0.849	1.57	33.351	3.42	0.283	3.59	1608.594	7.17	3591.04	6.84
UG012200_rut_2	1.529	2.95	0.830	2.30	78.278	2.99	099'0	2.85	3265.606	5.70	4440.23	5.98
UG012200_rut_20	4.675	7.70	0.826	2.79	24.648	9.50	0.213	9.57	1246.375	19.14	3294.36	19.01
UG012200_rut_21	2.628	4.55	0.827	3.77	44.924	4.87	0.380	4.52	2077.289	9.04	3885.85	9.75
UG012200_rut_22	27.457	6.11	0.805	6.85	4.171	7.28	0.037	8.10	236.627	16.20	1668.36	14.56
UG012200_rut_23	7.415	6.42	0.824	5.51	16.016	7.35	0.137	7.38	827.500	14.77	2877.73	14.70
UG012200_rut_24	4.563	2.90	0.813	1.48	24.777	3.15	0.218	3.09	1272.282	6.18	3299.47	6.31
UG012200_rut_25	13.415	3.59	0.815	1.62	8.422	3.95	0.074	3.99	462.616	7.97	2277.55	7.90
UG012200_rut_26	4.154	2.91	0.846	1.42	28.425	3.17	0.242	3.08	1395.443	6.16	3433.87	6.35
UG012200_rut_27	4.458	4.79	0.807	3.02	25.465	5.85	0.229	6.26	1327.280	12.53	3326.20	11.70
UG012200_rut_28	0.450	7.45	0.840	1.30	265.018	6.82	2.247	6.79	7592.527	13.57	5669.46	13.65
UG012200_rut_29	0.622	4.74	0.852	1.09	195.177	5.26	1.624	5.08	6219.083	10.16	5360.23	10.51
UG012200_rut_3	7.537	3.37	0.829	3.24	15.587	3.69	0.133	3.52	806.273	7.04	2851.82	7.39
UG012200_rut_30	4.681	7.81	0.780	3.78	23.788	8.45	0.214	7.68	1251.817	15.36	3259.73	16.90
UG012200_rut_4	35.999	8.32	0.795	5.64	3.205	13.41	0.027	10.72	169.750	21.43	1458.37	26.83
UG012200_rut_5	0.552	3.11	0.836	0.91	213.871	3.22	1.829	3.06	6704.357	6.12	5452.65	6.43
UG012200_rut_6	0.819	4.08	0.842	0.85	144.465	4.52	1.235	4.55	5184.826	9.10	5056.54	9.03
UG012200_rut_7	5.551	2.77	0.853	5.09	21.104	2.77	0.181	2.84	1073.725	5.69	3143.36	5.54
UG012200_rut_8	13.050	3.77	0.832	1.38	8.861	4.00	0.077	3.94	476.780	7.87	2323.80	8.00
UG012200_rut_9	1.392	8.94	0.815	2.62	87.367	9.13	0.742	10.10	3576.344	20.21	4550.44	18.27
UG012201_rut_1	63.382	4.26	0.729	3.70	1.593	4.66	0.016	4.69	101.260	9.38	967.61	9.32
UG012201_rut_10	57.391	13.63	0.808	4.14	1.937	7.39	0.017	6.95	110.976	13.89	1094.04	14.78

Appendix B: Eastern Sunda arc geochronology data - rutile

Analysis ID	238U/206Pb ratio	18%	207Pb/206Pb ratio	18%	207Pb/235U (calc) ratio	18%	206Pb/238U ratio	18%	206Pb/238U Age (Ma)	25%	207Pb/235U(calc) Age (Ma)	2s%
UG012201_rut_2	391.428	8.79	0.299	15.84	0.105	13.70	0.003	8.96	16.317	17.91	101.22	27.41
UG012201_rut_3	305.935	9.94	0.370	20.16	0.168	14.91	0.003	9.98	21.173	19.95	157.74	29.83
UG012201_rut_4	248.816	6.56	0.561	8.93	0.313	7.36	0.004	7.50	25.995	15.00	276.42	14.72
UG012201_rut_5	142.598	7.45	0.723	11.15	0.708	11.14	0.007	7.45	45.675	14.89	543.66	22.29
UG012201_rut_6	59.429	2.07	0.791	06.9	1.851	5.94	0.017	5.76	108.374	11.53	1063.65	11.88
UG012201_rut_7	221.520	41.02	0.595	49.98	0.339	16.65	0.004	25.26	27.038	50.51	296.48	33.30
UG012201_rut_8	454.279	10.15	0.360	14.99	0.110	12.66	0.002	9.04	14.133	18.08	105.54	25.31
UG012201_rut_9	19.068	5.12	0.834	6.64	6.155	00.9	0.052	5.99	329.556	11.98	1998.07	12.00
UG012202_rut_1	7.055	6.62	0.760	3.38	14.932	7.87	0.141	7.72	852.595	15.43	2810.89	15.75
UG012202_rut_2	3.867	2.77	0.835	2.04	29.819	6.23	0.258	5.61	1481.717	11.23	3480.86	12.45
UG012202_rut_3	3.638	4.85	0.773	2.42	29.795	4.27	0.280	5.72	1593.199	11.43	3480.07	8.55
UG012202_rut_4	6.215	3.58	0.807	2.71	18.019	3.78	0.162	3.69	968.527	7.38	2990.75	7.57
BHF-02 rut1	289.229	9.12	0.753	12.56	0.381	9.18	0.003	9.04	22.250	18.08	327.58	18.37
BHF-02 rut2	38.200	96.9	0.857	7.88	3.240	7.62	0.027	8.36	172.348	16.72	1466.71	15.23
BHF-02 rut3	413.829	11.27	0.758	15.74	0.265	11.26	0.003	11.22	16.207	22.43	238.78	22.52
BHF-02 rut4	133.289	6.74	0.798	9.17	0.865	6.68	0.008	99.9	50.274	13.35	632.95	13.36
BHF-03 rut1	0.168	2.27	0.836	0.62	746.010	2.62	990'9	2.11	12604.661	4.23	6717.86	5.24
BHF-03 rut11	0.491	3.42	0.862	2.27	253.670	3.79	2.120	3.45	7335.782	06.90	5625.19	7.58
BHF-03 rut12	19.548	5.03	0.805	4.60	2.867	6.97	0.053	5.47	330.765	10.93	1956.44	13.93
BHF-03 rut13	44.176	16.09	0.680	11.75	2.154	18.53	0.022	19.55	143.159	39.10	1166.40	37.05
BHF-03 rut14	0.363	8.19	0.840	2.25	332.272	7.40	2.852	7.50	8693.966	15.00	5898.32	14.80
BHF-03 rut2	393.907	11.39	0.662	16.37	0.247	12.16	0.003	11.70	16.698	23.39	223.82	24.31
BHF-03 rut3	54.593	7.86	0.769	8.29	1.995	15.57	0.018	9.64	117.229	19.28	1113.72	31.14
BHF-03 rut5	2.933	12.66	0.822	3.22	40.563	12.24	0.349	12.91	1930.401	25.82	3784.55	24.48
BHF-03 rut6	0.233	2.55	0.848	0.71	517.726	2.85	4.391	2.30	10860.266	4.61	6347.54	5.70
BHF-03 rut7	0.079	2.32	0.838	0.68	1523.006	2.61	13.061	2.12	17040.446	4.25	7441.84	5.23
BHF-03 rut8	303.175	7.43	0.622	10.92	0.292	8.29	0.003	7.45	21.742	14.90	259.99	16.58
BHF-03 rut9	0.042	6.26	0.837	1.22	2844.658	7.71	24.597	7.30	20902.233	14.61	8075.90	15.43
GBF-01 rut1	86.333	8.83	0.776	11.08	1.362	8.15	0.012	8.14	76.408	16.29	872.78	16.30
GBF-01 rut10	28.490	7.38	0.815	4.84	3.882	8.22	0.035	7.09	224.347	14.17	1610.00	16.44
GBF-01 rut11	21.865	7.27	0.764	3.53	5.145	7.87	0.047	8.13	295.628	16.25	1843.51	15.73
GBF-01 rut12	19.555	5.09	0.784	4.93	5.101	4.73	0.052	5.33	327.240	10.65	1836.31	9.47
GBF-01 rut13	132.388	9.38	699.0	15.64	0.652	12.27	0.007	10.75	48.053	21.51	209.98	24.54
GBF-01 rut14	1031.517	29.10	0.297	30.83	0.044	26.20	0.001	16.54	6.511	33.07	43.74	52.40
GBF-01 rut15	31.737	7.31	0.805	2.88	3.713	7.01	0.032	6.73	202.792	13.46	1574.21	14.02
GBF-01 rut16	30.859	3.91	0.801	2.24	3.806	3.52	0.033	3.38	206.880	97.9	1593.96	7.04
GBF-01 rut17	74.528	3.79	0.778	3.28	1.523	4.37	0.013	3.82	86.355	7.64	939.64	8.74
GBF-01 rut18	31.822	4.49	0.794	3.51	3.438	5.61	0.031	4.59	199.216	9.19	1513.14	11.22
GBF-01 rut19	25.692	15.57	0.829	6.32	4.542	8.01	0:038	8.33	248.448	16.66	1738.72	16.03
GBF-01 rut2	14.212	4.76	0.819	2.27	8.324	4.89	0.071	4.54	442.225	60.6	2266.97	9.79
GBF-01 rut20	27.988	99.2	0.805	2.02	4.183	5.34	0.036	5.45	230.744	10.84	1670.72	10.68
GBF-01 rut21	43.423	5.91	908:0	4.59	2.820	7.66	0.024	7.54	151.231	15.08	1361.00	15.31
GBF-01 rut22	38.295	4.00	0.805	4.77	3.063	4.09	0.027	3.92	168.811	7.83	1423.42	8.17
GBF-01 rut23	60.275	3.28	0.791	3.66	1.933	3.46	0.017	3.50	107.628	7.00	1092.69	6.92
GBF-01 rut24	28.573	4.68	0.802	1.50	3.866	3.87	0.035	3.51	221.383	7.01	1606.67	7.73
GBF-01 rut25	83.580	3.85	0.759	4.72	1.285	4.48	0.012	4.31	77.362	8.62	839.05	8.96
GBF-01 rut26	33.599	90.9	0.772	4.09	3.361	6.72	0:030	60.9	193.311	12.18	1495.32	13.43
GBF-01 rut27	106.460	2.87	0.771	6.97	0.958	8.97	600:0	7.77	59.904	15.53	682.03	17.94
GBF-01 rut28	28.364	3.63	0.812	2.37	3.941	3.89	0.035	3.94	223.616	7.89	1622.12	7.78
GBF-01 rut29	46.422	5.02	0.799	4.90	2.520	5.81	0.022	5.80	138.684	11.60	1277.91	11.62

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Analysis ID	238U/206Pb ratio	18%	207Pb/206Pb ratio	18%	207Pb/235U (calc) ratio	15%	206Pb/238U ratio	18%	206Pb/238U Age (Ma)	25%	207Pb/235U(calc) Age (Ma)	2s%
GBF-01 rut3	942.016	12.14	0.446	19.48	0.065	15.59	100.0	12.01	7.045	24.02	63.81	31.19
GBF-01 rut30	16.056	5.88	0.788	3.30	7.215	6.13	0.064	5.58	400.550	11.17	2138.33	12.26
GBF-01 rut31	305.996	10.11	0.470	13.61	0.235	13.42	0.003	13.87	20.729	27.75	214.46	26.83
GBF-01 rut4	76.122	5.68	0.730	5.63	1.395	5.87	0.013	6.29	85.149	12.57	886.62	11.75
GBF-01 rut5	40.558	4.29	0.798	3.48	2.876	4.50	0.025	4.65	159.622	9.31	1375.74	9.00
GBF-01 rut6	98.189	4.80	0.769	5.38	1.056	7.31	0.010	5.90	66.304	11.79	732.04	14.62
GBF-01 rut/	33.693	5.41	0.805	4.61	3.525	6.78	0.030	29.3	190.607	4 8	1532.85	13.56
GBF-01 rut9	30.126	5.23	0.773	5.57	3.887	4.00	0.049	5.34	212.085	10.68	1610.96	0.12
GBF-03 rut1	12.415	8.22	0.799	2.16	9.694	11.76	0.084	13.30	518.514	26.61	2406.17	23.51
GBF-03 rut10	4.532	3.00	0.828	1.99	27.407	3.45	0.225	3.00	1309.692	6.01	3398.11	06.9
GBF-03 rut11	3.225	8.10	0.798	3.63	38.287	6.77	0.324	8.08	1807.626	16.17	3727.36	13.54
GBF-03 rut12	1.322	5.85	0.835	1.00	91.943	7.52	0.750	7.02	3609.329	14.05	4601.70	15.04
GBF-03 rut13	3.655	4.82	0.829	0.82	33.340	5.04	0.276	5.02	1572.352	10.03	3590.72	10.07
GBF-03 rut14	4.407	4.41	0.829	2.43	28.384	4.37	0.232	4.79	1343.596	9.59	3432.44	8.75
GBF-03 rut15	1.431	4.10	0.838	1.06	91.092	5.74	0.732	5.72	3541.569	11.43	4592.36	11.49
GBF-03 rut16	10.488	90'9	0.805	1.52	11.135	5.78	960:0	5.92	591.482	11.84	2534.45	11.56
GBF-03 rut17	51.023	10.71	0.770	2.48	2.196	12.29	0.020	11.91	127.211	23.82	1179.77	24.57
GBF-03 rut19	0.142	2.63	0.829	0.54	869.209	2.81	7.202	2.78	13565.556	5.55	6872.86	5.63
GBF-03 rut2	2.161	4.45	0.824	1.42	64.089	5.55	0.472	4.86	2490.745	9.73	4124.47	11.11
GBF-03 rut20	0.152	13.38	0.829	99'0	801.152	10.49	889.9	10.22	13148.510	20.44	6790.17	20.98
GBF-03 rut21	15.036	6.50	0.799	2.44	7.851	7.83	990:0	8.09	411.570	16.19	2214.05	15.65
GBF-03 rut23	2.279	3.56	908.0	1.21	52.074	4.33	0.446	3.86	2378.428	7.72	4032.79	8.66
GBF-03 rut3	15.172	4.36	0.814	3.15	7.987	4.67	290:0	4.74	416.190	9.48	2229.55	9.34
GBF-03 rut4	0.011	8.23	0.817	1.71	10831.245	8.68	91.137	8.49	29158.797	16.98	9433.20	17.35
GBF-03 rut6	0.844	3.57	0.828	1.03	147.413	4.10	1.202	3.63	5089.478	7.26	5076.92	8.20
GBF-03 rut7	1.283	3.98	0.835	0.83	96.884	4.14	0.787	4.04	3741.303	8.09	4654.29	8.27
GBF-03 rut9	0.417	3.76	0.827	09:0	295.549	3.79	2.433	3.54	7950.447	7.08	5779.78	7.58
JEM-01 rut1	142.963	10.94	0.740	10.79	0.789	11.66	0.007	13.24	46.105	26.47	590.76	23.32
JEM-01 rut10	51.624	5.02	0.768	3.23	2.191	5.59	0.020	4.87	124.737	9.74	1178.14	11.17
JEM-01 rut11	547.919	20.58	0.230	42.09	090:0	36.86	0.002	21.59	12.067	43.19	59.24	73.72
JEM-01 rut12	100.442	11.34	0.643	8.33	906'0	8.98	0.010	9.92	66.831	19.89	654.77	17.96
JEM-01 rut13	78.252	4.30	0.728	6.38	1.350	4.74	0.013	5.06	82.253	10.13	867.75	9.48
JEM-01 rut14	17.120	4.75	0.805	4.00	7.005	5.09	0.059	5.25	371.538	10.49	2112.01	10.18
JEM-01 rut15	82.311	12.93	0.735	5.53	1.324	10.41	0.012	99.6	78.057	19.32	856.45	20.81
JEM-01 rut16	45.938	4.75	0.770	4.02	2.542	5.74	0.022	98.9	142.607	13.72	1284.21	11.47
JEM-01 rut1/	/4.882	8.48	0.719	6.89	1.454	9.17	0.014	12.17	88.309	23.02	911.47	18.34
JEM 04 mt3	33 883	0.07	0.766	77.0	1.323	9.63	410.0	9.0	91.340	10.20	940.44	9.29
JEM-01 rut20	156.459	1 69 2	901.0	9.46	0.0.0	11.34	2000	5 8	42 477	13.08	499.37	22.68
JEM-01 rut21	153.668	8.86	0.635	9.13	0.607	8.87	900:0	9.37	41.351	18.74	481.43	17.75
JEM-01 rut22	37.752	5.23	0.729	3.53	2.864	5.70	0.027	4.78	171.483	9.56	1372.48	11.39
JEM-01 rut23	7.803	7.55	0.825	1.62	15.757	8.62	0.131	8.85	791.290	17.71	2862.18	17.24
JEM-01 rut24	34.372	4.13	0.793	3.35	3.366	5.26	0.029	5.32	185.171	10.64	1496.41	10.51
JEM-01 rut25	165.004	5.06	0.685	7.52	0.620	7.10	900.0	6.38	39.408	12.76	489.78	14.21
JEM-01 rut26	85.328	5.95	0.685	5.62	1.185	6.84	0.012	6.18	75.561	12.35	793.69	13.68
JEM-01 rut27	74.090	6.74	0.779	3.04	1.512	8.36	0.013	7.59	86.391	15.18	935.06	16.72
JEM-01 rut28	207.765	9.16	0.595	9.31	0.424	11.82	0.005	10.42	30.635	20.83	359.17	23.64
JEM-01 rut3	19.431	3.22	0.818	3.01	6.378	4.40	0.053	3.44	330.985	6.89	2029.24	8.80
JEM-01 rut30	39.865	5.83	0.779	3.39	2.910	90.9	0.025	5.70	161.278	11.40	1384.42	12.11

Appendix B: Eastern Sunda arc geochronology data - rutile

Analysis ID	238U/206Pb ratio	18%	207Pb/206Pb ratio	18%	207Pb/235U (calc) ratio	18%	206Pb/238U ratio	18%	206Pb/238U Age (Ma)	2s%	207Pb/235U(calc) Age (Ma)	2s%
JEM-01 rut4	114.094	10.78	289.0	11.54	0.859	8.54	600:0	8.94	58.611	17.88	629.85	17.07
JEM-01 rut5	7.938	3.89	967.0	4.79	13.981	4.08	0.128	4.04	779.239	8.09	2748.42	8.15
JEM-01 rut6	58.186	8.75	0.789	3.75	2.005	8.48	0.018	8.26	113.890	16.52	1117.04	16.96
JEM-01 rut7	38.598	2.57	0.812	2.73	3.106	5.45	0.026	5.55	165.323	11.10	1434.08	10.91
JEM-01 rut8	173.331	6.52	0.674	4.91	0.574	6.55	900:0	5.45	37.655	10.90	460.85	13.10
JEM-01 rut9	46.242	3.81	0.737	3.55	2.376	4.12	0.022	4.51	137.417	9.03	1235.36	8.24
JER-01 rut1	0.064	2.31	0.843	0.35	1940.805	2.50	15.861	2.08	18211.086	4.17	7687.85	5.00
JER-01 rut10	0.044	2.96	0.850	0.48	2700.381	3.00	23.220	2.55	20545.853	5.09	8023.07	00.9
JER-01 rut11	0.262	6.68	0.849	2.12	478.236	5.29	3.815	5.02	10131.705	10.03	6267.14	10.58
JER-01 rut12	0.504	3.66	0.819	2.04	240.203	3.90	2.008	3.60	7098.606	7.20	5570.03	7.81
JER-01 rut13	260.0	2.24	0.842	0.30	1194.986	2.75	10.252	2.09	15603.735	4.18	7195.74	5.51
JER-01 rut14	0.134	1.98	0.844	0.47	875.879	2.37	7.604	1.73	13874.053	3.47	6880.61	4.74
JER-01 rut15	0.198	2.78	0.848	0.85	627.132	2.84	5.074	2.49	11629.864	4.98	6541.86	5.68
JER-01 rut16	0.766	4.46	0.843	2.32	153.684	5.51	1.330	4.71	5452.908	9.45	5118.93	11.03
JER-01 rut18	0.023	5.00	0.840	08.0	2086.807	4.36	44.594	4.06	24623.730	8.12	8667.89	8.72
JER-01 rut19	060.0	3.40	0.838	0.88	1311.908	3.28	11.465	2.90	16263.757	5.81	7290.45	6.56
JER-01 rut2	0.047	2.36	0.839	0.39	2628.715	2.56	21.476	2.16	20064.021	4.33	77.9667	5.13
JER-01 rut20	0.141	6.53	0.844	2.54	839.295	6.21	7.171	90.9	13541.213	12.16	6837.34	12.42
JER-01 rut3	0.049	3.17	0.837	0.63	2534.628	3.06	20.617	2.69	19812.746	5.38	7958.77	6.13
JER-01 rut4	1.208	31.36	0.849	17.72	116.243	27.54	0.965	16.28	4355.895	32.56	4837.53	55.08
JER-01 rut5	0.108	5.46	0.858	09'0	1215.780	5.08	9.619	4.95	15230.556	9.90	7213.25	10.16
JER-01 rut6	0.065	4.75	0.836	0.54	1929.027	4.81	15.689	4.56	18144.889	9.12	7681.67	9.62
JER-01 rut7	0.065	5.04	0.847	0.64	1912.150	5.31	15.448	4.91	18051.237	9.82	7672.75	10.61
JER-01 rut8	0.064	2.61	0.831	0.56	1912.115	2.84	15.718	2.43	18156.195	4.86	7672.73	5.69
JER-01 rut9	22.755	14.30	0.792	17.56	4.721	15.38	0.043	13.08	273.816	26.15	1770.90	30.76
LB002 rut1	0.342	5.35	0.829	1.01	346.662	4.99	2.928	4.65	8819.739	9.30	5941.24	9:38
LB002 rut10	279.412	9.23	0.557	13.79	0.298	10.72	0.004	9.19	23.223	18.38	264.56	21.44
LB002 rut11	92.523	9.39	0.696	14.39	1.031	7.46	0.011	7.22	69.310	14.44	719.58	14.93
2 rut 12	907.2 14	7.03	0.109	0.22	0:0:0	4.43	0.001	t 6	754 540	7.00	50.00	1.50
LB002 rut13	8.106	4.07	0.811	2.30	14.819	4.43	0.124	3.09	754.548	85.7	2803.67	8.87
LB002 rut14	0.172	2.73	0.849	\$ 6	160.814	2.99	1.308	4 6 4 6	9231.299	27.0	9164.69	28.0
LB002 rut15	61.019	7.09	0.768	79.7	960.1	3.28	0.015	2.79	95,385	20.0	86.806	0.00
LB002 rut16	908.427	87.7	0.130	18.33	0.021	17.09	0.001	87.7	7.11/ 6.713	14.55	21.22	3.17
LB002 rut18	0.107	2.36	6830	0.52	1141.972	2.62	9.397	2.17	15094.612	2,34	7149.71	5.24
LB002 rut19	0.031	3.42	0.838	0.29	3817.442	3.10	32.291	2.94	22596,548	5.88	8374.47	6.20
LB002 rut2	0.208	4.13	0.848	0.64	564.244	4.67	4.806	4.14	11338.837	8.28	6434.75	9.34
LB002 rut20	0.038	3.88	0.840	0.34	3242.007	3.62	26.571	3.42	21381.151	6.83	8208.62	7.24
LB002 rut3	804.349	6.75	0.034	31.16	900.0	30.58	0.001	7.21	7.993	14.42	6.27	61.15
LB002 rut4	0.129	3.31	0.832	0.56	933.575	3.18	7.749	2.71	13981.484	5.43	6945.31	6.36
LB002 rut5	733.823	12.57	980.0	32.02	0.018	30.43	0.001	16.07	8.973	32.13	17.75	60.85
LB002 rut6	555.533	18.90	0.530	28.93	0.146	22.29	0.002	19.16	12.155	38.33	138.73	44.57
LB002 rut7	20.072	3.25	0.804	2.33	5.892	2.98	0.050	3.12	315.350	6.25	1960.05	5.97
LB002 rut9	0.041	2.31	0.845	0.39	3043.808	2.60	24.599	2.14	20902.900	4.29	8144.58	5.21
LB018 rut1	0.098	4.64	0.846	1.26	1212.479	4.70	10.523	3.68	15757.089	7.36	7210.49	9.40
LB018 rut10	0.181	4.16	0.814	1.78	630.121	4.80	5.713	4.45	12274.354	8.83	6546.68	9.59
LB018 rut2	1.174	3.49	0.830	3.15	99.002	3.73	0.878	3.44	4061.382	6.87	4676.06	7.45
LB018 rut3	0.037	2.07	0.846	96.0	3182.788	4.34	27.608	3.54	21619.123	7.08	8189.91	8.68
LB018 rut4	0.063	4.20	0.834	0.85	1859.207	4.07	16.414	3.39	18419.041	6.79	7644.25	8.13
LB018 rut6	0.050	3.24	0.849	1.31	2385.832	3.69	20.489	2.75	19774.668	5.50	7897.37	7.38

Appendix B: Eastern Sunda arc geochronology data - rutile

_	18%		207Pb/206Pb ratio	18%	207Pb/235U (calc) ratio	18%	206Pb/238U ratio	18%	206Pb/238U Age (Ma)	2s%	207Pb/235U(calc) Age (Ma)	2s%
2.41 0.839	0.839		Ö	0.52	3447.949	2.77	30.304	2.28	22199.789	4.57	8271.13	5.55
8.16 0.839	0.839		1.59		5900.902	7.76	51.596	7.59	25544.680	15.18	8816.60	15.51
2.88 0.835	0.835		0.47		4618.700	2.87	40.572	2.32	24028.445	4.64	8267.89	5.74
3.02 0.815	0.815		3.74		13.208	3.42	0.119	3.32	724.787	6.65	2694.61	6.83
7.784 12.76 0.821 3.42 234.673 6.48 0.600 13.93	0.821	,	3.42		15.601	8.49	0.131	8.13	794.167	16.26	325.66	16.98
5.06 0.740	0.740		5.55		1.062	00.9	0.010	5.41	62.667	10.81	734.68	11.99
22.20 0.493	0.493	.,	35.13		0.145	27.35	0.002	22.20	13.957	44.39	137.73	54.71
680.457 11.90 0.040 74.63	0.040		74.63		< DL	73.70	0.002	11.76	9.728	23.51	< DL	147.41
7.64 0.775	0.775		8.84		2.417	8.29	0.023	7.68	144.095	15.36	1247.72	16.58
6.96	0.688		8.28		1.288	9.77	0.014	8.32	88.677	16.65	840.55	19.54
4.00 0.840	0.840		0.88		293.712	4.38	2.390	4.09	7870.334	8.17	5773.47	8.76
2.49 0.833	0.833		0.38		15661.699	2.87	137.706	2.38	31795.938	4.77	9807.62	5.75
0.842	0.842		0.42		762.854	2.83	6.297	2.40	12811.616	4.81	6740.50	2.67
0.834	0.834		0.32		8064.683	2.51	666:02	1.92	27568.969	3.84	9133.75	5.03
2.07 0.835	0.835		09:0		582.526	2.61	5.130	2.13	11688.352	4.27	6467.07	5.22
	0.838		0.35		3408.808	4.40	29.621	4.12	22057.456	8.23	8259.54	8.80
0.055 4.11 0.852 0.94	0.852		0.94		2160.320	3.77	18.455	3.41	19133.485	6.83	7796.59	7.55
0.863	0.863		1.87		1934.901	99.2	16.292	7.26	18373.660	14.51	7684.75	15.31
2.89 0.845	0.845		0.55		6531.304	3.67	56.643	3.10	26135.421	6.20	8919.65	7.34
0.831	0.831		0.48		642.310	4.82	5.632	4.73	12196.368	9.45	6566.10	9.65
2.69 0.828	0.828		0.61		1920.352	3.07	16.771	2.47	18549.773	4.95	7677.09	6.13
2.22 0.833	0.833		99.0		264.466	2.65	2.311	2.13	7718.314	4.25	5667.35	5.30
2.08 0.831	0.831		0.36		199.440	2.58	1.753	2.06	6527.112	4.12	5382.05	5.16
4.25 0.836	0.836		0.41		255.645	4.56	2.227	4.20	7553.035	8.40	5633.03	9.12
1.74 0.833	0.833		0.40		1808.353	2.34	15.811	1.67	18192.114	3.35	7616.11	4.69
8.62 0.840	0.840		1.05		10996.025	12.38	94.795	10.42	29409.782	20.84	9448.53	24.76
3.80 0.839	0.839		0.40		491.863	4.24	4.274	3.84	10719.085	7.68	6295.61	8.48
1.63 0.832	0.832		0.47		557.469	2.22	4.859	1.57	11397.262	3.14	6422.50	4.44
5.30 0.817	0.817		2.58		17.167	4.59	0.141	4.93	851.984	9.87	2944.22	9.17
9.37 0.835	0.835		2.67		8.217	7.03	0.067	6.14	450.794	12.29	2255.22	14.06
3.72 0.769	0.769		4.96		3.419	5.55	0.032	5.45	204.059	10.90	1508.83	11.10
6.56 0.809	0.809		5.99		2.048	9.03	0.017	8.86	110.841	17.73	1131.64	18.06
7.87 0.794	0.794		6.61		2.860	8.15	0.025	7.37	157.839	14.75	1371.49	16.31
9.64 0.735 1	0.735		10.05		2.001	7.16	0.020	8.64	125.596	17.28	1115.98	14.32
3.73 0.782	0.782		4.4		2.551	3.77	0.024	3.84	151.040	7.68	1286.65	7.54
3.41 0.831	0.831		2.34		26.657	4.10	0.230	4.41	1335.255	8.82	3370.93	8.20
19.046 5.66 0.777 4.40	0.777		4.40		5.702	6.82	0.053	6.89	334.272	13.79	1931.64	13.63
8.077 3.08 0.823 1.86	0.823	_	1.86		14.551	3.94	0.127	3.45	772.359	6.89	2786.34	7.87
13.039 5.27 0.785 5.80	0.785		5.80		8.558	4.10	0.079	5.79	490.026	11.59	2292.15	8.19
7.130 4.65 0.825 2.05	0.825		2.05		17.236	5.13	0.141	5.05	852.416	10.11	2948.08	10.25
446.987 7.55 0.525 9.68	0.525		9.68		0.174	7.78	0.002	7.21	14.847	14.42	163.11	15.56
5.42 0.748	0.748		6.31		1.880	6.93	0.018	6.14	116.599	12.28	1074.10	13.87
0.802	0.802		5.26		6.672	5.65	0.061	5.37	379.494	10.74	2068.89	11.31
12.49 0.309	0:308	.,	23.38		0.100	19.77	0.002	12.67	15.200	25.34	10.76	39.54
19.533 4.09 0.816 4.84	0.816		4.84		6.302	4.16	0.052	4.01	326.708	8.02	2018.79	8.32

Appendix B: Eastern Sunda arc geochronology data - titanite

15% 207Pb/206Pb 15% 207Pb/238U 15% 206Pb/238U 15% ratio	15% 207Pb/235U 15% 206Pb/238U 15% ratio	207Pb/235U 15% 206Pb/238U 15% (calc) ratio	J 15% 206Pb/238U 15%	206Pb/238U 1s% ratio	15%		208	208Pb/232Th ratio	18%	206Pb/238U Age (Ma)	2s%	207Pb/235U(calc) Age (Ma)	2s%	208Pb/232Th Age (Ma)	2s%
4.60 0.6574 7.04 0.5695 5.75 0.0064	7.04 0.5695 5.75 0.0064	0.5695 5.75 0.0064	5.75 0.0064	_	_	4.63		0.0035	6.70	40.89	9.26	457.68	11.49	71.04	13.40
3.60 0.6710 6.80 0.6814 5.76 0.0074	6.80 0.6814 5.76 0.0074	0.6814 5.76 0.0074	5.76 0.0074	0.0074	_	3.77		0.0024	6.43	47.41	7.55	527.64	11.52	48.90	12.86
3.64 0.4584 6.05 0.1682 5.30 0.0027	6.05 0.1682 5.30 0.0027	0.1682 5.30 0.0027	5.30 0.0027	0.0027		3.63		0.0011	5.58	17.17	7.26	157.83	10.60	22.89	11.15
6.40 0.6216 10.08 0.4987 8.13 0.0059	10.08 0.4987 8.13 0.0059	0.4987 8.13 0.0059	8.13 0.0059	0.0059		6.39		0.0019	9.57	37.89	12.77	410.82	16.26	37.60	19.14
153.68 5.63 0.507.52 5.53 0.5041 4.81 0.0065 5.54 162.68	5.63 0.5141 4.81 0.0065 7.62 0.5800 7.86 0.0061	0.5141 4.81 0.0065	7.86 0.0065	0.0063	_	5.04		0.0024	11.55	42.03	11.37	421.22	9.62	48.41	23.09
8.60 0.4257 15.59 0.1342 13.59 0.0024	15.59 0.1342 13.59 0.0024	0.1342 13.59 0.0024	2 13.59 0.0024	0.0024	4	8.84		0.0019	14.60	15.17	17.68	127.86	27.17	37.51	29.20
2.62 0.8393 0.31 7485.7422 2.87 64.7022	0.31 7485.7422 2.87 64.7022	7485.7422 2.87 64.7022	2 2.87 64.7022	64.7022	~	2.46		193.9706	4.48	26979.02	4.92	9058.12	5.73	106879.94	8.95
7.45 0.5779 12.05 0.6804 10.71 0.0087	12.05 0.6804 10.71 0.0087	0.6804 10.71 0.0087	10.71 0.0087	0.0087		7.44		0.0027	10.64	55.65	14.89	526.99	21.43	54.02	21.27
0.6330 11.09 0.4589 9.13 0.0052	11.09 0.4589 9.13 0.0052	0.4589 9.13 0.0052	9.13 0.0052	0.0052		7.46		0.0028	8.46	33.74	14.91	383.49	18.26	56.70	16.93
4.73 U.8169 3.54 3.4444 4.73 U.0295 E.84 0.0290 0.0290 0.0020 0.0020 0.00200 0.0020 0.0020 0.0020 0.0020 0.0020 0.0020 0.0020 0.0020 0	5.54 5.4444 4.73 0.0235	3.4444 4.73 0.0295 0.0290 6.00 0.0093	4.73 0.0233	0.0083		C 4. 0		0.0145	9.0	187.30	10.90	1514.60	04.0	74.23	15.61
5.77 0.6111 8.81 0.4788 8.18 0.0055	8.81 0.4788 8.18 0.0055	0.4788 8.18 0.0055	8 8.18 0.0055	0.0055		5.72		0.0016	7.71	35.31	± ±	397.26	16.36	32.23	15.43
7.03 0.6990 17.08 1.9078 7.15 0.0198	17.08 1.9078 7.15 0.0198	1.9078 7.15 0.0198	8 7.15 0.0198	0.0198		7.54		0.0221	8.79	126.57	15.07	1083.82	14.31	442.18	17.58
0.0046	5.76 0.3794 4.88 0.0046	0.3794 4.88 0.0046	4 4.88 0.0046	0.0046		3.75		0.0025	5.74	29.50	7.50	326.61	9.75	51.59	11.49
4.11 0.6703 6.13 0.4278 5.05 0.0046	6.13 0.4278 5.05 0.0046	0.4278 5.05 0.0046	5.05 0.0046	0.0046		4.09		0.0029	6.04	29.69	8.19	361.65	10.10	59.45	12.08
4.32 0.8015 6.37 5.5085 5.24 0.0500	6.37 5.5085 5.24 0.0500	5.5085 5.24 0.0500	5.24 0.0500	0.0500		4.47		0.0338	6.09	314.47	8.93	1901.92	10.49	673.92	12.18
3.52 0.5924 5.36 0.3074 4.91 0.0038	5.36 0.3074 4.91 0.0038	0.3074 4.91 0.0038	4.91 0.0038	0.0038		3.51		0.0026	5.96	24.18	7.03	272.17	9.82	51.96	11.92
3.91 0.6377 5.89 0.5314 4.93 0.0061	5.89 0.5314 4.93 0.0061	0.5314 4.93 0.0061	4.93 0.0061	0.0061		4.12		0.0039	5.98	39.08	8.24	432.77	9.85	79.27	11.96
7.68 0.3209 15.35 0.1336 13.58 0.0029	15.35 0.1336 13.58 0.0029	0.1336 13.58 0.0029	13.58 0.0029	0.0029		7.70		0.0008	14.22	18.96	15.39	127.33	27.16	16.01	28.45
7.69 0.7704 7.75 50.1986 6.62	7.75 50.1986 6.62 0.4605	50.1986 6.62 0.4605	6.62 0.4605	0.4605		7.45		0.5816	8.16	2441.65	14.90	3996.26	13.23	9292.66	16.32
2.20 0.8343 0.70 291.5910 2.40 2.5168	0.70 291.5910 2.40 2.5168	291.5910 2.40 2.5168	2.40 2.5168	2.5168		2.11		83.9346	5.86	8106.69	4.21	5766.13	4.79	90036.34	11.71
2.24 0.8376 1.07 369.5806 2.38 3.2528	1.07 369.5806 2.38 3.2528	369.5806 2.38 3.2528	2.38 3.2528	3.2528		2.06		11.0839	5.81	9331.63	4.12	90.9009	4.75	20509.87	11.61
3.30 0.8325 0.85 562.7099 3.21 4.8913	0.85 562.7099 3.21 4.8913	562.7099 3.21 4.8913	3.21 4.8913	4.8913		3.17		10.1642	4.12	11432.50	6.34	6431.99	6.41	48905.38	8.23
3.62 0.8321 1.29 168.4975 3.66 1.4668	1.29 168.4975 3.66 1.4668	168.4975 3.66 1.4668	3.66 1.4668	1.4668		3.57		3.3414	3.92	5820.56	7.14	5211.80	7.32	29760.23	7.83
4.52 0.8798 3.89 89.6596 4.71 0.7356	3.89 89.6596 4.71 0.7356	89.6596 4.71 0.7356	3 4.71 0.7356	0.7356		4.53		2.5153	6.43	3554.11	9.07	4576.45	9.45	25481.87	12.86
2.14 0.8425 0.62 477.9737 2.26 4.1207	0.62 477.9737 2.26 4.1207	477.9737 2.26 4.1207	2.26 4.1207	4.1207		1.92		6.4858	4.25	10528.87	3.84	6266.59	4.53	40803.38	8.50
2.32 0.8383 0.79 1157.1193 2.50 9.9974	0.79 1157.1193 2.50 9.9974	1157.1193 2.50 9.9974	2.50 9.9974	9.9974		2.20		3.6823	3.91	15456.28	4.40	7163.07	5.01	31292.21	7.82
1.89 0.8165 1.11 271.5961 2.24 2.3486	1.11 271.5961 2.24 2.3486	271.5961 2.24 2.3486	2.24 2.3486	2.3486		1.87		3.1241	3.93	7790.69	3.74	5694.26	4.48	28719.13	7.86
1.48 0.8378 0.50 521.5425 1.88 4.5207	0.50 521.5425 1.88 4.5207	521.5425 1.88 4.5207	1.88 4.5207	4.5207		1.45		5.2697	3.71	11013.68	2.91	6354.99	3.75	37209.81	7.42
5.24 0.8330 1.49 1415.3818 5.50 12.2839	1.49 1415.3818 5.50 12.2839	1415.3818 5.50 12.2839	5.50 12.2839	12.2839		4.88		128.1325	13.12	16673.92	9.75	7367.48	11.00	98528.55	26.24
0.16 6.31 0.8813 2.84 764.1244 6.28 6.22 6.22	2.84 764.124 6.28 6.2785	764.1244 6.28 6.2785	6.28 6.2785	6.2785		6.22		106.3107	22.16	12795.59	12.43	6742.18	12.56	94776.38	44.32
3.38 0.8345 2.64 36.9439 3.57 0.3197	2052 23,54,72 3,54,24,72 3,57 0,3497	36 9439 3.57 0.3197	357 0.2000	0.2000		3.40		2.8142	5. 5. 5. 5.	1788 03	8.9	3692 04	7 14	27 166 95	13.11
3.06 0.6673 4.19 0.6321 4.05 0.0067	4.19 0.6321 4.05 0.0067	0.6321 4.05 0.0067	4.05 0.0067	0.0067		3.48		0.0804	5.45	43.22	6.95	497.43	8.09	1567.90	10.89
4.61 0.6737 6.96 0.3647 5.66 0.0039	6.96 0.3647 5.66 0.0039	0.3647 5.66 0.0039	5.66 0.0039	0.0039		4.61		0.0011	6.72	25.01	9.22	315.75	11.31	22.23	13.44
3.19 0.0567	3.36 6.0735 3.19 0.0567	6.0735 3.19 0.0567	3.19 0.0567	0.0567		2.71		0.0310	4.91	355.61	5.45	1986.46	6.38	619.22	9.83
6.74 0.4537 11.81 0.2084 9.95 0.0033	11.81 0.2084 9.95 0.0033	0.2084 9.95 0.0033	9.95 0.0033	0.0033		6.73		0.0039	96.6	20.96	13.47	192.17	19.89	79.42	19.92
3.32 0.4533 5.46 0.2119 4.85 0.0033	5.46 0.2119 4.85 0.0033	0.2119 4.85 0.0033	4.85 0.0033	0.0033		3.31		0.0009	5.10	21.54	6.62	195.16	69.6	18.18	10.20
3.85 0.6575 5.73 0.4744 5.61 0.0052	5.73 0.4744 5.61 0.0052	0.4744 5.61 0.0052	5.61 0.0052	0.0052		4.14		0.0036	6.11	33.53	8.29	394.25	11.22	72.87	12.22
5.15 0.0028	6.04 0.2092 5.15 0.0028	0.2092 5.15 0.0028	5.15 0.0028	0.0028		3.90		0.0181	6.18	18.02	7.79	192.89	10.29	363.34	12.37
	6.91 1.5442 5.63 0.0160	1.5442 5.63 0.0160	5.63 0.0160	0.0160		4.63		0.0064	7.00	102.10	9.25	948.18	11.26	129.79	13.99
	5.87 0.9664 4.71 0.0093	0.9664 4.71 0.0093	4.71 0.0093	0.0093		4.13		0.0145	5.54	59.42	8.26	686.59	9.42	291.24	11.07
5.02 0.0067	6.12 0.6478 5.02 0.0067	0.6478 5.02 0.0067	5.02 0.0067	0.0067		4.13		0900:0	6.05	42.82	8.27	507.13	10.03	121.24	12.09
	6.00 0.4696 4.91 0.0048	0.4696 4.91 0.0048	4.91 0.0048	0.0048		4.07		0.0029	6.15	30.84	8.14	390.95	9.83	58.73	12.29
3.82 0.6509 5.68 0.2634 4.75 0.0029	5.68 0.2634 4.75 0.0029	0.2634 4.75 0.0029	4.75 0.0029	0.0029	_	3.79		0.0041	6.45	18.70	7.59	237.38	9.50	81.96	12.89
1 4.94 0.0159	2.97 1.8491 4.94 0.0159	1.8491 4.94 0.0159	1 4.94 0.0159	0.0159	6	4.26		0.0072	5.61	101.96	8.52	1063.10	988	145.70	11.21
3 4.75 0.0213	5.34 2.1933 4.75 0.0213	2.1933 4.75 0.0213	3 4.75 0.0213	0.0213		3.77		0.0061	6.52	135.78	7.54	1178.91	9.50	123.15	13.05
5 5.35 0.0065	5.23 0.6355 5.35 0.0065	0.6355 5.35 0.0065	5 5.35 0.0065	0.0065		4.47		0.0248	5.71	41.62	8.94	499.52	10.71	497.14	11.42
3.74 0.6863 5.50 0.7651	5.50 0.7651 4.58 0.0080	0.7651 4.58 0.0080	1 4.58 0.0080	0.0080		4.17		0.0028	5.96	51.51	8.35	576.97	9.17	56.71	11.91

Appendix B: Eastern Sunda arc geochronology data - titanite

2s%	12.42	9.55	12.48	19.39	14.33	11.62	11.12	11.46	16.84	16.88	16.49	12.46	20.56	11.44	11.23	14.70	11.02	17.19	12.41	12.54	13.77	14.20	18.31	12.95	10.28	7.08	9.87	18.17	24.85	10.62	66.89	16.68	8.39	14.07	10.42	5 6	9.0	50.64	03.00	7 18	0 7	2 2	5 2 2	2 2 2	10.36	11 79	12.21	41.8	15.62
208Pb/232Th Age (Ma)	163.49	197.61	22.50	86.46	151.53	39.75	91.52	543.78	315.48	623.87	73.17	68.71	25.59	32.07	646.47	90.35	162.86	47.05	54.37	20.61	153.73	125.71	1498.87	28.00	49997.79	22691.35	3326.77	84346.03	37116.76	57919.17	90704.45	76550.05	10382.64	51151.30	2426.25	07:07-5	902.03	2055.20	E34 40	11032 23	1052.23	34628 55	7450.23	1000 84	56608.34	67740.96	54370.43	15175 65	25198.10
2s%	9.59	7.07	11.63	17.31	12.37	69.6	9.25	9.58	16.56	17.18	14.31	12.68	14.99	11.94	8.46	13.27	69.6	18.48	10.19	10.84	12.48	12.30	15.67	9.46	4.92	6.16	8.45	6.93	13.61	5.55	17.22	12.97	5.41	10.89	6.36	5 6	0.00	08.13	5 5	26.1	0.00	0.00	7 36	05.70	13.11	13.35	8,35	6.80	10.29
207Pb/235U(calc) Age (Ma)	1048.79	1308.71	132.73	581.90	278.46	421.58	416.49	1243.25	515.76	1308.00	653.98	431.97	407.81	386.51	1926.07	72.80	994.67	362.73	104.25	326.79	626.31	322.34	3381.53	827.44	5781.78	5295.30	2693.63	7147.63	4858.06	7853.37	8269.31	7305.25	4214.35	67/8.97	3737.82	20.000	0009.19	2654 11	2000 000	3672 10	3630.05	5304 52	2001:02	1068 50	8624.45	8365 01	5767.05	5148 25	3014.05
2s%	9.43	5.97	8.65	14.24	9.13	7.80	8.34	7.81	11.93	12.00	11.38	9.14	12.29	9.16	7.81	8.06	7.26	14.14	6.49	8.30	10.75	9.84	14.94	7.38	4.64	00.9	8.02	6.16	15.21	4.51	16.40	13.35	4.66	7 15	7.13	3 6	0.0	90	3 6	0.0 K	1.0.7	3. 4	2 2	22 50	13.06	13.32	7.58	6.50	8.8
206Pb/238U Age (Ma)	102.59	151.47	13.94	52.87	27.19	35.66	35.68	130.93	44.30	159.93	58.35	38.12	35.12	32.18	304.40	10.75	116.00	33.65	13.14	28.59	57.61	26.75	1236.65	76.58	8230.09	6154.50	689.36	15352.45	4818.32	19404.07	22215.14	16350.62	2809.53	13327.68	1914 58	000	05.30	648.06	060.90	1775 73	176170	6101.73	545.28	111 72	24253.12	22632.37	8132.24	5580 19	1017.67
18%	6.21	4.78	6.24	69.6	7.17	5.81	5.56	5.73	8.42	8.44	8.25	6.23	10.28	5.72	5.61	7.35	5.51	8.59	6.20	6.27	6.89	7.10	9.16	6.47	5.14	3.54	4.94	9.08	12.43	5.31	33.44	8.34	4.19	45. Z	5.24		9 1	24.01 P. 04	5 5	3.50	0.09	202	20.0	27.43	5.18	2 2 2	6.11	4 07	7.81
208Pb/232Th ratio	0.0081	0.0098	0.0011	0.0043	0.0075	0.0020	0.0045	0.0272	0.0157	0.0313	0.0036	0.0034	0.0013	0.0016	0.0324	0.0045	0.0081	0.0023	0.0027	0.0025	0.0076	0.0062	0.0767	0.0029	10.7824	2.0632	0.1784	63.1455	5.2409	16.4162	86.7807	42.6649	0.6690	11.4724	2.8322	0.1272	0.0433	9.4603	9000	0.0200	0.7233	4 5200	1.0200	0.0553	15.3256	27 2743	13,6191	1 1142	2.4665
18%	4.72	2.98	4.32	7.12	4.56	3.90	4.17	3.91	2.97	00.9	5.69	4.57	6.14	4.58	3.91	4.03	3.63	7.07	3.25	4.15	5.37	4.92	7.47	3.69	2.32	3.00	4.01	3.08	7.61	2.26	8.20	6.68	2.33	5.37	2.57		5 6	9.00	5 4	. c	00.7	30.0	2 6	8 6	6.53	999	3.79	3.25	4.42
206Pb/238U ratio	0.0160	0.0238	0.0022	0.0082	0.0042	0.0055	0.0056	0.0205	0.0069	0.0251	0.0091	0.0059	0.0055	0.0050	0.0484	0.0017	0.0182	0.0052	0.0020	0.0044	0.0090	0.0042	0.2115	0.0120	2.5848	1.5979	0.1129	9.8217	1.1116	19.2887	30.3789	11.6341	0.5462	6.9047	0.3458	0 00 00	0.0 129	0.1059	0.1030	0.1423	0.317	16.45	0 t 0 0 0	0.0000	42.0463	32 4770	2.5308	13765	0.1710
15%	4.80	3.53	5.82	8.66	6.18	4.84	4.63	4.79	8.28	8.59	7.16	6.34	7.50	2.97	4.23	6.63	4.85	9.24	5.09	5.42	6.24	6.15	7.84	4.73	2.46	3.08	4.23	3.46	6.80	2.78	8.61	6.48	2.71	5.44	3.00	5 7	6 1 6	70.8	10. 4	0.00	40.0	5 6	- a	20.00	6.55	6.67	4.17	3.40	5.14
207Pb/235U (calc) ratio	1.8092	2.6287	0.1397	0.7737	0.3155	0.5147	0.5071	2.4022	0.6619	2.6262	0.9042	0.5302	0.4943	0.4632	5.6651	0.0743	1.6634	0.4294	0.1081	0.4210	0.8530	0.3736	26.9466	1.2590	296.1350	183.0262	13.1940	1139.6412	118.6362	2284.6143	3441.7709	1331.1812	62.4656	792.3530	38 6936	200000	1.3330	12 6521	14 0004	36.2094	30.2034	184 1563	10 10 18	1 8643	4883.3344	3782 0069	291,8561	158 2151	18.4605
18%	90.9	4.00	6.70	10.95	7.36	5.82	4.98	5.40	9.05	8.87	8.98	5.55	9.33	6.09	3.84	7.36	5.35	11.42	5.65	6.19	7.74	7.56	9.53	4.84	1.04	1.03	2.81	1.10	6.32	0.63	1.36	0.98	1.89	77.7	8 5	- 4	4. 6	0.00	5 6	8 5	0.9	; <del>,</del>		20.27	0.55	0.47	25	75	3.69
207Pb/206Pb ratio	0.8035	0.7934	0.4599	0.6747	0.5384	0.6613	0.6594	0.8403	0.7009	0.7350	0.6969	0.6421	0.6402	0.6666	0.8470	0.3210	0.6588	0.5848	0.3873	0.6816	0.6780	0.6456	0.9081	0.7558	0.8234	0.8288	0.8440	0.8310	0.7709	0.8304	0.8198	0.8268	0.8078	0.8301	0.6227	0.1504	0.733	0.7728	0.2530	0.1329	0.8263	0.1971	0.8254	0.7615	0.8416	0.8395	0.8311	0.8318	0.7831
18%	4.68	3.00	3.98	7.22	4.55	3.91	3.42	3.91	5.63	6.14	5.38	4.32	00.9	4.26	3.68	3.84	3.64	7.15	3.26	4.16	5.11	5.15	9.11	3.40	2.29	2.98	4.06	3.30	6.25	2.33	7.41	6.29	2.49	5.37	9.73	2 6	00.0	4 4 5 4 7 7	2 4	t c	6. 6 7	2.0	9 6	5 6	8.18	8 24	3.65	3 23	4.21
238U/206Pb ratio	62.54	42.00	463.03	121.47	237.11	180.13	179.99	48.57	147.04	40.13	109.60	168.10	183.82	200.36	20.65	599.87	55.14	191.15	491.26	225.47	111.50	242.60	4.72	83.31	0.39	0.63	8.86	0.10	0.90	0.05	0.03	0.00	1.83	0.15	0.33	9 6	7.92	0.57	20:0	0.99	. 0. 0.	0.63	11.32	50.57	0.02	0.03	0.40	0.73	5.93
Analysis ID	LB037_329_tit24	LB037_329_tit25	LB037_329_tit26	LB037_329_tit27	LB037_329_tit28	LB037_329_tit29	LB037_329_tit3	LB037_329_tit30	LB037_329_tit31	LB037_329_tit32	LB037_329_tit33	LB037_329_tit34	LB037_329_tit35	LB037_329_tit36	LB037_329_tit37	LB037_329_tit38	LB037_329_tit39	LB037_329_tit4	LB037_329_tit40	LB037_329_tit41	LB037_329_tit5	LB037_329_tit6	LB037_329_tit7	LB037_329_tit8	LB037_329_tit9	LB042_331_tit1	LB042_331_tit2	ELF-03_333_tft1	ELF-03_333_tit2	ELF-03_333_tit3	ELF-03_333_tit4	ELF-03_333_tit5	ELF-03_333_tit6	ELF-03_333_tff/	SPE-05_335_till0	SPF-	02_336_0(10	SPF-05_336_IIIZ	SDE 06 336 tit4	SPE-03-330-1114	SPE-00-330 III	SPE-05-336-1172	SDE-05-336 ##8	SDE-05-336 ##0	NEF-02_337_tit1	NFF-02 337 #12	NEF-02 337 tit3	NFF-02 337 ##4	NEF-02_337_tit5

Appendix B: Eastern Sunda arc geochronology data - titanite

Appendix B: Eastern Sunda arc geochronology data - titanite

2s%	37.50	17.08	8.22	21.63	29.83	31.33	19.17	16.80	17.70	12.56	16.93			27.65	25.34	16.35	29.42	11.76	26.19	30.20	23.76	30.94	37.18	23.56	19.77	22.03	10.31	28.92	16.16	18.49	27.88	15.32	25.42	14.58	12.89	16.71	21.69	16.52		18.79	13.43	20.08	16.08	9.12	11.38	18.40	14.21	10.33	23.02	17.58
208Pb/232Th Age (Ma)	19.40	43053.01	1377.42	33368.76	6035.47	24.89	6898.36	25593.57	28875.96	1645.06	10341.94			1783.08	5210.01	2212.34	613.98	425.17	191.61	55.72	1579.36	16.64	68.53	83.85	1455.56	41.72	16044.13	63.18	1518.97	45.61	6913.83	2279.57	189.73	10473.76	370.74	26925.12	27746.04	3481.30		3446.98	210.57	864.62	4662.51	17950.18	58544.39	21421.76	32007.21	3364.59	62926.95	2356.03
7s%	48.38	11.17	5.60	8.62	29.56	29.78	10.75	99.9	10.43	9.57	9.55			20.06	28.32	5.13	29.35	10.07	17.83	30.88	26.20	39.82	57.20	19.10	15.54	22.94	7.4	26.79	13.08	18.72	29.29	24.15	22.37	10.34	10.91	18.55	14.39	19.18		15.24	14.13	20.28	12.70	7.83	6.07	19.90	21.54	8.35	30.23	14.37
207Pb/235U(calc) Age (Ma)	29.60	6931.96	1319.79	3782.67	5388.18	70.14	4028.98	6354.06	5991.37	2804.45	4364.78			1396.81	4072.71	1372.05	2279.25	2114.08	1175.36	188.44	2640.00	99.96	< DL	521.70	742.60	390.60	3920.13	169.05	2084.80	79.27	4409.13	3628.64	946.82	5096.18	1108.29	6428.95	4985.07	4616.79		3468.60	689.14	3124.85	1898.78	4511.98	5936.17	7169.58	7124.12	4486.39	8684.35	3188.37
2s%	25.06	11.14	5.89	8.51	28.82	18.25	9.02	6.49	10.43	10.71	7.52			20.70	18.81	4.91	21.07	8.34	16.58	19.69	16.93	20.48	30.01	14.65	13.00	15.73	6.23	16.17	12.27	9.67	26.77	13.25	20.99	9.75	9.21	18.35	12.59	18.38		15.48	9.86	14.97	11.89	7.74	6.28	19.74	21.39	8.10	29.86	13.12
206Pb/238U Age (Ma)	10.61	14110.76	147.64	2026.08	6313.88	8.99	2426.28	10810.77	9104.69	828.18	2998.04			182.57	3301.86	169.74	538.64	413.16	117.93	23.62	717.84	17.86	54.94	53.54	74.12	39.66	2236.27	24.34	359.02	18.40	3664.11	1832.70	83.85	5355.99	137.84	11083.73	5185.67	3811.74		1486.73	65.60	1257.24	292.96	3510.03	8862.77	15525.25	15430.66	3479.32	24310.14	1231.80
18%	18.75	8.54	4.11	10.81	14.91	15.67	9.59	8.40	8.85	6.28	8.46			13.83	12.67	8.18	14.71	5.88	13.10	15.10	11.88	15.47	18.59	11.78	9.89	11.01	5.16	14.46	8.08	9.25	13.94	99'2	12.71	7.29	6.45	8.36	10.84	8.26		9.40	6.71	10.04	8.04	4.56	5.69	9.20	7.11	5.16	11.51	8.79
208Pb/232Th ratio	0.0010	7.3645	0.0703	4.1874	0.3468	0.0012	0.4054	2.5347	3.1561	0.0845	0.6656			0.0920	0.2931	0.1153	0.0308	0.0212	0.0095	0.0028	0.0810	0.0008	0.0034	0.0041	0.0744	0.0021	1.2068	0.0031	0.0778	0.0023	0.4065	0.1190	0.0094	0.6765	0.0185	2.7747	2.9308	0.1874		0.1854	0.0104	0.0436	0.2586	1.4243	16.9618	1.8772	3.8504	0.1806	21.2971	0.1233
18%	12.53	5.57	2.95	4.26	14.41	9.13	4.52	3.24	5.22	5.36	3.76			10.35	9.41	2.45	10.54	4.17	8.29	9.85	8.47	10.24	15.01	7.32	6.50	7.87	3.12	8.09	6.13	4.83	13.38	6.63	10.50	4.87	4.60	9.17	6.30	9.19		7.74	4.93	7.48	5.95	3.87	3.14	9.87	10.70	4.05	14.93	6.56
206Pb/238U ratio	0.0016	7.9257	0.0232	0.3693	1.6630	0.0014	0.4570	4.3496	3.1057	0.1371	0.5921			0.0287	0.6690	0.0267	0.0871	0.0662	0.0185	0.0037	0.1178	0.0028	0.0086	0.0083	0.0116	0.0062	0.4147	0.0038	0.0573	0.0029	0.7654	0.3288	0.0131	1.2953	0.0216	4.5810	1.2354	0.8063		0.2594	0.0102	0.2153	0.0465	0.7237	2.9545	10.1157	9.9538	0.7155	42.4288	0.2106
1s%	24.19	5.58	2.80	4.31	14.78	14.89	5.38	3.34	5.22	4.79	4.78			10.03	14.16	2.57	14.67	5.04	8.91	15.44	13.10	19.91	28.60	9.55	7.77	11.47	3.72	13.39	6.54	9.36	14.65	12.07	11.19	5.17	5.46	9.27	7.20	9.59		7.62	90'2	10.14	6.35	3.91	3.03	9.92	10.77	4.17	15.12	7.18
207Pb/235U (calc) ratio	0.0605	921.3635	2.6685	40.4863	200.6522	0.0715	51.8756	521.0664	364.2582	14.8309	72.6004			2.9576	54.2025	2.8623	8.4378	7.0209	2.1821	0.2039	12.4637	0.0999	< DL	0.6716	1.0779	0.4691	46.5002	0.1812	6.7929	0.0812	75.8862	34.6470	1.5408	150.2564	1.9787	561.0299	134.5774	93.3339		29.4489	0.9713	20.7043	5.4884	84.0828	344.9284	1164.5639	1113.5351	81.9650	5180.1293	22.1054
18%	27.17	96.0	2.74	3.74	12.07	17.35	5.38	2.13	2.62	5.99	3.06			12.96	11.07	2.55	19.65	7.67	11.85	18.20	12.17	22.29	32.15	11.85	9.65	12.68	3.16	15.36	8.20	10.02	14.78	10.27	14.90	3.96	6.45	5.04	4.95	9.36		8.85	6.97	12.46	7.98	1.44	1.16	4.62	3.59	3.77	3.18	6.24
207Pb/206Pb ratio	0.2659	0.8369	0.8222	0.7962	0.8735	0.3706	0.8203	0.8670	0.8483	0.7654	0.8854			0.7446	0.5910	0.7760	0.6985	0.7472	0.8484	0.4030	0.7655	0.2602	0.2703	0.5860	0.6725	0.5504	0.8094	0.3465	0.8567	0.2059	0.7210	0.7642	0.8564	0.8409	0.6644	0.8851	0.7860	0.8393		0.8221	0.6875	0.6942	0.8555	0.8425	0.8454	0.8362	0.8133	0.8295	0.8944	0.7650
1s%	12.53	6.59	2.78	3.84	14.45	9.05	4.52	3.40	5.40	4.29	3.26			8.68	9.40	2.21	10.77	4.15	8.24	14.48	6.93	10.24	14.89	14.64	6.52	7.90	3.17	8.21	6.15	4.69	13.46	10.81	13.63	4.83	4.65	9.21	7.28	9.20		8.54	5.48	7.68	98.9	3.72	3.20	9.89	9.52	4.02	15.14	5.30
238U/206Pb ratio	630.55	0.13	43.46	2.69	09:0	716.83	2.21	0.23	0.32	7.33	1.71			35.11	1.54	37.49	12.01	14.98	53.99	275.73	8.54	367.19	117.65	121.00	86.73	163.60	2.41	264.87	17.47	352.68	1.33	3.06	76.40	0.77	46.71	0.22	0.80	1.25		3.81	98.17	4.77	21.59	1.39	0.34	0.10	0.10	1.40	0.02	4.67
Analysis ID	NAF-01_tit34	NAF-01_tit5	NAF-01_tit6	NAF-01_tit7	NAF-01_tit8	NAF-01_tit9	SLG-02_tit1	SLG-02_tit10	SLG-02_tit11	SLG-02_tit12	SLG-02_tit13	SLG-02_tit14	SLG-02_tit15	SLG-02_tit16	SLG-02_tit17	SLG-02_tit18	SLG-02_tit2	SLG-02_tit3	SLG-02_tit4	SLG-02_tit5	SLG-02_tit6	SLG-02_tit7	SLG-02_tit8	SLG-02_tit9	SEF-01_tit_1	SEF-01_tit_2	SEF-01_tit_3	SEF-01_tit_4	SEF-01_tit_5	SEF-01_tit_6	SEF-02_tit_1	SEF-02_tit_10	SEF-02_tit_11	SEF-02_tit_12	SEF-02_tit_13	SEF-02_tit_2	SEF-02_tit_3	SEF-02_tit_4	SEF-02_tit_5	SEF-02_tit_6	SEF-02_tit_7	SEF-02_tit_8	SEF-02_tit_9	SEF-04_tit_1	SEF-04_tit_2	SEF-04_tit_3	SEF-04_tit_4	SEF-04_tit_5	SEF-04_tit_6	SEF-04_tit_7

Appendix B: Eastern Sunda arc geochronology data - titanite

Appendix B: Eastern Sunda arc geochronology data - titanite

2s%	14.68	27.42	6.27	2.00	7.70	6.28	7.44	8.39	5.36	7.80	7.37	7.08	6.72	6.33	7.49	2.67	6.43	7.61	11.54	21.20	24.65	37.36	9.92	13.10	10.80	9.12	9.36	8.35	12.98	96.6	16.16
208Pb/232Th Age (Ma)	14851.09	17272.36	26533.41	11683.11	43104.63	42663.05	41454.46	38279.76	15758.61	32714.19	54894.04	22636.79	29079.77	37101.72	37187.20	13049.79	33323.11	48546.19	51156.36	47840.81	1116.38	51847.26	50404.24	22533.14	36151.76	9373.20	5627.85	11309.89	16798.31	674.89	49.46
2s%	15.14	28.82	3.23	2.61	3.75	3.10	3.62	4.18	2.98	4.31	2.98	4.39	3.31	3.36	3.78	2.60	3.94	3.30	7.49	8.34	8.69	12.51	10.86	10.02	8.90	6.51	7.99	7.61	10.61	8.33	17.20
207Pb/235U(calc) Age (Ma)	3852.19	3379.81	4354.99	5550.71	5296.42	5552.35	5312.11	5307.04	4832.97	4901.22	5384.46	4709.40	5298.48	5474.53	4920.83	4949.52	5775.92	5130.17	5768.53	5425.14	2967.00	7123.24	7110.52	5914.47	7284.07	4081.80	3791.40	5684.16	2591.34	1582.07	402.79
2s%	14.34	19.82	3.26	2.39	3.54	2.89	3.40	3.96	2.89	4.39	2.77	4.23	2.70	2.93	3.53	2.30	3.74	3.18	7.25	8.11	8.20	12.34	10.43	8.69	8.53	6.21	7.21	7.28	9.71	8.45	14.00
206Pb/238U Age (Ma)	2147.22	1441.55	3117.68	7139.34	5952.68	7244.42	6133.90	6124.03	4413.63	4833.60	6450.59	4085.86	6103.68	6832.30	4758.85	4857.50	8112.79	5548.24	8226.85	6566.24	997.75	15136.44	15071.14	8811.54	16079.63	2763.98	2351.45	7785.16	635.39	207.63	36.33
18%	7.34	13.71	3.14	2.50	3.85	3.14	3.72	4.19	2.68	3.90	3.68	3.54	3.36	3.16	3.75	2.84	3.21	3.81	5.77	10.60	12.33	18.68	4.96	6.55	5.40	4.56	4.68	4.18	6.49	4.98	8.08
208Pb/232Th ratio	1.0806	1.3446	2.7025	0.7796	7.3858	7.2051	6.7301	5.6095	1.1759	4.0225	14.0016	2.0550	3.1981	5.2363	5.2627	0.9037	4.1757	9.9681	11.4755	9.5930	0.0566	11.9080	11.0210	2.0394	4.9508	0.5879	0.3200	0.7471	1.2904	0.0339	0.0024
18%	7.17	9.91	1.63	1.19	1.77	4.	1.70	1.98	1.45	2.20	1.38	2.11	1.35	1.46	1.76	1.15	1.87	1.59	3.63	4.05	4.10	6.17	5.22	4.35	4.27	3.11	3.60	3.64	4.86	4.23	7.00
206Pb/238U ratio	0.3953	0.2506	0.6220	2.0268	1.5179	2.0765	1.5897	1.5857	0.9831	1.1166	1.7201	0.8848	1.5775	1.8860	1.0922	1.1245	2.5201	1.3648	2.5830	1.7693	0.1674	9.4651	9.3596	2.9231	11.1140	0.5354	0.4402	2.3457	0.1036	0.0327	0.0057
18%	7.57	14.41	1.62	1.30	1.88	1.55	1.81	5.09	1.49	2.15	1.49	2.20	1.66	1.68	1.89	1.30	1.97	1.65	3.74	4.17	4.35	6.25	5.43	5.01	4.45	3.26	3.99	3.80	5.31	4.16	8.60
207Pb/235U (calc) ratio	43.4262	26.8994	71.8947	235.6574	183.2285	236.0398	186.0973	185.1650	115.7173	123.8320	199.9149	102.3428	183.6025	218.5520	126.2659	129.9132	294.4246	155.4041	292.2834	208.1281	17.5794	1112.5637	1098.6986	337.6157	1303.6831	54.6988	40.8445	268.8975	11.8338	3.7498	0.4869
1s%	4.84	16.65	1.02	0.74	1.42	0.98	1.34	1.60	1.15	1.86	0.97	2.02	0.97	1.01	1.57	0.83	1.29	1.18	1.69	2.44	3.17	2.30	1.07	2.32	0.65	1.21	2.31	0.82	5.35	2.71	10.29
207Pb/206Pb ratio	0.7846	0.7771	0.8301	0.8396	0.8606	0.8205	0.8347	0.8331	0.8396	0.8137	0.8411	0.8236	0.8410	0.8344	0.8235	0.8351	0.8334	0.8231	0.8212	0.8499	0.7611	0.8527	0.8514	0.8358	0.8489	0.7400	0.6718	0.8313	0.8241	0.8298	0.6238
18%	8.40	9.92	1.63	1.23	1.88	1.45	1.72	2.00	1.38	2.04	1.39	2.20	1.4	1.66	1.89	1.16	1.89	1.68	3.64	4.05	4.01	6.20	7.09	4.58	4.36	3.08	3.58	4.11	4.36	4.25	6.99
238U/206Pb ratio	2.53	4.02	1.61	0.49	99.0	0.48	0.63	0.63	1.02	0.90	0.58	1.13	0.63	0.53	0.92	0.89	0.40	0.73	0.39	0.56	5.99	0.11	0.11	0.34	0.00	1.88	2.28	0.43	9.80	30.51	176.97
Analysis ID	BHF-02_tit8	BHF-02_tit9	JER-01_tit1	JER-01_tit10	JER-01_tit11	JER-01_tit12	JER-01_tit13	JER-01_tit14	JER-01_tit15	JER-01_tit16	JER-01_tit17	JER-01_tit18	JER-01_tit2	JER-01_tit3	JER-01_tit4	JER-01_tit5	JER-01_tit6	JER-01_tit7	JER-01_tit8	JER-01_tit9	LB018_tit1	LB018_tit2	LB018_tit3	LB018_tit4	LB018_tit5	LB022_tit1	LB022_tit2	LB029_tit1	LB029_tit2	LB036_tit1	LB036_tit2

Appendix C: Eastern Sunda arc zircon trace element chemistry

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Analysis ID	Ce	Dy	Ē	Eu	P9	¥	유	Га	ר	Q	PN	<u> </u>	Pb	Pr Sm	n Ta	ФŢ	드	Ē	n	<b>&gt;</b>	Υb	Zr	Fe	F
LB014_322_zr1	10.88	131.13	221.91	3.88	39.49	10495.13	45.66	0.439	117.58	69.0	-		_		18 0.19	11.60	51.35	48.57	71.30	1476.19	524.76	486269.66	32.96	5.12
LB014_322_zr10	6.51	76.20	162.96	1.25	18.25	9742.51	30.31	900.0	91.09	0.70	•	225.27			97 0.18	5.75	25.32	37.32	35.99	998.71	401.49	488155.84	<2.695	5.98
LB014_322_zr11	2.60	85.66	166.89	1.64	21.94	9341.37	32.42	900.0	85.42	0.49	•	191.38	0 600°C		4.28 0.14	29.9	23.99	37.13	29.51	1036.86	386.24	488491.14	<2.738	6.47
LB014_322_zr12	2.35	18.00	42.72	0.35	4.02	9918.62	7.39	0.001	27.48	0.28		96.94				1.32	5.39	10.80	10.70	261.63	120.21	489518.44	<2.932	4.52
LB014_322_zr13	5.61	49.56	123.85	0.48	9.54	9886.48	21.00	0.052	78.33	0.82						3.31	16.57	29.65	33.57	708.70	333.78	488394.70	<4.086	5.70
LB014_322_zr14	7.12	61.21	152.07	0.83	11.56	9174.25	26.80	0.001	90.16	0.90			0.009			4.06	22.64	35.39	36.91	891.79	392.26	488689.80	<2.733	7.85
LB014_322_zr15	6.18	73.56	139.53	2.00	18.95	8910.30	27.35	0.232	75.66	0.54	2.79	239.32		0.26 3.86	36 0.16	5.89	27.03	31.78	34.56	909.30	339.48	488902.04	19.71	6.58
LB014_322_2110	9.02	22.062	182.40	0.40	04:00	8260.62	34.61	0.040	08.80	64.1		+07.03 265.05				5.5	30.83	95.51	43.25	1135 13	430.66	4889562	54.02	9.40
LB014_322_zr18	4.97	48.24	124.34	0.74	9.61	9098.73	21.45	0.006	78.34	0.59				03 1.43		3.43	13.31	29.63	26.30	724.54	331.92	489033.74	24.0z <2.915	7.45
LB014 322 zr19	4.22	39.70	99.44	09:0	8.53	9134.19	17.44	0.001	61.93	0.56						2.86	12.01	23.64	21.39	576.07	262.17	489205.62	<3.142	5.37
LB014_322_zr2	6.57	57.94	150.28	0.81	10.75	9133.36	25.76	0.003	94.46	0.88					1.78 0.23	3.96	18.97	36.11	35.18	878.17	407.12	488728.88	<2.749	8.08
LB014_322_zr20	10.85	107.92	219.17	1.91	26.08	9700.59	42.25	0.013	115.49	96.0						8.47	61.31	49.65	68.75	1405.04	517.17	487291.53	<2.992	5.91
LB014_322_zr21	8.89	98.62	192.89	1.99	25.79	9617.13	37.72	0.008	103.10	0.68	2.89					8.32	49.34	43.54	52.03	1239.17	453.28	487689.70	<3.117	6.40
LB014_322_zr22	18.08	154.94	355.84	1.85	29.95	8992.25	66.15	0.004	186.96	2.03	-					11.09	91.06	79.85	93.56	2242.58	842.89	486229.56	<2.740	11.87
LB014_322_zr23	4.57	49.72	119.40	09.0	9.34	9040.19	21.47	0.004	74.41	0.55	.,					3.49	14.68	28.65	26.20	718.89	318.11	488900.96	<2.752	5.95
LB014_322_zr24	4.73	47.44	106.36	92.0	9.94	9414.30	19.22	0.022	63.43	0.56						3.57	17.52	24.73	26.84	651.36	272.78	489036.80	15.23	6.21
LB014_322_zr25	8.05	69.28	166.59	0.93	13.69	9068.13	29.85	0.004	97.41	1.04						4.98	34.15	38.87	49.90	1012.37	430.64	488508.19	<2.794	79.7
LB014_322_zr27	12.46	158.38	297.61	4.06	42.81	8476.52	59.32	0.045	145.22	96.0						13.15	72.14	65.20	59.79	1966.93	668.16	487420.32	9.53	7.88
LB014_322_zr28	9.50	89.62	214.07	1.23	17.47	8887.05	38.73	0.002	119.31	1.10						6.54	39.68	49.22	53.45	1310.31	527.35	488160.84	<2.610	8.92
LB014_322_zr29	5.13	43.46	102.69	92.0	9.38	9324.19	18.70	0.014	61.77	0.56						3.21	19.22	24.12	28.36	630.49	266.83	489181.35	3.28	7.11
LB014_322_zr3	6.20	59.04	134.78	1.06	14.37	9352.23	24.55	0.141	81.44	0.70						4.60	23.80	31.19	34.80	827.04	349.07	488665.88	7.41	7.50
LB014_322_zr30	4.68	44.95	99.54	94.0	11.03	10418.64	18.38	0.015	59.40	0.49						3.61	26.91	23.00	33.15	602.40	232.43	488396.44	<6.924	5.48
LB014_322_zr31	5.74	42.01	93.30	0.60	9.95	9429.91	17.11	0.112	55.83	0.74						3.27	27.75	22.70	29.63	577.71	228.65	488967.96	51.82	5.23
LB014_322_zr4	13.42	114.65	273.35	£ 1	21.37	8903.96	49.01	0.003	149.67	1.69						7.89	55.80	62.97	69.15	1669.01	670.13	487403.83	<2.738	10.91
LB014_322_zr5	5.73	19.04	47.78	0.73	20.00	9552.58	10.29	0.003	00.10	0.42	4 6	188.04	0.003		35 0.14	3.10	1.00	20.59	4 6	247.00	457 50	489132.87	0.30	0.0
LB014_322_216	13.04	146 92	318 90	0.39	4.04 31.80	83 10.30	9.45	0.009	158.70	134				11 0.00		10 97	78.27	70.53	73.05	20.02	77.507	487104 01	3.03	11.23
LB014_322_zr8	7.77	86.60	181.33	1.48	21.04	9555.73	34.66	0.014	96.96	0.71						6.77	40.02	42.63	47.97	1140.80	441.82	488009.88	3.33	7.10
LB014_322_zr9	6.24	65.92	147.99	1.00	14.10	9583.79	26.67	0.026	84.90	0.70		261.97				5.10	31.18	33.75	39.41	911.51	367.56	488345.40	<2.750	6.15
LB025_323_zr1	4.40	45.06	112.76	0.57	8.91	9322.35	19.79	0.003	68.63	0.65						3.38	15.81	26.47	31.16	92'. 199	293.05	489031.81	<2.977	7.87
LB025_323_zr10	4.48	43.93	100.64	0.56	8.68	9774.65	18.49	0.001	57.29	09:0				02 1.29		3.25	14.76	23.68	29.07	625.05	252.59	488878.04	<2.920	6.15
LB025_323_zr11	6.92	95.72	194.42	1.48	22.83	9257.28	38.25	0.023	95.86	0.70						7.54	36.96	43.53	49.38	1253.52	454.83	488149.38	10.59	10.75
LB025_323_zr12	5.12	55.45	134.79	0.67	10.77	9273.63	23.47	0.092	75.33	0.57		253.67				3.84	18.03	30.67	35.14	798.67	341.11	488779.25	<3.484	5.95
LB025_323_zr13	2.77	76.13	149.56	1.38	18.84	10006.10	28.89	0.062	74.80	0.61						6.16	27.52	32.65	40.21	975.64	338.18	488139.67	15.19	8.22
LB025_323_zr14	4.62	40.22	84.79	0.68	9.09	10435.59	15.71	0.027	48.13	0.46		124.95	0.013 0	0.02 1.61		2.92	17.70	19.86	27.25	532.67	213.61	488617.78	<4.276	5.75
LB025_323_Zf1/	4. 4	45.64	104.05	26.0	8.52	9353.61	18.91	0.002	72.34	60.0	0.57				30 U.16	3.48	15.51	24.12	30.43	731.01	272.38	488993.18	3 88	2.97
LB025 323 zr19	4.4	62.82	124.65	1.05	15.92	10282.66	24.09	0.002	60.91	0.37						5.32	19.69	26.86	29.10	786.09	280.28	488271.31	<2.816	4.72
LB025_323_zr2	21.07	109.42	224.23	0.89	23.69	9874.41	43.60	0.040	103.80	1.30		363.80 2	20.239 0			8.35	93.19	47.46	80.18	1425.62	480.68	487040.05	14.12	9.74
LB025_323_zr20	4.62	68.72	130.50	1.21	17.65	9998.38	25.73	0.004	63.89	0.40					_	5.47	20.81	28.45	30.28	837.68	292.94	488379.71	<2.831	5.56
LB025_323_zr21	5.36	60.71	127.01	0.88	13.66	10251.85	23.81	0.012	67.84	0.50						4.80	22.52	28.98	38.44	805.26	311.55	488043.16	31.61	6.11
LB025_323_zr22	6.47	69.32	171.06	0.73	12.37	8953.02	30.32	0.002	98.73	96.0				04 1.59		4.69	26.88	40.15	52.67	1048.82	433.90	488517.97	<2.723	8.35
LB025_323_zr23	303.54	466.47	776.29	1.42	121.74	9941.60	163.85	0.081	309.79	5.20				· ·		39.51	1150.81	169.90	403.71	6381.27	1508.13	477665.49	20.47	8.39
LB025_323_zr24	4.18	55.14	116.79	0.75	11.86	9771.32	22.29	0.003	63.26	0.44		_				4.22	16.80	26.29	29.81	737.95	287.12	488437.18	3.47	5.45
LB025_323_zr25	7.09	72.75	180.87	0.72	13.04	9116.46	32.53	0.001	101.39	0.90	0.59				_	4.88	30.37	41.86	50.62	1101.42	450.57	488296.16	6.29	8.71
LB025_323_zr26	3.32	43.99	95.47	0.66	10.33	9/81./6	17.43	0.017	52.70	0.41	0.67	249.95	0.022 0		1.54 0.14	3.33	12.86	21.56	23.53	596.65	233.98	488761.42	88.7	5.04
LB025_323_Zf2/	5.01	50.23	111.63	0.67	10.79	07.86.10	10 07	0.033	60.24	0.57	1.28					3.83	21.09	25.79	38.57	723.47	204.25	488335.70	15 77	9.87
LB023_323_2128	5 C	40.00 53.38	138 02	0.09	27:01	0310.35	24.02	0.00	84.05	20.02	0 52.0	241.00		5.5	1.07 0.20	3 75	10.12	33.07	27.07	831 33	365.07	488662.23	3.08	7 38
	**	II eler	*All elements are in ppm.	are i	ngg u	·	1		) !	,						;		)	;	)			;	2

Appendix C: Eastern Sunda arc zircon trace element chemistry

i	=	10.02	7.51	8.12	6.24	6.87	9.25	10.38	7.27	6.49	5.88	5.93	6.07	7.02	5.25	5.50	10.68	6.89	96.6	9.54	7.16	12.30	7.35	6.84	11.13	8.33	7.56	6.9	4.97	10.31	29.9	10.54	6.54	9.40	8.14	6.14	11.92	6.59	66.9	9.98	86.46	62.73	13.46	7.08	7.88	8.09	69.9	7.80
i	P	<3.102	3.83	5.31	<2.735	<2.715	<2.752	4.35	2.79	9.34	4.68	<2.941	5.49	2.97	<2.794	<2.739	<10.211	6.83	<13.082	<2.939	2.99	9.58	<2.606	7.63	82.49	29.90	<7.311	7.41	46.18	<7.301	<8.842	14.11	<2.674	7.03	<2.641	19.24	<6.472	<2.585	<2.592	30.13	10.38	11.58	118.55	<6.330	3.61	<2.585	<2.476	<2.595
ř	77	488005.05	488046.55	488360.06	489014.69	488012.92	486917.52	487507.53	488545.64	488054.30	488061.64	487765.99	488827.18	488894.92	489527.70	488509.99	467910.23	489116.78	483589.55	487581.54	484578.63	487637.80	488664.19	486889.57	465894.39	488067.69	487761.14	488526.50	481824.76	487463.54	487331.77	486094.56	488723.87	4877282	487703.10	485654.93	472617.06	486368.48	487446.20	479257.29	4804/2.42	467 390.55	476144.51	483158.33	487946.17	488535.72	487705.97	488133.06
Ś	ΥD	524.30	412.97	390.89	265.71	366.79	656.78	513.67	279.56	375.12	394.99	379.52	260.72	321.73	142.72	259.07	2787.05	243.26	911.74	546.47	840.33	592.86	415.47	693.98	3046.13	538.91	576.26	411.10	950.65	62.969	520.06	804.28	420.26	46.978	601.34	478.82	1944.30	491.14	248.84	1330.39	1161.01	10.7166	2044.92	796.42	505.69	429.12	529.62	500.22
;		1389.28	960.17	1014.61	633.59	952.36	1722.99	1520.91	733.63	1005.94	1081.78	886.12	581.56	719.38	341.20	658.77	12601.33	596.49	3095.69	1311.18	2838.82	1561.64	1035.18	1721.10	10936.38	1341.52	1471.69	1074.22	3033.01	1938.34	1458.84	2473.49	1182.32	1175.11	1548.37	1252.63	7583.35	1426.17	717.62	4838.98	4084.17	2123 93	7970.67	2499.80	1165.44	1008.61	1505.09	1169.34
,	0	60.02	52.04	54.96	35.34	46.25	80.76	67.14	30.99	46.24	45.22	57.34	30.91	29.50	14.32	29.75	385.63	28.10	140.14	69.99	115.66	50.94	39.54	50.69	572.16	61.14	72.31	37.85	172.60	83.07	65.20	103.19	31.31	02.11 86.18	71.03	63.92	1673.67	54.91	24.03	395.57	254.65	327 98	261.99	140.56	52.87	44.08	52.45	65.26
	E	49.58	37.18	37.10	23.95	34.23	62.25	51.06	26.18	35.41	37.65	34.80	23.39	29.28	12.82	24.28	331.87	22.63	100.89	50.19	84.72	61.04	39.88	67.13	350.49	52.03	58.36	42.25	104.88	73.35	54.22	88.01	41.66	29.02	57.67	46.38	231.26	50.94	25.71	157.40	134.78	79.61	249.27	89.70	45.72	39.77	50.98	45.60
i	=	43.99	22.86	36.54	18.18	29.26	59.81	62.63	18.18	31.58	31.08	26.28	12.08	12.07	7.50	16.49	669.52	15.28	179.67	35.69	139.42	39.48	24.90	17.81	539.78	43.05	41.40	24.13	132.09	70.63	50.56	111.91	26.86	12.10	48.93	28.59	2477.40	23.90	9.31	242.36	390.24	168.72	286.83	85.72	32.98	31.89	56.61	44.52
i	Ω_	7.52	4.10	5.12	3.33	4.97	8.72	9.97	4.24	5.80	6.70	4.37	2.60	3.24	1.80	3.82	105.15	2.95	22.44	2.90	20.50	8.12	5.25	7.98	64.82	6.34	6.53	5.55	17.71	9.17	7.67	17.23	7.48	77.0	7.88	5.91	46.45	7.70	3.62	29.94	21.06	08.67 10.0	55.54	13.92	5.13	4.95	66.6	5.23
ŀ	<u>a</u>	0.22	0.25	0.24	0.17	0.20	0.33	0.22	0.14	0.19	0.17	0.30	0.17	0.16	0.10	0.15	1.53	0.16	0.41	0.34	0.35	0.30	0.27	0.32	3.29	0.30	0.55	0.25	0.60	0.43	0.24	0.28	0.15	0.40	0.40	0.31	2.67	0.30	0.12	1.79	54.7	50.01	0.71	0.49	0.31	0.29	0.20	0.31
d	E	3.20	1.53	1.36	54. 54. £	2.02	2.20	5.52	2.03	2.41	3.43	1.59	1.17	1.08	0.79	1.95	61.57	1.02	16.06	2.12	13.00	<u>4</u>	1.59	2.53	20.67	2.23	2.51	1.77	5.60	2.87	2.88	8.77	3.86	2 4	2.93	1.85	19.79	2.28	1.29	9.56	96.7	28.52	22.83	4.11	1.95	1.56	6.29	1.85
i	Ì	0.07	0.03	0.03	0.03	0.05	0.05	0.17	0.05	0.05	0.10	0.02	0.02	0.03	0.02	0.04	1.46	0.01	0.57	0.03	0.35	90.0	0.04	0.04	0.30	0.06	0.02	0.04	0.23	0.07	0.21	0.27	0.09	0.03	0.08	0.03	0.35	0.02	0.02	0.18	81.0	0.05	0.38	0.06	0.05	0.03	0.17	0.04
i	£	0.618	0.010	0.023	0.008	0.012	0.035	0.038	0.053	0:030	0.016	0.014	0.008	0.047	0.005	0.008	0.301	0.008	0.140	0.107	0.064	0.031	0.009	0.020	0.533	0.121	0.029	0.019	0.128	0.043	0.031	0.063	0.012	0.030	0.029	0.077	1.927	0.023	0.012	0.251	0.387	0.267	0.654	0.159	0.119	0.017	0.023	0.017
	<b>.</b>	323.74	284.14	264.11	211.93	219.64	384.71	335.26	192.65	266.78	254.42	233.21	205.43	262.11	130.37	272.32	2200.19	198.30	759.40	345.99	443.25	361.29	252.83	385.63	2527.68	299.67	317.25	286.39	996.90	349.90	445.96	364.45	184.03	357.80	298.30	397.27	649.63	399.82	227.56	1037.53	847.09	673.21	1238.25	780.73	282.31	269.05	262.65	261.25
3	Na	1.31	0.59	0.63	0.62	0.94	0.94	3.03	1.06	1.16	1.47	0.63	0.32	0.42	0.36	0.56	24.86	0.31	9.52	0.88	6.27	1.14	0.67	0.71	6.89	1.08	0.98	0.92	2.19	0.97	1.85	4.91	1.82	0.93	1.41	0.39	7.50	0.52	0.34	3.57	2.87	0.86	7.85	1.98	0.75	0.71	2.85	0.70
i	QN	0.94	0.93	0.93	0.57	0.72	1.28	0.70	0.48	69.0	0.63	0.91	0.54	69.0	0.29	0.43	90.9	0.52	1.14	1.09	1.36	1.32	0.87	1.16	11.02	1.19	1.65	0.77	1.97	1.62	0.93	1.01	0.42	00.	1.18	0.89	5.68	0.93	0.53	4.03	38.5	3.03	2.90	1.26	1.18	1.06	0.68	1.30
-	3	115.72	95.67	84.63	61.69	80.90	145.06	112.85	62.95	82.87	85.24	87.20	62.08	76.11	32.53	58.58	558.78	55.82	215.22	124.73	167.80	142.58	92.29	150.19	628.02	119.54	141.83	101.26	202.54	165.25	123.99	176.44	88.33	104.49	130.05	95.43	373.09	98.46	50.25	273.30	229.79	177.36	418.09	176.76	118.56	101.03	117.16	114.97
-	E	0.012	0.005	0.009	0.001	0.001	0.010	0.061	0.008	0.005	0.024	0.003	0.001	90000	0.003	0.001	0.123	0.004	0.055	0.000	0.025	0.034	0.001	0.037	0.030	0.060	0.005	0.017	0.426	0.001	0.267	0.060	0.004	0.00	0.002	0.002	0.033	0.001	0.014	0.058	0.013	0.30	0.068	0.023	0.022	0.003	0.019	0.001
· [	운	41.26	27.42	29.85	18.52	28.39	50.35	45.90	21.90	29.99	32.92	25.93	16.52	20.90	9.91	19.79	404.54	17.65	94.64	38.03	85.99	47.16	31.22	52.01	336.71	39.90	43.04	31.73	96.26	55.42	43.99	78.00	37.69	30.04	46.17	38.68	224.20	45.60	22.72	149.76	118.02	50.37	256.42	79.93	33.85	30.65	45.57	34.42
1	Ē	8848.31	9780.31	9338.52	9439.70	10072.61	9380.07	9221.70	9925.01	9773.43	9648.18	10446.84	9802.08	9256.13	9650.27	9922.26	7726.80	9427.92	9927.83	9463.71	10101.23	8833.08	8923.53	9421.38	12233.69	8832.63	8970.79	8940.70	11725.82	8318.45	9292.87	8921.87	8767.88	8570.83	8942.92	12044.89	12665.60	10823.01	11381.70	11249.80	7005.05	14030 16	8622.47	11756.73	9440.27	9058.46	9181.09	9230.86 <b>n.</b>
3	5	20.32	11.19	14.78	9.33	14.20	22.96	31.86	12.61	17.35	20.68	11.65	7.15	7.96	5.44	11.33	347.05	7.82	79.37	14.58	90.99	20.83	14.34	19.92	174.14	16.53	16.87	14.61	4.8 4	24.24	23.17	52.00	22.58	5.7	21.34	15.55	129.40	20.59	9.83	78.36	53.09	21.73	157.33	35.49	13.01	13.65	32.11	15.08 in ppi
i	2	1.35	0.64	0.75	0.59	0.80	1.22	2.15	92.0	1.15	1.39	0.65	0.47	0.58	0.38	29.0	10.89	0.51	5.96	0.84	3.93	1.18	0.80	0.65	1.55	1.03	0.84	0.88	0.59	1.37	1.44	3.45	1.61	27.0	1.24	0.33	0.61	0.42	0.19	1.38	0.31	0.40	4.41	0.52	0.89	0.85	2.69	o.88 S are
i	נֿו	221.24	159.55	160.47	103.97	150.89	278.11	232.57	115.71	155.45	168.46	147.46	96.28	122.98	55.64	106.20	1795.56	98.65	465.83	212.21	413.86	260.17	173.79	293.93	1656.18	225.75	243.27	178.07	485.74	306.19	229.97	389.27	193.84	105.01	251.60	211.24	1092.65	238.15	118.03	747.29	613.16	326.15	1174.31	402.74	193.87	169.71	235.03	195.07 ement
-	ń	99.85	61.63	71.79	37 98	67.94	120.46	121.52	54.86	75.69	85.02	58.88	37.61	47.90	24.50	49.63	1193.44	41.92	264.93	86.33	237.83	110.25	73.07	119.73	843.66	93.92	96.65	75.10	232.48	134.19	105.14	211.10	94.90	22.72	109.76	90.28	589.22	108.96	54.15	381.88	290.72	137.06	674.82	187.41	78.36	70.05	121.15	*All elements are in ppm.
d	3	8.44	6.35	7.57	4.55	6.59	10.84	10.18	4.60	09.9	6.64	6.89	3.87	4.11	2.60	4.34	210.19	4.23	23.71	8.32	24.05	8.38	5.58	4.75	78.77	8.23	8.70	5.47	15.58	12.84	9.31	13.51	5.03	9. 4	. 85	6.12	25.19	5.91	2.98	29.16	35.97	18 48	31.59	11.56	9.00	7.92	9.57	9.19
9	Analysis ID	LB025_323_zr3	LB025_323_zr30	LB025_323_zr31	LB025_323_zr32 LB025_323_zr32	LB025 323 zr34	LB025_323_zr35	LB025_323_zr36	LB025_323_zr37	LB025_323_zr38	LB025_323_zr39	LB025_323_zr4	LB025_323_zr40	LB025_323_zr41	LB025_323_zr42	LB025_323_zr43	LB025_323_zr44	LB025_323_zr6	LB025_323_zr7	LB025_323_zr8	LB025_323_zr9	LB032_326_zr1	LB032_326_zr10	LB032_326_zr11	LB032_326_zr12	LB032_326_zr13	LB032_326_zr14	LB032_326_zr15	LB032_326_zr2	LB032_326_zr3	LB032_326_zr4	LB032_326_zr5	LB032_326_zr6	LB032_326_217	LB032 326 zr9	LB033_327_zr1	LB033_327_zr10	LB033_327_zr2	LB033_327_zr3	LB033_327_zr4	LB033_327_zr5	LB033_327_276	LB033 327 zr8	LB033_327_zr9	LB034_328_zr1	LB034_328_zr11	LB034_328_zr12	LB034_328_zr13

Appendix C: Eastern Sunda arc zircon trace element chemistry

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Analysis ID	පී	ģ	ū	Eu	gq	ŧ	Но	Гa	3	Q N	PN	<b>a</b>				Q.	Ē	Ē	-	<b>-</b>	Υb	Zr	Fe	Ē
LB034_328_zr15	00.9	54.78	142.53	0.70	10.10	8927.04	24.55	0.003	89.78	0.91		243.56			1.45 0.22	3.76	17.46	35.05	33.83	837.75	384.83	488965.39	<2.505	7.82
LB034_328_zr16	5.77	49.10	127.95	0.62	9.27	9269.74	21.70	0.001	82.42	0.74	0.45	255.26	0.009	0.02		3.55	19.11	31.47	33.34	753.15	347.10	488826.13	<2.556	7.02
LB034_328_zr17	9.36	83.09	203.67	0.97	14.86	9341.83	35.97	0.003	121.54	1.28	0.79	349.84				5.60	35.36	48.23	55.18	1217.54	523.08	487803.64	<2.523	7.59
LB034_328_zr18	3.92	37.58	88.24	0.69	8.82	9682.21	15.63	0.001	54.75	0.42		160.51				2.94	12.98	20.63	22.14	533.30	230.48	489105.09	<2.512	5.03
LB034_328_zr19	5.92	64.19	134.04	1.35	16.43	9592.70	24.99	0.007	74.74	0.51		220.32			2.89 0.12	5.38	30.09	30.51	35.56	842.31	330.25	488545.95	<2.684	4.96
LB034_328_zr2	7.52	77.36	173.07	1.22	18.13	9813.88	31.99	0.004	101.97	0.74		306.67				6.04	36.64	40.57	48.48	1055.81	431.88	487822.84	<2.609	5.49
LB034_328_zr20	6.79	55.04	138.43	0.64	9.79	9688.13	24.04	0.002	86.36	1.01		230.49		0.03		3.81	27.78	32.65	46.42	821.00	371.11	488436.78	<2.502	7.10
LB034_328_zr21	11.66	107.00	259.37	1.15	18.24	9207.35	46.59	0.001	148.76	1.48		383.50			2.30 0.42	7.23	48.74	60.75	06.69	1570.59	649.02	487255.77	<2.544	9.34
LB034_328_zr22	12.30	110.00	259.87	1.39	20.90	9269.36	46.70	0.001	141.74	1.25		352.65				8.04	56.34	59.65	66.69	1555.17	637.44	487289.05	<2.492	9.10
LB034_328_zr23	6.73	67.35	155.71	0.94	14.13	9258.53	28.70	0.005	93.06	0.83		283.63				4.89	28.23	36.69	40.78	943.14	396.26	488471.23	4.12	7.17
LB034_328_zr24	19.08	211.20	389.52	4.75	59.52	9078.43	78.68	0.025	187.41	1.12	.,	391.78		•		18.04	112.00	87.01	90.68	2627.27	884.08	485654.20	45.62	7.37
LB034_328_zr25	10.02	93.77	218.77	1.32	18.72	9200.74	39.69	0.003	122.91	1.08		296.33				6.80	39.93	50.56	53.45	1329.54	540.92	487854.19	<2.504	8.51
LB034_328_zr26	9.62	88.51	219.70	0.97	15.32	8910.40	38.77	0.003	126.96	1.26		325.97				6.09	33.92	52.08	53.88	1307.09	553.81	488033.96	<2.439	9.78
LB034_328_zr27	4.84	40.02	89.87	0.50	7.62	9225.24	17.31	0.005	65.38	69.0		187.83				2.76	14.48	24.08	28.57	599.28	277.69	489262.45	<2.474	6.78
LB034_328_zr28	4.70	36.44	92.37	0.44	6.53	9465.39	16.42	0.001	57.80	0.62		203.29			0.97 0.17	2.60	16.56	22.26	27.57	548.15	248.75	489141.46	<2.533	26.9
LB034_328_zr29	4.97	54.28	120.76	0.91	12.99	9851.72	22.23	0.002	70.76	0.50		201.76		0.06 2.		4.26	18.24	28.14	29.85	733.89	306.82	488556.95	<2.673	5.49
LB034_328_zr3	7.99	76.18	191.20	1.02	14.23	8782.50	33.63	0.007	114.84	1.10		306.02				5.26	27.19	44.68	44.66	1133.20	482.43	488465.42	<2.593	9.57
LB034_328_zr30	3.76	28.45	68.97	0.36	5.66	9164.13	12.28	0.002	42.73	0.50	0.17	175.70				2.09	11.40	16.37	19.55	402.20	180.90	489678.39	<2.553	6.74
LB034_328_zr34	7.17	71.48	172.29	0.99	14.98	8877.49	30.92	0.003	100.63	0.81		301.60				5.21	26.19	40.22	40.67	1020.65	433.00	488595.07	<2.532	7.84
LB034_328_zr5	5.10	44.62	115.60	0.65	8.70	9562.96	19.56	0.021	78.16	0.63		222.24				3.25	17.77		33.56	90'.289	322.97	488766.40	8.32	7.17
LB034_328_zr6	8.19	86.29	199.71	1.23	17.40	9034.55	36.43	0.005	116.62	1.03		299.31				6.22	34.78		50.66	1209.63	503.60	488162.24	<2.535	8.90
LB034_328_zr7	6.54	47.64	121.36	0.86	10.64	9205.64	20.67	0.076	74.14	0.62						3.28	26.49		36.41	718.02	305.10	488339.34	<5.186	9.06
LB034_328_zr9	09.9	62.95	155.83	0.70	11.49	9142.47	27.40	0.001	93.95	0.94			0.005	0.03			23.43		38.44	920.01	400.72	488640.02	<2.592	8.52
LB041_330_zr1	12.79	90.40	199.50	1.18	19.62	9633.10	36.98	0.038	110.72								51.53		62.92	1226.54	485.49	487731.99	<2.938	7.50
LB041_330_zr10	41.24	292.52	544.84	6.57	81.91	10055.75	109.15	0.066	279.54		7.55	485.28					241.22	•	189.49	3589.62	1173.22	482942.80	106.23	9.05
LB041_330_zr11	57.85	398.68	29.969	10.31	117.39	9312.37	142.15		350.02							35.89	344.26			4844.77	1475.36	481077.58	<6.523	7.53
LB041_330_zr12	32.20	222.41	441.40	4.41	55.99	9377.67	84.55		245.44	1.87						18.61	188.07			2811.22	994.73	484609.03	<6.724	6.02
LB041_330_zr13	34.41	222.66	428.30	3.11	51.80	9878.19	86.39		220.60	2.58	•		0.062	9 60.0		17.82	173.50	97.30	155.34	2847.84	935.72	484654.22	<6.406	10.14
LB041_330_zr14	3.85	36.39	81.10	0.59	7.36	10177.06	14.76	0.001	54.91	0.42						2.61	11.34			503.84	227.35	488733.54	<2.428	3.06
LB041_330_zr15	5.77	53.92	115.18	0.99	12.92	9670.46	21.52	0.015	99:59	0.45						4.20	22.69			709.85	295.48	488727.85	<3.139	4.69
LB041_330_zr16	17.25	127.26	269.01	1.68	26.44	9189.62	51.85	0.061	137.71	1.82		315.50	0.053	0.08		9.56	77.28	06.09	93.26	1738.22	630.18	485790.11	1044.13	17.44
LB041_330_zr17	4.84	23.86	54.14	0.29	4.82	10370.36	9.85	0.002	33.28	0.45					0.56 0.14	1.71	17.98	13.09	31.72	335.81	143.56	488961.85	<2.464	4.20
LB041_330_zr19	3.06	14.87	36.01	0.18	3.03	9866.32	6.38	0.001	23.33	0.40		112.54 <	<0.002			1.1	8.77	8.65	17.29	216.77	99.61	489593.98	<2.498	5.33
LB041_330_zr2	22.80	181.37	368.13	3.08	42.14	9224.16	71.40	0.001	189.36	1.63						14.65	125.57	83.27	105.51	2373.17	798.42	486033.75	<6.700	11.37
LB041_330_zr20	4.45	31.85	77.05	0.53	6.33	9887.63	13.55	0.016	50.36	0.57			0.008	0.02 0.		2.19	13.87	18.71	29.46	471.26	212.11	489101.54	5.54	4.24
LB041_330_zr22	5.37	48.33	108.72	0.70	10.08	9294.53	19.70	900.0	66.65	0.50						3.73	17.42	26.16	30.91	672.03	287.73	489033.27	<2.511	3.55
LB041_330_zr23	7.59	56.87	150.80	0.84	10.03	8855.94	25.77	0.001	93.47	1.08	0.62				1.55 0.28	3.73	22.55	36.31	45.15	882.74	394.33	489019.62	<2.534	6.91
LB041_330_zrz4	67:11	88.18	189.2/	80:	17.65	9290.03	35.60	0.002	104.37	1.28		216.53				6.40	43.68	43.09	28.38	1194.45	457.76	488189.13	0/5.2>	8.23
LB041_330_zr25	67.08	450.94	756.80	12.32	145.94	9269.88	158.18	0.096	358.51	3.32		797.63	0.104	1.11 47.	47.87 0.60	41.38	379.24	165.59	239.97	5313.32	1562.72	480338.24	<7.084 6.477	9.45
LB041_330_2120	0.00	131.17	200.11	20.7	- 00	0972.93	70.64	0.00	20.02	39 4 AF	4. 6	204.59		`		0.00	00.73	07.03	00.10	4740.60	70.00	46/043.10	0.400	1.07
LB041_330_zf2/	- 6.00	340.95 75.45	177 22	4 .0	90.39	9010.40	31.00	0.024	323.13	64.43	·	709.03				787	38.24	04.6	514.93	1066.42	746 58	461433.61	V0.400	7.18
I BO41 330 zr20	00.0	20.05	116.44	99	10.02	9007.10	21.50	0.00	0,00	0.30		203.80				5 6	25 12	27.64	36.17	700.42	308.00	48852484	25.57.5 57.586	
LB041 330 zr3	10.68	91 74	146 73	2 69	27.05	8998 28	31.34	0.001	78.76	62.0	•	189.57				9.37	46.63	33.57	46.79	1062.54	325.74	488755 42	<6.768	5.03
LB041 330 zr30	17.86	160.91	307.53	3.15	43.18	9917.77	61.58	0.044	159.48	1.02	3.30	336.99				13.29	84.91	71.27	85.43	1947.00	674.86	486235.29	<8.534	6.39
LB041 330 zr31	51.04	371.21	615.85	9.21	117.53	9399.91	131.49	0.008	261.36	3.15		552.35		N		34.92	478.06	130.73	224.92	4294.75	1182.09	482347.92	<6.318	13.60
LB041 330 zr32	15.66	118.71	258.02	1.62	25.74	9505.69	49.06	0.010	140.85	1.27	.,	356.78			_	8.88	129.34	59.23	125.02	1621.75	629.10	486940.10	<2.607	7.54
LB041_330_zr33	16.93	117.45	261.01	1.77	25.14	9350.01	49.70	0.001	145.69	1.20		384.41	0.019			8.96	77.52	59.92	97.89	1607.09	646.49	487057.35	<2.594	4.79
LB041_330_zr34	11.59	82.69	203.02	1.20	16.14	9557.19	36.31	900.0	131.00	1.09		376.14	0.043	0.04 2.	2.40 0.27	6.31	57.91	50.49	79.54	1224.58	514.04	487546.62	<6.530	5.72
LB041_330_zr35	34.39	210.17	416.70	2.94	45.50	9708.16	81.10	0.014	213.46	2.56	2.01	356.18	0.069	0.09 5.	5.23 0.53	16.64	159.60	94.54	146.20	2701.88	914.06	485094.03	<6.307	10.98
	*	مام ۱۱۱	*All elements are in nnm	are	n nnn	_																		
	•	)	;	5	- 7 Y	4																		

Appendix C: Eastern Sunda arc zircon trace element chemistry

F		4.92	3.39	6.32	7.91	4.67	7.51	8.11	7.29	9.01	10.46	9.48	6.12	7.77	7.45	10.26	8.24	9.02	7.16	9.96	7.37	8.45	29.9	12.36	6.01	6.64	5.80	9.66	7.15	8.83	6.27	5.35	10.59	‡ 4	0.30	8.19	9.01	7.43	9.66	4.86	7.41	7.02	18.16	10.00	10.67	31.37	0.40	7.83	8.20
ā	Þ	<2.573	<2.500	<6.787	<6.5 <i>1</i> 7	8.07	<2.875	2.98	3.55	<6.224	74.02	30.01	27.05	13.95	22.85	6.68	80.606	7.07	7.15	62.80	<2.641	<2.727	41.45	19.47	37.17	5.36	<4.521	12.46	11.89	10.51	18.16	22.57	95.23	00.20	6.25	3.04	21.94	<2.726	27.32	<2.883	2.06	<7.038	62.15	10.07	15.20	4136.15	8.30 0.30	<8.168 14.00	0.4.
ż	1	484911.46	488683.22	488358.49	486268.96	488589.44	488695.42	488685.70	488634.36	488434.02	488452.75	487089.01	487647.54	488999.90	488376.57	488310.92	487418.23	488892.23	487831.82	488612.72	488775.95	488129.68	488023.90	488324.54	488201.65	487624.64	488760.85	489068.46	488492.57	488496.86	488193.98	487882.87	488636.61	400100.10	486194.34	488918.82	489008.35	489010.91	485462.30	487613.66	484189.59	484490.86	471653.97	466023.09	488529.77	463758.89	480338.94	483512.62	480101.27
\$	2	863.78	348.91	318.36	734.13	342.21	278.71	380.20	340.53	394.84	335.12	604.71	487.11	330.18	369.42	488.09	361.01	369.18	447.38	406.53	351.38	435.18	488.61	473.92	446.11	465.58	281.65	298.39	306.78	417.49	316.96	379.62	201.97	261.01	753.55	195.27	324.01	325.42	786.62	534.90	881.83	994.53	1381.27	00.877	204.09	27.30.02	4052 47	1053.47	736.13
>	-	2568.19	800.36	808.45	1937.51	835.34	641.19	907.85	856.72	926.01	864.14	1636.63	1199.50	761.12	928.77	1130.97	856.11	776.39	1238.27	958.27	815.07	1161.09	1317.53	1090.10	1240.29	1263.57	200.00	62.099	738.32	29.026	808.70	1051.41	492.70	20.44.02	1947 72	446.66	744.68	718.16	2328.27	1346.32	2397.62	2771.75	9115.90	600.00	099.87	1752 51	1753.51	3285.46	2183.92
, =	•	119.74	41.15	51.74	113.86	40.66	33.67	43.43	33.66	44.00	35.75	79.64	99.09	32.26	40.49	25.97	37.65	38.99	38.14	43.45	37.43	46.02	53.10	54.12	49.54	59.16	27.66	30.40	29.98	44.45	32.70	38.84	29.78	24.04	93.37	28.86	48.32	34.54	103.36	02.09	138.40	184.82	349.56	00.00	18.82	134.34	134.24	273.28	21.12
£	Ē	83.87	31.46	31.73	73.77	31.56	25.23	34.98	31.46	37.76	33.28	62.52	47.14	30.04	35.95	44.32	33.08	32.25	43.74	37.82	31.55	41.24	47.87	45.95	46.28	44.19	26.10	27.64	30.00	37.95	30.55	37.56	19.98	27.72	72.72	17.53	29.23	29.27	83.52	51.01	92.48	103.40	186.35	0.01	27.20	313.7b	14 60.11	115.04 70.06	7 6.90
4	<b>=</b>	127.40	25.16	37.68	32.57	28.86	23.62	32.31	25.88	26.01	27.90	79.88	45.01	21.06	29.97	37.78	25.28	20.38	34.22	32.43	24.81	42.11	53.21	31.95	50.38	52.39	19.39	15.78	20.25	36.51	31.16	32.87	21.96	26.33	86.18	18.79	47.12	21.43	102.03	31.63	73.81	183.72	1158.02	09:00	0.83	122 00	133.80	418.78	76.20
£	2	16.62	4.21	4.14	9.86	4.67	3.15	4.33	5.04	4.37	5.05	8.38	6.25	3.65	4.92	4.93	4.33	3.27	7.84	4.78	4.12	7.09	8.35	4.55	8.07	8.13	3.95	3.25	4.37	4.97	5.36	6.47	2.51	95.4	6, 6	2.07	3.97	3.41	13.39	6.81	11.90	13.99	110.73	4 6	3.30	57.36	04.0	19.58	50.51
ē	5	0.35	0.13	0.22	0.57	0.26	0.21	0.24	0.20	0.26	0.23	0.41	0.24	0.20	0.18	0.35	0.28	0.26	0.20	0.27	0.21	0.18	0.21	0.33	0.11	0.24	0.13	0.25	0.16	0.22	0.13	0.16	0.17	0.00	0.45	0.20	0.27	0.25	0.20	0.17	0.32	0.40	2.11	0.40	0.08	18.0	62.0	0.42	ZI.0
S	5	10.12	1.40	£ 5	2.81	191	1.08	1.53	2.33	1.35	2.30	3.25	2.51	1.50	2.24	1.75	1.99	1.26	3.50	2.07	2.15	3.53	4.13	1.68	4.70	4.43	1.93	1.30	1.81	1.86	2.66	3.67	1.13	5 5	2.65	0.73	1.96	1.12	6.10	2.28	3.11	4.65	95.98	0.1	0.71	19.78	4.2	8.46	67.4
à	_	0.28	0.02	0.03	90:0	0.05	0.03	0.04	90.0	0.04	0.11	0.08	0.07	0.05	0.04	0.05	0.07	0.03	0.10	90:0	0.0	0.11	0.14	0.03	0.11	0.12	0.04	0.01	90.0	0.07	90.0	0.09	90:0	50.0	0.02	0.02	0.04	0.04	0.15	0.04	0.03	0.05	4.67	9 6	0.00	0.46	0.02	0.13	2
4	2	0.050	0.007	0.009	0.035	0.012	0.026	0.021	0.023	0.013	0.082	0.030	0.029	0.010	0.023	0.015	0.013	0.026	0.019	0.014	0.007	0.031	0.020	0.052	0.045	0.044	0.011	0.042	<0.010	0.016	0.033	0.022	0.034	0.002	0.012	0.034	0.056	0.008	0.209	0.031	0.110	0.194	1.148	0.230	0.230	0.811	0.190	0.442	0.150
۵	L	308.38	279.39	207.34	332.56	205.01	189.15	241.47	194.74	264.54	276.37	417.54	452.56	244.07	242.38	296.50	306.82	225.91	271.14	225.29	200.02	227.40	350.37	324.48	468.27	275.15	225.37	224.50	229.41	251.41	295.33	249.06	260.48	240.06	613.42	187.86	205.62	222.64	413.06	335.28	868.75	581.13	1173.75	250.07	259.90	407.75	52.104	330.30	330.23
3	2	5.30	0.55	0.76	1.25	1.00	0.39	0.67	1.10	0.68	1.00	1.21	1.07	0.81	0.77	0.76	1.01	0.51	2.10	0.97	0.78	1.86	2.13	0.68	2.55	1.93	0.52	0.56	0.82	1.13	1.38	1.86	0.68	20.0	1.00	0.41	0.78	0.67	2.95	0.85	1.00	1.20	67.59	9 0	7.03	7.03	0.80	3.11	7.0.7
£	2	1.31	0.56	1.08	2.72	0.80	0.74	06:0	0.64	0.97	0.64	1.68	0.99	0.72	0.71	1.20	0.75	0.91	0.58	0.87	0.79	0.79	69.0	1.33	0.71	0.82	0.45	92.0	0.46	0.87	0.51	0.53	0.60	20	1 88	0.63	0.93	0.73	0.63	0.48	0.82	1.48	7.02	5.00	0.49	3.50	. 6.	2.12	0.50
=	3	184.26	82.31	82.11	180.05	76.39	64.58	88.96	75.78	101.85	82.77	148.93	124.48	76.06	93.48	112.81	82.99	88.23	94.16	93.65	81.00	95.65	117.52	121.30	113.51	100.70	63.26	75.72	76.36	94.45	76.30	90.03	51.28	20.02	171 13	47.07	75.48	76.70	179.24	114.01	204.53	221.99	228.28	64.06	01.90	144.62	141.82	221.75	100.73
-	5	0.016	0.002	0.001	0.001	0.032	0.008	0.003	0.003	0.001	0.139	0.004	0.008	0.044	0.001	0.003	0.049	0.008	0.010	0.024	0.002	0.031	0.023	0.011	0.033	0.095	0.001	0.004	0.024	0.067	0.004	0.001	0.061	0.032	0.003	0.008	0.004	0.003	0.013	0.016	0.001	0.001	0.512	4 0.0	0.008	0.542	0.00	0.002	ccn.0
<u> </u>	2	75.95	23.51	23.48	26.50	25.82	18.46	26.79	26.40	25.85	26.09	48.76	34.50	22.00	27.30	32.59	24.42	21.98	38.93	28.29	23.55	35.27	39.46	31.64	36.46	38.44	21.81	19.16	21.56	29.21	24.23	31.35	14.30	10.12	58 12	12.69	22.34	21.08	70.19	40.16	71.63	83.67	278.45	7: 40	20.08	538.09	93.09	96.90	47.70
Ť	<b>=</b>	10456.07	9306.24	9917.57	9829.16	9551.98	60.9886	9164.87	9502.35	9392.53	9379.88	9179.25	9286.57	9055.58	9517.47	8989.99	9218.49	9172.75	9570.02	9076.32	9367.15	9433.17	8823.76	8947.52	8467.07	9739.30	9613.50	9220.33	9828.76	9213.16	9893.91	9936.11	9949.81	97.00.7.3	9319.22	10027.97	9115.01	9193.97	9927.08	9422.75	10235.15	9695.31	12317.74	90.90	9839.98	10432.92	9906.77	9756.15	9597.55
5			11.96	12.36	24.52	14.54	8.58	12.03	14.84	10.31	14.56	23.29	16.52	9.68	12.79	13.08	12.20	8.98	23.85	13.57	11.18	21.43	27.25	12.85	24.13	23.91	11.87	8.83	12.17	14.59	15.71	20.16	7.70	12.72	24.70	6.07	11.57	9.05	41.00	18.38	27.49	38.30	414.66	30.23	0, 0, 10 0, 10	24.78	24.24	57.61	n ppm
ā	3	4.08	0.80	0.91	1.60	0.91	0.45	92.0	96.0	0.72	0.87	1.22	1.10	69.0	0.95	0.85	0.83	0.62	1.43	0.95	0.78	1.27	1.92	0.74	2.30	1.34	0.85	0.56	0.92	0.87	1.35	1.27	0.41	- 7.0	1.25	0.36	0.83	0.55	1.71	0.74	0.72	1.1	2.44		67.0	2.00	0.73	2.12	are i
ù	j	380.15	133.84	129.47	314.55	135.44	107.20	149.82	138.69	153.63	142.06	261.98	194.05	125.65	148.25	185.89	137.61	130.52	199.25	159.64	132.02	185.62	206.19	181.95	194.08	198.23	113.65	109.94	120.38	160.18	130.22	164.79	79.99	124.00	316.41	73.02	121.42	120.75	368.90	221.07	398.18	444.14	1038.82	446.79	110.49	15000.11	405.00	495.28	nents
2	ŝ	203.13	55.44	56.86	137.97	64.35	43.01	61.20	63.88	59.45	63.17	113.11	85.42	50.04	64.58	72.37	56.93	49.43	97.92	92.79	25.60	87.37	100.64	68.79	97.42	99.14	51.55	44.49	51.92	70.03	63.08	79.41	33.35	20.20	133.92	29.33	53.70	46.53	175.95	94.67	163.57	197.76	1027.91	20.10	740.67	125 64	40.021	254.99	*All elements are in ppm.
9	Ď	23.69	6.55	8.90	22.51	8.00	6.74	7.96	6.45	7.96	7.02	15.64	8.61	6.41	6.92	8.81	6.65	6.30	7.83	7.89	98.9	8.86	9.56	8.96	9.53	9.75	4.85	5.82	6.14	7.50	5.84	6.88	6.09	0.07	15.37	4.98	7.87	6.05	9.37	4.12	7.03			0.00	21.7	38.43	0.00	18.43	
Analysis ID	All dilysis in	LB041_330_zr4	LB041_330_zr5	LB041_330_zr6	LB041_330_zr/	LB041 330 zr9	LB042 331 zr1	LB042_331_zr10	LB042_331_zr11	LB042_331_zr12	LB042_331_zr13	LB042_331_zr14	LB042_331_zr15	LB042_331_zr16	LB042_331_zr17	LB042_331_zr18	LB042_331_zr19	LB042_331_zr2	LB042_331_zr20	LB042_331_zr21	LB042_331_zr22	LB042_331_zr23	LB042_331_zr24	LB042_331_zr25	LB042_331_zr26	LB042_331_zr27	LB042_331_zr27	LB042_331_zr28	LB042_331_zr29	LB042_331_zr3	LB042_331_zr31	LB042_331_zr32	LB042_331_zr33	LB042_331_214	LB042_331_zr6	LB042_331_zr7	LB042_331_zr8	LB042_331_zr9	LB045_332_zr1	LB045_332_zr10	LB045_332_zr11	LB045_332_zr12	LB045_332_zr13	LB045_332_ZI14	LB045_332_ZFI5	LB045_332_ZF16	LB045_332_ZF17	LB045_332_zr19	LBU45_332_212

Appendix C: Eastern Sunda arc zircon trace element chemistry

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	F	6.03	2.47	10.95	9.46	4.46	4.77	5.89	10.54	6.98	99.6	4.58	10.67	4.09	4.56	6.94	5.92	4.37	11.61	8.30	4.74	7.33	9.52	4.82	5.65	7.96	2.97	5.14	2.97	6.58	9.04	8.66	4.98	7.81	3.34	5.04	9.10	9.91	7.80	3.11	5.37	5.09	8.62	6.33	7.01	2.90	12.55	4.05	9.04	
	Fe	<2.734	5.49	<2.842	<7.001	<6.989	108.63	3.20	<2.775	<2.793	<2.757	<2.889	5.87	<7.458	<3.741	4.07	<3.396	<2.834	<3.089	10.69	<2.812	<2.865	<2.731	<2.855	<2.893	<2.824	<2.877	<2.772	<2.969	<3.036	<3.162	<2.770	<2.788	3.87	4.45	3.86	<7.876	3.73	<2.758	<2.791	<2.813	<2.816	<2.832	30.19	<2.455	25.38	1446.99	234.33	8.02	
	Zr	488318.35	486341.71	487860.47	486893.12	488895.05	489277.76	489721.03	487750.95	489175.16	488331.52	489156.70	487736.84	488447.17	489442.82	488984.74	489053.64	488747.36	487236.84	486535.58	488051.47	488484.40	488655.75	489152.42	489175.12	489290.69	488858.24	489344.99	488466.43	489791.27	488244.63	489077.89	489226.29	489079.06	489303.34	489339.73	484468.78	487976.08	488560.56	488937.52	487889.63	489408.47	487972.13	488967.52	484809.05	488940.53	474747.50	482360.73	483361.57	
	Yb	231.33	193.88	548.34	563.28	93.12	186.15	209.95	269.60	284.62	483.92	175.92	597.49	184.05	89.63	305.72	243.55	186.78	630.99	556.70	346.11	358.52	449.31	267.78	278.94	296.16	272.30	124.98	405.38	140.50	521.90	356.21	184.76	321.41	150.59	153.86	693.98	550.34	424.79	77.46	445.07	169.25	540.64	135.88	1131.60	179.55	1622.74	329.50	752.28	
	٨	601.03	460.65	1408.20	1481.04	210.50	421.03	447.48	1441.05	640.07	1245.40	360.80	1557.49	438.23	204.91	819.40	559.04	455.10	1802.07	1575.28	956.37	807.27	1112.14	662.61	692.01	668.95	681.27	273.42	1126.48	329.60	1218.07	843.55	457.33	801.11	380.24	365.14	2328.01	1370.46	90.926	179.33	1205.17	379.41	1313.42	272.23	2669.06	382.05	5104.38	635.65	1618.79	
,	Π	35.33	190.85	98.58	125.45	16.14	29.47	29.65	87.81	39.25	73.91	30.80	100.73	53.30	25.15	47.89	42.10	31.85	114.13	85.57	69.73	52.58	62.89	36.20	41.66	44.44	35.23	17.91	55.76	23.63	85.69	50.91	26.41	41.02	26.52	25.93	299.17	82.88	63.16	31.04	67.52	30.04	85.43	40.28	221.60	32.09	1020.35	567.72	581.52	
	Tm	22.05	17.69	51.66	35.86	8.31	16.57	18.63	54.25	25.68	45.92	15.00	57.16	17.21	7.99	29.54	22.09	17.32	61.93	55.54	33.11	32.93	42.07	24.37	25.67	26.69	24.88	11.13	39.03	13.00	47.86	33.17	16.72	30.61	13.80	13.74	74.47	52.91	38.64	96.9	43.14	14.84	49.98	12.30	107.63	16.31	170.78	29.39	68.93	
	Th	12.57	98.86	65.53	92.11	5.85	14.29	11.31	53.03	16.58	47.76	11.43	76.51	21.52	12.16	31.52	22.05	15.26	112.31	51.91	41.64	22.77	41.10	22.33	27.21	20.25	21.34	6.75	42.96	12.06	42.56	26.10	13.66	22.94	11.69	11.86	297.88	47.12	31.02	14.00	56.69	12.02	45.28	16.41	275.14	9.46	1586.80	403.56	688.47	
	ТЬ	3.38	2.36	6.27	3.98	1.12	2.31	2.07	6.41	2.92	6.14	1.64	7.80	2.34	1.03	4.63	2.58	2.60	10.05	9.00	5.80	3.69	5.16	4.11	4.31	3.21	4.14	1.36	7.40	1.65	5.05	3.85	2.68	4.11	2.18	1.96	17.09	5.98	4.43	0.89	7.64	1.69	5.32	1.02	13.43	1.73	29.36	2.47	7.62	
	Та	0.09	0.34	0.28	0.43	0.07	0.17	0.15	0.33	0.18	0.26	0.14	0.33	0.14	0.10	0.15	0.17	0.13	0.35	0.32	0.20	0.27	0.22	0.10	0.14	0.21	0.12	0.09	0.19	0.13	0.31	0.24	0.10	0.21	0.10	0.12	0.50	0.34	0.24	0.10	0.18	0.13	0.27	0.07	0.65	0.08	7.45	6.15	1.77	
) 	Sm	1.61	0.75	2.08	2.19	0.45	1.37	0.89	1.81	1.22	2.06	0.72	2.36	0.78	0.34	2.36	1.14	1.25	2.95	3.06	3.15	1.51	1.92	2.13	2.29	1.48	2.52	0.61	3.98	0.43	1.68	1.68	1.49	1.87	0.97	1.03	7.19	1.65	<b>2</b> 6.	0.32	4.48	0.90	1.65	0.50	3.85	0.57	11.75	0.64	2.16	
	Pr	0.02	0.01	0.06	0.04	0.00	0.03	0.01	0.04	0.04	0.04	0.02	0.05	0.01	0.00	0.00	0.02	0.03	0.00	0.11	0.07	0.02	0.04	0.00	0.07	0.03	0.00	0.01	0.15	0.01	0.03	0.02	0.04	0.04	0.02	0.02	0.09	0.04	0.06	0.00	0.11	0.01	0.05	0.02	0.10	0.01	0:30	0.02	0.05	
	Pb	0.007	0.037	0.032	0.066	0.026	0.070	0.030	0.049	0.057	0.046	0.116	0.067	0.083	0.026	0.021	0.026	0.026	0.056	1.441	0.029	0.059	0.027	0.039	0.035	0.019	0.024	0.032	0.036	0.023	0.108	0.026	0.020	0.062	0.035	0.164	2.632	0.110	0.015	0.036	0.128	0.029	0.038	0.013	0.033	<0.008	7.881	0.990	0.476	
	۵	182.77	186.92	351.80	319.13	168.31	159.37	192.33	382.69	220.71	328.27	144.76	361.50	198.04	152.47	214.99	241.19	198.23	386.25	510.98	247.98	292.92	309.68	256.62	286.21	254.06	234.88	135.04	241.46	137.09	340.36	277.60	167.64	265.67	172.63	165.79	481.42	359.69	284.86	139.41	333.81	162.12	316.40	111.61	659.44	129.03	1034.94	223.56	390.51	
 	ΡN	0.50	0.25	0.84	0.99	0.14	0.54	0.31	1.03	0.61	0.77	0.26	0.89	0.28	0.13	1.28	0.39	0.72	1.14	1.68	1.36	0.65	0.75	0.96	1.26	0.50	1.18	0.26	2.41	0.30	0.77	0.56	0.78	0.70	0.30	0.30	2.33	0.84	0.93	0.08	2.04	0.25	0.89	0.15	1.51	0.27	4.63	0.40	0.79	
	qN	0.32	0.78	1.28	0.90	0.41	0.39	0.60	1.53	0.62	1.1	0.48	1.39	0.49	0.38	0.62	0.57	0.36	1.55	1.30	0.74	0.82	1.05	0.43	0.50	0.68	0.46	0.39	0.63	0.46	1.24	0.86	0.38	0.71	0.45	0.45	.81	1.35	0.97	0.38	0.70	0.43	1.17	0.38	2.24	0.47	15.18	2.97	2.98	
	Γn	50.93	45.67	124.47	140.46	24.27	44.73	51.39	128.17	67.26	110.15	43.48	133.45	46.70	21.71	70.00	57.26	44.88	136.59	118.65	78.09	85.23	102.05	61.83	64.57	70.64	62.46	29.91	89.81	32.58	122.47	83.24	42.30	72.61	36.40	36.62	154.48	125.60	97.46	18.91	98.86	40.47	121.48	33.14	260.66	43.77	338.80	77.22	182.44	
	Гa	0.002	0.003	0.004	0.008	0.002	0.003	0.001	0.003	0.002	0.003	0.001	0.004	0.003	0.002	0.008	0.001	0.004	0.002	0.050	0.006	0.003	0.003	0.005	0.001	0.001	0.005	0.001	0.012	0.002	0.001	0.004	0.002	0.006	0.001	0.004	0.003	0.001	0.003	0.001	0.003	0.001	0.002	0.017	0.004	0.004	0.289	0.022	0.009	
	Но	17.60	13.63	41.05	42.86	6.24	12.14	12.68	42.15	18.46	36.52	10.11	47.22	13.00	5.81	24.16	16.59	13.65	53.65	50.48	29.31	23.90	32.34	19.81	21.24	19.02	20.87	8.05	34.80	9.84	35.26	24.38	13.46	24.08	10.90	10.72	72.10	40.56	28.77	5.30	36.80	10.93	37.32	7.40	78.23	10.76	146.54	17.69	45.88	
	±	10547.93	13202.04	8855.55	9614.93	10669.42	9507.39	8940.89	8860.90	9166.62	8681.78	10012.48	8646.48	10642.19	9986.25	9074.07	9456.70	10233.67	8765.25	9883.44	9920.46	9497.90	8578.14	9082.48	8896.14	8852.50	9490.24	10011.49	9031.95	9289.06	8758.11	8692.98	9686.99	8844.68	9741.90	9731.47	10839.83	8762.34	9041.47	10743.74	9346.09	66.6096	9011.06	10478.31	8927.23	10254.68	12109.03	16881.62	13047.33	bm.
	рĐ	9.62	6.31	15.88	20.98	2.86	6.57	6.32	16.72	8.45	15.25	4.43	20.42	5.84	3.05	14.72	7.65	7.62	26.87	24.26	18.39	9.78	13.48	12.80	12.94	9.05	12.58	3.77	23.05	4.57	12.13	10.58	8.04	11.21	6.64	5.38	52.65	15.04	11.63	2.09	24.23	5.22	13.27	2.62	35.86	4.77	83.29	5.98	18.17	e in p
	Eu	0.53	0.38	4.04	1.56	0.18	0.64	0.49	1.02	0.71	0.87	0.34	1.24	0:30	0.17	1.18	0.55	0.57	1.61	1.47	1.41	0.64	0.81	1.00	1.09	0.74	1.00	0.26	1.67	0.33	0.84	0.69	69.0	0.79	0.50	0.45	4.09	0.90	06.0	0.19	1.95	0.38	0.92	0.15	1.46	0.20	1.70	0.13	0.88	ts are
	Er	95.14	74.69	227.76	232.60	35.11	26.99	75.69	232.87	105.40	202.64	58.78	254.52	69.13	33.17	130.66	91.94	74.70	283.92	259.60	151.45	137.63	181.47	106.02	111.88	110.78	109.17	46.17	179.22	54.66	203.19	140.61	72.27	130.29	58.23	57.73	341.89	226.40	161.11	29.41	193.84	61.95	214.86	47.45	434.59	61.66	754.91	107.42	260.93	*All elements are in ppm
	Dy	44.11	32.31	94.05	102.16	14.37	28.83	29.02	95.49	43.15	84.03	23.00	110.99	30.09	14.62	61.40	36.65	32.85	133.16	124.58	75.83	52.03	75.01	49.38	53.00	44.45	52.24	18.68	91.57	23.08	76.33	56.28	34.29	57.00	28.88	25.70	201.57	90.90	64.29	12.66	77.76	25.29	81.46	17.26	189.56	25.38	388.64	39.63	107.39	'All el
	Ce	2.90	9.14	9.49	10.84	<u>4</u> 6.	2.93	3.28	9.48	4.13	8.30	2.89	11.82	4.05	2.32	5.08	4.14	3.22	13.38	10.13	6.65	5.19	7.44	3.97	4.35	4.18	4.17	2.33	6.24	2.86	7.76	5.73	3.01	5.10	2.74	3.01	23.22	8.70	80.9	2.60	7.55	2.94	8.37	1.71	18.16	2.44	70.15	9.47	23.24	
	Analysis ID	SPF-05_zr9	NEF-02_zr1	NEF-02_zr10	NEF-02_zr11 NFF-02_zr12	NEF-02 zr13	NEF-02_zr14	NEF-02_zr15	NEF-02_zr16	NEF-02_zr17	NEF-02_zr18	NEF-02_zr19	NEF-02_zr2	NEF-02_zr20	NEF-02_zr21	NEF-02_zr22	NEF-02_zr24	NEF-02_zr25	NEF-02_zr26	NEF-02_zr27	NEF-02_zr28	NEF-02_zr29	NEF-02_zr3	NEF-02_zr30	NEF-02_zr31	NEF-02_zr32	NEF-02_zr33	NEF-02_zr34	NEF-02_zr35	NEF-02_zr36	NEF-02_zr37	NEF-02_zr38	NEF-02_zr4	NEF-02_zr40	NEF-02_zr41	NEF-02_zr42	NEF-02_zr44	NEF-02_zr44	NEF-02_zr5	NEF-02_zr6	NEF-02_zr7	NEF-02_zr8	NEF-02_zr9	ELF-01 zirc1	ELF-01 zirc10	ELF-01 zirc11	ELF-01 zirc12	ELF-01 zirc13	ELF-01 zirc14	

Appendix C: Eastern Sunda arc zircon trace element chemistry

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Analysis ID	Ce	Dy	Er	Eu	Вd	Ŧ	유	La	Lu	qN	ρN	Ь	Pb	Pr Sr	im Ta		Th	Tm		<b>\</b>	Υb	Zr	Fe	F
ELF-01 z15	2.03	36.89	88.22	0.45	7.27	9796.26		0.004	61.50	0.46	0.37	277.35	<0.008	0.01 0.	.74 0.0	08 2.59					248.54	488754.69	<2.479	4.72
ELF-01 z16	33.11	268.71	286.90	1.80	48.28	9792.61			294.56	3.55	1.86		0.042	0.10 5.	.35 0.							482776.28	<2.457	11.54
ELF-01 z17	112.79	572.69	1073.44	2.22	127.57	10464.18	7		449.91	26.06	6.97		0.502	0.31 19.	.33 7.	-				7312.00		473407.08	44.93	12.27
ELF-01 z18	2.27	18.18	46.89	0.14	3.28	10879.49			33.18	4.0.0	0.14		<0.008	0.01	.46 0.08	08 1.26	26 14.91	.91 11.90	90 52.75		131.55	488625.68	<2.408	4.29
ELF-01 219	77.70	373.50	832.00	54. A	90.00	147.94.10	151 10	1 072	577.00	12.03	17.62	1550 70	0.002	,	7.76							475607 68	130.67	5.73
ELF-01 220	16.92	132.56	306.27	1.06	25.00	9576.99			184.37	2.06	1.00		0.051	0.05	_			•				485652.88	<5.732	12.63
ELF-01 z21	51.18	217.97	495.62	1.78	44.30	11376.38			285.26	8.02			0.428									478967.52	17.29	8.33
ELF-01 z22	75.34	282.03	557.45	2.72	63.49	9610.17	_		289.69	10.10			0.365									480562.58	<2.345	14.19
ELF-01 z23	11.33	92.44	292.17	0.33	14.53	15147.99	45.34	0.422	227.75	4.46	_		0.579	0.23 2.								480582.46	100.16	9.30
ELF-01 z24	34.16	215.74	464.33	1.05	37.91	11536.05			247.21	5.63			0.429									481287.22	57.18	9.11
ELF-01 z25	20.06	138.98	417.03	0.28	18.41	14569.47			258.65	5.17	_		25.226									472117.64	4662.94	5.89
ELF-01 z26	16.55	101.01	240.69	0.63	17.37	13164.65			148.02	2.65			0.261		2.29 1.7							483527.27	6.28	5.63
ELF-01 z27	16.91	144.89	341.47	1.21	25.22	14893.48			216.44	2.30			0.450									479947.50	40.18	2.97
ELF-01 z28	2.81	25.54	57.32	0.31	2.57	10276.40			38.30	0.50			0.038									488812.51	29.13	10.37
ELF-01 z29	4.34	51.13	128.90	0.64	9.01	9051.22			87.87	69.0			0.012	0.05	1.40 0.1							488966.72	2.87	8.50
ELF-01 z3	31.94	165.53	398.39	1.37	27.62	10156.85	5 69.10		262.36	3.55			0.058									484539.82	<2.430	11.28
ELF-01 z4	70.45	411.47	869.88	1.82	82.82	11126.10	_	0.032	435.10	8.06	3.76		0.833	•								475664.98	98.05	11.16
ELF-01 z5	25.34	177.16	406.69	0.81	30.92	14608.88			243.19	3.21			1.008									478340.78	114.75	11.22
ELF-01 z6	16.20	103.28	247.17	0.88	18.35	9523.34			156.08	1.89			0.179									486928.19	21.24	8.92
ELF-01 z7	30.70	269.32	653.26	0.93	50.79	13115.49	_		418.60	8.84			5.858		_							473316.67	997.27	7.85
ELF-01 z8	24.76	100.37	238.84	0.46	18.64	14320.23			144.49	3.47			1.012									481108.28	218.43	4.48
ELF-01 z9	8.52	99.79	159.32	0.76	15.02	11967.96			102.06	1.02			0.051		1.92 1.1							486287.63	<5.588	5.66
ELF-02 z1	100.19	427.52	767.53	2.47	102.58	11704.93			297.38	4.14			0.334	_								475771.08	137.52	8.76
ELF-02 z10	95.99	1071.63	2031.46	1.14	223.35	14854.52	4		923.42	93.81			3.869									448526.95	657.75	7.80
ELF-02 z11	3.89	64.67	172.46	0.62	10.36	9295.68			114.93	0.74			<0.008									488145.04	2.48	7.57
ELF-02 z12	7.08	115.87	281.67	1.00	18.07	8942.14			165.62	1.26	0.71		<0.008									487087.53	2.81	10.53
ELF-02 z13	5.61	213.04	421.35	0.36	48.45	13923.10			187.51	5.34			0.241									479670.08	33.79	6.19
ELF-02 z14	2.05	27.32	64.21	0.35	4.65	10991.24			46.12	0.38			0.111									488178.79	16.17	5.73
ELF-02 z15	8.72	125.96	268.65	1.41	23.34	9665.15			144.46	1.10			0.010									486713.77	3.30	11.37
ELF-02 z16	7.32	631.35	1209.94	1.42	115.68	12174.17			416.54	0.89			0.178									474832.76	6.51	4.43
ELF-02 z17	77.88	862.82	1628.88	2.40	156.87	13898.74			639.38	11.72	7.49		2.000									461948.95	309.13	3.78
ELF-02 218	96.73	459.83	917.39	0.32	82.65	14/69.91	_ ,		453.77	/8.40			6.126									468788.13	1125.47	5.41
ELF-02 z19	3.59	87.78	197.781	0.97	18.05	9182.36	36.28	2.00.0	110.89	0.49			800.00	0.04								487932.72	4.12	
ELF-02 22	20.0	20.02	30.00	2.0	0.40	10064 50	•		04.00	60.0			40.0									470600 67	0.07.00	5 6
ELF-02 220	4.85	62.10	167.42	0.70	10.45	10116.50			101.51	28.0		343.52	0.037		1.25 4.	35 4.10		.50 41.87		7 1013.48		487560.41	<5.313	7.68
ELF-02 z22	12.13	130.01	292.73	0.91	26.60	11531.17			160.32	2.07			1.835									484585.14	12.14	7.79
ELF-02 z23	5.59	109.49	225.64	1.44	23.56	9678.27	43.45	0.429	120.80	1.07	_		0.426									480430.72	5020.04	278.75
ELF-02 z24	2.97	62.52	137.28	0.80	12.02	9842.39			83.27	0.38			<0.008									488139.10	8.81	5.19
ELF-02 z25	78.73	840.29	1444.79	00.9	184.63	10010.08	eo		539.80	5.22			0.238		25.33 1.1							470183.17	664.28	10.28
ELF-02 z26	6.94	91.27	205.86	1.41	17.62	8589.85			128.72	0.75			0.029									488042.09	2.78	9.39
ELF-02 z27	7.90	114.10	276.38	1.13	19.99	9128.01			158.53	1.01			<0.021					.96 67.00			5 683.28	486994.63	<5.551	11.25
ELF-02 z28	9.16	137.67	357.61	0.98	20.37	9229.47			203.18	1.50			<0.021									485726.59	<5.566	13.51
ELF-02 z29	5.16	118.45	245.70	1.91	27.27	9549.31			137.69	0.56			0.048	0.09 4.								487193.23	3.00	6.24
ELF-02 z3	22.54	212.29	563.36	0.50	30.96	10821.08			327.24	9.18	2.01	_	960.0									480720.78	13.92	4.50
ELF-02 z30	3.69	39.22	101.41	0.42	6.89	10189.11			69.78	0.63	0.40	200.82	0.010	0.05	_						1 278.73	488456.06	6.34	6.46
ELF-02 z31	204.68	1488.22	1962.59	0.55	414.26	13170.54	4		644.78	147.02	45.73		5.328	3.53 80.	30.41 108.5			.,		17178.94		449639.08	652.83	24.94
ELF-02 z32	96.9	103.10	218.19	1.06	20.04	10927.98			119.72	0.75	<del>-</del> - ;	492.21	0.029	0.04	.79 0.26			.71 50.79	79 156.98		509.42	486046.96	4.97	4.08
ELF-02 z33	85.03		1502.22	1.02	172.02	13573.14	297.09	1.749	701.23	141.35	22.73		15.867	2.05 34	.58 154.			.,				456547.73	2925.26	10.06
		*	elements are in ppm.	nts a	re in	ppm.																		

Appendix C: Eastern Sunda arc zircon trace element chemistry

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Analysis ID	Ce	Dy	Er	En	Gd	÷	오	La	Lu	QN	PN	Ь	Pb	r Sm	Та	Тb	T.	Τ	_	Υ	Yb	Zr	Fe	F
ELF-02 zirc34	3.90	59.11	156.13	0.50	10.50	10038.59	26.87	0.025	102.66	0.71					9 0.18	4.06	25.57			930.79	423.15	487860.70	5.30	7.18
ELF-02 ziro4	55.68	631.71	1443.63	96.0	95.34	13931.20	254.87	0.850	774.80	72.06		2770.66 3	3.801 0.	0.58 12.91	240.65	41.81	2154.73		7	9626.04	3704.91	461458.38	867.38	6.44
ELF-02 zirc5	23.67	218.23	793.26	0.40	26.32	12995.89	122.39	0.120	378.78	5.38						•		.,	•	4580.10	1907.98	476313.63	115.34	5.85
ELF-02 zirc6	4.93	106.85	210.17	1.92	25.17	9257.57	41.05	0.009	115.76	0.54		٧								1382.46	493.45	487842.25	<2.386	7.99
ELF-02 zirc/	104.10	700.00	1249.22	2.86	139.46	12097.76	257.46	0.023	485.90	10.92							N	. •	<b>.</b>	8104.43	2455.38	470001.76	4.79	10.29
ELF-02 ziro8	3.7	13.74	193.31	0.63	12.15	9/4/.13	33.83	0.004	722.37	0.93							0.01			1136.50	501.11	487620.91	<2.361 6.464	6.04 40.04
ELF-02 zirc9	3.14	41.39	12.701	0.46	7.09	10556.73	18.28	0.004	75.93	0.59	0.50	208.73 <0	<0.008 U.	0.02 1.11	0.15	L 2.97		27.34		651.69	306.62	488101.89	<2.404	85.0
LB005_zirci	947.74	704.63	1262.55	0.54	21.181	11461.78	252.09	0.133	416.79	20.73				.,			4540.00			9230.56	2243.82	466399.95	400.41	15.30
LB005_Zirc10	82.38	189.31	05.17.4	0.35	43.05	9429.32	75.60	0.590	173.49	3.34										2790.93	857.05	483588.91	139.17	7.82
LB005_ZICT1	304.93	18.408	18.87	5 .	220.58	12154.41	319.15	0.183	200.18	7/01				1.63 39.16			12.1080		62.1022	11/34.70	2934.14	400/43.16	270.70	33.01
LB005_zirc12	726.68	508.95	883.63	2.14	728.19	9196.09	183.28	3.13	305.32	80.4	12:04			1.23 22.13	2.43		,			6102.47	1561.81	43/151.08	### 97	142.07
LB005_Zirc13	2/9.72	1339.39	2171.64	5.35	354.82	9143.39	463.02	0.114	296.91	15.61						_				14510.28	3254.09	462792.03	<6.528	19.17
LB005_zirc14	221.61	1006.28	1640.96	2.40	246.06	9669.70	360.10	1.106	470.15	10.60										11045.55	2721.33	466481.97	1629.74	14.38
LB005_zirc15	263.38	908.88	1641.59	1.17	215.57	9477.22	326.21	0.133	559.94	7.97										11822.67	2978.58	466696.30	<6.526	8.03
LB005_zirc16	109.52	460.15	871.03	1.54	110.15	11385.15	169.67	1.053	314.77	4.81										5726.64	1585.79	476304.92	510.68	10.81
LB005_zirc17	106.39	942.89	1535.06	3.72	234.30	9889.43	325.52	0.047	439.42	4.10										10252.42	2345.04	471239.31	<6.686	8.00
LB005_zirc18	555.32	978.39	1617.79	1.54	269.37	13301.63	339.64	0.146	494.95	21.63							12537.31			12167.36	2840.85	455791.02	114.78	21.17
LB005_zirc2	234.51	974.44	1686.15	2.88	241.23	11629.83	342.17	1.705	533.79	10.76										11426.26	2803.19	463250.55	878.01	18.50
LB005_zirc3	336.36	994.19	1692.60	96.0	247.87	9872.39	355.38	1.372	491.72	20.79							.,			11790.76	2807.75	463853.05	909.99	18.69
LB005_zirc4	104.23	843.14	1326.92	2.77	209.36	9278.81	294.65	0.045	370.44	4.13										9193.25	2197.35	473862.39	<3.698	7.75
LB005_zirc5	152.45	997.20	1655.85	4.24	249.26	9217.57	346.35	0.070	484.58	7.84	15.36 16									10937.64	2547.79	469996.70	55.85	13.11
LB005_zirc6	170.08	1153.74	1838.28	4.03	293.91	9716.57	400.22	0.066	513.56	6.24										12553.57	2803.13	466906.00	<6.480	10.01
LB005_zirc7	182.24	825.80	1393.74	3.62	210.89	9537.35	289.29	0.115	418.15	11.73										9092.60	2227.41	471982.88	98.65	22.04
LB005_zirc8	168.12	936.31	1513.92	3.83	239.53	9297.39	333.65	1.003	436.55	9.27	15.49 16									10194.83	2478.87	469851.67	796.79	17.02
LB005_zirc9	328.47	818.11	1417.81	1.19	203.51	9873.89	290.96	0.265	458.39	19.19	_			.,		•	4		~	9691.50	2611.95	468180.90	40.61	16.69
LB015_zirc1	9.33	85.32	186.77	1.46	19.68	9615.15	34.31	0.123	109.97	96.0										1153.19	458.81	487548.12	90'2	6.59
LB015_zirc2	8.05	77.14	180.02	1.13	17.33	9818.68	32.32	0.007	107.53	86.0										1102.12	437.57	487680.68	<6.202	4.93
LB015_zirc3	12.13	108.82	252.83	1.30	21.40	9472.13	45.27	0.286	147.14	1.59										1529.51	603.73	486553.08	180.36	169.97
LB015_ziro4	7.89	91.48	191.46	2.23	24.52	10241.33	35.85	0.206	108.06	1.02										1221.23	459.00	487112.39	46.57	5.35
LB015_zirc5	14.89	138.43	287.08	3.99	38.54	8999.86	53.91	0.904	156.11	1.71										1868.02	646.28	486677.83	54.59	12.68
LB015_zirc6	6.84	71.34	161.28	0.94	18.02	10612.41	29.40	0.007	98.54	0.62		٧								1007.20	400.36	487244.21	<6.957	5.77
LB015_zirc7	8.77	85.47	186.32	1.62	20.75	9630.08	33.09	0.009	97.31	0.87										1092.55	425.21	487970.69	<2.778	09.9
LB026_zirc1	4.55	41.05	101.88	0.49	8.24	10458.70	18.06	0.003	67.39	92'0						2.95				624.58	277.83	488252.90	<2.755	5.21
LB026_zirc10	4.18	40.61	100.31	0.49	7.77	8899.14	18.03	900.0	61.32	0.65										604.94	258.50	489444.46	<2.792	8.62
LB026_zirc11	99.9	49.72	112.01	0.41	9.94	10630.71	20.53	0.007	66.18	0.95										710.24	273.45	488026.82	<6.548	6.38
LB026_zirc12	8.55	101.01	212.36	1.25	23.16	10031.62	39.60	0.010	103.17	0.83		•								1335.28	444.52	487359.44	<6.463	7.39
LB026_zirc13	3.98	45.26	101.40	0.71	<del>1</del> 5	9977.17	18.53	0.106	56.62	0.43		_								633.50	242.49	488690.07	<6.548	6.39
LB026_zirc14	4.93	¥ 5	130.05	0.58	10.21	9800.23	7.77	0.00	81.43	0.80		•								/8/.86	322.44	488429.88	<6.5/3	6.59
LB026_zirc15	11.23	114.95	246.87	1.25	22.37	9668.57	47.02	0.029	129.42	1.32										1552.60	579.76	487033.84	<2.765	8 18
LB026_zirc16	5.48	06.17	151.13	70.1	15.77	9686.39	78.68	0.072	81.26	0.74										949.78	354.97	488200.24	66.63	7.49
LB026_zirc17	6.44	71.13	752.06	0.65	12.48	9636.14	78.97	0.007	90.52	00.1	1.0	264.95 <0	<0.023 0.	0.05 1.54	0.20	5.15	29.09	44.65	46.25	T007.14	373.54	488170.69	<6.494	8.45
LB020_211C10	2	0.00	102.00	5 6	27.07	24/45	0.00	1 0	27 1.23	5 6									•	0000.40	1311.97	460372.19	70.01	5.5
LB026_ZIC19	07.7	104.41	229.48	1.25	19.34	9186.64	43.31	0.010	124.47	0.00										1437 10	561.01	467 720.90	30.69	11.66
LB026 zirc20	5.26	66.29	133.54	0.92	16.70	10132.56	25.13	0.007	68.89	0.61		٧								832.80	291.63	488207.59	<6.358	5.51
LB026_zirc21	3.96	42.68	106.03	0.52	8.24	9491.90	18.53	0.003	65.64	0.64		٠								641.63	276.57	488907.25	<2.755	6.81
LB026_zirc22	5.92	62.72	148.43	0.62	11.63	9976.84	25.99	0.007	89.99	0.95	0.50	251.42 <0	<0.023 0.	0.03 0.93	3 0.24	4.30		34.05	42.47	911.41	364.64	488078.34	<6.550	7.36
LB026_zirc23	5.50	79.36	171.67	1.07	17.35	9253.54	31.65	0.023	95.18	0.58					3 0.16					1050.68	385.12	488369.36	<6.133	6.99
LB026_zirc24	2.89	32.02	77.37	0.48	6.62	10409.94	14.05	0.007	48.94	0.43	0.21	•		0.01 0.83	1 0.12			17.61		465.86	192.21	488638.85	<6.423	4.66
LB026_zirc25	4.70	49.02	113.89	0.56	9.57	9869.39	20.46	0.016	68.01	0.67	0.46	208.60 0	0.053 0.	0.03 1.54	0.20	3.39	18.21	1 26.76	33.42	702.30	282.32	488559.06	26.61	7.35
		*All 6	*All elements are in ppm.	nts a	re in p	pm.																		
					1																			

Appendix C: Eastern Sunda arc zircon trace element chemistry

F		727.05	12.72	8.31	7.76	9.12	0.04	9.43	7.63	20.01	7.73	6.08	4.19	11.28	5.17	130.23	6.45	8.48	5.79	9.46	7.14	7.53	8.36	5.90	8.91	3.72	8.70	0.32	14.37	8.34	5.54	6.10	7.36	5.66	7.20	8.45	8.60	6.54	8.18	18.42	7.43	9.49	7.95	7.20	00.11
ú	Ð	1419.72	43.22	<6.430	<2.744	10.97	55.700	<2.840	<2.795	275.42	<7.470	<2.872	<6.451	<2.884	<3.560	1329.35	38.08	20.25	<7.080	<6.479	<2.831	<2.853	<6.247	<2.827	<7.626	<6.328	<9.537	72.039 72.039	16.97	<3.444	<2.859	<3.241	4.84	296.40	<2.807	<2.787	17.67	14.96	22.26	384.73	3.88	3.75	1536.27	<2.878	07:07
ķ	7	488556.85	488639.22	487777.80	488386.63	487441.89	488405.10	487006.96	481558.44	474693.13	483762.82	486486.05	479206.54	488562.37	475737.44	484866.06	476363.05	424754.26	482504.86	486531.64	489015.05	488923.22	487088.76	487721.10	485472.63	486541.17	484537.21	484311.00	480112.54	488077.41	476491.63	486028.10	484530.10	475682.42	488623.33	487245.47	488493.32	486942.99	488443.41	487584.72	487889.71	487525.91	486062.86	488103.96	480038.92
ş	2	207.71	311.49	465.97	421.95	467.30	311.02	505.06	1242.58	1299.49	846.62	405.19	928.73	245.82	1328.10	559.47	1241.86	377.07	618.47	474.02	143.91	210.78	501.61	316.91	556.03	309.25	744.70	723 34	1237.28	192.83	1144.30	640.62	892.41	1316.51	174.81	408.98	239.53	504.36	231.03	297.97	307.72	397.25	201.40	299.12	18.000
>	-	498.23	734.54	1234.03	22.696	1294.14	1401.64	1680.31	3027.66	3794.11	3198.29	1120.86	2422.99	739.00	3989.34	1770.15	3667.54	1138.67	1491.50	1675.64	368.82	482.58	1796.22	785.40	1792.35	696.25	2754.01	1315 77	4666.46	629.18	2956.49	1917.72	2690.24	4049.25	462.06	1149.97	609.73	1499.04	655.17	814.70	884.06	1112.95	541.51	777.70	2007.24
, =	>	33.05	32.21	56.27	43.97	53.56	35.80	76.47	1067.16	1289.30	221.97	295.83	879.45	38.77	910.58	110.58	1015.51	64.75 1750 75	524.08	95.32	29.65	36.54	72.56	79.12	420.16	373.40	177.08	10.212	433.49	34.60	1216.51	240.75	234.39	1116.83	41.26	99.98	37.36	97.49	33.49	47.65	42.77	79.41	41.27	43.82	12.88
Į.	<b>=</b>	19.10	28.80	44.87	38.81	45.09	78.19	54.42	114.33	130.11	92.73	40.36	89.41	25.21	136.00	57.86	125.42	38.68	58.26	51.10	13.83	19.47	55.84	29.86	58.65	28.38	81.62	14.7	135.34	20.59	117.11	64.26	88.49	137.34	16.73	40.87	22.38	50.39	23.02	30.08	31.14	40.12	19.85	29.04	99.99
ŕ	=	16.86	15.35	35.42	20.40	47.41	393.57	62.14	1129.45	1290.14	304.91	116.75	641.88	27.04	912.46	100.75	933.94	52.97	214.21	81.32	16.35	19.78	74.63	60.47	190.05	162.81	215.13	73.80	591.95	24.36	532.99	179.67	319.75	1257.95	24.97	26.99	22.16	103.87	23.16	39.42	31.19	47.86	23.23	27.54	00.71
ŕ	2	2.57	3.53	5.90	4.30	6.83	3.44	11.27			23.21	6.54	12.93	4.76	21.99	10.82	19.91	7.13			2.01	2.45	12.16	4.64	10.08	3.33	18.56	0.00	32.88	3.75	16.25	12.80	17.64			99.9	3.22	9.39	3.81	4.72	5.55	6.29	3.29	4.46	57.1
F	<u> </u>	0.20	0.17	0.22	0.28	0.22	0.07	0.29	3.91	10.83	0.46	0.77	14.25	0.18	2.83	0.35	7.89	71.0	5.09	0.37	0.12	0.14	0.22	0.12	1.10	1.03	0.42	0.70	1.31	0.17	31.12	0.54	0.30	5.99	0.13	0.38	0.18	0.22	0.18	0.21	0.16	0.42	0.19	0.17	0.52
Š	5	0.89	1.50	2.13	1.90	2.15	- 32 - 32	6.55	6.54	8.14	10.73	2.84	6.14	2.16	7.24	3.92	7.00	3.52	2.71	5.04	0.73	0.93	5.65	2.89	2.86	1.73	8.16	2.30	18.24	1.29	6.17	7.03	10.12	9.51	1.08	2.88	1.55	5.31	1.48	2.23	2.96	2.75	1.36	1.93	¥0.4
à	Σ	0.02	90.0	0.04	0.03	90:0	0.02	0.16	0.19	0.27	0.21	0.26	0.16	0.04	0.12	0.14	0.16	80.0	0.04	0.15	0.01	0.02	0.13	0.10	0.17	0.03	0.26	- 0	0.52	90.0	0.13	0.20	0.37	0.24	0.02	0.05	0.03	0.15	90.0	0.07	0.05	0.04	0.05	0.04	0.35
á	2	0.014	0.022	<0.023	0.012	0.049	0.00	0.020	0.329	3.740	0.153	0.068	0.348	0.048	0.293	0.256	0.667	10.334	0.093	0.265	<0.009	<0.009	0.034	0.017	0.184	0.099	0.098	0.173	1.153	0.028	0.795	0.049	0.108	3.489	0.016	0.079	0.010	0.030	0.204	0.742	0.014	0.014	0.408	0.031	0.020
٥	_	206.36	253.32	349.45	275.64	392.68	3027 93	247.92	652.51	1170.36	607.21	390.97	767.35	220.56	1737.89	438.03	1289.51	247.92	337.50	291.04	127.96	142.20	295.79	112.82	526.15	293.51	463.77	22.020	573.18	197.87	791.62	381.82	455.93	1121.80	162.41	282.59	181.19	265.27	246.95	231.47	197.43	279.05	221.86	242.58	0.010
3	DN	0.31	0.74	0.45	0.56	1.12	0.40	3.06	3.40	3.00	4.95	2.15	2.31	0.70	<b>1</b> .92	<u>-</u>	2.85	24.	62.0	2.51	0.23	0.38	2.17	1.42	1.85	99.0	5.14	\$ 5 5	8.15	0.54	2.35	3.50	6.71	4.26	0.43	1.10	0.42	2.72	0.82	0.81	1.23	1.00	0.66	0.97	2.10
4	QN	0.95	0.61	1.17	0.87	1.07	10.7	0.88	4.83	10.53	1.78	1.13	8.39	0.64	6.33	1.51	7.87	0.62	3.17	0.99	0.64	0.51	0.79	0.54	2.04	1.19	1.17	50.	3.29	0.64	15.11	1.36	1.41	6.18	0.63	1.12	0.79	0.82	0.79	0.87	0.63	1.07	0.70	0.64	.43
3		48.10	73.21	113.03	98.04	110.35	718.63	100.04	280.66	276.00	174.39	85.78	205.95	49.44	270.20	118.89	267.59	76.93	142.06	98.98	31.44	48.12	105.06	70.55	120.60	74.68	152.59	20. 14	252.17	39.52	234.93	132.19	187.20	281.11	36.61	86.21	52.31	112.06	52.65	63.72	63.58			65.45	143.93
-	L	0.039	0.054	0.007	0.003	0.038	0.003	0.018	0.014	0.456	0.014	0.607	0.099	0.003	0.015	0.156	0.095	0.023	0.028	0.026	0.003	0.003	0.007	0.011	0.439	0.018	0.042	0.0	0.139	0.370	0.086	0.016	0.175	0.176	0.003	0.005	0.024	0.007	0.034	0.129	0.008	0.008	0.018	0.004	0.000
5	2	14.82	21.61	35.43	28.42	37.66	21.98	55.05	86.11	112.99	98.91	34.89	73.37	23.72	119.81	55.64	108.70	36.45	43.96	53.22	11.19	14.40	58.01	23.58	55.19	20.32	84.79	73.70	143.87	19.77	89.03	58.64	82.40	124.54	14.18	35.85	18.26	44.71	20.23	25.58	28.34	34.74	17.31	23.93	01.00
3	Ē	10017.25	9520.39	9424.16	9332.40	9623.98	13026.33	9846.66	10941.40	16407.61	9869.17	10986.00	15748.05	9837.63	14448.14	9354.26	15231.21	9952.90	15215.08	10382.64	10259.49	10059.13	9420.29	11008.16	10473.70	11891.95	10226.02	10536.18	11321.64	10803.78	17897.07	9979.75	10019.24	14930.83	10475.23	10438.75	10241.97	10121.53	10059.64	10204.67	10458.21	10177.28	10858.46	10258.61	9212.11
3	3	6.41	10.38	15.35	11.53	19.59	9.32	35.97	42.54	59.39	70.51	19.91	38.12	14.13	96.75	31.68	55.80	21.47	20.07	34.58	5.89	6.52	37.42	16.15	29.96	9.62	57.76	23.82	105.74	12.33	43.31	41.65	50.88	70.35	7.86	18.48	68.6	29.36	11.82	14.22	17.36	18.85	8.49	13.25	32.13
ä	2	0.38	0.64	0.86	0.71	1.19	4.00	1.57	2.55	0.51	2.51	0.90	0.83	0.58	0.48	1.21	0.52	7.13	0.50	1.26	0.29	0.39	1.69	1.12	96.0	0.36	1.97	70.1	3.39	0.39	1.20	2.12	3.70	0.89	0.42	0.86	0.50	1.75	0.58	0.65	0.88	0.94	0.43	0.66	80.
ů	ū	79.92	119.68	203.02	164.35	208.05	202.29	266.68	489.54	607.30	482.55	179.90	400.92	118.63	622.78	282.50	577.54	186.69	247.49	261.99	60.53	80.39	279.84	125.80	283.71	117.02	416.80	208.50	688.52	99.23	482.38	290.40	352.25	655.15	74.97	186.97	98.72	234.58	105.60	133.50	144.36	183.95	88.32	129.34	324.35
à	ń	35.62	50.63	83.23	64.29	92.23	90.90	143.47	204.06	287.57	276.02	87.35	182.20	61.30	304.33	141.11	273.30	94.67	96.71	139.09	27.85	33.87	154.12	59.44	141.88	46.11	240.13	108.30	396.14	52.52	225.75	156.24	220.25	328.50	34.73	89.31	45.95	118.14	51.68	61.67	71.28	86.91	42.30	57.96	100.44
ć	3	3.04	4.53	8.26	90.9	8.22	9.79	9.71	38.67	77.19	30.99	13.53	30.01	6.35	65.02	14.06	06.09	6.95	20.52	12.07	4.26	4.57	9.76	6.37	19.79	11.19	20.80	12.63	67.37	7.00	30.85	19.52	24.32	68.46	5.60	10.20	5.58	11.86	5.29	7.59	6.30	9.11	5.92	5.69	0.0
Clicione	Alidiysis ID	LB026_zirc3 LB026_zirc4	LB026_zirc5	LB026_zirc6	LB026_zirc7	LB026_zirc8	NAF-01 zirc1	NAF-01 zirc10	NAF-01 zirc11	_ NAF-01_zirc12	NAF-01_zirc13	NAF-01_zirc14	NAF-01_zirc15	NAF-01_zirc16	NAF-01_zirc17	NAF-01_zirc18	NAF-01_zirc19	NAF-01_zircz	NAF-01 zirc21	NAF-01 zirc22	NAF-01_zirc23	NAF-01_zirc24	NAF-01_zirc25	NAF-01_zirc26	NAF-01_zirc27	NAF-01_zirc28	NAF-01_zirc29	NAF-01_ZICS	NAF-01_zirc31	NAF-01_zirc32	NAF-01_zirc33	NAF-01_ziro4	NAF-01_zirc5 NAF-01_zirc6	NAF-01_zirc7	NAF-01_zirc8	NAF-01_zirc9	NAF-02_zirc1	NAF-02_zirc10	NAF-02_zirc11	NAF-02_zirc12	NAF-02_zirc13	NAF-02_zirc14	NAF-02_zirc15	NAF-02_zirc16	NAF-UZ_ZIFCI /

Appendix C: Eastern Sunda arc zircon trace element chemistry

F	: :	10.43	8.10	7.54	10.64	6.40	1020.86	9.21	7.23	11.01	13.32	6.13	9.49	7.49	8.56	7.53	8.04	8.06	11.04	8.02	10.00	9.82	15.58	16.05	12.71	8.94	6.68	96.9	8.35	8.29	10.47	11.03	12.88	11.39	9.81	8 6 8 6	9.57	8.93	7.65	8.64	8.39	20.22	9.13	7.25	7.27	8.39	9.10	7.44	8.39
ď.		24.62	17.16	<2.856	<2.900	4.18	2487.52	<2.816	2.94	5.82	33.22	6.31	<2.861	6.61	8.67	3.25	52.75	20.05	26.10	17.08	4.53	5.53	10.54	20.43	8.87	<2.778	13.79	<2.771	40.75	<2.757	<2.731	45.27	96.79	8.78	15.17	89.75	509.09	13.61	12.71	72.28	<2.906	257.68	10.51	16.65	<2.905	18.20	4.08	530.93	<2.976
7,	i	485539.18	487954.80	488236.76	487449.38	488171.91	483345.52	487720.53	488534.66	487627.67	487799.58	488474.34	487573.57	488085.81	488468.96	487558.71	480262.96	488453.72	487466.78	488544.40	488267.71	487396.50	487173.16	488025.23	485294.89	488406.27	488715.16	488567.46	488346.85	488201.01	487962.85	488121.04	487741.66	486649.83	487073.44	488241.13	483443.17	486777.54	488199.53	487771.78	486783.38	485036.80	484572.86	487973.57	488348.46	487728.05	487934.36	483015.06	489311.78
\$	2	345.84	326.48	316.42	466.57	274.28	362.61	397.50	178.66	476.22	390.52	121.39	395.24	374.01	262.95	468.14	347.65	235.06	449.04	215.14	382.08	420.91	413.96	265.75	899.00	289.78	129.19	196.45	258.70	372.37	426.70	268.44	348.49	534.68	489.16	964.56	822.40	453.15	203.67	334.78	572.66	96.869	853.46	368.78	262.34	362.59	303.71	931.53	239.24
>		2428.74	992.74	784.83	1253.56	711.81	920.62	1203.59	474.30	1285.87	1114.71	263.81	1232.37	860.13	680.59	1390.17	987.86	683.27	1205.41	514.10	1023.90	1215.31	1240.69	789.23	2624.00	764.15	312.84	508.91	700.90	898.28	1088.83	811.31	1018.78	1719.29	1534.50	760.45	2289.73	1235.64	552.30	865.64	1466.41	2221.33	2529.44	889.81	777.26	1143.36	808.89	2897.44	476.46
,   <u>-</u>	,	130.49	44.23	55.17	75.90	51.97	59.56	50.35	25.53	66.73	60.47	42.46	53.35	26.79	44.53	81.00	63.37	34.05	84.58	38.31	56.72	65.40	98.25	41.26	203.35	38.62	33.68	30.51	33.87	57.48	66.10	34.27	63.32	89.80	73.25	72.25	154.65	81.11	31.61	63.18	123.81	134.18	240.26	74.93	31.15	44.72	49.10	218.30	47.02
Ę		74.18	33.93	29.50	46.55	25.64	34.81	40.65	17.47	47.71	39.93	10.40	40.95	33.60	25.65	47.77	34.23	23.47	43.63	19.64	38.15	42.52	42.35	27.19	91.43	28.59	12.09	18.98	26.03	35.31	41.32	27.71	34.86	56.44	50.77	95.36	82.48	43.64	20.34	32.04	54.42	73.36	83.07	34.00	26.40	37.10	29.83	60.96	20.66
£		190.68 43.95	31.83	34.90	47.98	41.19	38.38	35.25	13.90	36.63	46.54	21.76	42.43	46.25	25.17	75.39	43.87	23.02	68.12	20.97	35.33	51.72	122.92	29.52	215.27	19.66	19.16	16.50	18.60	32.04	37.66	24.04	50.40	76.96	59.17	52.15	135.79	60.43	20.99	46.76	97.94	140.40	286.15	51.24	20.92	34.62	29.95	254.09	23.05
<u> </u>	2	17.95	6.26	4.23	6.17	4.43	5.01	7.62	2.73	6.83	6.45	1.25	8.40	4.56	3.53	8.68	6.14	3.88	98.9	2.60	5.32	7.69	8.13	5.25	14.93	4.37	1.50	2.93	3.85	4.89	5.58	5.21	5.44	8.69	9.13	18.84	12.21	7.44	2.77	4.75	7.86	14.56	15.74	4.11	5.12	7:37	4.40	18.27	2.21
Ę	+	0.34	0.22				0.27	0.21	0.14	0.36	0.24	0.15	0.19	0.21	0.19	0.21	0.19	0.16	0.25	0.15	0.25	0.16	0.24	0.20	0.46	0.23	0.14	0.15	0.20			0.17			0.27	0.42	0.52	0.24	0.22				0.42	0.29	0.11	0.17	0.20	0.40	0.15
Š	;	7.40	3.41	2.03	2.07	2.76	2.25	3.45	1.20	3.08	2.48	0.49	3.87	2.53	1.43	4.29	6.84	1.91	3.59	1.06	1.93	3.65	4.60	2.03	4.18	1.36	0.48	1.18	<u>7</u> .	2.14	2.13	2.25	2.31	2.83	3.27	12.11	4.66	4.87	0.75	2.55	3.41	7.35	9.97	1.75	2.72	3.52	2.00	8.27	1.53
à		0.12	0.00	0.05	0.04	0.08	0.07	90.0	0.02	90.0	0.08	0.01	0.08	0.08	0.02	0.09	5.68	0.04	0.12	0.03	0.04	0.09	0.10	90.0	0.08	0.03	0.01	0.01	0.02	0.04	0.04	0.05	0.10	0.04	0.08	0.37	0.17	96.0	0.02	0.07	0.07	0.21	0.49	0.03	0.02	0.08	0.25	0.29	0.02
£	2	0.073	0.02	0.029	0.019	0.013	0.029	0.010	<0.008	0.524	0.018	0.015	0.041	0.052	0.044	0.027	0.064	0.278	0.036	0.161	0.013	0.013	0.297	0.827	0.077	<0.008	<0.020	<0.008	0.575	0.010	0.035	0.059	0.041	0.087	0.042	0.061	0.117	0.083	0.028	0.642	0.030	0.064	0.116	<0.021	<0.009	0.083	0.020	3.768	<0.009
۵		530.83	288.76	214.43	324.42	129.02	241.91	266.64	162.33	334.57	287.34	139.64	238.52	199.45	199.53	273.33	4148.81	219.85	260.62	212.74	271.79	265.88	259.89	237.94	539.24	247.13	174.50	212.96	251.84	238.99	287.59	209.10	349.56	437.31	410.68	326.51	822.16	683.20	224.72	219.15	363.06	375.15	654.52	344.93	230.96	243.71	384.55	589.01	178.17
2		2.95	1.30	0.89	0.95	1.58	1.31	1.57	0.35	0.95	1.15	0.16	1.79	1.54	0.56	2.25	25.27	0.30	1.66	0.42	0.70	1.46	2.23	92.0	1.26	0.54	0.20	0.44	0.49	1.09	1.02	0.94	1.10	0.83	1.47	5.44	2.03	5.80	0.34	1.70	1.34	3.28	2.60	0.89	0.88	1.45	1.61	3.96	0.59
£	!!!	1.77	0.71	0.73	1.37	0.47	1.16	0.76	0.53	1.21	0.94	0.55	0.62	0.80	0.78	0.82	0.78	0.76	0.89	0.61	0.94	0.85	0.93	0.72	2.25	0.83	0.43	0.47	0.61	0.95	1.14	0.63	96.0	1.50	1.03	0.30	1.72	0.74	0.69	0.85	1.19	1.37	1.53	0.98	0.58	0.63	0.93	1.48	0.73
Ξ	1	78.14	72.18	68.69	99.01	61.49	77.50	80.34	38.15	98.18	82.36	28.66	99.62	85.01	58.31	98.90	76.37	52.56	99.22	52.76	82.31	89.59	86.35	54.44	204.93	62.02	31.31	42.28	55.91	81.54	94.09	55.50	77.50	119.22	105.30	63.96	170.94	97.83	45.77	72.77	126.81	140.22	193.38	90.30	53.47	70.58	64.76	206.25	59.43
-		<0.010	0.007	0.007	0.007	0.062	0.079	0.004	0.004	900'0	0.089	0.004	0.015	0.013	0.004	0.004	17.870	0.011	0.055	0.033	0.004	0.014	0.013	0.055	0.007	0.004	0.007	0.004	0.009	0.004	0.004	0.044	0.129	0.008	0.018	0.036	0.074	2.649	0.007	0.121	0.004	0.057	0.510	0.014	0.005	0.037	0.536	0.161	0.004
· ±	2	76.71	30.38	23.29	38.82	20.86	28.02	38.51	14.49	39.66	34.56	7.39	39.64	24.54	20.04	43.03	29.62	20.12	36.01	14.32	31.76	37.87	38.52	25.87	78.58	24.42	8.60	15.39	22.47	27.49	32.81	26.48	30.78	51.81	46.85	21.99	71.88	37.31	17.10	26.08	44.34	70.44	74.68	24.77	24.66	37.39	24.64	88.47	13.28
ĭ		9342.44	9899.75	10104.98	9853.38	10583.98	9924.51	9846.31	10587.29	9531.21	9764.94	11127.26	10056.11	10115.54	10081.35	9570.70	9814.16	10076.36	10020.30	10285.56	9417.98	10188.29	10342.57	10343.28	9010.92	9888.64	10621.60	10328.09	10036.95	9824.13	62'6096	10223.94	9824.33	9697.49	9587.55	9412.86	10629.31	9790.26	10676.41	10402.74	10054.48	10372.74	9768.48	9813.98	10030.86	10014.80	10032.38	10423.13	9403.35
3	3 3	54.85	18.52	13.26	17.17	13.96	14.04	22.26	7.43	18.49	17.89	3.40	24.79	13.34	10.84	26.20	18.82	11.43	21.02	6.94	13.89	22.08	25.69	14.80	41.89	12.08	4.20	8.26	10.87	14.27	15.47	15.71	16.73	24.73	27.21	59.39	32.22	23.47	8.87	14.54	22.48	44.66	49.59	11.67	15.31	22.72	13.89	55.58	7.11 n ppi
ā	+	2.83			. 68.0	1.00			0.32	. 68.0	0.94	0.25	1.25	0.92	0.46	1.43	1.35	0.50	1.25	0.47	0.80	1.07	1.32	0.76	2.00	. 25.0	0.22				0.85					0.52		1.40	0.40	. 22.0	1.12								o.e1 are i
ù	-	368.91			209.36	110.24				214.98		42.18	195.94		112.63	221.81	155.66	108.73	194.50		171.32		197.17	125.83							182.85			280.39		124.10			90.32	139.70	240.41								*All elements are in ppm. * $\mathbf{All}$
2	,	207.75	77.68	58.40	90.23	54.85	89'.29	99.31	36.84	95.18	85.49	16.89	104.93	59.99	20.77	113.03	75.47	51.19	91.16	33.61	75.92	98.11	101.08	64.99	195.95	59.28	19.17	39.78	54.05	63.34	60.62	69.29	75.74	126.68	121.33	53.12	173.27	96.28	38.21	65.11	106.23	188.94	194.32	29.60	63.86	98.66			31.53 <b>II ele</b> 1
	+	27.84	6.86	7.11	10.77	6.45	8.33	7.31	4.47	9.43	60.6	4.63	7.93	79.7	6.27	10.44	51.15	5.39	10.42	5.56	7.91	8.79	12.74	6.64	23.40	5.92	4.83	4.81	2.08	7.10	8.55	00.9	9.35	14.01	11.12	26.15 9.79	17.96	15.93	5.88	8.77	12.85	18.94	27.38	8.53	5.02	06.9			4.59 *A
Analysis ID		NAF-02_zirc19	NAF-02_zircz	NAF-02_zirc21	NAF-02_zirc22	NAF-02_zirc23	NAF-02_zirc24	NAF-02_zirc25	NAF-02_zirc26	NAF-02_zirc27	NAF-02_zirc28	NAF-02_zirc29	NAF-02_zirc3	NAF-02_zirc30	NAF-02_zirc31	NAF-02_zirc32	NAF-02_zirc33	NAF-02_zirc34	NAF-02_zirc35	NAF-02_zirc36	NAF-02_zirc37	NAF-02_zirc38b	NAF-02_zirc38t	NAF-02_zirc39	NAF-02_zirc4	NAF-02_zirc40	NAF-02_zirc41	NAF-02_zirc42	NAF-02_zirc43	NAF-02_zirc44	NAF-02_zirc45	NAF-02_zirc5	NAF-02_zirc6	NAF-02_zirc7	NAF-02_zirc8	NAF-02_zirc9 NAF-03_zirc1	NAF-03_zirc10	NAF-03_zirc11	NAF-03_zirc12	NAF-03_zirc13	NAF-03_zirc14	NAF-03_zirc15	NAF-03_zirc16	NAF-03_zirc17	NAF-03_zirc18	NAF-03_zirc19	NAF-03_zirc2	NAF-03_zirc20	NAF-03_zirc21

Appendix C: Eastern Sunda arc zircon trace element chemistry

	11.2.8         0.46         29.50         1140.02         20.77         0.000         60.91         0.68         0.88         0.88         0.88         0.89         0.89         0.98	3.73 9.80		<i>- - - - - - - - - -</i>		
	334.35         11,09         23.70         3093.37         61 87         0.006         182.9         11,09         20.44         0.009         182.9         11,09         20.45         0.009         12,09         20.45         0.019	0.76 0.86 0.88 0.89		<i>t- t- t-</i>		
	24476         11.1         10002217         22.93         0.003         68.24         0.84         0.88         24.84         0.101         0.101         0.101         0.01         0.01         0.01         0.01         0.02	3.80 6.50 6.50 6.50 6.50 7.51 7.51 7.50 8.80 8.30 8.40 8.30 8.00	+ + + + + + + + + + + + + + + + + + +	<i>t- t- t-</i>		
	344.78         113         26.62         12928.79         46.78         0.006         120.41         0.119         0.114         0.119         0.114         0.119         0.114         0.114         0.114         0.114         0.114         0.114         0.114         0.014	8 8 50 1 3 08 8 9 8 9 9 8 8 5 9 9 7 2 5 7 2 5 8 8 8 8 4 4 6 8 4 4 6 8 4 6 8 4 8 8 7 2 6 8 6 18 9 10 06 1 2 2 2 1 3 3 3 1 3 3 6 1 4 4 6 1 6 18 1 7 2 6 1 8 18 1 9 10 06 1 0 06 1 1 2 16 1 1 1 16		<i>- - - - - - - - - -</i>		
	349.02         17.4         37.20         8881.35         64.27         0.024         162.70         15.65         0.046         0.077         4.89         0.048         0.034         17.20         255.10         0.0046         0.034         17.20         0.056         0.035         0.009         0.034         0.077         15.00         0.009         0.034         0.077         0.046         0.024         0.077         0.046         0.026         0.038         0.009         0.019         0.039         0.039         0.039         0.039         0.039         0.039         0.039         0.039         0.039         0.039         0.039         0.039         0.039         0.049         0.039         0.049         0.039         0.049         0.039         0.049         0.029         0.049         0.029         0.049         0.039         0.049         0.039         0.049	13.08 1.3.08		<i>- - - - - - - - - -</i>		
	144.88         1.31         1.77         973.6.28         97.16         10.287         66.91         1.07         15.10         255.103         0.009         0.01         6.08         0.03         1.07         15.10         255.10         0.009         0.01         0.02         1.07         0.02         1.07         0.00         0.01         0.00         0.00         0.01         0.00         0.00         0.01         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.	6.83 9.388 5.76 7.26 6.89 9.49 1.20		<i>- - - - - - - - - -</i>		
	173.18         0.55         1173         10271.95         22.81         0.004         62.34         0.71         0.62         23.55.0         0.009         0.03         1.83         0.03         1.83         0.03         1.83         0.03         1.83         0.03         1.83         0.03         1.83         0.03         1.83         0.03         1.83         0.03         1.83         0.03         1.83         0.03         1.83         0.03         1.83         0.03         1.83         0.03         1.83         0.03         1.83         0.03         1.83         0.03         1.83         0.03         1.83         0.03         1.83         0.03 <td>3.88 5.75 6.75 7.75 8.85</td> <td>7 7 77</td> <td></td> <td></td> <td></td>	3.88 5.75 6.75 7.75 8.85	7 7 77			
	178.40         0.81         168.90         98637.80         33.21         0.007         65.25         0.96         0.88         33.84.1         0.015         0.05         27.7         0.04           142.05         1.40         1.746         10325.70         2.745         0.004         7.88         0.04         7.88         0.04         0.04         1.88         0.07         1.98         0.01         0.07         1.99         0.01         0.02         1.69         0.01         0.02         1.69         0.01         0.02         0.01         0.01         0.02         0.01         0.01         0.02         0.01         0.01         0.02         0.01         0.02         0.01         0.02         0.01         0.02         0.02         0.01         0.01         0.02         0.02         0.01         0.01         0.02         0.02         0.01         0.01         0.02         0.02         0.01         0.01         0.02         0.02         0.01         0.01         0.02         0.02         0.01         0.02         0.02         0.01         0.01         0.02         0.02         0.02         0.01         0.01         0.02         0.02         0.01         0.01         0.02	5.91 5.76 5.76 7.51 7.51 7.52 8.38 8.38 8.38 8.38 8.38 9.49 10.06 10.06 10.09	7 7 77			
14.   1.4   1.4   1.4   1.4   1.4   1.4   1.4   2.4	142.06         14.40         17.46         107.45         7.11         7.14	5.76 5.25 5.25 7.26 8.38 8.40 9.40 10.06 10.06 10.00 1		· · · · · · · · · · · · · · · · · · ·		
	105.83         0.56         8.72         1918.36         17.88         0.004         70.88         0.074         192.86         0.004         10.52         1.64         0.004         0.004         10.52         1.64         0.004         0.004         0.004         0.004         10.52         1.64         0.004         0.004         0.004         0.004         0.004         1.65         0.004         0	2.95 7.51				
	165.18         0.02         1.501         10113-56         28.88         0.007         53.64         0.92         1.564         0.009         0.017         2.34         0.009         0.017         2.34         0.009         0.018         1.562         0.009         0.018         1.52         0.009         0.018         1.52         0.018         0.01         0.11         1.000         0.018         1.50         0.009         0.08         1.50         0.009         0.018         1.50         0.014         1.80         0.014         1.80         0.014         1.80         0.014         1.80         0.014         1.80         0.014         1.80         0.014         1.80         0.014         1.80         0.014	5.25 4.48 4.48 4.48 4.49 4.91 6.89 6.89 6.89 6.89 6.89 6.90 6.90 6.10		<u></u>		
	116.51         0.08         2.3.70         10656.83         38.1.2         0.007         75.93         0.08         1.53         20.50         0.0021         0.01         3.00         0.16           116.23         0.08         1.24         1.014.38         38.12         0.003         38.98         1.98         1.92         0.003         0.01         1.18         0.01         1.18         0.01         1.18         0.01         1.18         0.01         1.18         0.01         1.18         0.01         1.18         0.01         1.18         0.01         1.18         0.01         1.18         0.01         1.18         0.01         1.18         0.01         1.18         0.02         1.09         1.18         0.01         0.00         1.18         0.01         0.00         1.18         0.01         0.00         1.18         0.00         1.18         0.00         1.18         0.00         1.18         0.00 <td< td=""><td>7.51 4.18 9.38 9.38 9.18 1.22 1.23 1.24 1.25</td><td></td><td><u> </u></td><td></td><td></td></td<>	7.51 4.18 9.38 9.38 9.18 1.22 1.23 1.24 1.25		<u> </u>		
	118.66         0.06         12.11         1023.161         2.196         0.003         59.68         0.08         192.2         0.018         0.04         1.18         0.04         1.18         0.04         1.18         0.04         1.18         0.04         1.18         0.04         1.18         0.04         1.18         0.04         1.18         0.04         1.18         0.04         1.18         0.04         1.18         0.04         1.18         0.04         1.18         0.04         1.18         0.04         1.18         0.04         1.18         0.04         1.18         0.04         1.18         0.04         1.18         0.04         0.05         0.04         1.18         0.04         1.18         0.04         1.18         0.04         0.04         0.05         0.04         0.05         0.04         0.05         0.04         0.05         0.04         0.05         0.04         0.05         0.04         0.05         0.04         0.05         0.04         0.05         0.04         0.05         0.04         0.05         0.04         0.05         0.04         0.05         0.04         0.05         0.04         0.05         0.04         0.05         0.04         0.05         0.04	4.18 3.36 4.69 3.36 5.12 6.18 7.26 6.18 13.33 13.33 10.06 5.90 12.22 12.14 12.14 12.14 12.16 12.10 10.09 12.10 12.10 12.10 12.10 12.10 13.13 13.13 13.13 13.14 13.	£ £ £ £ £ £ £ £ £ £ £ £ £ £ £ £ £ £ £			
	146.23         0.89         8.79         997.531         19.46         0.172         83.81         0.84         1.16         227.21         0.082         0.08         1.38         0.29         1.18         0.23         1.18         1.18         0.14         0.04         1.18         0.14         0.04         1.18         0.04         1.18         0.04         0.14         0.04	3.38 4.69 4.69 5.18 6.18 6.18 6.19 6.10	£ £ £ £ £ £ £			
4.1.                 1.0.                 1.0.                 1.0.                 1.0.                 1.0.                 1.0.                 1.0.                1.0.                 1.0.                 1.0.                 1.0.                 1.0.                 1.0.                 1.0.                 1.0.                 1.0.                 1.0.                 1.0.                 1.0.                 1.0.                 1.0.                 1.0.                 1.0.                 1.0.                1.0.                 1.0.                 1.0.                 1.0.                 1.0.                 1.0.                 1.0.                 1.0.                 1.0.                 1.0.                 1.0.                 1.0.                 1.0.                 1.0.                 1.0.                 1.0.                 1.0.                      1.0.                  1.0.                     1.0.                      1.0.                     1.0.                      1.0.                      1.0.                      1.0.                      1.0.                      1.0.                      1.0.                        1.0.                      1.0.                      1.0.                      1.0.                       1.0.                       1.0.                       1.0.                       1.0.                            1.0.                        1.0.                       1.0. <td>141.71         0.77         13.77         10104.38         26.72         0.056         7.364         0.88         0.83         259.56         0.699         0.06         1.87         0.07         1.27         1.0104.38         26.72         0.055         7.364         0.88         0.83         259.56         0.699         0.07         1.87         0.07         3.75         0.07         1.28         1.0728.43         1.98         0.074         0.07         1.87         0.07         1.77         0.07         2.75         0.08         1.22         4.47         0.07         2.25         0.09         0.09         0.17         0.07         2.25         0.09         0.07         2.25         0.09         0.07         2.25         0.09         0.07         2.25         0.09</td> <td>4 68 3 385 6 4 91 6 4 91 7 26 6 88 1 3 33 9 19 1 2 22 1 2 22 1 2 22 1 2 22 1 2 22 1 2 22 1 3 34 1 2 22 1 2 22 1 3 34 1 3 74 1 6 10 1 9 10 1 9 10 1 /td> <td></td> <td><u> </u></td> <td></td> <td></td>	141.71         0.77         13.77         10104.38         26.72         0.056         7.364         0.88         0.83         259.56         0.699         0.06         1.87         0.07         1.27         1.0104.38         26.72         0.055         7.364         0.88         0.83         259.56         0.699         0.07         1.87         0.07         3.75         0.07         1.28         1.0728.43         1.98         0.074         0.07         1.87         0.07         1.77         0.07         2.75         0.08         1.22         4.47         0.07         2.25         0.09         0.09         0.17         0.07         2.25         0.09         0.07         2.25         0.09         0.07         2.25         0.09         0.07         2.25         0.09	4 68 3 385 6 4 91 6 4 91 7 26 6 88 1 3 33 9 19 1 2 22 1 2 22 1 2 22 1 2 22 1 2 22 1 2 22 1 3 34 1 2 22 1 2 22 1 3 34 1 3 74 1 6 10 1 9 10 1 9 10 1		<u> </u>		
4.0	122         1.06         1.06         1.06         0.017         64.01         0.55         1.22         147.81         0.157         0.07         2.53         0.10           122         1.06         1.06         1.06         1.06         0.017         0.009         60.23         0.81         1.35         24.19         0.07         2.63         0.147         0.07         2.53         0.00         0.00         1.35         1.49         1.77         50.83         0.019         0.01         2.53         0.00         0.01         2.53         0.00         0.01         2.53         0.00         0.01         2.53         0.00         0.01         0.02         0.02         0.02         0.02         0.02         0.02         0.02         0.02         0.02         0.02         0.02         0.03         0.02         0.03         1.07         0.03         0.04         0.02         0.02         0.03	3.85 6.18 7.26 27.20 6.89 13.33 12.22 12.22 12.22 12.22 12.22 12.22 12.22 12.22 12.22 12.22 13.74 12.74 12.76 10.09 12.76 12.76 10.09 12.76 13.74 17.7		<u> </u>		
12.         12. <td>1.05         1.06         1.06         1.09         60.23         0.81         1.35         241.98         0.147         0.07         37.5         0.20           1.66.13         0.82         1.78         1.008.83         31.08         0.124         67.53         0.68         1.32         283.25         0.009         0.10         2.82         0.00           556.24         4.00         9.02.1         21.28         1.00         1.17         5.68         1.32         283.25         0.009         0.10         2.82         0.00         0.00         2.81         0.00         2.81         0.00         0.</td> <td>4.91 6.18 7.26 6.38 6.33 13.33 9.19 10.06 5.90 12.22 12.14 13.74 12.10 10.09 12.76 12.69 12.76 12.76 12.76 12.76 12.76 12.76 12.76 12.76 12.76 12.76 12.76 12.76 12.76 12.76 12.76 12.76 12.77 12.77 12.76 1</td> <td></td> <td></td> <td></td> <td></td>	1.05         1.06         1.06         1.09         60.23         0.81         1.35         241.98         0.147         0.07         37.5         0.20           1.66.13         0.82         1.78         1.008.83         31.08         0.124         67.53         0.68         1.32         283.25         0.009         0.10         2.82         0.00           556.24         4.00         9.02.1         21.28         1.00         1.17         5.68         1.32         283.25         0.009         0.10         2.82         0.00         0.00         2.81         0.00         2.81         0.00         0.	4.91 6.18 7.26 6.38 6.33 13.33 9.19 10.06 5.90 12.22 12.14 13.74 12.10 10.09 12.76 12.69 12.76 12.76 12.76 12.76 12.76 12.76 12.76 12.76 12.76 12.76 12.76 12.76 12.76 12.76 12.76 12.76 12.77 12.77 12.76 1				
4.4.         7.4. <th< td=""><td>156.13         0.82         17.83         10109.38         31.08         0.124         67.53         0.68         1.32         289.32         &lt;0.000         0.10         2.92         0.02           255.24         4.00         90.21         1.03         92.83.93         44.70         0.004         115.35         1.49         107         502.27         0.002         0.06         2.61         0.38           255.24         4.00         90.21         23.80         9828.27         30.00         2.66         2.67         4.54         7.65         228.34         0.046         2.61         0.36         2.61         0.36         2.64         0.04         3.28         0.04         3.74.30         0.046         2.64         0.04         3.74.30         0.04         2.61         0.04         4.04         0.04         4.04         0.06         2.61         0.04         4.02         0.04         4.02         0.04         4.02         0.04         4.02         0.04         4.04         0.04         4.04         0.04         4.04         0.04         4.04         0.04         4.04         0.04         4.04         0.04         4.04         0.04         4.04         0.04         4.04         0.04</td><td>6.18 7.26 6.88 13.33 9.19 10.06 5.90 12.22 12.14 13.74 12.10 10.09 12.76 12.69 12.69 12.69 12.76 12.76 12.76 12.76 12.76 12.76 13.77 14.77 15.77 16.19 17.76</td><td></td><td></td><td></td><td></td></th<>	156.13         0.82         17.83         10109.38         31.08         0.124         67.53         0.68         1.32         289.32         <0.000         0.10         2.92         0.02           255.24         4.00         90.21         1.03         92.83.93         44.70         0.004         115.35         1.49         107         502.27         0.002         0.06         2.61         0.38           255.24         4.00         90.21         23.80         9828.27         30.00         2.66         2.67         4.54         7.65         228.34         0.046         2.61         0.36         2.61         0.36         2.64         0.04         3.28         0.04         3.74.30         0.046         2.64         0.04         3.74.30         0.04         2.61         0.04         4.04         0.04         4.04         0.06         2.61         0.04         4.02         0.04         4.02         0.04         4.02         0.04         4.02         0.04         4.04         0.04         4.04         0.04         4.04         0.04         4.04         0.04         4.04         0.04         4.04         0.04         4.04         0.04         4.04         0.04         4.04         0.04	6.18 7.26 6.88 13.33 9.19 10.06 5.90 12.22 12.14 13.74 12.10 10.09 12.76 12.69 12.69 12.69 12.76 12.76 12.76 12.76 12.76 12.76 13.77 14.77 15.77 16.19 17.76				
44.2                11.                11.                11.                11.                11.                11.                11.                11.                11.                11.                11.                11.               11.                11.                11.                11.                11.                11.                11.               11.                 11.                11.                11.                11.                11.               11.                11.                11.                11.                11.                11.                11.                11.                11.                11.                11.                11.                11.                11.                11.                11.                11.                 11.                11.                11. <th< td=""><td>244.36         1.12         1807         9538.39         44.70         0.084         115.35         1.49         1.07         562.72         0.035         0.03         2.61         0.38           255.24         4.06         90.21         928.85         117.17         0.028         20297         1.71         5.66         552.21         0.045         0.34         12.88         0.36         2.66         92.87         1.71         5.66         522.21         0.045         0.34         12.88         0.36         0.34         1.88         0.36         0.34         1.88         0.36         0.34         0.34         0.34         0.34         0.34         0.34         1.82         2.86         2.85         2.89         0.147         0.04         1.72         0.68         2.89         0.14         0.06         0.34         1.82         0.06         0.34         0.06         0.34         0.06         0.34         0.06         0.34         0.06</td><td>2,726 6,89 13,33 10,06 5,90 12,22 12,12 12,14 13,74 12,10 10,09 12,76 12,60 12,60 12,60 12,60 12,60 12,60 12,60 12,76 12,76 12,60 12,76 12</td><td></td><td>· · · · ·</td><td></td><td></td></th<>	244.36         1.12         1807         9538.39         44.70         0.084         115.35         1.49         1.07         562.72         0.035         0.03         2.61         0.38           255.24         4.06         90.21         928.85         117.17         0.028         20297         1.71         5.66         552.21         0.045         0.34         12.88         0.36         2.66         92.87         1.71         5.66         522.21         0.045         0.34         12.88         0.36         0.34         1.88         0.36         0.34         1.88         0.36         0.34         0.34         0.34         0.34         0.34         0.34         1.82         2.86         2.85         2.89         0.147         0.04         1.72         0.68         2.89         0.14         0.06         0.34         1.82         0.06         0.34         0.06         0.34         0.06         0.34         0.06         0.34         0.06	2,726 6,89 13,33 10,06 5,90 12,22 12,12 12,14 13,74 12,10 10,09 12,76 12,60 12,60 12,60 12,60 12,60 12,60 12,60 12,76 12,76 12,60 12,76 12		· · · · ·		
4.56         4.66         4.67         6.68         4.67         6.68         6.69         6.79 <th< td=""><td>55.24         4,06         90.21         92.86         117.1         0.028         20.97         1.71         5.66         522.21         0.045         0.34         12.88         0.34         0.28           216.87         0.76         19.84         10349.12         33.77         0.007         10725         1.59         1.13         374.30         0.142         0.04         2.58         0.88         2.88.37         0.007         10725         1.59         47.30         0.142         0.04         2.58         0.89         0.142         0.04         2.58         0.99         0.14         0.07         0.07         10.02         2.58         47.30         0.109         0.12         6.58         2.28         47.30         0.07         0.07         11.2         0.08         0.046         0.09         0.09         1.12         0.08         0.046         0.09         0.09         1.12         0.08         2.87         0.09         0.01         1.02         2.28         0.09         0.01         1.02         2.28         1.02         0.02         0.09         0.09         1.12         0.08         0.02         0.09         0.09         0.09         0.09         0.09         0.09         0.09</td><td>27.20 6.89 13.33 9.19 10.06 12.22 12.14 13.74 6.19 10.09 12.76 12.69 12.69 9.49</td><td></td><td></td><td></td><td></td></th<>	55.24         4,06         90.21         92.86         117.1         0.028         20.97         1.71         5.66         522.21         0.045         0.34         12.88         0.34         0.28           216.87         0.76         19.84         10349.12         33.77         0.007         10725         1.59         1.13         374.30         0.142         0.04         2.58         0.88         2.88.37         0.007         10725         1.59         47.30         0.142         0.04         2.58         0.89         0.142         0.04         2.58         0.99         0.14         0.07         0.07         10.02         2.58         47.30         0.109         0.12         6.58         2.28         47.30         0.07         0.07         11.2         0.08         0.046         0.09         0.09         1.12         0.08         0.046         0.09         0.09         1.12         0.08         2.87         0.09         0.01         1.02         2.28         0.09         0.01         1.02         2.28         1.02         0.02         0.09         0.09         1.12         0.08         0.02         0.09         0.09         0.09         0.09         0.09         0.09         0.09	27.20 6.89 13.33 9.19 10.06 12.22 12.14 13.74 6.19 10.09 12.76 12.69 12.69 9.49				
41.0.                42.0.                43.0.                43.0.                43.0.                43.0.                43.0.                43.0.               43.0.                43.0.               43.0.                43.0.                43.0.                43.0.                43.0.                43.0.                43.0.                43.0.                43.0.                43.0.                43.0.                43.0.                43.0.               43.0.                 43.0.                 43.0.                 43.0.                 43.0.                 43.0.                 43	216.87         0.76         19.84         10949.12         38.77         0.007         1075         1.59         1.13         374.30         0.142         0.04         2.56         0.04         1.05         1.14         0.04         0.04         0.07         0.04         1.05         1.15         0.04         0.04         0.07         0.04         1.05         2.56         0.04         0.06         0.04	6.89 13.33 19.06 10.06 5.90 12.22 12.14 13.74 6.19 10.09 12.76 12.69 9.49 9.49				
44.15         45.2         56.2         57.2 <t< td=""><td>44129         240         32.80         9582.57         80.03         2666         235.07         454         765         2286.34         0.108         1.25         547         1.02           32344         1.76         22.85         9287.25         5745         0.043         166.28         251         1.26         417.80         0.170         0.077         3.17         0.62           341.68         1.77         26.31         9428.67         62.39         0.071         1344         11.2         64.78         0.047         0.077         0.08         36.40         0.170         0.077         0.079         1344         11.2         0.049         0.170         0.09         0.071         0.06         26.247         0.079         0.071         0.06         26.247         0.06         0.079         0.074         0.06         0.079         0.074         0.06         0.079         0.074         0.06         0.079         0.074         0.06         0.079         0.074         0.079         0.074         0.06         0.079         0.074         0.06         0.079         0.074         0.06         0.079         0.074         0.06         0.074         0.06         0.074         0.06         0.074</td></t<> <td>13.33 10.06 5.90 12.22 12.14 13.74 6.19 10.09 12.76 12.69 9.49 9.49</td> <td></td> <td></td> <td></td> <td></td>	44129         240         32.80         9582.57         80.03         2666         235.07         454         765         2286.34         0.108         1.25         547         1.02           32344         1.76         22.85         9287.25         5745         0.043         166.28         251         1.26         417.80         0.170         0.077         3.17         0.62           341.68         1.77         26.31         9428.67         62.39         0.071         1344         11.2         64.78         0.047         0.077         0.08         36.40         0.170         0.077         0.079         1344         11.2         0.049         0.170         0.09         0.071         0.06         26.247         0.079         0.071         0.06         26.247         0.06         0.079         0.074         0.06         0.079         0.074         0.06         0.079         0.074         0.06         0.079         0.074         0.06         0.079         0.074         0.079         0.074         0.06         0.079         0.074         0.06         0.079         0.074         0.06         0.079         0.074         0.06         0.074         0.06         0.074         0.06         0.074	13.33 10.06 5.90 12.22 12.14 13.74 6.19 10.09 12.76 12.69 9.49 9.49				
23.34         17.5         2.66         9.62 <t< td=""><td>32.344         1.76         22.85         9287.25         57.45         0.043         186.28         251         1.26         417.80         0.17         0.07         317         0.62           341.68         1.77         1.86.31         9428.67         62.39         0.071         196.45         2.63         1.20         455.78         0.466         0.10         3.70         0.61           220.06         1.01         13.38         87.91         0.239         0.071         196.45         2.63         1.20         455.79         0.146         0.07         0.07         1.21         0.06         0.13         0.07         0.07         1.22         5.64.79         0.149         0.06         0.10         0.07         1.22         6.67         0.14         0.06         0.13         0.07         0.07         2.24         4.61         1.22         6.65.79         0.14         0.08         4.71         0.08         0.07         1.00         0.07         2.24         4.61         1.22         6.65         0.10         0.07         2.24         0.07         2.24         0.07         2.24         4.61         1.22         6.67         0.07         2.24         0.07         2.24         4.61<!--</td--><td>9.19 10.06 5.90 12.22 12.14 13.74 12.10 10.09 12.76 12.69 12.69 9.49 7.37</td><td></td><td></td><td></td><td></td></td></t<>	32.344         1.76         22.85         9287.25         57.45         0.043         186.28         251         1.26         417.80         0.17         0.07         317         0.62           341.68         1.77         1.86.31         9428.67         62.39         0.071         196.45         2.63         1.20         455.78         0.466         0.10         3.70         0.61           220.06         1.01         13.38         87.91         0.239         0.071         196.45         2.63         1.20         455.79         0.146         0.07         0.07         1.21         0.06         0.13         0.07         0.07         1.22         5.64.79         0.149         0.06         0.10         0.07         1.22         6.67         0.14         0.06         0.13         0.07         0.07         2.24         4.61         1.22         6.65.79         0.14         0.08         4.71         0.08         0.07         1.00         0.07         2.24         4.61         1.22         6.65         0.10         0.07         2.24         0.07         2.24         0.07         2.24         4.61         1.22         6.67         0.07         2.24         0.07         2.24         4.61 </td <td>9.19 10.06 5.90 12.22 12.14 13.74 12.10 10.09 12.76 12.69 12.69 9.49 7.37</td> <td></td> <td></td> <td></td> <td></td>	9.19 10.06 5.90 12.22 12.14 13.74 12.10 10.09 12.76 12.69 12.69 9.49 7.37				
34115         117         26.3         96.26         66.2         67.0         10.0         10.7         66.4         10.0         10.2         67.0         11.0 <t< td=""><td>241.65         1.77         26.31         9428.67         62.39         0.071         196.45         26.33         1.20         458.78         0.456         0.10         37.0         0.61           220.62         1.01         13.98         9759.17         74.84         0.019         133.44         1.12         0.66         382.40         0.132         0.01         1.74         0.25         0.03         1.74         0.25         0.03         1.74         0.06         982.40         0.13         1.74         0.05         0.01         0.01         2.255.13         4.61         1.25         4654.70         0.146         0.02         0.01         2.255.13         4.61         1.25         4654.70         0.146         0.05         0.01         0.02         2.255.13         4.61         1.25         4654.70         0.146         0.05         0.07         2.255.13         4.61         1.25         4654.70         0.169         0.01         0.01         0.02         2.245.72         4.61         1.25         4654.70         0.169         0.17         0.02         2.245.72         4.61         1.25         4654.70         0.05         0.01         0.01         0.01         0.01         0.01         0.01</td><td>5.90 5.90 12.22 12.14 13.74 13.74 12.00 12.76 12.69 12.79 12.70 12</td><td>44 44,</td><td></td><td></td><td></td></t<>	241.65         1.77         26.31         9428.67         62.39         0.071         196.45         26.33         1.20         458.78         0.456         0.10         37.0         0.61           220.62         1.01         13.98         9759.17         74.84         0.019         133.44         1.12         0.66         382.40         0.132         0.01         1.74         0.25         0.03         1.74         0.25         0.03         1.74         0.06         982.40         0.13         1.74         0.05         0.01         0.01         2.255.13         4.61         1.25         4654.70         0.146         0.02         0.01         2.255.13         4.61         1.25         4654.70         0.146         0.05         0.01         0.02         2.255.13         4.61         1.25         4654.70         0.146         0.05         0.07         2.255.13         4.61         1.25         4654.70         0.169         0.01         0.01         0.02         2.245.72         4.61         1.25         4654.70         0.169         0.17         0.02         2.245.72         4.61         1.25         4654.70         0.05         0.01         0.01         0.01         0.01         0.01         0.01	5.90 5.90 12.22 12.14 13.74 13.74 12.00 12.76 12.69 12.79 12.70 12	44 44,			
12.0.0.0.         13.1.0.         98.09.1         7.0.0.         13.2.         0.0.0.         13.0.	220.62         1.01         13.98         8759.17         37.88         0.019         133.14         1.12         0.66         362.40         0.323         0.03         1.74         0.22           416.68         2.13         13.99         966.687         74.54         0.128         223.55         3.82         1.42         554.79         0.156         0.13         0.13         0.03         0.77           455.42         1.48         2.87         3.44         0.04         223.55         3.82         1.42         554.79         0.156         0.13         0.03         0.77           457.42         1.48         1.28         3.49         1.29         467.34         0.04         0.03         244.72         0.04         0.04         0.04         1.28         443.14         0.05         0.04	5.90 12.22 12.14 13.74 6.19 12.00 12.06 12.06 12.08 12.09 12.00 10 10 10 10 10 10 10 10 10 10 10 10 1	44 44	, ,		
4.4 c. 4	416.88         2.13         31.99         956.0 87         74.54         0.128         223.55         3.82         1.42         564.79         0.156         0.12         3.59         0.77           455.42         1.88         28.79         956.08         7.247.2         4.86         1.30         456.40         0.134         0.06         4.00         1.00           455.42         1.18         1.28         3.40         0.00         2.447.2         4.86         1.30         465.41         0.06         0.00         1.27         467.14         0.06         0.00         0.00         2.41.2         467.14         0.06         0.00         0.00         2.41.3         4.43         1.23         467.50         0.00         0.00         0.00         2.43         4.43         1.23         407.50         0.00         0.00         0.00         2.43         4.43         1.23         407.50         0.00         0.00         0.00         2.43         4.73         0.00         0.00         0.00         2.43         4.73         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.0	12.22 12.14 13.74 6.19 12.10 10.09 12.76 18.62 12.69 12.69 14.9	~ · · · · · · · · · · · · · · · · · · ·			
45.24         18.8         28.3         28.9         28.5         4.8         1.0         4.8         1.0         1.2         1.2         1.0         2.9         1.2         1.2         1.0         2.9         1.2         1.2         1.2         1.2         1.0         1.2         1.2         1.2         1.2         1.2         1.2         1.2         1.2         1.2         1.2         1.2         1.2         1.2         1.2         1.0         1.2         1.2         1.0         1.2         1.2         1.0         1.2         1.2         1.0         1.2         1.2         1.0         1.2         1.2         1.0         1.2         1.2         1.0         1.2         1.2         1.0         1.2         1.2         1.0         1.2         1.2         1.0         1.2         1.2         1.0         1.2         1.2         1.0         1.2         1.2         1.0         1.2         1.2         1.0         1.2         1.2         1.0         1.0         1.2         1.0         1.0         1.0         1.0         1.2         1.0         1.0         1.0         1.0         1.0         1.0         1.0         1.0         1.0         1.0         1	455.42         1.65         28.79         9234.15         78.81         0.007         255.13         4.86         1.30         455.40         0.134         0.06         4.00         1.00           457.20         2.24         34.41         9618.20         38.97         0.020         2447.2         461         1.25         463.34         0.068         0.03         241.72         461         1.25         463.34         0.068         0.03         241.72         461         1.25         463.34         0.068         0.03         241.72         461         1.25         463.34         0.068         0.03         241.72         461.76         0.049         0.05         0.044         1.25         463.34         0.068         0.03         241.73         0.076         0.086         0.076         0.086         0.086         0.086         0.076         0.087         0.076         0.086         0.087         0.076 <td>12.14 6.19 12.10 10.09 12.76 12.69 12.69 12.69 14.9 7.37</td> <td></td> <td></td> <td>•</td> <td></td>	12.14 6.19 12.10 10.09 12.76 12.69 12.69 12.69 14.9 7.37			•	
446.72         2.44         344         968.2         6.03         4.14         968.2         6.03         1.04         1.05         4.84         1.05         4.04         1.05         4.14         1.05         4.04         1.05         1.04         1.05         1.04         1.05         1.04         1.05	457.20         2.24         34.41         9618.20         83.97         0.020         24472         461         1.25         463.14         0.088         0.06         4.11         0.56           214.86         1.12         16.01         7882.48         38.00         0.004         133.05         0.87         0.74         362.38         0.066         0.03         2.01         0.02           430.19         1.20         2.03         2.01         0.004         133.05         0.87         0.74         362.38         0.066         0.03         2.01         0.02           445.59         1.99         2.02         3003.12         7.759         0.004         24.76         4.76         8.66         0.053         0.143         0.06         0.03         0.88           445.59         1.99         2.02         0.004         24.70         4.76         8.66         0.053         0.143         0.08         0.88         0.06         0.03         0.08         0.09         0.09         0.09         0.09         0.09         0.09         0.09         0.09         0.09         0.09         0.09         0.09         0.09         0.09         0.09         0.09         0.09         0.09 <td>13.74 12.10 10.09 12.76 18.62 12.69 12.69 1.167</td> <td></td> <td></td> <td></td> <td></td>	13.74 12.10 10.09 12.76 18.62 12.69 12.69 1.167				
47.5         5.5         4.0         7.0         3.6         7.0 <td>214.86         1.12         16.01         7982.48         38.00         0.004         123.05         0.87         0.74         382.38         0.066         0.03         2.01         0.22           430.19         2.07         2.937         1916.84         77.32         0.006         224.33         4.43         1.23         407.55         0.100         0.05         3.52         0.83           430.19         2.07         2.937         916.84         77.59         0.001         241.40         4.18         3.05         0.00         0.05         243.40         4.18         407.55         0.100         0.05         3.52         0.05         0.83         0.05</td> <td>6.19 12.10 10.09 12.76 18.62 12.69 9.49 7.37</td> <td>~ ~ ~</td> <td></td> <td>•</td> <td></td>	214.86         1.12         16.01         7982.48         38.00         0.004         123.05         0.87         0.74         382.38         0.066         0.03         2.01         0.22           430.19         2.07         2.937         1916.84         77.32         0.006         224.33         4.43         1.23         407.55         0.100         0.05         3.52         0.83           430.19         2.07         2.937         916.84         77.59         0.001         241.40         4.18         3.05         0.00         0.05         243.40         4.18         407.55         0.100         0.05         3.52         0.05         0.83         0.05	6.19 12.10 10.09 12.76 18.62 12.69 9.49 7.37	~ ~ ~		•	
4001 8 2 4.42 9 9156 94 77 2 0 0.06 234.3 4.4 1 123 407.56 0 100 0 0.0 3.50 124 9 66.0 196.7 1 26.0 1 106.0 1	430.19         2.07         2.937         916.84         77.32         0.006         224.33         4.43         1.23         407.56         0.100         0.055         3.52         0.83           430.98         1.88         24.22         9037.55         6.01         0.011         1881.3         24.1         1.33         386.21         0.061         0.07         3.68         0.88         0.88         0.08         0.08         4.18         1.43         506.1         0.07         3.08         0.08         0.08         0.03         0.143         0.88         0.08         0.08         0.09         4.18         1.43         506.1         0.06         4.09         0.09         0.09         4.67         0.94         467.26         0.07         0.01         0.09	12.10 10.09 12.76 12.69 9.49 7.37			•	
30.00         1.00         2.0.2         2.0.2         2.0.0.2         1.00         2.0.0         1.00         2.0.0         1.00         3.0.0         1.00         3.0.0         1.00         3.0.0         1.00         3.0.0         1.00         3.0.0         1.00         3.0.0         1.00         3.0.0         2.0.0         3.0.0         2.0.0         4.0.0         3.0.0         2.0.0         4.0.0         3.0.0         2.0.0         4.0.0         3.0.0         2.0.0         4.0.0         3.0.0         2.0.0         4.0.0         3.0.0         4.0.0         3.0.0         2.0.0         4.0.0         3.0.0         4.0.0         3.0.0         4.0.0         3.0.0         4.0.0         3.0.0         4.0.0         4.0.0         4.0.0         4.0.0         3.0.0         4.0.0 </td <td>330.88         1.88         2.4.22         9037.55         60.01         0.011         1881.3         24.1         1.33         396.21         0.061         0.07         3.06         0.22           445.58         1.39         2.20.6         2.93.91.2         77.59         0.034         2.41.0         4.18         1.43         506.11         0.082         0.06         4.03         0.88           442.51         1.99         3.20.6         2.97.60         4.76         6.66         60.05.3         0.10         0.08         9.09         1.09         4.76         6.66         60.05.3         0.10         0.08         9.09         1.28         0.09         4.76         6.66         60.05.3         0.10         0.09         1.08         9.09         9.09         1.08         9.09         1.09         0.09         1.61.23         1.14         0.08         467.25         0.07         0.09         1.08         2.38         1.02         0.09         1.08         1.08         9.09         1.08         1.08         9.09         1.08         1.08         9.09         1.08         1.08         4.09         1.09         1.14         0.08         1.00         9.09         1.08         9.09         <t< td=""><td>10.09 12.76 12.69 9.49 7.37</td><td></td><td></td><td>•</td><td></td></t<></td>	330.88         1.88         2.4.22         9037.55         60.01         0.011         1881.3         24.1         1.33         396.21         0.061         0.07         3.06         0.22           445.58         1.39         2.20.6         2.93.91.2         77.59         0.034         2.41.0         4.18         1.43         506.11         0.082         0.06         4.03         0.88           442.51         1.99         3.20.6         2.97.60         4.76         6.66         60.05.3         0.10         0.08         9.09         1.09         4.76         6.66         60.05.3         0.10         0.08         9.09         1.28         0.09         4.76         6.66         60.05.3         0.10         0.09         1.08         9.09         9.09         1.08         9.09         1.09         0.09         1.61.23         1.14         0.08         467.25         0.07         0.09         1.08         2.38         1.02         0.09         1.08         1.08         9.09         1.08         1.08         9.09         1.08         1.08         9.09         1.08         1.08         4.09         1.09         1.14         0.08         1.00         9.09         1.08         9.09 <t< td=""><td>10.09 12.76 12.69 9.49 7.37</td><td></td><td></td><td>•</td><td></td></t<>	10.09 12.76 12.69 9.49 7.37			•	
445.56         1.59         32.05         92.05         7.59         92.05         7.59         92.05         7.59         92.05         7.59         92.05         92.05         1.79         92.05         1.79         1.70         0.00         4.70         0.00         4.70         0.00         4.70         0.00         4.70         0.00         3.20         1.75         0.00         2.70         1.70         0.00         1.20         1.00         1.20         1.20         1.60         2.00         1.60         2.00         2.00         2.00         2.00         2.00         1.60         2.00         1.60         2.00         1.60         2.00         1.60         2.00         1.60         2.00         1.60         2.00         1.60         2.00         1.60         2.00         1.60         2.00         1.60         2.00         2.00         2.00         1.60         2.00	445.58         1.99         32.05         9239.12         77.59         0.034         243.40         4.18         1.43         566.11         0.082         0.06         4.03         0.88           59.97         5.57         22.21         9919.80         94.79         0.786         247.70         4.76         8.66         600.33         0.143         0.88         9.97         0.88           242.15         1.39         20.43         890.42         56.09         0.007         247.70         0.47         0.94         467.25         0.143         0.88         9.97         0.88           244.59         1.39         20.48         890.42         56.09         0.007         161.23         1.14         0.81         450.45         0.07	12.76 18.62 12.69 9.49 7.37				
509.97         55.21         961.90         961.90         97.0         67.0         18.0         18.0         18.0         18.0         22.0         17.0         17.5         48.0         97.0         18.0         18.0         18.0         18.0         20.0         18.0	509.97         5.7         5.2.21         9619.60         94.79         0.796         257.60         4.76         8.66         600.53         0.143         0.88         9.97         0.82           442.51         1.99         31.83         2933.48         78.35         0.007         247.70         4.67         0.94         467.75         0.170         0.05         2.38         1.24         50.75         0.076         2.07         2.07         0.07         2.28         1.04         0.07         0.09         2.94         0.75         0.07         0.09         2.94         0.75         0.07         0.09         2.94         0.77         0.07         0.09         2.94         0.75         0.07         0.09         2.94         0.75         0.07         0.09         2.94         0.75         0.09         0.94         2.75         0.09         2.94         0.75         0.09         2.94         0.75         0.09         0.94         2.75         0.09         0.09         0.94         0.76         0.28         0.09         0.94         0.09         0.94         0.09         0.09         0.09         0.09         0.09         0.09         0.09         0.09         0.09         0.09	18.62 12.69 9.49 7.37				
44.25 I         138         933.48         78.35         0.007         24.77 O         467         0.044         467.25         0.105         3.55         1.06         1.26 F         1.06 F         1.26 F         1.06 F         1.07 F	442.51         1.99         31.83         9293.48         78.35         0.007         247.70         467         0.94         467.25         0.120         0.05         3.55         1.06           324.15         1.63         24.08         8900.42         56.09         0.090         186.95         2.38         1.24         505.72         0.076         0.09         2.94         0.57           264.59         1.39         2.64         0.010         161.23         1.14         0.81         450.72         0.076         0.09         2.94         0.57           367.49         1.99         2.64         0.010         161.23         1.14         0.81         450.33         0.077         3.36         1.02           365.90         1.69         2.4257         4.75         1.13         387.12         0.154         0.07         3.38         1.02           366.59         1.69         2.4257         4.75         1.13         387.12         0.154         0.07         3.18         1.26         0.09         3.18         0.09         3.18         1.26         0.09         3.24         0.09         3.18         0.09         3.24         0.09         3.18         0.09         3.2	12.69 9.49 7.37 11.67			•	
32415         163         24,08         890042         5604         0.09         124         0.07         0.09         124         0.07         0.09         244         0.07         145         0.09         124         0.07         0.09         0.04         0.07         0.09         124         0.07         0.09         0.04         0.07         0.09         16123         1.14         0.09         1.09         0	284.15         163         24.08         890042         56.09         0.090         186.55         2.38         1.24         56.72         0.076         0.09         2.94         0.57           284.59         1.39         20.43         8935.33         45.40         0.010         161.23         1.14         0.81         450.45         0.076         0.07         2.78         0.28           44.45         1.90         2.86         7.32         4.05         0.041         141.24         1.13         87.12         0.154         0.07         3.34         0.91           36.54         1.89         2.86.59         1.60         1.89         1.33         419.34         0.057         0.05         3.34         0.89           426.68         1.85         2.897         9857.43         75.30         0.007         237.23         452         1.33         413.49         0.084         0.04         3.34         0.89           426.68         1.85         28.97         9857.43         75.30         0.007         237.23         452         1.33         413.49         0.084         0.04         3.74         1.02           43.66         2.89         98.69         0.008 <t< td=""><td>9.49 7.37 11.67</td><td></td><td></td><td></td><td></td></t<>	9.49 7.37 11.67				
264.59         1.39         2.043         8895.33         454.0         0.01         161.23         1.14         0.81         450.45         0.20         0.28         7.37         67.05         61.58         109.04         157.92         665.43         4872.22         46.370           424.98         1.39         2.64.3         972.13         7.64         0.05         3.46         0.07         0.07         0.07         0.07         1.06         1.06         1.06         1.06         1.06         1.06         1.06         1.06         1.06         1.06         1.06         1.06         1.07         1.07         0.06         2.06	264.59         1.39         20.43         89365.33         454.0         0.010         161.23         1.14         0.81         480.45         0.209         0.04         2.78         0.28           424.93         1.90         28.67         9722.13         76.34         0.056         242.57         4.75         1.08         469.33         0.077         0.07         3.35         1.02           365.90         1.68         2.62         90.44         1.42         1.28         419.34         0.057         0.07         3.35         1.02           366.90         1.68         2.89         0.008         1.96         3.75         1.33         413.49         0.057         0.05         3.34         0.69           426.68         1.68         2.89         0.007         2.37         3.51         1.35         413.49         0.064         0.04         3.74         1.02           485.76         2.20         3.69         9562.68         88.16         0.013         255.63         5.16         1.25         506.38         0.114         0.07         4.00         7.1           43.96         2.83         7.44         90.68         1.02         2.33         2.33         0.0	7.37				
424 38 1.90 286 78 972213 672 6 0.056 242.57 4.75 1.08 469.33 0.077 0.07 3.36 1.05 1.05 1.05 1.05 1.05 1.05 1.05 1.05	424.89 1.90 28.67 9722.13 76.34 0.066 242.57 4.75 1.08 469.33 0.077 0.07 3.35 1.02 357.40 357.40 357.21 357.21 357.40 357	11.67				_
357.49         1.89         26.1         944,401         64.2         0.014         149.2         3.73         1.13         387.7         0.154         0.05         1.084         142.8         78.5         7.18.3         7.18.3         485891.34         3.044         42.8         7.18.3         7.18.3         7.18.3         7.18.4         0.057         3.18         0.159         0.09         1.08         1.09         1.08         1.09         1.08         1.09         1.08         1.09         1.08         1.08         1.08         1.09         1.09         1.09         1.09         1.09         1.09         1.09         1.09         1.09         1.09         1.09         1.09         1.09         1.09         1.09         1.09         1.09	367.49         1.89         26.18         9414.01         64.22         0.014         194.28         3.73         1.13         387.12         0.154         0.06         3.18         0.91           366.59         1.65         26.26         927.968         65.89         0.008         196.07         3.18         1.26         419.34         0.057         0.05         3.34         0.69           426.68         1.85         28.97         9357.43         75.30         0.007         237.23         4.52         1.33         413.49         0.084         0.04         3.74         1.02           495.78         2.20         36.90         9662.68         88.16         0.013         255.63         5.16         1.25         506.38         0.114         0.07         4.32         1.03           495.6         2.53         37.4         4.94         4.48,4         5.16         1.25         506.38         0.114         0.07         4.32         1.03           40.0         2.50         3.74         9.04         2.23.37         3.72         1.48         4.48,4         5.0         4.00         0.71           40.0         2.50         3.74         0.02         2.23.37					_
366.59         165         26.20         987.96 68         65.20         10.00         10.00         10.93         0.00         10.30         98.44         85.44         171.49         2200.65         901.66         468.998.93         3.41           426.68         1.65         26.20         987.57         7.60         1.20         1.49         1.03         98.44         85.44         171.49         2200.65         901.66         468.99         3.41         1.00         1.25         1.13         3.60         962.00         1.00         256.34         1.14         1.15         3.60         962.00         1.00         256.04         90.00         1.00         26.00         1.14         1.00         1.15         1.15         26.00         1.14         1.17         1.15         26.00         1.00         4.48         4.60         0.71         1.00         1.00         4.40         0.71         1.00         1.00         1.00         1.14         1.00         1.15         1.00         1.14         1.00         1.15         1.15         1.15         1.15         1.15         1.14         1.17         1.15         2.60         1.14         1.17         1.16         2.60         1.14         1.17	366.59         1.65         26.26         9279.68         65.89         0.008         196.07         3.18         1.26         419.34         0.057         0.05         3.34         0.69           426.68         1.65         28.97         9857.43         75.30         0.007         227.23         4.52         1.33         413.49         0.084         0.04         3.74         1.02           485.78         2.20         36.90         9862.68         88.16         0.013         255.63         5.16         1.25         506.38         0.114         0.07         4.32         1.03           49.96         2.63         37.46         9061.22         80.95         0.042         2223.37         3.72         1.48         449.46         0.071         4.90         0.71	10.84				
426 68 1.85 2.89 79357.43 75.30 0.007 237.23 4.52 1.33 4.034 0.044 0.04 3.74 1.02 11.25 113.33 98.10 190.25 2442.10 1006.25 486375.23 45.157 14.84 48.45 0.044 0.044 0.047 14.37 14.34 17.02 11.25 113.02 26.04 176.12 17.30 26.04 176.12 17.30 26.04 176.12 17.30 26.04 176.12 17.30 26.04 176.12 17.30 26.04 176.12 17.30 17.04 17.02 17.04 17.02 17.04 17.02 17.04 17.02 17.04 17	42668 1.85 28.97 9357.43 75.30 0.007 227.23 4.52 1.33 413.49 0.084 0.04 3.74 1.02 485.78 2.20 36.90 9962.08 89.16 0.013 255.63 5.16 1.25 5.06.38 0.114 0.07 4.32 1.03 43.06 2.53 37.46 90.012 80.95 0.042 223.37 3.72 1.48 448.45 0.333 0.08 4.90 0.71	10.39				
485.76 2.0 36.90 965.26 8816 0.013 256.63 5.16 1.25 506.38 0.114 0.07 4.22 1.03 14.94 176.12 113.02 256.04 3045.96 1176.13 424165.2 8.71 43.04 10.04 0.07 1.05 10.04 1.05 1.05 1.05 1.05 1.05 1.05 1.05 1.05	485.76 2.20 36.90 9562.68 8816 0.013 255.63 5.16 1.25 5.05.38 0.114 0.07 4.32 1.03 4.36 6.25 2.34 5.061.22 8.05 0.042 2.23.37 3.72 1.48 448.45 0.333 0.08 4.69 0.71	11.25				
439 6 2 6 3 7.46 9061 2 8 0.042 223.7 3.72 1.48 448.45 0.333 0.08 4.60 0.71 13.73 136.33 100.71 176 65 2727.89 1034.25 485209.23 54.31 104.30 1.09 1.09 1.09 1.09 1.09 1.09 1.09 1.0	439.66 2.63 37.46 9061.22 80.95 0.042 223.37 3.72 1.48 448.45 0.333 0.08 4.60 0.71	14.94				
404.30 1.89 31.08 967.76 74.24 0.016 223.13 3.74 1.50 386.55 0.0771 0.10 362 0.78 12.07 126.59 98.09 211.21 2579.42 1049.89 495119.32 44.865 32.22 1.63 2.28 1.83 1.84 1.85 1.85 1.85 1.85 1.85 1.85 1.85 1.85	0F 0 00 0 150 0 15 00 00 1 1 1 1 1 1 1 1 1	13.73				•
322.92 1.63 2.268 8960.77 55.20 0.007 184.44 2.72 0.84 407.48 0.109 0.05 2.96 0.44 9.24 83.81 75.95 133.66 1931.41 785.71 486737.20 6.301 476.43 2.25 1.25 34.98 8960.77 55.20 0.007 247.67 4.70 1.26 467.38 0.139 0.05 14.08 161.78 103.8 103.8	404.30 1.08 31.00 307.3.70 74.24 0.010 2.23.13 3.74 1.30 300.33 0.071 0.10 3.02 0.70	12.07				
476.43 2.12 34.96 9448.96 86.00 0.007 247.67 4.70 1.26 467.38 0.126 0.07 3.90 0.95 14.08 161.78 109.78 2954.26 1139.01 494512.58 <-2.507 1345.29 1.28 42.91 0.289 0.08 3.50 0.61 9.86 91.44 82.95 153.97 2098.74 873.62 496151.89 <-2.482 40.154 1.28 42.90 0.79 0.08 3.7 0.80 11.38 113.46 94.22 191.58 2451.42 1006.37 485360.79 123.99 42.29 15.59 0.08 3.7 0.80 11.38 113.46 94.22 191.58 2451.42 1006.37 485360.79 123.99 123.99 42.29 12.29 12.29 12.29 0.22 4.24 0.25 0.22 3.42 0.39 0.09 14.85 12.29 12.29 12.29 12.39 13.27 12.29 12.29 12.29 12.39 13.27 12.29 12.29 12.39 13.29	322.92 1.63 22.68 8960.77 55.20 0.007 184.44 2.72 0.84 407.48 0.109 0.05 2.96 0.44	9.24			•	
345.52 1.93 25.15 9262.98 62.83 0.060 196.52 2.92 1.55 429.12 0.289 0.08 3.50 0.61 9.86 91.44 82.95 153.97 2098.74 873.62 486151.89 <-2.482 40.154 1.77 28.41 9344.92 71.30 0.037 217.25 3.97 1.28 432.90 0.786 0.08 3.71 0.80 11.38 113.46 94.22 191.58 2451.42 1006.37 48530.79 123.99 44.29 1.88 24.14 8825.89 0.036 0.079 180.34 2.67 0.96 335.77 0.159 0.06 2.73 0.62 9.69 77.07 78.72 126.42 1994.52 82.40 7 422.43.89 334.79 1.28 1.38 1.38 476.89 0.109 0.06 4.40 1.00 1.465 1931 115.41 23.99 137.23 1181.92 44.257.70 46.07 1.00 0.06 4.40 1.00 1.465 1931 115.41 23.99 137.23 1181.92 44.257.70 6.077 10.00 4.78 1.38 476.89 0.109 0.06 4.40 1.00 1.465 1931 115.41 23.99 137.23 1181.92 44.257.70 6.077 1	476.43 2.12 34.96 9448.96 86.00 0.007 247.67 4.70 1.26 467.38 0.126 0.07 3.90 0.95	14.08	•		•	
401.54 1.77 2841 9344.92 71.30 0.037 217.25 3.97 1.28 432.90 0.736 0.08 3.71 0.80 11.38 113.46 94.22 191.58 2451.42 1006.37 485306.79 122.39 344.29 1.88 24.14 9825.59 6.036 0.079 180.34 2.07 440.26 0.224 0.22 3.42 0.39 8.06 77.07 78.72 126.42 1994.52 824.07 48247.39 3347.96 1.24 2.308 9.08 77.07 78.72 126.42 1994.52 824.07 48247.39 3347.96 1.75 1.75 1.75 1.75 1.75 1.75 1.75 1.75	345.52 1.33 25.15 9262.98 62.83 0.060 196.52 2.92 1.55 429.12 0.289 0.08 3.50 0.61	9.86				
344.29 1.68 24.14 8825.98 60.36 0.079 180.34 2.67 0.96 335.77 0.159 0.06 2.73 0.62 9.69 77.07 78.72 126.42 1994.52 824.07 482443.89 3347.96 1 286.38 1.64 23.08 9078.83 48.32 0.258 152.14 1.53 2.07 462.60 0.224 0.22 3.42 0.39 8.06 74.86 63.94 120.77 1615.42 676.19 487039.62 11.54 511.00 2.31 37.65 9385.51 90.58 0.011 270.69 4.78 1.38 476.88 0.109 0.06 4.40 1.00 14.65 189.11 115.41 239.91 3127.23 1181.92 484257.40 <6.077 1	401.54 1.77 28.41 9344.92 71.30 0.037 217.25 3.97 1.28 432.90 0.736 0.08 3.71 0.80 1	11.38		 _		_
288.38 1.64 23.08 9078.83 48.32 0.258 152.14 1.53 2.07 462.60 0.224 0.22 3.42 0.39 8.06 74.86 63.94 120.77 1615.42 676.19 487039.62 11.54 511.00 2.31 37.65 9385.51 90.58 0.011 270.69 4.78 1.38 476.88 0.109 0.06 4.40 1.00 14.65 169.11 115.41 239.91 3127.23 1181.92 484257.40 <6.077 1	344.29 1.68 24.14 8825.98 60.36 0.079 180.94 2.67 0.96 335.77 0.159 0.06 2.73 0.62	69.6				
511.00 2.31 37.65 9385.51 90.58 0.011 270.69 4.78 1.38 476.68 0.109 0.06 4.40 1.00 14.65 169.11 115.41 239.91 3127.23 1181.92 484257.40	268.38 1.64 23.08 9078.83 48.32 0.258 152.14 1.53 2.07 462.60 0.224 0.22 3.42 0.39	8.06		42	•	
	511.00 2.31 37.65 9385.51 90.58 0.011 270.69 4.78 1.38 476.68 0.109 0.06 4.40 1.00	14.65		. 23	•	<6.077 10

Appendix C: Eastern Sunda arc zircon trace element chemistry

Analysis ID	8	۵	ù	Ē	В	生	운	Ľ	r.	<del>Q</del>	ρN	۵	Pb	Į.	WS	Ta	Tb	T T		>	χp	Zr	Fe	F
SLG-01 zirc5	12.61	158.16	301.36	7.31	49.48	8754.62	58.95		155.20	1.69	11.70	539.40	0.066	0.98	١.		13.99 61	61.42 68.53	53 111.06	1922.84	34 712.34	486	5.24	7.01
SLG-01_zirc6	18.88	174.02	407.19	<del>1</del> 95.	29.19	9476.96	73.24		224.97	4.17	1.20	442.16	0.072			0.85 11					_		<2.628	9.15
SLG-01_zirc7	26.90	226.61	512.75	2.49	40.43	9524.75	94.75		263.80	5.17	1.77	487.60	0.116	90.0	4.20 1			176.27 118.27		90 3232.42		483975.10	<2.616	9.70
SLG-01_zirc8	14.41	145.07	347.36	1.82	26.33	8901.52	62.67		190.11	2.55	1.15	391.12	0.046	90.0	3.16 0		10.24 83		134.88			•	<2.611	7.03
SLG-01_zirc9	18.79	170.72	397.59	2.32	33.14	9332.78	71.76		216.90	3.00	<del>1</del> .92	563.13	0.215										35.59	10.22
SLG-02_zirc1	39.80	418.60	708.57	5.20	108.28	7965.02	147.32		241.37	1.77	8.06	610.98	0.923					_					63.97	31.00
SLG-02_zirc10	30.96	242.54	396.66	3.11	65.05	8823.24	85.30		131.78	3.03	7.27	360.56	0.510		11.48 0		-			•	35 693.52	•	135.04	39.68
SLG-02_zirc11	10.30	122.45	249.22	1.57	26.38	8053.78	48.52		115.40	9.	1.49	366.12	0.057			0.27 8							<6.290	10.03
SLG-02_zirc2	10.74	118.14	265.00	4.	26.21	7721.64	48.77		136.92	1.02	1.95	247.94	0.165				8.64 195					•	<6.149	15.33
SLG-02_zirc3	23.36	154.38	264.64	1.83	40.39	10409.57	55.53		89.89	2.17	3.62	363.11	1.819	0.22			•			_		•	<3.196	9.80
SLG-02_zirc4	3.44	28.32	72.55	0.55	4.93	7181.60	11.72		24.86	0.64	0.61	130.96	0.076									•	30.45	10.33
SLG-02_zirc5	408.60	396.29	548.45	32.90	177.64	11867.70	121.68		159.81	28.38	117.11	422.40	39.926	-				_				•	721.82	86.54
SLG-02_zirc6	10.06	145.50	274.33	2.47	84.90	8061.26	55.28		112.98	0.69	2.74	242.85	0.172				11.57 191		45 127.58		38 532.86	•	<6.590	14.69
SLG-02_zirc7	38.62	338.51	639.79	3.68	78.65	8201.31	129.09		253.75	2.35	4.45	758.48	0.396					_					<8.893	18.71
SLG-02_zirc8	25.83	219.86	455.99	2.22	42.55	7909.68	88.40		180.82	1.91	1.78	502.09	0.260			0.43 16							<6.178	21.71
SLG-02_zirc9	15.40	218.72	306.96	3.53	72.17	8654.29	70.69		96.06	1.71	9.57	340.46	4.133									•	<2.609	21.04
SPF-03_zirc1	108.87	374.79	693.88	0.67	96.36	10420.18	136.62		295.75	2.94	10.22	913.72	12.318										1621.44	10.08
SPF-03_zirc10	121.50	272.94	495.80	0.61	72.95	11194.85	98.61		217.82	2.31	7.85	570.19	0.701									•	336.39	12.78
SPF-03_zirc11	153.93	474.15	852.47	0.81	123.18	10510.70	173.21		329.36	3.67	11.65	855.61	3.527		21.16 1						54 1664.32		918.48	8.71
SPF-03_zirc12	295.81	615.98	1050.99	1.14	179.40	10768.84	212.78		456.00	5.91	24.25	1207.89	2.959			1.56 52			33 757.55			•	356.67	14.53
SPF-03_zirc13	228.21	435.16	774.97	0.81	115.86	10816.21	156.58		336.82	4.76	12.96	902.88	0.873									1	303.95	13.00
SPF-03_zirc14	170.97	409.14	750.04	0.68	103.57	10004.24	151.17		328.68	4.87	10.19	00.006	7.468		17.83				25 653.06		32 1629.75		616.13	14.43
SPF-03_zirc15	35.74	455.80	795.91	2.26	112.23	10389.11	165.14		280.53	2.92	5.42	938.82	0.213			.,		_					63.54	12.70
SPF-03_zirc16	56.18	149.22	302.53	0.31	36.67	11407.22	58.47		146.20	1.45	4.37	410.62	0.422				_				34 712.82	•	105.60	7.17
SPF-03_zirc17	110.76	311.81	579.50	0.53	78.18	11043.51	115.06		254.33	3.19	6.92	677.20	0.338										96.44	10.47
SPF-03_zirc18	124.62	381.20	756.55	0.83	95.46	12856.98	143.25		319.05	4.66	10.17	1257.58	15.809		15.63 1							Ì	1407.35	23.85
SPF-03_zirc19	126.30	348.81	637.41	0.72	91.93	13647.31	126.91		260.69	2.71	9.27	821.10	3.170	0.57 1				_				•	216.53	11.08
SPF-03_zirc2	63.67	152.86	431.72	0.46	30.51	13207.67	69.14		224.98	2.45	13.93	944.89	5.464			1.89 10	10.23 2395.09		59 6093.24			•	658.73	36.80
SPF-03_zirc3	86.15	233.95	450.29	0.32	52.33	11725.32	86.35		203.54	2.86	3.78	626.14	4.131				_					•	557.77	11.31
SPF-03_zirc4	78.09	241.72	455.50	0.30	60.27	12207.15	88.55		189.40	<del>2</del> .	4.25	548.77	0.152				18.83 729					•	<6.433	9.55
SPF-03_zirc5	156.98	416.73	751.11	0.53	108.18	9134.16	151.64		297.71	5.48	8.57	845.18	9.187										663.95	13.59
SPF-03_zirc6	109.47	346.23	657.05	0.61	70.83	13537.27	126.07		244.71	3.76	5.27	904.88	6.778				.,					•	448.79	15.50
SPF-03_zirc7	136.41	370.97	645.28	0.81	99.84	10924.46	131.46		271.82	2.77	11.80	744.92	0.398		18.69 0			851.43 135.42	42 599.65			-	146.81	10.85
SPF-03_zirc8	135.53	341.46	631.43	0.65	89.56	10906.11	125.21		300.47	2.96	9.63	690.04	0.454									•	22.86	10.36
SPF-03_zirc9	119.16	309.24	575.76	0.55	80.39	9733.33	112.29		249.80	2.53	8.31	644.34	0.569	0.58	15.25 1	1.15 25	25.28 804	804.85 121.64					12.56	9.65
SPF-06_zirc1	99.92	577.39	1062.59	3.27	136.05	10415.74	215.96		397.09	6.65	5.75	1396.30	1.905	_								475023.78	214.09	16.36
SPF-06_ZIRC10	11.82	00.745	640.04	8 6	74.00	9712.00 400FF 04	130.03	110.0	253.93	52.1	2.07	704.75	0.016	0.13				81.35 139.90		64 4201.77	7 1293.30		0.13	10.13
SPF-06_2IIC11	20.12	206 90	240.34 66.60	26.1	S 5	10.233.91	110.01		30.30	<u> </u>	6.9	742.24	0.037			0.33		220 00 116 03			•		110.64	14.21
SPF-06 zirc13	46.04	566.19	1014.28	3.72	128.24	9528.44	210.57		353.17	2.95	6.60	1638.67	0.523	_			43.70 304		382.56				83.77	13.71
SPF-06 zirc14	30.79	364.24	657.38	2.48	77.74	10099.53	135.11		245.25	2.12	3.81	826.52	0.416									•	249.22	9.91
SPF-06_zirc15	76.56	580.95	1018.14	3.57	141.79	11138.58	212.15		358.23	3.56	10.71	1254.85	15.196		22.81		46.55 761				37 1906.68	•	2207.97	13.55
SPF-06_zirc16	78.32	510.26	874.18	2.70	124.41	11287.52	187.85	1.250	304.88	4.04	9.95	1248.47	12.060	0.75 1			~	.56 174.15	•	33 5886.09		474891.85	934.45	13.33
SPF-06_zirc17	45.50	397.14	785.54	2.03	77.41	9862.29	153.74	0.014	286.54	4.14	3.03	1010.01	0.077	0.11		•					50 1402.46	•	9.79	14.45
SPF-06_zirc18	41.09	250.48	521.35	0.94	47.62	16899.42	98.01	0.106	233.51	3.01	2.11	846.50	1.645	0.14			17.97 1016.92	_				•	274.39	8.09
SPF-06_zirc19	20.19	207.31	401.59	1.48	48.18	10185.75	78.49	0.671	173.48	1.27	2.54	528.93	5.122					_				1	3804.09	8.64
SPF-06_zirc2	109.70	979.11	1686.73	90.9	234.90	9546.85	346.20	_	573.66	4.30	14.63	1550.88	1.351	(-)						~	•	•	267.96	8.90
SPF-06_zirc3	50.75	542.16	990.34	2.78	124.43	10103.85	201.76		359.01	2.43	6.74	1033.55	4.842			•		_		01	~	1	1200.03	10.57
SPF-06_zirc4	10.72	123.45	273.22	0.53	22.93	10162.20	50.72		136.97	1.02	0.73	757.55	0.030									•	3.52	6.05
SPF-06_zirc5	85.47	626.95	1066.51	3.66	151.52	10654.39	226.09	0.142	361.79	4.88	10.15	1170.62	2.923	0.51 2	23.24 1	1.03 50	50.56 801	801.88 215.57	57 634.40	40 7198.62	32 1968.16	474667.05	475.00	14.90
		*All el	*All elements are in ppm.	ts are	in pp	m.																		

Appendix C: Eastern Sunda arc zircon trace element chemistry

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Analysis ID	3	ρ	Ĭ	na	5	Ė	9	La	3	QN	DN		a	È	Eo									9_	=
SPF-06_z6	75.87	745.61	1273.97	6.19	186.16	9366.75	268.74	0.047	440.42	4.33	10.06	1394.7	0.168	0.52	26.41								474159.3	22.1	9.5
SPF-06_z7	26.57	183.29	365.15	0.86	34.76	13061.55	70.57	0.226	150.94	2.61	4.	9.909	1.321	0.12	4.70							4		62.0	10.0
SPF-06_z8	15.19	319.58	601.59	1.94	68.43	9323.38	121.90	0.014	216.65	1.12	5.64	576.4	0.128	0.16	96.8									23.7	8.5
SPF-06_z9	89.65	717.32	1235.65	4.37	174.26	10084.96	265.15	0.216	414.10	4.28	9.48	1334.5	1.918	0.51	26.96										17.1
UG012184 z1	21.68	180.73	333.03	2.44	37.12	8750.36	68.95	0.005	146.76	1.87	1.83	244.1	0.053	0.07	4.31										11.7
UG012184 z10	16.67	219.29	346.94	4.88	63.13	8695.06	75.56	0.027	140.93	1.16	4.83	229.8	0.144	0.26	11.20										15.4
UG012184 z11	9.31	70.56	143.76	1.24	16.53	9646.12	28.27	0.091	74.89	1.15	1.28	117.8	15.179	0.08	2.79									_	24.7
UG012184 z12	3.19	107.13	250.85	0.47	16.47	10510.83	45.65	0.067	137.02	0.67	0.55	611.8	0.042	0.05	<del>2</del> .								485873.5	74.4	0.0
UG012184 z13	8.51	83.45	156.76	1.46	20.91	8855.46	32.26	0.004	75.28	0.87	1.02	214.2	0.033	90.0	3.17									.563	6.4
UG012184 z14	7.30	42.96	93.98	0.68	8.39	9583.30	17.92	0.004	50.42	0.81	0.48	124.3	0.024	0.02	1.21									.531	2.0
UG012184 z15	23.77	166.41	332.85	2.07	32.62	8627.91	66.37	0.009	152.70	2.27	1.21	228.3	0.052	90.0	3.85									3.1	11.3
UG012184 z16	36.16	215.22	418.57	2.57	41.15	9190.63	84.41	0.004	178.71	2.94	1.53	240.9	0.036	0.07	4.90									.500	11.0
UG012184 z17	17.03	128.61	259.96	1.58	25.99	8831.72	50.21	0.010	122.21	1.77	1.37	261.3	0.139	0.07	3.16									.534	15.6
UG012184 z18	4.08	42.91	81.71	0.69	9.87	9518.43	16.11	0.004	43.12	0.39	0.62	134.2	<0.009	0.04	1.65									.499	4.3
UG012184 z19	15.45	126.37	238.97	2.03	29.88	8666.52	47.91	0.005	112.64	1.15	19.	246.3	0.012	90.0	3.94									.484	6.7
UG012184 z2	9.34	113.63	191.83	2.57	32.12	9336.93	40.33	0.055	85.12	0.71	2.59	133.8	0.094	0.16	5.65									9.9	5.5
UG012184 z20	7.40	76.07	155.20	1.38	18.02	8957.36	30.01	0.004	78.02	98.0	1.36	134.0	600.0	90.0	2.77									3.9	5.9
UG012184 z21	10.39	91.90	175.71	1.72	21.97	8375.79	35.53	0.079	88.92	98.0	1.23	280.1	0.097	0.08	3.20									9.7	6.5
UG012184 z22	5.02	42.52	96.06	0.72	9.54	9157.48	17.09	0.004	50.27	0.70	0.53	114.7	0.275	0.03	1.18									4.8	4.6
UG012184 z23	6.85	49.53	105.04	0.78	10.53	9216.66	20.26	0.004	56.86	0.73	0.68	139.2	<0.009	0.02	1.45									3.0	5.7
UG012184 z24	17.91	117.10	253.06	1.57	22.24	9404.90	48.51	0.004	126.84	2.18	1.03	175.7	1.617	0.05	2.70									.559	8.3
UG012184 z25	4.41	32.70	69.02	0.60	7.76	9263.88	13.15	0.004	41.23	0.56	0.41	81.4	<0.009	0.01	1.07									.576	5.1
UG012184 z26	13.72	234.84	456.95	1.39	46.56	11033.65	92.11	0.004	205.12	1.97	1.15	647.8	0.370	0.05	4.90									.582	4.5
UG012184 z27	7.04	72.86	137.26	1.42	17.90	9210.32	27.62	0.004	06.99	29.0	1.22	143.7	0.039	90.0	2.80									.527	5.0
UG012184 z28	97.05	86.74	180.49	3.43	26.92	8068.65	35.11	33.794	92.41	1.07	62.60	15633.3	0.057	12.34	14.76									26.9	7.5
UG012184 z29	13.33	109.88	220.22	1.35	20.47	8822.93	43.81	0.005	86.66	4.	1.01	176.4	0.010	0.04	2.10									.503	9.6
UG012184 z3	10.67	88.85	168.34	1.86	22.65	9683.33	35.01	0.011	78.00	0.88	0.97	163.6	<0.036	0.07	3.79									.314	6.7
UG012184 z30	5.39	51.33	103.36	0.81	10.90	9120.61	19.88	0.026	55.04	0.57	0.88	178.2	0.028	0.04	1.89									3.0	5.1
UG012184 z31	6.64	71.05	135.80	1.22	17.56	8843.32	26.87	0.017	68.05	0.79	1.30	172.5	0.051	0.08	2.59									19.5	8.2
UG012184 z32	6.20	48.49	102.12	0.70	10.41	9541.70	19.11	0.024	57.09	0.76	0.45	136.8	0.021	0.03	1.45									.511	4.5
UG012184 z33	7.74	47.04	110.33	0.75	10.35	10003.78	19.95	0.004	62.09	0.92	0.46	115.0	<0.009	0.02	1.47									.516	4.1
UG012184 z34	3.11	19.09	39.39	0.31	4.16	9747.01	7.49	0.004	21.86	0.40	0.09	8.92	<0.009	0.01	0.40									5.6	3.4
UG012184 z35	9.54	63.23	130.85	0.89	12.76	9234.48	25.22	0.011	65.49	0.94	0.71	173.4	0.151	0.03	2.16									4.2	11.3
UG012184 z36	4.99	61.61	112.22	1.26	16.84	9187.15	22.41	0.004	54.20	0.52	1.25	112.7	0.091	0.05	2.85									.495	5.7
UG012184 z37	12.41	71.89	140.33	1.18	16.34	8938.26	27.90	0.347	67.88	1.13	1.39	205.4	0.202	0.16	2.33			54.5						25.6	8.2
UG012184 z38	5.23	40.87	90.48	0.66	8.77	8968.94	16.67	0.004	51.73	0.59	0.44	121.4	<0.009	0.02	1.33									.495	5.8
UG012184 z39	11.82	146.68	237.14	3.10	40.91	8974.29	50.94	0.008	101.44	0.83	2.68	204.0	0.367	0.15	6.77									2.5	5.0
UG012184 z4	5.81	63.43	119.11	1.25	16.71	9487.54	23.49	0.007	60.91	0.61	1.14	116.8	<0.009	90.0	2.86									.526	4.1
UG012184 z40	8.70	64.85	137.58	0.98	13.33	9054.96	26.43	0.005	69.55	1.21	0.63	144.2	3.810	0.03	1.78									9.7	10.2
UG012184 z41	4.78	37.18	74.94	0.58	8.35	9021.02	14.57	0.020	41.13	0.63	0.31	111.7	0.009	0.02	1.05									23.2	6.5
UG012184 z42	6.85	52.44	103.87	0.78	11.67	9337.14	20.00	0.005	54.93	0.68	0.79	140.5	0.150	0.03	1.82									2.7	5.3
UG012184 z5	20.24	137.73	227.84	2.84	40.60	9170.21	48.99	0.043	100.08	1.41	3.17	234.3	0.035	0.16	7.09									66.4	7.5
UG012184 z6	11.09	91.61	199.89	1.14	16.93	8686.75	37.56	0.004	106.42	<del>7</del> .	0.73	169.2	2.556	0.04	2.35									7.4	10.0
UG012184 z7	6.03	39.03	82.38	0.58	8.49	9743.03	15.64	0.046	46.16	09.0	0.52	133.2	0.646	0.03	1.22									3.8	5.9
UG012184 z8	6.14	55.99	126.38	0.81	11.09	8803.04	23.02	0.004	70.32	0.80	0.64	190.3	0.039	0.03	1.74									.845	8.0
UG012184 z9	12.81	131.55	218.96	3.14	37.66	9106.55	46.36	0.004	95.91	0.95	2.89	170.6	<0.011	0.14	6.80									.859	5.5
UG012186 z1	9.16	36.36	71.36	0.76	8.54	10582.81	13.97	0.025	37.45	0.59	0.67	118.3	1.088	0.04	1.47									39.3	4.5
UG012186 z10	8.58	31.49	67.11	0.49	6.85	11282.18	12.38	0.004	38.36	0.57	0.32	93.2	0.053	0.02	1.1	0.15	2.47		15.9	58.4	437.3	162.4 488	488188.0 <	<2.462	3.4
UG012186 z11	19.93	117.25	207.15	2.39	31.83	10541.99	43.24	0.005	99.43	1.33	2.26	129.3	0.023	0.11	5.55		9.84	75.5						.468	5.4
UG012186 z12	10.25	57.17	108.32	0.80	12.95	11209.05	21.09	0.061	57.94	0.93	99.0	115.3	21.248	0.04	1.96	0.24	4.46	41.8						25.7	6.7
		*All el	*All elements are in ppm.	sare	in ppr	'n.																			
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Appendix C: Eastern Sunda arc zircon trace element chemistry

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Analysis ID	Ce	Dy	Er	Eu	РĐ	Hf	위	La	Γn	qN	PN			Pr Si	Sm Ta					٨	Υb	Zr	Fe	F
UG012186 z13	4.48	29.62	58.23	0.54	8.02	10355.06	11.51	0.173	29.96	0.61	0.82		2							377.51	135.99	487876.64	265.06	43.15
UG012186 z14	5.85	39.91	80.10	99.0	8.92	10267.08	15.69	0.004	46.89	0.64		171.41								538.41	201.04	488662.06	<2.510	3.60
UG012186 z15	15.16	71.47	148.45	1.05	17.01	10295.72	28.25	0.029	80.99	1.41										974.90	358.25	487769.43	32.73	6.11
UG012186 z16	14.29	87.26	175.47	1.24	17.87	10123.88	34.39	0.011	89.15	1.16										1135.42	393.27	487488.11	38.08	11.62
UG012186 z17	7.73	75.71	138.30	1.37	19.89	10481.58	28.24	0.007	65.41	0.79										927.17	301.80	487806.96	10.23	4.67
UG012186 z18	17.67	45.82	96.38	0.92	10.45	10206.28	17.97	3.629	51.65	0.75										617.80	225.37	485417.41	28.12	2.06
UG012186 z19	6.55	37.54	80.49	0.54	7.61	10176.80	14.38	0.004	43.98	0.67										510.03	195.32	488810.15	2.90	5.01
UG012186 z2	3.89	12.17	32.24	0.17	2.92	12433.42	5.36	0.004	38.10	0.37										214.90	117.92	487681.78	<2.581	2.28
UG012186 z20	9.48	42.73	87.18	0.71	9.43	10621.46	16.10	0.004	50.11	0.84										567.48	215.28	488361.85	7.37	3.30
UG012186 z21	9.33	52.58	105.28	0.82	10.92	10074.01	20.09	600.0	55.59	0.83										691.15	243.97	488540.71	3.93	4.29
UG012186 z3	18.38	176.93	171.65	38.65	88.25	11339.64	46.11	1.210	71.64	1.04				•						1505.71	310.83	485410.01	18.80	5.20
UG012186 z4	10.22	98.70	175.88	2.15	27.92	9307.03	35.69	900.0	82.29	0.78										1178.29	373.93	488276.01	<2.410	4.59
UG012186 z5	09.9	46.23	90.87	92.0	11.81	10344.28	17.23	0.004	48.95	0.64										594.90	213.28	488521.69	9.76	4.93
UG012186 z6	27.54	180.59	337.29	2.39	40.72	8823.81	62.99	0.004	149.56	1.98										2227.53	696.62	486683.72	<2.423	9.51
UG012186 z7	5.28	41.94	89.73	0.77	9.30	9087.46	16.62	0.012	53.93	0.58										563.23	227.31	489355.03	7.25	4.81
UG012186 z8	9.60	47.38	98.59	0.72	10.06	10623.23	18.39	0.004	97.76	0.85										641.50	245.72	488285.08	<2.446	3.53
UG012186 z9	37.84	206.90	359.44	3.20	51.59	9912.62	75.14	0.007	158.79	2.69										2482.97	742.23	485697.63	4.34	8.72
UG012190 z1	96.3	62.11	118.39	1.33	15.17	9120.78	23.57	0.013	59.34	0.61										779.72	257.78	489188.75	9.45	5.43
UG012190 z10	7.24	73.55	146.41	1.35	17.45	9055.16	28.59	0.029	76.41	1.00										943.95	335.30	488496.14	223.59	24.18
UG012190 z11	7.07	61.96	127.50	06.0	12.81	8602.10	24.13	0.004	66.44	0.85										807.84	293.87	489459.35	<2.533	5.72
UG012190 z12	7.07	46.58	101.44	29.0	10.03	9994.25	18.89	0.007	60.49	0.79										641.50	265.59	488718.43	67.16	5.20
UG012190 z13	4.84	36.80	75.69	0.58	7.81	9597.94	14.49	0.004	43.14	0.53										490.80	187.06	489345.96	<2.520	4.85
UG012190 z14	6.83	77.65	134.13	1.50	21.31	9930.94	28.24	0.018	63.40	0.52										907.54	293.41	488346.24	5.46	4.55
UG012190 z15	4.04	32.81	71.35	0.59	7.34	8891.13	13.01	0.004	41.71	0.58										450.87	176.99	489968.46	<2.538	4.59
UG012190 z16	8.70	75.97	162.08	1.03	13.97	8741.27	30.98	0.004	85.53	1.18										1040.88	376.11	488969.83	<2.529	7.25
UG012190 z17	6.79	69.18	131.91	1.19	16.05	9275.83	26.34	0.004	63.11	0.71										872.45	289.41	488933.94	<2.511	5.17
UG012190 z18	8.00	66.45	143.88	0.92	13.49	8978.94	27.00	0.004	76.56	0.88										899.93	332.10	488977.75	<2.518	5.34
UG012190 z19	4.20	49.58	83.87	1.10	12.75	9397.47	17.35	0.004	39.72	0.38										266.96	183.20	489485.70	<2.497	4.58
UG012190 z2	5.13	45.16	98.02	0.54	8.98	9260.34	17.66	0.043	56.27	0.85										616.66	237.05	489180.03	22.73	16.98
UG012190 z20	3.77	32.26	69.64	0.52	6.16	9319.49	12.87	0.004	40.27	0.44										434.15	173.48	489535.99	<2.509	4.69
UG012190 z21	9.15	64.52	143.45	1.06	12.63	9057.28	26.88	0.009	77.89	1.05										916.44	342.37	488973.37	<2.557	6.10
UG012190 z22	18.97	133.44	262.01	1.7	26.15	8853.73	51.53	0.004	119.94	2.00				0.06				2 58.03		1714.26	566.44	487664.74	7.21	9.35
06012190223	0.03	92.00	174.53		20.10	9023.33	6.4.0	0.004	93.80	90.0										1151.55	391.10	4000174.72	\$2.33 <i>/</i>	9.0
116012190 224	9 6	42.47	94.70	90.0	27.3	9131.00	17.60	1000	7 .00	20.00										603.12	225.60	466900.73	72.302	. r
11G012190 229	11.22	96.30	198.06	1 17	19.05	8648 93	38.33	0.020	100 98	1 40										1300 72	453.43	488585.37	<2 487	5 2
UG012190 z27	7.40	70.46	157.64	1.09	14.77	8331.10	29.69	0.004	85.37	1.06										988.62	375.24	489277.42	<2.490	06.9
UG012190 z28	7.92	58.82	131.88	0.82	12.24	9166.45	24.29	0.004	70.29	0.92										831.92	314.09	489043.11	<2.536	6.54
UG012190 z29	12.18	137.30	236.79	2.88	38.02	8984.99	49.50	0.013	104.25	0.83										1566.97	489.59	487930.19	<2.597	4.94
UG012190 z3	9.80	75.20	155.11	1.09	14.58	8999.52	30.06	0.004	79.40	1.18										1004.91	354.66	488901.12	<2.479	6.59
UG012190 z30	9.01	53.04	134.29	0.93	10.61	9407.72	23.54	0.004	85.62	1.10										816.50	353.74	488871.71	<2.508	5.50
UG012190 z31	4.79	38.89	85.92	0.39	7.52	10426.30	15.73	0.007	46.04	2.44										557.36	208.98	488326.35	3.84	4.95
UG012190 z32	8.60	62.43	137.80	0.87	12.05	9360.37	25.76	0.004	74.79	1.22										879.26	328.55	488672.97	15.13	6.56
UG012190 z4	5.62	45.53	96.70	99.0	9.13	9215.77	17.98	0.004	55.62	0.66										620.18	237.34	489359.19	<2.541	5.47
UG012190 z5	v. :	41.73	96.21	0.59	8.25	9425.62	17.27	0.004	26.60	0.75										607.62	242.29	489270.76	<2.511	5.14
UG012190 z6	14.17	77.32	174.67	0.97	15.59	9669.01	32.16	0.004	93.16	1.50								•		1089.54	414.75	488188.16	<2.485	5.55
UG012190 z/	9.00	31.00	65.97	0.41	2.68	9767.36	12.40	0.004	37.41	0.54								7 15.74		416.86	162.60	489355.30	<2.523	21.7
UG012190 z8	6.38	23.66	54.25 126.62	0.34	5.12	10450.86	9.85	0.190	34.43	0.54	0.55	1/0.64	60.009		3.52 0.10	1.73	3 17.46		39.08	347.31	141.69 278.85	488813.32	<2.525	3.67
UG01219029	2 6	48.14	95 74	0.77	11.62	10403 44	19 19	0.019	51.87	0.53			0.000	0.00				1 22 92		616.87	224.52	488579.75	24.15	3. 4
0001213021	5	_	100.11	7.7.0	70.1	10400.44	<u>0</u>	0.00	5	-			t 500					•		5	40.4.77	40001 5.20		5
		*AII 6	elements are in ppm	its ar	e in p	om.																		

Appendix C: Eastern Sunda arc zircon trace element chemistry

	F	4.60	3.42	5.79	4.71	36.60	7.44	4.06	10.97	4.84	5.43	6.78	4.65	9.37	99.5	7.56	5.83	4.41	6.91	05.90	0.0 0.0	0.5	6.03	4.49	9 - 6	0.33	29.87	2 2	25. 4	12.70	8.16	13.43	5.69	4.06	4.65	4.16	3.66	4.15	7.92	3.41	2.96	7.11	4 6	6 15	7.73	4.37	3.63	
	Fe	247.47	<5.555	108.82	219.94	3.3.1	243.73	<5.449	16.92	12.69	<2.416	43.32	<2.388	20.91	9.31	<2.369	2.70	26.22	3.95	315.97	\$2.018	\$2.330	<2.361	299.92 0	196.29	70.22	49.80	<2.374	34.68	51.10	<2.359	<2.384	31.07	357.11	5.77	23.24	<2.352	<2.427	27.56	<2.361	71.53	46.584	22.303	<2.373	24.18	<2.388	<2.643	
	Zr	486712.19	488755.10	488599.88	488659.03	487744.30	488625.35	488851.13	488255.29	489359.17	489517.00	488639.64	489481.03	488677.14	489000.55	487650.69	488992.87	489413.71	488552.39	466595.30	489537.04	488923.70	489048.99	489319.35	486700.40	480410.03	489109.25	48812173	489107.25	487507.27	488727.27	486221.30	486766.44	489355.45	489541.25	482692.27	489051.24	488631.14	488912.32	487867.47	489185.86	489135.79	4097 13.40	489000 62	488163.57	489057.26	488875.18	
	γp	198.21	167.87	276.89	263.28	303.37	366.50	213.42	402.40	135.19	166.12	299.63	156.61	412.85	270.35	565.53	326.71	191.29	410.74	104.10	194.04	70.13	333.39	81.20	322.17	211 66	376.61	20.00	261.50	602.90	389.30	783.62	604.67	173.19	184.43	328.26	250.14	194.76	411.62	77.79	165.14	340.62	20 7 76	204.70	427.57	290.27	218.36	
	Y	514.60	444.13	898.40	880.71	985.41	1049.61	541.98	1193.55	354.36	465.93	874.48	414.50	1199.56	754.90	1733.14	836.30	508.80	1191.97	400.97	204.89	40.5	844.04	213.40	1028.32	74.2.07	10.57	934.29	799.54	1845.17	1041.51	2681.59	2124.06	451.96	481.44	991.92	581.21	554.51	1118.12	198.59	402.72	965.44	1110 46	827.41	1341 49	784.15	569.01	
,	Π	26.31	45.59	36.50	51.54	33.05	59.41	34.30	71.38	26.12	25.81	48.18	23.48	66.47	43.57	98.82	48.78	28.87	66.54	23.93	70.07	33.20	48.87	12.20	01.04	5.75	34.37 54.80	55.50	32.70	110.43	64.61	142.53	98.92	23.50	27.00	778.99	38.28	75.77	63.20	30.18	27.28	54.72	23.70	48.16	71.15	47.80	38.49	
	Tm	19.65	17.08	29.70	28.28	32.50	38.30	21.35	42.25	14.13	16.64	30.95	15.44	42.24	27.79	58.95	32.00	18.49	41.84	5 40	67.6	0.40	32.12	8.28	33.7	72.02	22.92	30.91	26.89	64.41	39.32	85.26	65.36	16.75	17.92	33.19	23.30	19.77	41.59	7.09	16.00	34.90	20.03	30.97	44.85	28.64	21.69	
	Th	12.07	15.77	25.13	37.24	26.49	33.66	13.60	45.24	10.45	12.93	29.47	9.66	33.67	22.95	63.10	20.34	13.09	35.37	50.5	14.28	27.1	17.98	17.4	28.21	10.00	25.52	35.13	19.10	70.50	29.50	130.73	94.95	8.78	12.98	10.02	13.49	42.20	27.89	11.26	9.17	27.19	5 . 6	20. IS	48.87	23.64	16.47	
	Tb	2.89	2.50	6.20	6.90	6.55	6.12	2.95	6.38	2.02	2.92	5.14	2.39	6.49	4.21	10.59	4.16	2.81	6.40	7.33	3.67	0.30	4.06	1.31	05.7	9.5	26.4 28.4 28.4	6.43	5.32	8.77	2.00	16.94	15.88	2.60	3.12	6.40	2.95	3.29	5.70	1.18	2.03	4.85	2.3	0.70	8.37	4.67	3.11	
	Та	0.11	0.18	60.0	0.11	0.07	0.25	0.13	0.16	0.10	0.10	0.18	0.10	0.18	0.13	0.25	0.17	0.12	0.22	0.0	21.0	0 . 0	0.20	0.04	0.10	9.70	0.10		- 0	0.35	0.19	0.33	0.15	0.10	0.14	0.74	0.16	0.17	0.21	0.08	0.09	0.17	0.03	9.0	0.10	0.10	0.14	
	Sm	3.29	0.94	3.91	4.23	3.06	2.73	1.41	2.02	0.85	1.56	1.93	1.02	2.18	1.47	3.99	1.46	1.23	2.49	3 5	5 6	0.29	1.85	0.47	3.80	54.0	5 F	4 00	27.7	2 88	204	5.35	8.42	0.88	1.30	2.61	1.08	1.31	2.34	0.49	0.58	1.65	5 6	2.97 1.88	3 75	1.85	1.03	
	Pr	1.29	0.01	0.07	0.14	0.11	0.02	0.01	0.03	0.01	0.03	90.0	0.02	0.04	0.02	0.02	0.02	0.01	40.0	20.0	0.03	0.00	0.02	0.0	5 5	5 5	2.0	5 0	0.09	0.08	0.03	0.10	0.20	0.02	0.02	0.0	0.01	0.02	0.04	0.01	0.01	0.01	3.0	0.0	0.03	0.03	0.02	
	Ьb	14.401	<0.026	0.951	6.584	6.434	0.620	<0.025	0.310	0.028	<0.008	0.337	<0.008	0.330	<0.008	0.014	<0.008	0.078	×0.008	5.0.0	0.802	0.014	0.225	/0L.0	\$0.008	60.0	0.372	0.100	0.023	0.555	0.014	0.175	0.242	4.657	×0.008	0.175	0.052	<0.00>	0.097	<0.008	4.238	0.032	00.00	000.0	0.009	<0.008	0.023	
	Ь	1121.78	91.36	120.60	159.12	271.42	183.13	123.92	212.98	135.40	118.09	246.95	116.91	205.37	203.30	216.97	138.93	181.84	184.27	120.47	120.81	56.39	131.25	46.76	119.09	20.02	707.75	78.05	111.68	299.07	142.87	264.19	199.53	138.38	115.09	99.90 146.56	82.71	108.61	142.32	54.57	101.59	198.30	26.00	156.28	258.83	226.62	150.36	
	PN	78.7	0.36	1.47	2.10	1.29	66.0	0.09	96.0	0.21	0.51	1.08	0.31	0.82	0.67	1.46	0.61	0.29	0.79	0.37	26.0	0.00	0.33	0.27	20.7	9 5	- 6 - 6	1 95	8 5	86.0	0.71	2.00	3.66	0.43	0.57	1.03	0.39	0.48	0.88	0.18	0.25	0.61	0.00	0.63	. 68	0.54	0.30	
	qN	0.65	0.54	0.54	0.81	0.72	1.51	0.71	1.37	0.55	0.52	0.72	0.50	1.20	0.72	1.63	1.02	0.56	£ 8	20.0	0.40	0.48	1.07	0.41	0.50	00.0	0.20	0.46	0.40	2.00	1.49	1.98	1.1	0.52	0.53	26.5 26.0 26.0 26.0 26.0 26.0 26.0 26.0 26.0	0.77	0.63	4.04	0.41	0.58	0.93	00.00	0.90	1.00	69.0	0.70	
	Γn	47.03	38.66	62.20	59.25	66.02	77.74	50.22	91.93	31.22	37.71	67.02	37.57	93.37	64.01	122.93	74.68	44.07	90.72	36.93	42.90	10.70	77.08	19.40	10.07	47.74	97.74	66.04	58.22	135.44	88.96	164.65	127.71	40.37	42.92	73.83	58.83	43.17	93.66	18.63	40.06	78.13	06.40	69.20	94.25	66.27	49.94	
	La	3.329	0.015	600.0	0.027	0.054	0.034	0.008	0.009	0.008	0.005	0.054	0.004	0.008	0.011	0.005	0.004	0.004	0.004	0.017	0.004	0.004	0.004	0.010	0.004		1.0.0	0.004	0.00	0.031	0.004	0.005	0.021	900.0	0.009	0.021	0.004	0.004	0.004	0.004	0.008	0.023	10.00	0.000	0.274	0.004	0.004	
•	Н	15.42	13.50	28.04	27.16	30.94	32.69	16.46	35.55	11.52	14.25	27.02	12.24	35.64	22.54	52.24	24.32	14.93	35.49	13.30	26.71	0.4.60	24.57	6.36	31.52	20.47	21.64	28.72	24.14	56.05	30.10	81.89	66.45	13.23	14.99	28.71	16.59	16.67	33.69	99.5	11.61	29.95	04.00	25.04	40.87	24.03	16.49	
	H	9923.74	10536.04	9561.48	9193.43	9738.89	8743.60	10110.07	9240.58	9805.69	9438.39	9294.75	9595.58	80.8898	9243.42	8910.02	9228.71	9260.81	8958.81	10089.51	9200.08	0.0990.08	9156.38	10441.87	9341.48	0200.00	9514.72	10388.23	9246 71	8544.13	9120.91	89.6028	9310.66	8994.80	9350.28	5407.20	9844.19	10381.98	8677.70	12354.29	9904.35	8635.32	9243.41	9211.26	8942.10	9041.83	9954.95	ند
	PS	8.92	6.54	19.60	24.03	7.32	15.34	8.57	16.31	6.42	9.14	14.33	6.52	17.11	11.53	29.44	11.89	8.56	47.64	‡ ;	0.70	0.70	11.80	40.2.5	24.3/	33.09 10.66	18.00	20.02	17 02	22.91	13.48	47.02	54.59	6.75	8.98	2 2 2	8.24	8.50	14.75	3.29	2.00	14.50	20.97	13.21	24.21	14.06	8.89	are in ppm.
	Eu	1.79				7.72			1.21			0.91								0.00				81.0			8.5								0.67	•		0.62				1.01				0.87		ıre ir
	Er					150.18															85.20			51.45					118.58						77.90							154.21						ents s
	Dy	37.48				85.30	•					•				•			88.18		40.10			16.08											37.73	•		42.80				70.43						All elements
	Ce	11.09	6.33	6.52	8.50	7.07	9.59									_			#: F					7.61								(4	_			22.01		9.16	9.45	4.13	3.99	8.37				7.11		*AI
	Analysis ID	_	UG012193 z11	UG012193 z12	UG012193 z13	UG012193 z14	UG012193 z16	UG012193 z17	UG012193 z18	UG012193 z19	UG012193 z2	UG012193 z20					UG012193 z7			UG012195 Z1	UG012195 Z10	0.5012195	UG012195 z12	UG012195 z13			UG012195 Z16	UG012195217	UG012195218		0	.,		UG012195 z23	UG012195 z24			UG012195 z4	UG012195 z5	UG012195 z6	UG012195 z7	UG012195 z8		_	UG012196 z11	UG012196 z12	UG012196 z13	

Appendix C: Eastern Sunda arc zircon trace element chemistry

							1												•					
Analysis ID	Ce	ρ	ù	Eu	P9	ŧ	우	La	3	qN	PN	_	Pb	Pr	Sm	Ta Tb	Į.	T.	,	<b>&gt;</b>	γp	Zr	Fe	ï
UG012196 z14	4.30	36.52	78.74	0.56	6.93	10291.22	14.65	0.008	45.10	0.71	0.26	144.02	1.627							485.90	202.52	488709.35	20.41	4.24
UG012196 z15	23.02	134.89	279.72	1.81	27.78	9295.50		0.062	132.13	2.35	1.16	165.04	18.020							1818.17	606.15	487192.01	46.18	19.13
UG012196 z16	9.99	99.40	185.87	2.01	24.46	8602.76		0.136	86.93	0.79	1.72	258.11	34.401							1219.51	393.78	486782.59	1372.26	6.93
UG012196 z17	<del>1</del> .3	93.35	177.83	1.78	23.17	9650.59	36.38	0.008	78.62	0.00	1.36	145.13	<0.023							1151.66	366.32	488199.17	<5.473	6.08
11G012196 218	14.68	107.50	211.65	1 19	20.30	9728 87		0.000	102.81	1.09	1.3	166.00	0.032							1374 60	479 64	486923.13	13.34	8 17
UG012196 z2	4.47	28.48	62.95	0.42	5.73	10390.98	11.48	0.004	38.52	0.41	0.18	87.49	<0.008							396.32	161.21	488958.45	<2.344	2.86
UG012196 z20	18.49	146.59	293.96	1.88	30.34	8736.92	60.09	0.008	128.60	2.02	1.22	289.30	<0.023							1896.60	602.74	487384.04	<5.489	96.6
UG012196 z21	12.21	75.17	160.73	0.98	14.16	10057.56		0.004	82.96	1.31	99:0	136.10	0.025							1024.91	375.88	488061.22	<2.353	5.33
UG012196 z22	34.19	137.87	317.52	48.	27.69	12267.04		0.049	183.59	2.77	1.19	241.52	0.351						.,	1990.92	778.39	484120.04	63.89	9.73
UG012196 z23	6.46	44.78	79.82	1.26	13.51	10209.12		0.008	39.39	0.45	0.73	124.31	0.102							523.50	173.56	488821.32	<5.622	4.38
UG012196 z3	10.95	98.85	181.10	2.02	25.24	8954.85		0.006	90.34	0.78	1.97	216.73	0.016					•		1207.87	400.49	488464.47	6.59	4.42
UG012196 z4	9.63	89.10	174.04	4 8	19.11	9037.23	34.78	0.006	87.86	0.1.	1.10	180.05	0.016							1146.73	389.66	488587.91	<2.373	6.41
11G012196 25	10.94	95.30	187.07	20. 1.	20.20	8815.69	36.70	0.240	91.03	2.5	1.30	196.17	0.017				•			1215 88	409 94	4857151	20.51	t %
UG012196 z7	6.01	57.02	114.04	66.0	12.81	9493.05		0.005	62.20	0.88	0.97	121.77	0.011							741.78	268.77	489004.22	<2.336	5.54
UG012196 z8	4.79	51.94	85.98	1.	14.39	9494.95		0.006	38.52	0.43	1.05	63.80	<0.012							573.26	182.73	489426.15	<3.387	4.68
UG012196 z9	6.02	51.19	96.79	0.97	12.80	9437.74	19.24	0.083	51.42	99.0	1.37	132.94	2.788							628.84	226.16	488995.68	143.33	7.36
UG012197 z1	11.02	81.17	171.21	1.17	16.13	9758.18		0.011	87.93	1.34	0.93	297.63	0.230					•		1071.26	382.75	487825.96	40.49	7.55
UG012197 z10	10.33	78.33	182.34	1.	15.35	8767.91	33.04	0.005	96.05	1.39	0.80	161.85	<0.010					•		1143.05	432.36	488795.73	<2.821	7.50
UG012197 z11	16.26	112.94	238.78	1.50	21.04	9092.76		9000	116.19	1.93	96.0	205.58	0.299							1530.20	531.90	487766.82	52.93	7.78
UG012197 z12	15.27	118.05	234.70	9.1	24.48	8766.08		0.005	111.33	1.7	1.10	233.87	<0.010							1518.60	516.66	488060.43	<2.879	8.59
UG012197 Z13	7.07	48.00	175.76	1.63	9.32	97.38.25	27.12	0.008	76.03	07.0	0.30	154.20	<0.027							700.19	292.88	488780.22	45.030 46.653	
110012197 215	0 t	25.30	4.40	3 5	25.03	00.0100	24.26	0.000	0.07	2.7	- G	100.00	70.027 0.028							1004-33	367 65	466637.70	73.00Z	2.01
UG012197 215	6.03	41.38	91.06	0.63	8.78	9016.84		0.03	48.33	0.61	0.90	141 28	<0.028							578.85	213.54	489582 10	9 69	5.82
UG012197 z17	172.07	62.09	106.68	2.02	27.34	10980.10		64.593	46.34	2.46	95.40	7930.04	0.376	,					•	729.50	221.45	471025.82	547.88	25.
UG012197 z18	8.30	59.55	127.44	0.84	12.79	9108.82	23.98	0.017	66.35	0.84	1.00	259.62	<0.012							818.82	286.77	488888.19	6.49	7.82
UG012197 z19	4.47	28.26	60.89	0.38	6.68	9280.66	11.12	0.012	34.11	0.59	0.48	110.35	<0.010							385.77	146.74	489394.03	3.15	4.90
UG012197 z2	4.72	35.45	74.77	0.46	7.35	9506.16	14.19	0.009	44.52	69.0	0.67	144.93	0.321							464.64	192.37	489359.03	12.81	96.3
UG012197 z20	9.07	54.51	125.27	0.82	11.59	9613.00	22.74	0.005	66.45	1.03	0.54	153.30	0.033							795.30	295.64	488629.74	85.35	5.71
UG012197 z21	4 :	83.35	166.58	1.17	16.95	9004.95	32.36	0.004	83.06	1.01	0.70	240.54	0.011							1085.92	374.29	488571.70	4.13	6.79
06012197 222	‡ 3	77.40	140.20	7 .	0 0	9191.10	C4.07	0.010	70.38	0.0	0. 4 0 r	201.02	0.073							923.03	312.34	400020.47	17.7	9.6
116012197 223	<u>4</u> 6	34.37	73.46		0.30	9940.10	05.15	0.035	38.27	5.59	0.70	153.45	0.055							458.35	360.03	467904.01	31.545	7.7
UG012197 z25	10.75	72.94	147.66	0.98	15.54	9323.68		0.006	77.05	1.02	0.78	170.33	0.013							963.15	343.39	488662.41	3.52	6.35
UG012197 z3	14.17	157.17	266.26	2.84	39.39	9000.32		0.011	107.17	1.03	2.67	200.83	0.038							1804.61	513.58	487538.62	15.80	8.06
UG012197 z4	6.30	50.15	112.07	99.0	9.56	9467.53	21.13	0.008	61.43	1.04	0.54	160.19	0.186							695.96	273.09	488999.17	<5.711	13.72
UG012197 z5	5.78	61.23	114.55	1.30	15.19	9430.72	23.29	0.008	56.61	0.51	96.0	143.47	<0.027							734.40	247.80	489029.95	<5.650	5.70
UG012197 z6	13.62	109.62	232.66	1.57	21.86	8958.65	44.22	0.016	112.70	1.42	1.35	298.42	0.074							1459.71	504.24	487845.82	7.03	9.65
UG012197 z/ UG042407 =0	 	46.28	103.40	0.78	9.87	9065.23	19.09	0.008	29.76	0.87	0.51	1/0.90	0.049							052.10	256.99	489362.71	5.07	7.07
0.0012197.28	0.5/	155.57	76.97	2.3	37.03	8802.47	15.70	0.008	124.53	0.0	2.03	00.707	0.021							18/2.21	575.32	48/415.72	100.25	9.0
UG012197 z9	5.91	61.87	118.54	4.5	15.52	9146.97	23.37	0.005	60.32	0.66	1.09	160.44	0.010							1266 03	271.27	489143.62	<2.497	6.09
UG012198 210	29.38	183.16	422.15	202	29.58	8834 99		0.005	200.55	262	1.26	309.17	0.095							2558 98	934 84	486006.84	<2.521	12.58
UG012198 z11	7.94	57.46	151.21	0.76	9.78	8882.56		0.003	93.40	0.97	0.45	174.95	<0.008							869.29	392.88	489065.62	<2.474	6.17
UG012198_z12	9.47	82.01	178.02	45.	18.27	8495.74		0.003	96.30	99:0	1.32	248.72	0.031							1076.08	428.01	488886.71	<2.490	4.91
UG012198_z13	15.43	80.09	193.31	1.29	16.10	8727.52	35.12	0.014	105.20	1.19	1.45	226.61	0.089	80:0	2.71 0.	0.24 5.63	3 108.80	30 44.36	5 60.45	1139.32	469.20	488578.44	8.11	11.77
UG012198_z14	11.07	83.69	176.04	1.78	21.92	8713.23	33.16	0.013	95.25	69.0	2.15	273.23	0.047							1068.50	427.04	488637.00	<2.595	26.9
UG012198_z15	3.88	87.94	166.31	2.10	22.07	9027.37	30.82	0.012	97.66	0.52	1.98	184.64	0.163							1068.02	391.04	488690.16	<6.403	5.80
		*AII e	$^*$ All elements are in ppm.	ıts aı	re in L	pm.																		

Appendix C: Eastern Sunda arc zircon trace element chemistry

	١.	80.8	_			_				_		_			_								_			_				_					_				_					_
Fe	1	<2.560				·		•	·		•			·	·	·							•					·				·		•		•	•		•					<2.78
Zr	400046 27	489505.43	488652.87	489358.61	488558.49	487402.84	488633.73	481574.72	488102.59	488712.57	486187.78	485717.50	488204.04	488882.55	489683.41	488594.90	488817.08	486475.15	488831.80	488337.09	488448.30	489657.42	489418.04	488239.73	489076.81	488679.99	48867 13	485314.40	488034.35	487156.18	488224.77	488021.97	488463.80	488092.12	489032.35	487237.19	487573.67	489514.31	488293.69	487721.16	487961.84	486035.67	488625.90	488270.62
χ	2002	231.05	352.51	282.84	224.24	696.87	387.44	1640.20	495.91	451.15	808.69	927.53	569.11 666.08	439.81	116.05	366.46	328.66	852.67	324.10	342.30	488 44	254.16	364.03	578.60	405.32	533.51	200 00	963.49	512.47	497.73	575.04	280.77	286.50	395.21	133.64	197.92	625.66	176.12	195.22	470.39	316.75	572.73	113.13	202 24
>	90.000	520.69	904.95	652.35	490.47	1756.15	869.04	4923.10	1154.73	1098.09	2316.58	2738.96	1312.71	1078.43	257.34	1022.77	816.61	2255.83	708.18	889.26	1198.96	588.59	925.83	1490.44	1062.55	1275.28	662 31	2837.37	1315.03	1327.92	1466.76	612.35	696.86	1065.60	273.99	483.13	1626.14	378.74	432.22	1213.85	797.21	1340.59	245.01	1000
ם	200	26.73	88.90	24.66	30.35	88.09	42.64	257.67	55.17	51.62	130.33	118.83	68.43 86.13	50.15	13.30	43.56	46.73	106.20	41.87	44.46	73.19	36.45	68.48	66.65	46.20	64.98	35.48	149.01	67.85	74.71	73.77	43.12	28.50	46.46	20.63	31.09	56.12	17.54	23.14	64.04	43.69	105.96	20.82	
T.	70.40	21.47	34.02	25.77	20.04	67.38	35.12	166.09	46.74	42.81	81.54	92.68	53.28	41.25	10.26	36.15	31.12	83.18	29.60	33.38	46.98	24.01	33.34	56.71	38.80	49.28	28.82	97.62	49.84	48.63	55.64	26.01	27.18	38.74	12.32	18.15	61.08	15.97	17.76	45.02	30.44	53.75	10.22	000
£	100 00	23.03	375.94	19.11	23.93	111.72	36.64	686.74	60.15	60.97	283.39	277.28	148.26	65.55	12.53	88.01	54.20	136.74	35.26	59.46	26 98	37.53	120.17	96.76	76.35	87.81	37.68	315.53	124.72	145.39	124.59	24.59	15.10	38.43	7.31	16.43	37.89	7.54	9.85	34.23	21.40	43.92	9.03	
ą	4 4 07	2.39	5.80	3.05	22.5	8.18	3.94	34.89	5.13	5.14	12.88	18.86	5.81	5.50	1.35	6.42	4.04	10.84	. 3	5.11	2.5	2.71	5.93	8.04	5.91	6.02	3.00	16.30	6.84	8.45	8.04	2.83	4.00	6.73	1.26	2.83	9.10	1.86 2.25	2.12	5.89	4.17	5.75	1.21	
Ta	000	0.10	0.27	0.10	0.10	0.27	0.21	0.43	0.25	0.18	0.37	0.21	0.29	0.18	0.04	0.13	0.13	0.36	0.12	0.12	0.13	0.17	0.12	0.23	0.15	0.23	0.12	0.37	0.24	0.14	0.18	0.13	0.13	0.12	0.07	0.11	0.22	0.13	0.12	0.25	0.14	0.43	0.11	
S	0 77	0.97	3.31	1.02	0.78	2.64	1.4.1	21.62	1.62	1.62	4.38	11.35	2.12 5.05	2.08	0.38	3.83	2.11	2.99	1.29	2.74	83.5	0.88	3.88	2.89	3.27	2.01	3. 1	5.86	2.75	5.51	3.25	1.59	2.37	4.13	0.38	0.93	3.48	0.97	5 6	1.70	2.17	2.13	0.51	
Ā		0.02	0.08	0.02	0.01	0.05	90.0	0.69	0.02	0.02	0.09	0.37	0.05	9 0	0.01	0.11	90.0	0.04	0.02	0.06	0.03	0.03	0.19	0.07	0.11	90.0	50.0	0.09	90.0	0.16	0.07	0.09	0.05	0.13	0.01	0.01	0.09	.0.0 .0.0	0.02	0.02	0.04	0.03	0.01	
Ъ	0.045	0.020	0.114	0.030	0.085	0.039	0.285	0.198	0.017	0.021	0.121	0.080	0.022	0.020	0.013	0.025	0.016	0.034	<0.008	0.020	0.028	0.010	0.033	0.023	0.023	0.024	0.047	0.082	0.207	0.053	0.049	0.017	<0.008	<0.007	<0.007	0.086	<0.008	<0.007	0.016	0.008	<0.007	<0.007	<0.007	
۵	99 000	170.88	174.74	198.29	141.11	244.57	174.10	659.85	212.40	185.15	304.58	368.74	331.33	258.46	79.19	141.18	192.60	276.87	164.85	170.29	232.20	147.40	142.73	289.66	189.06	221.23	103.02	315.54	257.97	138.15	273.53	214.67	276.24	237.95	148.57	136.00	476.12	202.31	243.49	319.16	235.95	374.56	116.89	
Ž	0 0	0.53	1.60	0.42	45.0	1.02	0.52	11.53	0.62	0.57	1.88	6.13	3.16	0.85	0.31	1.92	0.91	<del>1</del> .	0.47	1.15	0.62	0.50	3.20	1.09	1.72	0.96	0.5	1.41	1.4	3.23	1.21	0.52	1.17	2.04	0.22	0.23	1.51	0.34	0.34	0.62	0.91	0.72	0.36	
2	4 47	0.65	1.66	99.0	79.0	1.99	0.92	2.54	1.26	0.88	1.99	1.26	1.48	0.83	0.40	0.65	0.74	2.26	0.87	0.62	1 1 4	0.70	0.57	1.20	0.69	1.34	0.00	2.04	1.26	0.68	1.04	0.72	0.64	0.57	0.43	0.51	1.03	0.62	0.45	1.39	92.0	1.77	0.61	
P	160 52	55.15	80.98	68.15	51.73	152.76	88.89	349.04	112.58	101.34	174.80	198.70	129.50	99.85	26.97	78.38	75.44	184.00	76.24	76.55	110.64	57.28	85.51	129.96	91.93	118.38	70.04	205.30	115.33	107.14	125.94	67.28	68.57	88.71	33.06	45.62	140.36	42.93	49.01	111.30	75.38	137.97	28.31	
La	0.50	0.018	0.003	0.007	0.004	0.003	0.129	0.062	0.006	0.003	0.045	0.068	0.003	0.004	0.006	0.010	0.011	0.003	0.003	0.003	0.003	0.017	0.024	0.003	0.005	0.007	0.004	0.010	0.014	0.005	0.019	0.020	<0.001	0.012	<0.001	0.003	0.010	40.001	0.002	0.002	0.003	<0.001	0.006	
오	70.00	15.33	28.81	19.33	14.08	53.79	25.63	154.61	34.56	32.56	70.46	84.42	38.87	32.97	7.55	31.92	24.38	09.89	20.57	26.68	35.29	17.34	28.00	46.57	32.18	38.29	19.75	85.56	40.88	41.41	45.28	17.63	20.30	32.47	7.89	14.79	50.41	10.56	12.97	35.17	23.63	38.46	6.81	
ž	0000	9123.24	9031.98	8974.35	104 / 6.82	8917.37	9333.74	8265.35	9420.21	8845.86	9087.49	8631.20	8844.75	8459.35	9746.24	9319.49	9299.01	9002.23	9585.91	9872.29	8794 77	8817.20	8327.48	8310.62	8449.28	8351.29	9370.34	9104.65	8707.45	10461.22	8359.34	10748.27	9874.22	9661.61	10378.22	12343.39	8493.60	9364.71	10759.84	9601.63	10422.03	11302.52	11071.75	10
PS	47.90	7.12	18.25	7.72	5.38	20.53	9.52	113.26	13.54	12.23	35.88	61.10	14.57	15.74	4.27	20.26	12.29	26.11	8.26	15.34	14 67	7.62	20.64	21.62	18.63	15.05	ο α \$ Σ	46.08	18.94	25.69	22.92	8.46	12.60	22.58	3.19	7.74	24.86	5.79	5.30	15.55	12.14	15.45	3.11	
a	0 0	0.51	1.58	0.53	0.36	1.33	0.71	9.48	0.77	0.81	2.51	5.50	0.96	1.15	0.31	1.78	0.94	1.59	0.60	1.18	0.90	0.55	2.33	1.57	1.42	1.23	0.00	3.17	1.35	2.11	99.7	9.6	0.90	1.83	0.24	0.47	1.61	0.43	0.32	0.85	0.84	0.79	0.31	
ù	26474	89.70	148.88	112.01	82.80	299.15	149.49	768.77	197.73	182.86	369.64	424.24	226.67	179.40	42.87	163.54	133.26	372.13	119.91	145.03	199.45	100.38	144.30	248.71	170.24	211.71	113.32	446.46	219.84	219.85	247.23	102.95	111.60	168.36	46.61	76.11	267.41	63.60	71.64	197.53	130.97	223.76	40.38	
۵	100 44	35.23	72.23	44.27	31.52	123.17	59.30	415.66	76.51	74.02	174.41	223.95	131 70	80.08	18.41	83.33	58.08	160.69	44.98	67.28	83.33	39.58	73.73	112.77	81.01	88.81	49.47	217.52	96.96	105.87	113.18	40.24	51.09	87.06	17.77	35.24	119.11	25.10	29.38	84.21	56.30	87.41	16.35	
S	30.00	4.76	22.45	4.88	5.07	17.47	8.24	62.39	12.70	10.49	32.13	26.17	13.72	6	3.60	9.54	7.86	24.11	7.23	8.19	12.37	6.57	9.40	13.98	10.32	13.96	6.04	36.17	16.47	14.69	14.44	5.17	4.23	7.30	2.23	48.8	10.24	3.77	2.80	8.18	5.25	10.95	3.46	
Analysis ID	97- 907070	UG012198_216	UG012198_z18	UG012198_z19	UG012198_Z2	UG012198_221	UG012198 z22	UG012198_z23	UG012198_z24	UG012198_z25	UG012198_z26	UG012198_z27	UG012198_228	UG012198 z3	UG012198 z30	UG012198_z31	UG012198_z32	UG012198_z33	UG012198_z34	UG012198_z35	UG012198_230	UG012198 z38	UG012198_z39	UG012198_z4	UG012198_z40	UG012198_z41	UGU12198_242	UG012198_z6	UG012198_z7	UG012198_z8	UG012198_z9	BHF-01 22	BHF-01 z3	BHF-01 z4	BHF-01 z5	BHF-01 z6	BHF-01 z7	BHF-01 28	BHF-04 21	BHF-04 z10	BHF-04 z11	BHF-04 z12	BHF-04 z13	

Appendix C: Eastern Sunda arc zircon trace element chemistry

	F	97.9	7.31	4.10	5.59	6.45	4.16	5.84	4.21	3.88	3.27	4.47	4.83	6.03	4.04	6.27	4.66	4.01	6.48	3.96	4.91	4.01	9.49	5.21	5.46	5.13	5.71	4.73	4.80	4.27	5.54	5.69	4.34	4 7 D	4.20	8.08	10.04	8.01	6.05	7.48	90.9	8.69	24.2	4 92	5.69	9.75	4.23	4.44	27.81	
	Fe	3.10	<2.791	<2.797	3.05	3.39	<2.848	<2.834	<2.813	<2.803	<2.776	<2.803	<2.791	<2.783	<2.787	<2.793	<3.510	<2.860	<2.841	<2.776	<2.744	<2.740	8.51	3.46	3.35	<2.749	7.12	<2.724	<2.893	<2.705	<2.859	<2.765	<3.524	/3.03/	<2.868	<3.009	<2.774	<2.727	<2.751	4.32	3.61	<2.703	57.70	<2.849	<4.059	<2.821	<2.931	<2.726	8.76	
	Zr	488112.33	487986.99	488744.84	488252.11	487328.52	488233.94	488554.75	488308.79	487560.20	487741.27	488853.13	488495.62	487977.21	488065.40	488510.25	488914.62	488822.90	488690.04	488754.91	488547.83	488644.32	480890.38	488678.76	485320.52	488427.46	488785.10	488684.34	488486.26	487207.27	486425.27	487613.16	488967.15	488598 81	487911.10	486036.80	486400.57	487637.87	487323.27	487419.39	486646.70	487555.55	486162.13	488318.03	488409.51	486819.69	488868.80	488052.05	487949.69	
	Yb	378.77	517.51	199.28	274.53	464.88	190.19	296.46	273.62	256.64	169.17	209.95	305.95	403.74	241.87	298.31	185.29	128.43	259.39	144.09	250.31	142.95	1126.02	196.62	664.94	283.07	164.51	201.86	228.15	424.28	575.83	452.24	242.67	330.03	387.94	724.87	96.689	535.89	421.43	601.90	468.13	580.47	505.30	363.90	388.68	700.46	134.25	364.15	441.23	
	٨	827.48	1392.46	443.18	626.34	1121.38	402.07	685.00	613.94	590.58	369.08	474.09	684.97	935.99	515.43	601.02	432.33	292.97	657.88	341.11	581.35	316.86	2900.85	442.59	1438.15	644.51	373.96	509.88	536.39	952.15	1449.28	1104.31	553.79	668.03	947.82	1872.75	1834.43	1331.54	1047.88	1671.20	1272.27	1400.09	1228 56	950.13	1035.76	1726.48	349.23	850.74	1209.21	
,	n	72.30	41.14	20.73	35.91	84.94	27.78	34.74	38.39	4.94 4.94	34.64	24.97	32.05	52.55	33.33	39.43	25.51	17.73	27.70	26.46	32.00	19.60	77.30	31.55	50.13	36.86	22.91	42.29	29.68	65.94	105.79	96.09	23.71	30.04	51.61	121.09	386.54	204.27	293.79	168.94	362.12	265.63	146.30	119.28	116.80	239.63	40.52	140.86	131.53	
	μL	33.74	51.37	17.80	25.30	43.45	16.94	27.20	24.85	23.73	14.92	19.01	28.17	36.98	22.29	25.68	17.74	12.05	24.17	13.15	23.42	12.93	108.38	17.84	60.61	26.01	15.16	19.04	21.21	38.98	55.17	42.72	21.49	26.74	36.70	70.69	90'.29	51.71	39.77	29.80	44.13	5.75	48 18	34 5	37.26	08.99	12.39	33.48	43.89	
	두	42.97	21.64	7.85	17.45	33.63	20.98	13.48	14.60	20.19	16.43	8.83	10.97	18.18	33.47	17.29	9.83	69.9	16.45	11.12	12.19	7.19	502.24	14.64	127.51	13.55	9.13	24.54	12.98	23.47	53.68	27.05	9.36	12.10	26.50	64.89	427.27	152.88	251.37	170.85	435.84	205.67	89.00	25. 25. 25. 25. 25. 25. 25. 25. 25. 25.	114.32	171.99	42.92	86.12	111.87	
	ф	3.56	7.21	2.22	2.88	5.01	1.98	3.35	3.05	2.93	1.78	2.16	2.93	4.12	2.51	2.82	2.04	1.43	3.98	1.69	2.85	1.54	16.28	1.99	6.72	2.86	1.86	2.71	2.61	4.34	6.93	5.30	2.62	3.03	5.05	9.14	8.72	6.04	5.15	10.07	6.75	6.11	13.0	2,18	6.48	7.71	2.10	4.02	6.62	
	Та	0.25	0.15	0.08	0.22	0.29	0.36	0.17	0.10	0.20	0.13	0.13	0.18	0.28	0.44	0.21	0.12	0.11	0.14	0.09	0.13	0.11	2.59	0.17	1.06	0.18	0.13	0.16	0.14	0.30	0.28	0.21	0.1	0. 0.	0.16	0.46	0.65	0.54	0.52	0.31	0.64	0.57	0.59	0 29	0.23	0.73	0.14	0.32	0.33	
	Sm		2.24			1.45			1.16			_			0.99									0.97											2.25							1.84			3.67		_	1.57	N	
	ď	0.05	0.05	0.01	0.01	0.03	0.0	0.03	0.02	0.02	0.01	0.02	0.02	0.03	0.04	0.02	0.0	0.0	0.00	0.01	0.01	0.02	90:0	0.01	0.02	0.01	0.01	0.01	0.02	0.02	0.03	0.03	0.03	0.00	0.05	0.02	0.02	0.04	0.04	0.16	0.08	20.0 40.0	0.23	0.08	0.11	0.05	0.00	0.03	0.10	
	Ъ	0.011	<0.006	<0.006	<0.006	0.008	<0.007	<0.006	<0.006	<0.006	0.008	<0.006	<0.006	<0.006	0.012	0.014	0.011	<0.007	<0.006	<0.006	<0.006	<0.006	0.106	0.007	0.027	<0.006	0.023	<0.006	<0.007	0.009	0.011	0.010	<0.008	0.000	<0.007	0.015	0.242	0.060	0.087	0.080	0.141	0.065	0.220	0.026	0.039	0.068	0.017	0.031	0.050	
	۵	216.72	424.63	207.95	218.23	295.69	195.11	240.08	313.92	184.02	137.59	197.59	234.31	297.53	204.53	183.91	157.00	151.74	170.52	168.55	196.29	143.79	1076.60	210.36	550.84	206.39	144.50	219.22	144.95	266.32	377.19	399.37	157.52	251.03	351.60	453.59	371.15	311.71	267.90	334.89	450.19	300.83	336.50	219.79	203.62	338.51	95.79	280.07	273.94	
•	ρN	0.78	99:0	0.34	0.31	0.74	0.27	0.68	0.36	0.26	0.25	0.23	0.43	0.60	0.36	0.50	0.34	0.24	1.03	0.20	0.41	0.31	1.80	0.27	0.59	0.29	0.21	0.41	0.44	0.44	0.64	0.52	0.43	0.45	0.74	0.99	1.12	0.94	0.79	2.60	1.14	0.91	5.55 08.0	1.27	1.52	1.14	0.91	0.58	1.40	
	qN	1.05	1.03	0.44	0.80	1.37	0.64	0.81	0.62	0.95	0.61	0.75	0.94	1.1	1.31	0.94	0.59	99.0	0.72	0.65	0.85	09:0	5.45	0.71	4.05	0.83	0.61	0.70	0.67	1.35	1.67	1.09	0.64	0.09	0.81	2.25	2.70	1.85	1.81	1.37	2.16	2.24	1.07	0.95	0.75	2.61	0.55	1.12	1.12	
	Ľ	94.46	117.39	49.46	68.22	114.29	46.21	72.26	68.47	64.95	42.73	51.40	75.12	98.23	58.11	74.65	44.79	31.51	92.09	35.92	62.23	35.71	232.75	48.15	142.95	68.89	41.19	47.59	55.79	102.99	135.32	109.20	58.26	90.30	93.07	171.43	157.61	124.75	97.27	136.21	107.91	136.36	118 73	84.53	85.24	157.81	32.16	86.11	102.11	
	La	0.002	<0.001	<0.001	<0.001	<0.001	0.002	<0.001	<0.001	<0.001	0.003	<0.001	<0.001	<0.001	0.028	<0.001	0.005	<0.001	0.002	0.002	<0.001	0.015	900.0	0.004	0.001	0.003	0.008	<0.001	<0.001	<0.001	0.001	0.003	0.003	0.00	<0.00	<0.001	0.005	9000	0.002	0.012	0.052	<0.001	0.030	0.00	0.017	0.005	0.025	0.004	0.017	
<b>'</b>	Но	22.93	42.93	12.71	18.28	32.42	11.96	19.91	17.79	17.21	10.41	13.49	19.71	26.48	14.95	17.08	12.36	8.39	19.31	9.66	16.54	9.16	89.39	12.59	43.27	18.41	10.81	14.97	15.76	27.60	43.07	32.69	16.10	10.13	27.76	54.85	53.96	39.83	30.57	20.80	37.76	39.98	35.38	28.22	31.66	49.98	10.16	24.14	36.25	
•	Ŧ	10091.20	8643.65	10236.26	10425.67	10323.00	11006.20	9852.68	10129.58	11514.90	11894.02	10050.27	9941.74	9896.84	10927.57	10182.59	10171.25	10624.55	9945.15	10559.90	10214.78	10821.58	12536.40	10299.26	11473.98	10197.53	10490.16	10135.07	10534.75	10928.54	10585.51	9750.77	9830.40	9527.50	9829.19	9975.92	9227.24	9209.51	10193.29	8777.34	9933.48	9073.95	8875.85	9547.52	9263.69	9313.36	10551.82	9892.53	9263.41	ppm.
ŀ	В	10.40	19.24	6.01	7.51	12.79	5.48	8.74	8.67	7.61	4.92	6.27	8.32	11.07	6.53	7.45	6.14	4.38	13.70	4.69	7.56	3.90	43.19	5.57	17.27	7.53	4.61	8.15	7.27	10.65	17.34	14.54	8.29	25.93	15.07	22.16	23.06	16.16	12.64	31.88	17.85	15.42	15.26	15.03	20.35	20.08	6.80	11.43	19.42	re in
	Eu	0.65	1.21	0.51	0.48	69.0	0.33	0.54	0.55	0.42	0.27	0.45	0.58	29.0	0.34	0.59	0.33	0.25	0.83	0.25	0.36	0.29	1.08	0.38	0.48	0.47	0.29	0.45	0.48	0.65	0.78	0.77	25.0	0.57	1.01	1.22	1.21	0.85	0.70	2.42	0.93	0.96	0.00	0.82	1.15	1.1	0.62	0.63	1.29	ints a
	ù	135.82	230.48	73.51	106.14	186.47	68.45	114.93	103.21	97.21	59.61	77.94	115.97	155.01	89.77	104.27	73.15	48.57	105.19	55.76	96.70	52.16	475.88	73.31	245.52	106.70	62.06	82.27	89.34	158.53	238.41	180.73	89.86	111.62	155.88	304.21	300.12	219.46	170.73	264.45	200.71	230.17	203.68	154.73	164.81	284.05	54.04	139.84	193.02	elements are in
	ò	52.04	102.62	29.67	42.02	73.61	27.41	46.47	41.93	40.77	24.61	31.88	44.49	92.09	36.20	38.50	29.41	20.08	50.10	23.02	38.45	22.01	224.09	28.20	101.89	43.14	24.99	36.08	37.06	62.35	66.66	75.78	38.44	40.70	68.36	131.10	131.20	89.32	69.05	131.10	90.76	91.61	81.90	70.77	79.72	111.67	26.09	57.59	92.50	*AII
İ	ဝီ	7.57	5.63	2.96	4.75	7.91	2.50	4.52	3.69	2.58	4.00	3.48	4.60	5.95	4.45	5.89	3.29	2.55	5.25	2.89	4.28	2.81	27.20	3.59	8.98	4.65	2.93	5.45	4.33	7.23	11.27	6.87	3.57	80.4 80.4	5.76	13.48	20.01	12.10	12.51	11.87	17.47	13.50	928	6.01	8.19	15.43	4.84	6.73	9.04	
_	Analysis ID	BHF-04 z15	BHF-04 z16	BHF-04 z17	BHF-04 z18	BHF-04 z19	BHF-04 z2	BHF-04 z20	BHF-04 z21	BHF-04 z22	BHF-04 z23	BHF-04 z24	BHF-04 z25	BHF-04 z26	BHF-04 z27	BHF-04 z28	BHF-04 z29	BHF-04 z3	BHF-04 z30	BHF-04 z31	BHF-04 z32	BHF-04 z33	BHF-04 z34	BHF-04 z35	BHF-04 z36	BHF-04 z37	BHF-04 z38	BHF-04 z39	BHF-04 z4	BHF-04 z40	BHF-04 z41	BHF-04 z42	BHF-04 z5	BHF-04 20	BHF-04 z8	BHF-04 z9	JEM-02 z1	JEM-02 z10	JEM-02 z11	JEM-02 z12	JEM-02 z13	JEM-02 z14	JEM-02 215	JEM-02 22	JEM-02 z3	JEM-02 z4	JEM-02 z5	JEM-02 z6	JEM-02 z7	

Appendix C: Eastern Sunda arc zircon trace element chemistry

					5										5	2						2	i		Ξ
1.   1.   1.   1.   1.   1.   1.   1.	0 - 2 %			0.61	11.72	9180.70	29.44	0.002	103.97	1.53		262.78	0.019												7.41
1.   1.   1.   1.   1.   1.   1.   1.		•	345.76	1.35	27.88	9469.65	63.64	0.011	185.24	3.98		406.17	0.137			_			•			•			9.21
1.   1.   1.   1.   1.   1.   1.   1.			384.47	0.49	30.87	10162.52	71.65	0.007	178.58	2.60		659.05	0.300						•			•	•		3.90
1.1.   1.1.			472.07	0.63	36.52	10467.52	86.90	0.057	222.99	3.28		774.53	0.400			•		_	.,		_	-			4.93
1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,		_	246.48	0.22	17.06	10438.78	44.72	0.012	127.09	1.60		467.37	0.373										•		3.80
1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,				0.72	45.95	10903.21	105.68	0.032	247.00	4.14		839.56	0.500				•						1887.83		86.4
1.   1.   1.   1.   1.   1.   1.   1.				0.56	21.66	10553.34	51.98	0.837	132.44	1.68			6.951										2463.95		1.31
1.   1.   1.   1.   1.   1.   1.   1.				0.52	23.18	11050 21	60.45	0.120	40.64	1.89			0.15/										0839.55		6.53
1.   1.   1.   1.   1.   1.   1.   1.				0.3	20.87	10.60011	54.70 64.70	0.029	145.47	0 7			0.203				-		•				0000000		0 0
1.   1.   1.   1.   1.   1.   1.   1.			474 65	0.33	38.27	10518.50	88 23	0.016	214 61	566			0.319			,		•			•				3 2 2
1.   1.   1.   1.   1.   1.   1.   1.			267.93	0.36	20.46	10656.85	48.84	0.111	129.22	1.65			0.278												3.67
1.   1.   1.   1.   1.   1.   1.   1.			334.01	0.59	25.72	10371.86	61.54	0.005	159.54	1.28			0.271			•							1907.25		3.78
14.0   14.1			352.52	0.72	28.64	10066.93	65.85	900.0	165.66	2.08			0.324			·			•				5148.80		5.33
1.5.5   1.5.1.   1.5.5.   1.	_		331.57	0.52	22.87	10441.51	59.19	0.024	166.38	2.12			0.227										5220.86		4.98
1.   1.   1.   1.   1.   1.   1.   1.	_		284.99	0.37	21.16	10890.91	51.67	<0.001	134.64	1.55			0.194										5414.40		3.66
25.00   21.544   24.455   1.018   21.514   1.01823   1.01824   1.01824   21.514	01		620.81	0.54	46.09	10707.81	116.17	0.048	292.37	4.18	•		90.809					•					0468.20		3.17
1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,	_		567.57	0.72	48.13	10298.33	107.54	0.005	246.90	3.79			0.598					•				-			3.78
1.50   1.584   2.584   1.50   2.584   1.50   1.50   2.594				1.50	43.81	9949.23	85.42	0.005	196.04	3.31			0.884												5.07
14.15 16.54.7 4.54.7 10.54 16.57.7 4.60 0.100 12.54.1 1.26 0.100 12.54				0.58	22.15	9830.44	63.78	0.012	187.56	2.24			0.160												5.10
2.275 6.000. 1.097 6.34.0				0.35	18.87	10231.77	46.05	0.003	124.77	1.26			0.164												3.74
12.25 5.0.77 1.0.75 1.0.25 1.				0.97	53.39	9846.58	105.80	0.170	225.61	2.50			0.464					•							9.56
1.25   1.25   2.35   2.3   2				09.0	35.98	11432.75	85.60	0.002	196.62	3.55			0.460										•		2.86
14.50   14.66   14.66   14.66   14.66   14.6   14	_			0.26	17.02	10499.57	42.66	0.364	122.03	1.55			0.442											_	9.55
1.17 1.126 3.1566 0.31 6.3 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0				0.45	26.32	10771.37	61.75	0.071	164.47	1.97			0.205												4.86
1377   13766   3561   0.516   0.212   10.4041   0.515   0.516   0.515   0.51	_			0.38	21.98	10224.87	55.92	0.004	147.61	1.98			1.635												3.88
1.55   14.15   20.05   2.5			361.05	0.51	22.12	10464.01	61.51	0.020	187.19	2.49			29.180												4.30
1.5.20   1.4.13   2.003   2.5.17   2.0.0   2.0.0   1.5.2   1			335.18	0.59	24.57	10021.92	61.26	0.022	161.77	1.68			0.263												4.16
1,12,   1,12			309.32	0.58	25.71	9897.47	58.34	1.852	126.34	2.17			0.254											•	7.92
14.   20.06   4.64.41   0.56   2.24.6   0.1045.51   0.50.0   0.17.65   2.24.6   0.1045.51   0.20.0   0.17.65   0.1045.51   0.20.0   0.17.65   0.1045.51   0.20.0   0.17.65   0.1045.51			372.18	44.0	26.98	10265.70	67.46	0.011	187.76	2.32			0.577												5.59
14.4 1 10.5 1 10				0.69	20.91	9145.15	50.30	0.492	115.12	1.05			0.095												5.58
1.25				0.59	29.87	10645.17	70.60	0.003	172.63	2.61			0.467												4.95
10.28   97.9   20.56   0.37   15.84   10.833.09   4.4 × 2   0.07   13.22   16.8   0.58   1.8   0.28   0.134   0.134   0.				0.55	32.49 25.66	10415.59	65.00	0.000	168 62	68.			0.814												2.27
1.26   172.05   377.34   0.54   31.00   0.022338   70.75   10.45   0.00   1.65   0.00   0.00   1.65   0.00   1.65   0.00   1.65   0.00   0.0				0.37	15.84	10333 09	44 27	0.007	132 22	163			0.134									•			4 46
2181 195.29 443.13 0.66 33.80 1063 0.06 207.43 12.90 10.06 207.43 12.90 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.2				0.54	31.20	10523,38	70.75	0.077	184.85	1,81			0.298			_						•	_		5.53
1152 1825 406.04 0.69 33.8 0 1052121 74.8 0.004 189.84 1.33 1.62 851.39 4.317 0.05 4.14 0.14 0.14 0.14 0.14 0.14 0.14 0.14				99.0	35.35	10163.90	82.93	0.065	207.43	2.89			0.381			•							V		4.77
38.5 28.16 6 602.97 1.09 584.0 10586.43 115.99 2.636 267.03 3.92 4.73 137.16 9.07 1.09 1.00 1.00 1.00 1.00 1.00 1.00 1.00			406.04	0.69	33.80	10521.21	74.88	0.004	189.84	1.33			4.317			•						•			3.55
407 41729 81842 1.32 9020 998202 164.81 0.237 329.43 4.67 4.86 1227.11 0.987 0.29 126.81 17.0 4.60 654.77 17.17 4.40.83 5.214.06 1603.8 47857.99 34.88 4.89 4.89 4.89 4.89 4.89 4.89 4.89				1.09	58.49	10586.43	115.99	2.636	267.03	3.92	•		0.708						•			•	٧		5.93
487 71001 1233.5 392 166.11 8115.42 268.00 0.083 389.49 9.31 7.02 1295.39 0.481 0.34 20.8 186 66.8 4 344.40 230.96 24.1.77 7695.53 1956.38 476831.97 7.77 84.8 1.28 1.28 1.28 1.28 1.28 1.28 1.28 1.				1.32	90.20	9982.02	164.81	0.237	329.43	4.67			0.987						•						8.54
487 93.17 224.68 0.65 15.80 9464.2 41.07 0.042 105.96 1.15 0.43 94.36 4.709 0.04 1.90 0.27 0.409 0.15 0.40 1.30 0.27 0.40 1.30 0.27 0.40 1.30 0.27 0.40 1.30 0.22 0.09 0.22 0.29 0.25 0.29 0.29 0.29 0.29 0.29 0.29 0.29 0.29			1233.35	3.92	166.11	8115.42	268.00	0.083	369.49	9.31	•	295.36	0.481						L/4			1			7.59
6.08 178.72 389.18 147 35.79 9966.34 73.43 0.027 164.70 1.05 1.60 394.09 0.222 0.09 5.02 0.29 1315 474 1 8180 794.3 2294.18 774.21 486690.13 44.102 6.64 1.28.49 0.99 23.96 92.96.34 73.4 0.09 1.04 1.05 1.60 0.99 0.09 0.09 0.09 0.09 0.09 0.09 0				0.65	15.80	9449.42	41.07	0.042	105.96	1.15		343.64	4.769									•			7.04
6.64 129.43 278.19 0.99 23.96 9256.34 52.80 0.173 115.47 1.36 1.41 395.23 0.121 0.12 2.88 0.43 8.78 59.64 59.37 75.73 1638.61 562.10 487170.93 <-2702 5.11 125.84 285.54 0.89 24.33 881746 552.1 0.085 128.29 0.97 1.00 398.42 0.089 0.08 3.30 0.28 8.94 52.81 61.06 60.47 1651.01 589.30 487477.94 <-3.296 17.81 128.10 30746 0.26 21.96 11194.86 56.28 0.295 131.73 2.17 1.40 582.20 0.075 0.14 2.30 0.77 8.71 49.81 65.84 107.85 173.82 214.33 783.94 291.38 0.136 64.31 26.43 145.83 0.64 31.81 126.04 31.81 95.84 5.28 9.84 17.18 12.20 1.38 17.88 19.55 0.89 0.80 0.80 0.80 0.80 0.80 0.80 0.80				1.47	35.79	9956.34	73.43	0.027	164.70	1.05		394.08	0.222									•	•		4.94
5.11 125.84 285.54 0.89 24.33 881746 53.21 0.085 128.29 0.97 1.00 398.42 0.098 0.08 3.30 0.28 8.94 22.81 61.06 60.47 1651.01 589.30 48747.94 <32.86 7.11 125.84 0.89 1.43 881746 53.21 0.085 1128.29 0.97 1.00 398.42 0.075 0.14 2.30 0.77 8.71 49.81 65.84 107.85 1723.6 61.43 485163.74 <40.23 32.27 799.68 146.01 24.15 783.94 291.38 0.139 604.31 3.81 26.43 1196.31 0.535 1.65 43.38 0.65 66.31 458.90 310.40 313.61 977.27 927.29 972.7				0.99	23.96	9256.34	52.80	0.173	115.47	1.36		395.23	0.121									•			7.52
7.61 128.10 307.46 0.26 21.96 11194.86 56.28 0.255 131.73 2.17 1.40 582.20 0.075 0.14 2.30 0.77 8.71 49.81 65.84 107.85 1723.62 614.38 486163.74 4.023 32.27 799.68 1460.17 14.92 214.93 7838.94 231.38 0.139 604.31 3.81 26.43 1196.31 0.535 1.65 43.93 0.65 66.31 458.90 310.40 313.61 957.29 2973.43 47896.52 < 2.654 4.97 126.10 281.75 0.38 2144 10594.24 53.38 0.044 115.18 1.95 0.68 415.18 0.052 0.03 2.35 0.68 8.76 38.42 59.69 16.04.39 56.71 4817.91 <2.77 0.94 418.33 0.052 0.04 3.05 0.50 10.93 33.53 69.81 77.88 1925.55 667.83 485913.88 < 2.87 0.04 117.12 2.07 0.59 438.43 0.059 0.02 1.98 0.59 8.15 43.47 60.11 97.73 158.381 572.93 485913.88 < 2.870   **All elements are in DDm.**				0.89	24.33	8817.46	53.21	0.085	128.29	0.97		398.42	0.098									•	•		8.24
32.27 799.68 1460.17 14.92 214.93 7838.94 291.38 0.139 604.31 3.81 284.3 1196.31 0.555 1.65 43.93 0.65 66.31 485.90 310.40 313.61 9572.79 22734.3 473844.52 <.5.534 4.57 126.10 281.75 0.38 2144 10594.24 53.38 0.004 115.18 1.95 0.68 415.18 0.052 0.03 2.35 0.68 8.76 38.42 59.60 85.49 164.39 567.15 486171.91 <.2.728 4.81 126.04 33.55 0.55 0.55 0.55 0.59 10478.99 63.21 0.003 136.94 1.71 0.94 418.33 0.052 0.04 3.05 0.50 0.09 33.53 69.81 77.88 1925.55 667.83 485761.56 2.73 6.81 122.46 276.24 0.32 19.59 1087.37 52.07 0.004 117.12 2.07 0.59 439.43 0.059 0.02 1.38 0.59 8.15 43.47 60.11 97.73 1583.81 572.93 485913.98 <.2.670 4.81 124.04 0.304 0.304 0.304 0.304 0.304 0.305 0.30 0.30 0.30 0.30 0.30 0.30 0.3				0.26	21.96	11194.86	56.28	0.255	131.73	2.17		582.20	0.075									1		~	2.54
497 126.10 281.75 0.38 21.44 10594.24 53.38 0.004 115.18 1.95 0.68 415.18 0.062 0.03 2.35 0.68 8.76 58.42 59.60 56.49 1604.39 567.15 486171.91 <-2.728 481 156.04 335.55 0.65 2.796 10478.99 63.21 0.003 136.94 1.71 0.94 418.33 0.052 0.04 3.05 0.50 10.93 33.53 69.81 77.88 1925.55 667.83 485751.56 2.73 6.73 158.81 572.93 485913.98 <-2.670 6.79	(,)			14.92	214.93	7838.94	291.38	0.139	604.31	3.81	_	196.31	0.535	•		w	•	(,)	က	-	•••	•	٠.	_	8.90
481 156.04 335.55 0.55 27.96 10478.99 63.21 0.003 136.94 1.71 0.94 416.33 0.052 0.04 3.05 0.50 10.93 33.53 69.81 77.88 1925.55 667.83 485751.56 6.13 122.46 276.24 0.32 19.59 10867.37 52.07 0.004 117.12 2.07 0.59 439.43 0.059 0.02 1.98 0.59 8.15 43.47 60.11 97.73 1583.81 572.93 485913.98 .**All elements are in pum.				0.38	21.44	10594.24	53.38	0.004	115.18	1.95		415.18	0.052									•	•	_	2.60
6.13 122.46 276.24 0.32 19.59 10887.37 52.07 0.004 117.12 2.07 0.59 439.43 0.059 0.02 1.98 0.59 8.15 $43.47$ 60.11 97.73 1583.81 572.93 485913.98 $^*$ All elements are in pum.				0.55	27.96	10478.99	63.21	0.003	136.94	1.71		418.33	0.052			_						•		2.73	2.56
			276.24	0.32		10887.37	52.07	0.004	117.12	2.07		439.43	0.059									•		670	3.19
		*All e	lement	Sare		'n.																			

Appendix C: Eastern Sunda arc zircon trace element chemistry

	Ţ	4.06	3.18	3.42	2.27	3.40	4.30	2.78	2.49	1.86	3.08	2.92	3.10	92.9	3.47	2.84	3.10	3.79	3.95	2.90	3.25	2.31	3.22	2.20	2.74	2.17	3.06	4.08	2.82	2.76	3.46	7.10	3.05	3.66	2.55	2.90	2.91	3.64	2.71	2.41	3.25	2.60	2.95	2.03	2.65	2.62	2.88	2.60	5	
	Fe	5.22	<2.598	<4.520	4.42	6.45	00.09	<3.341	4.05	<2.848	<2.617	<2.674	12.26	70.23	6.16	<2.751	11.74	26.13	<4.938	<5.114	3.92	<2.646	<3.159	4.37	4.53	<2.632	<3.581	13.76	<2.835	<2.959	<2.967	68.33	<3.894	12.70	<2.480	7.20	<2.480	5.03	<2.554	3.39	4.88	<2.552	<2.683	3.33	<2.454	42.689	4.02	6.571	5	
	Zr	483524.70	485658.72	484689.39	485464.64	486069.10	483819.75	486248.53	485988.13	484959.00	485471.10	486002.56	484812.49	485481.50	480995.24	486731.70	486688.80	478976.99	483304.57	485808.50	486006.07	484547.05	486046.75	486770.73	485663.14	486243.38	484700.00	485930.33	486038.80	485818.03	484330.26	485936.15	485354.26	485255.98	485485.90	486U28.17 486427.70	485383.58	483488.91	485816.07	484330.01	485189.99	485764.97	486227.79	484932.72	485282.44	485304.95	496 590 50	486580.59	4600000.00	
	Αλ	1335.15	88.099	868.33	586.14 449.96	676.49	796.71	528.35	637.32	656.73	718.77	628.54	539.93	619.17	721.59	476.73	479.57	1165.91	962.01	696.34	579.03	813.44	629.09	454.93	673.17	563.79	763.94	643.32	585.91	617.75	819.36	00.999	637.84	730.96	664.45	539.39	641.18	937.96	629.69	827.86	644.94	620.54	594.99	747.83	662.18	667.09	504.67	501.67	20.00	
	٨	3816.16	1883.50	2450.65	1626.60	1855.03	2399.67	1520.46	1824.84	1753.82	1910.77	1843.27	1405.49	1648.58	3864.10	1399.94	1321.47	4028.34	2869.30	1989.10	1539.75	2486.99	1603.00	1393.37	1825.00	1603.27	2002.87	1946.41	1649.70	1725.72	2341.18	1861.63	1676.49	2306.55	2007.55	1590 75	1802.62	2908.15	1803.70	2341.99	1918.90	1621.93	1612.93	71/5.51	1889.56	2066.74	2157.1U	1455.06	20.0.00	
•	Π	155.26	100.09	112.14	115.42	91.65	141.70	56.17	68.18	90.12	102.59	99.29	63.13	99.01	103.34	67.37	92'.19	189.87	251.61	115.05	79.53	89.82	77.72	61.73	88.64	80.55	105.14	68.35	84.02	123.97	152.31	82.23	85.74	83.31	69.82	62.23	123.23	189.83	114.24	110.54	121.39	90.29	85.25	73.58	114.71	79.77	90.09	108.01	2	
	Tm	139.05	69.44	88.30	61.75	71.43	83.69	55.94	68.55	67.35	73.76	68.24	55.49	63.68	83.95	51.16	49.54	131.74	100.04	73.88	59.48	88.30	64.03	49.66	70.41	59.01	79.98	67.52	62.17	64.53	86.25	69.71	65.13	80.48	71.79	65.78	68.46	101.82	66.71	85.93	69.10	63.86	62.36	80.01	70.24	73.28	13.43	52.72	00.00	
	Th	89.55	47.95	49.34	52.72	40.96	80.52	21.84	27.63	44.80	42.96	46.51	21.61	43.55	47.69	28.86	29.48	168.34	230.75	56.73	31.18	42.49	26.46	26.38	34.27	35.84	45.49	38.93	35.78	64.56	83.16	34.24	31.14	46.74	29.72	39.57	60.40	120.91	62.79	47.85	68.28	35.32	35.02	50.13	52.59	36.71	03.33	28.59	00.00	
	Tb	20.14	9.93	12.54	8.15	9.56	15.70	8.27	9.82	8.97	9.62	10.28	7.38	7.96	65.89	7.94	6.83	25.86	16.79	10.68	7.64	14.41	7.70	7.43	9.77	8.56	10.28	11.52	8.50	9.13	12.24	9.16	7.89	14.32	11.62	9 10	9.60	15.52	9.79	12.26	10.56	8.26	8.06	90.	9.89	11.70	28.5	10.97	0.0	
	Та	0.38	0.71	0.60	0.78	0.63	0.88	0.43	0.40	0.40	0.78	0.70	0.57	0.73	0.57	0.46	0.43	1.13	1.19	0.89	0.64	0.36	0.71	0.39	0.63	0.59	0.63	0.36	0.61	0.64	0.84	0.52	0.70	0.38	0.43	0.40	0.76	1.09	99.0	0.57	0.79	0.71	0.68	0.80	0.76	0.41	0.48	0.50	5	
	Sm	7.45	2.58	3.79	1.88 1.88	2.13	16.33	2.38	2.94	2.62	2.45	2.54	4.90	2.14	134.82	1.90	1.74	12.76	4.49	2.79	1.58	4.47	1.93	2.01	3.63	2.26	2.43	3.49	2.30	2.28	3.26	2.52	1.79	4.62	3.64	2.88	1.79	4.87	2.62	3.11	3.30	1.96	2.19	2.70	2.59	3.49	4.02	28.1	ř	
	Pr	0.11	0.03	0.09	0.02	0.03	0.35	0.03	0.03	0.02	0.02	0.03	1.57	90.0	7.50	0.04	0.03	3.20	0.09	0.02	0.03	0.05	0.03	0.04	0.09	0.02	0.04	0.10	0.02	0.02	0.02	0.09	0.01	0.07	0.07	0.07	0.02	0.04	0.03	0.02	0.05	0.02	0.02	0.03	0.03	0.02	- 6	0.03	5	
	Pb	0.089	0.079	0.058	0.088	0.068	0.163	0.034	0.107	0.314	0.071	0.060	0.030	990.0	0.547	0.049	0.040	0.191	0.278	0.055	0.042	0.067	0.067	0.042	0.320	0.050	0.069	0.051	0.053	0.077	0.106	0.051	0.051	0.063	0.044	0.037	0.108	0.167	0.076	0.055	0.000	0.063	0.048	0.084	0.075	0.053	0.264	0.040	5	
	Ь	729.56	466.80	696.12	324.36	422.14	669.71	398.45	407.51	551.50	471.52	425.39	1307.92	453.25	1344.91	418.04	362.06	2344.59	640.91	459.11	417.21	583.54	423.29	427.14	397.86	424.02	702.62	469.92	393.87	454.86	606.25	422.53	511.29	363.81	478.18	394.59	501.86	99.602	473.54	854.44	546.88	460.44	429.37	547.14	516.70	508.82	370.47	3/0.4/	ţ.	
	ρN	2.91	0.70	0.93	0.62	0.72	99.7	0.43	0.93	99.0	0.61	0.68	9.56	0.81	98.59	0.62	0.63	21.16	1.43	0.67	0.45	1.24	0.44	0.77	1.32	0.69	0.62	1.15	0.54	0.54	0.80	1.08	0.53	1.07	1.46	0.57	0.65	1.36	0.63	1.08	1.00	0.51	0.55	0.74	0.79	1.9.0 2.0.5	5/:	0.02 1.06	<u> </u>	
	qN	1.49	2.29	2.57	 	2.26	3.57	1.43	1.38	1.24	2.43	2.26	2.01	2.34	1.99	1.77	1.75	09.9	4.30	2.64	2.13	1.39	2.16	1.60	2.07	2.07	2.35	1.32	1.95	2.14	2.63	2.20	2.26	1.12	1.39	25.1	2.34	4.01	2.34	184	2.79	2.06	2.21	7.97	2.60	80.7	50.1	, o. 1	3	
	Γn	281.38	136.90	177.08	123.19	140.03	162.78	108.62	130.39	139.82	149.59	129.54	113.90	129.07	137.68	95.39	98.78	229.22	183.90	138.67	123.27	163.24	134.81	93.73	142.87	116.94	154.63	128.75	120.99	122.95	161.93	139.03	136.96	147.05	137.55	127.83	129.99	194.38	128.15	167.14	133.38	129.64	123.87	48.45	135.97	138.53	132.69	134.74	5	
	La	0.008	0.003	0.209	0.006	0.021	0.067	0.019	0.010	0.002	<0.001	<0.001	3.021	0.142	0.942	0.027	0.019	5.695	0.003	0.002	0.005	<0.001	<0.001	0.015	0.033	0.004	0.002	0.085	0.001	<0.001	0.011	0.091	0.009	0.070	0.099	0.003	<0.001	0.039	0.003	<0.001	0.070	0.002	<0.001	<0.00	<0.001	0.029	0.043	0.024	0.00	
11	Н	118.33	60.83	77.11	38.20	60.73	78.58	49.88	60.01	56.22	62.31	61.65	45.84	52.58	118.88	46.01	43.65	133.59	93.28	63.15	49.55	81.93	50.56	45.07	59.37	52.74	64.13	63.26	53.43	96'29	76.61	59.29	53.02	77.16	09.99	52.84	59.39	94.02	58.87	76.67	64.22	53.56	52.60	0.75	61.20	74.04	45.17	61.14	t 5	
I	Hf	8502.39	10539.06	10025.24	11382.27	10139.37	11180.38	10778.82	10424.42	11480.71	10656.98	10289.11	10408.08	11133.13	10417.62	10337.17	10642.37	9925.69	10851.52	10112.72	10907.30	10511.83	10687.67	10301.73	10797.23	10492.14	10842.40	10097.82	10728.25	10634.20	10894.24	10229.85	11229.08	10522.36	10558.36	10454.05	10935.30	10554.47	10456.41	10293.39	10847.71	10915.27	10437.64	10655.67	10881.55	10606.01	10614.03	10535.69	10/ 20:40	đ
	рĐ	55.62	24.95	30.18	20.90	24.07	48.59	19.49	25.14	21.50	22.98	25.92	19.32	18.69	321.41	20.23	17.57	71.50	44.44									29.68		22.94					29.18	23.61	23.87	39.18	23.92	29.21	26.71	20.23	19.58	29.20	23.15	07.70	37.79	27.73	27.13	ndd u
	Eu	1.96	0.46	0.58	0.33	0.46	3.64	0.37	0.56	0.56	0.36	0.46	0.47	0.32	29.00	0.35	0.27	1.05	0.75	0.40	0.31	99.0	0.29	0.30	1.00	0.48	0.34	0.59	0.41	0.37	0.49	0.49	0.21	0.79	0.64	0.59	0.39	99.0	0.48	0.48	0.41	0.35	0.41	0.50	0.37	0.33	\$ C	1.56	3	are
	Er	632.67	322.79	409.19	280.28 211.78	323.56	405.09	263.08	312.99	303.69	332.94	321.53	248.68	287.28	464.47	238.83	229.28	628.99	486.06	341.89	275.65	420.24	284.40	240.07	319.60	278.91	358.83	330.10	292.30	303.71	400.29	318.56	294.35	389.47	345.95	312.79	313.45	485.67	313.64	405.82	333.22	288.29	282.50	3/1.08	321.78	345.56	356.08	252.07	020.11	"All elements are in ppm.
	Dy	293.56	143.66	179.72	119.89	137.94	194.81	116.35	143.46	131.27	143.19	143.18	107.04	121.09	481.29	109.39	102.65	338.41	232.51	158.93	113.72	201.97	114.97	107.01	139.17	125.39	158.90	157.37	126.91	133.35	178.15	136.23	123.79	192.33	161.02	145.93	137.36	225.78	137.08	180.81	151.83	121.94	124.56	61.17	143.95	164.19	183.79	112.35	145.00	III ele
	Ce	8.24	6.61	7.59	7.10 3.86	6.37	10.31	3.64	4.39	5.62	6.26	6.89	14.05	69.9	19.60	4.08	4.63	30.65	14.67	7.97	5.25	5.05	2.07	4.09	5.69	5.05	6.18	4.33	99.5	6.46	60.6	6.41	5.42	5.81	4.93	3.92	7.12	11.10	98.9	5.29	7.70	6.30	6.03	8.62	7.75	4.74	0.40		3,0	,*
	Analysis ID	SINA-01 z16	SINA-01 z19	SINA-01 z2	SINA-01 z20	SINA-01 z22	SINA-01 z23	SINA-01 z24	SINA-01 z25	SINA-01 z27	SINA-01 z29	SINA-01 z30	SINA-01 z31	SINA-01 z32	SINA-01 z33	SINA-01 z34	SINA-01 z4	SINA-01 z5	SINA-01 z6	SINA-01 z7	SINA-01 z8	SINA-01 z9	SINA-02 z1	SINA-02 z10	SINA-02 z11	SINA-02 z12	SINA-02 z14	SINA-02 z15	SINA-02 z17	SINA-02 z18	SINA-02 z19	SINA-02 z2	SINA-02 z20	SINA-02 z21	SINA-02 z22	SINA-02 223	SINA-02 z25	SINA-02 z26	SINA-02 z27	SINA-02 z29	SINA-02 z3	SINA-02 z30	SINA-02 z31	SINA-02 Z33	SINA-02 z34	SINA-02 235	SINA-02 24	SINA-02 26	17 70-VAIIO	

Appendix C: Eastern Sunda arc zircon trace element chemistry

							1												,					
Analysis ID	Ce	ρ	Ēŗ	Eu	P9	ŧ	유	La	Ľ	q	PN	_											Fe	F
SINA-02 z8	4.92	156.06	340.21	0.59	28.78	10415.94		0.004	140.78	1.58	0.84	427.49										485701.53	3.25	2.76
SINA-02 z9	5.65	152.28	358.14	0.36	25.51	10693.51		0.003	157.07	2.15	0.56	691.69											<2.781	2.54
LB010_z_3	22.45	546.40	1027.87	2.09	115.23	9858.62	(4	0.108	328.26	2.21	5.41	945.79								7 6452.02			885.76	10.90
LB011_z_1	10.19	102.22	213.95	0.76	20.20	9880.58		<0.003	87.81	0.94	1.12	387.55										•	<2.638	9.97
LB011_z_3	6.03	78.57	203.07	0.36	12.17	10402.10		0.003	118.67	0.84	0.44	467.40										•	2.91	4.08
LB043_z_1	7.49	74.49	155.30	1.15	17.82	9985.01		0.169	84.01	0.57	1.86	338.88										4	34.98	8.05
LB043_z_10	9.42	66.84	176.80	0.76	12.74	9505.33		0.011	104.72	1.28	0.50	281.90										•	16.24	8.39
LB043_z_2	7.57	61.70	140.54	0.76	12.69	9706.32		0.070	81.45	0.74	1.08	260.78										4	<2.628	5.40
LB043_z_3	11.59	97.35	223.41	4.	21.15	9479.26		<0.003	124.82	1.15	1.84	302.54										•	<2.631	8.97
LB043_z_4	10.29	69.95	184.43	0.80	13.82	9576.56		0.018	110.57	1.25	0.47	276.05										•	<5.812	8.66
LB043_z_5	15.34	105.23	269.62	1.28	22.29	10209.51		0.028	147.94	1.96	1.33	303.24										4	<7.975	7.16
LB043_z_6	4.90	29.03	69.61	0.31	5.92	9744.01		0.014	44.04	0.62	0.53	187.36										•	3.50	6.67
LB043_z_7	3.83	28.56	70.69	0.42	5.79	10098.88		<0.003	44.94	0.43	0.28	153.24										•	<2.574	5.09
LB043_z_8	6.57	56.52	133.56	0.83	12.14	9777.93		<0.003	78.70	0.55	0.81	254.58										4	<2.568	5.52
LB043_z_9	14.35	125.23	268.63	1.67	32.97	10219.49	51.02	0.634	139.04	1.10	3.39	550.33										485976.81	<6.251	6.34
LB044_z_1	227.80	805.59	554.72	10.14	513.90	10719.33	_	3.459	70.76	5.56	313.10	1119.09										•	<5.688	21.65
LB044_z_2	59.63	530.99	792.55	1.07	148.96	10299.58	185.91	0.059	182.68	4.84	8.34	1112.05										•	<5.580	25.28
LB044_z_3	1.93	50.11	123.75	0.41	8.59	9301.93	21.47	<0.003	72.10	0.44	0.20	206.11										•	<2.588	10.22
LB044_z_4	53.42	218.16	164.46	2.81	141.21	10871.26		0.374	25.83	1.02	46.15	399.11											69.17	14.08
LB044_z_5	16.13	287.70	603.77	3.10	69.02	9075.88		0.632	261.01	1.10	5.65	689.89											788.64	28.05
LB010_z_1	19.01	316.61	96.059	1.13	66.22	9735.44		0.008	225.77	2.07	1.92	782.87										482380.11	<6.380	10.14
LB010_z_2	25.20	409.42	807.10	1.40	82.83	9641.34	165.99	0.013	275.47	2.56	3.72	1064.08											<5.908	11.55
LB010_z_4	25.05	471.18	981.23	1.43	99.00	12631.19		0.028	386.48	2.00	4.27	1088.19											17.11	4.35
LB010_z_5	99.19	655.22	1187.71	4.90	163.78	9242.14	•	2.710	401.49	4.08	13.36	1427.19											1176.43	12.63
LB010_z_6	389.55	382.00	461.13	18.85	162.65	10761.33	_	67.856	135.54	8.63	210.07	09.699											3633.60	81.30
LB011_z_2	7.72	143.00	289.82	1.37	33.37	9520.25		<0.006	112.89	0.76	2.13	441.63											<5.992	9.18
LB011_z_4	17.00	300.38	542.25	3.16	75.81	9320.52		0.018	192.41	1.15	4.95	552.09											<6.078	10.80
LB011_z_5	18.53	299.79	564.92	2.83	73.76	9310.01		0.037	190.14	1.59	4.50	585.40										483834.03	54.09	13.47
LB011_z_6	9.84	122.32	309.68	0.59	21.72	11619.80		0.310	161.38	2.41	1.17	660.55											178.61	6.41
LB011_z_7	5.87	87.48	185.58	0.89	19.45	9079.55		0.304	77.07	0.84	1.41	563.24											26.12	11.33
NEF-01_z_1	8.70	47.20	115.44	0.38	7.16	10062.23		0.010	45.98	1.15	0.30	227.86											<7.305	2.92
NEF-01_z_2	68.31	360.06	807.70	2.11	72.34	11143.40		0.226	327.84	00.9	3.43	584.40											951.37	8.65
NEF-01_z_3	318.82	1004.49	1747.61	5.24	279.12	10307.12	.,	0.977	530.93	16.78	23.99	1821.84								•		462001.54	1696.43	22.98
NEF-03_z_1	40.15	452.66	952.51	0.49	95.42	12919.54	•	0.320	382.34	15.25	5.74	1874.31											944.24	20.95
NEF-03_z_2	15.23	305.87	822.42	1.0	67.10	10026.22	_	0.230	429.01	11.74	6.31	1625.43								5 4569.10			1873.42	56.19
NEF-03_Z_3	12.59	747.95	471.28	0.18	18.18	10300.29	72.27	0.222	305.82	8.00	0.97	983.54										468245.97	11150.52	35.32
NEE-03 2 5	63.96	542.66	1164 17	1.45	114.20	9138 92		0.050	482.08	2 2 2	10.88	1427 18											167.73	7.67
NEF-03 z 6	18.40	261.30	582.32	1.72	62.60	11083.88		0.423	277.65	10.55	4.79	1243.68											9836.91	54.79
NEF-03 z 7	17.66	177.67	547.53	0.17	23.61	12562.15	85.90	0.195	347.02	13.59	1.75	1000.64										478635.41	1077.22	8.85
NEF-03_Z_8	36.80	394.20	926.88	0.26	63.50	14953.03	169.93	0.050	410.22	15.73	1.89	1569.42										-	73.18	3.06
NEF-03_z_9	27.80	255.85	770.26	0.19	38.48	15079.88	125.99	0.263	458.09	28.42	2.35	1585.18										4	1080.22	21.80
SEF-01_z_1	6.75	72.99	155.59	0.56	13.29	9668.57	30.16	0.010	69.99	0.88	96.0	270.86										7	678.97	43.56
SEF-01_z_10	23.89	251.72	454.72	3.40	66.27	8278.74		0.022	151.98	1.46	4.59	453.81										•	<5.610	19.27
SEF-01_z_11	14.45	136.01	249.71	2.25	40.06	8370.53		0.028	99.91	0.81	4.86	265.01										1	<5.747	14.88
SEF-01_z_12	6.42	54.68	148.95	0.69	11.29	7977.40		0.066	92.54	1.03	0.88	233.00										•	173.37	40.40
SEF-01_z_13	25.47	375.56	624.10	4.95	93.83	7418.89	132.59	0.022	191.34	1.62	4.78	601.84										483957.06	<2.629	18.15
SEF-01_z_14	16.87	210.56	396.20	2.96	54.79	8319.36		0.027	147.03	0.98	4.30	386.26	0.230	0.23	9.17 0.22	22 17.97	97 300.39	39 80.42	147.04	4 2574.52	2 734.44	•	<5.682	13.51
SEF-01_z_15	4.86	40.13	94.61	0.65	8.94	7794.03	17.58	<0.007	50.53	0.45	0.56	205.32										4	<5.765	14.09
SEF-01_z_16	12.14	125.84	296.29	1.29	23.32	7446.54	56.44	<0.007	132.54	1.09	1.42	426.56										487798.31	<5.774	18.70
		*AII	elements are in ppm.	nts a	re in J	ppm.																		

Appendix C: Eastern Sunda arc zircon trace element chemistry

Analysis ID	S	۵	ù	ā	PB	Ŧ	£ 2	5	3	£	Z	۵	8	à	ES .	<u></u>	4 <u>1</u>	<u>_</u>	, =	>	£	ž	G.	F
SEE.01 7 17	07 1/0	325.74	575.67	δ	06.30	7601 41	7		22 4 22	1 53	7 38	500 85	0.447	┨`	١.	-	-	-	š	-		A84216 43	75.768	, t
SEF-01_2_1/ SEF-01_2_18	23.85	256.94	455.84	4.59	76.34	7309.39			167.76	5.13	7.75	418.61	0.305	0.38		0.36 22	22.22 424.32			3027.69		486162.95	<6.412	18.18
SEF-01 z 2	14.91	149.00	337.47	2.18	33.35	7933.31			159.27	0.85	3.31	350.14	0.236									487229.41	51.13	18.89
SEF-01_z_3	5.17	61.28	134.73	1.08	12.90	8725.94			77.05	0.51	1.12	202.12	0.039									489231.45	<2.624	5.23
SEF-01_z_4	16.50	243.94	464.43	2.76	61.56	8929.85			179.41	1.22	4.78	457.23	0.162	0.27			N			N		485084.00	5.70	12.33
SEF-01_z_5	8.13	96.48	191.93	2.30	23.37	7690.53			94.38	0.47	2.79	204.51	0.126		4.88 0.		7.67 193.53	53 42.56	56 143.78			489216.18	<2.637	14.65
SEF-01_z_6	18.56	291.18	490.46	3.45	75.62	7297.16	_		160.04	06:0	6.79	424.38	0.233				.,					485844.96	<2.609	18.45
SEF-01_z_7	15.42	213.65	417.57	1.99	55.64	9139.83			148.19	0.89	4.18	394.08	0.266			0.25 17	17.56 266.00		_	8 2685.38	3 755.97	485508.90	26.76	16.93
SEF-01_z_8	7.00	84.58	184.17	06:0	17.41	8723.12			81.27	0.72	1.18	278.94	990.0									488585.14	16.11	13.42
SEF-01_z_9	11.23	156.49	303.45	2.56	39.62	8530.63			119.62	0.59	3.68	313.90	0.142				13.25 186.76		_	_		487321.37	9.90	13.53
SEF-02_z_1	5.97	53.16	134.59	0.64	9.67	8340.83			84.16	0.87	0.44	185.67	0.049	0.03	1.28 0.			40.13 32.83				489568.08	<2.570	6.86
SEF-02_z_2	7.56	61.37	165.81	0.91	11.37	8605.84			104.84	0.83	0.58	216.29	0.057								9 432.10	488980.55	<5.902	6.51
SEF-02_z_3	5.76	75.04	158.20	45.5	16.94	8559.37		•	83.49	0.49	1.77	163.69	0.066				,					489197.66	3.55	4.94
SINA-04-Z-1	42.74	1/8/10	390.35	0.60	34.40	10309.91			149.52	3.02	3.88	933.95	0.168				.03 124.85			127722 0		484211.60	13.35	3.11
SINA-04_Z_10	20.00	51.13	787.57	0.42	70.57	10435.95		v	40.711	7.72	0.79	463.88	0.107								5/5.23	4861/3.36	67.7	3.73
SINA-04_z_12	7.88	159.86	343.77	0.54	28.11	10162.64	67.18	0.235	133.94	2.30	1.37	535.40	3.454		3.00							485610.87	16.59	3.35
SINA-04_Z_13	6.45	207.60	443.05	0.67	37.75	10523.57			1/1.98	1.90	9 1	/9./69	0.495									4841/6.59	<2.621	2.86
SINA-04_Z_14	21.8	248.70	530.15	0.57	44.52	10351.50	_		207.52	2.33	20.5	986.20	1.158		0.00							483010.91	<3.120 99.94	2.52
SINA-04_Z_15	90.4	123.28	207.19	4 6	21.80	10430.01			27.211		\$ i	463.60	0.059						55.50 62.52		552.18	486255.23	32.01	3.51
SINA-04-2-16	04.7	124.00	330.73	64.0	24.07	10101.21	50.24	0.020	144.63	20.1	10.2	10.770	0 1 20									465304.9/	47.7	9.00
SINA-04-2-17	0.70	200.00	00.272	0.39	0.12	1067200			50	26	9. 5	0.040	7 144						•		•	400433.70	44.45	00.2
01147-04-Z-10	0.0	200.09	402.00	5 5	1.00	00.2.30			475.00	j 0	20 1	02.000	0.300									403340.17	7 7	66.0
SINA-04-Z-19	8.60	210.38	25.744	 8	92.14	9526.23			175.90	2.38	S 6	432.23	1.301					61.93 93.7			3 884.12	485235.33	7.4.0	4.06
SINA-04-2-2	5.0	130.30	2000.	0.40	00.72	10007			102.03	20.7	05.3	000.00	0.427									404620.03	10.01	3.09
SINA-04_Z_20	0.00	23630	76 76	0.40	20.93	8175 76			223.14	2.32 1.46	5 <del>-</del>	330.03	0.241						•		•	465 161.31	37.46	00.4 7 0.4
SINA-04 7 22	8 8	103 99	251.76	8 8	2 2 2	11006.87		٧	116.06	9 9	3.0	737.82	0.087									485425.93	90	- 4. - 4.
SINA-04 z 23	15.40	234.09	469.06	1.21	46.76	9728.58			175.45	1.84	12.77	1437.60	3.530		8.05		17.60 55.63	63 95.65			882.38	482913.41	21.66	2.56
SINA-04 z 24	5.04	173.96	359.25	0.67	31.69	10362.71		٧	142.02	1.26	1.12	387.34	0.269						37 82.20			485641.85	<2.962	2.62
SINA-04_z_25	10.60	196.81	418.29	0.75	33.75	10618.97	81.14	0.051	166.57	3.00	1.27	626.97	6.298									484174.09	4.17	4.75
SINA-04_z_26	15.94	259.96	574.17	0.47	43.66	11479.66	108.19	0.033	241.24	4.83	1.32	779.61	0.268				_		.,			481707.80	3.48	2.92
SINA-04_z_27	5.17	148.53	322.57	0.54	26.05	10508.56			128.61	1.50	96.0	489.19	0.118								635.27	485668.50	17.51	5.69
SINA-04_z_28	4.93	137.12	293.15	0.48	24.13	10510.99			119.58	1.38	0.74	375.15	0.182		2.80 0.							486156.91	4.73	2.46
SINA-04_z_29	34.68	191.44	412.18	0.83	39.78	10818.24			166.31	3.13	27.57	2186.76	0.189	•					31 139.31		832.75	481032.75	27.06	3.17
SINA-04_z_3	4.92	197.33	410.16	0.78	35.48	10081.26			158.30	1.25	1.30	259.67	0.092									485021.46	<2.765	2.55
SINA-04_z_31	2.38	121.59	294.88	0.44	18.21	10436.14	52.51	0.126	135.74	2.10	0.79	399.11	0.220	0.05	2.56 0.	0.63 8	8.24 26.	26.62 66.11	11 77.32	2 1639.88	9655.89	486205.48	<2.835	4.70
SINA-04 z 34	6.33	133.80	304.12	0.43	21.89	10381.09			130.92	2.04	0.88	444.85	0.176									486026.48	<2.586	321
SINA-04 z 35	23.94	167.24	345.06	1.08	33.92	10251.91			133.62	1.82	19.79	2043.34	0.180		8.58							482474.99	29.23	3.42
SINA-04_z_36	6.40	188.81	386.84	0.62	35.34	10250.90			146.64	1.69	1.91	506.95	0.144						13 90.09			485188.38	<2.521	2.49
SINA-04_z_37	69.9	140.09	324.46	0.26	22.84	10768.04	60.39	<0.002	144.82	2.47	0.50	475.74	0.469									485470.40	<2.542	3.53
SINA-04_z_4	5.00	144.88	332.06	0.48	23.74	10024.91			138.23	2.25	1.38	508.56	0.036									485973.55	<2.590	3.38
SINA-04_z_5	8.59	218.90	455.24	0.79	38.79	10380.23	88.87		173.45	2.57	1.40	545.14	0.232					66.97 94.3	•	8 2716.65		484320.12	12.46	2.67
SINA-04_z_6	8.15	155.02	352.16	0.45	24.44	10654.44	66.20		152.42	2.81	0.45	473.68	0.196	90.0		0.86 10	10.39 57.					485192.54	12.03	4.41
SINA-04_z_7	9.59	156.14	351.12	0.81	26.87	10348.51	65.68		156.94	2.10	1.02	454.38	0.190				_		•	4 2077.22		485297.59	76.75	9.02
SINA-04_z_8	6.67	140.31	308.26	0.51	23.95	10980.17	57.87	v	127.49	1.83	0.73	453.06	0.586									485517.77	<2.584	2.97
SINA-04_z_9	21.52	242.53	463.10	1.24	20.80	9777.51	95.37		164.96	3.66	12.90	2247.38	0.244			0.73 19	19.09 132.00		12 139.47	••	_	481081.62	65.31	4.78
SINA-05_z_1	3.39	99.80	229.01	0.27	16.51	10426.88	42.80		96.42	1.63	99.0	349.11	0.047									486949.20	<2.904	3.13
SINA-05_z_10	3.87	100.71	240.20	0.24	16.60	10604.67	43.16		110.46	1.54	0.32	346.77	0.035									486684.03	<2.584	3.05
SINA-05_z_11	4.7	127.96	274.28	0.46	22.11	10737.36	52.26	0.282	106.52	1.66	1.55	481.23	0.047	0.15	2.75 0.	0.55	9.23 25.	25.84 58.15	15 62.55	5 1557.19	533.23	486042.57	<2.897	2.87
	¥,	*All elements are in ppm.	nents	are	in pp	Ħ.																		

Appendix C: Eastern Sunda arc zircon trace element chemistry

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Analysis ID	రి	ολ	ù	En	gg	±	운	Га	3	Q N	PN	₫.	Ъ	ŗ	Sm	-					<b>~</b>	Λb	Zr	Fe	F
SINA-05_z_12	113.89	161.09	318.60	2.24	61.17	9594.08	63.86	37.722	128.98	2.19	115.42	12904.55	0.080	19.56	35.50	0.54 1				90.68 18		622.77	461371.13	149.67	4.49
SINA-05_z_13	6.70	160.93	344.30	0.50	28.03	11206.56	66.12	0.037	142.26	1.61	0.73	485.21	0.060	0.02	3.52				•			00.769	484892.99	<2.587	2.72
SINA-05_z_15	5.20	113.18	251.97	0.34	19.03	10528.55	47.77	0.042	109.09	1.64	0.73	383.57	0.044	0.04	2.16			35.51				530.25	486513.50	<2.598	3.03
SINA-05_z_16	5.73	152.14	325.58	0.50	25.47	10300.64	63.15	0.013	128.29	2.24	0.84	416.40	0.057	0.02	2.72							640.54	485945.80	<2.570	3.08
SINA-05_z_17	5.12	131.64	301.67	0.46	23.41	9872.43	57.59	0.112	125.80	1.62	1.31	448.47	0.075	0.08	2.59		9.52			78.90 17	1731.71	611.48	486452.12	<5.783	2.91
SINA-05_z_18	11.44	235.29	448.13	0.77	46.10	10151.07	91.35	0.489	163.68	3.70	3.03	722.44	0.182	0.23	5.56				90.26 13				483849.29	193.29	17.44
SINA-05_z_19	26.79	227.88	471.36	0.81	44.19	10948.79	92.15	4.391	183.50	4.03	14.01	1905.20	1.674	2.33	7.87							918.60		19.50	4.00
SINA-05_z_2	2.90	140.99	303.79	0.41	24.88	10359.14	57.48	0.150	125.86	1.97	96.0	468.72	0.043	0.12	2.77							607.43		<2.630	2.74
SINA-05_z_20	6.14	218.38	440.57	1.16	41.58	10327.79	87.51	0.063	167.11	1.70	3.00	572.90	0.074	0.17	6.57							840.95		<2.568	2.59
SINA-05_z_21	6.14	219.04	431.15	1.20	43.29	10234.01	84.10	0.042	157.21	1.23	2.35	394.64	0.088	0.13	6.19							804.64		14.99	2.87
SINA-05_z_22	3.45	117.21	255.59	0.44	21.00	10531.22	49.51	<0.002	103.93	1.13	0.44	289.36	0.026	0.01	2.21	0.38						513.15		<2.625	2.57
SINA-05_z_23	6.57	129.50	301.91	0.37	20.65	11073.73	55.84	0.020	132.67	2.15	0.61	459.54	0.099	0.03	2.51							639.52		<2.630	3.07
SINA-05_z_24	4.46	116.84	287.12	0.25	17.49	11076.11	51.51	<0.003	136.33	1.58	0.46	533.86	0.052	0.02	1.75									<2.656	2.38
SINA-05_z_25	2.97	153.93	359.48	0.51	24.89	10378.44	66.03	0.028	158.28	2.38	1.04	413.95	0.049	0.05	2.72									<2.676	3.17
SINA-05_z_26	6.43	127.54	316.29	0.34	21.51	10602.90	56.55	<0.006	139.01	2.51	0.73	487.41	0.072	0.03	2.12									<5.803	3.56
SINA-05_z_27	5.13	114.06	251.35	0.38	19.95	10294.92	48.03	<0.006	102.17	1.71	0.61	393.06	0.093	0.01	2.13							509.17	486704.70	<5.680	2.93
SINA-05_z_28	13.58	259.15	567.18	0.64	48.20	10309.30	108.62	0.090	217.00	4.08	1.82	715.48	0.179	90.0	4.91									<7.695	3.63
SINA-05_z_29	09.9	170.03	352.20	0.57	30.85	10409.11	68.75	0.004	141.71	2.23	98.0	402.76	0.073	0.03	3.03								485586.04	<2.584	2.89
SINA-05_z_3	9.47	408.25	825.40	1.75	80.43	9617.70	160.39	0.042	311.42	2.40	3.83	972.41	0.165	0.18	11.13							550.01	480428.13	19.67	5.11
SINA-05_z_30	7.80	211.28	414.92	0.74	41.37	10154.14	83.33	0.445	149.34	2.02	2.49	601.79	0.136	0.28	5.47							749.27	484740.88	21.29	4.50
SINA-05_z_31	5.87	140.17	331.55	0.41	23.50	10946.58	60.71	0.093	148.60	2.31	0.74	501.55	0.052	0.05	2.84									<2.587	2.43
SINA-05_z_32	5.22	183.99	384.60	0.64	35.29	10759.56	74.76	0.045	149.45	1.01	1.05	398.69	0.050	0.04	3.72								485062.60	<2.611	2.49
SINA-05_z_33	7.14	188.64	497.85	0.47	32.93	10256.63	86.31	0.503	278.06	8.99	4.09	761.31	0.380	98.0	5.19									136.46	13.93
SINA-05_z_34	6.73	162.03	382.10	0.32	28.21	10571.54	70.73	0.050	160.60	1.98	1.31	698.42	0.053	0.07	3.37									<5.826	3.61
SINA-05_z_35	4.47	95.49	225.94	0.31	16.79	10390.07	42.06	0.008	97.00	1.37	0.53	408.48	0.045	0.02	1.75								486847.25	<5.724	2.39
SINA-05_z_36	11.37	196.17	456.72	0.49	35.02	10653.02	88.33	<0.006	182.60	3.78	1.27	712.74	0.129	0.03	3.30									<5.776	3.14
SINA-05_z_37	5.46	120.60	306.88	0.38	19.44	10646.12	54.60	<0.006	135.12	2.11	0.55	463.84	0.069	0.04	1.91									<5.685	2.84
SINA-05_z_38	7.04	138.82	332.87	0.41	21.18	10639.57	60.93	0.145	149.90	2.44	0.98	68.909	0.417	0.12	2.03	0.70							485246.72	<3.795	3.15
SINA-05_z_39	4.46	154.62	320.80	0.79	28.37	10428.03	62.36	<0.003	121.45	0.99	0.81	319.34	0.046	0.02	3.56									<2.987	2.58
SINA-05_z_4	5.36	120.34	283.54	0.29	18.17	11049.79	51.15	0.006	126.41	5.04	0.51	375.65	0.050	0.02	1.89								485875.32	<2.648	3.24
SINA-05_z_40	5.94	143.93	351.05	0.35	22.43	10471.03	63.03	0.002	158.56	2.76	0.46	432.77	0.040	0.01	2.19									<2.553	3.27
SINA-05_z_41	15.30	325.85	627.24	1.42	61.55	9355.89	126.22	0.004	229.37	5.07	1.69	915.21	0.306	0.07	7.65									<2.534	2.00
SINA-05_z_5	2.60	163.81	351.41	0.53	28.42	11090.67	66.82	0.003	142.84	1.06	0.76	468.30	0.049	0.02	3.02									<2.590	2.72
SINA-05_z_6	4.29	127.09	282.60	0.42	21.62	10709.45	53.75	<0.003	111.00	1.37	0.55	397.66	960.0	0.03	2.37									<3.128	2.49
SINA-05_z_7	7.76	232.63	472.89	0.99	42.55	9409.96	92.88	0.074	175.71	3.10	<del>2</del> 6:	764.19	0.127	0.07	4.54									<2.569	3.02
SINA-05_z_8	47.32	172.11	354.18	1.41	42.43	10854.45	67.90	13.796	139.92	1.33	42.34	4687.49	0.079	7.27	15.71						2056.23			133.00	4.10
SINA-05_2 9	50.07	106.04	195.73	00.1	32.07	10220.09	00.00	0.151	230.50	2.03 1 96	9.49	1001 70	0.300	54.0	3.45	70.0		102 23	100.43				479532.55	72.303 118 81	2 63 6
SING-01 2 2	20.5	75.63	180.72	3 6	2 5	10617.34	32.55	0.050	20.00	3 5	0.30	320.02	0.500	5 5	4 4									20.00	20.00
SING-01 2 3	3.92	207.04	443.59	100	33.41	10041.21	86.00	0.004	181.27	0.68	1.25	775.55	0.027	0.02	3.47						2630.78			54.82	5.17
SING-01 z 4	14.16	159.16	400.74	0.94	26.86	10155.89	72.17	<0.007	192.51	2.04	1.06	579.49	0.237	9.0	3.37							877.09		<5.912	5.82
SING-02_z_1	5.01	29.00	136.65	1.02	12.66	69.0696	24.92	0.004	80.24	0.68	1.23	261.25	0.019	90.0	1.93							336.23		<2.660	6.73
SING-02_z_10	4.57	50.75	118.78	0.84	9.62	9957.23	21.24	0.028	72.78	0.61	0.61	273.66	0.010	90.0	1.42							304.42	_	5.56	5.44
SING-02_z_11	8.98	104.08	246.15	1.31	18.75	9501.21	44.25	<0.003	139.66	1.24	0.93	411.70	0.032	90.0	2.32							591.86	487098.60	3.94	8.82
SING-02_z_12	2.58	28.10	65.54	0.41	5.18	10537.63	11.68	0.021	42.37	0.40	0.34	202.21	0.197	0.02	0.78							177.21	488489.27	88.40	4.87
SING-02_z_13	2.60	21.04	49.20	0.58	4.60	10082.33	8.75	0.045	31.29	0.36	1.02	229.04	0.041	0.12	1.50						301.46	127.11	489058.56	<6.162	5.87
SING-02_z_14	15.14	151.76	304.05	2.85	39.53	9769.62	59.19	0.028	149.20	1.17	2.86	509.50	0.120	0.15	99.9		13.05 1;			•	34.10	654.36	485719.27	225.14	10.52
SING-02_z_15	3.45	39.41	93.08	0.71	8.93	10581.36	16.27	<0.007	61.11	0.41	0.47	289.47	<0.014	0.03	1.21				_			241.88	488109.26	<5.976	3.23
SING-02_z_16	12.10	121.22	296.16	1.23	22.75	9809.51	54.56	0.008	167.97	1.70	1.19	571.13	0.055	90.0	2.38	0.48		81.28		_		708.82	485987.80	<5.977	10.07
SING-02_z_17	4.00	45.64	108.80	0.67	8.18	9596.80	18.74	0.025	71.51	0.59	0.78	229.31	0.048	0.04	1.18	0.19	3.01	7.03	26.51	33.88 6	656.30	291.30	488809.07	<2.683	7.19
	*	II eler	*All elements are in ppm.	are i	n pp	'n,																			
	I I	1																							

Appendix C: Eastern Sunda arc zircon trace element chemistry

	Ι	7.13	7.80	11.78	5.78	5.47	8.49	5.39	3.88	9.82	6.71	5.49	3.75	7.22	6.20	7.31	13.33	4.80	6.08	0.04 40.04	4.06	22.0	4.84	19.08	7.61	5.95	8.85	5.38	4.25	4.63	3.74	6.70	5.08	7.95 CD 4	4.54	5.97	6.82	7.30	5.13	6.97	6.04	4.40	3.96	10.26	4.89	4.33	7.99	
	Fe	<2.662	<2.644	185.41	<2.653	<2.650	2.91	15.76	6.23	6.35	4.42	3.44	4.34	5.11	58.03	67.25	4.97	7.40	10.94	10.004	18.56	7 2 2 2	<2.536	49.94	<3.477	3.09	<3.466	<2.487	<2.544	<2.584	33.49	3.00	<2.567	<2.556 <2.580	4.06	<2.583	<3.165	<2.553	43.44	<2.519	or.75 <2.565	3.28	<2.549	223.64	3.96	24.90	<2.548	
	Zr	487607.54	487166.74	487697.43	488642.31	488774.91	487073.46	489113.38	488492.38	486394.54	488388.81	488838.23	488649.07	487619.73	487305.75	487982.94	486642.49	488774.84	488742.56	4007 00.37	488335.01	488039.47	488454.81	488425.27	487881.25	487503.37	487140.87	488969.26	488493.72	488430.88	487285.08	488126.02	488346.23	488130.48	488844.58	488347.68	487555.78	487275.95	488859.50	488336.25	487960.51	488768.95	488860.63	488450.19	488267.66	488206.51	487595.01	
	Αλ	442.93	486.66	438.42	239.59	204.77	569.54	144.85	205.39	776.86	342.06	195.56	153.59	493.05	509.68	409.46	681.90	173.54	249.01	252 12	234.73	420.35	204.53	301.94	496.63	350.45	587.88	244.01	179.42	225.45	260.58	356.32	239.43	179.60	126.85	306.60	447.02	518.41	249.51	373.26	390.73	163.28	100.10	280.94	275.26	229.71	522.79	
	Υ	1118.41	1187.36	1133.39	552.91	492.99	1363.49	359.27	477.85	2034.22	793.01	428.39	341.98	1262.50	1370.87	959.19	1820.60	379.39	611.26	44.720	407.44	1103 37	462.04	673.26	1302.08	816.50	1420.48	537.26	413.37	554.99	556.41	824.47	609.15	1066.48 407.69	280.59	700.78	1065.84	1163.40	523.04	893.38	966 14	368.47	224.93	674.74	590.19	524.06	1277.59	
,	n	68.63	81.39	54.96	30.49	25.19	84.54	16.09	27.34		42.90	24.66	14.41	64.64	63.69	48.23	98.37	23.89	27.05	73.07	20.05	56.00	34.94	44.30	65.42	60.37	94.05	28.62	23.72	26.68	47.29	44.37	26.92	24.95	22.82	40.82	58.84	81.69	26.60	46.33	45.57	16.31	25.45	33.10	34.70	32.88	68.82	
	Tm	41.66	44.90	41.56	21.90	18.86	52.27	13.42	18.03	73.22	30.87	17.16	13.65	46.56	49.13	36.51	65.84	15.25	22.94	20.00	20.44	30.01	18.56	27.61	47.71	31.96	54.83	21.91	16.21	20.68	22.82	32.99	22.49	42.31 16.18	11.11	28.11	41.42	46.47	21.71	34.56	36.26	14.83	9.14	25.76	23.80	20.47	47.95	
	Th	45.80	44.07	39.47	17.17	15.82	49.02	8.39	13.36	75.69	20.75	10.92	5.55	45.44	54.22	26.31	76.75	12.11	15.46	10.45	11.07	30.52	39.32	26.97	48.73	33.20	64.45	12.19	11.21	14.86	19.30	21.99	16.77	29.37 15.06	12.07	20.70	32.82	41.72	10.90	25.24	29 18	6.55	12.14	21.41	14.10	16.77	42.28	
	Тb	5.47	5.47	6.12	2.78	2.58	6.16	2.06	2.50	9.64	3.58	2.00	1.74	6.39	8.77	4.54	9.30	1.93	8.48	06.2	23.0	B 57	2.22	2.97	7.73	3.90	7.07	2.53	2.25	3.35	2.54	3.72	3.69	75.4	1.39	3.27	4.86	5.22	2.47	4.47	47.1	1.76	1.10	3.59	2.86	2.70	6.54	
	Та	0.36	0.37	0.19	0.13	0.13	0.45	0.10	0.14	0.39	0.22	0.17	0.09	0.31	0.24	0.27	0.39	0.12	5.0	5 5	. α	. c	0 5	0.25	0.21	0.32	0.30	0.17	0.13	0.11	0.25	0.19	0.11	0.28	0.13	0.21	0.27	0.34	0.22	0.15	0.23	0.10	0.13	0.16	0.16	0.14	0.32	
	Sm	1.72	1.73	2.93	1.21	0.65	2.17	1.05	1.25	2.38	1.47	0.72	0.59	2.15	5.27	1.53	2.89	0.81	7.52	- c	22.0	3 7 2	9.7.5	1.33	3.84	1.39	2.84	0.84	<u>+</u>	1.90	96.0	1.40	1.79	797	0.55	1.10	1.43	1.89	1.04	1.83	182	0.73	0.23	1.71	1.09	1.28	2.13	
	Pr	0.03	0.05	0.10	0.02	0.02	0.05	0.02	0.01	0.05	0.02	0.01	0.01	90.0	0.13	0.05	90.0	0.05	90.0	20.0	0.0	1 0	0.0	0.10	0.10	0.02	0.04	0.01	0.02	0.03	0.02	0.04	0.04	0.03	0.01	0.01	0.04	0.04	0.02	0.02	0.00	0.01	0.01	0.05	0.01	0.03	0.03	
	Pb	0.033	0.031	0.064	0.014	0.011	0.041	0.119	0.015	0.056	0.015	0.011	<0.006	0.031	0.047	0.802	0.056	0.019	110.0	0.03	0.02	0.000	0.139	0.555	0.072	0.093	0.134	0.018	0.021	0.233	0.046	0.037	0.048	0.175	0.110	0.038	0.033	0.036	0.018	0.032	0.131	0.161	0.033	0.056	0.016	0.025	0.037	
	Ь	315.30	347.44	335.84	233.44	200.74	365.40	123.62	179.27	484.13	284.93	167.01	163.16	411.75	300.67	279.07	473.65	185.98	240.48	250.93	184.86	267.63	206.91	243.27	268.69	318.07	337.26	204.32	163.70	185.85	201.72	375.21	195.25	307.61	180.71	249.17	307.11	335.68	202.57	293.92	323.02	188.13	149.72	240.06	248.49	216.97	376.10	
	PN	0.80	99.0	1.29	0.62	0:30	0.80	0.44	0.80	0.89	0.58	0.24	0.14	0.84	2.12	0.53	1.45	0.37	0.93	1.45	54.0	. t	0.35	0.89	2.60	0.52	0.79	0.39	0.38	98.0	0.27	0.40	0.94	0.60	0.13	0.50	0.73	0.63	0.39	0.75	2.73	0.25	0.15	0.82	0.51	0.63	99.0	
	qN	76.0	1.15	92.0	0.51	0.48	1.21	0.33	0.43	1.54	0.73	0.40	0.28	1.09	98.0	0.80	1.50	0.48	0.42	0.0	0.00	0.62	0.62	0.61	0.83	0.74	1.26	0.53	0.50	0.42	0.56	0.63	0.37	0.92	0.42	0.74	0.98	1.22	0.51	0.69	0.30	0.41	0.31	0.52	0.47	0.47	1.12	
	Γn	104.55	117.35	102.36	59.01	48.50	136.33	34.70	49.91	177.73	84.83	48.20	39.15	117.15	113.70	96.93	156.12	43.54	60.28	64.70	5 85	08 90	49.70	75.69	110.18	83.28	131.31	66.09	44.49	53.04	63.90	86.82	56.68	110.73	30.89	75.33	107.05	125.74	61.96	89.75	91.51	40.69	24.38	67.15	67.70	27.57	121.97	
	La	0.003	<0.003	0.064	0.003	±0.003	0.010	<0.003	€0.003	<0.003	0.003	<0.003	<0.003	0.026	0.040	0.058	0.003	0.020	0.035	70.00	0.036	0000	<0.003	0.268	0.010	0.004	<0.003	<0.002	<0.002	<0.003	<0.003	0.045	0.008	0.006	<0.003	<0.003	<0.003	<0.002	0.008	<0.002	0.000	0.004	<0.002	0.030	<0.002	0.025	<0.002	
1	Но	32.61			15.78									36.69	41.55	27.01	53.35	10.86		02.01		32.67			39.99	23.38						23.76	18.14	30.79							27.93						37.33	
	Hf	9946.01	10264.30	9434.73	10049.68	10112.81	9931.51	10151.82	10560.02	9104.86	02'6696	10236.09	10711.04	9365.74	9756.75	9771.70	9264.53	10370.38	97.71.99	10.1000	10661.33	0550.84	9559.64	9895.09	9311.76	10712.92	9778.55	9719.83	10754.16	10474.63	11827.30	9741.88	10448.27	9300.42	10526.41	10053.51	10135.30	10153.63	9814.26	9534.61	9929.72	10425.66	107 19.56	9624.28	10397.26	10691.21	9435.34	
	PS	3.46	•		7.24 1	_			•			6.16 1						•	10.06				,					7.08	6.03	•			_	7.45 7.46	•	8.41	12.07	•		12.05					7.27	_		ppm.
	Eu	0.96			0.58		Ì	0.45	0.59	1.46 2		0.38	0.37						97.0	,		•	-		.,	09.0	1.20 1	0.49	0.50	98.0				0.80		0.59	0.87				087		0.22	0.77			1.14	e in
	Er	181.66			90.48														97.48							134.22				08:98	_			67.73		117.07	177.46				157 19				96.40		209.59	nts ar
	Dy	76.39 18		_	38.05 9		(4				_								45.68			,				54.29 13		35.45						28.40		46.87 11	72.46 17	•			93.35 20				37.98		88.58 20	elements are in ppm
										•					•																																	*All e
	Ce	7.50			3.72	3.41	9.01	2.43	3.29	12.01						5.77	11.93	2.85	3.38	, o.o.	9. 6.		3.77	5.13	8.09	90.9	10.47	3.47	2.77	3.38	4.82	.5.	ri d	9.19	, <u>, , , , , , , , , , , , , , , , , , </u>	4	6.82	7.	ю	ທີ່	0.03	2.31	2.32	4.26	3.0	9.	7.1	•
	Analysis ID	SING-02_z_18	SING-02_z_19	SING-02_z_2	SING-02_z_20	SING-02 z 22	SING-02_z_23	SING-02_z_24	SING-02_z_25	SING-02_z_26	SING-02_z_27	SING-02_z_28	SING-02_z_29	SING-02_z_3	SING-02_z_30	SING-02_z_31	SING-02_z_4	SING-02_z_5	SING-02_2_6	SING 02 7 B	SING-02 7 9	TP-02 4 1	TR-02_2_1	TR-02 z 12	TR-02 z 13	TR-02 z 14	TR-02_z_15	TR-02_z_16	TR-02_z_17	TR-02_z_18	TR-02_z_19	TR-02_z_2	TR-02_z_20	TR-02_2_21	TR-02_z_23	TR-02_z_24	TR-02_z_25	TR-02_z_26	TR-02_z_27	TR-02_z_28	TR-02_2_3	TR-02 z 30	TR-02 z 31	TR-02_z_32	TR-02_z_33	TR-02_z_34	TR-02_z_4	

Appendix C: Eastern Sunda arc zircon trace element chemistry

F	4														_						_				_																	1.99 7.21			_				
ŭ.	-				× <2.530																																					32 10.99							
7.2	4	489366.04																																486943.71									488629.46				1	4	489197.6
Ş	2	118.55	309.41	470.02	298.06	243.32	239.12	273.11	992.24	86.1901	509.83	1438.42	902.63	619.56	819.14	1066.96	777.06	694.80	577.71	1948.29	1109.32	504.70	788.81	976.44	573.51	635.38	636.02	2313.57	1006.97	712.40	927.12	86161	555.75	464.17	728.49	853.59	2191 77	518.11	856.39	484.61	242.48	270.98	370.95	439.62	796.47	402.68	284.51	340.17	313.61
>	-	273.77	714.26	1168.86	627.38	704.70	21.12	002.79	3111.28	3519.15	1269.78	4830.11	2410.45	1892.68	2438.69	3235.46	2287.69	1980.52	1692.69	7052.96	3402.79	1404.25	2550.84	3202.48	1613.65	1846.80	1958.29	9365.46	3256.55	2170.96	2970.90	2750.40	1371.70	1228.14	2150.01	2561.83	7565.03	1139.90	2745.52	1230.84	711.80	758.71	1147.71	1354.89	2790.39	1230.59	847.56	986.96	882.31
=	,	20.74	37.91	57.81	37.83	85.54	20.00	30.00	150.70	103.33	65.88	166.70	144.87	39.50	56.15	111.48	84.87	59.95	53.83	347.57	191.14	39.50	59.71	126.38	37.81	41.58	70.96	399.07	168.63	59.18	72.05	54.60	68.05	91.79	65.67	69.98	218 41	57.34	85.25	35.97	36.63	45.59	46.59	65.83	145.04	63.74	39.53	46.05	44.65
Ē		10.72	28.17	44.53	26.02	20.00	20.32	72.77	106.98	116.83	49.95	161.57	89.26	67.01	87.62	110.69	80.43	69.92	61.33	227.75	119.16	53.03	86.08	106.76	60.07	65.90	69.38	270.46	110.86	76.75	86.00	90.00	54.58	45.77	78.41	92.02	248.80	48.16	96.42	48.42	24.44	26.56	38.56	47.22	88.95	41.00	28.07	33.94	30.80
£	=	10.24	18.04	35.85	15.00	24.09	2.50	3.52	161.73	8.80	25.36	138.32	135.77	20.92	31.77	63.28	50.05	26.87	28.38	328.49	175.29	15.36	39.80	126.38	13.01	18.02	32.57	457.63	109.58	28.48	98.00	36.03	30.16	33.55	37.97	39.07	196.70	32.89	45.38	12.00	22.09	27.78	30.12	46.89	142.97	42.03	29.23	26.30	21.45
£	2	1.40	3.23	00.9	2.7	0.0	0.00	3.2/	67.75	20.68	5.89	29.34	14.80	1.04	13.55	17.18	12.19	11.29	8.98	46.14	19.04	7.21	15.95	20.11	8.52	10.03	11.78	72.81	19.26	12.08	04.01	17.41	6.28	6.14	12.23	14.54	49.03	4.88	16.18	6.12	4.79	4.82	7.77	9.60	20.38	8.73	5.64	6.15	5.35
Ē	3	0.10	0.20	0.27	0.19	0.23	0 0	0.10	0.65	0.49	0.40	0.94	0.20	0.28	0.28	0.58	09:0	0.26	0.45	1.93	0.95	0.27	0.22	0.64	0.29	0.38	0.45	1.78	0.95	0.37	0.00	9.0	0.45	0.38	0.33	0.44	0.86	0.22	0.53	0.23	0.12	0.21	0.13	0.13	0.28	0.13	0.15	0.16	0.11
S	5	0.47	<del>-</del> -	2.10	1.20	04.0	6.9	0. 4		2.88	1.66	9.34	92.9	3.00	4.95	4.92	3.32	3.98	2.44	15.86	5.05	1.51	6.41	13.19	2.59	2.81	3.39	67.35	4.75	3.53	4 6	5.04	1.63	1.80	3.64	3.44	17.39	1.81	5.35	2.04	2.38	2.28	4.45	5.13	7.36	4.43	2.87	2.96	2.42
à	-	0.01	0.02	0.04	0.03	0.03	0.00	60.0	0.06	0.10	0.02	0.19	0.21	0.04	90.0	0.09	0.03	0.07	0.02	0.38	0.07	0.01	0.11	5.52	0.02	0.03	0.10	29.26	0.05	0.04	0.00	0.03	0.01	0.02	0.13	0.02	0.00	0.03	0.03	0.16	0.05	0.08	0.12	0.11	0.15	0.09	90.0	0.05	0.05
g	2	0.316	0.044	0.043	0.018	0.07	\$ 00.0	0.390	0.172	0.108	0.038	0.194	0.062	0.048	0.048	0.090	0.060	0.061	0.037	0.365	0.260	0.037	0.110	0.190	0.026	0.029	0.049	0.552	0.143	0.036	010	0.073	0.070	0.061	0.127	0.064	0.007	0.052	0.078	<0.025	0.016	0.023	0.015	0.096	0.053	0.632	0.246	0.479	0.007
۵	-	138.31	242.25	323.40	226.25	21.12	7.062	228.30	635.02	811.93	349.45	1055.95	385.75	414.17	409.58	620.90	488.24	437.19	453.64	1417.17	744.15	312.64	419.72	2780.98	287.80	493.12	478.77	16083.22	/62.4/	533.47	560 73	512.21	400.83	304.71	495.81	447.39	1008 15	316.93	716.87	920.45	234.37	252.63	235.05	289.17	324.71	321.18	196.42	182.07	163.91
N	2	0.13	0.36	0.92	0.55	70.0	4 7	- 7.7	77.	06.1	0.47	3.10	3.89	1.16	1.87	1.62	0.77	1.22	0.64	5.15	1.55	0.50	2.23	29.24	0.59	0.57	1.33	168.99	1.16	1.1	4 .	201	0.59	0.49	1.78	0.82	7.41	69.0	1.20	1.85	1.47	1.08	2.27	1.97	2.74	1.65	1.04	1.05	0.62
Š	2	0.49	69.0	1.03	0.65	0.0	0.0	5.0	7.00	5	1.0	2.81	0.74	0.95	0.95	1.76	49.	0.73	1.39	8.89	3.09	1.17	0.70	1.95	1.08	1.20	1.39	11.42	4.28	<u>-</u> .	2.40	0.77	1.07	06:0	1.28	1.47	2 23	0.79	1.90	0.95	09.0	0.70	0.79	0.74	1.95	69.0	0.64	0.83	92.0
3	3	28.61	75.02	110.78	73.90	03.20	03.00	100.00	199.09	213.34	108.92	289.31	200.26	126.61	167.18	216.06	156.24	140.87	117.27	374.98	232.66	107.05	159.23	195.30	119.95	128.46	127.82	412.82	194.00	145.59	163.90	173.81	120.01	99.10	147.45	168.80	425.69	124.76	175.52	116.48	53.27	60.72	80.81	94.80	168.14	90.82	62.16	74.90	68.70
e	ł	0.011	<0.002	0.003	<0.002	0.022	0.023	0.088	<0.002	0.077	<0.002	0.146	0.018	0.043	<0.006	0.088	0.002	0.049	<0.002	0.301	0.058	>0.006	0.093	10.575	0.002	0.019	0.199	52.056	0.018	0.017	000.00	0.000 <0.006	0.033	0.020	0.143	40.00e	0.002	0.042	0.044	0.454	<0.007	0.011	<0.007	0.011	<0.007	<0.007	0.044	0.005	<0.003
Ť	2	7.79	20.02	34.19	17.41	22.39	70.00	9.70	97.51	112.82	38.52	157.04	73.91	64.51	76.30	99.64	71.04	63.51	54.69	241.68	107.56	45.84	83.92	99.38	53.16	58.55	65.44	313.93	107.58	70.16	90.50	91.44	41.69	39.13	72.18	86.09	247.26	33.54	92.31	38.03	21.42	23.15	35.56	42.49	88.34	38.00	25.78	30.20	26.36
ž	•	9975.61	10009.09	9465.39	9765.54	95/0.22	10242.10	0054.00	9824.86	9394.64	12190.82	10251.96	8107.64	10513.09	9999.54	10610.53	10315.14	10061.21	10403.17	9867.88	10197.99	9197.51	10324.16	10110.96	9327.31	10280.51	10683.68	9384.51	60.70701	10485.43	10000.27	9615 12	12042.47	10428.04	9844.78	8992.42	10076.81	8610.98	10189.64	9975.74	9083.54	9592.22	8863.78	8501.44	9033.24	8545.85	9180.88	9098.15	8822.96
- B	3	3.96	7.86	14.73	7.75	0.00	4.0	4 5	40.17	17.06	~		46.22	59.69	37.07	42.02	_													30.09				14.56	31.83	35.44	137.28	12.90	41.28	14.58	14.69	12.41	24.75	31.24	61.68	26.80	17.69	17.68	15.72
ā	ì	0.26	0.59	0.98	0.66	5.73	5.50		4 6	87.	0.32	79.	3.45	0.59	0.87	0.97	0.71	1.01	0.48	1.72	0.95	0.45	1.48	1.61	0.52	0.47	0.58	4.47	0.77	0.54	50.0	2 5	0.31	0.46	0.89	1.06	3.14	0.92	29.0	0.32	1.13	0.91	1.82	2.49	4.10	2.12	1.30	1.39	1.10
ù	i	44.83	117.78	190.32	105.85	128.01	123.09	00.00	500.60	5/5.19	216.95	789.07	396.22	320.94	405.10	525.11	382.63	331.73	286.58	1138.72	565.41	247.94	418.38	506.81	282.81	314.30	334.57	1461.36	546.18	366.81	480.08	460.88	236.79	210.73	365.34	442.76	1202.37	200.08	477.03	221.95	111.97	125.06	179.06	211.76	433.81	193.17	133.11	153.97	67.87 138.80 1.10 15.72
à	î	19.04	46.26	90.08	39.44	54.70	87.19	6.45	242.80	282.84	86.34	385.45	187.36	148.92	186.77	239.40	168.80	152.64	130.97	602.15	261.77	103.12	208.04	248.22	125.26	140.60	161.61	875.73	266.29	172.33	240.42	220.13	89.68	91.12	164.67	203.76	629.65	70.03	218.73	81.24	55.24	58.02	91.61	111.68	234.76	99.73	67.86	76.39	67.87
g	3	2.52	4.50	7.11	3.99	2.07	0.00	94.4	14.46	11.40	5.25	21.62	9.65	4.27	5.28	10.51	9.08	4.62	5.72	29.39	17.22	2.76	7.32	47.12	2.96	4.90	5.19	205.13	11.87	5.23	12.1	6.25	6.08	4.52	6.80	5.74	32.62	5.61	6.14	5.19	6.53	7.92	7.31	10.31	26.59	9.84	6.70	7.54	7.11
Analysis ID	a codimina	TR-02_z_5	TR-02_z_6	TR-02_z_7	TR-02_z_8	TP-02_2_9	TP-03-2-1	TP-03_Z_Z	TK-04_Z_1	1K-04_Z_10	TR-04_z_11	TR-04_z_12	TR-04_z_13	TR-04_z_14	TR-04_z_15	TR-04_z_16	TR-04_z_17	TR-04_z_18	TR-04_z_19	TR-04_z_2	TR-04_z_20	TR-04_z_21	TR-04_z_22	TR-04_z_23	TR-04_z_24	TR-04_z_25	TR-04_z_26	TR-04_z_27	IK-04_z_28	TR-04_z_29	TB 04 2 30	TR-04-2-30	TR-04 z 32	TR-04_z_33	TR-04_z_34	TR-04_2_4	TR-04 2 6	TR-04 z 7	TR-04_z_8	TR-04_z_9	UG012183_z_1	UG012183_z_2	UG012183_z_3	UG012183_z_4	UG012183_z_5	UG012183_z_6	UG012185_z_1	UG012185_z_10	UG012185_z_11

Appendix C: Eastern Sunda arc zircon trace element chemistry

Analysis ID	S	۵	ū	En	PS	ž	P.	La	3	g	PN	۵	Pb	à	Sm		q.		E L	_	>	Q,	Zr	Fe	F
11C04240E = 42	24 44	150 00	303 45	2 0.7	44.20	0000	60 00	000	127 70	1 44	2.44	200 22	3100	-	4	╣`	١.	-	-	┨`		7 00 90	107126 21	4 17	1 10
UG012185_2_12 UG012185_7_14	4 99	46 44	90.32	0.97	10.96	9517.88	17.83	0.004	47.92	0.47	0.71	115.93	0.016	0.0	1.87	0.11	96.6	13.83	20.74	29.20			489252 71	4. I./ <2.697	4.19
UG012185 z 15	6.26	57.20	117.64	0.93	12.77	9311.13	21.31	0.054	64.50	0.71	0.82	189.51	0.204			1.12	4.					280.97 4	188694.24	180.90	33.00
UG012185_z_16	10.30	89.84	183.29	1.48	20.39	99.0006	34.52	0.010	85.73	1.23	1.63	224.43	0.190			0.21		.,			.,		188396.32	13.36	45.68
UG012185_z_17	20.84	186.78	333.92	4.14	52.29	8707.15	68.20	9000	143.20	1.30	3.85	295.89	0.021						111 270.73		Ī		486879.39	3.93	15.30
UG012185_z_18	17.57	122.26	252.42	1.58	24.59	9060.48	47.91	0.003	114.13	1.78	1.08	226.00	0.017									528.23 4	487696.03	3.39	30.73
UG012185_z_19	9.58	20.09	126.56	0.92	14.13	9832.49	23.45	<0.003	64.49	0.97	0.94	112.19	0.008						28.61 6				488643.35	<2.613	4.70
UG012185_z_2	4.27	41.61	84.04	0.70	9.38	9328.87	15.64	<0.003	45.47	0.54	99.0	112.17	>0.006										189493.41	<2.754	5.41
UG012185_z_20	4.60	43.15	91.57	0.67	9.72	8957.76	16.76	<0.003	48.89	0.52	0.45	193.25	0.008										489553.52	<2.702	4.79
UG012185_z_21	5.69	55.21	116.91	1.01	13.28	9071.53	21.90	<0.003	61.27	0.64	0.85	139.26	<0.006										189295.06	<2.669	6.22
UG012185_z_22	10.40	86.57	183.09	1.34	18.98	8607.99	34.70	0.014	92.10	0.90	1.31	276.94	0.401										488612.67	42.93	5.77
UG012185_z_23	7.22	62.26	125.94	1.01	14.67	9577.78	23.99	0.006	60.81	0.74	0.87	156.26	0.029										188783.65	4.74	5.66
UG012185_z_24	5.72	43.64	93.88	0.79	9.51	9432.34	17.60	<0.003	48.78	09:0	0.61	113.62	0.010										189315.93	<2.677	4.90
UG012185_z_25	14.77	98.07	195.56	1.32	21.64	9414.59	38.52	0.032	89.20	1.27	1.17	193.50	0.016					60.32 42				411.02 4	488023.18	35.28	9.92
UG012185_z_26	10.44	79.89	169.48	1.24	17.05	9185.85	31.82	<0.003	81.75	1.05	0.98	174.59	0.014										488590.47	<2.664	6.29
UG012185_z_27	5.86	35.16	74.33	0.64	7.40	10411.09	13.97	<0.003	41.65	0.57	0.39	85.69	900.0			0.15							488810.56	<2.695	4.06
UG012185_z_3	9.82	73.91	163.70	1.22	16.31	9383.53	30.16	<0.003	79.65	0.94	0.87	146.65	0.009						35.15 5				188594.43	<2.685	6.71
UG012185_z_4	31.72	219.86	416.08	3.33	51.82	8908.48	84.61	0.007	168.16	2.33	1.62	267.99	0.062										485903.71	5.91	12.97
UG012185_z_5	9.92	80.16	165.96	1.28	17.18	9348.60	31.28	0.026	79.05	0.93	1.07	178.74	0.156										488494.45	10.95	5.94
UG012185_z_6	13.73	92.64	208.28	1.20	18.88	9012.95	38.80	0.005	102.13	1.33	0.93	190.27	0.011										488306.53	4.88	7.22
UG012185_z_7	14.00	115.82	235.10	1.73	24.57	8660.23	44.92	<0.003	105.35	1.37	1.59	241.09	0.026						49.21 7				488178.25	<2.633	9.70
UG012185_z_8	7.93	92.46	166.33	1.75	24.46	69.9006	33.06	900.0	77.23	0.65	1.79	194.90	0.012										188684.78	7.26	4.93
UG012185_z_9	21.52	136.29	258.32	2.28	33.51	9273.54	51.64	900.0	113.08	1.73	1.78	226.95	0.079					109.46 5				536.80 4	187404.13	<2.670	8.41
UG012187_z_1	18.03	150.70	286.22	2.42	35.48	8778.04	26.70	0.010	122.14	1.64	2.10	251.44	0.018										187505.21	<2.692	9.10
UG012187_z_10	21.09	157.44	308.98	2.65	42.98	8211.05	60.57	0.203	131.95	1.40	2.87	274.65	0.031										487538.50	61.68	54.72
UG012187_z_11	10.65	74.55	165.85	1.10	16.20	9551.50	31.47	<0.007	76.99	1.03	92.0	148.74	<0.014			0.18							488427.90	<5.885	7.62
UG012187_z_12	8.73	74.04	158.95	1.30	16.22	9271.49	29.77	0.009	80.41	0.95	0.91	155.05	0.007										188665.29	<2.686	98.9
UG012187_z_13	6.30	54.22	108.48	4	12.63	9035.11	20.67	0.011	53.61	0.57	0.84	157.23	0.009										189382.07	4.43	2.07
UG012187_z_14	10.14	83.15	170.21	1.49	19.16	9340.83	32.50	0.005	81.80	0.93	1.35	150.00	0.014										488504.76	3.74	6.01
UG012187_z_15	18.39	120.54	254.57	1.49	22.41	9235.46	48.39	0.004	120.30	1.83	1.09	207.59	0.016										187561.34	<2.653	8.62
UG012187_z_16	5.89	78.01	137.99	1.69	21.28	9349.37	28.21	0.009	61.48	0.58	2.06	123.41	0.051										488852.73	4.98	5.33
UG012187_z_17	5.86	21.29	51.05	0.39	5.16	10574.29	8.88	<0.003	37.79	0.42	0.28	57.29	0.064						13.00 4				488956.73	5.40	3.04
UG012187_z_18	6.87	79.02	138.09	1.76	21.17	9648.48	28.84	0.035	61.66	0.59	1.93	91.82	0.008			0.09							488677.19	<2.693	4.91
UG012187_z_19	6.04	38.85	90.74	0.54	8.67	9829.81	16.45	0.013	49.75	0.76	0.33	125.75	<0.014									•	489028.45	11.42	5.32
UG012187_z_2	2.68	37.51	84.54	0.59	8.38	9612.39	15.43	0.011	49.22	0.69	0.49	117.98	0.014										489232.69	23.61	5.08
UG012187_z_3	9.27	06.00	156.89	20.5	14.59	8903.03	29.39	<0.003	79.68	1.01	0.65	164.87	<0.006										488953.05	<2.649	88.0
UG012187 2 4	9.30	42.93	93.00	92.0	10.03	9491.30	16.07	×0.003	40.10	0.07	0.00	112.38	×0.00×			0.10			21.00			223.07	489012.65	<2.672	0.00
UG012187 z 6	4.20	42.12	86.62	0.61	10.09	9582.81	16.39	0.059	43.80	0.35	1.08	91.05	<0.019										489334.44	<7.684	5.75
UG012187 z 7	9.48	78.56	152.64	1.35	19.03	9069.44	30.21	0.036	70.62	0.79	1.22	182.33	0.015										188777.52	29.15	7.87
UG012187_z_8	4.68	55.87	98.34	45.	15.51	9858.51	19.58	0.005	46.12	0.37	1.35	114.60	>0.006									214.61 4	488915.44	<2.702	4.87
UG012187_z_9	7.05	59.89	135.12	96.0	12.44	8576.87	25.24	<0.003	73.14	0.78	0.54	185.56	>0.006										189366.03	<2.677	7.02
UG012188_z_1	4.60	30.97	68.70	0.49	6.71	97.77.78	12.50	<0.003	38.28	0.50	0.23	104.09	0.010										489338.76	<2.677	4.21
UG012188_z_10	20.37	131.33	256.04	2.38	33.54	9091.12	49.92	900'0	118.49	1.30	2.17	277.36	0:030			0.28 11	11.15	85.05 58			1675.07 5	7	187444.27	<2.675	5.26
UG012188_z_11	16.82	102.59	206.98	4.	22.05	9368.20	41.22	<0.003	100.01	1.61	1.01	179.31	0.023					•			•	463.28 4	187948.59	<2.644	7.07
UG012188_z_12	11.50	74.79	165.21	1.30	18.53	8874.55	30.75	<0.007	80.34	1.15	1.02	220.50	0.063								.,	7	188741.86	17.84	5.20
UG012188_z_13	6.74	46.40	98.54	1.01	12.07	10436.65	18.28	0.071	53.52	0.68	0.78	106.15	1.254			0.17	3.85	24.67 2				. 4	187832.40	512.10	4.51
UG012188_z_14	22.86	105.78	221.07	1.30	22.20	10981.34	42.31	0.030	105.92	2.12	1.07	199.77	0.329		3.55	1.12	3.11 20		48.59 11		7	4	186450.60	12.79	7.60
UG012188_z_15	18.12	134.76	290.06	1.72	25.48	8927.69	54.54	0.013	134.75	2.22	1.52	221.18	1.024		3.23	7.41	9.65	68.53 6,	_		-		187425.76	12.18	11.14
UG012188_z_16	104.20	173.99	316.40	4.37	52.59	8603.88	63.84	33.832	133.69	1.80	50.79	5294.49	0.102	_	16.23	0.25 1.	5.29	2.32 66	66.10 13	34.91 20	_	332.47 4	477031.30	47.46	8.63
	WW.	*All elements	ents a	ıre in	are in ppm																				
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Appendix C: Eastern Sunda arc zircon trace element chemistry

Analysis ID	3	è	ů	ā	3	±	. =	0	=	<u> </u>	P.	٥	4	à	E	<u>.</u>	<u> </u>	-	Ē	·  -	>	ş	, ,	9	F
al sie field	9	ý	1 00		3	= 0.00	2 .	81	P	2	2	10,70	2 0	- 0	4		4	4			4	-	17	9 10	- 13
UG012188_z_17	6.52	61.08	86.09	0.78	9.62	10979.12	15.81	0.123	45.88	0.52	0.91	91.37	0.199	0.05		0.15					535.15	203.44	488237.30	25.46	4.27
10012188_2_18	2	00.00	47.14		12.00	9122.03	50.30	0.000	00.77	9 5	0.07	200.30	0.027	1 0									400400.14		2 0
UG012188 7 2	7 2	110.44	232.07	1.59	24 77	10127.02	43.68	0.00	118.35	2.20	5 6	403 90	0.042	0.00									487026.33	46.21	6.03
UG012188 7 20	10.56	79.80	169.85	2 7	16.61	9151 23	32.26	<0.003	84.76	160	83	216.01	0.00	0.03									488516.97	<2.631	5.50
UG012188 z 21	13.44	88.98	180.32	1.43	20.41	9190.92	34.25	<0.003	86.13	1.02	1.07	225.45	0.016	0.04									488356.07	<2.663	5.62
UG012188 z 22	25.05	115.60	222.67	1.64	23.85	9834.58	4 8	0.040	94.88	1.93	4	201.05	0.422	0.09									487215.55	54.19	7.76
UG012188_z_23	16.62	100.58	205.44	1.44	20.39	9271.12	39.78	<0.003	96.32	1.48	1.03	165.89	0.012	0.05									488110.35	<2.655	7.58
UG012188_z_24	7.35	65.88	130.11	1.32	16.71	9505.36	24.91	<0.003	61.42	0.62	06.0	147.06	0.088	0.07									488801.33	4.52	6.85
UG012188_z_25	13.24	69.89	144.78	1.23	15.55	10622.52	26.59	0.005	73.74	0.93	0.70	225.79	0.024	0.03									487569.50	<2.798	4.96
UG012188_z_26	10.52	63.64	143.16	1.18	14.72	9324.30	26.09	<0.003	74.45	1.05	1.03	178.78	0.013	0.05									488731.73	6.26	99.9
UG012188_z_27	14.09	59.88	108.31	1.06	14.95	9870.75	21.50	0.023	48.02	06.0	0.64	137.92	0.034	0.04									488629.21	8.19	5.72
UG012188_z_3	10.00	71.12	141.13	1.35	17.02	9541.98	27.55	0.020	70.36	0.68	4	212.39	0.011	90.0									488506.32	<2.695	5.16
UG012188_z_4	17.45	108.21	198.41	1.66	25.06	9925.44	40.29	0.029	88.28	1.37	1.31	181.66	8.501	0.07							•		486884.64	551.67	6.75
UG012188_z_5	3.33	23.22	48.55	0.44	2.57	10006.38	8.98	0.006	26.78	0.33	0.37	86.44	0.095	0.01									489412.19	<2.720	4.07
UG012188_z_6	6.43	41.23	89.46	0.62	8.54	10261.37	16.83	0.063	49.88	0.74	0.54	126.34	0.010	0.03									488698.58	4.04	4.81
UG012188_z_7	10.70	67.03	150.49	0.97	13.59	9656.90	27.61	<0.003	74.18	1.15	0.56	153.99	0.021	0.02									488420.75	<2.688	57.79
UG012188_z_8	15.15	98.48	197.91	1.54	22.78	9418.58	38.33	0.010	93.19	1.27	1.26	211.94	0.673	0.05									487984.64	18.20	7.36
UG012188_z_9	5.15	40.68	89.53	0.81	11.47	9724.71	17.30	<0.00>	49.70	0.54	0.89	101.60	<0.014	0.03									489149.68	10.64	3.59
UG012189_z_1	7.38	54.46	118.30	0.77	11.54	9279.24	21.76	<0.003	29.87	0.91	0.76	173.73	<0.005	0.02									489035.66	90.9	6.85
UG012189_z_10	4.35	40.32	86.91	99.0	8.98	8996.71	16.22	<0.003	46.81	0.53	0.31	200.23	0.033	0.01									489549.56	<2.662	4.24
UG012189_z_11	4.61	49.60	90.52	0.87	11.04	9587.21	17.45	0.021	42.52	0.4	0.76	172.12	0.509	0.04									488981.13	93.82	7.51
UG012189_z_12	10.31	78.97	179.53	1.15	15.55	8963.46	33.32	<0.003	91.30	1.4	0.76	183.49	<0.006	0.03									488642.06	<2.643	7.35
UG012189_z_2	5.34	31.20	68.05	0.43		9326.60	12.58	<0.003	35.13	0.51	0.30	112.79	<0.005	0.01									489661.74	3.42	6.68
UG012189_z_3	6.75	32.92	70.91	0.53		10132.77	13.36	<0.003	35.55	0.54	0.37	110.08	0.007	0.01								159.79	489001.41	<2.672	17.38
UG012189_z_4	3.57	30.67	65.90	0.45		9367.65	12.04	<0.003	36.24	0.52	55.7	144.86	0.062	0.01									489597.73	. 6 4 00	4.54
UG012189_z_5	6.50	70.24	132.10	1.41	17.09	9900.50	25.95	<0.003	62.91	0.60	7.55	135.97	0.016	0.07									488506.41	<2.666	3.82
0,0012109,2,0	4.07	200.02	300.24	3.20	47.02	17.0000	74.10	0.027	70.02	0 2	7.7	230.30	0.043	0.09									4000 10.01	20.03	0.60
UGU12189_Z_/	0.70	147 00	145.07	00.7	00.00	9650.95	47.40	0.008	111 80	20.0	5 6	109.54	0.003	4.4									488498.28	444 50	2.97
0.0012189.2.0	0.57 47	70.30	162.68	5 t t	18.58	9130.17	24.74	5 6	78.48	96.	9.5	202 86	3.612	- 6									467493.20	128 84	0.73
11G012191 2 1	- 8 5 o	96.74	189.31	202	25.37	8912.56	37.27	0.00	21.2	0.53		139.60	0.026	0.16									488634 73	<2.553	5.07
UG012191 z 10	31.23	194.90	401.73	2.82	43.21	8422.57	76.91	0.005	185.10	1.68	1.66	321.76	0.151	0.07		0.26					2561.78		486255.84	<2.569	12.08
UG012191_z_11	20.26	115.07	256.14	1.80	24.10	8766.45	47.98	0.011	125.49	1.18	1.37	262.93	0.056	90.0									487775.22	24.07	7.38
UG012191_z_12	25.74	197.35	399.94	3.00	43.59	8515.63	96.92	0.043	179.15	1.68	1.92	484.77	0.419	0.10									485969.36	41.50	12.90
UG012191_z_13	14.68	93.51	206.50	1.28	19.63	8707.23	38.76	0.010	103.54	1.09	4	284.48	0.094	0.05									488319.60	4.26	7.22
UG012191_z_14	30.60	188.41	406.51	2.44	37.77	9030.60	76.55	0.00	193.12	2.00	1.67	372.94	0.184	0.10									485728.39	8.06	13.36
06012191_2_15	27.13	196.83	380.53	3.83	51.08	9102.05	74.81	0.031	1/9.96	7.0	9.97	383.87	0.117	0.27									485812.10	<2.536	5.87
UG012191_Z_16	97.89	73.06	237.58	1.34	18.76	8509.38	37.03	0.006	126.66	S. 5	2 6	77.052	0.052	0.06		2.72		136.42 5			1413.47	502.38	488272.02	<2.555 1325 01	9.35
11G012191 2 18	19.08	198.04	375.71	3.90	49.04	8428 92	75.05	0.00	169.47	1.23	9.6	339.05	0.063	0.00									486628 18	3 99	6.22
UG012191 z 19	24.92	169.78	370.25	2.04	32.03	8230.05	69.93	0.00	176.62	174	1.29	343.46	0.063	90.0							2315.79		486837.13	4.86	10.91
UG012191_z_2	16.72	112.87	250.18	1.62	22.18	8616.23	46.41	0.010	122.85	1.05	1.29	266.01	0.051	90.0								559.25	487935.70	52.12	8.24
UG012191_z_20	24.28	164.58	353.44	1.95	28.99	8531.50	64.99	0.010	156.76	1.81	4.	296.39	0.803	90.0								765.00	486842.11	40.58	12.98
UG012191_z_21	12.82	92.92	224.79	1.22	17.99	8750.37	40.77	0.003	127.30	06.0	0.78	389.16	0.076	0.04								260.63	487859.18	4.21	25.57
UG012191_z_22	11.96	76.95	180.82	1.01	14.13	8953.85	31.93	0.012	96.18	0.95	0.70	203.76	0.190	0.04	2.17	.18						423.86	488583.30	41.85	6.21
UG012191_z_23	8.33	66.11	149.35	0.92	13.40	8640.17	27.03	0.008	80.28	0.71	0.85	180.30	0.030	0.05	2.18	0.15	•					350.75	489198.26	16.23	7.67
UG012191_z_24	31.74	146.32	272.62	3.21	38.75	8910.03	54:21 00:44	0.035	123.31	<u> </u>	0 4.20	227.72	0.095	0.28	6.86	1.24	12.24				1735.89	589.97	487390.30 488133 44	<2.585	9.82
UG012191_2_26	26.60	143.53	315.19	1.81	27.76	8929.96	58.40	0.004	156.43	<u>4</u> <del>2</del>	1.22	304.63	0.020	0.06	3.14	0.33	•	211.11 7	70.38 11	114.43	933.75	721.27	486935.35	<2.589	9.63
	<b> </b> ∇*		elements are in	ro in																					
	Ç		2115	1	P.P.III.																				

Appendix C: Eastern Sunda arc zircon trace element chemistry

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Analysis ID	e S	'n	Ē	3	gg	Ė	운	Га	n	QN	$\exists$					Q I	II.	E	0	<b>.</b>	ΥD	77	- Le	=
UG012191_z_27	45.69	233.81	482.90	3.43	51.64	8778.84	93.57	900.0	218.60	2.29		_	_			18.37	382.47	103.26	168.05	3082.50	1022.61	485124.26	<2.594	10.57
UG012191_z_28	16.29	112.53	261.03	1.75	22.83	8044.81	47.56	<0.002	138.99	1.04			_	.,		8.55	118.66	29.77	81.62	1575.82	624.15	488122.00	<2.592	13.30
UG012191_z_29	9.75	35.19	84.23	09.0	7.04	8739.01	15.20	<0.002	50.74	0.50			-			2.52	50.55	20.39	41.37	510.21	219.54	489861.81	<2.614	9.62
UG012191_z_3	6.17	48.46	121.02	0.71	9.04	8499.56	21.39	<0.002	71.98	0.56						3.47	28.76	28.70	31.83	718.51	309.41	489549.54	<2.545	5.88
UG012191_z_30	5.12	50.26	115.37	0.80	10.74	9663.93	21.32	0.005	66.20	0.56						3.84	31.11	27.04	35.75	694.90	288.89	488670.98	52.75	7.57
UG012191_z_31	18.42	134.74	317.26	1.46	22.99	8658.87	56.20	0.144	164.41	1.74						9.22	139.86	71.68	101.37	1849.72	740.09	487145.92	4.77	10.22
UG012191_z_32	11.95	89.29	179.98	1.76	20.67	9613.54	34.45	0.009	91.41	0.64						7.01	95.66	40.63	54.34	1107.65	416.78	488105.80	<2.574	3.87
UG012191_z_33	7.62	67.15	165.61	0.93	13.41	9328.54	29.29	0.005	89.71	0.94						4.85	35.23	38.39	38.47	968.26	401.77	488575.69	17.02	4.97
UG012191_z_4	23.07	145.63	289.36	2.64	35.88	8729.73	56.85	0:030	132.63	1.28						11.88	287.11	63.71	104.20	1851.79	634.73	487251.95	<2.556	9.81
UG012191_z_5	16.14	135.67	290.11	2.11	27.86	8327.52	54.64	0.018	143.09	1.04					7 0.16	10.33	123.51	65.21	76.22	1804.87	654.05	487561.28	27.45	9.30
UG012191_z_6	23.79	130.08	294.88	1.92	25.40	7980.79	53.64	0.005	149.53	1.57					4 0.31	9.41	202.31	66.17	98.10	1806.08	678.45	487867.15	<2.558	10.36
UG012191_z_7	2.84	68.23	162.76	0.24	10.79	11554.17	28.86	0.011	80.80	0.44				0.02 0.96	6 0.14	4.50	22.52	36.73	45.37	954.12	374.75	486831.85	<2.578	3.62
UG012191_z_8	06.9	121.37	272.07	0.53	21.08	11243.01	50.54	0.002	123.30	0.71		382.58	0.214 0.0	0.03 2.52	2 0.25	8.62	138.16	59.58	156.79	1645.93	583.39	485577.45	<2.562	4.86
UG012191_z_9	13.73	63.21	158.21	0.89	11.37	9643.11	27.63	0.024	92.02	1.09						4.68	103.11	37.77	75.09	936.35	403.13	488192.31	30.56	4.81
UG012192_z_1	13.64	105.03	242.87	1.47	19.77	8357.52	43.67	0.010	126.80	0.97						7.68	110.18	54.37	74.18	1471.46	571.98	488172.07	<2.559	7.69
UG012192_z_10	13.70	108.57	251.64	1.43	21.56	8347.41	45.67	0.013	127.39	1.06	1.02	348.27 (	0.268 0.0	0.06 2.64	4 0.23	7.82	101.37	56.41	74.86	1503.78	576.73	488075.37	2.78	7.85
UG012192_z_11	8.68	312.86	603.38	1.03	26.87	9961.04	122.35	0.009	213.47	1.77	1.41	667.19	0.456 0.0	0.05 5.29	9 0.43	22.76	52.24	122.56	86.40	3719.84	1100.91	482970.68	<2.921	5.49
UG012192_z_2	11.04	83.87	181.37	<del>2</del> 8.	22.27	8857.04	34.20	0.025	92.48	0.64	3.13	161.81 11		0.23 4.33	3 0.13	6.70	133.29	40.84	63.83	1118.21	424.92	488648.80	4.90	11.45
UG012192_z_3	13.30	93.37	199.71	1.65	20.19	8642.07	37.81	0.027	101.50	0.84	2.11	193.83 17	17.350 0.7	0.12 3.73	3 0.15	7.11	97.13	45.58	65.60	1244.66	468.96	488580.64	<2.803	6.79
UG012192_z_4	5.61	55.07	110.02	1.15	14.63	9313.60	20.79	0.013	26.92	0.37	1.66	153.74			2 0.07	4.32	42.78	24.39	32.14	690.81	256.60	489132.98	4.89	4.51
UG012192_z_5	10.93	104.02	223.24	1.72	22.95	8868.51	41.46	0.009	111.30	0.87	1.63	281.38	0.230 0.0	0.09	7 0.18	7.98	74.97	49.92	55.74	1353.83	510.00	488099.03	2.62	4.94
UG012192_z_6	8.62	73.75	160.74	1.31	16.36	8363.77	29.04	0.014	86.93	0.62	1.55	241.46	0.123 0.0	0.07 2.78	8 0.10	5.79	64.61	36.08	41.01	985.43	375.91	489175.69	<2.539	5.30
UG012192_z_7	16.57	129.40	293.88	2.12	26.68	8016.30	53.18	0.009	155.18	1.07	1.72			0.10 3.82	2 0.26	9.77	147.80	66.91	95.21	1756.42	696.40	487757.77	<2.543	6.24
UG012192 z 8	13.58	98.86	232.81	1.36	19.55	8082.55	42.49	0.013	120.91	1.08	96.0			0.04 2.17		7.51	96.62	51.69	64.93	1406.47	540.99	488523.10	3.54	7.51
UG012192_z_9	10.31	69.94	170.32	0.63	12.84	10319.44	29.17	<0.003	99.76	0.80				0.02 1.40		4.90	76.67	40.16	66.39	1007.39	439.34	487424.95	<3.198	3.52
UG012194_z_1	9.86	65.48	137.97	1.28	15.88	8694.89	25.45	0.010	73.10	0.56	1.57			0.09 2.31		5.20	81.85	31.82	42.85	863.13	322.15	489192.37	<2.608	5.17
UG012194_z_10	15.62	112.59	245.21	1.75	24.18	8666.19	45.65	0.004	125.47	1.13	1.78	257.89			8 0.21	8.60	126.60	54.98	74.52	1522.45	565.12	487933.91	5.96	40.03
UG012194_z_11	2.89	42.79	114.38	0.29	7.72	11530.60	19.51	0.082	74.01	0.36	0.41	171.48 (	0.057 0.0	0.05 0.83	3 0.11	3.02	62.34	27.99	152.16	667.75	304.34	486539.20	586.40	14.94
UG012194_z_12	12.91	82.05	170.90	1.72	20.38	9311.72	32.03	0.057	85.94	0.88						6.52	157.03	39.28	75.24	1074.64	400.73	486985.18	929.02	8.69
UG012194_z_2	16.71	102.38	239.98	1.23	18.79	8978.44	44.60	0.037	129.44	1.47					3 0.25	7.58	137.97	54.49	82.60	1492.13	556.97	487651.88	53.70	13.43
UG012194_z_2	8.67	67.32	175.31	0.71	9.94	8774.91	29.28	0.142	102.85	0.95					5 0.09	4.71	50.88	39.68	48.48	1021.32	419.39	488274.52	268.51	13.32
UG012194_z_3	4.14	136.16	374.54	0.92	16.60	8567.20	63.40	<0.003	211.05	0.58	0.52	385.95		0.02 1.72	2 0.11	8.11	78.43	86.32	162.34	2182.57	904.47	486645.62	5.55	8.13
UG012194_z_4	16.88	134.79	279.73	2.22	29.49	8414.24	52.17	0.012	131.19	1.11	1.40	270.34 0		0.09 4.17	7 0.24	10.20	140.71	62.43	78.87	1686.38	615.42	487856.02	8.54	10.20
UG012194_z_5	17.37	125.00	278.45	2.31	29.23	8111.70	52.03	0.065	138.67	0.81					2 0.16	10.09	132.24	62.83	78.41	1689.06	626.73	487906.18	41.79	8.01
UG012194_z_6	1.64	46.80	109.57	0.74	10.12	8782.70	19.34	0.005	61.21	0.63						3.46	67.87	25.24	39.38	653.61	267.02	489501.46	3.36	4.46
UG012194_z_7	10.82	70.56	153.04	1.62	15.94	8055.45	28.71	0.024	75.25	0.63						5.58	135.92	33.90	105.68	933.11	343.70	489561.89	68.85	7.25
UG012194_z_8	9.39	78.76	181.51	1.31	15.66	9362.35	32.32	0.010	100.05	0.74	•					5.91	62.01	41.81	54.47	1100.06	440.34	488160.68	5.27	4.28
UG012194_z_9	5.06	37.68	87.86	0.55	6.32	8788.95	15.77	0.023	55.71	0.59						2.67	20.71	21.42	23.39	537.90	230.89	489694.26	11.29	5.78
UG012199_z_1	3.10	32.01	78.35	0.50	5.95	9497.91	13.88	0.060	47.18	0.53	0.42	166.94 4	4.572 0.0	0.03 0.94	0.13	2.32	18.24	18.11	35.80	472.40	197.83	488852.55	356.23	6.02
2_2_66121050	<del>+</del> +	0.10	00.00	0. 1	2 :	9023.07	\$ :	60.0	0 :	40.0						0.0	49.74	32.00	22.00	900.44	333.03	40003 1.04	207.03	ŧ :
UG012199_z_3	5.95	62.47	137.96	1.05	14.62	10521.74	25.43	0.044	75.64	0.63						5.03	74.22	31.22	68.82	835.44	327.86	487587.18	17.98	5.09
UGU1Z199_Z_4	3.2	78.74	96.	0.42	90.0	9927.94	45.54	<0.002	47.42	0.52						2.05	81.6	17.32	37.97	436.20	194.55	489026.95	<2.580	5.38
UG012199_z_5	12.92	156.83	324.18	1.91	30.31	9445.01	62.68	0.029	148.82	1.72						11.69	144.00	70.14	137.92	2062.64	691.51	486021.22	69.38	11.73
UG012199_z_6	33.62	156.18	317.43	1.38	38.56	12858.29	62.49	0.033	135.62	4.43		_				12.53	1199.17	68.71	184.37	2085.12	681.58	483039.28	69.17	5.57
UG012199_z_7	67.29	237.38	431.30	2.11	60.81	11766.20	99.06	0.154	185.82	6.91		•		_		19.58	2240.55	94.12	489.98	2978.57	888.27	480834.66	181.32	175.23
UG012200_z_1	73.52	217.11	434.46	1.80	53.92	11649.97	85.24	0.035	182.95	9.89		_				17.62	1566.35	96.43	446.19	2855.63	912.58	481734.01	57.27	8.12
UG012200_z_2	6.97	91.32	204.40	1.85	23.00	9067.70	38.24	0.010	106.71	0.68	.,	_			_	8.08	72.34	44.41	80.37	1246.32	457.39	487890.60	7.49	6.52
UG012200_z_3	62.91	200.18	388.54	3.12	53.16	11141.13	75.27	0.035	178.58	7.99	5.16			_		16.76	2159.88	85.03	263.24	2593.72	853.61	482432.23	13.03	12.71
UG012200_z_4	49.70	214.98	431.98	1.96	20.60	12306.86	81.82	0.197	199.69	13.51		•••	_	0.27 9.00	_	16.93	1410.86	95.73	395.56	2767.73	962.70	479712.70	806.84	71.84
UG012200_z_5	52.98	172.66	438.79	1.27	39.02	14974.47	75.11	1.230	220.30	42.31	11.31	591.06	3.372 1.3	1.38 8.6	9 53.78	13.12	17732.82	104.10	1659.49	2601.23	1063.07	466231.80	786.22	15.14
	*`	All ek	All elements are in ppm.	s are	[d ui e	bm.																		

Appendix C: Eastern Sunda arc zircon trace element chemistry

		Analysis ID Ce	à	Ē		p9 n		` ±	 오	ra La	3	q.	P	<u> </u>	Pb P	ES .	Ta	욘	£	Ξ	, =	>	γp	Zr	Fe	F
	1   1   1   1   1   1   1   1   1   1	5.0															-	4.88	34.51		54.22	888.04	351.16	488181.57	<2.614	6.74
1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,	1,10,   1,10	132.7	7	_		_		•		• •	•	_			10			38.50	7126.12	•	615.98	5410.27	1711.84	474138.35	10.62	7.20
1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,	1.1.   1.1.	48.7		•									(1)		_		•	8.41	6046.62		637.71	1644.12	588.97	476581.00	2713.09	8.33
		15.		0				-					٠, ٠					8.07	451.96		339.79	1528.02	672.67	483440.84	8.65	4.66
	15.0.   1.7.	20 6				,			·									1.56	17.06		39.68	352.29	173.08	487670.93	5.74	3.43
	1	. 6		•	_	-	_						•					1.86	7.94		19.04	377.50	180.80	488805.53	<2.740	4.89
	1.   1.   1.   1.   1.   1.   1.   1.	20.6	N	4		ιņ		-										20.56	120.45		115.40	3201.91	1009.55	484946.13	<2.731	15.12
No.		5.(					•		٧									2.79	17.16		53.42	564.74	248.23	488242.97	<2.744	6.30
	1	6.6																4.29	18.13		34.01	848.18	343.20	488746.38	<2.821	10.25
		9.9		•						•	51.10							4.57	707.80		264.86	1090.42	682.97	480575.12	14.07	4.48
	1.   1.   1.   1.   1.   1.   1.   1.	17.3	CV	(1)						•	83.54							16.37	105.61		111.99	2480.99	840.00	485192.88	4.82	66.9
1,50,   1,50	14.2   1.5	Ö.									56.86							2.54	37.74		60.88	540.11	238.25	488427.67	9.48	7.11
1,00,00,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0	1,50,   1,50	15.(									81.32							15.47	109.35		156.20	2338.31	814.58	484766.29	<2.788	7.32
11.1. 11. 11.1. 11.1. 11.1. 11.1. 11.1. 11.1. 11.1. 11.1. 11.1. 11.1. 11	1,11,11,11,11,11,11,11,11,11,11,11,11,1	တ်							v	•	31.87							7.30	32.40		57.64	1454.13	567.29	487782.70	<2.750	8.65
12.1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.	1271 1 4282	5.									94.81							4.88	15.83		34.90	975.29	401.21	488881.61	<2.783	7.10
1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,	1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,	16.									95.31							19.22	82.77		93.79	2767.05	920.73	485626.63	21.80	9.85
8.6.                 8.6.                 8.6.                 8.6.                 8.6.                 8.6.                 8.6.                 8.6.                8.6.                 8.6.                 8.6.                 8.6.                 8.6.                 8.6.                 8.6.                 8.6.                 8.6.                 8.6.                 8.6.                 8.6.                 8.6.                 8.6.                 8.6.                 8.6.                 8.6.                8.6.                 8.6.                 8.6.                 8.6.                 8.6.                 8.6.                 8.6.                 8.6.                 8.6.                 8.6.                 8.6.                 8.6.                 8.6.                 8.6.                 8.6.                 8.6.                 8.6.                      8.6.                  8.6.                     8.6.                  8.6.                     8.6.                     8.6.                     8.6.                     8.6.                     8.6.                     8.6.                     8.6.                     8.6.                        8.6.                           8.6.                     8.6.                        8.6.                     8.6.                     8.6.                        8.6.                         8.6.                                   8.6.                               8	National Column   National C	α α ο	_								22.55							25. 1	34.60		74.47	1416.80	537.99	487737.37	<2.793	7.40
1.7.1                 1.8.2                 2.9.2                 2.9.2                 2.9.2                 2.9.2                 2.9.2                 2.9.2                 2.9.2                 2.9.2                 2.9.2                 2.9.2                 2.9.2                 2.9.2                 2.9.2                 2.9.2                 2.9.2                 2.9.2                 2.9.2                  2.9.2                 2.9.2                  2.9.2                     2.9.2                      2.9.2                     2.9.2                     2.9.2                     2.9.2                     2.9.2                     2.9.2                     2.9.2                     2.9.2                       2.9.2                     2.9.2                     2.9.2                     2.9.2                     2.9.2                     2.9.2                     2.9.2                     2.9.2                     2.9.2                          2.9.2                     2.9.2	1,11,11,11,11,11,11,11,11,11,11,11,11,1	, i	,								87.28							9.7	75.57		34.28	1086.74	393.25	488450.99	42.840 9.94	9.0
4.2.                 1.2.                 2.2.                 2.2.                 2.2.                 2.2.                 2.2.                 2.2.                2.2.                 2.2.                 2.2.                 2.2.                 2.2.                 2.2.                 2.2.                 2.2.                 2.2.                 2.2.                 2.2.                 2.2.                 2.2.                 2.2.                 2.2.                 2.2.                 2.2.                2.2.                 2.2.                 2.2.                 2.2.                 2.2.                 2.2.                 2.2.                 2.2.                 2.2.                 2.2.                 2.2.                 2.2.                 2.2.                 2.2.                 2.2.                2.2. <td>  1</td> <td>, 0</td> <td></td> <td>•</td> <td></td> <td>9.42</td> <td>21.35</td> <td></td> <td>73.90</td> <td>1114 24</td> <td>332.12</td> <td>46/04 1.00</td> <td>0.3</td> <td>\$ C</td>	1	, 0		•														9.42	21.35		73.90	1114 24	332.12	46/04 1.00	0.3	\$ C
44.2         13.         14.2         14.2         15.2         14.2         15.2         14.2         15.2         14.2         15.2         14.2         15.2         14.2         15.2         14.2         15.2         14.2         15.2         14.2         15.2         14.2         15.2         14.2         15.2         14.2         15.2         14.2         15.2         14.2         15.2         14.2         15.2         14.2         15.2         14.2         15.2	1.   1.   1.   1.   1.   1.   1.   1.	BHF-02 2726 6.7																7.90	26.78		40.93	1176.82	420.72	488515.46	51.97	5 15
68.50         72.20 <th< td=""><td>  1.   1.   1.   1.   1.   1.   1.   1.</td><td>17 (</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>933</td><td>809.68</td><td></td><td>559.37</td><td>1860 78</td><td>904 02</td><td>480900 71</td><td>57.35</td><td>5.30</td></th<>	1.   1.   1.   1.   1.   1.   1.   1.	17 (																933	809.68		559.37	1860 78	904 02	480900 71	57.35	5.30
68.58                 69.00                 69.00                 69.00                 69.00                 69.00                 69.00                 69.00                 69.00                 69.00                 69.00                 69.00                 69.00                 69.00                 69.00                 69.00                 69.00                 69.00                69.00                 69.00                 69.00                 69.00                 69.00                 69.00                 69.00                 69.00                 69.00                 79.00                 69.00                 79.00                 69.00                 79.00                 69.00                 79.00                 79.00                 79.00                 79.00                 79.00                 79.00                 79.00                 79.00                 79.00                 79.00                 79.00                 79.00                 79.00                 79.00                 79.00                 79.00                 79.00                  79.00                 79.00                  79.00                      79.00                  79.00                  79.00                   79.00                  79.00                  79.00                  79.00                  79.00                  79.00                   79.00                  79.00                  79.00	68.96                 68.96                 68.96                 68.96                 68.96                 68.96                 68.96                 68.96                 68.96                 68.96                 68.96                 68.96                 68.96                 68.96                 68.96                 68.96                 68.96                 68.96                68.96                  68.96                 68.96                  68.96                  68.96                   68.96                  68.96                  68.96                  68.96                   68.96                  68.96                    68.96                  68.96                   68.96	7.5							v									6.74	29.13		58.65	1477.73	577.22	488330.33	<6.295	9.68
4.0.2.                 6.0.2.                7.0.2. <th< td=""><td>40.78   40.78</td><td>9.9</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>5.43</td><td>23.95</td><td></td><td>47.87</td><td>1244.77</td><td>491.54</td><td>488740.76</td><td>&lt;6.368</td><td>8.70</td></th<>	40.78   40.78	9.9																5.43	23.95		47.87	1244.77	491.54	488740.76	<6.368	8.70
4.0         5.0 <td>  1.22  </td> <td>29.1</td> <td></td> <td></td> <td></td> <td></td> <td>•</td> <td></td> <td>11.13</td> <td>1195.02</td> <td></td> <td>547.51</td> <td>2413.62</td> <td>1194.78</td> <td>480883.96</td> <td>68.94</td> <td>7.10</td>	1.22   1.22	29.1					•											11.13	1195.02		547.51	2413.62	1194.78	480883.96	68.94	7.10
12.28         0.36         3.38         0.04         6.74         0.74 <t< td=""><td>14284 10786 23 8 30 34 824,87 479 0.009 11394 0.00 113</td><td>5.6</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>2.95</td><td>13.62</td><td></td><td>27.38</td><td>631.15</td><td>285.22</td><td>488707.55</td><td>&lt;2.773</td><td>29.9</td></t<>	14284 10786 23 8 30 34 824,87 479 0.009 11394 0.00 113	5.6																2.95	13.62		27.38	631.15	285.22	488707.55	<2.773	29.9
43.44                 77.5                 44.6                 77.5                 45.6                 77.5                 77.5                 77.5                 77.5                 77.5                77.5                 77.5                 77.5                 77.5                 77.5                 77.5                 77.5                 77.5                 77.5                 77.5                 77.5                 77.5                 77.5                 77.5                 77.5                77.5 </td <td>4384 1178 577 784 6877 787 787 787 787 787 787 787 787 78</td> <td>8.5</td> <td></td> <td>10.17</td> <td>37.83</td> <td></td> <td>51.10</td> <td>1509.57</td> <td>525.62</td> <td>487759.02</td> <td>131.41</td> <td>17.86</td>	4384 1178 577 784 6877 787 787 787 787 787 787 787 787 78	8.5																10.17	37.83		51.10	1509.57	525.62	487759.02	131.41	17.86
11777 28767 172 2876 170 289 5150 -0.001 164.02 2720 273 415.44 6 223 0.045 0.045 0.050 778 2876 2877 2878 2878 2878 2878 2878	1,1,   1,1,	4																2.93	11.18		30.92	631.28	267.52	489152.02	<2.837	6.44
27015         27015 <th< td=""><td>2015 43.77 172 89.00 1003470 85.89 0.004 12.27 14.2 48.43 0.004 0.004 5.005 5.004 19.2 14.0 24.0 12.3 4.0 4.0 4.0 2.2 14.2 14.0 14.2 14.2 14.0 14.2 14.2 14.0 14.2 14.2 14.2 14.2 14.2 14.2 14.2 14.2</td><td>14.</td><td></td><td></td><td></td><td></td><td></td><td></td><td>٧</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>7.78</td><td>68.47</td><td></td><td>149.40</td><td>1702.78</td><td>702.65</td><td>485535.92</td><td>&lt;2.833</td><td>5.74</td></th<>	2015 43.77 172 89.00 1003470 85.89 0.004 12.27 14.2 48.43 0.004 0.004 5.005 5.004 19.2 14.0 24.0 12.3 4.0 4.0 4.0 2.2 14.2 14.0 14.2 14.2 14.0 14.2 14.2 14.0 14.2 14.2 14.2 14.2 14.2 14.2 14.2 14.2	14.							٧									7.78	68.47		149.40	1702.78	702.65	485535.92	<2.833	5.74
9.9.5         9.0.5         1.0.5 <th< td=""><td>93.5 56.6 10.0 19.6 10.0 19.6 10.0 19.0 19.0 19.0 19.0 19.0 19.0 19.0</td><td>30.0</td><td></td><td></td><td></td><td>.,</td><td>•</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>15.20</td><td>246.27</td><td></td><td>254.10</td><td>2738.58</td><td>977.43</td><td>483325.27</td><td>&lt;2.792</td><td>8.40</td></th<>	93.5 56.6 10.0 19.6 10.0 19.6 10.0 19.0 19.0 19.0 19.0 19.0 19.0 19.0	30.0				.,	•											15.20	246.27		254.10	2738.58	977.43	483325.27	<2.792	8.40
40.40         56.56         56.56         56.70         57.88         667.70         57.89         667.70         57.89         67.70         57.89         67.70         57.89         67.70         57.89         67.70         57.89         67.70         57.89         67.70         57.89         67.70         57.89         67.70         57.89         67.70         57.89         67.70         57.89         67.70         57.89         67.70         57.89         67.70         57.89         67.70         57.80         67.80         67.80         67.80         67.80         67.70         47.71         48.89         48.77         48.77         48.77         48.77         48.77         48.77         48.77         48.77         48.77         48.77         48.77         48.77         48.77         48.77         48.77         48.77         48.87         48.77         48.77         48.77         48.77         48.77         48.77         48.77         48.77         48.77         48.77         48.77         48.77         48.87         48.77         48.77         48.89         48.77         48.89         48.77         48.89         48.77         48.89         48.77         48.89         48.77         48.89         48.77         <	4.04.0 95.66 0.36 7.28 10990.75 1709 0.026 59.44 0.77 2.01 0.02 0.02 0.02 0.02 0.03 0.03 0.03 0.03	7.6				_												7.03	49.17		89.46	1283.46	498.64	486244.45	<3.937	5.20
100.01         255.12         10.90         16.52         10.90         16.52         10.90         146.23         20.00         146.23         20.00         146.23         20.00         146.23         15.00         146.23         15.00         10.00         22.0         0.44         7.03         66.71         60.71         146.23         15.00         146.23         15.00         146.23         15.00         146.23         15.00         146.23         14.00         15.00         14.00         15.00         14.00         15.00         14.00         15.00         14.00	10.00   10.00   10.00   10.00   14.55   10.00   14.55   12.00   10.00   10.00   10.00   14.55   12.00   10.00   10.00   14.55   12.00   10.00   10.00   14.55   12.00   10.00   14.55   12.00   10.00   14.55   12.00   10.00   14.55   12.00   12.0	3.4																3.01	23.18		53.58	567.00	248.27	487943.72	<2.798	7.00
91.42         17.50         0.00         3.50         0.00         3.50         0.00         3.50         0.00         3.50         0.00         3.50         0.00         3.50         0.00         2.00         0.00         <	1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,	12.																7.03	66.71		136.01	1525.12	626.64	485848.53	46.77	17.53
0.33         1.43         1.00         1.53         1.54         0.00         1.53         0.00 <th< td=""><td>  10.20   1.51   1.52   1.004   1.005</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>6.05</td><td>60.65</td><td></td><td>77.13</td><td>1093.22</td><td>400.00</td><td>486837.33</td><td>&lt;2.784 2.084</td><td>5.20</td></th<>	10.20   1.51   1.52   1.004   1.005																	6.05	60.65		77.13	1093.22	400.00	486837.33	<2.784 2.084	5.20
65.38         15.37         0.74         13.05         0.74         13.05         0.74         13.05         0.74         13.05         0.74         13.05         0.74         13.05         0.74         13.05         0.74         13.05         0.74         13.05         0.74         13.05         0.74         13.05         0.74         13.05         0.74         13.05         0.75         0.75         0.07 </td <td>65.38         15.35         0.74         13.05         10.04         13.05         0.04         18.8         0.27         4.89         53.72         38.34         78.96         97.30         381.07         487.088.56         4.66           34.5         88.79         0.42         6.17         10040.99         15.18         0.026         54.84         0.09         0.77         10.95         0.07         0.03         0.75         0.07         0.03         0.75         0.16         2.89         13.94         21.54         29.50         518.63         226.49         488777.10         2.284           35.79         90.04         0.39         6.63         1004         0.05         61.51         0.07         0.05         0.02         0.04         0.05         0.02         0.04         0.05         0.02         0.04         0.05         0.02         0.04         0.05         0.02         0.04         0.05         0.04         0.05         0.02         0.04         0.05         0.04         0.05         0.04         0.05         0.04         0.05         0.04         0.05         0.04         0.05         0.04         0.05         0.04         0.05         0.04         0.05         0.05<td>9 6</td><td>•</td><td></td><td></td><td></td><td></td><td></td><td>13.89</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>7.55</td><td>62.56</td><td></td><td>104.66</td><td>1503.58</td><td>590.78</td><td>486113.85</td><td>66.88</td><td>5 25</td></td>	65.38         15.35         0.74         13.05         10.04         13.05         0.04         18.8         0.27         4.89         53.72         38.34         78.96         97.30         381.07         487.088.56         4.66           34.5         88.79         0.42         6.17         10040.99         15.18         0.026         54.84         0.09         0.77         10.95         0.07         0.03         0.75         0.07         0.03         0.75         0.16         2.89         13.94         21.54         29.50         518.63         226.49         488777.10         2.284           35.79         90.04         0.39         6.63         1004         0.05         61.51         0.07         0.05         0.02         0.04         0.05         0.02         0.04         0.05         0.02         0.04         0.05         0.02         0.04         0.05         0.02         0.04         0.05         0.04         0.05         0.02         0.04         0.05         0.04         0.05         0.04         0.05         0.04         0.05         0.04         0.05         0.04         0.05         0.04         0.05         0.04         0.05         0.04         0.05         0.05 <td>9 6</td> <td>•</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>13.89</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>7.55</td> <td>62.56</td> <td></td> <td>104.66</td> <td>1503.58</td> <td>590.78</td> <td>486113.85</td> <td>66.88</td> <td>5 25</td>	9 6	•						13.89									7.55	62.56		104.66	1503.58	590.78	486113.85	66.88	5 25
44.50         64.2         61.7         60.40         61.7         60.40         61.7         60.40         60.7	4.50         6.87 9         6.42 0.04         6.17 0.040.99         15.18 0.02         6.48 0.04         6.09 0.07 0.09         6.00 0.00 0.00         6.00 0.	3.7				•			27.60									4.89	53.72		78.96	937.30	381.07	487098.56	4.56	7.40
35.79         90.04         6.39         6.65         108 41.0         6.55         90.04         6.55         6.57         6.45         9.41         41.13         488066.52         6.41         9.04         0.05         6.45         9.17         6.13         6.45         9.41         41.13         488066.5         6.42           107.13         234.30         1.02         22.16         10700.7         4.35         1.00         1.48         1.48         380.6         0.014         0.06         3.75         5.13         5.44         9.41         1.11         41.13         5.65         7.78         480.78         2.28         6.89         7.78         9.28         0.74         480.73         9.28         0.04         0.05         1.26         0.17         3.54         3.66         3.27         4.07         0.17         3.54         3.66         3.77         4.06         0.01         1.06         0.17         0.05         1.28         0.06         4.07         0.07         0.07         0.07         0.07         0.07         0.07         0.07         0.07         0.07         0.07         0.08         3.73         0.01         0.07         0.08         0.09         0.04         4.06	35.79 90.04 0.39 6.63 10814.10 15.50 0.005 61.51 0.77 0.36 22.3.4 0.006 0.01 0.89 0.15 0.22 21.0 0.007 0.81 0.80 0.148 0.148 0.00 0.01 0.80 0.01 0.80 0.148 0.148 0.00 0.148 0.148 0.00 0.148 0.148 0.00 0.148 0.148 0.148 0.00 0.148 0.1	4.4							15.18									2.48	13.94		29.50	518.63	226.49	488777.10	<2.841	5.74
107.13         224.30         1.02         2.16         1070 (10.0)         2.24.30         1.02         2.16         1.07 (10.0)         1.25 (10.0)         1.25 (10.0)         1.24.30         1.04 (10.0)         2.17 (10.0)         1.04 (10.0	107.13   234.30   1.02   2.16   107007   4.35   1.02   2.26   1.26   0.003   1.26 30   1.02   1.26 3   1.02   1.26 3   1.02   1.02   1.02 3   1.02   1.02 3   1.02	3.6					•		15.50									2.52	13.72		39.77	535.58	251.17	488066.52	6.42	4.80
488 1870 051 928 1078444 2141 0008 72.52 1.03 0.42 259.22 0.014 0.03 1.18 0.17 3.54 36.0 28.57 724.98 296.67 487723.49 <2.813 2.81 0.56 1.08 0.08719 24.16 0.038 82.38 0.88 0.64 357.13 0.012 0.05 1.25 0.16 4.08 32.08 29.57 13.72 27.42 1.05 1.05 1.05 1.05 1.05 1.05 1.05 1.05	49.85 118.70 0.51 9.28 107844 2141 0.008 72.52 1.03 0.42 259.22 0.014 0.03 118 0.17 3.54 36.0 26.7 3.57 36.0 29.7 374.99 2.996.7 49773349 2.2813 2.81 2.81 0.84 1.82 1 0.28 1.82 1 0.28 1.82 1 0.28 1.82 1 0.28 1.82 1 0.28 1.82 1 0.28 1.82 1 0.28 1.82 1 0.28 1 0.28 1.82 1 0.28 1.82 1 0.28 1.82 1 0.28 1.82 1 0.28 1.82 1 0.28 1.82 1 0.28 1.82 1 0.28 1.82 1 0.28 1.82 1 0.28 1.82 1 0.28 1 0.28 1.82 1.82 1 0.28 1.82 1.82 1 0.28 1.82 1 0.28 1.82 1.82 1 0.28 1.82 1.82 1 0.28 1.82 1.82 1.82 1.82 1.82 1.82 1.82 1	10.4	•				•	-	13.51		26.90							7.75	51.33		94.11	1411.93	559.87	486366.66	<2.810	5.56
63.7         132.41         0.66         10.80         10.86         10.82         0.65         807.36         842.80         48729.923         2.771           35.81         82.81         0.66         10.80         10.86         0.01         0.01         1.00         0.15         2.49         14.28         19.79         22.90         607.79         48824.31         15.27           35.81         82.81         0.46         10.80         10.86         0.01         0.01         0.05         1.78         0.01         0.02         1.78         0.09         6.10.79         48824.31         1.58         0.01         0.02         1.18         0.20         77.47         59.03         1.42         1.59.29         6.07.79         48721.38         487780.16         2.79           51.75         15.86         0.56         0.00         15.24         1.9         0.76         50.00         1.18         0.20         7.74         59.03         1.64.27         55.00         48770.16         2.80         48770.16         2.80         48770.16         2.80         48770.16         2.80         48770.16         2.80         48770.16         2.80         48770.16         2.80         48770.16         2.80 <td< td=""><td>5637 13241 0.66 1080 1089719 24.16 0.036 82.38 0.88 0.64 357.13 0.012 0.05 1.25 0.16 4.08 32.26 32.28 60.56 807.36 342.80 48773923 42.791 35.81 82.81 0.48 7.06 1099133 15.01 0.036 50.94 0.73 0.73 17.44 0.16 0.01 1.00 0.15 2.49 1428 178.2 17</td><td>9.7</td><td></td><td></td><td></td><td></td><td>•</td><td></td><td>21.41</td><td></td><td>72.52</td><td></td><td></td><td></td><td></td><td></td><td></td><td>3.54</td><td>36.60</td><td></td><td>67.93</td><td>724.98</td><td>299.67</td><td>487723.49</td><td>&lt;2.813</td><td>4.67</td></td<>	5637 13241 0.66 1080 1089719 24.16 0.036 82.38 0.88 0.64 357.13 0.012 0.05 1.25 0.16 4.08 32.26 32.28 60.56 807.36 342.80 48773923 42.791 35.81 82.81 0.48 7.06 1099133 15.01 0.036 50.94 0.73 0.73 17.44 0.16 0.01 1.00 0.15 2.49 1428 178.2 17	9.7					•		21.41		72.52							3.54	36.60		67.93	724.98	299.67	487723.49	<2.813	4.67
3581 8281 048 706 1029183 1501 0.008 50.94 0.73 0.35 17154 0.166 0.01 1.00 0.15 249 14.28 19.79 29.0 510.79 210.70 488644.31 15.92 17.54 2.89 14.28 19.79 210.70 488644.31 15.92 17.54 2.89 14.28 14.29 14.2	3581 8281 048 76 1020183 1501 0.008 50.94 0.73 0.35 17154 0.166 0.01 1.00 0.15 249 14.28 19.79 28.90 510.79 210.70 486644.31 15.92 112.63 254.20 1.04 2.02 16.02 10.02 1.04 2.02 1.05 2.49 14.28 19.79 2.90 510.79 210.70 2.001 15.92 112.63 254.20 1.04 2.02 1.05 10.00 10.02 1.18 0.20 3.73 19.38 17.47 59.03 17.42 16.29 8 601.25 486221.38 < 2.795 11.72 26.76 11.72 26.76 11.72 26.70 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1	5.8				•	•		24.16		82.38							4.08	32.26		99.09	807.36	342.80	487239.23	<2.791	4.73
112.63 254.20 1.04 20.26 10436.66 47.42 0.003 139.77 1.92 0.84 434.36 0.012 0.04 2.39 0.36 7.92 77.47 59.03 124.22 1552.98 601.25 486221.38 <2.775 15.86 0.58 0.52 1051.19 21.88 0.005 82.14 0.89 0.75 305.03 0.010 0.02 1.18 0.20 3.73 19.38 13.10 116.13 66.10 7 48689.52 67.92 157.82 0.70 12.98 10.74 15.24 1.04 0.64 1.04 0.04 1.04 0.04 1.04 0.05 1.14 0.	112.63 254.20 1.04 20.26 10436.66 47.42 0.003 139.77 1.92 0.84 434.36 0.012 0.04 2.39 0.36 7.92 77.47 59.03 124.22 1562.98 601.25 486221.38 <2.755 125.86 0.58 9.82 1051319 21.88 0.005 82.14 0.89 0.75 305.03 0.010 0.02 1.18 0.20 3.73 19.38 31.56 53.45 757.15 336.93 487780.16 <2.810 13.22 627.89 0.95 20.09 1054189 48.33 0.002 49.22 1.01 0.76 511.78 0.012 0.03 2.41 0.39 7.85 66.53 85.0 38.08 100.25 956.00 394.07 487140.01 <2.895 47.75 11786.03 20.77 <0.001 78.52 1.14 0.42 233.34 0.011 0.01 1.11 0.28 3.25 24.49 30.17 68.03 71.01 320.21 487023.20 <2.893 **All elements are in ppm.**	4.5							15.01		50.94	0.73						2.49	14.28		29.90	510.79	210.70	488644.31	15.92	5.53
51.75 125.86 0.58 9.82 10513.19 21.88 0.005 82.14 0.89 0.75 306.03 0.010 0.02 1.18 0.20 3.73 19.38 31.56 55.45 75.75 335.93 48778016 <2.810 13.72 267.08 0.95 20.09 1054189 48.93 0.004 15.24 1.91 0.76 511.78 0.012 0.03 2.41 0.39 7.65 6.63 6.63 6.63 10.03 16.615.13 66.107 4658695.52 <2.834 67.92 157.82 0.70 12.99 10744.95 28.85 0.002 94.29 1.01 0.63 355.18 0.012 0.03 1.74 0.26 4.87 55.0 38.08 100.25 956.00 394.07 487740.10 <2.895 47.74 17.86 0.75 1.77 11786.03 20.77 <0.001 76.52 1.14 0.42 233.34 0.011 0.01 1.11 0.26 3.25 24.49 30.17 68.03 71.001 320.21 487023.20 <2.892 1.14 0.14 0.14 0.14 0.14 0.14 0.14 0.14	51.75 125.86 0.58 982 10513.19 21.88 0.005 82.14 0.89 0.75 306.03 0.010 0.02 1.18 0.20 3.73 19.38 31.56 55.45 757.15 336.93 48778016 <-2.810 11.372 267.69 0.95 20.09 1054.189 21.88 0.004 152.44 1.91 0.76 51.78 0.012 0.03 2.41 0.39 7.65 6.653 6.653 98.08 10.9 1651.18 661.07 485869.52 <-2.894 47.5 17.80 0.03 10.5 965.00 39.07 487140.01 <-2.895 47.45 118.89 0.46 7.77 11786.03 20.77 <-0.001 78.52 1.14 0.42 233.34 0.011 0.01 1.11 0.26 3.35 24.49 30.17 68.03 710.01 320.21 487023.20 <-2.892 73.26 168.31 0.60 12.33 10933.54 31.21 0.004 96.37 1.24 0.64 304.40 0.014 0.02 1.66 0.29 5.11 41.43 39.76 76.30 1023.51 413.03 487025.11 <-2.829 **All elements are in ppm.*	12.					•	-	17.42	0.003	39.77	1.92	•					7.92	77.47		124.22	1562.98	601.25	486221.38	<2.795	96.9
113.7.2 267.69 0.99 20.09 10641.89 48.93 0.004 152.44 1.91 0.76 511.78 0.012 0.03 2.41 0.39 7.65 66.63 65.73 131.09 1615.13 661.07 486869.52 <2.884 67.92 157.82 0.70 12.96 10744.95 28.58 0.002 94.29 1.01 0.63 355.18 0.012 0.03 1.74 0.26 4.87 58.50 38.08 100.25 956.00 394.07 487140.01 <2.895 47.45 118.99 0.46 7.77 11786.03 20.77 <0.001 78.52 1.14 0.42 233.34 0.011 0.01 1.11 0.26 3.25 24.49 30.17 68.03 710.01 320.21 487023.0 <2.895 713.09 1023.51 0.004 96.37 1.24 0.64 304.40 0.014 0.02 1.66 0.29 5.11 41.43 39.76 76.30 1023.51 413.03 487025.11 <2.829	113.72 26.759 U39 2009 1064189 48.93 0.004 152.44 1.91 0.76 511.78 0.012 0.03 1.41 0.28 7.65 66.63 63.7 13.19 1615.13 661.07 4808655.2 <2834 67.7 17.8 17.8 1.2 2.0 1.0 1.0 1.2 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0		•						21.88	0.005	82.14	0.89	., .		_		0.20	3.73	19.38		53.45	757.15	336.93	487780.16	<2.810	5.80
67.92 157.82 0.70 12.96 10744.96 28.58 0.002 94.29 1.01 0.63 355.18 0.012 0.03 1.74 0.26 4.87 58.50 38.08 100.25 956.00 394.07 487140.01 1.44 0.42 233.34 0.011 0.01 1.11 0.26 3.25 24.49 30.17 68.03 710.01 320.21 487023.20 1.32 10833.54 31.21 0.004 96.37 1.24 0.64 304.40 0.014 0.02 1.66 0.29 5.11 41.43 39.76 76.30 1023.51 413.03 487025.11 1.14 1.14 1.14 1.14 1.14 1.14 1.14	67.92 157.82 0.70 12.96 10744.95 28.58 0.002 94.29 1.01 0.63 355.18 0.012 0.03 1.74 0.26 4.87 58.50 38.08 100.25 956.00 394.07 487140.01 47.45 118.96 0.46 7.77 11786.03 20.77 <0.001 78.52 1.14 0.42 233.34 0.011 0.01 1.11 0.26 3.25 2.449 30.17 68.03 710.01 320.21 487023.20 73.26 168.31 0.60 12.33 10933.54 31.21 0.004 96.37 1.24 0.64 304.40 0.014 0.02 1.66 0.29 5.11 41.43 39.76 76.30 1023.51 413.03 487025.11 *All elements are in ppm.	12.	_						18.93	0.004	52.44	1.91	4,				0.39	7.65	66.63		131.09	1615.13	661.07	485869.52	<2.834	6.16
47.45 118.96 0.46 7.77 11786.03 20.77 <0.001 78.52 1.14 0.42 233.34 0.011 0.01 1.11 0.26 3.25 24.49 30.17 68.03 710.01 320.21 487023.20 373.56 168.31 0.60 12.33 10933.54 31.21 0.004 96.37 1.24 0.64 304.40 0.014 0.02 1.66 0.29 5.11 41.43 39.76 76.30 1023.51 413.03 487025.11 31.11 1.12 1.12 1.12 1.12 1.12 1.12	47.45 118.96 0.46 7.77 11786.03 20.77 <0.001 78.52 1.74 0.42 233.34 0.011 0.01 1.11 0.26 3.25 24.49 30.17 68.03 710.01 320.21 487023.20 73.26 168.31 0.60 12.33 10933.54 31.21 0.004 96.37 1.24 0.64 304.40 0.014 0.02 1.66 0.29 5.11 41.43 39.76 76.30 1023.51 413.03 487025.11 **All elements are in ppm.	9.0								0.002	94.29	1.01	.,		012 0.0	1.74	0.26	4.87	58.50		100.25	926.00	394.07	487140.01	<2.895	4.69
73.28 168.31 0.60 12.33 10933.54 31.21 0.004 96.37 1.24 0.64 304.40 0.014 0.02 1.66 0.29 5.11 41.43 39.76 76.30 1023.51 413.03 4	73.26 168.31 0.60 12.33 10833.54 31.21 0.004 96.37 1.24 0.64 304.40 0.014 0.02 1.66 0.29 5.11 41.43 39.76 76.30 1023.51 413.03 4 *All elements are in ppm.	9.							٧.	0.001	78.52	1.14			011 0.0	1.1		3.25	24.49		68.03	710.01	320.21	487023.20	<2.832	2.67
	*All elements are in ppm.	œi œi	75 73.	26 168.	.31 0.6	12.	33 109			0.004	96.37	1.24	,		014 0.0	1.66		5.11	41.43	39.76	76.30	1023.51	413.03	487025.11	<2.829	5.50

Appendix C: Eastern Sunda arc zircon trace element chemistry

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Analysis ID	3	ολ	ù	En	gg	Ť	운	eg	3	QN		<b>a</b>		j,							ΛD	ZŁ	e E	F
BHF-03_zr29	5.83	70.56	155.03	0.83	14.87	10925.15	28.70	0.002	88.26	0.82		341.05	0.007	0.04	2.57 0.15	5 5.34				_	375.18	487115.76	<2.786	3.69
BHF-03_zr3	4.25	42.89	100.74	0.46	8.39	10635.04	18.1	0.005	64.46	0.75	0.66	233.51	0.005	0.02							275.90	488088.70	<2.937	4.17
BHF-03_zr30	8.16	81.00	192.82	0.75	13.52	10/15.44	98. 80	<0.001	117.05	1.31		431.30			1.83 0.27	7 5.45					490.34	486677.10	<2.793	5.15
BHF-03_ZF31	9.20	76.77	195.03	20.0	12.7.7	10/49.09	54.45	×0.001	113.35	05.7	20.0	325.09	0.000	70.0				40.85 45.70	93.80	0000	488.05	480888.53	×3.497	82.4
BHF-03_4132	0.0	43.64	100.09	00	0.00	10611 25	50:72	00.00	22.20	0. 0		237.22									305.04	4672333	7, 823	5 6
BHF-03_2/34	8.54	78.25	183.64	62.0	14.52	11530.71	33.06	0.008	109.73	1.1		361.32			1.87 0.27	7 5.25					473.95	486304.77	<2.990	3.82
BHF-03_zr35	6.50	60.73	140.20	0.81	12.69	10491.71	25.27	0.011	81.36	76.0		228.43									339.16	487800.87	<2.748	90.9
BHF-03_zr36	5.39	53.25	130.10	0.70	9.37	9908.61	23.28	0.002	81.29	0.89		267.69									336.10	488305.23	<2.801	5.43
BHF-03_zr4	7.38	62.51	150.54	0.55	11.45	10751.07	27.17	<0.001	93.85	1.19		366.60			1.43 0.26						394.41	487200.03	<2.830	4.44
BHF-03_zr5	4.05	30.27	78.30	0.29	5.76	12180.39	13.31	9000	53.68	0.68		200.69									216.46	487240.48	<2.840	2.54
BHF-03_zr6	10.00	93.34	213.14	0.92	17.52	10666.71	39.05	0.020	118.82	1.39		387.38									521.65	486621.99	<2.817	5.98
BHF-03_zr7	5.36	36.00	90.87	0.41	6.97	12482.22	15.90	0.002	62.39	92.0		239.51									255.12	486766.64	<2.848	3.00
BHF-03_zr8	3.38	33.10	82.07	0.48	6.33	10024.70	14.35	<0.001	53.23	0.63	0.24	187.18						9.14 20.09			217.62	488859.54	<2.811	5.01
BHF-03_zr9	80.9	68.37	153.43	29.0	13.24	10407.67	27.58	0.004	92.26	96.0		339.91		0.04	2.08 0.18		_				382.14	487512.39	<2.820	4.95
GBF-01_zr1	21.69	344.58	672.47	2.94	74.31	9466.88	133.03	0.015	283.14	2.25		583.37									1380.20	482326.17	8.50	81.69
GBF-01_zr10	15.10	403.49	604.28	3.26	72.33	9470.97	140.97	0.030	194.35	1.71		1233.74						75.55 116.37			1005.05	480912.71	228.19	20.18
GBF-01_zr11	15.65	203.34	416.11	2.16	42.63	10304.80	79.78	0.023	187.76	1.50		447.73									894.62	484630.35	90.78	10.58
GBF-01_zr12	14.32	221.75	425.73	1.80	48.60	9297.06	90.39	<0.003	169.31	1.27		521.70	_		6.38 0.43	3 16.52		57.54 100.35			872.45	485375.67	<6.411	4.78
GBF-01_zr13	13.56	210.54	403.19	1.51	45.29	9113.56	85.49	<0.002	169.57	1.59	2.02	685.47									854.42	485242.66	<6.299	11.36
GBF-01_zr14	28.13	438.98	728.32	3.57	91.22	11227.30	161.37	0.026	284.72	3.25		1195.31					1 301.97		5 280.03		1453.43	478508.78	123.84	11.92
GBF-01_zr15	19.79	305.22	557.21	1.86	67.28	8988.18	119.67	0.020	201.99	2.05		568.42									1067.18	484102.24	37.12	9.79
GBF-01_zr16	35.40	295.06	636.57	1.84	52.98	9975.07	127.73	0.016	265.88	4.42	1.83	739.43					7 278.68	.68 152.13	3 212.22		1364.94	481974.11	17.07	20.57
GBF-01_zr2	41.52	346.63	704.02	2.35	69.79	9135.95	137.47	0.146	288.25	4.80		726.58				.,					1451.18	481570.36	313.13	28.77
GBF-01_zr3	11.89	140.44	333.12	1.02	21.33	10058.30	60.28	0.023	164.82	2.10		435.04						.77 77.55		5 1933.46	777.30	485816.58	66.46	13.83
GBF-01_zr4	18.55	252.27	530.82	1.42	44.55	10389.52	101.21	0.014	226.17	3.24		537.05				17.57	7 142.80		5 87.34		1124.29	483365.06	11.72	11.21
GBF-01_zr5	29.21	318.02	650.58	2.42	65.69	9215.76	127.56	0.022	275.53	2.65		625.98									1312.65	482780.83	<3.199	16.97
GBF-01_zr6	19.79	208.64	442.97	1.51	40.72	9171.79	85.39	0.035	194.40	3.08		629.28						.12 98.49		2734.13	935.28	484922.07	36.81	12.91
GBF-01_zr7	24.82	200.19	442.55	1.37	36.10	10161.55	83.78	9000	197.15	3.36		557.61									955.85	484314.47	<2.782	16.01
GBF-01_zr8	42.01	302.01	621.75	2.00	57.81	9852.61	121.28	0.043	257.92	4.74		786.02			6.36 1.04						1272.65	481867.78	108.93	21.26
GBF-01_zr9	18.68	244.15	497.86	2.90	52.88	8899.72	49. 56. 49. 56.	0.010	214.35	1.94	2.62	522.22	0.018	0.13	7.73 0.50	0 18.52		.19 108.03		3017.50	1037.53	484979.09	5.53	6.79
GBE-03_47	00.09	511.00	959.55	2.00	112.03	11373.47	208.36	0.000	311.60	3.40	•	1430.33		•					3 700.21		17.28.00	47 1360.37	138.31	0.4.0
GBE-03 273	15.52	226 12	453.30	2 6	50.40	0487.43	03.50	00.00	188.62	0.78		678.20									938 21	484254 83	6 364	10.55
GBF-03_zr4	15.07	295.72	667.17	127	46.51	11988.07	131.60	0.004	295.40	1.10		1493.95	3.400	0.03		20.17	7 215.65			4116.23	1548.36	478212.97	×8.351	5.68
GBF-03 zr5	43.70	494.36	934.66	1.22	104.76	11847.31	182.30	0.048	354.67	8.15		1645.87									1885.64	475107.81	32.45	17.07
GBF-03_zr6	31.36	299.32	629.79	4.53	70.87	15815.94	122.82	0.486	292.59	5.20		•			13.87 3.70	0 21.98				7 4411.22	1431.11	469996.99	3942.16	18.75
JER-01_zr1	4.07	56.21	112.63	1.24	14.64	10079.94	21.29	0.005	61.51	0.57		212.95							3 27.48		259.58	488432.76	<2.791	5.34
JER-01_zr10	7.38	90.72	191.15	1.18	18.61	9765.33	35.99	0.003	102.88	0.92		326.48						43.73 44.04			451.23	487617.90	<2.803	7.35
JER-01_zr11	2.65	23.97	59.94	0.28	4.30	10427.08	10.53	<0.001	41.53	0.49		134.15									158.18	488874.30	9.27	4.59
JER-01_zr12	4.55	49.49	109.12	0.97	10.85	10010.53	19.84	0.004	80.69	0.57		230.37						25.44 26.61			284.55	488455.06	<2.801	5.21
JER-01_zr13	4.43	45.17	109.21	0.67	8.46	9697.44	19.44	0.107	68.50	0.83		207.03									282.59	488372.25	301.05	8.65
JER-01_zr14	2.26	24.50	28.87	0.33	5.05	10452.98	10.13	<0.001	41.82	0.52		183.44			0.76 0.07						162.62	488777.60	<2.822	3.45
JER-01_zr15	3.53	42.51	106.24	0.68	8.10	9925.11	18.31	0.007	89.69	69.0	0.57	235.91									279.79	488595.83	<2.833	6.29
JER-01_zr16	13.50	145.05	316.03	1.68	28.82	9931.42	29.38	0.005	160.43	1.61		502.62				_					718.54	485853.59	<2.854	8.63
JER-01_zr17	10.96	116.87	267.84	1.42	20.59	9707.93	49.24	<0.001	147.05	1.49		408.24								_	625.83	486734.85	<2.875	6.60
JER-01_zr18	3.32	28.15	67.85	0.45	5.75	10947.08	12.18	0.004	45.93	0.58		200.43								_	177.62	488258.18	6.77	5.21
JER-01_zr19	2.79	33.39	75.08	0.58	7.58	10128.86	13.65	0.002	46.92	0.50	0.54	180.05	0.007	0.02	1.13 0.13			10.36 17.51	1 19.34	465.68	191.07	488857.70	<2.803	5.01
JER-01_212	2.00	5.70	167.47	0.0	5.50	0041.90	9.00 9.00	0.0.0	40.04	0.00	5.0	102.07	0.030		170 0.13	00		0.07			110.33	460246.73	7 000	1.5.4
JEK-01_zrz0	20	70.10	157.47	٥./٥	10.62	9941.05	70.91	0.000	102.33	68.0	\$ C.O	791.90	0.0.0								4.12.33	48 /945.29	<2.80o	0.87
		*AII ei	$^*$ All elements are in ppm.	ts are	id ui a	m.																		

Appendix C: Eastern Sunda arc zircon trace element chemistry

F	44	6.38	6.37	7.60	6.79	37.76	5.98	5.10	20.5	97.9	4.81	3.10	5.34	4.45	8.00	3.72	6.36	4.49	6.15	4.73	5.41	5.03	4.33	4.44	6.24	5.22	6.45	5.38	3.74	96.6	4.99	× × ×	6.73	8.43	8.19	5.14	5.86	4.98	5.73	69.9	8.99	7.34	34.24	6.93	4.08	5.22	7.38	8.31	
Ē.	707 67				<2.755	_			3 70		<2.839		<3.122	<2.809	45.15	<2.773	7.90	19.20	47.44	4.51	<2.783	<2.770	<2.755	15.19	113.16	<2.773	<2.814	<2.847	<3.477	<2.830	<2.767	29.70	62.7.6	<2.730	<2.788	<2.793	<2.839	<2.789	<4.112	<2.836				_	~			<4.272	
_			_				488403.20							488190.38		_			_				<b>~</b>	33.71				_				488692.06									_	188253.94	186857.02	187432.74	74.21	186636.96	187832.76	. 21.67	
Z	407520 22	4877	4892	48778	4880	4886	48840	40004	486911.01	4861	4879	4849	488618.44	4881	48718	4875	486246.21	4880	487717.80	48638	•	•	•	•	•	4873	4877	4876	488232.27	4854	4870	4880	4877	4877	48848	4890	4885	4865	48658	488445.74	4866	4882	4868	4874	486874.2	48663	4878	488201.67	
Ž	206 62	505.90	146.90	386.83	422.47	73.98	130.13	479.20	576.01	630.08	324.22	444.04	308.71	253.27	505.50	387.68	655.05	409.85	319.43	474.78	297.88	932.85	460.57	180.06	438.96	468.58	458.62	402.66	260.14	586.09	326.53	213.73	335.09	331.45	400.94	155.61	256.92	479.03	545.31	326.52	443.16	403.85	435.20	454.14	379.58	428.87	427.91	364.76	
>	1100 54	1433.52	337.04	963.02	1044.56	167.57	292.15	1470 94	1537 44	1688 62	743.76	1034.15	718.35	594.44	1386.64	890.48	1644.80	1159.23	835.27	1208.40	772.99	2992.82	1147.03	418.98	1119.18	1184.64	1088.49	924.09	624.79	1838.98	833.84	1016.10	1011.95	983.63	922.14	348.32	587.65	1171.87	1282.42	735.14	1136.67	924.74	1061.51	1103.27	946.79	1038.33	997.02	905.91	
, ,	00 00	58.61	14.31	53.87	50.86	13.12	15.51	30.10	05.43	114 24	63.39	81.52	38.22	52.99	64.19	56.52	107.67	54.80	48.87	78.98	46.30	226.39	68.13	43.84	63.30	74.01	57.85	53.38	39.92	206.68	88.12	20.30	31.52	27.32	61.28	32.22	49.46	47.77	104.31	52.51	59.37	65.30	106.09	81.86	56.14	87.07	74.53	59.86	
Ę	20.44	49.95	13.28	36.90	40.00	9.76	11.83	33.92	55.78	61.63	29.99	41.15	28.91	23.48	49.88	35.95	62.40	40.72	30.79	45.51	29.36	95.71	43.57	16.87	40.99	44.90	42.99	37.36	24.81	59.52	31.54	20.22	34.62	34.25	37.08	14.21	23.90	46.05	51.46	30.21	43.34	38.02	41.96	43.36	36.36	40.07	40.47	35.99	
£	45.22	54.79	7.04	35.63	32.01	5.45	6.73	40.69	77.45	107.83	54.48	54.31	20.69	33.83	58.84	33.87	85.72	47.06	50.44	62.93	32.45	306.97	56.19	29.52	54.34	55.62	40.12	29.23	28.48	501.28	63.51	14.6/	22.37	16.06	35.86	16.08	27.25	49.58	96.39	29.15	52.11	39.39	94.01	55.74	35.89	58.17	45.20	42.41	
٩	20 8	9.85	1.69	4.84	5.28	0.91	1.37	7.35	0000	0.35	3.63	5.85	3.43	2.90	9.26	4.49	8.01	7.29	5.03	09.9	4.24	18.10	96.9	2.12	92.9	6.17	5.35	4.30	3.62	13.47	4.07	3.07	0.20	5,58	4.01	1.82	2.77	5.57	5.58	3.45	5.98	4.08	5.61	5.42	5.08	4.92	4.47	4.74	
Ta	9	0.19	0.08	0.25	0.24	0.10	0.11	0.20	0.46	0.40	0.28	0.26	0.22	0.21	0.27	0.23	0.44	0.16	0.23	0.35	0.24	0.69	0.23	0.23	0.28	0.34	0.31	0.30	0.16	0.68	0.31	7.0	0.16	0.26	0.32	0.14	0.23	0.39	0.50	0.24	0.33	0.32	0.38	0.33	0.31	0.40	0.36	0.28	
Sm	2 40	5.91	0.63	1.66	2.14	0.20	0.47	90. 1		3.44	1.29	2.51	1.22	0.91	5.14	1.69	2.54	4.37	2.41	2.35	1.28	8.37	3.21	0.96	3.51	2.61	2.78	1.27	1.43	8.30	1.76	27.5	3.63	2.22	1.5	0.64	1.13	2.15	1.65	1.07	2.28	1.62	1.80	1.59	2.32	2.18	1.66	2.50	
ā	<u>,</u>	0.20	0.03	0.04	0.05	0.08	0.04	0.03	0.03	0.00	0.02	0.06	0.04	0.02	0.15	0.03	0.05	0.11	0.05	0.03	0.02	0.11	0.08	0.02	0.09	0.06	0.07	0.03	0.04	0.21	0.05	0.03	0.0	0.04	0.03	0.02	0.03	0.03	0.03	0.02	0.08	0.03	0.16	0.03	90.0	90.0	0.03	0.08	
a	0.037	0.116	0.245	0.022	0.025	0.325	0.054	0.010	0.030	0.022	0.019	0.020	0.007	0.011	0.026	0.008	0.024	0.020	0.026	0.017	0.018	0.107	0.023	0.099	0.027	0.015	0.014	0.011	0.012	0.141	0.025	0.781	0.006	0.007	0.012	0.007	0.014	0.012	0.047	0.009	0.046	0.017	0.171	0.020	0.039	0.026	0.016	0.010	
۵	25.2.62	323.33	183.62	285.19	297.21	128.60	144.85	341.47	30.284	347.34	221.44	164.27	160.36	189.45	268.53	348.39	430.79	294.85	224.91	342.12	183.46	704.68	290.07	178.26	370.32	314.43	256.06	235.48	208.97	369.18	296.78	27.0.25	171.39	229.20	242.01	173.41	223.99	366.35	352.00	222.89	352.94	244.25	281.09	314.35	307.91	352.50	323.24	205.58	
P	4 70	2.83	0.48	0.57	0.83	0.49	0.30	00.0	0.03	5 4	0.58	1.01	0.49	0.48	2.88	0.55	1.03	1.96	96.0	06.0	0.55	2.63	1.57	0.37	1.60	0.99	1.51	0.56	0.39	4.78	0.66	0.54	1.16	0.64	0.59	0.25	0.42	0.67	0.68	0.40	1.10	0.51	1.21	0.80	0.67	0.80	0.50	1.00	
g	0 70	0.67	0.48	0.77	76.0	0.50	0.47	0.00	6	2 44	1.33	0.87	0.88	0.81	1.05	0.78	1.98	0.72	1.14	1.29	0.97	2.87	1.06	0.67	1.10	1.35	1.08	1.16	0.56	3.50	1.05	1.70	9-0	0.79	1.17	09.0	0.77	1.56	1.87	1.00	1.14	1.19	1.35	<del>2</del> .	96.0	1.42	1.46	0.92	
3	00 00	118.19	36.68	92.09	101.35	18.95	32.92	113.75	136.44	146.60	79.18	104.65	76.14	62.29	118.12	97.00	156.68	96.32	77.25	112.95	70.87	205.43	110.11	43.98	106.27	112.42	108.98	99.66	63.56	127.81	75.12	947.49	72.12	06.69	97.05	38.39	61.41	109.13	124.36	78.74	100.41	99.31	98.78	108.93	86.43	99.16	103.66	84.98	
2	2000	0.010	0.00	0.021	9000	0.328	0.050	0.002	0000	0.000	<0.001	0.002	<0.001	0.007	0.058	<0.001	0.003	0.009	0.049	0.003	<0.001	0.010	0.004	0.064	0.100	0.004	0.004	<0.001	<0.001	0.012	0.009	670.0	0.00	<0.001	0.002	<0.001	<0.001	<0.001	0.005	<0.001	0.102	0.002	0.425	0.003	0.005	0.018	0.002	<0.001	
울	22 22	44.76	9.73	28.18	30.92	4.83	8.39	26.5	44.61	40.54	21.49	29.27	21.06	17.35	42.16	25.35	47.32	35.10	24.94	35.63	23.21	98.98	34.09	12.26	33.46	35.26	31.65	26.18	18.99	57.83	24.16	25.44	30.31	30.47	26.36	10.30	16.85	34.23	37.08	21.37	33.90	27.17	31.75	31.94	27.93	29.71	29.29	27.12	
¥	10006 27	9134.64	9823.69	0119.17	9610.71	0511.61	11172.76	00.30.00	97 30.90	0540.66	10471.47	13922.66	9894.14	98.7590	9982.55	10412.60	10205.57	9338.63	10582.48	11259.64	9953.12	11362.00	10386.54	10892.58	9477.60	10105.70	9938.51	10441.43	10484.21	10649.60	11343.32	9943.69	10490.37	10366.70	9359.70	10125.28	10086.58	11086.91	10755.79	9889.35	10803.17	9644.68	10145.09	10162.52	1320.48	1253.77	9833.95	9894.91	
pg	24.07			_			3.54 11							7.50 10	28.31	11.79 10						•						•				8.54				4.48 10	•	•	•		_					~			ppm.
Ē	1 60			•	_		0.26				2.78	1.11	97.0	0.62	2.42 2	0.91					0.88			0.51	1.63 2	_						0.42			0.63	0.28	0.46				0.77		0.82					0.74	are in ppm
ii ii	, 20 124				_		48.64 (				122.85 (	165.54	118.14 (	98.36	215.21	144.41 (																93.92																146.23 (	ents a
2	4			•	·		20.05		·					41.45		59.91																42.82																66.00	*All elements
3							2.37							7.55																		5.19																8.07	<sup>∓</sup> AII
Ols	5	zr22	zr3	zr4	zr5	Szr6	Zr7	017, 014	•					- 4 -				•					•											- T	: <u>1</u> 5	116					•			•			1126	:127	
Analysis ID	100 01	JER-01 zr22	JER-01_zr3	JER-01_zr4	JER-01_zr5	JER-01_zr6	JER-01_zr7	JER-01_Zro	BOOD 277	LB009_211	LB009_zr11	LB009 zr12	LB009_zr13	LB009_zr14	LB009_zr15	LB009_zr16	LB009_zr17	LB009_zr18	LB009_zr19	LB009_zr2	LB009_zr20	LB009_zr21	LB009_zr22	LB009_zr3	LB009_zr4	LB009_zr5	LB009_zr6	LB009_zr7	LB009_zr8	LB009_zr9	LB018_zr10	LB018_Zrl11	LB018_2112	LB018 zr14	LB018_zr15	LB018_zr16	LB018_zr17	LB018_zr18	LB018_zr19	LB018_zr2	LB018_zr20	LB018_zr21	LB018_zr22	LB018_zr23	LB018_zr24	LB018_zr25	LB018_zr26	LB018_zr27	

Appendix C: Eastern Sunda arc zircon trace element chemistry

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Analysis ID	Ce	Dy	ш	Eu	P5	Ξ	운	Га	T.	qN	PN	<b>_</b>									Υb	Zr	Fe	F
LB018_zr28	9.88	94.76	204.03	0.95	19.77	11120.86	38.15	900.0	111.75	1.01	1.52	341.49	0.021					_		3 1264.45	489.94	486431.69	<2.794	4.90
LB018_zr29	6.19	38.48	95.43	0.52	8.03	10063.44	16.46	0.089	60.83	0.89		213.73	_									488610.37	2.60	6.20
LB018_zr3	12.82	98.91	212.26	1.10	21.67	11133.79	39.39	0.189	115.74	1.23		379.65	0.029									486222.68	<2.854	4.33
LB018_zr30	88.6	68 98	183.91	0.70	15.86	10935.98	33.43	0.004	104.63	1.20		345.43								1113.56		486799.09	<2.803	7.4 2.0
LB018 zr32	10.58	84.8	206.08	5 1	21.36	10375.49	38.29	0.005	110.63	0.98	,	367.79	0.023									486901.66	<2.796	4.45
LB018_zr33	11.88	79.42	192.03	0.69	15.11	10956.14	33.73	<0.001	109.62	1.56		334.95										486702.33	<2.817	5.41
LB018_zr34	11.54	134.99	315.15	0.95	26.59	9716.87	58.08	0.003	147.66	1.97	•	468.62										486315.78	<2.808	12.17
LB018_zr35	11.16	65.54	156.56	09:0	13.18	11334.85	29.12	0.004	89.26	1.36	.,	344.37										486726.90	<3.581	5.07
LB018_zr36	13.34	80.50	202.25	0.68	14.30	10621.51	35.30	0.005	117.23	1.90												486835.49	9.89	5.99
LB018_zr37	9.81	59.86	140.91	0.67	11.11	10099.56	25.05	0.003	82.75	1.16												487972.15	<2.808	6.21
LB018_zr38	10.66	104.40	243.70	0.99	19.51	10065.39	44.08	0.013	124.99	1.37												486868.81	<2.843	7.02
LB018_zr39	6.28	45.09	113.00	0.53	8.17	10287.56	19.64	0.004	73.09	0.84												488237.59	<2.812	4.85
LB018_zr4	7.52	101.60	225.42	0.73	19.51	9801.70	42.78	0.002	105.03	1.19												487157.88	<2.865	10.13
LB018_zr40	11.85	88.88	148.99	0.70	13.13	11313.42	27.78	0.052	80.8	14.												486705.85	98.61	5.03
LB018_zr5	10.93	76.63	195.29	0.80	74.10	10262.64	33.80	0.003	121.01	1.64												487129.05	<2.874	6.49
LB0 10_210	20.33	0 0	200.12	0.30	50.77	1507.57	9.6	0.013	0 0 0	2.30												460230.47	070.00	50.4
LB018_zr7	13.95	135.50	282.68	0.1	31.11	9984.74	53.57	0.004	148.53	1.21												486026.86	<2.776	5.40
LB018_zr8	8.99	80.68	180.14	<del>.</del> .	17.68	97.37.08	33.19	0.027	102.49	1.00												487688.93	16.08	6.15
LB018_zr9	14.16	116.46	242.63	7.5	25.59	111/0.39	46.33	0.060	125.27	1.32												485959.13	19.12	5.73
LB024_ZFI	20.7	04.40	33.02	0.17	2.09	042240	0.00	0.002	74.07	0.50		•										400110.20	\$2.024 F 03	4. n
LB024_Z110	7.10	75.31	145.05	1 73	20.02	9775 01	28.01	0.010	78.24	0.71												488385.05	<2 840	2.30
LB024 zr12	3.90	29.64	71.98	0.36	5.63	10882.53	12.32	0.014	50.13	0.58												488380.13	<2.783	2.99
LB024_zr13	29.13	201.20	385.90	2.92	44.57	9499.36	76.64	0.018	189.89	2.58												485457.40	12.07	11.75
LB024_zr14	12.33	87.79	211.71	0.99	16.12	9719.21	37.54	<0.001	128.58	1.65												487550.83	<2.801	6.32
LB024_zr15	16.62	93.52	217.03	1.19	17.59	10603.27	39.26	0.005	130.02	1.99												486701.12	22.60	6.33
LB024_zr16	11.43	58.00	125.41	0.86	12.56	10501.20	23.19	0.145	70.49	1.05												487790.14	<2.857	4.46
LB024_zr17	29.04	185.58	305.82	4.69	58.89	9633.04	63.79	0.008	135.61	1.83				•								486043.04	<2.861	8.03
LB024_zr18	13.42	82.08	185.87	1.7	16.99	9916.78	35.04	0.082	101.85	1.55												487660.15	7.61	7.54
LB024_zr19	6.35	56.73	115.13	1.2	13.61	9363.90	21.54	0.032	68.10	0.62	1.31											488839.17	5.91	5.19
LB024_zr2	12.81	90.30	58.25	0.35	4.64	10996 23	38.T	0.002	39.53	0.64												487907.81	<2.798 <2.836	4 94
I B024 2r21	31.69	197 69	412.73	2.53	40.49	9473 99	78.30	0.003	208.25	3.25												485191 27	<2.805	10.68
LB024 zr22	3.76	28.10	69.69	0.43	5.49	9696.74	12.32	<0.001	47.20	0.60												489314.70	7.26	6.42
LB024_zr23	13.48	107.33	226.25	1.80	23.38	9618.62	42.87	<0.001	119.84	1.37												487349.42	<2.828	6.57
LB024_zr24	4.61	34.56	85.54	0.44	7.17	10466.40	14.35	<0.001	60.58	0.61		٠										488567.68	<2.867	3.98
LB024_zr25	40.83	273.40	681.23	4.65	58.85	8659.28	117.44	0.017	444.40	3.07												481938.25	<2.760	8.21
LB024_zr26	7.80	59.40	142.08	0.84	11.34	9674.40	25.65	0.003	88.42	0.98												488437.15	12.03	6.68
LB024_zr27	4.02	33.83	81.13	0.49	7.01	10276.24	14.61	<0.001	53.94	0.56	0.28	185.19	0.007	0.00	0.91 0.	0.15 2.37	7 10.12	12 20.33	22.74	4 491.70	220.17	488672.86	<2.799	4.64
LB024_Z128	3.30	34.30	85.38	0.50	0.00	9200.93	15.03	0.003	7.95	0.02		·										489794 79	<2.7.50	5 5
LB024 zr3	4.27	39.11	91.77	0.70	8.32	10106.15	16.32	0.010	58.34	0.61												488740.16	14.14	8.85
LB024_zr30	6.25	35.33	85.04	0.54	6.55	10481.19	15.05	0.035	53.02	0.88												488505.26	26.33	4.56
LB024_zr31	3.62	28.54	70.39	0.31	5.10	10548.65	12.23	<0.001	48.68	0.52		_										488492.14	4.22	3.79
LB024_zr32	3.88	33.19	76.88	0.49	6.41	10163.85	13.82	0.014	50.94	0.56	0.49	_										488764.89	<2.862	3.73
LB024_zr33	9.47	59.20	136.23	0.89	11.13	9817.59	24.35	0.007	80.24	1.19	.,											488364.74	<2.801	6.28
LB024_zr34	12.38	49.99	107.81	0.62	9.58	11224.18	19.57	0.530	61.58	<del>1.</del> ;	1.32	441.87										487 099 .71	<2.745	4.94
LB024_zr35	22.42	149.54	324.90	1.74	29.66	9259.51	61.89	0.003	159.40	1.99	1.12	294.04	450.0									486660.16	42.727	11.02
LB024_zr36	20.c	36.56	88.91	0.58	66.7	97.33.80	15.82	<0.001	38.86	0.73	0.38	148.90								3 543.10	242.83	489062.29	27.1.75	9.09
	₽.	All elt	*All elements are in ppm.	sare	nn pp	m.																		

Appendix C: Eastern Sunda arc zircon trace element chemistry

F	=	4.33	5.53	6.69	5.59	5.41	3.96	99.7	4.85	4.66	4.11	4.56	16.74	4.20	8.61	5.05	7.32	3.82	4.83	7.07	4.30	4.23	3.77	3.92	8.61	4.96	9.09	6.15	12.47	6.72	8. r	5.28	5.74	11.13	6.49	4.76	5.55	7.15	7.14	9.10	6.76	6.29	9.33	7.36	4.90	9.89	8.31	7.90	
ű	a	21.41	4.71	36.34	4.63	2.98	<2.810	7.70	<2.780	<2.820	<2.795	<2.721	440.08	3.22	<2.727	<2.757	477.62	<2.828	61.48	29.72	589.29	5.14	5.30	5.32	2371.21	20.72	3.95	82.46	<2.844	28.18	109.22	<2.742	948.21	11884.44	<2.850	3.56	<2.772	<2.767	10.55	42.7.24	3.99	5.52	18.47	4.98	<2.634	5.27	<2.694	<2.755	
,,	17	489265.40	186433.93	188132.05	487523.91	188553.46	188379.71	483335.73	186464.61	483914.24	186577.04	487019.50	485722.75	486619.28	187779.46	486807.76	485862.33	486292.02	479224.68	486845.54	485582.32	485847.65	486929.22	487147.75	483162.61	488189.41	486172.46	486916.65	485097.59	486511.56	186930.37	483919.26	485235.07	470777.25	489290.39	485698.31	486795.71	488237.24	186752.45	486177.47	48863.99	186686.66	487453.90	488420.32	188330.64	187993.76	188264.78	188097.74	
5	+		536.11 4	. 7		7	338.45 4	•	•	7	7	7	•	1	4	•	•	498.02 4				•	321.95 4							•	•	926.55 4			•	•		343.02 4	•				7	382.37 4	7		`	417.17 4	
>					972.93																																									-,	•		
.  -	-				49.63			217.65 34						70.33 11													135.05 17					148.84 24		117.10 13				63.91 7						59.15 9		92.75 13		66.74 9	
<u>.</u>		12.77			36.38 4			117.25 21										48.28 8					31.22 4							42.99 7		92.13 14 38.50 6								73.46 14		60.08	•		1.73	1.46 9		39.04 6	
_	_	9.92			41.68																											123.08								142.32 /				50.34	18.13 2	73.74 E	48.01 4	14.28	
_	4				5.31			•••		.,																																					4.47	4.45	
ŕ	4			0.31										0.35				0.31														0.45								0.50		0.33						0.31	
8	E O	1.43	2.00	3.26	2.51	1.65	1.30	8.34	2.16	4.18	3.57	1.66	3.08	1.81	2.18	2.79	2.05	2.26	12.61	2.71	3.52	2.41	1.91	1.19	4.57	1.20	2.35	2.05	8.63	3.67	2.20	6.03	2.22	7.70	09:0	2.11	1.98	1.16	3.05	3.87	1.57	5.03	2.72	2.40	0.89	2.04	1.79	1.91	
à	ī	0.14	0.14	0.04	0.36	0.03	0.03	0.27	0.02	90.0	0.07	0.03	0.07	0.03	0.04	90.0	0.09	0.04	0.34	0.13	0.11	0.02	0.13	0.01	0.54	0.01	0.03	0.07	0.19	0.07	0.06	21.0	0.03	0.97	0.02	0.36	0.03	0.05	0.21	0.11	0.07	0.15	0.05	0.07	0.02	0.04	0.04	0.09	
á	-		0.053															3 0.025							5.427			9 0.030				0.046							00.100						_			0.020	
٥	_	149.13	394.02	26.192	538.66	180.76	317.24	784.71	390.65	564.64	324.44	287.78	399.59	428.75	301.1	456.64	453.14	477.46	1138.89	328.80	416.32	433.96	491.42	482.53	517.8	224.90	469.93	342.53	425.32	311.73	309.07	816.50	480.33	494.21	165.44	839.51	316.62	366.31	379.90	372.69	212.18	368.74	326.30	234.93	227.05	303.09	295.75	383.84	
3	Na	1.24	2.36	17.	2.28	0.56	0.68	4.24	0.68	1.26	1.37	0.56	1.41	0.62	0.81	4.	0.83	0.73	5.70	1.56	1.89	0.81	1.40	0.41	4.56	0.43	0.82	1.00	4.17	1.48	0.97	2.55	0.86	6.51	0.27	1.86	0.64	0.58	1.80	2.10	0.43	2.56	0.87	1.06	0.31	0.94	0.77	1.01	
1	-		3 1.42	•			7 0.73							3 1.29							0 1.02			_				Ψ.	90.1			7.53			_				1.92								3 1.48		
=	4			•	87.56			•••	110.11									115.38			113.00		3 71.16									202.32															103.53		
<u>-</u>	4		0.016				٧			٧		•		•												v						0.00								0.008				2 0.012	0.006		v	0.160	
· =			46.58																_													7 78.80			7 9.91					59.50				3 28.82	15.57	39		7 28.91	
3	Ē	9933.41	10261.84	9225.93	9805.60	9874.25	9675.89	9288.05	11098.59	11481.28	10970.14	10837.45	10023.82	10941.68	10137.13	10225.16	10417.70	10993.53	11683.69	10964.07	10893.82	11298.66	11082.43	10702.22	10906.64	10671.68	9843.16	10900.31	9593.80	11187.51	10566.91	10461.37	10227.36	10507.95	9838.47	10967.20	10823.80	9642.29	10127.15	9633.05	9291.16	9794.65	9268.73	9374.18	10505.50	8875.81	9273.85	9379.17	pm.
č	p 5	6.45	29.83	20.30	15.08	10.36	10.63	58.00	14.38	32.80	21.49	13.38	27.20	14.01	17.53	19.32	16.23	16.53	78.92	16.86	23.03	18.12	13.44	10.88	19.68	6.51	21.93	12.93	48.81	20.97	14.67	39.75	16.53	30.62	4.79	14.09	14.30	9.16	20.10	29.44	9.23	30.16	17.27	14.71	6.54	15.21	12.29	12.74	e in p
ة	4		2.18	•		5 0.87															3 1.06											1.65		3.44	5 0.29					1.92			7 1.02	1.04	0 0.43			4 0.78	nts aı
ů	4		247.04	•		•					•																		•			408.30					•			319.51	_	•		159.49				163.44	*All elements are in ppm.
à	4	,	121.71	86.66	72.14	50.15		0		_			_	72.41					m		99.46						_		N			186./1		_						147.15		_	98.28	71.39	35.78				*AII 6
3	4	7 3.83		10.46				.,		4	_			4 9.57			9 14.34		.,			_					•					3 18.04	_				_			1 19.26		_	•	3 8.42	7 4.86	_		9.22	
Claimlen	Analysis	LB024_zr37	LB024_zr38	LB024_214	LB024_zr6	LB024_zr7	LB024_zr8	LB024_zr9	LB028_zr1	LB028_zr10	LB028_zr11	LB028_zr12	LB028_zr13	LB028_zr14	LB028_zr17	LB028_zr18	LB028_zr19	LB028_zr2	LB028_zr20	LB028_zr21	LB028_zr22	LB028_zr23	LB028_zr24	LB028_zr25	LB028_zr26	LB028_zr27	LB028_zr28	LB028_zr29	LB028_zr3	LB028_zr30	LB028_zr31	LB028_zr33	LB028_zr5	LB028_zr6	LB028_zr7	LB028_zr8	LB028_zr9	LB029_zr1	LB029_zr10	LB029_zr11	LB029_zr13	LB029_zr14	LB029_zr15	LB029_zr16	LB029_zr17	LB029_zr18	LB029_zr19	LB029_zr2	

Appendix C: Eastern Sunda arc zircon trace element chemistry

	Ι	7.91	8.73	23.22	6.50	4 0.0	6.31	4.12	6.41	60.9	8.45	7.72	6.49	7.85	6.33	7.42	6.14	8.09	08.9	13.00	10.92	8.78	79.7	8.68	9.83	6.36	8.09	3.92	7.11	5.23	6.46	5.38	5.94	6.91	7.37	10.7	5.61	96.36	72.99	9.17	3.97	7.45	6.27	3.14	10.34	7.72	3.68	2.98	4.53	
	Fe	<6.116	<6.168	238.38	5.51	3.84	3.19	26.33	<2.668	<2.692	69'.66	<2.627	<2.670	<2.690	<3.732	<2.659	54.07	<2.624	<2.627	99.09	<2.595	<2.789	96.13	<2.763	29.62	<2.736	<2.724	<2.573	<2.621	3.57	<2.581	<2.611	<2.571	<3.008	6.14	<2.602	<2.578	<2.619	9.11	<2.567	2.76	4.75	<3.065	<2.967	13.52	<2.965	<2.671	3.33	<2.654	
	JΖ	488144.34	487998.18	488247.94	488824.19	485433.51	488399.53	487513.78	488433.47	488880.01	488975.76	487317.11	485171.31	487999.07	487134.11	488457.82	488560.32	487670.68	488666.35	487818.38	486849.48	487798.12	488290.01	487961.27	487920.52	488755.56	487778.17	488647.82	488284.29	486971.16	488433.62	489642.16	487434.67	487355.70	489100.55	487854 63	488775.35	488766.66	483519.27	486046.63	488855.58	488474.83	488266.75	487991.03	485525.38	487718.26	489236.05	488992.62	488299.97	
	Yb	465.85	499.54	378.73	306.17	610.63	350.84	351.03	320.48	284.23	268.43	592.20	737.73	466.47	484.04	396.51	318.00	520.83	271.20	482.55	707.97	534.29	397.37	499.73	496.08	311.86	511.88	238.72	434.90	423.51	383.63	194.72	472.63	691.06	262.58	417.76	374.11	323.66	1007.66	897.10	240.51	373.99	448.99	346.74	919.80	590.39	217.48	250.34	408.50	
	Y	1236.86	1207.87	871.46	724.66	1582.36	841.01	817.98	770.86	682.96	585.58	1591.43	2039.40	1173.62	1183.41	894.67	753.66	1258.49	631.62	1272.02	1826.53	1320.34	940.45	1144.72	1170.64	755.14	1221.77	550.75	1014.28	1106.45	996.78	467.34	1203.72	1853.34	632.80	1127.30	1073.77	742.29	3295.19	2555.42	286.07	911.60	1194.09	835.25	2713.30	1533.22	494.78	544.99	988.97	
	Π	87.97	94.49	63.11	44.56	103.10	57.07	58.44	72.13	41.99	39.90	100.21	188.26	74.28	118.39	63.47	47.95	93.34	57.16	77.77	126.85	86.90	68.78	84.13	85.15	44.78	88.96	26.29	50.62	53.67	62.81	34.37	62.51	95.04	26.37	49.83	44.43	33.63	214.05	142.47	25.29	42.32	59.29	44.84	135.19	89.59	21.59	28.70	24.60	
	Tm	48.90	51.04	35.32	28.88	61.03	32.96	32.56	30.30	26.51	24.57	58.04	73.58	45.24	45.37	37.30	30.06	49.66	25.17	47.21	68.78	51.14	37.40	46.54	47.19	29.56	48.11	21.99	39.89	40.62	37.29	18.45	45.22	19.79	24.68	40.15	37.51	29.68	105.15	89.51	22.69	35.45	44.69	32.31	92.21	27.07	20.74	22.76	38.30	
	Th	79.91	69.55	42.20	27.34	63.18	37.68	39.77	50.61	29.80	26.31	90.96	256.44	64.38	101.25	38.09	33.01	87.79	34.40	76.78	114.02	66.69	47.03	54.80	59.03	31.26	60.42	13.95	30.04	46.58	44.69	21.84	54.14	55.73	15.47	45.72	36.08	19.46	350.44	154.88	13.98	34.70	49.54	26.10	152.86	78.32	10.68	12.35	32.57	
	qL	6.42	5.36	3.84	3.71	8.41	4.03	3.84	3.94	3.61	2.78	9.01	11.47	6.33	5.54	4.15	3.84	5.61	3.13	7.52	8.83	6.21	4.29	2.07	5.20	4.01	5.68	2.68	4.63	6.44	5.22	2.34	6.50	10.92	3.43	7.64	6.83	3.83	23.66	14.92	3.27	4.49	98.9	4.69	15.74	8.37	2.67	2.75	4.90	
	Та				0.26			0.23			0.20					0.36																			0.17					0.47			_	_	0.48	_	_		0.32	
	Sm				1.52																																		•											
	o Pr				14 0.04																																												54 0.03	
	Pb		.37 0.032								.61 0.332			_			.57 0.034		.75 0.013									.49 0.005								00.00				.29 0.055	_	_	_	_	_	_	0.004	2.0	0.054	
	Ь		•	82 271.35	0.66 257	95 406.42 88 622.87		,						21 270.92					62 237.75																	05 272 09				4,		0.73 320.00	1.15 227		39 347.65		22	32	3.65	
	N dN				0.82 0.4														0.73 0.							0.89		0.68 0.									0.74 1.			1.97 2.			0.85 1.				0.52 0.		.27 0.	
	Lu N				72.81 0.																	•				_							•																_	
	La				<0.001						0.161 (	2	8	9	7	_	_		4	m	0	က	_	4	_	4	8	9	_	4	_	7	ε.	4 (	0.002	o m	7	9	9				<del>-</del> -	2	0	_	<b>.</b>	<0.001	_	
_ I I	Но				21.02 <0																		27.53 0			22.47 0									18.74 0														27.28 <0	
	Hf				9338.75 2				9665.35 2	9513.44	9516.85 1	9266.37 4	10350.17 6																						9308.00 1			9455.48 2	9651.67 9							-			9994.22 2	
	PS	.11 88	22 88			001 007.73		_	9.92 96	10.44 95	8.13 95		•				10.87 93						12.29 94												10.02 93			11.01 94	79.64 96			_	٥				•	_	12.99	ın ppm.
	Eu G	1.03 17	0.82 15	0.66 10	0.70 10				0.62	0.75 10	0.61 8	1.67 27					0.75 10		_				0.87 12	0.79 13	0.79 13	0.84 10				_						1.98 24		0.90	6.75 79		08.0		_						0.87	are in
	Er			144.45	119.19				126.91	111.73	96.28	257.99	329.44	193.83						206.30	298.00									177.66			191.61		103.08		166.12						190.32						154.96	nents
	Dy		81.47	90'.29	49.02	02.32	56.40		52.67	49.68	39.84	120.52			79.55																71.72	34.08				91.30		50.23	273.45		43.43						34.20		96.30	*All elements are
	Ce	11.59	13.13	8.54	6.30	10.87	7.82	6.75	8.77	6.33	6.27	13.21	27.39	10.13	13.48	8.68	6.17	12.06	7.04	10.93	16.84	12.03	9.38	10.50	1.34	6.28	11.90	4.96	7.82	11.52	9.02	90'9	10.18	17.63	4.91	25.50	7.58	5.88	34.14	25.97	4.32	6.72	12.14	6.45	28.93	16.59	3.98	4.42	10.87	T.A.
	Analysis ID	LB029_zr20	LB029_zr21	LB029_zr22	LB029_zr23	LB029_ZI24	LB029 zr26	LB029_zr27	LB029_zr28	LB029_zr29	LB029_zr3	LB029_zr30	LB029_zr31	LB029_zr32	LB029_zr33	LB029_zr34	LB029_zr35	LB029_zr36	LB029_zr37	LB029_zr38	LB029_zr39	LB029_zr4	LB029_zr40	LB029_zr5	LB029_zr6	LB029_zr7	LB029_zr8	LB036_zr1	LB036_zr10	LB036_zr11	LB036_zr12	LB036_zr13	LB036_zr14	LB036_zr15	LB036_zr17	LB036_Z110	LB036_zr2	LB036_zr20	LB036_zr21	LB036_zr3	LB036_zr4	LB036_zr5	LB036_zr6	LB036_zr7	LB036_zr8	LB036_zr9	LB002_zr1	LB002_zr10	LB002_zr11	

Appendix C: Eastern Sunda arc zircon trace element chemistry

	Fe Ti				<2.623 7.87			_	_		3.10 4.55		<2.785 4.69			<2.610 4.04	<2.622 4.04		15.82 4.33		3.01 4.57			<2.691 6.13		_	<2.702 4.16			1197.12 18.28		<2.636 7.60				<2.777 6.93	<2.568 4.05		43.66 4.65	<2.649 5.17	352.68 6.86	4.44 5.26
	Zr	489259.33	488390.02	488192.06	487939.73	488396.76	483785.98	487799.78	489536.32	485262.99	488288.30	488845.40	487933.77	489169.77	489512.54	489384.89	488558.64	488664.21	489043.19	488850.50	488651.86	488583.22	486985.17	489247.09	488076.20	488865.85	489512.32	488615.89	487898.79	486522.77	489223.66	488663.28	489411.89	488927.10	488780.20	487648.55	489697.39	488468.29	477129.81	488971.45	487615.60	488454.58
	Υb	266.27	450.23	607.81	581.68	471.33	201.48	648.30	206.59	900.38	469.21	311.35	419.22	330.19	232.07	143.06	353.18	363.67	298.96	289.04	362.01	493.40	761.81	356.94	576.33	259.34	149.43	440.38	514.56	182.42	255.12	443.64	116.11	368.37	431.40	630.57	175.91	237.48	373.62	252.38	333.67	475.64
	٨	597.86	1185.91	1577.76	1465.03	1186.19	420.38	1690.24	483.42	2821.72	1183.07	731.31	987.52	759.58	512.72	307.27	862.93	1018.13	737.18	785.70	880.46	1191.37	2030.48	734.19	1443.47	628.34	315.12	1002 59	1263.51	422.55	528.69	1081.84	265.56	1017.73	1087.04	1649.96	409.26	566.80	948.28	551.29	879.91	1202.55
	n	32.45	66.81	83.06	81.47	51.45	23.15	89.21	23.27	143.27	62.31	36.03	59.26	39.28	27.43	25.52	61.72	42.67	44.08	33.84	49.48	61.29	108.61	34.74	82.55	52.01	25.75	78 87	79.42	25.70	26.19	64.57	20.90	46.20	42.07	95.30	18.17	67.67	45.44	40.24	44.13	67.19
	Tm	24.69	44.20	58.89	26.00	46.68	18.11	62.76	19.13	93.40	45.25	29.27	39.34	30.94	21.27	12.96	33.33	35.37	28.61	28.17	33.99	46.59	75.46	32.91	54.87	24.54	13.71	30.20	48.22	16.94	23.32	41.78	10.79	36.47	42.07	61.72	16.46	22.66	35.87	23.08	32.39	46.15
	Ŧ	15.08	55.40	63.15	59.84	30.50	11.24	70.10	11.25	182.22	41.65	19.01	46.86	23.66	13.42	10.26	49.69	35.57	32.82	35.07	33.63	33.08	98.34	15.54	58.19	37.13	13.31	42.03	48.98	15.95	11.54	40.87	11.75	34.16	33.10	86.93	9.10	51.32	25.55	21.09	27.68	49.36
	Tb	2.99	6.72	8.37	7.38	6.34	2.08	9.54	2.68	21.12	6.30	3.81	5.15	4.09	2.62	1.48	4.72	7.36	4.01	5.30	4.71	5.82	11.80	3.33	7.63	3.40	1.62	5.04	6.23	2.35	2.45	5.23	1.38	6.25	6.72	9.45	2.08	3.05	5.27	2.64	4.71	6.25
	Та	3 0.21														8 0.15										0.20		2 0.12					8 0.14				8 0.12		4 0.31	4 0.22	0 0.28	9 0.34
	Sm				3 2.56					_					2 1.15				2 1.43					3 1.31		1.26		20.5		4 0.77						5 3.03			9 4.44	2 0.84	3 1.90	
	Pr	0 0.02																										20.02				8 0.03				4 0.05						90.04
	Pb	0.010	0.025	0.018	0.017	0.008	0.018	0.0	0.003	0.062	0.019	0.007	0.016	0.0	0.007	0.004	0.020	0.065	0.012	0.024	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.000	0.10	0.111	0.00	0.0	0.18	0.016	0.0	0.024	0.00	0.016	0.042	0.007	0.084	0.026
	Ь		_	_		_	_		_	_		_		_	_	_		_		_		_		_	_	_							_	_	_			_				
	PN	36.0	97.0	1.13	0.91	98.0	7.09	1.17	0.40	98.9	0.75	9.0	0.61	0.56	0.46	0.33			0.42				1.02	0.49	1.03	0.40		0.66	.2.5					1.19	1.43	1.31	0.26	0.33	13.45	0.31	1.12	0.86
	ηN				0 1.83				_							0 0.48												0.50					3 0.56				3 0.45	_	4 1.05	3 0.77	0 0.92	5 1.40
	Γn		_		_	_		_				74.17					81.74					115.60			•	61.12		94.27				_		85.93		_	41.73	56.82			76.90	111.65
	La	<0.001	0.006																										0.180													0.00
1	Н													21.31	14.39	8.76										•		28.55				.,	7.88				11.50		27.22	15.19	25.27	33.92
	Hf	9659.12	9481.25	8920.21	9473.63	9527.08	8893.78	9164.00	9569.45	10146.43	9655.89	9912.30	10511.09	9396.63	9496.23	10143.35	9976.28	9568.27	9607.85	9822.69	9833.93	9222.78	9483.92	9321.99	9337.47	10096.14	9945.25	9536.53	9946.25	10248.36	9843.14	9365.57	10204.05	9221.10	9230.31	9433.39	9532.65	10729.62	9276.56	10125.51	9417.96	9385.61
	p9	7.75	17.95	22.46	20.04	16.90	7.06	25.70	7.21	67.72	17.03	10.51	15.13	10.98	7.48	3.94	13.39	24.45	10.96	16.21	13.03	15.03	31.56	8.46	19.13	9.16	3.80	0.03	16.54	6.79	6.73	13.09	3.76	19.29	19.58	27.56	6.43	8.42	15.86	7.01	13.38	15.87
	Eu	0.55	1.18	1.46	1.17	1.10	69.0	1.65	0.53	5.41	1.05	0.76	0.89	0.75	0.55	0.31	0.82	1.82	0.72	1.30	0.79			99.0	1.33	0.64	0.30	60.0	1.01	0.45	0.48	1.01	0.28	1.38	1.55	1.63	0.41	0.56	1.27	0.52	0.99	0.94
	Er	98.15	186.50	245.50	236.93	191.89	70.50	268.80	76.82	412.86	188.13	119.61	160.01	125.05	83.86	51.79	138.09	155.13	118.07	121.20	139.67	191.47	321.86	127.48	229.18	100.75	52.33	160 93	199.75	68.40	88.81	173.98	43.00	156.71	174.39	263.53	66.54	91.61	149.68	89.26	135.01	190.15
	Dy	38.25	90.98	109.69	96.66	82.27	27.18	122.78	34.01	229.52	82.22	49.98	68.82	51.57	34.42	19.71	59.89	81.62	51.93	63.01	60.32	79.95	151.40	46.15	98.57	43.82	21.22	30.03	84.09	29.53	34.21	71.73	18.06	76.86	80.10	120.42	27.73	39.55	66.55	34.26	63.90	84.15
	င်	5.83	14.14	16.10	15.35	11.02	14.95	17.80	3.99	34.55	12.20	6.62	10.67	6.80	5.27	4.23	10.88	8.47	8.32	6.84	69.6	10.39	22.46	6.62	14.51	6.97	4.4	10.73	14.15	5.23	5.05	11.52	4.11	8.69	8.22	20.54	3.87	9.49	31.78	29.9	99.8	13.24
	Analysis ID	LB002_zr12	LB002_zr13	LB002_zr14	LB002_zr15	LB002_zr16	LB002_zr17	LB002_zr18	LB002_zr19	LB002_zr2	LB002_zr20	LB002_zr21	LB002_zr22	LB002_zr23	LB002_zr24	LB002_zr25	LB002_zr26	LB002_zr27	LB002_zr28	LB002_zr29	LB002_zr3	LB002_zr30	LB002_zr31	LB002_zr32	LB002_zr33	LB002_zr34	LB002_zr35	LB002_2530	LB002_zr38	_ LB002_zr39	LB002_zr4	LB002_zr40	LB002_zr41	LB002_zr42	LB002_zr43	LB002_zr44	LB002_zr45	LB002_zr46	LB002_zr5	LB002_zr6	LB002_zr7	LB002_zr8

Appendix C: Eastern Sunda arc apatite trace element chemistry (EMPA)

Analysis ID	Si	A	La	Ce	Nd	Fe	Mn	Mg	Ca	Sr	Na	¥	Ь	S	As	Ö	ь	O stoi.	TOTAL
LB014_ap001	0.16	<0.01	0.18	0.33	0.15	0.10	0.17	0.02	37.72	<0.04	0.15	<0.03	17.69	0.10	<0.02	2.22	1.74	37.27	98.00
LB014_ap_002	0.13	<0.01	0.08	0.28	0.16	0.11	0.13	0.03	37.87	<0.04	0.09	<0.03	17.52	0.11	<0.02	2.17	1.54	37.13	97.37
LB014_ap003	0.11	<0.01	0.14	0.30	0.17	0.08	0.17	0.02	37.96	0.04	0.12	<0.03	17.58	0.09	<0.02	2.09	1.50	37.25	97.62
LB014_ap_004	0.15	<0.01	0.10	0.26	60.0	0.09	0.21	0.02	38.09	<0.03	0.08	<0.03	17.57	0.13	0.03	2.27	1.64	37.28	98.00
LB014_ap005	0.10	<0.01	<0.08	0.20	0.09	0.07	0.17	0.02	38.15	<0.03	0.09	<0.03	17.73	0.09	<0.02	2.14	1.72	37.35	97.93
LB014_ap006	0.13	<0.01	0.12	0.32	0.15	0.08	0.19	<0.01	37.95	0.04	0.11	<0.03	17.58	0.10	<0.02	2.18	1.60	37.21	97.75
LB014_ap007	0.13	<0.01	0.17	0.29	0.12	0.09	0.15	0.02	37.99	<0.04	0.11	<0.03	17.65	0.07	<0.02	2.13	1.37	37.38	79.76
LB014_ap_008	0.08	<0.01	<0.08	0.18	0.11	0.11	0.19	0.04	38.35	<0.04	0.04	<0.03	17.76	0.07	<0.02	1.93	1.76	37.47	98.09
LB014_ap009	0.14	<0.01	<0.08	0.32	0.14	0.14	0.17	0.02	38.03	90.0	90.0	<0.03	17.64	0.10	<0.02	2.13	1.60	37.35	97.89
LB014_ap010	0.15	<0.01	0.19	0.27	0.15	0.11	0.20	0.03	37.83	0.05	0.09	40.0 <del>4</del>	17.69	0.09	<0.02	2.30	1.60	37.31	98.06
LB014_ap_011	0.13	<0.01	0.12	0.30	0.16	0.12	0.13	0.02	38.13	<0.04	0.13	<0.03	17.66	0.13	<0.02	2.03	1.56	37.51	98.14
LB014_ap012	0.14	<0.01	<0.08	0.27	0.14	0.09	0.13	0.02	37.88	<0.04	0.13	×0.04	17.59	0.12	<0.02	2.16	1.67	37.19	97.53
LB014_ap013	0.13	<0.01	0.11	0:30	0.12	0.12	0.17	0.02	38.04	90.0	0.09	<0.03	17.59	0.11	<0.02	2.12	1.52	37.32	97.81
LB014_ap014	0.19	<0.01	0.21	0.46	0.19	0.10	0.16	0.03	37.96	0.04	0.07	<0.03	17.48	0.07	0.02	2.19	1.79	37.08	98.04
LB014_ap_015	0.14	<0.01	0.13	0.35	0.18	0.11	0.15	0.01	38.16	<0.04	0.10	<0.03	17.60	0.12	<0.02	2.15	1.69	37.34	98.23
LB014_ap_016	0.13	<0.01	0.14	0.36	0.16	0.10	0.18	0.02	38.07	<0.04	0.09	40.0v	17.65	0.10	<0.02	2.19	1.63	37.35	98.16
LB014_ap_017	0.15	<0.01	0.13	0.22	0.13	0.09	0.15	0.02	37.94	90.0	0.12	<0.03	17.51	0.12	<0.02	2.15	1.70	37.13	97.61
LB014_ap_018	0.16	0.01	0.18	0.33	0.17	0.10	0.19	0.02	37.87	<0.04	0.11	<0.03	17.55	0.12	<0.02	2.17	1.68	37.20	97.86
LB014_ap_019	0.16	<0.01	0.09	0.15	60.0	0.12	0.17	0.02	38.07	<0.04	0.09	<0.03	17.69	0.13	0.02	2.12	1.65	37.43	98.01
LB014_ap_020	0.13	<0.01	0.12	0.27	0.17	0.10	0.19	0.02	37.99	<0.03	0.09	<0.03	17.60	0.07	<0.02	2.19	1.56	37.22	97.71
LB014_ap_021	0.17	<0.01	0.16	0.23	0.11	0.11	0.18	0.02	38.06	<0.04	0.08	×0.04	17.61	0.10	<0.02	2.28	1.59	37.30	98.00
LB014_ap022	0.13	<0.01	0.12	0.22	>0.06	0.10	0.18	0.03	38.17	0.05	0.09	<0.03	17.61	0.13	<0.02	2.15	1.52	37.39	97.87
LB014_ap023	0.15	0.01	0.11	0.30	0.10	0.11	0.15	0.02	37.81	<0.04	0.09	40.0 <del>4</del>	17.63	0.09	<0.02	2.19	1.64	37.21	97.62
LB014_ap_024	0.13	<0.01	0.10	0.29	<0.0>	0.13	0.17	0.02	38.10	0.04	0.13	<0.03	17.60	0.11	<0.02	2.09	1.48	37.37	97.76
LB014_ap025	0.10	<0.01	0.13	0.27	60.0	0.11	0.17	0.03	38.07	<0.04	0.13	<0.03	17.65	0.12	<0.02	2.23	1.49	37.41	98.00
LB014_ap_026	0.15	<0.01	0.10	0.28	0.11	0.13	0.19	0.02	38.09	<0.04	0.09	<0.03	17.60	0.11	<0.02	2.22	1.63	37.30	98.01
LB014_ap027	0.11	<0.01	0.19	0.25	0.11	0.10	0.21	0.04	38.01	<0.04	0.10	<0.03	17.67	0.10	<0.02	2.21	1.67	37.30	98.07
LB014_ap028	0.15	<0.01	0.17	0.29	0.17	0.15	0.20	0.02	37.98	0.04	0.10	<0.03	17.65	0.09	<0.02	2.16	1.40	37.43	97.99
LB014_ap030	0.13	<0.01	0.12	0.26	<0.0>	0.11	0.20	0.03	38.24	40.04	90.0	<0.03	17.65	0.08	<0.02	2.15	1.74	37.31	98.08
LB014_ap031	0.14	<0.01	0.17	0.33	<0.0>	0.09	0.15	0.03	37.92	40.04	0.11	<0.03	17.54	0.12	<0.02	2.55	1.56	37.13	97.86
LB014_ap032	0.11	<0.01	0.10	0.19	0.10	0.11	0.12	0.05	38.09	0.06	0.11	<0.03	17.59	0.13	<0.02	2.02	1.46	37.38	97.59
LB014_ap033	0.17	\$0.04 5	0.15	0.38	0.12	0.10	0.21	0.02	37.72	0.04	0.16	×0.03	17.51	0.13	<0.02	2.62	1.57	37.08	97.99
LB014_ap034	0.15	0.00	0.1	0.23	00.00	4 4	5 5	0.02	50.00	0.0	0.0	\$0.03	17.01	7.0	<0.02 0.02	Z.13	0/:	37.31	90.0
LB014_ap_035	0.0	0.00		0.20	5 C	0.0	5 5	0.0	37.07	90.07	0.0	t 8	50.71	. 6	20:02	7 . 6	20. 1	37.42	90.
I B014 ap 037	0 14	×0.07	0.15	0.32	0.17	0.10	0.17	20.0	38.06	\$0.04 \$1	0 11	<0.03	17.63	0 11	0.00	211	161	37.38	80
LB014 ap 038	0.13	<0.01	0.17	0.24	0.08	0.11	0.20	0.02	38.16	\$0.0 <b>&gt;</b>	0.09	<0.03	17.58	0.14	<0.02	2.07	1.61	37.37	97.96
LB014_ap_039	0.13	<0.01	0.10	0.17	0.08	0.11	0.19	0.02	38.06	<0.04	0.11	<0.03	17.59	0.12	<0.02	2.05	1.81	37.22	97.75
LB014_ap_040	0.14	<0.01	0.11	0.32	0.16	0.11	0.18	0.02	37.91	0.04	0.10	<0.03	17.55	0.08	<0.02	2.11	1.57	37.19	97.61
LB025_ap001	0.08	<0.01	<0.08	<0.09	<0.0>	0.16	0.15	0.18	38.62	<0.04	90.0	<0.03	17.81	0.07	<0.02	0.28	3.19	37.45	98.05
LB025_ap002	0.04	<0.01	<0.08	0.00	60.0	0.33	0.36	0.25	38.13	90.0	0.08	<0.03	17.86	90.0	<0.02	0.70	2.57	37.60	98.20
LB025_ap003	0.07	<0.01	<0.08	0.12	0.10	0.18	0.10	0.12	38.69	0.04	0.05	×0.04	17.92	90.0	<0.02	0.35	3.09	37.61	98.48
LB025_ap004	0.08	<0.01	<0.0>	0.10	<0.0>	0.12	0.07	0.10	38.82	<0.04	0.07	<0.03	17.96	0.09	<0.02	0.35	3.07	37.72	98.54
LB025_ap_005	0.09	<0.01	<0.08	<0.08	0.07	0.22	0.15	0.21	38.51	90.0	0.04	<0.03	18.00	0.10	<0.02	0.37	2.93	37.86	98.61
LB025_ap006	0.19	0.00	<0.08	0.15	90.0	0.21	60.0	0.18	38.04	<0.04	0.10	<0.03	17.69	0.09	<0.02	1.64	1.61	37.69	97.82
LB025_ap007	0.08	<0.01	0.15	0.14	0.11	0.15	0.10	0.11	38.41	<0.04	0.04	<0.03	17.87	0.03	<0.02	29.0	2.71	37.49	98.05
LB025_ap008	0.08	<0.01	<0.08	<0.09	<0.0>	0.20	0.12	0.12	38.03	<0.04	0.08	<0.04	17.72	0.08	<0.02	2.10	1.99	37.19	97.72
LB025_ap009	0.01	<0.01			0.07	0.11	0.04	0.04	38.45	90.0	0.05		17.88	0.02	<0.02	0.47	2.91	37.25	97.36
LB025_ap010	0.07	<0.01			>0.06	0.16	0.13	0.12	38.71	<0.04	0.07		17.90	0.07	<0.02	0.55	2.98	37.58	98.33
LB025_ap011	0.07	<0.01			>0.06	0.14	60.0	0.07	38.58	<0.04	0.09		17.88	0.06	<0.02	0.71	2.98	37.40	98.06
*	*all elements in wt. %	ents ir	1 wt. %	(EMPA)	A).														

Appendix C: Eastern Sunda arc apatite trace element chemistry (EMPA)

Marie   Mari								İ		Ī										
	Analysis ID	Si		La	Ce	PN	Fe	Mn	Mg	Ca	Sr	Na	¥	۵	S			ш		TOTAL
	LB025_ap012	90:0	<0.01			<0.0>	0.21	0.13	0.22	38.38	0.04	0.08		17.86	0.09	<0.02	0.23	3.15	37.49	97.95
	LB025_ap013	0.07	<0.01			0.14	0.22	0.32	0.14	38.18	<0.04	90.0		17.81	90:00	<0.02	0.74	2.91	37.31	96.76
	LB025_ap014	0.11	<0.01			>0.06	0.16	0.10	0.14	38.42	<b>&lt;</b> 0.04	0.12		17.82	0.17	<0.02	0.41	2.94	37.61	98.01
	LB027_ap001	0.11	<0.01			<0.06	90.0	90.0	0.03	38.96	0.05	<0.02		17.93	0.01	<0.02	0.29	3.52	37.39	98.42
		1.19	0.08			<0.0>	0.68	0.07	0.59	37.15	40.0 <del>4</del>	0.03		16.92	0.01	<0.02	0.45	3.07	37.34	97.58
(4)         (4) <td>LB027_ap003</td> <td>0.13</td> <td>0.02</td> <td></td> <td></td> <td>&lt;0.06</td> <td>0.27</td> <td>0.12</td> <td>0.07</td> <td>38.39</td> <td>&lt;0.03</td> <td>0.04</td> <td></td> <td>17.71</td> <td>0.02</td> <td>&lt;0.02</td> <td>1.48</td> <td>2.45</td> <td>37.27</td> <td>98.03</td>	LB027_ap003	0.13	0.02			<0.06	0.27	0.12	0.07	38.39	<0.03	0.04		17.71	0.02	<0.02	1.48	2.45	37.27	98.03
0.00         0.10         0.00 <th< td=""><td>LB027_ap004</td><td>0.04</td><td>&lt;0.01</td><td></td><td></td><td>&lt;0.06</td><td>0.05</td><td>0.08</td><td>&lt;0.01</td><td>38.67</td><td>40.0<del>4</del></td><td>0.02</td><td></td><td>17.82</td><td>0.02</td><td>&lt;0.02</td><td>0.52</td><td>2.73</td><td>37.32</td><td>97.27</td></th<>	LB027_ap004	0.04	<0.01			<0.06	0.05	0.08	<0.01	38.67	40.0 <del>4</del>	0.02		17.82	0.02	<0.02	0.52	2.73	37.32	97.27
12.         0.55	LB027_ap005	0.04	<0.01			<0.06	0.14	0.05	0.05	38.82	0.05	0.05		18.01	0.03	<0.02	1.03	3.06	37.45	98.79
000         011 <td>LB027_ap006</td> <td>1.20</td> <td>90.0</td> <td></td> <td></td> <td>&lt;0.0&gt;</td> <td>0.49</td> <td>0.14</td> <td>0.53</td> <td>37.07</td> <td><b>&lt;</b>0.04</td> <td>0.02</td> <td></td> <td>17.02</td> <td>0.01</td> <td>&lt;0.02</td> <td>0.36</td> <td>2.57</td> <td>37.59</td> <td>90'.06</td>	LB027_ap006	1.20	90.0			<0.0>	0.49	0.14	0.53	37.07	<b>&lt;</b> 0.04	0.02		17.02	0.01	<0.02	0.36	2.57	37.59	90'.06
000         010 <td></td> <td>0.11</td> <td>&lt;0.01</td> <td></td> <td></td> <td>&lt;0.06</td> <td>90.0</td> <td>60.0</td> <td>0.04</td> <td>38.42</td> <td>&lt;0.03</td> <td>0.13</td> <td></td> <td>17.90</td> <td>0.16</td> <td>&lt;0.02</td> <td>4.</td> <td>2.37</td> <td>37.72</td> <td>98.04</td>		0.11	<0.01			<0.06	90.0	60.0	0.04	38.42	<0.03	0.13		17.90	0.16	<0.02	4.	2.37	37.72	98.04
0.00         0.01         0.02 <th< td=""><td></td><td>0.14</td><td>&lt;0.01</td><td></td><td></td><td>0.09</td><td>0.12</td><td>0.09</td><td>0.03</td><td>38.33</td><td>&lt;0.04</td><td>0.12</td><td></td><td>17.70</td><td>0.14</td><td>&lt;0.02</td><td>0.89</td><td>2.52</td><td>37.42</td><td>97.59</td></th<>		0.14	<0.01			0.09	0.12	0.09	0.03	38.33	<0.04	0.12		17.70	0.14	<0.02	0.89	2.52	37.42	97.59
0.10         0.10 <th< td=""><td>LB042_ap003</td><td>0.10</td><td>&lt;0.01</td><td></td><td></td><td>0.14</td><td>0.17</td><td>0.07</td><td>0.07</td><td>38.41</td><td>0.04</td><td>0.10</td><td></td><td>17.87</td><td>0.08</td><td>&lt;0.02</td><td>1.14</td><td>2.65</td><td>37.45</td><td>98.30</td></th<>	LB042_ap003	0.10	<0.01			0.14	0.17	0.07	0.07	38.41	0.04	0.10		17.87	0.08	<0.02	1.14	2.65	37.45	98.30
0.11         4.01 <th< td=""><td>LB042_ap004</td><td>0.09</td><td>&lt;0.01</td><td></td><td></td><td>0.12</td><td>90.0</td><td>0.07</td><td>0.04</td><td>38.52</td><td>0.05</td><td>0.09</td><td></td><td>17.90</td><td>0.14</td><td>&lt;0.02</td><td>0.81</td><td>2.61</td><td>37.64</td><td>98.12</td></th<>	LB042_ap004	0.09	<0.01			0.12	90.0	0.07	0.04	38.52	0.05	0.09		17.90	0.14	<0.02	0.81	2.61	37.64	98.12
0.0         40.1         0.1 <td>LB042_ap005</td> <td>0.11</td> <td>&lt;0.01</td> <td></td> <td></td> <td>&lt;0.0&gt;</td> <td>0.15</td> <td>0.09</td> <td>0.08</td> <td>38.23</td> <td>&lt;0.03</td> <td>0.08</td> <td></td> <td>17.74</td> <td>0.13</td> <td>&lt;0.02</td> <td>1.85</td> <td>1.93</td> <td>37.44</td> <td>97.83</td>	LB042_ap005	0.11	<0.01			<0.0>	0.15	0.09	0.08	38.23	<0.03	0.08		17.74	0.13	<0.02	1.85	1.93	37.44	97.83
0.00         4.01         0.10 <th< td=""><td>LB042_ap006</td><td>0.10</td><td>&lt;0.01</td><td></td><td></td><td>0.11</td><td>0.13</td><td>0.08</td><td>0.05</td><td>38.33</td><td>&lt;0.04</td><td>0.11</td><td></td><td>17.72</td><td>0.10</td><td>&lt;0.02</td><td>1.10</td><td>2.59</td><td>37.27</td><td>97.71</td></th<>	LB042_ap006	0.10	<0.01			0.11	0.13	0.08	0.05	38.33	<0.04	0.11		17.72	0.10	<0.02	1.10	2.59	37.27	97.71
0.0         4.0.1         0.10 <th< td=""><td>LB042_ap007</td><td>0.09</td><td>&lt;0.01</td><td></td><td></td><td>0.10</td><td>0.10</td><td>0.08</td><td>0.04</td><td>38.72</td><td><b>&lt;</b>0.04</td><td>0.10</td><td></td><td>17.89</td><td>0.11</td><td>&lt;0.02</td><td>0.75</td><td>2.79</td><td>37.62</td><td>98.39</td></th<>	LB042_ap007	0.09	<0.01			0.10	0.10	0.08	0.04	38.72	<b>&lt;</b> 0.04	0.10		17.89	0.11	<0.02	0.75	2.79	37.62	98.39
0.10         0.10 <th< td=""><td>LB042_ap008</td><td>0.09</td><td>&lt;0.01</td><td></td><td></td><td>0.10</td><td>0.22</td><td>0.12</td><td>0.14</td><td>37.98</td><td>&lt;0.04</td><td>0.13</td><td></td><td>17.82</td><td>0.08</td><td>&lt;0.02</td><td>06.0</td><td>2.78</td><td>37.29</td><td>97.66</td></th<>	LB042_ap008	0.09	<0.01			0.10	0.22	0.12	0.14	37.98	<0.04	0.13		17.82	0.08	<0.02	06.0	2.78	37.29	97.66
0.11         0.01         0.10 <th< td=""><td>LB042_ap009</td><td>0.10</td><td>&lt;0.01</td><td></td><td></td><td>0.11</td><td>0.10</td><td>0.04</td><td>0.0</td><td>38.57</td><td><b>4</b>0.0<b>4</b></td><td>0.11</td><td></td><td>17.84</td><td>0.13</td><td>&lt;0.02</td><td>0.93</td><td>2.67</td><td>37.55</td><td>98.19</td></th<>	LB042_ap009	0.10	<0.01			0.11	0.10	0.04	0.0	38.57	<b>4</b> 0.0 <b>4</b>	0.11		17.84	0.13	<0.02	0.93	2.67	37.55	98.19
0.11         0.01         0.01         0.04         88.4         0.04 <th< td=""><td>LB042_ap010</td><td>0.11</td><td>&lt;0.01</td><td></td><td></td><td>0.10</td><td>0.10</td><td>0.10</td><td>0.05</td><td>38.56</td><td>&lt;0.03</td><td>0.11</td><td></td><td>17.79</td><td>0.11</td><td>&lt;0.02</td><td>1.25</td><td>2.45</td><td>37.49</td><td>98.22</td></th<>	LB042_ap010	0.11	<0.01			0.10	0.10	0.10	0.05	38.56	<0.03	0.11		17.79	0.11	<0.02	1.25	2.45	37.49	98.22
0.04         -0.04	LB042_ap011	0.11	<0.01			<0.0>	0.10	0.10	0.04	38.42	<b>&lt;</b> 0.04	0.07		17.85	0.11	0.02	1.10	2.56	37.47	97.93
0.14         0.04         0.05         0.04         0.05         0.04         0.05         0.04         0.05         0.04         0.05         0.04         0.04         0.01         0.05         0.04         0.04         0.01         0.04         0.04         0.01         0.04 <th< td=""><td>LB042_ap012</td><td>0.08</td><td>&lt;0.01</td><td></td><td></td><td>0.18</td><td>0.09</td><td>0.13</td><td>0.04</td><td>38.37</td><td>&lt;0.04</td><td>0.10</td><td></td><td>17.88</td><td>0.11</td><td>&lt;0.02</td><td>1.24</td><td>2.48</td><td>37.50</td><td>98.19</td></th<>	LB042_ap012	0.08	<0.01			0.18	0.09	0.13	0.04	38.37	<0.04	0.10		17.88	0.11	<0.02	1.24	2.48	37.50	98.19
014         0101         011         0105         3843         0104         0107         1772         0107         -0102         0105         0104         0104         0107         1772         0107         -0102         0105         0104 <th< td=""><td>LB042_ap013</td><td>0.12</td><td>&lt;0.01</td><td></td><td></td><td>0.14</td><td>60.0</td><td>0.05</td><td>0.03</td><td>38.57</td><td>&lt;0.03</td><td>0.11</td><td></td><td>17.86</td><td>0.10</td><td>&lt;0.02</td><td>0.76</td><td>2.33</td><td>37.74</td><td>97.90</td></th<>	LB042_ap013	0.12	<0.01			0.14	60.0	0.05	0.03	38.57	<0.03	0.11		17.86	0.10	<0.02	0.76	2.33	37.74	97.90
0.08         -0.01         -0.02         0.04         -0.02         -0.02         -0.02         -0.02         -0.02         -0.02         -0.02         -0.03         -0.03         -0.03         -0.04         -0.03         -0.04         -0.03         -0.04         -0.04         -0.04         -0.04         -0.02         -0.04         -	LB042_ap014	0.14	<0.01			0.19	0.13	0.10	0.05	38.43	<b>&lt;</b> 0.04	0.07		17.92	0.07	<0.02	0.59	3.04	37.49	98.22
0.08         4.01         0.04         0.01         0.04         0.01         0.04         0.01         0.04         0.01         0.04         0.01         0.04         0.01         0.04         0.01         0.04         0.01         0.04         0.01         0.04         0.01         0.02         0.04         0.02         0.04         0.02         0.04         0.02         0.04         0.02         0.04         0.02         0.04         0.02         0.04         0.02         0.04         0.02         0.04         0.02         0.04         0.02         0.04         0.02         0.04         0.02         0.04         0.02         0.04         0.02         0.04         0.02         0.04 <th< td=""><td>LB042_ap015</td><td>0.08</td><td>&lt;0.01</td><td></td><td></td><td>&lt;0.0&gt;</td><td>60.0</td><td>0.10</td><td>90:0</td><td>38.47</td><td>×0.04</td><td>0.13</td><td></td><td>17.71</td><td>0.10</td><td>&lt;0.02</td><td>0.75</td><td>2.60</td><td>37.44</td><td>97.61</td></th<>	LB042_ap015	0.08	<0.01			<0.0>	60.0	0.10	90:0	38.47	×0.04	0.13		17.71	0.10	<0.02	0.75	2.60	37.44	97.61
0.12         0.01         0.02 <th< td=""><td>LB042_ap016</td><td>0.08</td><td>&lt;0.01</td><td></td><td></td><td>0.08</td><td>60:0</td><td>0.11</td><td>0.05</td><td>38.55</td><td>0.04</td><td>0.10</td><td></td><td>17.85</td><td>0.09</td><td>&lt;0.02</td><td>0.89</td><td>2.61</td><td>37.51</td><td>98.04</td></th<>	LB042_ap016	0.08	<0.01			0.08	60:0	0.11	0.05	38.55	0.04	0.10		17.85	0.09	<0.02	0.89	2.61	37.51	98.04
0.10         4.00         0.10         0.00 <th< td=""><td>LB042_ap017</td><td>0.12</td><td>&lt;0.01</td><td></td><td></td><td>0.08</td><td>0.11</td><td>0.12</td><td>0.02</td><td>38.28</td><td>\$0.0<del>^</del></td><td>0.12</td><td></td><td>17.75</td><td>0.09</td><td>&lt;0.02</td><td>1.48</td><td>2.22</td><td>37.36</td><td>97.76</td></th<>	LB042_ap017	0.12	<0.01			0.08	0.11	0.12	0.02	38.28	\$0.0 <del>^</del>	0.12		17.75	0.09	<0.02	1.48	2.22	37.36	97.76
0.08         0.01         0.02         0.03         0.04         0.01         0.04         0.02         0.02         0.02         0.02         0.02         0.02         0.02         0.02         0.02         0.03         0.04         0.04         0.01         0.04         0.04         0.01         0.04         0.04         0.01         0.04         0.04         0.02         0.04         0.04         0.03         0.04         0.04         0.03         0.04         0.04         0.03         0.04         0.04         0.03         0.04         0.04         0.03         0.04         0.04         0.03         0.04         0.04         0.03         0.04         0.04 <th< td=""><td>LB042_ap018</td><td>0.10</td><td>&lt;0.01</td><td></td><td></td><td>&lt;0.07</td><td>0.10</td><td>0.07</td><td>90:0</td><td>38.42</td><td>0.05</td><td>0.10</td><td></td><td>17.92</td><td>0.10</td><td>&lt;0.02</td><td>0.70</td><td>2.80</td><td>37.56</td><td>97.98</td></th<>	LB042_ap018	0.10	<0.01			<0.07	0.10	0.07	90:0	38.42	0.05	0.10		17.92	0.10	<0.02	0.70	2.80	37.56	97.98
0.10         0.10 <th< td=""><td>LB042_ap019</td><td>0.08</td><td>&lt;0.01</td><td></td><td></td><td>&lt;0.07</td><td>60.0</td><td>0.09</td><td>0.03</td><td>38.29</td><td>0.0</td><td>0.12</td><td></td><td>17.89</td><td>0:00</td><td>&lt;0.02</td><td>1.67</td><td>2.18</td><td>37.45</td><td>98.03</td></th<>	LB042_ap019	0.08	<0.01			<0.07	60.0	0.09	0.03	38.29	0.0	0.12		17.89	0:00	<0.02	1.67	2.18	37.45	98.03
0.00         C-10.01         O-10.1         O-10.1 </td <td>LB042_ap020</td> <td>0.12</td> <td>-0.0<sub>2</sub></td> <td></td> <td></td> <td>0.13</td> <td>60:0</td> <td>0.05</td> <td>0.06</td> <td>38.42</td> <td>40.04</td> <td>0.13</td> <td></td> <td>17.79</td> <td>0.11</td> <td>&lt;0.02</td> <td>0.7</td> <td>2.53</td> <td>37.53</td> <td>97.67</td>	LB042_ap020	0.12	-0.0 <sub>2</sub>			0.13	60:0	0.05	0.06	38.42	40.04	0.13		17.79	0.11	<0.02	0.7	2.53	37.53	97.67
0.10         0.10 <th< td=""><td>LB042_ap0z1</td><td>0.08</td><td>\$0.0J</td><td></td><td></td><td>V0.07</td><td>- 6</td><td>0.13</td><td>G 10.0</td><td>38.20</td><td>\$ 70.0v</td><td>0.07</td><td></td><td>17.77</td><td>0.00</td><td>×0.02</td><td>7.52</td><td>54. 0</td><td>37.35</td><td>97.75</td></th<>	LB042_ap0z1	0.08	\$0.0J			V0.07	- 6	0.13	G 10.0	38.20	\$ 70.0v	0.07		17.77	0.00	×0.02	7.52	54. 0	37.35	97.75
0.10         0.01         0.02         0.03         0.04         0.03         0.04         0.02         0.02         0.03         0.04         0.02         0.03         0.03         0.04         0.03         0.04         0.02         0.03         0.04         0.03         0.04         0.03         0.04         0.03         0.04         0.02         0.03         0.04         0.03         0.04         0.03         0.04         0.03         0.04         0.02         0.03         0.03         0.04         0.02         0.02         0.03         0.03 <th< td=""><td>LB042_ap022</td><td>0.08</td><td>0.00</td><td></td><td></td><td>0.10</td><td>0.10</td><td>0.0</td><td>G 90</td><td>38.04</td><td>\$ 0.0 5 0.0</td><td>0.10</td><td></td><td>; ; 2 3 3 3 3</td><td>5 5</td><td>×0.02</td><td>0.80</td><td>2.03</td><td>37.55</td><td>98. 4</td></th<>	LB042_ap022	0.08	0.00			0.10	0.10	0.0	G 90	38.04	\$ 0.0 5 0.0	0.10		; ; 2 3 3 3 3	5 5	×0.02	0.80	2.03	37.55	98. 4
0.04 <td>LB042_ap023</td> <td>5 5</td> <td>0.07</td> <td></td> <td></td> <td>0:0</td> <td>0.0</td> <td><u> </u></td> <td>0.00</td> <td>38.38</td> <td>\$ 00 00 00 00 00 00 00 00 00 00 00 00 00</td> <td>0.0</td> <td></td> <td>17.92</td> <td>- o</td> <td>×0.02 ×0.02</td> <td>0.13</td> <td>2.02</td> <td>37.39</td> <td>90.23</td>	LB042_ap023	5 5	0.07			0:0	0.0	<u> </u>	0.00	38.38	\$ 00 00 00 00 00 00 00 00 00 00 00 00 00	0.0		17.92	- o	×0.02 ×0.02	0.13	2.02	37.39	90.23
0.04         -0.01         -0.02         -0.04         0.03         -0.04         0.03         -0.04         0.03         -0.04         0.03         -0.04         0.03         -0.02         -0.04         0.03         -0.02         -0.04         0.03         -0.05         -0.02         -0.02         -0.04         0.04         -0.04 <td>LB042 ap 025</td> <td>0.10</td> <td>&lt;0.01</td> <td></td> <td></td> <td>0.15</td> <td>0.14</td> <td>0.07</td> <td>0.05</td> <td>38.59</td> <td>\$0:0v</td> <td>0.08</td> <td></td> <td>17.90</td> <td>0.10</td> <td>&lt;0.02</td> <td>0.95</td> <td>2.76</td> <td>37.55</td> <td>98.4</td>	LB042 ap 025	0.10	<0.01			0.15	0.14	0.07	0.05	38.59	\$0:0v	0.08		17.90	0.10	<0.02	0.95	2.76	37.55	98.4
0.04         <.0.01   <	ELF-03_ap001	0.02	<0.01			<0.06	0.07	0.12	<0.01	38.78	0.0	0.03		17.91	<0.01	0.02	96.0	2.43	37.48	97.85
0.04         < 0.01         < 0.04         < 0.04         < 0.04         < 0.04         < 0.04         < 0.04         < 0.04         < 0.04         < 0.04         < 0.04         < 0.04         < 0.04         < 0.04         < 0.04         < 0.04         < 0.04         < 0.04         < 0.04         < 0.04         < 0.04         < 0.04         < 0.04         < 0.04         < 0.04         < 0.04         < 0.04         < 0.04         < 0.04         < 0.04         < 0.04         < 0.04         < 0.04         < 0.04         < 0.04         < 0.04         < 0.04         < 0.04         < 0.04         < 0.04         < 0.04         < 0.04         < 0.04         < 0.04         < 0.04         < 0.04         < 0.04         < 0.04         < 0.04         < 0.04         < 0.04         < 0.04         < 0.04         < 0.04         < 0.04         < 0.04         < 0.04         < 0.04         < 0.04         < 0.04         < 0.04         < 0.04         < 0.04         < 0.04         < 0.04         < 0.04         < 0.04         < 0.04         < 0.04         < 0.04         < 0.04         < 0.04         < 0.04         < 0.04         < 0.04         < 0.04         < 0.04         < 0.04         < 0.04         < 0.04         < 0.04         < 0.04         < 0.04         < 0.04 <td>ELF-03_ap002</td> <td>0.04</td> <td>&lt;0.01</td> <td></td> <td></td> <td>&lt;0.06</td> <td>90.0</td> <td>0.09</td> <td>&lt;0.01</td> <td>39.10</td> <td>0.05</td> <td>&lt;0.02</td> <td></td> <td>18.07</td> <td>0.01</td> <td>0.04</td> <td>08.0</td> <td>2.71</td> <td>37.75</td> <td>98.71</td>	ELF-03_ap002	0.04	<0.01			<0.06	90.0	0.09	<0.01	39.10	0.05	<0.02		18.07	0.01	0.04	08.0	2.71	37.75	98.71
0.03 <ul></ul>	ELF-03_ap003	0.04	<0.01			<0.06	0.04	0.09	<0.01	38.80	<0.03	<0.02		18.01	0.02	0.03	0.85	2.39	37.67	97.93
0.04 <td>ELF-03_ap004</td> <td>0.03</td> <td>&lt;0.01</td> <td></td> <td></td> <td>0.09</td> <td>60.0</td> <td>0.11</td> <td>&lt;0.01</td> <td>38.80</td> <td><b>4</b>0.04</td> <td>0.04</td> <td></td> <td>17.98</td> <td>0.02</td> <td>&lt;0.02</td> <td>1.00</td> <td>2.23</td> <td>37.70</td> <td>98.08</td>	ELF-03_ap004	0.03	<0.01			0.09	60.0	0.11	<0.01	38.80	<b>4</b> 0.04	0.04		17.98	0.02	<0.02	1.00	2.23	37.70	98.08
0.04         <0.01         <0.07         <0.09         <0.01         <0.02         <0.04         <0.02         <0.04         <0.02         <0.04         <0.02         <0.04         <0.02         <0.04         <0.02         <0.04         <0.02         <0.04         <0.02         <0.04         <0.02         <0.04         <0.04         <0.04         <0.04         <0.04         <0.04         <0.04         <0.04         <0.04         <0.04         <0.04         <0.04         <0.04         <0.04         <0.04         <0.04         <0.04         <0.04         <0.04         <0.04         <0.04         <0.04         <0.04         <0.04         <0.04         <0.04         <0.04         <0.02         <0.02         <0.04         <0.04         <0.04         <0.04         <0.04         <0.02         <0.02         <0.04         <0.04         <0.04         <0.04         <0.04         <0.04         <0.04         <0.04         <0.04         <0.04         <0.04         <0.04         <0.04         <0.04         <0.04         <0.04         <0.04         <0.04         <0.04         <0.04         <0.04         <0.04         <0.04         <0.04         <0.04         <0.04         <0.04         <0.04         <0.04         <0.04	ELF-03_ap005	0.04	<0.01			<0.0>	0.05	0.10	<0.01	38.81	40.0 <del>4</del>	0.02		18.06	0.01	<0.02	0.94	2.28	37.76	98.07
0.03	ELF-03_ap006	0.04	<0.01			<0.0>	0.07	0.09	<0.01	38.85	40.0 <del>4</del>	<0.02		17.90	<0.01	<0.02	66.0	2.14	37.61	97.69
0.03	ELF-03_ap007	0.03	<0.01			>0.06	<0.02	0.10	<0.01	39.26	40.0 <del>4</del>	<0.02		18.04	0.01	0.02	0.26	2.63	37.91	98.26
0.03 <0.01 < 0.06 0.06 0.08 0.09 0.01 38.96 <0.04 0.03 18.02 0.02 <0.02 0.02 245 37.74   0.04 0.01 38.90 0.08 0.04 0.03 17.92 0.02 0.02 2.02 245 37.74   0.04 0.01 0.04 0.01 38.90 0.06 0.04 0.02 17.95 0.01 0.02 0.09 2.45 37.8   0.05 0.01 0.04 0.01 38.91 0.06 0.02 0.03 0.04 0.02 17.95 0.01 0.02 0.09 0.48 3.11 37.84   0.05 0.01 0.04 0.01 0.01 39.17 0.04 0.02 17.96 0.01 0.03 0.03 0.04 0.01 39.17 0.04 0.02 17.96 0.01 0.03 0.04 0.01 39.18 0.04 0.02 17.96 0.01 0.03 0.03 0.04 0.01 39.19 0.04 0.02 17.96 0.01 0.03 0.04 0.01 39.19 0.04 0.02 17.96 0.01 17.96 0.01 0.03 0.03 0.04 0.01 39.19 0.04 0.02 17.96 0.01	ELF-03_ap008	0.03	<0.01			<0.0>	0.14	0.22	0.02	38.61	0.04	9.0		17.95	0.05	<0.02	1.19	2.14	37.62	98.02
0.04 ~ CU(1)	ELF-03_ap009	0.03	40.01 5			\$0.00 80.00	0.08	0.08	0.01	38.96	<0.04 0.04	0.03		18.02	0.02	<0.02	0.91	2.41	37.74	98.29
0.03	ELF-03_ap010	0.0	<0.01			×0.06	0.04	0.12	<0.01	38.90	0.08	9.0		17.92	0.02	<0.02	0.98	2.45	37.56	98.15
0.04 *CUOII	ELF-03_ap011	0.03	0.04 5			90.00	0.06	0.09	0.01	38.93	40.04 20.04	0.03		18.05	0.01	<0.02	1.07	2.18	37.82	98.26
0.05 <0.01 < 0.07	ELF-03_ap012	0.0	<0.01			90:0×	0.05	0.08	<0.01	39.09	0.06	<0.02		17.95	<0.01	0.02	0.97	2.13	37.77	98.17
0.03 <-0.01	ELF-03_ap013	0.02	<0.01			<0.0>	0.03	0.05	<0.01	39.25	<0.04 40.04	<0.02		18.01	0.02	0.09	0.48	3.11	37.64	98.74
0.05 (0.01 (0.02 (0.03 (0.04 (0.01 (0.04 (0.01 (0.04 (0.02 (0.02 (0.03 (0.04 (	ELF-03_ap014	0.03	\$0.04 50.04			\$0.00 9	0.04	0.0	\$0.01 50.04	39.17	\$0.0 20.0 20.0	<0.02		18.12	0:0	<0.02	0.78	2.73	37.81	98.78
U.D	ELF-03_ap015	0.07	-0.0 <sub>2</sub>			<0.0>	0.03	40.0	<0.01	39.19	40.04	<0.02		17.36	-0.0×	0.03	08.0	2.85	37.68	98.14
	ELF-03_ap016	0.02	<0.01			<0.07 	0.11	0.08	<0.01	38.95	<0.03	0.05		17.98	0.02	<0.02	4.	2.20	37.76	98.34

Appendix C: Eastern Sunda arc apatite trace element chemistry (EMPA)

ELF-03 ap_ 017         SI         AI         La           ELF-03 ap_ 017         0.03         <0.01            ELF-03 ap_ 020         0.07         <0.01            ELF-03 ap_ 020         0.07         <0.01            ELF-03 ap_ 022         0.07         <0.01            ELF-03 ap_ 022         0.05         <0.01            ELF-03 ap_ 022         0.05         <0.01            ELF-03 ap_ 022         0.03         <0.01            ELF-03 ap_ 025         0.04         <0.01            ELF-03 ap_ 026         0.03         <0.01            ELF-03 ap_ 027         0.06         <0.01            ELF-03 ap_ 028         0.04         <0.01            ELF-03 ap_ 028         0.03         <0.01            ELF-03 ap_ 028         0.03         <0.01            ELF-03 ap_ 039         0.03         <0.01            ELF-03 ap_ 038         0.03         <0.01            ELF-03 ap_ 038         0.06         <0.01            ELF-03 ap_ 038         0.06         <0.01      <	0.07 0.09 0.09 0.09 0.09 0.09 0.09 0.09	0.03 0.04 0.07 0.03	0.03 0.07 0.14	ర	39.19	Sr <0.03	Na K	18.04	\$ 40.01 40.01	As <0.02 0.05	0.32 0.40	3.12		TOTAL 98.25
0.00	60.07 60.08 60.08 60.09 60.00	0.03 0.07 0.04 0.03	0.03				0.03	18.04	<0.01	<0.02 0.05	0.32	3.12	37.74	98.25
000 000 000 000 000 000 000 000 000 00	60.06 60.07 60.08 60.09 60.00	0.04	0.07				000	18.01	<0.01	0.05	0.40	3.12	37.62	
9	60.06 60.07 60.08 60.09 60.00	0.07	0.14				0.02				801	000		98.56
000 000 000 000 000 000 000 000 000 00	6,0,0 6,0 6	0.04			39.01	0.07	0.03	18.05	0.01	0.03	3	2.06	37.93	98.51
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	60.06 60.09 60.00	0.03	0.09			.04	<0.02	17.92	0.01	0.03	0.65	2.60	37.79	98.31
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.07 0.08 0.09 0.09 0.09 0.09 0.09 0.09 0.09		90.0			<0.04	<0.02	17.91	0.03	<0.02	09:0	2.27	37.73	97.62
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.10	0.11	2	38.78		0.03	18.07	0.01	<0.02	1.13	2.25	37.79	98.39
0.00	6.00 6.00 6.00 6.00 6.00 6.00 6.00 6.00	0.06	0.09				0.06	18.03	0.02	<0.02	0.99	2.32	37.75	98.27
200 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	6.0.0 6.0.0	0.07	0.11			<0.04 0.04	0.06	17.80	0.02	<0.02	£ 5	2.29	37.38	97.61
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	80.0 80.0 80.0 80.0 80.0 80.0 80.0 80.0	0.07	0.09				<0.02 0.03	17.00	0.02	0.03	1.02	2 10	37.66	96.37
0.03	60.06 60.06 60.07	0.04	<0.03		•		<0.02	18.03	0.02	0.07	23.10	5 4 5	37.77	98.98
0.03	60.05 60.05 70.05 60.07 60.05	0.07	0.05	<0.01	٠		0.03	18.06	0.02	0.02	0.54	2.32	37.95	98.18
0.04 0.02 0.03 0.04 0.05 0.05 0.05	60.05 70.05 70.05 60.05	0.10	0.12				0.03	17.96	0.01	<0.02	1.12	2.07	37.80	98.25
0.08 0.02 0.03 0.04 0.05 0.03	70.0> 70.0> 60.0>	0.04	0.04			<0.03	<0.02	18.00	0.08	0.02	0.37	3.08	37.68	98.42
0.02 0.03 0.05 0.05 0.03	70.0> 60.0	90.0	0.08				0.02	18.09	0.01	0.04	0.86	2.39	37.84	98.39
0.03 0.05 0.05	90.00	90.0	0.07				0.02	18.05	0.01	0.04	0.57	2.99	37.65	98.65
0.04 0.05 0.03	30 07	0.03	0.05				<0.02	18.03	0.01		0.59	2.66	37.74	98.24
0.05 0.03 0.05	20.00	<0.02					0.03	18.02	<0.01		0.30	2.70	37.76	97.98
0.05	<0.06	0.05					0.03	17.87	×0.01		0.62	2.80	37.42	97.87
30.50	70.02	70:0					20.02	17.05	0.0		0.30	2.47 2.48	37.75	90.32
0.07	<0.0>	0.03					0.03	17.80	0.04		1.07	2.01	37.61	97.64
0.07	0.08	<0.02	0.03	<0.01	38.69	<0.04	0.03	17.90	90.0	0.03	0.68	1.96	37.79	97.32
	0.07	<0.02					0.07	17.80	0.04		0.37	2.91	37.26	97.20
	0.11	<0.02					0.04	17.92	0.05		0.89	1.57	37.98	97.50
0.08	<0.0>	<0.02	<0.03				0.03	17.71	0.04		0.75	2.26	37.50	97.26
90.0	<0.0>	<0.02	0.10				60.0	17.83	0.03		1.35	69.0	37.96	96.61
0.07	0.13	0.03	0.04				0.02	17.82	0.04		0.88	1.98	37.66	97.46
SPF-05_ap009 0.08 <0.01	<0.0/ 6.44	<0.02	<0.03				0.03	17.91	80.0	<0.02	44.0	2.28	37.90	97.83
	0.11	<0.02 0.18	50.03				0.00	17.81	0.08	0.03	0.49	2.30	37.30	97.5
60:0	0.10	<0.02	0.06			0.04	0.09	17.79	0.09	<0.02	0.37	2.80	37.39	97.32
0.04	90.0>	<0.02	0.10				0.05	17.96	0.05	<0.02	0.40	2.78	37.60	97.77
0.05	0.07	0.03	0.07				0.03	17.88	0.12	<0.02	0.16	3.05	37.73	98.46
	0.08	<0.02	0.05				0.04	17.91	0.07	<0.02	0.61	2.46	37.74	98.04
0.05	0.07	<0.02	0.07				0.03	17.84	0.05	<0.02	0.30	3.41	37.33	98.29
90:00	0.10	0.12	0.14				0.08	17.67	0.05	<0.02	3.51	06.0	37.17	97.96
90:0	0.14	<0.02	0.05		•	<0.04	0.04	17.87	90.0	0.03	0.97	2.08	37.65	97.63
0.10	0.02	<0.02	<0.03				0.04	17.83	0.05	<0.02	0.61	2.43	37.49	97.13
0.05	0.09	0.08	0.09				0.06	17.86	0.09	<0.02	0.69	2.91	37.36	97.86
SPE-05 ap 021 0.09 <0.01	0.05	40.0	0.05	10.0		40.04 40.04	<0.02	17.95	0.08	\$0:02 0.03	LL:0	5. 19 08.0	37.73	98.12
0.05	0.07	<0.02	0.11				0.03	18.03	0.02	0.02	0.35	2.74	37.80	98.29
0.05	0.02	<0.02	0.04			0.04	0.03	17.84	0.05	0.02	1.02	1.92	37.66	97.55
	0.00	<0.02	0.08				0.04	17.74	0.04	90.0	1.01	1.70	37.69	97.38
SPF-05_ap026 0.07 <0.01	<0.0>	<0.02	90.0				0.04	17.97	0.07	0.02	0.22	3.31	37.54	98.25
90:00	>0.06	<0.02	0.05				0.07	17.84	0.08	<0.02	0.38	2.56	37.70	97.77
90.0	0.07	0.02	0.04	<0.01	38.91	<0.04	0.05	17.81	0.08	<0.02	0.59	2.13	37.75	97.52
0.08	0.13	<0.02	<0.03	<0.01	38.89	<0.03	0.08	17.94	0.10	<0.02	0.41	2.41	37.89	97.92
SPF-05_ap030 0.05 <0.01	0.08	<0.02	60.0	<0.01	39.11	<0.03	0.04	18.00	0.09	<0.02	0.30	2.85	37.84	98.47

Appendix C: Eastern Sunda arc apatite trace element chemistry (EMPA)

SPF-05_ap031	7	A	La	2	e L	Σ	5	ca Ca	ัก	S	~	L	n	As	5	L	O stol.	
SPF-05_ap_031	0				l													1
	0.67	0.27		<0.06					٠		0.04	17.37	0.12	<0.02	0.22	2.86	37.79	97.76
GBF-04_ap_001	0.04	<0.01		>0.09				0.01 38.90	•		0.04	17.98	0.03	<0.02	0.97	2.43	37.66	98.19
GBF-04_ap002	0.06	<0.01		0.08					•		0.04	17.89	0.07	0.03	0.53	3.24	37.36	98.23
GBF-04_ap_003	0.0	<0.01		<0.06			0		39.06 <0.04		0.03	17.99	0.02	0.04	92.0	2.64	37.69	98.42
GBF-04_ap_004	0.03	<0.01		<0.06	6 0.05					.04	<0.02	18.09	<0.01	<0.02	69.0	2.68	37.80	98.63
GBF-04_ap_005	0.04	<0.01		>0.09				_	•		0.03	18.09	0.05	<0.02	06.0	2.46	37.83	98.50
GBF-04_ap_006	0.04	<0.01		>0.09			Ŷ				0.05	17.97	0.03	0.02	1.14	2.17	37.72	98.15
GBF-04_ap007	0.03	<0.01		>0.09		0.10 0.10					0.03	18.05	0.01	<0.02	0.56	2.85	37.76	98.68
GBF-04_ap_009	0.03	0.01		<0.07				2	39.03 <0.04		0.03	18.10	0.01	<0.02	0.47	3.07	37.69	98.62
GBF-04_ap_010	0.03	<0.01		>0.06					Ŷ		<0.02	18.08	0.02	<0.02	0.68	2.75	37.74	98.4(
GBF-04_ap_011	0.05	<0.01		<0.07			•			4	0.02	18.04	0.05	0.02	0.97	2.31	37.76	98.25
GBF-04_ap_012	0.05	<0.01		<0.07					39.09 <0.04		.02	18.05	<0.01	90.0	0.62	2.72	37.74	98.40
GBF-04_ap_013	0.04	<0.01		0.06					V		0.02	18.13	0.01	<0.02	0.65	2.46	38.02	98.76
GBF-04_ap_014	0.07	<0.01		90.0			Ŷ			.04	0.02	18.04	<0.01	<0.02	0.59	2.89	37.58	.2.86
GBF-04_ap_015	90.0	<0.01		<0.0'		11 0.10			V		0.02	18.15	<0.01	<0.02	0.74	2.73	37.81	98.59
GBF-04_ap_016	0.05	<0.01		<0.06				_	·		.02	18.01	<0.01	0.03	0.75	2.65	37.70	98.39
GBF-04_ap_017	0.04	<0.01		<0.07							0.04	18.02	<0.01	0.02	0.64	2.76	37.63	98.19
GBF-04_ap_018	0.07	<0.01		<0.06							0.03	18.07	0.01	<0.02	0.81	2.53	37.76	98.24
GBF-04_ap_019	0.03	<0.01		>0.09			•		•		0.02	18.13	<0.01	<0.02	0.71	2.77	37.74	98.50
GBF-04_ap_020	0.0	<0.01		<0.06			·		·		0.03	17.96	0.01	0.02	92.0	2.11	37.75	97.5.
GBF-04_ap_021	0.02	<0.01		<0.06							0.07	17.95	0.03	<0.02	0.65	2.61	37.60	97.97
GBF-04_ap_022	0.05	<0.01		90.0					38.91 <0.04		.02	18.03	<0.01	<0.02	0.72	2.61	37.66	98.18
GBF-04_ap023	0.04	<0.01		<0.06							0.03	18.00	0.02	<0.02	0.68	2.61	37.66	98.11
GBF-04_ap_024	0.04	<0.01		<0.07			ô.				0.04	18.05	0.01	<0.02	0.63	2.65	37.76	98.35
GBF-04_ap025	0.04	<0.01		<0.0>					38.90 <0.04		0.04	18.08	0.01	0.03	0.68	2.58	37.76	98.23
LB031_ap001	0.11	<0.01		>0.09							0.03	17.86	<0.01	<0.02	1.36	2.16	37.43	97.6
LB031_ap002	0.09	<0.01		>0.09							0.04	17.88	<0.01	<0.02	1.38	1.49	37.80	97.5
LB031_ap003	0.12	0.01		<0.07							0.03	17.97	<0.01		1.69	2.00	37.64	98.33
LB031_ap004	0.10	<0.01		<0.0>					38.31 <0.04		0.03	17.88	0.02	<0.02	1.59	1.28	37.90	97.7.
LB031_ap005	0.12	<0.01		90.0>		0.52 0.09					0.04	17.91	<0.01		1.61	1.92	37.65	98.2
LB031_ap006	0.10	<0.01		<0.07							0.02	17.98	0.01		1.31	1.55	37.94	97.8.
LB031_ap007	0.15	<0.01		90.0>		0.49 0.06					0.02	17.94	<0.01	<0.02	1.64	1.92	37.71	98.3
LB031_ap008	0.13	<0.01		0.07					38.46 0.06		0.02	17.85	<0.01	0.02	0.92	2.36	37.61	98.02
LB031_ap009	0.12	40.01 10.02		<0.07							0.04	18.00	×0.01	<0.02	. i	2.00	37.71	4.00
LB031_ap_010	41.0	40.01 10.02		\$0.08 6.08							0.02	17.84	×0.01	<0.02	7.72	1.84	37.56	40.88 0.89
LB031_ap011	41.0	\$0.01 50.04		<0.06		0.08					0.02	17.93	-0.07 -0.09		797.	2.33	37.48	98.58
LB031_ap012	5 5	0.00		0.0		0.45					0.02	17.09	20.02		1 53	0 6	37.90	97.00
LB034 ap 004	- 6	5 5		0.00							0.00	26.71	2.00		5 6	5 6	27.00	
LB034_ap001	0.10	10.07		0.10				0.00			0.10	17.72	0.0	20:02	2.45	. t	37.35	07.8
LB034 ap 003	0.10	<0.01		0.14							0.14	17.71	0.09	<0.02	1.99	5 18	37.29	97.76
LB034 ap 004	0.09	<0.01		0.11							0.15	17.68	0.12	<0.02	2.27	1.48	37.40	97.85
LB034 ap 005	0.11	<0.01		0.15							0.14	17.67	0.11	<0.02	2.40	1.24	37.35	97.36
LB034_ap_006	0.10	<0.01		0.11						74	0.14	17.74	0.13	0.02	2.48	1.40	37.35	97.65
LB034_ap007	0.05	<0.01		<0.07							0.18	17.72	0.15	<0.02	2.16	1.60	37.45	97.87
LB034_ap008	0.11	<0.01		0.10					•		0.16	17.67	0.14	<0.02	2.28	1.56	37.42	97.98
LB034_ap009	0.16	<0.01		0.19							0.12	17.59	0.13	<0.02	2.12	1.69	37.31	₹7.76
LB034_ap010	0.10	<0.01		0.11					0.0 0.0		0.14	17.80	0.09	<0.02	2.31	1.54	37.46	97.98
LB034_ap011	0.15	0.03		0.12					37.84 0.		0.18	17.73	0.13	<0.02	2.07	1.74	37.42	97.86
I B03/1 ap 0/12	0	200		0.16	0.15	0.00		0.03		0.05	0.13	17 77	000	<0.0>	240	1 50	27.24	97 48

Appendix C: Eastern Sunda arc apatite trace element chemistry (EMPA)

Maintain							}			-											
0.00         0.01         0.10         0.10         0.10         0.02         0.02         0.03 <th< th=""><th>Analysis ID</th><th>Si</th><th>₹</th><th>La</th><th>ŏ</th><th></th><th></th><th></th><th></th><th></th><th>Ça</th><th>Sr</th><th>Na</th><th>¥</th><th>Ь</th><th>S</th><th>As</th><th>ō</th><th>F</th><th>O stoi.</th><th>TOTAL</th></th<>	Analysis ID	Si	₹	La	ŏ						Ça	Sr	Na	¥	Ь	S	As	ō	F	O stoi.	TOTAL
0.10         0.11         0.12         0.12         0.12         0.12         0.12         0.13         0.13         0.13         0.13         0.14         0.13         0.14         0.13         0.14         0.13         0.14         0.13         0.14         0.13         0.14         0.13         0.14         0.13         0.13         0.13         0.14         0.13         0.14         0.13         0.14         0.13         0.14         0.13         0.14         0.13         0.14         0.13         0.14         0.13         0.14         0.13         0.14         0.13         0.14         0.13         0.14         0.13         0.14         0.13         0.14         0.13         0.14         0.13         0.14         0.13         0.14 <th< td=""><td>LB034_ap_013</td><td>0.09</td><td>&lt;0.01</td><td></td><td></td><td>0.</td><td></td><td></td><td>0.18</td><td>0.05</td><td>37.71</td><td>&lt;0.04</td><td>0.19</td><td></td><td>17.54</td><td>0.12</td><td>&lt;0.02</td><td>2.38</td><td>1.22</td><td>37.15</td><td>96.89</td></th<>	LB034_ap_013	0.09	<0.01			0.			0.18	0.05	37.71	<0.04	0.19		17.54	0.12	<0.02	2.38	1.22	37.15	96.89
0.01         0.01         0.10 <th< td=""><td>LB034_ap014</td><td>0.10</td><td>&lt;0.01</td><td></td><td></td><td>0.</td><td></td><td></td><td>0.19</td><td>0.02</td><td>37.89</td><td>0.07</td><td>0.17</td><td></td><td>17.65</td><td>0.14</td><td>&lt;0.02</td><td>2.16</td><td>1.49</td><td>37.34</td><td>97.54</td></th<>	LB034_ap014	0.10	<0.01			0.			0.19	0.02	37.89	0.07	0.17		17.65	0.14	<0.02	2.16	1.49	37.34	97.54
0.01         0.02         0.03         0.03         0.04         0.07         0.04         0.02 <th< td=""><td>LB034_ap015</td><td>0.11</td><td>&lt;0.01</td><td></td><td></td><td>0.</td><td></td><td></td><td>0.19</td><td>0.03</td><td>37.71</td><td>&lt;0.04</td><td>0.13</td><td></td><td>17.59</td><td>0.12</td><td>&lt;0.02</td><td>2.16</td><td>1.80</td><td>37.02</td><td>97.14</td></th<>	LB034_ap015	0.11	<0.01			0.			0.19	0.03	37.71	<0.04	0.13		17.59	0.12	<0.02	2.16	1.80	37.02	97.14
0.12         0.13         0.13         0.12         0.14         0.15         0.14         0.15         0.14         0.15         0.14         0.15         0.14         0.15         0.14         0.14         0.14         0.15         0.14 <th< td=""><td>LB034_ap016</td><td>0.14</td><td>&lt;0.01</td><td></td><td></td><td>0</td><td></td><td></td><td>0.21</td><td>0.03</td><td>37.75</td><td>&lt;0.04</td><td>0.17</td><td></td><td>17.60</td><td>0.09</td><td>&lt;0.02</td><td>2.16</td><td>1.60</td><td>37.14</td><td>97.21</td></th<>	LB034_ap016	0.14	<0.01			0			0.21	0.03	37.75	<0.04	0.17		17.60	0.09	<0.02	2.16	1.60	37.14	97.21
CLUS         CALL         CALL <th< td=""><td>LB034_ap017</td><td>0.07</td><td>&lt;0.01</td><td></td><td></td><td>0.</td><td></td><td></td><td>0.22</td><td>0.04</td><td>37.98</td><td>&lt;0.04</td><td>0.17</td><td></td><td>17.78</td><td>0.15</td><td>&lt;0.02</td><td>2.26</td><td>4.</td><td>37.52</td><td>97.89</td></th<>	LB034_ap017	0.07	<0.01			0.			0.22	0.04	37.98	<0.04	0.17		17.78	0.15	<0.02	2.26	4.	37.52	97.89
Color   Colo	LB034_ap_018	0.12	<0.01			0.			0.16	0.02	37.95	<0.03	0.14		17.78	0.13	<0.02	2.46	1.27	37.54	97.91
0.02         0.03 <th< td=""><td>LB034_ap_019</td><td>0.14</td><td>&lt;0.01</td><td></td><td></td><td>0</td><td></td><td></td><td>0.20</td><td>0.02</td><td>37.85</td><td>&lt;0.04</td><td>0.15</td><td></td><td>17.68</td><td>0.10</td><td>&lt;0.02</td><td>2.51</td><td>1.32</td><td>37.31</td><td>97.48</td></th<>	LB034_ap_019	0.14	<0.01			0			0.20	0.02	37.85	<0.04	0.15		17.68	0.10	<0.02	2.51	1.32	37.31	97.48
	LB034_ap020	0.09	0.00			o o			0.16	0.02	37.98	0.06	0.16		17.73	0.13	<0.02	1.98	1.73	37.36	97.68
0.0         0.0 <td>LB034_ap021</td> <td>0.07</td> <td>0.0</td> <td></td> <td></td> <td>o c</td> <td></td> <td></td> <td>0.20</td> <td>0.02</td> <td>38.01</td> <td>40.04 40.04</td> <td>0.0</td> <td></td> <td>17.77</td> <td>- 6</td> <td>×0.02 ×0.02</td> <td>2.27</td> <td>26.1</td> <td>37.43</td> <td>90.30</td>	LB034_ap021	0.07	0.0			o c			0.20	0.02	38.01	40.04 40.04	0.0		17.77	- 6	×0.02 ×0.02	2.27	26.1	37.43	90.30
0.0         0.0 <td>LB034 ap 023</td> <td>0.12</td> <td>0.0</td> <td></td> <td></td> <td>ó</td> <td></td> <td></td> <td>0.18</td> <td>0.03</td> <td>38.43</td> <td>×0.04</td> <td>0.15</td> <td></td> <td>17.76</td> <td>0.12</td> <td>&lt;0.02</td> <td>2.36</td> <td>1.46</td> <td>37.64</td> <td>98.52</td>	LB034 ap 023	0.12	0.0			ó			0.18	0.03	38.43	×0.04	0.15		17.76	0.12	<0.02	2.36	1.46	37.64	98.52
0.05         4.01         0.05         0.04         0.05         0.04         0.05 <th< td=""><td>LB034_ap024</td><td>0.12</td><td>&lt;0.0&gt;</td><td></td><td></td><td>0</td><td></td><td></td><td>0.15</td><td>0.05</td><td>38.02</td><td>0.04</td><td>0.18</td><td></td><td>17.79</td><td>0.15</td><td>&lt;0.02</td><td>2.08</td><td>1.73</td><td>37.54</td><td>98.18</td></th<>	LB034_ap024	0.12	<0.0>			0			0.15	0.05	38.02	0.04	0.18		17.79	0.15	<0.02	2.08	1.73	37.54	98.18
0.02         4.01         0.02         4.02         0.02         4.02         0.03         4.02         0.03         4.02         0.03         4.02         0.03         4.02         0.03         4.02         0.03 <th< td=""><td>LB034_ap_025</td><td>0.05</td><td>&lt;0.01</td><td></td><td></td><td>0</td><td></td><td></td><td>0.24</td><td>0.05</td><td>38.01</td><td>&lt;0.04</td><td>0.16</td><td></td><td>17.80</td><td>0.12</td><td>&lt;0.02</td><td>2.48</td><td>1.40</td><td>37.46</td><td>97.98</td></th<>	LB034_ap_025	0.05	<0.01			0			0.24	0.05	38.01	<0.04	0.16		17.80	0.12	<0.02	2.48	1.40	37.46	97.98
0.12         4.01         4.02         4.02         4.01         6.02         4.01         3.88         4.04         4.02         0.02         1.78         0.03         0.03         0.04         4.01         3.88         4.04         0.02         1.14         0.03         0.04         4.01         3.88         4.04         0.02         1.81         0.04         0.01         0.04         4.02         0.04         0.02         0.04         4.02         0.04         0.02         0.04         4.02         0.04         0.02         0.04         0.02         0.04         0.02         0.04         0.02         0.04         0.02         0.04         0.02         0.04         0.02         0.04         0.02         0.04         0.03         0.04         0.02         0.04         0.04         0.04         0.02         0.04         0.02         0.04         0.02         0.04 <th< td=""><td>LB037_ap001</td><td>0.06</td><td>&lt;0.01</td><td></td><td></td><td>0.</td><td>٧</td><td></td><td></td><td>&lt;0.01</td><td>39.29</td><td>&lt;0.03</td><td>&lt;0.02</td><td></td><td>18.08</td><td>0.02</td><td>&lt;0.02</td><td>0.76</td><td>2.03</td><td>38.15</td><td>98.52</td></th<>	LB037_ap001	0.06	<0.01			0.	٧			<0.01	39.29	<0.03	<0.02		18.08	0.02	<0.02	0.76	2.03	38.15	98.52
0.10         0.01         0.01         0.01         0.01         0.01         0.02         0.03         0.03         0.04         0.03         0.04         0.03         0.04         0.03         0.04         0.03         0.04         0.03         0.04         0.02         0.04         0.03         0.04         0.02         0.04         0.02         0.04         0.02         0.04         0.02         0.04         0.03         0.03         0.04         0.03 <th< td=""><td>LB037_ap002</td><td>0.12</td><td>&lt;0.01</td><td></td><td></td><td>0&gt;</td><td></td><td></td><td></td><td>&lt;0.01</td><td>38.96</td><td>&lt;0.04</td><td>0.02</td><td></td><td>17.92</td><td>0.03</td><td>&lt;0.02</td><td>1.22</td><td>1.65</td><td>37.94</td><td>97.90</td></th<>	LB037_ap002	0.12	<0.01			0>				<0.01	38.96	<0.04	0.02		17.92	0.03	<0.02	1.22	1.65	37.94	97.90
0.08         0.01         0.01         0.01         0.01         0.02         0.01         0.02         0.03         0.03         0.04         0.02         1511         0.01         0.02         0.01         0.02         0.01         0.02         0.01         0.02         0.01         0.02         0.02         0.03 <th< td=""><td>LB037_ap003</td><td>0.10</td><td>&lt;0.01</td><td></td><td></td><td>.0×</td><td></td><td></td><td></td><td>0.01</td><td>38.76</td><td>&lt;0.03</td><td>0.04</td><td></td><td>17.87</td><td>0.09</td><td>&lt;0.02</td><td>1.86</td><td>1.71</td><td>37.76</td><td>98.40</td></th<>	LB037_ap003	0.10	<0.01			.0×				0.01	38.76	<0.03	0.04		17.87	0.09	<0.02	1.86	1.71	37.76	98.40
0.04         0.01         0.02 <th< td=""><td>LB037_ap004</td><td>0.08</td><td>&lt;0.01</td><td></td><td></td><td>٥</td><td></td><td></td><td>٠</td><td>&lt;0.01</td><td>39.28</td><td>&lt;0.04</td><td>&lt;0.02</td><td></td><td>18.11</td><td>0.01</td><td>0.02</td><td>0.67</td><td>2.07</td><td>38.19</td><td>98.48</td></th<>	LB037_ap004	0.08	<0.01			٥			٠	<0.01	39.28	<0.04	<0.02		18.11	0.01	0.02	0.67	2.07	38.19	98.48
0.05         -0.01         -0.02         -0.01         -0.02         -0.01         -0.02         -0.01         -0.02         -0.01         -0.02         -0.01         -0.02         -0.01         -0.02         -0.01         -0.02         -0.01         -0.02         -0.01         -0.02         -0.01         -0.02         -0.01         -0.02         -0.01         -0.02         -0.01         -0.02         -0.01         -0.02         -0.01         -0.02         -0.02         -0.02         -0.02         -0.02         -0.02         -0.02         -0.03	LB037_ap005	0.04	<0.01			0.				0.03	38.57	0.04	0.12		17.73	0.15	<0.02	1.87	1.80	37.56	98.33
0.08         -0.01         -0.08         -0.01         -0.08         -0.01         -0.08         -0.01         -0.08         -0.01         -0.02         -0.02         -0.02         -0.02         -0.02         -0.02         -0.02         -0.02         -0.02         -0.02         -0.02         -0.02         -0.02         -0.02         -0.02         -0.02         -0.02         -0.02         -0.02         -0.03	LB037_ap006	0.09	<0.01			0				<0.01	38.82	<0.04	<0.02		18.04	0.01	<0.02	0.85	1.77	38.03	97.86
0.00         4.00         0.00         4.00         0.00         4.00         0.00         4.00         0.00         4.00         0.00         4.00         0.00         4.00         0.00         4.00         0.00         4.00         0.00         4.00         0.00 <th< td=""><td>LB037_ap007</td><td>0.00</td><td>&lt;0.01</td><td></td><td></td><td>0</td><td></td><td></td><td></td><td>&lt;0.01</td><td>39.30</td><td>&lt;0.04</td><td>&lt;0.02</td><td></td><td>18.01</td><td>0.02</td><td>0.02</td><td>0.57</td><td>2.01</td><td>38.15</td><td>98.36</td></th<>	LB037_ap007	0.00	<0.01			0				<0.01	39.30	<0.04	<0.02		18.01	0.02	0.02	0.57	2.01	38.15	98.36
0.00         -0.01         0.04         -0.01         0.04         -0.01         0.04         -0.01         0.04         -0.01         0.04         -0.01         0.04         -0.01         0.04         -0.01         0.04         -0.01         0.04         -0.01         0.04         -0.01         0.04         -0.01         17.94         -0.01         -0.02         -0.01         -0.02         -0.01         -0.02	LB037_ap008	0.08	<0.01			0				<0.01	38.97	<0.04	0.05		18.10	0.02	<0.02	0.86	1.71	38.17	98.03
0.06         -0.11         -0.07         -0.12         -0.03	LB037_ap009	0.10	<0.01			0				<0.01	38.88	<0.03	0.03		18.00	0.02	<0.02	0.71	2.03	37.95	97.90
0.02         0.01         0.01         0.02         0.01         0.02         0.02         0.02         0.03         0.03         0.03         0.03         0.03         0.03         0.03         0.03         0.03         0.03         0.04         0.03         0.04         0.03         0.04         0.03         0.04         0.03         0.04         0.03         0.04         0.03         0.04         0.04         0.03         0.04         0.04         0.03         0.04         0.04         0.03         0.03         0.04         0.03 <th< td=""><td>LB037_ap010</td><td>0.05</td><td>0.03</td><td></td><td></td><td>o ç</td><td></td><td></td><td></td><td>0.03</td><td>38.47</td><td>&lt;0.03</td><td>0.13</td><td></td><td>17.88</td><td>0.12</td><td>&lt;0.02</td><td>1.83</td><td>1.80</td><td>37.70</td><td>98.44</td></th<>	LB037_ap010	0.05	0.03			o ç				0.03	38.47	<0.03	0.13		17.88	0.12	<0.02	1.83	1.80	37.70	98.44
0.12         0.13         0.14         0.04 <th< td=""><td>LB037_ap011</td><td>0.09</td><td>\$0.07 50.04</td><td></td><td></td><td></td><td></td><td></td><td></td><td>10.0&gt;</td><td>38.82</td><td>&lt;0.04</td><td>0.03</td><td></td><td>17.97</td><td>0.04</td><td>&lt;0.02</td><td>90:1</td><td>4.7</td><td>37.96</td><td>97.75</td></th<>	LB037_ap011	0.09	\$0.07 50.04							10.0>	38.82	<0.04	0.03		17.97	0.04	<0.02	90:1	4.7	37.96	97.75
0.10         0.01         0.10 <th< td=""><td>LB037_ap012</td><td>0.0</td><td>0.0</td><td></td><td></td><td></td><td></td><td></td><td>0.17</td><td>0.03</td><td>38.50</td><td>\$0.04 0.04</td><td>0.10</td><td></td><td>17.92</td><td>0.10</td><td>×0.02</td><td>8. 8</td><td><u>s</u> ;</td><td>37.09</td><td>98.00</td></th<>	LB037_ap012	0.0	0.0						0.17	0.03	38.50	\$0.04 0.04	0.10		17.92	0.10	×0.02	8. 8	<u>s</u> ;	37.09	98.00
0.00         0.01         0.02         0.04         0.02         0.04         0.02         0.04         0.02         0.04         0.02         1.84         0.04 <th< td=""><td>LB037_ap013</td><td>0.1Z</td><td>0.00</td><td></td><td></td><td>o c</td><td></td><td></td><td>0.17</td><td>0.03</td><td>38.74</td><td>40.0</td><td>0.08</td><td></td><td>17.75</td><td>4 0</td><td>×0.02</td><td>1.80</td><td>1.73</td><td>37.65</td><td>98.39</td></th<>	LB037_ap013	0.1Z	0.00			o c			0.17	0.03	38.74	40.0	0.08		17.75	4 0	×0.02	1.80	1.73	37.65	98.39
0.09          0.01         0.02          18.03         0.04          0.09          18.03         0.04          0.00         0.00          18.03         0.02          0.00	LB037 ap 015	0 10	0.0			ó				50 03	39.01	<0.03	000		2 1 8 1	0.03	\$0.0×	0.87	. 12	38.27	98.22
0.10         4.00         0.01         4.00         0.02         1.00         0.02         0.03         0.02         0.02         0.03         0.02         0.02         0.03         0.02 <th< td=""><td>LB037 ap 016</td><td>0.09</td><td>&lt;0.07</td><td></td><td></td><td>0</td><td></td><td></td><td></td><td>£0.01</td><td></td><td>0.05</td><td>&lt;0.02</td><td></td><td>18.03</td><td>0.01</td><td>&lt;0.02</td><td>0.90</td><td>1.59</td><td>38.17</td><td>98.08</td></th<>	LB037 ap 016	0.09	<0.07			0				£0.01		0.05	<0.02		18.03	0.01	<0.02	0.90	1.59	38.17	98.08
0.10 $< 0.01$ $< 0.01$ $< 0.01$ $< 0.01$ $< 0.02$ $< 0.02$ $< 0.02$ $< 0.02$ $< 0.02$ $< 0.02$ $< 0.02$ $< 0.02$ $< 0.02$ $< 0.02$ $< 0.02$ $< 0.02$ $< 0.02$ $< 0.02$ $< 0.02$ $< 0.02$ $< 0.02$ $< 0.02$ $< 0.02$ $< 0.02$ $< 0.02$ $< 0.02$ $< 0.02$ $< 0.02$ $< 0.02$ $< 0.02$ $< 0.02$ $< 0.02$ $< 0.02$ $< 0.02$ $< 0.02$ $< 0.02$ $< 0.02$ $< 0.02$ $< 0.02$ $< 0.02$ $< 0.02$ $< 0.02$ $< 0.02$ $< 0.02$ $< 0.02$ $< 0.02$ $< 0.02$ $< 0.02$ $< 0.02$ $< 0.02$ $< 0.02$ $< 0.02$ $< 0.02$ $< 0.02$ $< 0.02$ $< 0.02$ $< 0.02$ $< 0.02$ $< 0.02$ $< 0.02$ $< 0.02$ $< 0.02$ $< 0.02$ $< 0.02$ $< 0.02$ $< 0.02$ $< 0.02$ $< 0.02$ $< 0.02$ $< 0.02$ $< 0.02$ $< 0.02$ $< 0.02$ $< 0.02$ $< 0.02$ $< 0.02$ $< 0.02$ <th< td=""><td>LB037_ap_017</td><td>0.10</td><td>&lt;0.01</td><td></td><td></td><td>.0&gt;</td><td></td><td></td><td></td><td>&lt;0.01</td><td></td><td>&lt;0.04</td><td>&lt;0.02</td><td></td><td>18.03</td><td>0.02</td><td>0.02</td><td>0.95</td><td>1.79</td><td>38.13</td><td>98.30</td></th<>	LB037_ap_017	0.10	<0.01			.0>				<0.01		<0.04	<0.02		18.03	0.02	0.02	0.95	1.79	38.13	98.30
007         <0,011         <0,011         <0,017         <0,011         <0,011         <0,011         <0,011         <0,011         <0,011         <0,011         <0,011         <0,011         <0,011         <0,011         <0,011         <0,012         <0,012         <0,012         <0,012         <0,012         <0,012         <0,012         <0,013         <0,014         <0,014         <0,014         <0,014         <0,014         <0,014         <0,014         <0,014         <0,014         <0,014         <0,014         <0,014         <0,014         <0,014         <0,014         <0,014         <0,014         <0,014         <0,014         <0,014         <0,014         <0,014         <0,014         <0,014         <0,014         <0,014         <0,014         <0,014         <0,014         <0,014         <0,014         <0,014         <0,014         <0,014         <0,014         <0,014         <0,014         <0,014         <0,014         <0,014         <0,014         <0,014         <0,014         <0,014         <0,014         <0,014         <0,014         <0,014         <0,014         <0,014         <0,014         <0,014         <0,014         <0,014         <0,014         <0,014         <0,014         <0,014         <0,014         <0,014         <0,014 <td>LB037_ap018</td> <td>0.10</td> <td>&lt;0.01</td> <td></td> <td></td> <td>0.</td> <td></td> <td></td> <td></td> <td>&lt;0.01</td> <td></td> <td>&lt;0.04</td> <td>&lt;0.02</td> <td></td> <td>17.94</td> <td>0.02</td> <td>&lt;0.02</td> <td>0.75</td> <td>1.86</td> <td>37.95</td> <td>97.76</td>	LB037_ap018	0.10	<0.01			0.				<0.01		<0.04	<0.02		17.94	0.02	<0.02	0.75	1.86	37.95	97.76
0.09         <0,01         <0,02         <0,03         <0,04         <0,03         <0,04         <0,03         <0,04         <0,03         <0,02         <0,02         <0,04         <0.09         <0,04         <0.09         <0,04         <0.09         <0,04         <0.09         <0,04         <0.09         <0,04         <0.09         <0,04         <0.09         <0,04         <0.09         <0,04         <0.09         <0,04         <0.09         <0,04         <0.00         <0.04         <0.09         <0.04         <0.09         <0.04         <0.02         <0.04         <0.02         <0.02         <0.01         <0.02         <0.01         <0.02         <0.04         <0.02         <0.04         <0.02         <0.04         <0.02         <0.04         <0.02         <0.03         <0.02         <0.04         <0.02         <0.03         <0.04         <0.02         <0.02         <0.02         <0.03         <0.04         <0.03         <0.02         <0.04         <0.02         <0.02         <0.04         <0.02         <0.02         <0.02         <0.04         <0.02         <0.02         <0.02         <0.03         <0.04         <0.03         <0.02         <0.03         <0.02         <0.03         <0.02         <0.03	LB037_ap019	0.02	<0.01			.0>				<0.01		<0.04	0.03		18.06	0.04	<0.02	0.93	2.02	38.03	98.33
0.03         -0.04         0.02         18.0         0.04         0.02         18.0         0.04         0.02         18.0         0.04         0.02         18.0         0.04         0.02         18.0         1.04         0.02         18.0         1.04         1.04         0.02         1.04         0.04         0.02         1.04         0.04         0.02         1.04         0.04         0.02         1.04         0.04         0.02         1.04         0.02         1.04         0.02         1.04         0.04         0.02         1.04         0.02         1.04         0.02         1.04         0.02 <t< td=""><td>LB037_ap020</td><td>0.09</td><td>&lt;0.01</td><td></td><td></td><td>0.</td><td></td><td></td><td></td><td>&lt;0.01</td><td></td><td>&lt;0.03</td><td>0.04</td><td></td><td>17.95</td><td>0.03</td><td>&lt;0.02</td><td>1.02</td><td>1.71</td><td>38.03</td><td>98.07</td></t<>	LB037_ap020	0.09	<0.01			0.				<0.01		<0.03	0.04		17.95	0.03	<0.02	1.02	1.71	38.03	98.07
0.13         COLOR	LB037_ap021	0.03	<0.01			0			0.12	0.02		<0.04	90.00		18.00	90.0	<0.02	1.93	1.62	37.84	98.58
0.06         <0.01         <0.02	LB037_ap022	0.13	<0.01			0				0.02	38.46	0.04	0.08		17.76	0.13	<0.02	1.91	1.55	37.68	98.04
0.03         0.04         0.05         0.04         0.05         0.04         0.05         0.04         0.05         0.04         0.05         0.04         0.05         0.04         0.05         0.04         0.05         0.04         0.05         0.04         0.05         0.04         0.05         0.04         0.05         0.02         0.05         0.04         0.05         0.04         0.05         0.02         0.05         0.05         0.04         0.05 <th< td=""><td>LB037_ap023</td><td>0.06</td><td>0.07</td><td></td><td></td><td>0</td><td></td><td></td><td></td><td>60.01</td><td>39.27</td><td>&lt;0.03</td><td>&lt;0.02</td><td></td><td>18.08</td><td>0.01</td><td>&lt;0.02</td><td>0.58</td><td>2.07</td><td>38.14</td><td>98.35</td></th<>	LB037_ap023	0.06	0.07			0				60.01	39.27	<0.03	<0.02		18.08	0.01	<0.02	0.58	2.07	38.14	98.35
0.11         <0.01         <0.01         <0.02         0.04         <0.02         <0.04         <0.02         <0.04         <0.02         <0.04         <0.02         <0.04         <0.02         <0.04         <0.02         <0.04         <0.02         <0.04         <0.02         <0.04         <0.01         <0.02         <0.04         <0.01         <0.02         <0.04         <0.01         <0.02         <0.04         <0.01         <0.02         <0.04         <0.01         <0.02         <0.04         <0.01         <0.02         <0.04         <0.01         <0.02         <0.04         <0.01         <0.02         <0.04         <0.01         <0.02         <0.04         <0.01         <0.02         <0.04         <0.01         <0.02         <0.04         <0.02         <0.04         <0.02         <0.04         <0.02         <0.04         <0.02         <0.04         <0.02         <0.02         <0.02         <0.04         <0.02         <0.02         <0.02         <0.04         <0.02         <0.02         <0.02         <0.04         <0.01         <0.02         <0.04         <0.02         <0.02         <0.04         <0.04         <0.02         <0.02         <0.04         <0.04         <0.02         <0.02         <0.02         <	LB037 ap 025	0.09	0.0			ġ Ö			•	\$0.07 \$0.07	38.95	<0.04	<0.02		18.01		0.03	102	1.67	38.07	98.02
0.09 <td>LB037_ap026</td> <td>0.11</td> <td>&lt;0.01</td> <td></td> <td></td> <td>0&gt;</td> <td></td> <td></td> <td>٠</td> <td>₹0.01</td> <td>39.08</td> <td>&lt;0.04</td> <td>0.02</td> <td></td> <td>17.87</td> <td></td> <td>&lt;0.02</td> <td>1.02</td> <td>1.87</td> <td>37.84</td> <td>97.90</td>	LB037_ap026	0.11	<0.01			0>			٠	₹0.01	39.08	<0.04	0.02		17.87		<0.02	1.02	1.87	37.84	97.90
0.04 <td>LB037_ap027</td> <td>0.09</td> <td>&lt;0.01</td> <td></td> <td></td> <td>0</td> <td></td> <td></td> <td>٠</td> <td>&lt;0.01</td> <td>39.26</td> <td>&lt;0.03</td> <td>&lt;0.02</td> <td></td> <td>17.96</td> <td></td> <td>&lt;0.02</td> <td>0.64</td> <td>2.06</td> <td>38.00</td> <td>98.14</td>	LB037_ap027	0.09	<0.01			0			٠	<0.01	39.26	<0.03	<0.02		17.96		<0.02	0.64	2.06	38.00	98.14
0.09 <td>LB037_ap028</td> <td>0.04</td> <td>&lt;0.01</td> <td></td> <td></td> <td>.0&gt;</td> <td></td> <td></td> <td>٠</td> <td>&lt;0.01</td> <td>39.35</td> <td>&lt;0.04</td> <td>&lt;0.02</td> <td></td> <td>18.10</td> <td></td> <td>&lt;0.02</td> <td>0.79</td> <td>2.02</td> <td>38.17</td> <td>98.58</td>	LB037_ap028	0.04	<0.01			.0>			٠	<0.01	39.35	<0.04	<0.02		18.10		<0.02	0.79	2.02	38.17	98.58
0.14         <0.01         <0.02         0.04         <0.01         38.96         <0.03         0.02         17.87         0.02         <0.02         0.02         37.74           0.10         <0.01	LB037_ap029	0.00	<0.01			0.	٠		٠	<0.01	38.93	<0.04	<0.02		18.12		<0.02	1.08	1.73	38.14	98.26
0.10 <0.01 <0.01 <0.001 <0.007 <0.005 0.07 <0.001 38.99 <0.004 0.004 17.88 0.05 <0.02 1.11 1.51 38.02 <0.005 0.009 <0.007 0.005 0.003 <0.007 0.005 0.001 39.16 <0.003 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 0.007 1.99 37.94 <0.005 <0.002 <0.002 0.007 1.99 37.94 <0.005 <0.002 0.005 <0.002 0.007 1.99 37.94 <0.005 <0.002 0.005 <0.002 0.007 1.99 37.99 <0.001 0.008 <0.001 0.008 <0.001 0.008 <0.001 0.009 <0.001 0.008 <0.001 0.009 <0.001 0.009 <0.001 0.008 <0.001 0.009 <0.001 0.009 0.001 0.009 0.001 0.009 0.001 0.009 0.001 0.009 0.001 0.009 0.001 0.009 0.001 0.009 0.001 0.001 0.009 0.001 0.009 0.001 0.009 0.001 0.001 0.009 0.001	LB037_ap030	0.14	<0.01			0.	v		٠	<0.01	38.96	<0.03	0.02		17.87		<0.02	99.0	2.30	37.74	97.85
0.08 <0.01 < 0.06	LB037_ap031	0.10	<0.01			0>			•	<0.01	38.99	<0.04	0.04		17.88		<0.02	<del>1</del> .	1.51	38.02	97.82
0.12 < 0.01	LB037_ap032	0.08	<0.01			.0 0		•		<0.01	39.16	<0.03	<0.02		17.96		<0.02	0.87	1.99	37.94	98.04
0.09 <0.01	LB037_ap033	0.12	<0.01			0.			•	<0.01	39.13	<0.04	<0.02		17.98	0.01	<0.02	0.70	1.97	38.05	98.16
0.11 < 0.01	LB037_ap034	0.00	<0.01			0.			•	<0.01	39.24	0.05	<0.02		18.06	0.05	<0.02	0.87	2.05	38.18	98.78
0.11 < 0.01 < 0.01	LB037_ap035	0.11	\$ 0.04 5 6			o é	v		•	<0.01 0.03	39.07	<0.04 6.04	0.0 4 6		17.92	0.02	<0.02	0.99	1.76	37.99	98.01
0.11 0.014 0.00 0.01 39.09 0.004 0.00 18.00 0.02 0.02 0.04 0.02	LB03/_ap036	11.0	\$0.07 50.04			O				0.01	38.61	<0.04 6.04	0.10		17.76	71.0	<0.02	98.5	88:	37.65	98.49
	LBUS/_apus/		• • • •	٠						.0.0	39.09	<0.04	0.02		18.00	0.02	<0.02	0.78	4.74	38.07	98.50

Appendix C: Eastern Sunda arc apatite trace element chemistry (EMPA)

								•		•	•	•	•		-	•	•		
Analysis ID	Si	A	Га	Ce	PN	Fe	Mn	Mg	Ca	Sr	Na	¥	Ь	S	As	Ö	Е	O stoi.	TOTAL
LB037_ap038	0.09	<0.01			0.09	0.02	0.09	<0.01	39.15	<0.04	0.05		17.95	0.03	<0.02	1.05	1.98	37.94	98.43
LB037_ap039	90.0	<0.01			<0.06	0.02	90.0	0.01	39.12	40.04	<0.02		17.97	0.03	<0.02	0.97	1.61	38.08	97.93
LB037_ap040	0.09	<0.01			<0.0>	<0.02	90.0	<0.01	39.23	<0.04	<0.02		18.03	0.01	<0.02	0.72	1.95	38.11	98.20
NEF-02_ap_001	0.05	<0.01			>0.06	0.05	0.11	<0.01	38.65	<0.03	0.04		17.71	0.02	<0.02	<del>1</del> .92	1.24	37.58	97.48
	90:0	<0.01			0.11	0.04	0.28	<0.01	38.75	9.0	9.0		17.99	0.03	<0.02	0.39	2.63	37.75	98.10
NEF-02_ap003	0.05	<0.01			90·0×	0.14	0.46	0.03	38.71	<0.03	9.0		17.97	0.02	<0.02	1.07	1.93	37.91	98.32
	0.06	40.01 5			0.11	<0.02	0.12	<0.01	39.13	40.04 40.04	0.03		17.92	0.06	<0.02	0.42	2.67	37.79	98.31
NEF-02_ap005	0.07	0.00			V 0.06	0.05	4.0	0.0	38.55	40.0	0.0		17.88	0.0	×0.02	58. 58.	L.C.	37.68	98.03
NEF-02_ap_006	0.0	0.07			0.07	0.12	94.0	0.03	38.12	0.03	0.00		17.67	5 6	×0.02 ×0.02	2.53	0.00	37.66	97.30
NEF-02 ap 008	9.0	×0.01			90:0>	<0.02	0.12	<0.01	39.04	¢0:03	<0.02		18.00	0.01	<0.02	88.0	3 2	38.07	97.70
	0.08	<0.01			<0.0>	0.14	0.38	0.02	38.03	40.0	0.09		17.71	0.10	<0.02	3.17	0.75	37.45	97.92
NEF-02_ap010	0.04	<0.01			0.07	0.03	0.11	<0.01	39.06	<0.03	0.07		17.91	0.03	<0.02	0.79	2.29	37.76	98.17
NEF-02_ap011	90.0	<0.01			0.08	0.14	0.34	0.02	37.89	40.04	0.11		17.80	0.08	<0.02	3.44	0.77	37.39	98.12
NEF-02_ap012	0.05	<0.01			<0.0>	0.03	0.19	<0.01	38.83	<0.04	0.03		17.95	<0.01	0.02	1.27	1.88	37.76	98.00
NEF-02_ap013	0.05	<0.01			<0.0>	0.04	0.20	<0.01	39.20	<b>&lt;</b> 0.04	0.05		18.00	0.02	<0.02	99.0	2.72	37.76	29.67
NEF-02_ap014	0.06	<0.01			<0.06	0.03	0.12	<0.01	38.66	<0.04	0.03		17.83	0.02	<0.02	1.66	1.35	37.69	97.47
NEF-02_ap015	0.03	<0.01			0.07	0.04	0.29	<0.01	39.01	0.04	0.05		18.01	0.01	<0.02	0.49	3.16	37.57	98.76
NEF-02_ap016	0.05	<0.01			<0.0>	<0.02	0.11	<0.01	38.77	<0.04	0.03		17.99	0.02	<0.02	1.42	1.69	37.83	97.91
NEF-02_ap017	90:0	<0.01			<0.06	<0.02	0.07	<0.01	38.97	×0.04	<0.02		18.10	<0.01	<0.02	0.61	2.37	37.92	98.11
NEF-02_ap018	90:0	<0.01			0.09	0.15	0.48	0.04	37.54	×0.04	0.09		17.64	0.07	<0.02	3.90	0.47	37.13	97.67
NEF-02_ap019	0.07	<0.01			0.08	0.07	0.32	<0.01	38.37	40.04	0.05		17.79	0.03	<0.02	2.43	66.0	37.60	97.79
NEF-02_ap_020	0.05	\$0.04 50.04			40.06 40.06	0.09	0.23	40.01	38.13	40:04 20:04	0.03		17.79	0.04	<0.02	3.28	0.55	37.41	97.56
NEF-02_ap_021	0.05	0.0			0.70	0.03	0.15	r0.0>	38.82	0.0	40.0		18.1	0.02	70.07	0.70	LO.2	38.04	98.27
NEF-02_ap022	60.0	0.00			9.00	0.10	0 0	20.02	00.00	0:0	90.0		00.7	5 5	<0.02 70.03	0.10	B 00 C	37.70	90.78
NEF-02_ap_023	0.03	0.00			\$0.00 0.00	0.05	67.0	10.05	36.98	\$ 0.0 \$ 0.0	0.03		18.00	10.05	V.02	0.59	88.7	37.70	98.62
NEE-02 ap 025	0.00	0.00			0.0	2 7 7	0.37	0.02	28 5	5 0	20.00		37.75	80.0	20.02	5 - 5	8. 6	27.53	27.70
NEF-02 ap 026	9.00	×0.07			×0.06	0.05	0.24	<0.01	38.88	40.0	0.0		18.13	0.00	<0.02	0.39	3.02	37.75	98.59
NEF-02 ap 027	0.05	0.01			<0.0>	0.02	0.11	<0.01	38.66	<b>*</b> 0:0 <b>*</b>	0.05		17.89	0.0	<0.02	0.98	2.03	37.64	97.47
NEF-02_ap_028	0.04	<0.01			<0.0>	0.11	0.46	0.02	38.59	<0.04	0.02		18.00	<0.01	<0.02	0.75	2.39	37.70	98.08
NEF-02_ap_029	90.0	<0.01			<0.0>	0.05	0.11	<0.01	38.66	40.04	90.0		17.84	0.02	<0.02	1.24	1.51	37.74	97.30
NEF-02_ap_030	0.06	<0.01			0.10	0.03	0.22	<0.01	38.58	<0.03	90.0		17.89	0.03	<0.02	0.79	2.35	37.59	97.71
NEF-02_ap_031	0.07	<0.01			<0.06	0.22	0.18	0.02	38.28	0.0	90.0		17.71	0.10	<0.02	2.04	1.16	37.60	97.49
NEF-02_ap032	0.09	<0.01			0.09	0.12	0.49	0.02	37.76	0.04			17.71	0.11	<0.02	2.93	0.85	37.45	77.76
SLG-01_ap_001	0.03	<0.01	<0.09	<0.1	<0.06	0.02	90.0	<0.01	39.08	<0.03		0.03	18.01	0.02	<0.02	0.52	2.85	37.65	98.27
SLG-01_ap002	0.03	<0.01	<0.09	<0.09	>0.06	<0.02	0.08	<0.01	39.11	0.05		<0.04	17.96	0.01	<0.02	0.75	2.61	37.67	98.29
SLG-01_ap_003	0.02	0.01	<0.09	<0.09	0.07	0.07	0.13	<0.01	39.33	<0.03		<0.04	18.07	0.05	<0.02	99.0	2.77	37.84	99.03
SLG-01_ap_004	0.03	<0.01	<0.09	<0.09	<0.06	0.05	0.08	<0.01	39.29	×0.04		<0.03	18.09	<0.01	<0.02	0.46	2.98	37.78	98.75
SLG-01_ap_005	0.05	0.07	40.09 60.09	0.10 0.	0.08	0.05	90.0	0.01	39.47	\$0.0 <del>4</del>	0.02	<0.03	18.14	0.02	0.05	0.62	2.85	37.98	4. 8
SLG-01_ap_006	0.02	0.0	60.00	60.07	9.00	20.02	00.0	0.0	30.10	\$ 50		50.03	0 6 4 6	0.0	20.02	16.0	2 2.00	38.07	90.70
SLG-01 ap 008	0.03	×0.01	×0.08	60.0>	0.08	<0.02	90.0	×0.01	39.13	×0.03		<0.05	18.03	0.02	<0.0>	0.67	295	37.62	98.60
SLG-01 ap 009	0.02	<0.01	<0.0>	<0.09	0.07	0.02	0.10	<0.01	39.29	<0.03		<0.03	18.00	<0.01	<0.02	0.49	2.94	37.67	98.58
SLG-01_ap_010	0.0	0.01	<0.08	<0.09	0.08	0.04	90.0	<0.01	38.65	0.05		<0.03	17.89	0.01	<0.02	0.55	2.75	37.40	97.56
SLG-01_ap_011	0.04	<0.01	<0.08	<0.09	0.08	<0.02	0.05	<0.01	39.19	<0.03		<0.03	18.07	<0.01	<0.02	0.75	2.58	37.84	98.62
SLG-01_ap_012	0.05	<0.01	<0.09	<0.09	0.08	<0.02	0.04	<0.01	39.34	<0.03		<0.03	18.22	0.01	<0.02	0.52	2.54	38.15	98.95
SLG-01_ap_013	0.02	<0.01	<0.09	0.16	<0.0>	0.02	60.0	<0.01	39.38	<0.03		<0.04	18.08	0.04	<0.02	0.53	2.83	37.91	60.66
SLG-01_ap_014	0.04	<0.01		<0.09	<0.06	0.04	0.14	<0.01	39.12	<0.03	0.04	0.03	18.11	0.01	0.02	0.31	2.33	38.14	98.33
SLG-01_ap_015	0.03	0.01	<0.08		<0.0>	0.03	90.0	0.01	39.24	<b>^</b> 0.0 <b>4</b>	0.03	<0.04	18.10	0.02	<0.02	0.71	2.76	37.88	99.01
*	*all elements in wt. %	ents ir	n wt. %		٦A).														
					•														

Appendix C: Eastern Sunda arc apatite trace element chemistry (EMPA)

				•												,		`	
Analysis ID	Si	A	La	Ce	PN	Fe	Mn	Mg	Ca	Sr	Na	×	۵	S	As	Ö	ш	O stoi.	TOTAL
SLG-01_ap016	0.03	<0.01	<0.09	<0.09	<0.0>	<0.02	90.0	<0.01	39.26	<0.04	<0.02	<0.03	18.00	0.01	<0.02	0.42	2.86	37.70	98.35
SLG-01_ap_017	0.05	<0.01	<0.09	<0.09	>0.06	<0.02	0.05	<0.01	39.29	<0.04	0.03	<0.04	18.03	0.01	<0.02	0.67	2.62	37.81	98.54
SLG-01_ap_018	0.04	<0.01	<0.08	0.15	60.0	<0.02	0.05	<0.01	38.93	<0.03	0.04	<0.03	18.11	0.01	<0.02	0.46	2.67	37.83	98.38
SLG-01_ap_019	0.02	<0.01	<0.09	<0.09	<0.06	<0.02	90.0	<0.01	39.19	<0.04	0.02	<0.03	18.07	0.02	<0.02	0.59	2.68	37.82	98.46
SLG-01_ap_020	0.02	<0.01	0.08	0.13	0.09	0.04	0.07	<0.01	39.05	<0.03	<0.02	<0.04	17.94	0.01	<0.02	0.48	2.61	37.69	98.21
SLG-01_ap_021	0.02	<0.01	<0.09	<0.1	<0.07	<0.02	0.04	<0.01	38.95	<0.04	0.03	\$0.0v	17.95	0.01	<0.02	0.59	2.79	37.49	97.87
SLG-01_ap022	0.02	<0.01	<0.09	<0.09	>0.06	0.03	0.08	<0.01	39.24	<0.04	0.02	\$0.0 <del>4</del>	18.04	0.02	<0.02	0.65	2.60	37.82	98.51
SLG-01_ap_023	0.02	<0.01	<0.09	<0.09	<0.0>	0.03	90.0	<0.01	39.18	<0.03	0.02	×0.04	18.02	0.02	<0.02	0.55	2.55	37.79	98.24
SLG-01_ap_024	0.02	<0.01	<0.09	<0.09	<0.0>	0.03	0.09	<0.01	38.98	<0.03	0.03	<0.03	17.96	0.01	<0.02	0.65	2.76	37.56	98.09
SLG-01_ap_025	0.18	0.05	<0.08	0.10	0.11	0.05	0.09	<0.01	38.26	<0.03	0.03	<0.03	17.59	0.02	<0.02	0.53	2.70	37.12	96.83
SLG-01_ap_026	0.07	0.04	<0.09	<0.09	<0.0>	0.03	90.0	<0.01	39.30	<0.04	<0.02	<0.03	18.01	0.03	<0.02	0.50	2.82	37.84	98.72
SLG-01_ap_027	0.02	<0.01	<0.09	<0.09	90.0	0.04	0.05	<0.01	39.09	<0.03	<0.02	<0.03	17.95	<0.01	<0.02	0.54	3.07	37.50	98.36
SLG-01_ap_028	0.03	<0.01	<0.09	<0.09	>0.06	0.04	0.09	<0.01	39.29	<0.04	0.05	0.03	18.00	0.02	<0.02	0.50	2.83	37.74	98.63
SLG-02_ap_001	0.08	0.01	<0.09	0.22	0.08	0.09	0.19	0.03	37.75	<0.04	0.13	<0.03	17.61	0.05	<0.02	4.15	0.38	37.11	97.89
SLG-02_ap002	0.08	<0.01	<0.09	0.28	0.17	<0.02	0.04	<0.01	38.56	<0.03	0.03	<0.03	17.70	0.03	0.03	1.93	0.77	37.75	97.37
SLG-02_ap_003	0.09	<0.01	0.09	0.23	0.10	<0.02	0.08	<0.01	38.58	<0.04	0.03	<0.04	17.70	0.03	0.03	1.84	0.34	37.98	97.13
SLG-02_ap_004	0.07	<0.01	0.13	0.16	60.0	0.10	0.15	0.03	38.00	<0.04	0.12	0.03	17.62	0.04	<0.02	4.35	0.38	37.14	98.40
SLG-02_ap_005	0.09	<0.01	<0.09	0.26	0.15	<0.02	0.07	<0.01	38.43	<0.04	0.03	<0.04	17.78	0.02	0.02	2.17	0.43	37.88	97.32
SLG-02_ap_006	90:0	<0.01	<0.09	0.19	0.10	<0.02	0.03	<0.01	38.63	<0.03	<0.02	<0.04	17.84	0.01	<0.02	1.31	0.88	37.96	97.02
SLG-02_ap_007	90.0	<0.01	0.10	0.18	0.15	0.10	0.09	0.03	38.16	<0.04	0.13	<0.03	17.75	90.0	0.02	3.58	0.79	37.38	98.59
SLG-02_ap_008	0.07	<0.01	<0.08	0.13	0.08	<0.02	<0.03	<0.01	38.96	<0.03	<0.02	<0.04	18.01	0.01	<0.02	0.53	1.27	38.32	97.38
SLG-02_ap_009	0.08	<0.01	0.11	0.23	0.08	<0.02	<0.03	<0.01	38.72	<0.04	0.02	0.03	17.83	0.01	0.04	1.30	0.49	38.19	97.13
SLG-02_ap010	0.08	<0.01	0.09	0.24	0.13	<0.02	90.0	<0.01	38.60	<0.04	0.03	<0.04	17.69	0.03	0.03	1.92	0.64	37.80	97.33
SLG-02_ap011	90.0	<0.01	<0.09	0.12	0.08	<0.02	90.0	<0.01	38.95	<0.03	0.05	\$0.0 <del>8</del>	17.89	<0.01	<0.02	1.30	0.34	38.37	97.18
SLG-02_ap012	0.07	<0.01	<0.09	0.25	60.0	0.12	0.18	0.03	37.94	<0.04	0.16	<0.03	17.65	0.13	<0.02	4.12	0.49	37.32	98.55
SLG-02_ap013	0.08	<0.01	0.10	0.27	0.10	<0.02	90.0	<0.01	38.52	<0.04	<0.02	×0.04	17.69	0.03	<0.02	2.48	60.0	37.86	97.29
SLG-02_ap014	0.08	<0.01	<0.09	0.16	0.15	<0.02	90.0	<0.01	38.64	<0.04	0.02	\$0.0 <del>\$</del>	17.81	0.01	0.04	1.73	0.62	37.99	97.29
SLG-02_ap015	0.07	<0.01 2	0.11	0.21	0.15	<0.02	0.07	<0.01	38.61	<0.04	0.03	\$0.0 <del>4</del>	17.82	0.02	0.05	2.07	0.58	37.97	97.77
SLG-02_ap016	0.06	10.02	\$0.09 0.09	0.13	×0.0/	00	4 .0	0.04	38.37	\$0.04 0.04	60.0	<0.03	67.71	0.08	<0.02	ν, . Σ	00:1	37.32	98.30
SLG-02_ap_017	0.08	×0.01	<0.09	0.14	0.07	<0.02	40.0	0.05	38.60	<0.04 0.04	<0.02	\$0.0 80.0	08.71	10.0	40.0	1.48	Q. 0	38.07	96.82
SLG-02_ap018	0.08	0.0	<0.09	0.23	21.0	×0.02	<0.03	0.00	38.70	<0.04 0.04	0.02	\$0.03	17.76	0.02	0.02	2.35	0.35	37.92	97.58
SLG-02 ap 020	0.08	×0.01	<0.09	0.19	0.13	<0.02	<0.03	\$0.07 \$0.07	38.30	<0.04	0.03	×0.03	17.70	0.03	<0.02	2.05	0.22	37.82	96.54
SLG-02 ap 021	0.10	<0.01	0.11	0.13	0.07	0.03	0.03	<0.01	38.79	<0.03	0.03	<0.03	17.81	0.03	0.03	1.50	1.07	37.95	29.76
SLG-02_ap022	0.07	<0.01	0.10	0.24	0.10	0.12	0.13	0.03	38.19	<0.04	0.12	<0.03	17.78	90.0	<0.02	3.24	0.81	37.54	98.53
SLG-02_ap023	0.10	<0.01	<0.09	0.16	0.17	<0.02	0.05	<0.01	38.65	<0.03	0.03	<0.04	17.68	0.02	0.02	1.95	0.31	37.93	97.07
SLG-02_ap_024	90.0	0.02	<0.09	<0.1	0.08	<0.02	<0.03	<0.01	39.01	<0.04	<0.02	<0.0 <del>4</del>	17.91	0.01	0.03	0.80	1.38	38.09	97.39
SLG-02_ap_025	0.09	<0.01	<0.09	0.19	0.12	<0.02	90.0	<0.01	38.80	<0.04	<0.02	40.0 <del>^</del>	17.81	0.02	0.04	1.50	1.12	37.92	97.67
SLG-02_ap026	0.07	<0.01	0.10	0.17	0.09	<0.02	0.06	<0.01	38.46	0.04	0.03	<0.03	17.72	0.03	<0.02	1.99	<0.07	38.01	96.77
SLG-02_ap_027	0.12	0.04	0.12	0.18	0.17	<0.02	9.04	<0.01	38.53	<0.04 0.04	0.02	\$.0 \$.0 \$.0	17.88	0.02	0.02	1.23	0.54	38.22	97.10
ELF-02_ap_001	t 00	0.0	0.07		90.0	0.00	0.25	0.02	38.96	40.04		8.00	90.00	0.0	0.02	0.9	2.50	37.68	90.73
ELF-02 ap 003	0.05	<0.0	60.0>	0.14	0.08	0.03	0.05	<0.01	39.13	<0.03	0.05	<0.03	18.01	0.02	<0.0>	0.23	3.10	37.69	98.59
ELF-02_ap_004	90.0	<0.01	<0.0>	<0.09	>0.06	0.11	0.19	0.02	39.15	<0.04	0.05	<0.03	18.03	0.03	0.03	0.36	3.12	37.77	98.95
ELF-02_ap005	<0.01	<0.01	<0.09	<0.09	>0.06	0.15	0.48	0.03	38.82	90.0	0.05	<0.03	18.03	90.0	<0.02	0.63	2.97	37.69	98.96
ELF-02_ap006	0.03	<0.01	<0.08	0.09	<0.06	0.14	0.23	0.02	38.93	<0.04	0.05	<b>4</b> 0.04	18.12	0.03	<0.02	0.55	3.15	37.75	60.66
ELF-02_ap_007	0.02	<0.01	<0.09	<0.1	>0.06	0.07	0.19	0.01	37.76	<0.04	<0.02	0.03	18.27	0.02	<0.02	0.27	3.58	37.27	97.52
ELF-02_ap008	0.07	<0.01	<0.08	<0.1	90.0	0.15	0.25	0.01	38.80	<0.03	0.04	<b>*</b> 0.0 <b>*</b>	17.85	0.03	0.03	0.28	3.34	37.36	98.27
ELF-02_ap_009	0.01	<0.01	<0.09	<0.09	<0.0>	0.11	0.18	0.03	39.08	<0.04	<0.02	\$0.0 \$4	18.18	0.03	0.03	0.46	3.29	37.77	99.17
ELF-02_ap010	0:03	<0.01	<0.09	٠,	90:0>	0.17	0.30	0.03	38.93	0.04	90.0	<0.03	18.12	0.04	<0.02	0.41	3.53	37.66	99.31
_al	*all elements in wt. %	nts in	wt. %	(EMPA	A).														

Appendix C: Eastern Sunda arc apatite trace element chemistry (EMPA)

Ş Ş		.01 <0.08	<0.09	<0.07	0.11	0.59	0.02	38.83	<0.04	0.07	<0.03	18.04	0.03	<0.02	99.0	2.67	37.82	98.86
Ö Ö			<0.09	6 6	- 0	2 2	1	2			9		9		8	į	2	2
0.00				00.0s	40.0	20.00	<0.01	39.40	0.04	0.08	\$0.0 \$0.0	17.96	0.22	<0.02	0.07	3.66	37.77	99.27
0.0 0.0			<0.09	<0.06	0.05	0.12	<0.01	39.49	<0.04	<0.02	×0.04	18.24	0.02	0.02	0.29	3.18	38.01	99.45
0 0		<0.01 0.09	•	<0.07	0.10	0.23	0.01	39.06	<0.04	0.04	<0.03	18.07	0.02	<0.02	0.24	3.54	37.61	99.05
0 0			<0.09	0.07	0.10	0.22	0.02	39.61	<0.04	0.04	40.0	18.20	0.02	<0.02	0.43	3.40	37.99	100.12
Ö Ö	•		<0.09	>0.06	0.15	0.22	0.02	38.86	<0.04	0.05	<0.03	18.20	0.02	<0.02	0.36	3.56	37.70	99.21
Ö Ö		<0.01 <0.08	0.13	0.07	0.16	0.30	0.03	38.97	0.05	0.03	\$0.0 \$0.0	18.08	0.0	<0.02 0.02	0.50	3.03	37.78	99.15
Ö Ö			×0.03	0.00	0.02	0.09	<0.01	39.34	<0.04	0.00	t 0.05	18.13	0.02	0.03	0.27	2.93	37.96	98.93
<u> </u>			<0.09	<0.0>	0.13	0.22	0.02	38.92	0.04	90.0	<0.03	18.04	0.04	<0.02	0.51	3.26	37.57	98.81
0		<0.01 <0.09	0.14	<0.06	90.0	0.16	<0.01	39.20	<0.04	0.05	<0.03	18.17	0.02	<0.02	0.32	3.45	37.73	99.31
	22		<0.09	0.12	0.07	0.09	0.01	39.31	<0.04	0.03	<0.03	18.19	0.03	<0.02	0.19	3.26	37.97	99.30
			0.12	<0.07	0.11	0.25	0.02	39.08	<0.04	0.02	<0.03	17.98	0.02	<0.02	0.39	3.10	37.62	98.72
			<0.09	<0.06	0.10	0.18	0.01	39.23	0.05	0.03	\$0.04	18.12	0.01	0.03	0.27	3.46	37.68	99.18
ELF-02_ap_025 <0.01	2	<ul><li>&lt;0.09</li><li>&lt;0.09</li><li>&lt;0.09</li></ul>	1.00	/0.0 90 90 90	0.04	0.10	10.05	39.24	\$0.04 0.04	40.0	\$0.03	28.70	10.0	\$0:02 0.02	0.20	2 00	37.70	98.12
			0.09	0.07	0.14	0.19	0.02	38.93	0.04	0.03	\$0.0v	18.09	0.02	<0.02	0.61	2.89	37.75	98.79
			0.13	0.07	0.24	0.39	0.04	38.60	0.04	0.07	<0.03	18.04	0.03	<0.02	0.63	3.11	37.60	99.03
	0.04 <0.0		<0.09	<0.06	0.13	0.23	0.03	39.07	<0.04	0.04	<0.03	18.15	0.02	<0.02	0.42	3.29	37.81	99.22
			<0.09	<0.06	0.19	0.30	0.03	38.96	0.05	0.10	<0.03	17.93	0.14	<0.02	0.58	3.01	37.75	99.08
			<0.1	<0.06	90.0	0.13	0.01	39.38	<0.03	0.03	<0.03	18.09	0.02	<0.02	0.37	2.74	37.97	98.82
	2		0.11	<0.07	<0.02	0.11	<0.01	39.21	<0.03	0.04	\$0.0 <del>4</del>	18.19	0.01	<0.02	0.24	3.22	37.85	99.00
ELF-02_ap033 <0.01	∀ .	<0.01 <0.09	40.09 00.09	90.00	0.21	0.63	0.04	38.54	90.0	0.00	0.03	18.03	0.10	<0.02	0.76	2.98	37.70	99.11
	V		0.09	00.00	0.00	0. T	10.07	38.64	50:00	0.00 RO	5 6	17.97	0.0	5 00	07:1	2.01	37.65	90.30
			<0.09	×0.06	0.08	0.19	0.01	39.10	0.05	0.05	\$ 0.0 \$ 40.0	18.00	0.0	<0.02	0.52	2.72	37.78	98.54
			<0.09	0.07	0.08	0.22	0.02	38.94	<0.04	90:0	\$0.0×	18.08	0.01	<0.02	0.77	2.31	37.91	98.49
				0.10	0.13	0.21	0.02	38.87	0.04	90.0	×0.04	18.09	0.03	0.03	1.02	2.53	37.92	99.41
	0.06 <0.	<0.01 <0.09	<0.09	<0.0>	0.15	0.27	0.03	38.33	<0.03	90:0	<0.03	17.83	0.03	<0.02	1.01	2.41	37.36	97.53
			0.15	0.08	0.10	0.14	0.02	39.13	<0.04	0.05	×0.04	18.03	0.01	<0.02	0.79	2.44	37.90	98.86
		∀		0.17	60.0		0.02	38.78	<0.04	0.08	<0.03	18.04	90.0	<0.02	1.01	2.32	37.91	98.74
ELF-01_ap009 0.	0.02 <0.01	<ul><li>&lt;0.01</li><li>&lt;0.08</li><li>&lt;0.08</li></ul>	<0.09	40.06 0.13	0.08	0.22	0.02	39.07	<0.04	0.03	\$0.03	18.16	0.03	<0.02	0.53	2.70	37.99	98.94
		V		×0.06	0.05		<0.01		<0.03	5 6	×0.03	18.01	0.02	<0.02	0.41	2.81	37.82	98.62
			<0.1	>0.06	0.08		<0.01		<0.04	90:0	<0.03	17.89	0.07	<0.02	0.59	2.75	37.73	98.44
	0.03 <0.01	.01 <0.09	0.23	0.08	0.17		90.0		90.0	0.12	×0.04	17.99	0.07	<0.02	1.61	1.85	37.82	98.73
			<0.1	<0.07	60.0	0.19	0.01		<0.04	0.05	<0.03	18.03	0.03	<0.02	06.0	2.29	37.94	98.73
			<0.09	<0.06	0.12	0.23	0.04	39.03	<0.03	0.05	<0.0 <del>4</del>	18.01	0.01	<0.02	0.93	2.21	37.90	98.56
			<0.09	<0.0>	0.08	0.15	0.02	39.27	<0.03	0.03	<0.03	18.20	0.01	<0.02	69.0	2.45	38.13	99.06
			<0.09	0.08	0.05	0.27	<0.01	39.09	<0.04	0.04	<0.03	18.02	0.09	<0.02	0.59	2.60	38.03	98.95
ELF-01_ap018 0.5	0.01	<0.01 <0.08	0.10	0.00	70.0	0.33	0.04	38.56	50:04 0.04	0.00	50:05	17.66	20:0	50.02	0.54	2.38	37.40	90.30
			<0.09	0.10	0.14	0.20	0.03	38.76	<0.03	0.04	<0.04	18.06	<0.01	<0.02	0.91	2.12	37.90	98.29
		<0.01 <0.09	<0.09	90.0	90.0	0.16	0.01	38.82	<0.04	0.05	<0.04	18.05	0.01	<0.02	1.14	2.21	37.79	98.40
	0.04 <0.0	<0.01 <0.08	<0.09	0.10	0.16	0.22	0.04	38.86	<0.04	90.0	<0.03	18.01	0.01	0.04	0.61	2.59	37.81	98.54
ELF-01_ap023 0.			<0.09	<0.07	0.10	0.19	0.02	38.90	<0.03	0.05	<0.03	18.06	0.02	<0.02	0.79	2.34	37.90	98.39
			0.14	<0.07	90.0	0.08	0.02	39.16	0.04	0.05	×0.04	17.94	0.03	<0.02	0.73	2.34	37.87	98.51
			<0.09	>0.06	90.0	0.33	0.01	39.05	<0.04	<0.02	<0.03	18.01	0.02	0.03	0.48	2.72	37.79	98.52
			<0.09	90.09	0.09	0.13	<0.01 0.03	38.88	<0.04 0.04	0.06	<0.03	17.93	0.02	<0.02	0.92	2.36	37.67	98.10
ELF-01_ap027 0.	0.05 <0.	7 0.05 <0.01 <0.09	0.10 <0	<0.07	0.08	0.22	0.02	38.66	<0.04	0.09	<0.03	18.01	0.04	<0.02	1.16	2.31	37.75	98.51

Appendix C: Eastern Sunda arc apatite trace element chemistry (EMPA)

1																				
1	Analysis ID	ïS	A	La	Ce	PN	Fe	Mn	Mg	Ca	Sr	Na	¥	Д	S	As	ō	ш	O stoi.	TOTAL
1	ELF-01_ap_028	90:0	<0.01	<0.09	0.12	<0.06	0.11	0.15	0.03	38.96	<0.04	0.04	<0.03	17.90	0.01	<0.02	1.02	2.25	37.72	98.37
Column   C	ELF-01_ap029	0.01	<0.01	<0.08	<0.09	<0.06	0.11	0.22	0.04	38.82	0.05	0.02	<0.03	18.04	0.01	<0.02	08.0	2.66	37.69	98.46
Column   C	ELF-01_ap030	0.02	<0.01	<0.08	<0.09	0.08	0.04	0.18	<0.01	39.12	<0.03	0.04	<0.03	18.12	<0.01	<0.02	0.52	2.48	38.01	98.62
1	ELF-01_ap_031	0.03	<0.01	<0.09	0.09	<0.0>	0.12	0.21	0.02	38.90	0.04	90.0	<0.03	18.00	0.04	<0.02	99:0	2.67	37.76	98.61
1	ELF-01_ap_032	0.02	<0.01	<0.08	<0.09	90.0>	0.04	90:0	<0.01	39.03	<0.04	0.04	<0.03	18.04	0.01	<0.02	0.74	2.42	37.80	98.21
10.00   0.10   0.00	LB025_ap001	0.05	<0.01	<0.09	<0.09	90.0×	<0.02	0.03	<0.01	38.96	<0.04	<0.02	<0.03	17.90	0.05	0.03	1.68	1.32	37.90	97.93
10.00   10.0	LB025_ap002	0.26	<0.01	0.20	0.32	<0.0>	0.04	0.07	<b>4</b> 0.04	38.02	<0.04 40.04	90.0	<0.03	17.32	0.18	<0.02	4.48	<0.0>	37.28	98.23
10.00   4.00   6.00	LB025_ap003	0.09	<0.01	<0.09	<0.09	0.09	<0.02	0.06	<0.01	38.99	×0.04	0.05	\$0.0	17.88	0.05	<0.02	0.68	1.74	38.03	97.64
10.00   10.0	LB025_ap004	0.08	<0.01	<0.09	0.12	>0.06	<0.02	0.04	<0.01	39.10	<0.04	<0.02	<0.03	17.83	0.04	0.05	1.35	0.8	38.18	97.63
1	LB025_ap005	0.06	40.04 5	<0.09	0.15	0.08	<0.02	0.04	<0.01 5	38.80	<0.04 6	0.03	<0.03	17.82	0.04	0.03	1.23	0.60	38.18	97.06
1	LB025_ap006	0.07	<0.01	<0.08	0.10	×0.06	0.02	<0.03	<0.01	38.93	<0.04	0.03	<0.03	17.94	0.06	0.03	0.95	2.03	37.86	98.01
10   10   10   10   10   10   10   10	LB025_ap007	0.05	<0.01	<0.09	<0.09	>0.06	<0.02	0.03	<0.01	39.08	<0.03	<0.02	\$0.0 \$	18.07	0.04	<0.02	1.39	<del>.</del> .	38.21	98.20
Color   Colo	LB025_ap008	0.10	<0.01	<0.08	<0.09	0.13	<0.02	0.05	<0.01	38.75	<0.04	<0.02	<0.03	17.86	0.04	0.03	1.80	0.82	38.03	97.58
1	LB025_ap009	90:0	<0.01	<0.09	<0.09	>0.06	<0.02	<0.03	<0.01	39.23	<0.04	<0.02	<0.03	17.91	0.04	0.03	1.51	1.38	38.02	98.16
1	LB025_ap010	0.04	<0.01	0.10	<0.09	0.07	<0.02	<0.03	<0.01	38.85	<0.04	<0.02	0.04	17.90	0.04	0.03	1.92	1.13	37.89	98.02
1	LB025_ap011	0.08	<0.01	0.09	0.16	0.07	<0.02	<0.03	<0.01	39.00	<0.04	<0.02	<0.03	17.85	0.05	<0.02	1.01	£.	38.06	97.72
1	LB025_ap012	0.05	<0.01	<0.09	<0.09	<0.0>	<0.02	<0.03	<0.01	39.32	<0.04	<0.02	×0.04	18.01	0.01	<0.02	0.91	1.75	38.11	98.17
1	LB025_ap013	0.05	<0.01	<0.09	<0.09	0.09	0.03	0.18	<0.01	39.11	<0.04	0.02	<0.03	17.95	0.02	0.03	0.86	2.71	37.65	98.70
0.02         4.001         4.006	LB025_ap014	90:0	<0.01	<0.08	<0.1	<0.06	<0.02	0.03	<0.01	39.07	<0.04	<0.02	<b>*</b> 0.0 <b>*</b>	17.90	0.04	0.03	1.35	1.95	37.75	98.19
1	LB025_ap015	0.02	<0.01	<0.09	<0.09	<0.0>	<0.02	90:0	<0.01	39.04	<0.03	<0.02	<0.03	17.94	0.04	<0.02	2.22	1.31	37.82	98.44
1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,	LB025_ap016	0.07	<0.01	<0.08	<0.09	>0.06	<0.02	<0.03	<0.01	39.13	<0.03	<0.02	<0.03	17.92	90.0	0.02	1.21	1.50	38.08	98.00
1	LB025_ap017	0.10	<0.01	<0.09	<0.1	<0.06	<0.02	<0.03	0.01	39.20	<0.04	0.02	<0.03	17.93	0.05	0.03	0.75	0.95	38.47	97.52
1	LB025_ap018	0.09	<0.01	<0.09	<0.09	0.09	<0.02	0.03	<0.01	39.16	<0.04	<0.02	\$0.0 \$	17.93	0.07	<0.02	0.55	0.77	38.58	97.26
1	LB025_ap019	0.06	<0.01	0.14	0.16	>0.06	0.03	0.10	0.02	38.36	<0.03	0.07	<0.03	17.67	0.05	<0.02	3.38	0.44	37.46	97.92
1	LB025_ap020	0.08	<0.01	<0.09	<0.09	<0.0>	<0.02	<0.03	<b>4</b> 0.01	39.08	<0.04	0.02	\$0.0 \$	17.87	90.0	0.03	1.29	0.69	38.29	97.41
0.07         -0.01         -0.09         -0.05	LB025_ap021	90:0	<0.01	<0.09	<0.09	0.07	<0.02	<0.03	<b>4</b> 0.01	39.04	<0.04	<0.02	\$0.0	17.93	0.04	0.04	1.77	0.93	38.08	92.76
10.00   0.010   0.101   0.101   0.101   0.010   0.010   0.010   0.010   0.101   0.101   0.101   0.010   0.01	LB025_ap022	0.07	<0.01	<0.09	<0.09	×0.06	<0.02	<0.03	<0.01	39.21	<0.04	<0.02	<0.03	17.99	0.08	0.02	0.68	1.32	38.40	97.78
1, 10, 10, 10, 10, 10, 10, 10, 10, 10,	LB025_ap023	0.07	40.04 5	0.10	0.19	90.0×	<0.02	0.05	<0.01 5	39.10	<0.04 6.04	0.03	<0.03	17.87	0.06	0.02	0.76	1.37	38.21	97.84
0.10         0.00         0.10         0.00 <th< td=""><td>LB025_ap024</td><td>0.05</td><td>\$0.01</td><td>&lt;0.09</td><td>60.0</td><td>\$0.00 0</td><td>&lt;0.02</td><td>&lt;0.03</td><td>50.01</td><td>39.2/</td><td>&lt;0.03</td><td>&lt;0.02</td><td>&lt;0.03</td><td>76.71</td><td>0.04</td><td>&lt;0.02 0.02</td><td>\$ 5</td><td>7.32</td><td>38.06</td><td>98.39</td></th<>	LB025_ap024	0.05	\$0.01	<0.09	60.0	\$0.00 0	<0.02	<0.03	50.01	39.2/	<0.03	<0.02	<0.03	76.71	0.04	<0.02 0.02	\$ 5	7.32	38.06	98.39
11	LB025_ap025	0.10	r0.0>	v	\$0.08 0.03	0.07	<0.02	<0.03	\$0.01 0.03	39.41	<0.03	<0.02	\$0.0 <del>4</del>	18.05	0.10	0.03	0.46	5.09	38.35	98.67
0.02         0.01         0.02         0.02         0.03         0.04         0.03         0.03         0.03         0.04         0.03         0.03         0.03         0.03         0.04         0.03         0.03         0.03         0.04         0.03         0.03         0.04         0.03         0.03         0.04         0.03         0.03         0.04         0.03         0.04         0.03         0.03         0.04         0.03         0.04         0.03         0.04         0.03         0.04         0.03         0.04         0.03         0.04         0.03         0.04         0.03         0.04         0.03         0.04         0.03         0.04         0.03         0.04         0.03         0.04         0.03         0.04         0.03         0.04         0.03 <th< td=""><td>LB025_ap026</td><td>21.0</td><td>0.0</td><td>١</td><td>11.0</td><td>0.0</td><td>&lt;0.02</td><td>0.08</td><td>0.0 5</td><td>38.79</td><td>\$0.09 \$0.04</td><td>40.0</td><td>\$0.03</td><td>17.81</td><td>0.05</td><td>&lt;0.02</td><td>7.07</td><td>9, 7</td><td>37.85</td><td>97.87</td></th<>	LB025_ap026	21.0	0.0	١	11.0	0.0	<0.02	0.08	0.0 5	38.79	\$0.09 \$0.04	40.0	\$0.03	17.81	0.05	<0.02	7.07	9, 7	37.85	97.87
1	LB025_ap02/	80.0	0.0	60.07	5 6	×0.05	<0.02	0.00	0.0	39.07	+ 0.04 + 0.05	0.02	50:00	17.80	0.09	0.02	<u> </u>	± 0	38.14	90.04
0.17         c.0.01         0.19         0.14         0.01         0.10         c.0.01         0.02         c.0.02         c.0.04         0.02         c.0.02         c.0.04         0.02         c.0.04         1.80         0.02         0.04         0.02         c.0.04         1.80         0.04         0.05         0.04         0.05         0.04         0.05         0.04         0.05         0.04         0.05         0.04         0.02         c.0.04         0.02	LB025 ap 029	0.07	<0.01	<0.09	0.22	0.11	<0.02	0.03	<0.04 0.04	38.82	0.04	40.0	<0.03	17.82	0.03	<0.02	0.98	1.23	38.01	97.42
0.10         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.02         0.02         0.02         0.02         0.01         0.02         0.02         0.02         0.02         0.01         0.02 <th< td=""><td>LB025_ap_030</td><td>0.17</td><td>&lt;0.01</td><td>0.10</td><td>0.14</td><td>0.08</td><td>0.05</td><td>0.10</td><td>&lt;0.01</td><td>38.23</td><td>&lt;0.04</td><td>0.08</td><td>&lt;0.03</td><td>17.43</td><td>0.19</td><td>&lt;0.02</td><td>4.13</td><td>0.27</td><td>37.35</td><td>98.32</td></th<>	LB025_ap_030	0.17	<0.01	0.10	0.14	0.08	0.05	0.10	<0.01	38.23	<0.04	0.08	<0.03	17.43	0.19	<0.02	4.13	0.27	37.35	98.32
0.06         c.0.01         c.0.02         c.0.03         c.0.01         c.0.02         c.0.04         c.0.02         c.0.04         c.0.01         c.0.04         c.0.02         c.0.04         c.0.01         c.0.04         c.0.02         c.0.04         c.0.02         c.0.04         c.0.02         c.0.04         c.0.02         c.0.04         c.0.02         c.0.04         c.0.01         c.0.02         c.0.02         c.0.01         c.0.02         c.0.02         c.0.01         c.0.02         c.0.02         c.0.03         c.0.04         c.0.03         c.0.03         c.0.01         c.0.03         c.0.04         c.0.03         c.0.03         c.0.01         c.0.03         c.0.03         c.0.03         c.0.03         c.0.04         c.0.03 <td>LB025_ap031</td> <td>0.10</td> <td>&lt;0.01</td> <td>0.13</td> <td>&lt;0.09</td> <td>0.12</td> <td>&lt;0.02</td> <td>&lt;0.03</td> <td>&lt;0.01</td> <td>39.17</td> <td>0.05</td> <td>&lt;0.02</td> <td>&lt;0.04</td> <td>18.00</td> <td>90.0</td> <td>0.03</td> <td>0.57</td> <td>2.02</td> <td>38.19</td> <td>98.45</td>	LB025_ap031	0.10	<0.01	0.13	<0.09	0.12	<0.02	<0.03	<0.01	39.17	0.05	<0.02	<0.04	18.00	90.0	0.03	0.57	2.02	38.19	98.45
0.07	LB025_ap032	0.06	<0.01	<0.09	<0.09	0.08	<0.02	<0.03	<0.01	39.23	<0.04	<0.02	<0.04	18.02	0.04	0.03	1.20	1.92	38.01	98.58
0.11 < 0.01 < 0.008	LB025_ap033	0.07	<0.01	0.12	0.17	0.09	<0.02	<0.03	<0.01	39.06	<0.03	<0.02	<b>4</b> 0.0 <b>x</b>	17.84	90.0	<0.02	0.70	1.36	38.17	97.64
021 < -0.01 < -0.02	LB025_ap034	0.11	<0.01	<0.08	0.18	<0.0>	<0.02	0.03	<0.01	38.99	<0.03	0.02	<0.03	17.83	0.05	<0.02	1.22	0.77	38.27	97.47
0.08	LB025_ap035	0.21	<0.01	<0.09	0.12	>0.06	0.05	0.11	<0.01	38.07	<0.04	0.07	<0.03	17.34	0.22	<0.02	5.47	0.15	36.97	98.77
0.12 c.0.01 0.16 0.28 0.15 0.07 0.21 c.0.01 38.11 c.0.03 0.14 c.0.03 1762 0.09 c.0.02 3.91 0.60 37.33 0.06 0.05 c.0.01 0.14 0.29 0.18 0.03 0.18 c.0.01 38.34 c.0.04 0.06 c.0.03 17.72 0.07 0.02 3.22 1.08 37.25 0.09 0.04 0.05 c.0.04 0.04 0.05 c.0.04 0.05 c.0.04 0.05 c.0.04 0.05 c.0.04 0.05 c.0.04 0.05 c.0.05 c.0.04 0.05 c.0.04 0.04 c.0.04 0.05 c.0.05 c.0.04 0.05 c.0.04 0.05 c.0.05 c.0.05 c.0.04 0.05 c.0.05 c.0.05 c.0.04 0.05 c.0.05 c.0.04 0.05 c.0.05 c.0.05 c.0.04 0.05 c.0.05 c.0.05 c.0.05 c.0.05 c.0.04 0.05 c.0.05	NAF-01_ap_001	0.08	<0.01	<0.08	0.16	<0.0>	<0.02	<0.03	<0.01	38.91	<0.04	0.02	<b>*</b> 0.0 <b>*</b>	17.83	0.01	90.0	0.95	1.35	37.96	97.34
0.05 <0.01 0.14 0.29 0.18 0.03 0.18 <0.01 38.01 <0.04 0.16 <0.03 17.72 0.07 0.02 3.32 1.08 37.25   0.16 <0.01 0.09 0.35 0.24 0.05 <0.03 <0.01 38.38 <0.04 0.06 <0.03 17.72 0.07 0.04 0.02 0.34 1.77 37.72   0.18 <0.01 <0.09 0.33 0.12 0.12 0.05 0.04 0.01 38.43 <0.03 0.04 0.04 0.03 0.04 0.02 0.04 1.04 37.72   0.18 <0.01 <0.09 0.11 0.22 0.15 <0.02 0.06 0.14 <0.01 38.77 0.05 0.02 0.03 17.01 0.08 <0.02 1.39 1.27 38.11   0.18 <0.01 0.09 0.13 0.07 <0.02 0.07 <0.01 38.77 0.05 0.04 0.04 17.89 <0.01 <0.04 17.89 <0.01 <0.02 0.02 1.01 1.84 38.00   0.05 <0.01 <0.09 0.11 0.07 <0.02 0.07 <0.01 38.88 <0.04 0.03 <0.03 17.81 0.02 <0.02 0.07 1.39 1.37 1.31   0.05 <0.01 0.09 0.11 0.07 <0.02 0.07 <0.01 38.88 <0.04 0.03 <0.03 18.02 <0.01 0.03 11.90 14.4 38.05   0.01 0.00 0.01 0.01 0.07 <0.02 0.07 <0.01 38.88 <0.04 0.03 <0.03 18.02 <0.01 0.03 11.90 14.4 38.05   0.01 0.00 0.01 0.07 <0.02 0.07 <0.01 38.88 <0.04 0.03 <0.03 18.02 <0.01 0.03 13.0 14.4 38.05   0.01 0.00 0.01 0.01 0.07 <0.02 0.07 <0.01 38.88 <0.04 0.03 <0.03 18.02 <0.01 0.03 13.0 14.4 38.05   0.01 0.00 0.01 0.01 0.01 0.01 0.01 0.	NAF-01_ap_002	0.12	<0.01	0.16	0.28	0.15	0.07	0.21	<0.01	38.11	<0.03	0.11	<0.03	17.62	0.09	<0.02	3.91	0.60	37.33	98.77
0.16 <0.01	NAF-01_ap003	0.05	<0.01	0.14	0.29	0.18	0.03	0.18	<0.01	38.01	<0.04	0.16	<0.03	17.72	0.07	0.02	3.32	9. 1	37.25	98.50
0.08 0.01 0.13 0.23 0.12 0.05 0.06 0.01 38.43 0.003 0.004 17.74 0.003 0.004 2.71 1.04 37.47 1.04 0.14 0.14 0.14 0.14 0.14 0.10 0.05 0.00 0.04 0.17 0.00 0.01 0.10 0.14 0.10 0.05 0.00 0.00 0.01 0.00 0.13 0.07 0.00 0.01 38.77 0.05 0.04 0.04 0.04 0.04 0.00 0.03 17.83 0.02 0.002 1.39 1.27 38.11 0.05 0.01 0.09 0.13 0.07 0.00 0.07 0.01 38.06 0.04 0.04 0.04 0.04 17.89 0.01 0.02 0.02 1.01 1.84 38.00 0.05 0.01 0.09 0.11 0.07 0.02 0.07 0.01 38.06 0.04 0.04 0.04 17.81 0.02 0.02 3.53 0.79 37.31 0.05 0.01 0.09 0.11 0.07 0.02 0.07 0.01 38.86 0.04 0.03 0.03 18.02 0.01 0.03 1.30 1.44 38.05	NAF-01_ap_004	0.16	L0.0>		0.35	0.24	0.05	<0.03	10.0>	38.38	<0.04	0.06	<0.03	0//L	0.04	0.02	\$ i	).r	31.72	97.12
0.18 <0.011 <0.019 0.43 0.20 0.00 0.14 <0.011 36.34 0.014 0.111 <0.013 17.01 0.008 <0.012 4.01 0.003 35.91 0.15 0.015 0.015 0.010 0.14 <0.011 0.003 0.013 0.012 0.015 0.015 0.012 0.017 0.005 0.012 0.017 0.005 0.014 0.	NAF-01_ap_005	0.08	0.0	,	0.23	0.12	0.05	0.06	6 6	38.43	<0.03	0.03	\$ \$ \$	17.74	0.03	0.0 d	2.71	4. S	37.47	98.17
0.16 <0.01	NAF-01_ap_006	0.18	P0.05	\$0.08 0.44	0.43	0.20	0.06	0.14	0.0v	36.54	<0.04 0.04	11.0	<0.03	17.01	80.0	<0.02	10.4	0.65	35.91	95.37
0.05 - 0.01 - 0.03 - 0.15 - 0.07 - 0.02 - 0.07 - 0.04 - 0.04 - 0.04 - 0.04 - 0.04 - 0.04 - 0.04 - 0.04 - 0.04 - 0.04 - 0.04 - 0.04 - 0.05 - 0.01 - 0.02 - 0.02 - 0.05 - 0.04 - 0.03 - 0.04 - 0.03 - 0.04 - 0.03 - 0.04 - 0.03 - 0.04 - 0.03 - 0.04 - 0.03 - 0.05 - 0.04 - 0.03 - 0.03 - 0.04 - 0.03 - 0.04 - 0.03 - 0.04 - 0.03 - 0.04 - 0.03 - 0.03 - 0.04 - 0.03 - 0.04 - 0.03 - 0.03 - 0.04 - 0.03 - 0.03 - 0.04 - 0.03 - 0.03 - 0.04 - 0.03 - 0.03 - 0.04 - 0.03 - 0.03 - 0.04 - 0.03 - 0.03 - 0.04 - 0.03 - 0.03 - 0.04 - 0.03 - 0.	NAF-01_ap_00/	9 6	0.0 6	- 6	0.22	0.13	×0.02	\$0.03 0.03	0.0	30.06	0.00	70.0	50.0	17.93	20.02	<0.02 70.03	S. 5	15.1	200.	90.2
0.00 < 0.01	NAF-01 ap 009	0.05	0.00	60.0	2.0	0.07	0.07	0.0	0.07	38.00	×0.04	0.0	\$ 50 5 0 5 0 5 0	17.81	0.07	×0.02 ×0.02	3.53	± 62 0	37.31	90.39
all alaments in urt % (FMDA)	NAF-01 ap 010	90.0	0.0	60 0	0 11	0.07	<0.00	0.07	40 0v	38.86	40.0	0.03	\$ 00 00 00 00 00	18.02	<0.01	0.03	1.30	1 44	38.05	98 12
	*	II alam	ontei	" ray 0/	_	( )	!	:		i i	:		!	!		!	!	:	!	

Appendix C: Eastern Sunda arc apatite trace element chemistry (EMPA)

								•							•	•	•	•	
Analysis ID	Si	Al	La	Ce	PΝ	Fe	Mn	Mg	Ca	Sr	Na	¥	Д	S	As	Ö	F	O stoi.	TOTAL
NAF-01_ap_011	0.03	<0.01	<0.08	0.10	>0.06	<0.02	0.04	<0.01	39.30	<0.04	<0.02	<0.03	18.05	0.01	0.04	1.09	2.07	38.00	98.73
NAF-01_ap_012	0.07	<0.01	<0.09	0.13	<0.06	0.02	0.08	<0.01	38.41	<0.04	<0.02	×0.04	17.72	0.04	0.04	2.88	69.0	37.49	97.57
NAF-01_ap013	0.08	<0.01	<0.08	0.22	>0.06	<0.02	0.05	<0.01	38.94	0.07	0.03	<0.03	17.82	0.02	<0.02	1.27	2.20	37.57	98.27
NAF-01_ap014	0.12	<0.01	<0.09	0.23	0.16	<0.02	0.09	<0.01	38.74	0.04	0.04	<0.03	17.81	0.01	0.04	1.33	1.90	37.66	98.16
	0.07	<0.01	0.13	0.17	0.15	<0.02	0.10	<0.01	38.61	0.05	90.0	<0.03	17.88	0.02	<0.02	1.71	1.85	37.59	98.39
NAF-01_ap016	0.11	<0.01	0.09	0.16	<0.07	<0.02	0.05	<0.01	39.23	<0.04	0.02	<0.03	17.99	0.02	0.02	0.92	2.36	37.94	98.90
NAF-01_ap017	0.02	<0.01	<0.09	0.18	<0.07	0.04	90.0	<0.01	38.98	<0.04	0.04	<0.03	17.93	0.01	<0.02	1.08	1.97	37.81	98.15
NAF-01_ap018	0.08	<0.01	<0.09	0.17	0.16	0.04	0.10	<0.01	38.81	<0.04	0.05	<0.03	17.90	0.01	<0.02	1.39	1.87	37.74	98.33
NAF-01_ap_019	0.09	<0.01	<0.09	0.23	<0.0>	<0.02	<0.03	<0.01	38.89	<0.04	0.04	<0.03	17.96	0.02	0.02	0.75	2.73	37.60	98.32
	0.07	<0.01	<0.08	0.19	0.09	0.02	90.0	<0.01	39.00	0.04	0.03	<0.03	17.85	0.01	0.03	1.15	2.01	37.71	98.25
NAF-01_ap_021	0.11	<0.01	0.14	0.26	0.12	<0.02	0.05	<0.01	38.36	<0.04	<0.02	<0.03	17.70	0.01	0.02	2.72	0.25	37.72	97.45
NAF-01_ap_022	0.12	<0.01	<0.09	0.28	0.15	0.07	0.07	<0.01	38.18	0.05	0.07	40.0×	17.57	60.0	<0.02	3.95	0.39	37.31	98.31
NAF-01_ap_023	0.07	<0.01	0.18	0.22	0.13	0.04	0.05	<0.01	38.51	<0.04	<0.02	<0.03	17.67	0.02	0.05	2.66	69.0	37.55	97.85
NAF-01_ap_024	0.08	<0.01	0.11	0.12	0.09	<0.02	<0.03	<0.01	39.07	<0.04	<0.02	<0.02	17.82	0.01	<0.02	06:0	1.1	38.12	97.43
NAF-01_ap_025	0.12	<0.01	<0.09	0:30	0.14	0.04	0.19	<0.01	38.13	<0.04	0.09	<0.03	17.55	0.07	<0.02	3.57	99.0	37.22	98.07
NAF-01_ap_026	0.00	0.01	<0.09	0.22	<0.0>	<0.02	0.05	<0.01	38.76	0.03	0.02	<0.0>	17.71	<0.01	0.04	1.86	0.70	37.80	97.27
NAF-01_ap_027	0.10	<0.01	0.15	0.22	0.15	90.0	0.15	0.01	37.96	0.04	0.11	40:04	17.56	0.10	<0.02	3.84	0.53	37.20	98.16
NAF-01_ap_028	0.05	<0.01	<0.08	<0.09	<0.06	0.03	0.05	<0.01	39.31	<0.04	0.03	<0.03	18.15	<0.01	<0.02	0.71	1.82	38.31	98.44
NAF-01_ap_029	90.0	<0.01	0.11	<0.09	0.12	0.02	0.04	<0.01	38.79	<0.04	0.03	<0.03	17.87	0.02	0.03	1.53	1.27	37.87	97.75
NAF-01_ap_030	0.04	<0.01	<0.09	0.15	<0.06	60.0	0.20	0.02	38.23	<0.04	0.13	<0.04	17.62	0.11	<0.02	4.23	0.33	37.32	98.46
NAF-01_ap031	0.04	0.01	0.10	0.20	0.08	0.02	0.09	<0.01	39.02	0.04	0.04	<0.03	17.92	0.03	<0.02	1.80	1.68	37.84	98.96
NAF-01_ap_032	90.0	×0.01	<0.09	0.24	0.14	0.05	0.09	×0.01	38.05	<0.04	0.08	<0.03	17.78	0.02	<0.02	3.57	0.72	37.29	98.10
NAF-01_ap_033	0.08	40.04 5	<0.08	<0.09	0.14	0.02	0.07	40.01 5	39.15	<0.04	<0.02	\$0:05 \$0:05	18.13	<0.01	0.03	0.46	2.05	38.24	98.37
NAF-01_ap034	0.11	0.0	0.13	0.28	00	0.03	0.06	10.0>	38.12	0.00	0.08	<0.03	1.7	60.0	<0.02	9. S	0.75	37.34	98.66
NAF-01_ap_035	II.0	0.00	81.0	0.29	62.0	0.00	21.0	0.02	31.12	40.04	CI.O	50:03	17.09	0.03	<0.02 0.03	5. 56 5. 56	0.70	37.09	45.79
NAF-01_ap_036	0.00	0.0	80.07	0.00	- 0	20.02	0.07	0.0	30.47	40.00	9.0	50.00	18.09	10.07	50.00	\$ 5	2 87	37.64	90.05
NAE-03 ap 002	0.00	0.0	80.0	5.0	20.0>	0.00		5 0	30.16	<0.03	500	20:05	80.81	0.00	\$0.02 \$0.02	0.65	3.45	37.52	99 12
NAF-03 ap 003	0.03	<0.01	60:0>	<0.09	0.00	0.06	0.14	0.07	39.12	<0.03	0.05	<0.03 <0.03	18.09	0.03	<0.02	0.77	3.04	37.71	99.13
NAF-03 ap 004	0.11	<0.01	0.10	0.17	<0.0>	<0.02	<0.03	<0.01	38.79	<0.03	0.04	40.0×	17.71	0.02	<0.02	1.55	1.26	37.78	97.59
NAF-03_ap_005	0.07	<0.01	<0.09	<0.09	0.08	0.04	0.19	<0.01	38.74	<0.03	0.10	<0.03	17.98	0.15	<0.02	1.15	2.61	37.75	98.86
NAF-03_ap_006	0.05	<0.01	<0.08	0.09	<0.06	0.03	90.0	<0.01	39.24	0.04	0.04	<0.03	18.05	0.05	<0.02	0.62	2.77	37.87	98.90
NAF-03_ap_007	0.03	<0.01	0.10	<0.09	>0.06	0.07	0.11	<0.01	38.97	<0.03	0.04	<0.03	18.03	<0.01	<0.02	1.28	2.17	37.79	98.58
NAF-03_ap_008	0.02	<0.01	<0.09	<0.1	0.08	0.04	0.08	<0.01	38.89	<0.04	0.03	<0.03	17.97	0.01	<0.02	<del>2</del> .	2.19	37.50	98.65
NAF-03_ap009	0.03	<0.01	<0.09	<0.09	<0.06	0.04	0.07	<0.01	38.94	<0.03	0.03	<0.03	17.88	0.04	0.02	1.99	1.54	37.71	98.29
NAF-03_ap010	0.03	<0.01	<0.09	0.11	>0.06	0.05	0.11	<0.01	38.66	0.04	90.0	<0.0×	17.96	0.01	<0.02	2.33	2.10	37.37	98.85
NAF-03_ap011	0.02	<0.01	<0.09	<0.09	>0.06	0.08	0.21	<0.01	39.16	0.04	0.05	<0.03	18.05	0.02	0.02	0.79	2.70	37.83	98.99
NAF-03_ap012	0.03	×0.01	<0.09	<0.09	>0.06	<0.02	<0.03	×0.01	39.35	<0.04	<0.02	<0.03	18.11	<0.01	<0.02	0.08	3.52	37.64	98.73
NAF-03_ap013	0.04	<0.01	<0.09	<0.09	>0.06	<0.02	0.05	<0.01	39.44	<0.04	<0.02	<0.03	18.15	<0.01	<0.02	0.63	2.82	37.97	99.10
NAF-03_ap014	0.03	40.04 5	<0.08	0.10	<0.07	0.10	0.03	<0.01 5	39.10	<0.04	0.02	<0.03	18.10	0.01	<0.02	1.27	2.67	37.72	99.15
NAF-03_ap_015	0.00	0.0	00.00	60.07	80.0	00:00	5.0	0.0	30.00	\$0.0 V	0.00	50.00	18.08	0.0	20.0	0.30	3.06	37.80	00.00
NAE-03 ap 017	20.0	0.0	00.05 00.08	60.05	90.00	20.02	0.25	0.07	39.07	0.00	20.0	50.05	90.81	0.00	×0.02	0.95	273	37.76	98.97
NAF-03 ap 018	0.04	0.01	<0.09	0.13	<0.06	0.06	<0.03	<0.01	39.26	<0.04	0.03	<0.03	18.06	0.01	<0.02	0.75	2.98	37.71	99.04
NAF-03 ap 019	0.03	<0.01	<0.09	<0.09	0.08	0.03	0.09	<0.01	39.22	<0.04	0.02	40.0×	17.99	0.01	<0.02	£.	2.39	37.70	98.89
NAF-03_ap_020	90.0	0.03	<0.08	0.09	<0.06	90.0	0.19	0.02	39.05	<0.04	0.03	0.04	17.98	<0.01	<0.02	1.01	2.72	37.64	98.91
NAF-03_ap_021	0.04	<0.01	<0.08	<0.09	<0.06	0.05	0.08	0.01	38.93	<0.04	0.02	<0.03	17.96	0.02	<0.02	1.64	2.51	37.48	98.74
NAF-03_ap_022	0.04	<0.01	<0.09	<0.09	0.08	0.03	0.12	<0.01	39.11	<0.04	0.03	<0.03	18.18	0.02	<0.02	0:30	3.24	37.82	98.98
NAF-03_ap023	0.05	<0.01	0.13	<0.09	0.07	<0.02	<0.03	<0.01	39.42	0.05	<0.02	<0.04	18.14	<0.01	<0.02	0.68	2.74	37.99	99.28
NAF-03_ap_024	0.07	<0.01	0.11	0.16	<0.07	0.02	0.03	<0.01	39.27	0.05	0.03	<0.04	18.01	0.03	<0.02	09:0	2.78	37.84	98.99
*a	*all elements in wt. %	ents ir	ı wt. %	(EMP	(A)														

Appendix C: Eastern Sunda arc apatite trace element chemistry (EMPA)

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Analysis ID	·S	₹	La	Ce	ρN	Fe	Mn		g	Š	Na	¥	а.	S	As	<u></u>		O stoi.	TOTAL
NAF-03_ap025	90.0	<0.01	<0.09	<0.09	0.07	0.02	<0.03	<0.01	39.37	0.04	<0.02	<0.03	18.11	0.02	<0.02	0.59	2.83	37.93	99.04
NAF-03_ap026	0.02	<0.01	<0.08	<0.09	0.08	0.03	0.14	<0.01	38.87	0.05	0.05	<0.04	18.01	0.03	<0.02	1.26	2.61	37.57	98.72
NAF-03_ap_027	0.03	<0.01	<0.08	<0.09	0.09	0.15	0.33	0.04	38.57	<b>4</b> 0.0 <b>4</b>	0.10	<0.03	17.98	0.03	<0.02	0.98	3.21	37.38	98.90
NAF-03_ap028	0.04	<0.01	<0.09	<0.09	<0.0>	0.03	0.12	<0.01	38.94	0.04	0.04	<0.03	17.88	0.02	<0.02	1.74	2.21	37.46	98.51
NAF-03_ap029	0.07	<0.01	<0.09	<0.09	<0.0>	0.03	0.08	<0.01	39.30	<0.03	<0.02	<0.03	18.03	0.01	0.02	99.0	3.06	37.67	98.93
NAF-03_ap030	0.06	40.01	<0.09	0.10	<0.06	0.02	<0.03	<0.01	39.16	9.0	<0.02	<0.04	18.12	0.02	<0.02	0.52	2.81	37.88	98.74
NAF-02_ap001	20.0	0.00	60.07	50.03	0.0	0.30	\$ 0.0	0.0	30.04	5 6	0.0	40.0	18.00	5 6	20.02	5 5	2.23	37.43	90.00
	50.07	0.0	80.0	. 6	<0.0	0.46	48	0.10	38.35	8.6	0.0	+ 0:07 • 0:09	9. 6	5 6	×0.02	2 2	20.2	37.52	98.76
NAF-02 ap 004	<0.01	<0.01	<0.08	<0.09	<0.07	0.43	0.65	0.09	38.32	<b>0.0</b>	90.0	<0.03	18.01	0.02	<0.02	1.22	2.48	37.69	98.97
NAF-02_ap005	<0.01	<0.01	<0.09	<0.09	<0.06	0.26	0.48	0.05	38.68	0.05	0.04	<0.03	18.11	0.01	<0.02	1.06	2.94	37.65	99.33
NAF-02_ap_006	<0.01	<0.01	<0.08	<0.1	90.0	0.24	0.47	0.03	38.62	0.07	90.0	<0.03	18.12	0.02	<0.02	1.03	3.24	37.54	99.50
NAF-02_ap_007	0.03	<0.01	<0.09	<0.09	<0.06	0.48	0.70	0.11	37.84	90.0	0.02	<0.04	17.91	0.01	<0.02	1.49	2.53	37.34	98.55
NAF-02_ap_008	0.01	<0.01	<0.09	<0.09	0.07	0.33	0.50	0.05	38.37	×0.04	90.0	<0.03	18.09	0.02	<0.02	1.32	2.56	37.66	99.04
NAF-02_ap_009	0.02	<0.01	<0.09	0.10	0.07	0.20	0.39	0.03	38.52	<0.04	0.07	<0.04	18.06	0.01	<0.02	1.22	2.90	37.50	99.11
NAF-02_ap010	0.02	<0.01	<0.09	<0.1	<0.06	0.47	0.71	0.09	38.12	<0.03	90.0	<0.04	18.00	<0.01	<0.02	1.20	2.44	37.61	98.72
NAF-02_ap011	0.07	0.03		<0.09	>0.06	0.50	1.06	0.09	37.66	<0.04	0.09	<0.04	17.88	0.10	<0.02	1.45	2.73	37.45	99.10
NAF-02_ap012	0.02	<0.01	<0.09	<0.09	<0.0>	0.48	0.67	0.09	37.95	×0.04	0.08	<0.03	17.97	0.02	<0.02	1.49	2.67	37.38	98.82
NAF-02_ap013	<0.01	<0.01	<0.09	<0.1	0.08	0.27	0.47	0.05	38.62	<0.04	0.07	<0.03	18.12	0.02	<0.02	0.94	3.02	37.65	99.29
NAF-02_ap014	<0.01	<0.01	<0.09	<0.09	0.08	0.40	0.64	0.07	38.04	×0.04	0.02	<0.04	18.08	0.01	<0.02	1.18	2.85	37.47	98.88
NAF-02_ap015	0.01	<0.01	<0.08	<0.09	>0.06	0.41	0.59	0.07	38.32	0.02	0.02	<0.04	18.01	<0.01	<0.02	1.18	2.85	37.50	90.66
NAF-02_ap016	0.01	<0.01	<0.09	<0.09	<0.07	0.49	0.72	0.10	38.02	0.0	90.0	<0.03	18.05	0.01	<0.02	<del>7</del> .	2.58	37.53	99.16
NAF-02_ap_017	0.04	60.01	40.09 60.09	40.1	40.06 50.06	0.06	0.19	<0.01	39.52	×0.03	<0.02	<0.03	18.14	40.07 50.04	<0.02 0.02	0.49	3.07	37.88	99.36
NAF-02_ap018	1.0.0	0.0	×0.08	\$0.09 \$0.09	V0.0V	0.35	0.30	0.00	38.12	90:0	90.0	×0.03	18.07	10.05	×0.02	ر ال	7.67	37.53	90.78
NAF-02_ap_019	0.02	10.07		00.00	0.00	0.30	0.37	0.00	37.04	\$ 5	90.0	50.05	10.00	0.02	20.02	5 . t	2.73	37.58	90.90
NAF-02 ap 021	0.02	<0.07		60:0>	0.08	0.13	0.38	0.03	39.06	0.05	0.03	<0.03	18.18	<0.07	0.02	0.38	3.02	37.92	99.31
NAF-02 ap 022	0.01	<0.01	0.08	<0.0>	>0.06	0.29	0.43	0.05	38.59	0.00	0.07	<0.03	18.01	<0.01	<0.02	1.27	2.56	37.61	98.97
NAF-02_ap023	<0.01	<0.01	0.09	<0.09	0.07	0.40	0.63	0.07	38.29	<0.03	0.07	<0.04	18.10	0.01	<0.02	1.08	2.87	37.63	99.32
NAF-02_ap_024	0.01	<0.01	<0.09	<0.09	0.11	0.23	0.45	0.03	38.78	0.05	0.04	<0.04	17.99	<0.01	<0.02	0.84	3.43	37.35	99.33
NAF-02_ap025	0.01	<0.01	<0.09	<0.09	>0.06	0.29	0.50	90.0	38.55	0.04	0.05	<0.03	18.26	0.01	<0.02	1.09	2.89	37.84	99.60
PCT-02_ap001	0.10	<0.01	<0.08	0.10	0.09	0.30	0.16	0.05	38.53	×0.04	0.03	<0.03	18.03	<0.01	<0.02	1.02	1.88	37.97	98.25
PCT-02_ap002	0.10	<0.01	<0.09	0.12	0.07	0.30	0.17	90:0	38.36	<b>^</b> 0.04	0.04	0.04	18.00	<0.01	<0.02	0.99	1.85	37.91	98.02
PCT-02_ap003	0.10	<0.01	<0.08	0.24	0.08	0.31	0.16	0.05	38.48	\$0:0 <del>4</del>	90.0	<0.04	17.93	0.05	<0.02	9:	1.87	37.95	98.29
PCI-02_ap004	0.10	\$0.07 50.07	<0.09	0.16	0.12	0.29	81.0	0.06	38.38	0.07	40.0	<0.04 0.04	18.07	C0.07	<0.02	<u> </u>	8 1	37.99	98.37
PCT-02_ap_005	0.10	10.01	\$0.08	0.05	9 . 0	0.30	0.15	0.05	38.33	\$ 0.0 \$ 8	0.03	<0.03	18.05	0.01	×0.02	9. 5	2.10	37.98	98.03
PCT-02 ap 007	0.08	<0.01	<0.08	<0.09	<0.06	0.33	0.14	0.06	38.64	0.05	0.03	<0.03	17.94	<0.01	<0.02	1.03	2.04	37.81	98.14
PCT-02_ap_008	0.07	<0.01	<0.09	0.13	0.10	0.30	0.15	0.04	38.59	×0.04	0.07	<0.03	18.02	0.01	<0.02	1.01	1.96	37.93	98.38
PCT-02_ap_009	0.10	<0.01	<0.08	0.11	0.08	0.30	0.12	0.07	38.25	×0.04	0.04	<0.04	17.99	<0.01	<0.02	1.03	1.89	37.82	97.79
PCT-02_ap010	0.08	<0.01	<0.09	0.13	0.08	0.31	0.16	0.05	38.67	×0.04	0.04	<0.03	18.11	<0.01	<0.02	1.02	1.85	38.13	98.61
PCT-02_ap011	0.10	<0.01	<0.09	0.19	0.12	0.33	0.19	0.05	38.45	<0.03	0.02	<0.03	17.95	<0.01	<0.02	0.97	1.97	37.85	98.24
PCT-02_ap012	0.10	<0.01	<0.08	<0.09	0.14	0.31	0.13	0.05	38.39	<0.04	90.0	<0.04	17.89	0.01	<0.02	0.99	1.87	37.75	97.70
PCT-02_ap_013	0.10	<0.01	<0.09	0.13	0.09	0.30	0.15	90:0	38.45	<0.03	0.04	<0.04	18.03	0.01	<0.02	0.99	1.87	37.97	98.19
PCI-02_ap014	0.13	0.0	\$0.08 \$0.08	51.0	0.10	0.34	0.16	0.05	38.36	90:0	0.06	×0.03	17.98	0.00	<0.02 0.03	20.7	F 9.	37.89	98.19
PCT-02 ap 016	0.03	0.00	00:00	60.02	0.00	0.0	0.0	90.0	38.44	50.04	0.03	50.03	17.87	0.0	20:02	5 5	 G	37.76	0.70
PCT-02 ap 017	0.07	<0.0	0.05	×0.1	0.11	0.32	0.15	0.00	38.29	90	0.00	×0.04	18.03	40.07 10.07	<0.02	1.03	2 6	37.84	97.89
PCT-02 ap 018	0.10	<0.01	<0.09	0.12	0.08	0.31	0.16	0.05	38.50	0.05	0.08	<0.03	18.02	<0.01	<0.02	0.87	2.55	37.72	98.59
PCT-02_ap_019	0.09	<0.01	<0.09	<0.09	0.07	0.32	0.14	0.05	38.52	90:0	0.02	<0.04	17.96	0.02	<0.02	1.01	1.88	37.88	98.03
*al	*all elements in wt. %	ents in	1 wt. %	J	(A)														
				•															

Appendix C: Eastern Sunda arc apatite trace element chemistry (EMPA)

1.   1.   1.   1.   1.   1.   1.   1.																	-	_	_	
	Analysis ID	Si	A	La	Ce	PN	Fe	Mn		Ca	Sr	Na	¥	۵	S	As		ш	O stoi.	TOTAL
1, 10, 10, 10, 10, 10, 10, 10, 10, 10,	PCT-02_ap020	0.10	<0.01	<0.09	<0.09	0.12	0.32	0.13	0.05	38.48	<0.04	0.02	<0.04	17.97	<0.01	<0.02	1.01	1.81	37.88	97.89
610         611         611         611         611         612 <td>PCT-02_ap_021</td> <td>0.09</td> <td>&lt;0.01</td> <td>&lt;0.08</td> <td>&lt;0.09</td> <td>0.10</td> <td>0.32</td> <td>0.18</td> <td>0.04</td> <td>38.59</td> <td>&lt;0.04</td> <td>0.05</td> <td>&lt;0.04</td> <td>18.05</td> <td>&lt;0.01</td> <td>&lt;0.02</td> <td>96:0</td> <td>1.90</td> <td>38.03</td> <td>98.33</td>	PCT-02_ap_021	0.09	<0.01	<0.08	<0.09	0.10	0.32	0.18	0.04	38.59	<0.04	0.05	<0.04	18.05	<0.01	<0.02	96:0	1.90	38.03	98.33
0.10         4.01         4.01         0.10         0.11         0.12 <th< td=""><td>PCT-02_ap022</td><td>0.09</td><td>&lt;0.01</td><td>&lt;0.09</td><td>&lt;0.09</td><td>&gt;0.06</td><td>0.30</td><td>0.13</td><td>0.04</td><td>38.25</td><td><b>40.0</b></td><td>0.07</td><td>&lt;0.03</td><td>18.07</td><td>0.01</td><td>&lt;0.02</td><td>1.02</td><td>1.86</td><td>37.91</td><td>97.74</td></th<>	PCT-02_ap022	0.09	<0.01	<0.09	<0.09	>0.06	0.30	0.13	0.04	38.25	<b>40.0</b>	0.07	<0.03	18.07	0.01	<0.02	1.02	1.86	37.91	97.74
401         401         602         612         613 <td></td> <td>0.10</td> <td>&lt;0.01</td> <td>&lt;0.08</td> <td>0.10</td> <td>0.11</td> <td>0.32</td> <td>0.16</td> <td>0.04</td> <td>38.47</td> <td>90:0</td> <td>0.05</td> <td>&lt;0.03</td> <td>18.08</td> <td>0.01</td> <td>&lt;0.02</td> <td>1.01</td> <td>1.77</td> <td>38.11</td> <td>98.39</td>		0.10	<0.01	<0.08	0.10	0.11	0.32	0.16	0.04	38.47	90:0	0.05	<0.03	18.08	0.01	<0.02	1.01	1.77	38.11	98.39
CLAS ALONA         CLAS AL		0.13	<0.01	<0.0>	0.12	60.0	0.29	0.15	90.0	38.24	40.0	0.05	×0.04	17.94	<0.01	<0.02	1.03	1.84	37.79	97.72
1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,	PCT-02_ap025	0.14	<0.01	0.09	0.17	0.14	0.33	0.11	0.05	38.38	0.05	0.05	<0.04	18.03	<0.01	<0.02	0.94	2.05	37.96	98.49
1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,	PCT-02_ap_026	0.12	<0.01	0.10	0.16	0.14	0.33	0.18	0.04	38.31	<0.03	0.05	40.04	18.00	<0.01	<0.02	0.98	1.85	37.94	98.20
1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,		0.13	<0.01	<0.08	<0.09	0.11	0.31	0.19	0.05	38.18	<0.03	0.05	<0.03	17.96	0.01	<0.02	1.01	1.68	37.88	97.57
0.0                 0.0                 0.0                 0.0                 0.0                 0.0                0.0                  0.0                  0.0                  0.0                  0.0                  0.0                  0.0                  0.0                  0.0                  0.0                   0.0                   0.0                      0.0                      0.0                  0.0                      0.0                       0.0                      0.0                       0.0                      0.0                      0.0                      0.0                        0.0                 0.0                 0.0                      0.0 <td>PCT-02_ap_028</td> <td>0.14</td> <td>&lt;0.01</td> <td>&lt;0.09</td> <td>0.18</td> <td>0.13</td> <td>0.29</td> <td>0.14</td> <td>0.05</td> <td>38.42</td> <td><b>40.0</b>4</td> <td>0.02</td> <td>&lt;0.03</td> <td>17.96</td> <td>&lt;0.01</td> <td>&lt;0.02</td> <td>0.99</td> <td>1.71</td> <td>37.97</td> <td>98.00</td>	PCT-02_ap_028	0.14	<0.01	<0.09	0.18	0.13	0.29	0.14	0.05	38.42	<b>40.0</b> 4	0.02	<0.03	17.96	<0.01	<0.02	0.99	1.71	37.97	98.00
0.00         0.00 <th< td=""><td>PCT-02_ap_029</td><td>0.14</td><td>&lt;0.01</td><td>0.11</td><td>0.15</td><td>0.12</td><td>0.30</td><td>0.17</td><td>0.03</td><td>38.19</td><td>×0.04</td><td>0.04</td><td>&lt;0.03</td><td>17.91</td><td>&lt;0.01</td><td>&lt;0.02</td><td>1.02</td><td>1.88</td><td>37.78</td><td>97.86</td></th<>	PCT-02_ap_029	0.14	<0.01	0.11	0.15	0.12	0.30	0.17	0.03	38.19	×0.04	0.04	<0.03	17.91	<0.01	<0.02	1.02	1.88	37.78	97.86
1	PCT-02_ap030	0.09	<0.01	<0.08	<0.1	0.10	0.32	0.17	0.04	38.40	40.04	90.0	<0.03	17.96	0.02	<0.02	1.02	1.92	37.85	97.95
0.00         0.01         0.02         0.02         0.02 <th< td=""><td>PCT-02_ap031</td><td>0.11</td><td>&lt;0.01</td><td>&lt;0.09</td><td>0.22</td><td>0.13</td><td>0.31</td><td>0.18</td><td>90.0</td><td>38.44</td><td>&lt;0.04</td><td>0.05</td><td>×0.04</td><td>18.05</td><td>&lt;0.01</td><td>&lt;0.02</td><td>1.00</td><td>1.88</td><td>38.04</td><td>98.47</td></th<>	PCT-02_ap031	0.11	<0.01	<0.09	0.22	0.13	0.31	0.18	90.0	38.44	<0.04	0.05	×0.04	18.05	<0.01	<0.02	1.00	1.88	38.04	98.47
0.00         0.01         0.02         0.03         0.04         0.03         0.04         0.04         0.03         0.04         0.04         0.03         0.04 <th< td=""><td>PCT-02_ap032</td><td>0.07</td><td>&lt;0.01</td><td>&lt;0.08</td><td>0.13</td><td>0.13</td><td>0.30</td><td>0.16</td><td>90.0</td><td>38.29</td><td>&lt;0.04</td><td>0.03</td><td>&lt;0.04</td><td>17.88</td><td>&lt;0.01</td><td>&lt;0.02</td><td>1.01</td><td>1.87</td><td>37.67</td><td>97.59</td></th<>	PCT-02_ap032	0.07	<0.01	<0.08	0.13	0.13	0.30	0.16	90.0	38.29	<0.04	0.03	<0.04	17.88	<0.01	<0.02	1.01	1.87	37.67	97.59
0.10         0.10 <th< td=""><td>PCT-02_ap_033</td><td>0.09</td><td>&lt;0.01</td><td>&lt;0.09</td><td>&lt;0.09</td><td>60.0</td><td>0.27</td><td>0.14</td><td>90.0</td><td>38.38</td><td>&lt;0.0&gt;</td><td>0.03</td><td>&lt;0.03</td><td>18.01</td><td>0.01</td><td>&lt;0.02</td><td>0.87</td><td>2.27</td><td>37.75</td><td>97.97</td></th<>	PCT-02_ap_033	0.09	<0.01	<0.09	<0.09	60.0	0.27	0.14	90.0	38.38	<0.0>	0.03	<0.03	18.01	0.01	<0.02	0.87	2.27	37.75	97.97
0.00         4.010	PCT-02_ap034	0.10	<0.01	<0.08	0.16	0.11	0.30	0.15	0.05	38.17	<0.03	0.03	<0.04	17.99	<0.01	<0.02	1.00	1.99	37.74	97.79
0.0         4.00	PCT-02_ap035	0.08	<0.01	<0.09	<0.09	<0.0>	0.31	0.17	0.02	38.60	<0.04	0.04	<0.02	17.88	<0.01	<0.02	1.04	1.83	37.80	97.82
0.10         0.10 <th< td=""><td>PCT-02_ap_036</td><td>0.09</td><td>&lt;0.01</td><td>&lt;0.09</td><td>0.18</td><td>0.07</td><td>0.31</td><td>0.17</td><td>90.0</td><td>38.53</td><td>&lt;0.0&gt;</td><td>0.05</td><td>&lt;0.03</td><td>17.92</td><td>&lt;0.01</td><td>&lt;0.02</td><td>1.04</td><td>1.83</td><td>37.87</td><td>98.12</td></th<>	PCT-02_ap_036	0.09	<0.01	<0.09	0.18	0.07	0.31	0.17	90.0	38.53	<0.0>	0.05	<0.03	17.92	<0.01	<0.02	1.04	1.83	37.87	98.12
01         400         010         010         400	PCT-01_ap_001	0.10	<0.01	0.12	0.33	0.15	0.27	0.16	90.0	37.83	<0.04	0.08	<0.03	17.83	<0.01	<0.02	1.53	1.53	37.56	97.56
0.02         -0.01         -0.01         -0.02	PCT-01_ap_002	0.11	<0.01	0.10	0.27	0.20	0.23	0.18	0.07	38.12	0.04	0.07	<0.03	17.82	0.01	<0.02	1.54	1.55	37.67	97.98
012         011         012         012         013         022         013         022         013         022         013         022         013         022         013         022         014 <td>PCT-01_ap_003</td> <td>0.05</td> <td>&lt;0.01</td> <td>&lt;0.08</td> <td>&lt;0.09</td> <td>&gt;0.06</td> <td>0.03</td> <td>90.0</td> <td>&lt;0.01</td> <td>39.01</td> <td>&lt;0.04</td> <td>90.0</td> <td>&lt;0.03</td> <td>18.18</td> <td>0.04</td> <td>&lt;0.02</td> <td>0.11</td> <td>3.61</td> <td>37.67</td> <td>98.79</td>	PCT-01_ap_003	0.05	<0.01	<0.08	<0.09	>0.06	0.03	90.0	<0.01	39.01	<0.04	90.0	<0.03	18.18	0.04	<0.02	0.11	3.61	37.67	98.79
0.10         0.01         0.14         0.14         0.25         0.20         0.05         3.07         0.05         0.01         0.05         0.01         0.05         0.01         0.05         0.01         0.05         0.01         0.05         0.01         0.05         0.01         0.05         0.01         0.05         0.01         0.02 <th< td=""><td>PCT-01_ap_004</td><td>0.12</td><td>&lt;0.01</td><td>0.15</td><td>0.24</td><td>0.19</td><td>0.23</td><td>0.20</td><td>90.0</td><td>38.17</td><td>&lt;0.04</td><td>0.10</td><td>&lt;0.03</td><td>17.94</td><td>&lt;0.01</td><td>&lt;0.02</td><td>1.54</td><td>1.63</td><td>37.80</td><td>98.38</td></th<>	PCT-01_ap_004	0.12	<0.01	0.15	0.24	0.19	0.23	0.20	90.0	38.17	<0.04	0.10	<0.03	17.94	<0.01	<0.02	1.54	1.63	37.80	98.38
0.06         0.01         0.10         0.02         0.03         17.9         0.03         17.9         0.03         17.9         0.04 <th< td=""><td>PCT-01_ap_005</td><td>0.12</td><td>0.01</td><td>0.14</td><td>0.28</td><td>0.21</td><td>0.23</td><td>0.20</td><td>0.05</td><td>38.07</td><td>0.05</td><td>0.10</td><td>&lt;0.03</td><td>17.89</td><td>&lt;0.01</td><td>&lt;0.02</td><td>1.38</td><td>1.83</td><td>37.69</td><td>98.25</td></th<>	PCT-01_ap_005	0.12	0.01	0.14	0.28	0.21	0.23	0.20	0.05	38.07	0.05	0.10	<0.03	17.89	<0.01	<0.02	1.38	1.83	37.69	98.25
010         0110	PCT-01_ap_006	0.09	<0.01	0.12	0.16	0.17	0.25	0.20	0.05	37.94	×0.04	0.10	×0.04	17.88	<0.01	<0.02	1.55	1.59	37.60	97.69
0.05         -0.01         -0.02         -0.04	PCT-01_ap_007	0.10	<0.01	0.15	0.31	60.0	0.23	0.16	0.07	38.17	<b>40.0</b> 4	90.0	<0.03	17.97	0.01	<0.02	1.55	1.44	37.90	98.22
011         4011         6012         602         0.12         0.02         0.12         0.02         0.12         0.02         0	PCT-01_ap_008	0.02	<0.01	<0.09	<0.09	0.07	0.04	90.0	<0.01	38.98	<b>*</b> 0.0 <b>*</b>	0.03	<0.03	18.04	0.01	<0.02	0.14	3.21	37.61	98.24
011         0101         0.036         0.014         0.036         0.014         0.036         0.014         0.036         0.014         0.036         0.014         0.036         0.014         0.010         0.014         0.016         0.014         0.010         0.014         0.010         0.014         0.010         0.014         0.010         0.014         0.010         0.014         0.010         0.014         0.010         0.014         0.010         0.014         0.010         0.014         0.010         0.014         0.010         0.014         0.010         0.014         0.010         0.014         0.010         0.014         0.010         0.014         0.	PCT-01_ap_009	0.13	<0.01	<0.09	0.22	0.18	0.25	0.13	90.0	38.01	×0.04	0.08	<0.03	17.94	0.01	0.02	1.51	1.50	37.79	97.85
0.14         0.01         0.13         0.31         0.31         0.31         0.31         0.31         0.31         0.31         0.31         0.31         0.31         0.31         0.31         0.31         0.31         0.31         0.31         0.31         0.32         0.14         0.00         0.02         0.02         0.02         1.55         1.43         3.75           0.14         <0.01	PCT-01_ap_010	0.11	<0.01	0.14	0.26	0.21	0.23	0.15	0.07	37.97	0.05	0.04	<0.03	17.81	<0.01	<0.02	1.52	1.51	37.60	97.67
0.14         COOL         COOL <th< td=""><td>PCT-01_ap_011</td><td>0.14</td><td>&lt;0.01</td><td>0.13</td><td>0.31</td><td>0.19</td><td>0.25</td><td>0.14</td><td>0.08</td><td>37.86</td><td><b>4</b>0.0<b>4</b></td><td>0.07</td><td>&lt;0.03</td><td>17.82</td><td>&lt;0.01</td><td>&lt;0.02</td><td>1.56</td><td>1.45</td><td>37.62</td><td>97.62</td></th<>	PCT-01_ap_011	0.14	<0.01	0.13	0.31	0.19	0.25	0.14	0.08	37.86	<b>4</b> 0.0 <b>4</b>	0.07	<0.03	17.82	<0.01	<0.02	1.56	1.45	37.62	97.62
0.02         0.01         0.01         0.02         0.02         0.02         0.02         0.02         0.02         0.03         0.03         0.03         0.03         0.04 <th< td=""><td>PCT-01_ap_012</td><td>0.14</td><td>&lt;0.01</td><td>&lt;0.09</td><td>0.24</td><td>0.18</td><td>0.25</td><td>0.15</td><td>0.08</td><td>38.06</td><td>&lt;0.03</td><td>0.07</td><td>&lt;0.03</td><td>17.94</td><td>&lt;0.01</td><td>&lt;0.02</td><td>1.55</td><td>1.43</td><td>37.87</td><td>97.94</td></th<>	PCT-01_ap_012	0.14	<0.01	<0.09	0.24	0.18	0.25	0.15	0.08	38.06	<0.03	0.07	<0.03	17.94	<0.01	<0.02	1.55	1.43	37.87	97.94
0.15         0.01         0.15         0.02         0.02         0.04         0.04         0.03         1802         0.02         0.02         0.03         1771         0.02         0.02         0.02         0.03         0.04         0.03         0.04         0.03         0.04         0.03         0.04         0.04         0.04         0.02         0.04         0.02         0.04 <th< td=""><td>PCT-01_ap_013</td><td>0.05</td><td>&lt;0.01</td><td>&lt;0.08</td><td>0.18</td><td>0.17</td><td>0.08</td><td>0.04</td><td>&lt;0.01</td><td>36.29</td><td>0.04</td><td>0.15</td><td>&lt;0.03</td><td>16.94</td><td>0.07</td><td>0.02</td><td>0.07</td><td>3.61</td><td>35.15</td><td>92.84</td></th<>	PCT-01_ap_013	0.05	<0.01	<0.08	0.18	0.17	0.08	0.04	<0.01	36.29	0.04	0.15	<0.03	16.94	0.07	0.02	0.07	3.61	35.15	92.84
0.02         0.03         0.04         0.03         0.04 <th< td=""><td>PCT-01_ap_014</td><td>0.15</td><td>&lt;0.01</td><td>0.15</td><td>0.34</td><td>0.23</td><td>0.10</td><td>0.08</td><td>90.0</td><td>38.43</td><td>40.04</td><td>0.04</td><td>&lt;0.03</td><td>18.02</td><td>0.02</td><td>&lt;0.02</td><td>0.25</td><td>3.05</td><td>37.71</td><td>98.63</td></th<>	PCT-01_ap_014	0.15	<0.01	0.15	0.34	0.23	0.10	0.08	90.0	38.43	40.04	0.04	<0.03	18.02	0.02	<0.02	0.25	3.05	37.71	98.63
0.10         0.010	PCT-01_ap_015	0.22	0.03	<0.09	0.25	0.24	0.30	0.20	0.07	37.55	<0.03	0.11	<0.03	17.72	0.02	<0.02	1.39	1.74	37.47	97.31
0.00         0.01         0.00         0.01         0.00         0.01         0.00         0.01         0.00         0.01         0.00 <th< td=""><td>PCI-01_ap016</td><td>01.0</td><td>0.00</td><td>80.04</td><td>0.23</td><td>0.10</td><td>0.24</td><td>9 0</td><td>0.05</td><td>37.90</td><td>40.04</td><td>0.07</td><td>\$0.03</td><td>17.84</td><td>10.04</td><td>20.02</td><td>44.</td><td>7.57</td><td>37.09</td><td>97.47</td></th<>	PCI-01_ap016	01.0	0.00	80.04	0.23	0.10	0.24	9 0	0.05	37.90	40.04	0.07	\$0.03	17.84	10.04	20.02	44.	7.57	37.09	97.47
0.0         0.01         0.02         0.01         0.02         0.02         0.02         0.02         0.02         0.02         0.02         0.02         0.02         0.02         0.02         0.02         0.02         0.02         0.02         0.02         0.02         0.02         0.03         0.03         0.03         0.03         0.03         0.03         0.03         0.04         0.03         0.04         0.03         0.04         0.03         0.04         0.03	MI G-01 ap 002	0.00	0.0	00.00	5 5	0.0	20.0	60.0	. c	38.36	50:03	0.07	\$ 50	17.04	5.5	20.02	25.	06.1	37.40	00.00
0.10         <0.01         <0.01         <0.02         <0.02         <0.02         <0.02         <0.02         <0.02         <0.02         <0.02         <0.02         <0.02         <0.02         <0.02         <0.02         <0.02         <0.02         <0.02         <0.02         <0.02         <0.02         <0.02         <0.02         <0.02         <0.02         <0.02         <0.02         <0.02         <0.02         <0.02         <0.02         <0.02         <0.02         <0.02         <0.02         <0.02         <0.02         <0.02         <0.02         <0.02         <0.02         <0.02         <0.02         <0.02         <0.02         <0.02         <0.02         <0.02         <0.02         <0.02         <0.02         <0.02         <0.02         <0.02         <0.02         <0.02         <0.02         <0.02         <0.02         <0.02         <0.02         <0.02         <0.02         <0.02         <0.02         <0.02         <0.02         <0.02         <0.02         <0.02         <0.02         <0.02         <0.02         <0.02         <0.02         <0.02         <0.02         <0.02         <0.02         <0.02         <0.02         <0.02         <0.02         <0.02         <0.02         <0.02         <0.02	MI G-01 ap 003	0.08	0.07	60.0>	60.0	60 0	0.45	0.07	0.15	38.38	\$0.03 \$0.03	0.08	\$0 03 \$0 03	17.95	000	\$0.05 \$0.00	149	2.78	37.45	99 10
0.07         -0.01         -0.08         -0.09         -0.04	MLG-01 ap 004	0.10	<0.01	<0.08	0.10	0.07	0.67	0.10	0.17	37.99	<0.04	0.08	40.0 <del>4</del>	18.05	0.02	<0.02	1.46	1.84	37.91	98.57
0.08         c.0.01         c.0.08         c.0.08         c.0.01         c.0.02         c.0.03         c.0.04         c.0.03         c.0.04         c.0.04         c.0.03         c.0.04         c.0.03         c.0.04         c.0.03         c.0.04         c.0.03         c.0.04         c.0.03         c.0.04         c.0.03         c.0.04         c.0.02         c.0.04         c.0.03         c.0.04 <td>MLG-01_ap_005</td> <td>0.07</td> <td>&lt;0.01</td> <td>&lt;0.08</td> <td>&lt;0.09</td> <td>90.0</td> <td>0.46</td> <td>0.05</td> <td>0.18</td> <td>38.21</td> <td>0.04</td> <td>0.08</td> <td>&lt;0.03</td> <td>18.11</td> <td>0.01</td> <td>&lt;0.02</td> <td>1.41</td> <td>2.87</td> <td>37.55</td> <td>99.11</td>	MLG-01_ap_005	0.07	<0.01	<0.08	<0.09	90.0	0.46	0.05	0.18	38.21	0.04	0.08	<0.03	18.11	0.01	<0.02	1.41	2.87	37.55	99.11
0.08	MLG-01_ap_006	0.08	<0.01	<0.08	<0.09	0.13	0.42	0.10	0.17	38.42	<0.04	0.05	<0.03	18.09	<0.01	<0.02	1.20	3.02	37.57	99.27
0.12	MLG-01_ap007	0.08	<0.01	<0.09	<0.09	<0.0>	0.41	0.07	0.16	38.52	0.07	0.08	<0.04	18.03	<0.01	<0.02	1.22	3.03	37.50	99.17
0.09	MLG-01_ap_008	0.12	<0.01	0.13	<0.1	0.12	0.45	0.05	0.18	38.27	<0.03	0.07	<0.03	18.02	<0.01	<0.02	1.26	3.02	37.46	99.15
0.08	MLG-01_ap_009	0.09	<0.01	<0.08	0.13	0.11	0.53	0.12	0.17	37.90	×0.04	0.18	<0.03	17.95	<0.01	<0.02	1.49	1.97	37.66	98.29
0.09	MLG-01_ap_010	0.08	<0.01	<0.08	0.10	0.11	0.47	0.05	0.15	38.32	90.0	0.08	<0.03	18.04	0.01	<0.02	1.17	2.99	37.50	99.12
0.08	MLG-01_ap011	0.00	<0.01	<0.09	<0.09	90.0>	0.54	0.09	0.16	38.20	40:04	0.09	<0.03	17.95	0.01	<0.02	14.	1.79	37.80	98.12
0.11 0.01 c.0.09 0.11 0.10 0.37 0.06 0.17 38.52 c.0.04 0.09 c.0.03 18.05 0.01 c.0.02 1.49 2.83 3761 8 0.08 c.0.01 c.0.09 c.0.19 c.0.09 0.12 0.29 0.17 38.31 c.0.04 0.09 c.0.04 18.05 0.01 c.0.02 1.24 1.84 3.75 8 0.08 c.0.01 c.0.08 c.0.09 c.0.06 0.42 0.09 0.17 38.46 c.0.04 0.09 c.0.04 18.05 0.01 c.0.02 1.25 2.97 37.57 8 0.07 c.01 c.008 c.0.09 0.12 0.55 0.11 0.20 38.21 c.0.03 0.06 c.0.04 17.98 c.0.01 c.0.02 1.41 1.78 37.87 8	MLG-01_ap_012	0.08	<0.01	<0.08	<0.09	90.0	0.44	0.08	0.15	38.45	40:04	0.08	<0.03	18.02	0.01	<0.02	1.28	2.55	37.69	98.83
0.08 <0.01	MLG-01_ap013	0.11	0.01	<0.09	0.11	0.10	0.37	90.0	0.17	38.52	40.04	0.09	<0.03	18.05	0.01	*	1.49	2.83	37.61	99.52
0.10 <0.01 <0.09 0.11 0.09 0.49 0.07 0.18 38.09 <0.04 0.09 <0.04 18.00 0.01 <0.02 1.24 18.4 37.87 9 0.08 <0.011 <0.08 <0.09 0.12 0.55 0.11 0.20 38.21 <0.03 0.06 <0.04 17.98 <0.01 <0.02 1.41 1.78 37.87 9	MLG-01_ap_014	0.08	<0.01	0.09	0.11	>0.06	0.60	90.0	0.17	38.31	40.04	0.09	<0.03	18.03	0.02	٧	1.62	2.72	37.55	99.43
0.08 <0.01 <0.08 <0.09 0.12 0.55 0.11 0.20 38.21 <0.03 0.06 <0.04 17.98 <0.01 <0.02 1.41 1.78 37.87 \$	MLG-01_ap015	0.10	<0.01	<0.09	0.11	0.09	0.49	0.07	0.18	38.09	\$0.0 5	0.09	\$0.0 <del>4</del>	18.00	0.01	٧	1.24	1.84	37.87	98.17
0,07 0,01 <0.08 <0.09 0,12 0,55 0,11 0,20 38,21 <0,03 0,06 <0,04 17,98 <0,01 <0,02 1,41 1,76 37,87 8	MLG-01_ap016	0.08	<0.01	<0.08	<0.09	90.0	0.42	0.09	0.17	38.46	40.04	0.09	\$0.0 <del>4</del>	18.05	0.01	٧	1.25	2.97	37.57	99.17
۱	MLG-01_ap017	0.07	0.01	<0.08	٠,	0.12	0.55	0.11	0.20	38.21	<0.03	90.0	\$0.0 <del>4</del>	17.98	<0.01	٧	1.4.1	1.78	37.87	98.36

Appendix C: Eastern Sunda arc apatite trace element chemistry (EMPA)

				•	•											,		,	
Analysis ID	Si	AI	La	Ce	PN	Ьe	υM	Mg	Ca	Sr	Na	K	Ь	S	As	CI	F (	. stoi.	TOTAL
MLG-01_ap018	0.09	<0.01	<0.08	<0.09	<0.06	0.50	0.05	0.16	38.27	<0.04	0.08	<0.04	17.97	<0.01	<0.02	1.27	1.88	37.85	98.13
MLG-01_ap019	0.08	<0.01	<0.09	<0.09	<0.0>	0.42	0.07	0.17	38.42	0.05	0.05	<0.04	18.04	<0.01	<0.02	1.32	2.83	37.50	98.95
MLG-01_ap_020	0.23	0.07	<0.09	<0.09	<0.06	0.57	0.08	0.25	38.24	0.04	0.08	<0.03	17.83	<0.01	<0.02	1.41	2.82	37.51	99.14
MLG-01_ap_021	0.10	<0.01	<0.08	0.14	0.07	0.43	0.06	0.16	38.37	<0.04	0.08	0.04	18.08	<0.01	<0.02	1.38	2.68	37.66	99.24
MLG-01_ap022	0.09	<0.01	<0.08	0.15	0.07	0.33	0.09	0.11	38.31	<0.03	0.04	<0.03	18.04	0.01	<0.02	1.39	1.85	37.87	98.35
MLG-01_ap023	0.08	×0.01	<0.08	<0.09	0.09	0.54	0.10	0.19	38.05	<0.04	0.16	<0.03	18.06	×0.01	<0.02	1.74	1.79	37.86	98.66
MLG-01_ap024	0.08	<0.01	<0.08	<0.09	×0.06	0.41	90.0	0.18	38.35	0.05	0.02	×0.04	18.03	<0.01	<0.02	1.18	2.95	37.49	98.83
MLG-01_ap025	0.08	<0.01	<0.09	<b>4</b> 0.1	<0.07	0.42	0.07	0.17	38.34	<0.03	0.07	×0.04	18.00	<0.01	<0.02	1.37	2.96	37.38	98.82
MLG-01_ap026	0.09	<0.01	<0.08	<0.09	>0.06	0.46	90.0	0.16	38.16	<0.04	0.07	<0.03	17.96	<0.01	<0.02	1.27	2.82	37.36	98.41
MLG-01_ap_027	0.08	<0.01	<0.08	<0.09	0.12	0.48	0.07	0.16	38.20	<0.04	0.13	<0.03	18.00	0.01	<0.02	1.43	2.34	37.63	98.64
MLG-01_ap_028	0.08	<0.01	<0.08	<0.09	0.10	0.41	0.05	0.18	38.25	<0.04	0.08	<0.03	17.97	0.02	<0.02	1.46	2.75	37.40	98.75
MLG-01_ap_029	0.09	<0.01	<0.09	<0.09	0.08	0.44	90.0	0.19	38.42	<0.04	0.07	×0.04	18.05	<0.01	<0.02	1.49	3.00	37.48	99.37
MLG-01_ap_030	0.09	0.02	0.09	<0.09	0.13	0.47	90.0	0.17	38.36	<0.04	0.07	×0.04	18.03	<0.01	<0.02	1.28	2.81	37.60	99.18
MLG-01_ap031	0.12	<0.01	<0.09	<0.09	0.07	0.58	0.06	0.17	37.71	<0.04	0.17	<0.04	17.79	0.01	<0.02	1.48	1.79	37.48	97.42
MLG-01_ap032	0.17	<0.01	<0.08	<0.09	0.14	0.50	0.08	0.19	38.20	<0.03	0.09	<0.03	17.84	<0.01	<0.02	1.58	2.74	37.35	98.88
JEM-02_ap_001	<0.01	0	<0.08	<0.08	<0.04	<0.01	<0.01	0>	39.15	<0.02	<0.01	<0.03	17.96	0>	<0.01	0.01	0.05	38.79	96.36
JEM-02_ap002	<0.01	<0.01	<0.08	<0.08	<0.04	<0.01	<0.02	0.01	38.98	<0.03	<0.01	<0.03	17.93	<0.01	<0.01	0.01	<0.02	38.69	95.61
JEM-02_ap003	<0.01	<0.01	<0.08	<0.08	<0.05	<0.01	<0.02	<0.01	35.92	<0.03	<0.01	<0.03	16.61	<0.01	<0.01	0.03	0.05	35.73	88.33
JEM-02_ap004	<0.01	<0.01	<0.08	<0.09	40.0 <del>4</del>	<0.01	<0.02	<0.01	37.85	<0.02	<0.01	<0.03	17.63	<0.01	<0.01	0.07	<0.02	37.81	93.35
JEM-02_ap_005	<0.01	<0.01	<0.08	<0.09	<0.05	<0.01	<0.02	0.01	38.32	<0.03	<0.01	<0.03	17.71	0.01	<0.01	0.02	0.02	38.14	94.24
JEM-02_ap006	<0.01	<0.01	<0.08	<0.09	40.0 <del>4</del>	<0.01	<0.02	0.01	38.49	<0.03	<0.01	<0.03	17.83	<0.01	<0.01	0.03	90.0	38.33	94.74
JEM-02_ap007	<0.01	<0.01	<0.08	<0.08	0.05	0.01	<0.02	<0.01	38.00	<0.03	<0.01	40.0 <del>4</del>	17.79	<0.01	<0.01	0.04	0.02	38.11	94.03
BHF-04_ap_001	0.05	<0.01	0.09	0.34	0.16	0.03	0.20	<0.01	38.83	0.04	0.08	<0.03	18.16	0.03	<0.02	0.13	3.67	37.70	99.52
BHF-04_ap002	0.04	<0.01	<0.09	0.18	0.08	90.0	0.25	0.01	38.82	<0.04	0.05	<0.03	18.16	0.02	<0.02	0.23	3.38	37.71	98.98
BHF-04_ap003	0.09	<0.01	0.09	0.14	0.13	90.0	0.22	<0.01	38.93	0.04	0.04	<0.03	18.10	0.03	<0.02	0.14	3.45	37.75	99.21
BHF-04_ap_004	0.03	<0.01	<0.09	<0.09	<0.0>	0.04	0.21	<0.01	39.20	<0.04	0.04	<0.03	18.23	0.02	<0.02	0.11	3.09	38.02	98.99
BHF-04_ap005	0.03	<0.01	<0.08	<0.09	<0.0>	0.13	0.44	0.02	38.61	0.07	0.04	<0.03	18.04	<0.01	<0.02	0.19	3.46	37.49	98.53
BHF-04_ap006	0.04	<0.01	<0.09	0.16	0.16	0.08	0.35	0.02	38.69	0.05	0.09	40.0 <del>x</del>	18.11	0.04	<0.02	0.15	3.49	37.67	99.11
BHF-04_ap_007	0.03	<0.01	0.16	0.19	0.10	0.08	0.33	0.03	38.58	<0.03	0.09	×0.04	18.10	0.02	<0.02	0.24	3.27	37.65	98.88
BHF-04_ap008	0.03	<0.01	<0.09	0.15	0.11	0.08	0.32	<0.01	38.92	<0.04	0.08	40.0 <del>x</del>	18.01	0.02	<0.02	0.26	3.36	37.58	98.92
BHF-04_ap_009	0.05	<0.01	<0.09	0.18	0.09	0.07	0.32	0.02	38.47	0.04	0.12	40.0 <del>x</del>	18.07	90.0	<0.02	0.28	3.30	37.61	98.67
BHF-04_ap010	0.05	<0.01	0.15	0.25	0.08	0.05	0.17	0.01	38.61	<0.03	90.0	<0.04	18.00	0.02	<0.02	0.26	3.29	37.47	98.48
BHF-04_ap_011	0.05	<0.01	<0.09	0.10	0.12	0.07	0.26	0.02	38.72	<0.04	90.0	<0.03	18.09	0.02	<0.02	0.24	3.23	37.69	298.67
BHF-04_ap012	0.01	<0.01	<0.09	<0.09	0.09	0.04	0.18	<0.01	39.16	<0.04	0.02	0.04	18.13	0.01	<0.02	0.12	2.97	37.92	98.72
BHF-04_ap_013	0.03	<0.01	<0.09	<0.09	0.10	<0.02	0.23	0.01	38.90	0.04	0.03	<0.03	18.21	0.01	<0.02	0.16	3.28	37.79	98.79
BHF-04_ap014	0.00	<0.01	<0.09	0.16	<0.07	0.07	0.33	0.02	38.70	<0.04	0.07	<0.03	18.05	0.02	<0.02	0.20	3.38	37.57	98.63
BHF-04_ap_015	40.0	<0.01 0.03	<0.09	0.10	0.11	0.04	0.21	<0.01	39.07	<0.03	0.0 40.0	\$0.0 \$0.0	18.15	0.01	<0.02	0.11	3.52	37.71	99.11
BHF-04_ap016	0.08	0.0 6	0.13	0.30	0.15	0.16	0.19	0.06	37.08	<0.04	0.18	\$0.03	17.88	0.09	×0.02	9.79	7.53	37.59	98.37
010 ap 010	5 6	5 5	0000	- 6	2 6	2 6	5 6	20:0	20.70	50.0	5 5	80.00	3 6	- 6	20.07	7.0	2.5	27.57	00.00
BHF-04_ap_019	0.02	0.0	60.05	2.0	0.03 0.03	0.00	0.42	0.07	39.00	<0.03	. 6	80.05	18 14	0.02	×0.02	1 1	3.67	37.69	90.02
BHF-04 ap 020	0.03	<0.01	<0.09	0.10	<0.06	0.03	0.26	<0.01	38.86	<0.04	0.06	<0.03	18.13		0.02	0.15	3.66	37.55	98.87
BHF-04_ap021	0.05	<0.01	0.10	<0.1	0.14	0.14	0.40	0.02	38.23	<0.04	0.12	<0.03	18.04		<0.02	0.26	3.05	37.63	98.24
BHF-04_ap_022	0.05	<0.01	<0.08	0.20	0.16	0.10	0.38	0.02	38.61	<0.04	0.11	<0.03	18.01		<0.02	0.22	3.49	37.57	98.97
BHF-04_ap_023	0.04	<0.01	<0.09	<0.09	0.09	0.07	0.23	0.02	38.91	<0.04	0.05	<0.03	17.95		<0.02	0.52	2.64	37.70	98.23
BHF-04_ap024	0.08	<0.01	<0.09	0.22	0.10	90.0	0.23	<0.01	38.65	0.05	0.07	<0.03	18.17		<0.02	0.19	3.36	37.76	98.96
BHF-04_ap_025	0.01	<0.01	<0.08	<0.09	>0.06	0.03	0.04	<0.01	39.25	<0.04	0.05	<0.03	18.19		<0.02	0.15	3.53	37.70	98.96
BHF-04_ap_026	90:0	<0.01	<0.08	0.10	0.12	0.03	0.19	<0.01	38.97	<0.04	0.03	0.03	18.12	<0.01	<0.02	0.11	3.63	37.61	99.01
BHF-04_ap027	0.07	<0.01	<0.09	0.11	0.19	0.10	0.38	0.02	38.25	0.04	0.14	<0.04	18.02	0.09	<0.02	0.47	3.34	37.50	98.72
BHF-04_ap028	0.04	<0.01	<0.08	,	<0.06	0.07	0.41	0.02	38.67	<0.03	0.04	<0.04	18.08	<0.01	<0.02	0.55	3.02	37.64	98.52
*a	*all elements in wt. %	ints in	wt.%	(EMPA)	γ).														

Appendix C: Eastern Sunda arc apatite trace element chemistry (EMPA)

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Analysis ID	Si	R	La	Ce	PN	Fe	Mn	Mg	Ca	Sr	Na	¥	۵	S	As	Ö	L	O stoi.	TOTAL
BHF-04_ap029	0.02	<0.01	<0.09	<0.09	0.08	0.09	0.28	0.02	38.84	<0.03	0.03	<0.0>	18.10	0.01	<0.02	0.32	3.19	37.64	98.62
BHF-04_ap_030	0.04	<0.01	<0.09	<0.09	>0.06	0.09	0.24	0.02	38.74	<0.04	0.08	<0.03	17.99	0.04	<0.02	0.27	3.33	37.50	98.33
BHF-04_ap_031	0.05	<0.01	0.15	0.33	0.29	0.05	0.23	0.02	37.79	0.05	90:0	<0.03	18.02	0.15	<0.02	0.12	3.54	37.39	98.25
BHF-04_ap_032	0.02	<0.01	<0.09	<0.09	>0.06	0.05	0.24	0.01	38.91	<0.04	0.05	<0.04	18.10	0.01	<0.02	0.21	3.28	37.65	98.54
	<0.01	<0.01	<0.08	0.09	>0.06	0.18	1.32	<0.01	37.50	0.14	0.21	×0.04	17.77	0.27	<0.02	0.60	2.83	37.58	98.50
BHF-04_ap_034	0.02	<0.01	<0.08	<0.09	90.0>	<0.02	0.09	<0.01	39.04	<0.04	0.05	<0.04	18.13	0.01	<0.02	0.39	3.25	37.63	98.59
BHF-01_ap_001	0.02	<0.01	<0.09	0.15	60.0	0.40	0.34	0.13	38.26	<0.03	0.08	<0.03	18.02	0.02	<0.02	1.13	2.60	37.62	98.87
BHF-01_ap002	0.04	<0.01	<0.08	<0.09	>0.06	0.05	0.04	0.05	38.99	0.09	0.17	<0.03	17.71	0.29	<0.02	<0.01	3.87	37.43	98.72
BHF-01_ap_003	0.05	<0.01	<0.09	0.12	0.08	0.29	0.23	0.08	38.35	0.04	0.04	<0.04	18.02	0.01	<0.02	1.20	2.79	37.45	98.75
BHF-01_ap_004	0.02	<0.01	<0.08	<0.09	>0.06	60.0	0.08	<0.01	39.15	0.04	0.02	<0.03	18.18	<0.01	<0.02	0.23	3.62	37.67	99.11
BHF-01_ap_005	0.05	<0.01	<0.08	<0.09	>0.06	0.28	0.24	0.09	38.34	0.07	0.07	<0.03	18.09	0.01	<0.02	0.98	2.74	37.64	98.60
BHF-01_ap_006	0.05	<0.01	0.10	<0.09	<0.06	0.41	0.22	0.14	38.00	<0.04	0.08	<0.03	18.04	0.01	<0.02	1.40	2.36	37.57	98.38
BHF-01_ap_007	0.02	<0.01	<0.08	<0.09	<0.06	0.34	0.33	0.10	38.34	90.0	0.08	<0.03	18.08	0.03	<0.02	1.01	2.72	37.67	98.77
BHF-01_ap_008	0.04	<0.01	<0.08	<0.09	<0.07	0.29	0.23	0.08	38.19	0.05	0.08	<0.03	18.09	<0.01	<0.02	1.23	2.52	37.58	98.37
BHF-01_ap_009	0.02	<0.01	<0.08	<0.09	0.11	0.33	0.26	0.10	38.15	0.04	0.08	<0.03	17.95	0.02	<0.02	1.33	2.16	37.58	98.14
BHF-01_ap_010	0.03	<0.01	<0.08	0.17	0.11	0.38	0.28	0.11	38.15	0.04	0.05	<0.03	18.12	0.02	<0.02	1.30	2.12	37.85	98.74
BHF-01_ap_011	0.02	<0.01	<0.09	<0.09	<0.0>	0.37	0.41	0.11	38.15	0.07	0.11	<0.03	18.10	90.0	<0.02	1.28	2.46	37.79	98.95
BHF-01_ap_012	0.03	<0.01	<0.09	<0.09	0.09	0.37	0.30	0.14	38.09	<0.04	0.07	<0.03	17.97	0.02	<0.02	1.35	2.31	37.55	98.30
BHF-01_ap_013	0.01	<0.01	<0.09	<0.09	0.08	0.27	0.22	0.08	38.28	0.04	0.08	<0.03	18.02	0.01	<0.02	1.28	1.96	37.70	98.03
BHF-01_ap_014	0.03	<0.01	<0.08	0.09	0.13	0.38	0.31	0.10	38.30	<0.04	0.07	<0.03	18.06		<0.02	1.00	2.31	37.82	98.62
BHF-01_ap_015	0.05	<0.01	<0.09	<0.09	>0.06	0.31	0.22	0.08	38.41	90.0	0.05	<0.04	18.09		0.03	1.49	2.20	37.76	98.75
BHF-01_ap016	0.02	<0.01	<0.08	<0.09	>0.06	0.04	0.23	<0.01	39.24	0.07	0.03	<0.04	18.23		<0.02	0.24	2.92	38.08	99.10
BHF-01_ap017	0.01	<0.01	<0.09	<0.09	0.07	0.26	0.19	0.07	38.60	0.05	0.07	<0.03	18.05		<0.02	1.13	2.27	37.78	98.58
BHF-01_ap_018	0.04	<0.01	<0.09	<0.09	>0.06	0.32	0.24	0.10	38.37	<0.03	0.05	<0.03	18.07		<0.02	2.	2.59	37.66	98.50
BHF-01_ap019	0.31	0.15	<0.09	0.11	0.12	0.38	0.24	0.23	37.77	<0.04	0.08	0.15	17.91		<0.02	1.12	2.56	37.83	98.97
BHF-01_ap_020	0.04	<0.01	<0.09	0.10	>0.06	0.16	0.03	<0.01	39.03	0.04	90.0	<0.04	17.25		<0.02	0.02	4.34	36.40	97.63
BHF-01_ap_021	0.04	<0.01	<0.09	0.13	<0.0>	0.31	0.27	0.09	38.54	0.07	0.05	<0.03	18.10		<0.02	1.00	2.69	37.75	99.04
BHF-01_ap022	0.03	<0.01	<0.08	<0.1	60.0	0.51	0.40	0.16	37.76	0.07	90.0	<b>4</b> 0.0 <b>4</b>	18.03		<0.02	1.33	2.63	37.44	98.54
BHF-01_ap_023	0.02	×0.01	0.13	<0.09	<0.07	0.44	0.41	0.11	38.09	0.05	0.08	<0.03	18.00		<0.02	1.12	2.65	37.53	98.64
BHF-01_ap_024	0.04	×0.01	<0.08	0.14	0.11	0.28	0.34	0.09	38.23	0.04	0.10	40.04	18.03		<0.02	1.20	2.57	37.63	98.85
BHF-01_ap_025	0.03	×0.04	<0.08	0.13	0.11	0.41	0.31	0.11	38.23	0.04	0.08	<0.03	18.08		<0.02	90.	2.67	37.66	98.96
SING-01_ap_001	0.11	0.03	<0.09	0.15	×0.06	0.04	9. ó	\$0.01 50.01	38.91	0.08	<0.02	<0.03 6 9	17.87	0.07	0.09	1.24	2.34	37.68	98.61
SING-01 ap 002	2 0	0.0	80.0	00.07	0.0	20.02	0.03	0.00	30.00	0.0 ROO	t 0	\$ 6	8 8	0.00	9.9	5 6	‡ C	37.66	97.30
SING-01 ap 004	0.06	×0.01	<0.0>	0.09	>0.06	0.04	0.11	<0.01	38.91	<0.04	<0.02	<0.03	18.06	0.03	<0.02	1.43	2.10	37.84	98.67
SING-01 ap 005	0.10	<0.01	<0.09	0.17	0.10	<0.02	<0.03	<0.01	39.19	0.06	0.02	<0.03	18.01	90.0	0.04	1.14	2.37	37.95	99.22
SLG-03_ap_001	1.48	1.13	<0.08	<0.09	>0.06	1.77	0.10	1.43	34.50	90.0	<0.02	<0.03	16.25	0.05	0.04	0.59	2.10	37.99	97.49
SLG-03_ap_002	0.74	0.49	<0.09	<0.09	>0.06	0.38	0.05	<0.01	38.43	0.04	0.03	<0.03	17.31	90.0	<0.02	0.73	2.31	38.06	98.61
SLG-03_ap003	0.08	<0.01	<0.09	<0.09	>0.06	0.03	0.05	<0.01	39.54	<0.04	<0.02	<0.04	18.13	0.03	<0.02	0.35	2.26	38.33	98.79
SLG-03_ap_004	1.15	0.89	<0.08	<0.09	>0.06	1.37	0.04	1.04	36.00	<0.04	0.04	<0.03	16.73	0.15	0.02	0.43	2.37	38.33	98.56
SLG-03_ap_005	0.07	<0.01	<0.09	<0.09	>0.06	<0.02	<0.03	0.02	38.94	<0.04	0.03	<0.03	17.71	0.03	0.03	0.41	2.27	37.61	97.18
SLG-03_ap006	0.04	<0.01	<0.08	<0.09	>0.06	0.02	<0.03	<0.01	39.29	<0.03	<0.02	<0.03	18.01	0.02	0.02	0.43	2.19	38.02	98.03
TR-03_ap001	0.11	0.01	<0.08	0.13	<0.07	0.52	1.23	0.28	36.36	<0.04	0.16	40.0 <del>4</del>	17.68	0.12	<0.02	1.29	2.77	36.97	97.63
IR-03_ap002	40.0	0.0	<0.09	60:09	60.0	0.22	0.49	0.15	37.53	<0.04	0.17	<0.03	17.77	LL:0	<0.02	20.7	7.77	37.13	97.26
TR-03_ap003	0.03	×0.01	40.09 60.09	0.12	<0.07	0.32	0.74	0.18	37.62	<0.04	0.13	<0.03	17.97	0.10	<0.02	0.91	3.15	37.40	98.68
TR-03_ap004	0.0	0.0	60.09	<0.09	90.00	0.22	0.30	11.0	38.60	0.06	4 0.14	\$0.03	18.10	0.10	<0.02 0 0 0 0 0	5 T. T	2.78	37.88	99.49
TB 03 35 006	4 6	10.05	80.08	4.0	\$0.06 0.05	7.6.0	80.1	0.28	37.29	0.04	0.18	\$0.03 0.03	17.93	0.13	<0.02 0.02	t	2.20	37.81	98.8
TR-03 ap 007	0.02	<0.07	<0.09	0.10	×0.05 ×0.06	0.27	0.67	0.14	38.38	<0.04	0.18	± 0.05	18.08	0.16	<0.02	5 40	2.77	37.96	69.66
SING-02 ap 001	0 08	0.00	60.0>	60.0>	00 0×	0 14	0.16	010	38 78	0.10	0 11	\$0.05 \$0.04	18.08	0.14	<0.02	0.72	339	37.76	99.57
*	olomo	nto in	*all olomonts in wrt %	J	(		5	5		j					ļ	;		:	
IID.	בובוווע		ו או: ½	_															

Appendix C: Eastern Sunda arc apatite trace element chemistry (EMPA)

Mathematical   Math																				
40.00                 40.00                 40.00                 40.00                 40.00                 40.00                 40.00                 40.00                 40.00                 40.00                 40.00                 40.00                 40.00                 40.00                 40.00                 40.00                40.00                 40.00                40.00                  40.00                 40.00                  40.00                      40.00                  40.00                      40.00                  40.00                  40.00                  40.00                  40.00                  40.00                  40.00                     40.00                  40.00                  40.00 <th>Analysis ID</th> <th>is</th> <th>R</th> <th>La</th> <th>Ce</th> <th>PN</th> <th>Fe</th> <th>Mn</th> <th>Mg</th> <th>Ca</th> <th>Sr</th> <th>Na</th> <th>¥</th> <th>Ь</th> <th>S</th> <th>As</th> <th>ō</th> <th>ш</th> <th>O stoi.</th> <th>TOTAL</th>	Analysis ID	is	R	La	Ce	PN	Fe	Mn	Mg	Ca	Sr	Na	¥	Ь	S	As	ō	ш	O stoi.	TOTAL
40.00         40.00 <th< td=""><td>SING-02_ap_002</td><td>0.04</td><td>&lt;0.01</td><td>&lt;0.09</td><td>&lt;0.09</td><td>&gt;0.06</td><td>0.13</td><td>0.15</td><td>90:0</td><td>38.93</td><td>0.09</td><td>0.09</td><td>0.03</td><td>18.03</td><td>0.11</td><td>&lt;0.02</td><td>0.62</td><td>3.48</td><td>37.61</td><td>99.37</td></th<>	SING-02_ap_002	0.04	<0.01	<0.09	<0.09	>0.06	0.13	0.15	90:0	38.93	0.09	0.09	0.03	18.03	0.11	<0.02	0.62	3.48	37.61	99.37
C10         C10 <td>SING-02_ap_003</td> <td>0.03</td> <td>&lt;0.01</td> <td>&lt;0.08</td> <td>&lt;0.09</td> <td>&lt;0.0&gt;</td> <td>90.0</td> <td>1.36</td> <td>&lt;0.01</td> <td>38.16</td> <td>0.13</td> <td>0.07</td> <td>&lt;0.03</td> <td>18.01</td> <td>0.08</td> <td>&lt;0.02</td> <td>0.35</td> <td>3.24</td> <td>37.68</td> <td>99.18</td>	SING-02_ap_003	0.03	<0.01	<0.08	<0.09	<0.0>	90.0	1.36	<0.01	38.16	0.13	0.07	<0.03	18.01	0.08	<0.02	0.35	3.24	37.68	99.18
11.         4.01         4.01         4.01         4.01         0.02         4.01         0.02	SING-02_ap_004	0.05	<0.01	<0.08	<0.1	>0.06	90.0	0.10	0.03	39.07	<0.03	0.17	<0.03	18.07	0.19	<0.02	0.44	3.33	37.90	99.39
0.00         0.00 <th< td=""><td>SING-02_ap_005</td><td>0.18</td><td>0.07</td><td>&lt;0.08</td><td>0.11</td><td>&lt;0.06</td><td>0.16</td><td>0.19</td><td>0.16</td><td>36.28</td><td>0.07</td><td>0.05</td><td>&lt;0.03</td><td>16.95</td><td>0.04</td><td>&lt;0.02</td><td>0.97</td><td>2.82</td><td>35.56</td><td>93.60</td></th<>	SING-02_ap_005	0.18	0.07	<0.08	0.11	<0.06	0.16	0.19	0.16	36.28	0.07	0.05	<0.03	16.95	0.04	<0.02	0.97	2.82	35.56	93.60
1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,	SING-02_ap006	0.11	<0.01	<0.08	<0.09	>0.06	<0.02	0.05	0.01	32.78	<0.04	0.04	<0.03	13.81	2.08	<0.02	0.28	2.12	33.27	84.56
0.00         0.00 <th< td=""><td>SING-02_ap007</td><td>0.03</td><td>&lt;0.01</td><td>&lt;0.09</td><td>&lt;0.09</td><td>&gt;0.06</td><td>0.12</td><td>0.21</td><td>0.07</td><td>38.91</td><td>0.07</td><td>0.05</td><td>&lt;0.04</td><td>18.16</td><td>0.03</td><td>&lt;0.02</td><td>0.73</td><td>3.00</td><td>37.82</td><td>99.17</td></th<>	SING-02_ap007	0.03	<0.01	<0.09	<0.09	>0.06	0.12	0.21	0.07	38.91	0.07	0.05	<0.04	18.16	0.03	<0.02	0.73	3.00	37.82	99.17
10.00   10.0	SING-02_ap008	0.04	0.01	<0.09	0.11	<0.07	0.16	0.42	0.02	38.53	0.04	0.07	<0.04	18.05	0.02	<0.02	99.0	3.41	37.41	98.97
1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,	SING-02_ap_009	0.02	¢0.04	<0.09	<0.09	<0.0>	<0.02	0.04	<0.01	39.28	40.04	<0.02	<0.03	18.29	0.01	<0.02	0.21	3.50	37.83	99.17
10.00   4.00	SING-02_ap010	0.03	<0.01	<0.08	<0.09	0.07	0.12	0.37	0.02	38.68	0.07	90.0	<0.03	18.14	0.03	<0.02	0.54	3.34	37.65	99.15
0.00         4.01         4.02         0.02 <th< td=""><td>SING-02_ap011</td><td>0.04</td><td>&lt;0.01</td><td>&lt;0.08</td><td>&lt;0.09</td><td>0.08</td><td>0.04</td><td>90.0</td><td>0.02</td><td>38.34</td><td>&lt;0.04</td><td>0.04</td><td>&lt;0.03</td><td>17.64</td><td>0.03</td><td>&lt;0.02</td><td>0.33</td><td>3.42</td><td>36.76</td><td>96.78</td></th<>	SING-02_ap011	0.04	<0.01	<0.08	<0.09	0.08	0.04	90.0	0.02	38.34	<0.04	0.04	<0.03	17.64	0.03	<0.02	0.33	3.42	36.76	96.78
0.00         4.00         4.00         0.00 <th< td=""><td>SING-02_ap012</td><td>0.04</td><td>&lt;0.01</td><td>&lt;0.09</td><td>&lt;0.09</td><td>0.11</td><td>0.08</td><td>0.32</td><td>0.04</td><td>38.66</td><td>90.0</td><td>90.0</td><td>&lt;0.03</td><td>18.18</td><td>0.03</td><td>&lt;0.02</td><td>0.52</td><td>3.47</td><td>37.64</td><td>99.22</td></th<>	SING-02_ap012	0.04	<0.01	<0.09	<0.09	0.11	0.08	0.32	0.04	38.66	90.0	90.0	<0.03	18.18	0.03	<0.02	0.52	3.47	37.64	99.22
0.05         4.00 <th< td=""><td>SING-02_ap013</td><td>0.08</td><td>&lt;0.01</td><td></td><td>&lt;0.09</td><td>&lt;0.0&gt;</td><td>0.10</td><td>0.17</td><td>90:0</td><td>38.69</td><td>0.11</td><td>0.04</td><td>&lt;0.04</td><td>18.18</td><td>0.03</td><td>&lt;0.02</td><td>0.89</td><td>3.15</td><td>37.69</td><td>99.19</td></th<>	SING-02_ap013	0.08	<0.01		<0.09	<0.0>	0.10	0.17	90:0	38.69	0.11	0.04	<0.04	18.18	0.03	<0.02	0.89	3.15	37.69	99.19
0.00         4.00         4.00         4.00         4.00         0.00         4.00         0.00         0.00         4.00         0.00         0.00         0.00         4.00         0.00 <th< td=""><td>SING-02_ap_014</td><td>0.13</td><td>0.03</td><td></td><td>&lt;0.09</td><td>&gt;0.06</td><td>0.09</td><td>0.18</td><td>90:0</td><td>38.27</td><td>0.08</td><td>0.07</td><td>&lt;0.03</td><td>17.65</td><td>0.02</td><td>&lt;0.02</td><td>0.68</td><td>2.84</td><td>37.12</td><td>97.24</td></th<>	SING-02_ap_014	0.13	0.03		<0.09	>0.06	0.09	0.18	90:0	38.27	0.08	0.07	<0.03	17.65	0.02	<0.02	0.68	2.84	37.12	97.24
0.00         4.00         4.00         0.01         0.00         0.01         0.00 <th< td=""><td>SING-02_ap015</td><td>0.05</td><td>&lt;0.01</td><td>&lt;0.08</td><td>&lt;0.09</td><td>&gt;0.06</td><td>0.13</td><td>0.21</td><td>0.05</td><td>38.79</td><td>0.08</td><td>90.0</td><td>&lt;0.04</td><td>18.11</td><td>0.12</td><td>&lt;0.02</td><td>0.97</td><td>3.12</td><td>37.75</td><td>99.44</td></th<>	SING-02_ap015	0.05	<0.01	<0.08	<0.09	>0.06	0.13	0.21	0.05	38.79	0.08	90.0	<0.04	18.11	0.12	<0.02	0.97	3.12	37.75	99.44
0.01         0.01         0.01         0.02         0.02         0.03 <th< td=""><td>SING-02_ap016</td><td>0.09</td><td>&lt;0.01</td><td>&lt;0.08</td><td>&lt;0.09</td><td>0.10</td><td>0.04</td><td>0.11</td><td>0.03</td><td>38.87</td><td>&lt;0.04</td><td>0.03</td><td>&lt;0.03</td><td>18.08</td><td>0.04</td><td>&lt;0.02</td><td>0.36</td><td>3.37</td><td>37.64</td><td>98.77</td></th<>	SING-02_ap016	0.09	<0.01	<0.08	<0.09	0.10	0.04	0.11	0.03	38.87	<0.04	0.03	<0.03	18.08	0.04	<0.02	0.36	3.37	37.64	98.77
0.10         0.00         0.00         0.10         0.00         0.00         0.10         0.00         0.00         0.10         0.10         0.00         0.00         0.10         0.00 <th< td=""><td>SING-02_ap017</td><td>0.04</td><td>&lt;0.01</td><td>&lt;0.09</td><td>&lt;0.09</td><td>&lt;0.06</td><td>0.07</td><td>0.18</td><td>90:0</td><td>39.06</td><td>90.0</td><td>0.05</td><td>&lt;0.04</td><td>18.07</td><td>0.02</td><td>&lt;0.02</td><td>0.65</td><td>3.01</td><td>37.74</td><td>99.01</td></th<>	SING-02_ap017	0.04	<0.01	<0.09	<0.09	<0.06	0.07	0.18	90:0	39.06	90.0	0.05	<0.04	18.07	0.02	<0.02	0.65	3.01	37.74	99.01
010         010 <td>TR-01_ap_001</td> <td>0.10</td> <td>&lt;0.01</td> <td>0.09</td> <td>&lt;0.09</td> <td>&lt;0.06</td> <td>0.18</td> <td>0.07</td> <td>0.10</td> <td>38.59</td> <td>90.0</td> <td>0.05</td> <td>&lt;0.04</td> <td>17.95</td> <td>0.07</td> <td>&lt;0.02</td> <td>1.52</td> <td>1.80</td> <td>37.89</td> <td>98.45</td>	TR-01_ap_001	0.10	<0.01	0.09	<0.09	<0.06	0.18	0.07	0.10	38.59	90.0	0.05	<0.04	17.95	0.07	<0.02	1.52	1.80	37.89	98.45
0.00         -0.01         -0.02         -0.02         -0.02         -0.03	TR-01_ap_002	0.10	<0.01	<0.09	<0.09	>0.06	0.27	90.0	0.13	38.60	<0.04	0.05	0.03	17.90	0.12	<0.02	1.20	1.63	38.07	98.15
0.1         0.1 <td>TR-01_ap_003</td> <td>0.09</td> <td>&lt;0.01</td> <td>&lt;0.08</td> <td>&lt;0.09</td> <td>&lt;0.06</td> <td>0.22</td> <td>0.08</td> <td>0.13</td> <td>38.69</td> <td>&lt;0.03</td> <td>0.05</td> <td>&lt;0.04</td> <td>17.90</td> <td>0.10</td> <td>&lt;0.02</td> <td>1.05</td> <td>2.20</td> <td>37.85</td> <td>98.35</td>	TR-01_ap_003	0.09	<0.01	<0.08	<0.09	<0.06	0.22	0.08	0.13	38.69	<0.03	0.05	<0.04	17.90	0.10	<0.02	1.05	2.20	37.85	98.35
0.00         color	TR-01_ap_004	0.12	<0.01	<0.09	<0.09	<0.0>	0.18	0.10	0.09	38.93	<0.04	0.05	<0.03	17.95	0.08	<0.02	1.05	2.88	37.68	99.11
01         4001         4010         4010         010 </td <td>TR-01_ap_005</td> <td>0.10</td> <td>&lt;0.01</td> <td>&lt;0.08</td> <td>&lt;0.09</td> <td>0.08</td> <td>0.27</td> <td>90.0</td> <td>0.14</td> <td>38.48</td> <td>&lt;0.04</td> <td>0.05</td> <td>&lt;0.04</td> <td>18.06</td> <td>0.08</td> <td>&lt;0.02</td> <td>1.30</td> <td>2.75</td> <td>37.69</td> <td>90.66</td>	TR-01_ap_005	0.10	<0.01	<0.08	<0.09	0.08	0.27	90.0	0.14	38.48	<0.04	0.05	<0.04	18.06	0.08	<0.02	1.30	2.75	37.69	90.66
0.06         4.010         4.010         0.06         9.01         4.010         0.06         4.010         1.06         4.010         1.06         4.010         1.06         4.010         1.06         4.010         1.06         4.010         1.06         4.010         1.06         4.010         1.06         4.010         1.06         4.010         1.06         4.010         1.06         4.010         1.06         4.010         1.06         4.010         1.06         4.010         1.06         4.010         1.06         4.010         1.06         0.01         0.02         4.010         1.06         0.02         4.010         1.06         0.02         4.010         1.06         0.02         4.010         1.00         0.02         0.01         0.02         0.02         0.01         0.02         0.02         0.01         0.02	TR-01_ap006	0.11	<0.01	<0.09	0.16	0.07	0.17	0.11	0.08	38.63	<0.04	0.05	<0.03	18.09	0.02	<0.02	1.13	2.64	37.80	60.66
0.12         0.01         0.01         0.01         0.10         0.01         0.01         0.02         0.01         0.02         0.01         0.02         0.02         0.01         0.02         0.02         0.03         0.03         0.03         0.03         0.03         0.03         0.03         0.03         0.03         0.03         0.04         0.03         0.04         0.03         0.04 <th< td=""><td>TR-01_ap007</td><td>0.09</td><td>&lt;0.01</td><td>&lt;0.08</td><td>&lt;0.09</td><td>0.08</td><td>0.10</td><td>0.10</td><td>90:0</td><td>39.12</td><td>0.05</td><td>90.0</td><td>&lt;0.03</td><td>18.09</td><td>90.0</td><td>&lt;0.02</td><td>0.59</td><td>3.57</td><td>37.71</td><td>69.66</td></th<>	TR-01_ap007	0.09	<0.01	<0.08	<0.09	0.08	0.10	0.10	90:0	39.12	0.05	90.0	<0.03	18.09	90.0	<0.02	0.59	3.57	37.71	69.66
016         0.01         0.08         0.09         0.04	TR-01_ap_008	0.12	<0.01	<0.08	<0.09	0.10	0.21	0.10	0.10	38.81	0.05	90.0	<0.04	18.08	0.10	<0.02	0.78	3.22	37.80	99.53
010         4010	TR-01_ap009	0.15	0.01	<0.08	<0.09	<0.06	0.14	0.05	0.0	37.92	<0.04	0.08	<0.03	17.45	0.14	<0.02	1.30	2.82	36.70	96.79
0.11         4.010         4.000         6.004         6.010         6.004	TR-01_ap010	0.10	<0.01	<0.09	<0.09	>0.06	0.28	90.0	0.14	38.58	<0.04	0.04	<0.04	18.01	0.09	<0.02	1.14	<u>4</u>	38.08	98.34
0.12         Color         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.02         0.03         0.03         0.03         0.03         0.03         0.03         0.03         0.04 <t< td=""><td>TR-01_ap011</td><td>0.11</td><td>&lt;0.01</td><td>&lt;0.09</td><td>&lt;0.09</td><td>&gt;0.06</td><td>0.10</td><td>90.0</td><td>0.04</td><td>38.93</td><td>&lt;0.04</td><td>0.08</td><td>&lt;0.04</td><td>17.97</td><td>0.10</td><td>&lt;0.02</td><td>1.24</td><td>2.77</td><td>37.70</td><td>99.10</td></t<>	TR-01_ap011	0.11	<0.01	<0.09	<0.09	>0.06	0.10	90.0	0.04	38.93	<0.04	0.08	<0.04	17.97	0.10	<0.02	1.24	2.77	37.70	99.10
0.11         -0.01         -0.02         -0.03         -0.04         -0.03         18.07         -0.03         18.07         -0.03         18.07         -0.03         18.07         -0.03         18.07         -0.03         18.07         -0.03         18.07         -0.03         -0.03         -0.04         -0.03         -0.04         -0.03         -0.04         -0.03         -0.04         -0.03         -0.04	TR-01_ap012	0.12	<0.01	<0.09	0.10	0.07	0.11	90.0	0.04	39.01	<0.03	0.07	<0.03	18.04	90.0	<0.02	0.72	3.21	37.73	99.34
0.12         0.01         0.008         0.004         0.004         0.004         0.003         0.004         0.004         0.003         0.003         0.004         0.003         0	TR-01_ap_013	0.11	\$0.04 1	<0.09	<0.09	0.09	0.24	0.08	0.12	38.84	40:04	0.02	<0.03	18.07	0.10	<0.02	99.0	3.12	37.87	99.32
0.12         0.01         0.009         0.11         0.04 <t< td=""><td>TR-01_ap_014</td><td>0.12</td><td>&lt;0.01</td><td>&lt;0.08</td><td>&lt;0.09</td><td>&lt;0.0&gt;</td><td>60.0</td><td>0.07</td><td>0.02</td><td>38.87</td><td>40.04</td><td>0.09</td><td>&lt;0.03</td><td>18.04</td><td>0.11</td><td>&lt;0.02</td><td>0.79</td><td>3.15</td><td>37.74</td><td>99.10</td></t<>	TR-01_ap_014	0.12	<0.01	<0.08	<0.09	<0.0>	60.0	0.07	0.02	38.87	40.04	0.09	<0.03	18.04	0.11	<0.02	0.79	3.15	37.74	99.10
0.12         CLOID	TR-01_ap015	0.12	0.01	<0.09	0.10	90.0>	0.14	0.07	0.0	38.91	\$0.0 <del>\$</del>	90.0	<0.04	17.96	0.10	<0.02	0.61	3.07	37.71	98.90
0.10         0.10 <th< td=""><td>TR-01_ap_016</td><td>0.12</td><td>\$0.04 5</td><td>&lt;0.09</td><td>&lt;0.09</td><td>&lt;0.07</td><td>0.16</td><td>0.11</td><td>0.08</td><td>38.32</td><td>&lt;0.04</td><td>0.07</td><td>&lt;0.03</td><td>17.68</td><td>0.13</td><td>&lt;0.02</td><td>9. 0 24. 1</td><td>2.98</td><td>37.18</td><td>97.69</td></th<>	TR-01_ap_016	0.12	\$0.04 5	<0.09	<0.09	<0.07	0.16	0.11	0.08	38.32	<0.04	0.07	<0.03	17.68	0.13	<0.02	9. 0 24. 1	2.98	37.18	97.69
0.10         0.00 <th< td=""><td>TF 01 ap 017</td><td>0.10</td><td>10.05</td><td></td><td>\$0.09 0.09</td><td>0.0</td><td>0.35</td><td>0.10</td><td>0.21</td><td>38.73</td><td>\$0:04 \$0.04</td><td>0.06</td><td>×0.03</td><td>18.05</td><td>0.09</td><td>&lt;0.02</td><td>6.95</td><td>3.02</td><td>37.85</td><td>99.56</td></th<>	TF 01 ap 017	0.10	10.05		\$0.09 0.09	0.0	0.35	0.10	0.21	38.73	\$0:04 \$0.04	0.06	×0.03	18.05	0.09	<0.02	6.95	3.02	37.85	99.56
0.10         0.00 <th< td=""><td>TP-01 ap 019</td><td>\$ 6</td><td>5.0.5</td><td></td><td>0.50</td><td>0.03</td><td>0.0</td><td>8 6</td><td>5 5</td><td>38.70</td><td># 50.0V</td><td>0.0</td><td>50.07</td><td>17.86</td><td>0.0</td><td>50.00</td><td>2.93</td><td>\$ P</td><td>37.80</td><td>90.00</td></th<>	TP-01 ap 019	\$ 6	5.0.5		0.50	0.03	0.0	8 6	5 5	38.70	# 50.0V	0.0	50.07	17.86	0.0	50.00	2.93	\$ P	37.80	90.00
0.10         c.0.01         c.0.02         c.0.02         c.0.02         c.0.02         c.0.02         c.0.02         c.0.03         c.0.03         c.0.03         c.0.03         c.0.04         c.0.04         c.0.04         c.0.04         c.0.04         c.0.04         c.0.03         c.0.02         c.0.03         c.0.04         c.0.03         c.0.03         c.0.03         c.0.04         c.0.04 <td>TR-01 ap 020</td> <td>0.13</td> <td>×0.01</td> <td>&lt;0.08</td> <td>&lt;0.0&gt;</td> <td>90.0&gt;</td> <td>0.25</td> <td>0.05</td> <td>0.13</td> <td>38.62</td> <td>&lt;0.03</td> <td>0.06</td> <td>&lt;0.04</td> <td>17.97</td> <td>0.11</td> <td>0.02</td> <td>90</td> <td>2.70</td> <td>37.77</td> <td>98.89</td>	TR-01 ap 020	0.13	×0.01	<0.08	<0.0>	90.0>	0.25	0.05	0.13	38.62	<0.03	0.06	<0.04	17.97	0.11	0.02	90	2.70	37.77	98.89
0.10         6.010         6.020         6.010         6.020         6.020         6.010         6.020         6.020         6.010         6.020         6.020         6.010         6.020         6.020         6.010         6.010         6.020         6.020         6.011         6.010         88.34         6.004         6.005         6.012         6.020         6.011         6.010         88.84         6.004         6.004         6.012         6.020         6.010         88.84         6.004         6.004         7.734         6.010         6.002         7.734         6.010         6.002         7.734         6.010         7.734         7.734         6.010         6.002         7.734	TR-01 ap 021	0.10	<0.01	<0.09	<0.0>	<0.0>	0.11	0.05	0.07	38.86	0.04		<0.04	17.93	0.10	<0.02	0.89	2.87	37.64	98.73
0.11         0.01         0.01         0.02         0.02         0.01         0.02         0.02         0.02         0.02         0.02         0.02         0.02         0.02         0.03         0.02         0.04         0.05         0.04 <th< td=""><td>TR-01_ap_022</td><td>0.10</td><td>&lt;0.01</td><td>&lt;0.09</td><td>&lt;0.1</td><td>&lt;0.06</td><td>0.38</td><td>0.10</td><td>0.18</td><td>38.33</td><td>&lt;0.04</td><td></td><td>0.03</td><td>18.04</td><td>0.10</td><td>&lt;0.02</td><td>1.32</td><td>1.50</td><td>38.23</td><td>98.39</td></th<>	TR-01_ap_022	0.10	<0.01	<0.09	<0.1	<0.06	0.38	0.10	0.18	38.33	<0.04		0.03	18.04	0.10	<0.02	1.32	1.50	38.23	98.39
0.10         CO.01         CO.08         CO.08         0.08         38.68         O.04         CO.04         CO.04         CO.02         CO.03         CO.04         CO	TR-01_ap023	0.11	<0.01	<0.08	<0.09	0.12	0.26	0.11	0.10	38.54	0.07		0.05	17.84	0.10	<0.02	1.30	2.37	37.64	98.68
0.09 0.01 c  c  0.08 c  0.09 c  0.06 0.04 0.07 0.10   3869 c  0.04 0.05 c  0.03   17.37 0.08 c  0.02 0.05   1.05   2.83   37.66   0.10 c  0.01 c  0.09 c  0.09 c  0.09 0.04 0.04 0.05   0.04 0.05 c  0.0	TR-01_ap024	0.10	<0.01	<0.08	<0.09	>0.06	0.20	0.10	0.08	38.68	0.05		<0.04	17.94	0.07	<0.02	1.30	2.67	37.59	98.82
0.10 0.01 0.02 0.03 0.08 0.04 0.08 0.04 0.06 0.09 0.09 0.09 0.00 0.09 0.09 0.00 0	TR-01_ap025	0.09	0.01	<0.08	<0.09	>0.06	0.21	0.07	0.10	38.69	<0.04		<0.03	17.97	0.08	<0.02	1.05	2.83	37.66	98.82
0.11 <0.051 <0.068 <0.069 <0.07 <0.089 <0.07 <0.099 <0.07 <0.099 <0.07 <0.099 <0.07 <0.099 <0.07 <0.099 <0.07 <0.099 <0.07 <0.099 <0.07 <0.099 <0.07 <0.099 <0.07 <0.099 <0.07 <0.099 <0.099 <0.07 <0.099 <0.099 <0.099 <0.099 <0.099 <0.099 <0.099 <0.099 <0.099 <0.099 <0.099 <0.099 <0.099 <0.099 <0.099 <0.099 <0.099 <0.099 <0.099 <0.099 <0.099 <0.099 <0.099 <0.099 <0.099 <0.099 <0.099 <0.099 <0.099 <0.099 <0.099 <0.099 <0.099 <0.099 <0.099 <0.099 <0.099 <0.099 <0.099 <0.099 <0.099 <0.099 <0.099 <0.099 <0.099 <0.099 <0.099 <0.099 <0.099 <0.099 <0.099 <0.099 <0.099 <0.099 <0.099 <0.099 <0.099 <0.099 <0.099 <0.099 <0.099 <0.099 <0.099 <0.099 <0.099 <0.099 <0.099 <0.099 <0.099 <0.099 <0.099 <0.099 <0.099 <0.099 <0.099 <0.099 <0.099 <0.099 <0.099 <0.099 <0.099 <0.099 <0.099 <0.099 <0.099 <0.099 <0.099 <0.099 <0.099 <0.099 <0.099 <0.099 <0.099 <0.099 <0.099 <0.099 <0.099 <0.099 <0.099 <0.099 <0.099 <0.099 <0.099 <0.099 <0.099 <0.099 <0.099 <0.099 <0.099 <0.099 <0.099 <0.099 <0.099 <0.099 <0.099 <0.099 <0.099 <0.099 <0.099 <0.099 <0.099 <0.099 <0.099 <0.099 <0.099 <0.099 <0.099 <0.099 <0.099 <0.099 <0.099 <0.099 <0.099 <0.099 <0.099 <0.099 <0.099 <0.099 <0.099 <0.099 <0.099 <0.099 <0.099 <0.099 <0.099 <0.099 <0.099 <0.099 <0.099 <0.099 <0.099 <0.099 <0.099 <0.099 <0.099 <0.099 <0.099 <0.099 <0.099 <0.099 <0.099 <0.099 <0.099 <0.099 <0.099 <0.099 <0.099 <0.099 <0.099 <0.099 <0.099 <0.099 <0.099 <0.099 <0.099 <0.099 <0.099 <0.099 <0.099 <0.099 <0.099 <0.099 <0.099 <0.099 <0.099 <0.099 <0.099 <0.099 <0.099 <0.099 <0.099 <0.099 <0.099 <0.099 <0.099 <0.099 <0.099 <0.099 <0.099 <0.099 <0.099 <0.099 <0.099 <0.099 <0.099 <0.099 <0.099 <0.099 <0.099 <0.099 <0.099 <0.099 <0.099 <0.099 <0.099 <0.099 <0.099 <0.099 <0.099 <0.099 <0.099 <0.099 <0.099 <0.099 <0.099 <0.099 <0.099 <0.099 <0.099 <0.099 <0.099 <0.099 <0.099 <0.099 <0.099 <0.099 <0.099 <0.099 <0.099 <0.099 <0.099 <0.099 <0.099 <0.099 <0.099 <0.099 <0.099 <0.099 <0.099 <0.099 <0.099 <0.099 <0.099 <0.099 <0.099 <0.099 <0.099 <0.099 <0.099 <0.099 <0.099 <0.099 <0.099 <0.099 <0.	TR-01_ap026	0.10	<0.01	<0.09	<0.09	0.08	0.14	0.08	90:0	39.03	<0.04		<0.03	17.95	0.10	<0.02	0.89	3.10	37.66	99.24
0.20 0.03	TR-01_ap027	0.11	<0.01		<0.09	0.07	0.29	0.04	0.12	38.84	0.02		<0.03	17.98	0.10	<0.02	0.41	3.31	37.74	99.13
0.12 <0.01 <0.009 <0.009 <0.07 1 0.08 0.09 <0.07 0.09 0.09 38.62 <0.04 0.07 <0.03 17.88 0.09 <0.02 1.49 2.38 37.61	TR-01_ap_028	0.20	0.03		0.11	×0.06	0.24	0.13	0.12	38.67	0.04	0.08	<0.04	17.95	0.08	<0.02	1.02	2.67	37.89	99.22
0.10 <0.01 0.09 <0.02 0.07 0.17 0.08 0.07 38.87 <0.04 0.08 <0.03 17.54 0.09 <0.02 1.17 2.83 37.69   0.21 <0.01 <0.08 <0.03 0.09 <0.06 <0.02 0.07 0.07 0.08 0.00 0.05 0.05 0.05 0.05 0.04 0.04 15.64 0.04 <0.02 0.04 2.81 33.85   0.07 <0.01 <0.08 <0.09 <0.06 <0.02 0.04 0.07 0.01 39.06 <0.04 <0.04 <0.03 18.07 0.02 0.04 0.70 2.70 37.83   0.07 <0.01 <0.08 <0.09 <0.05 0.01 <0.01 38.94 <0.04 0.05 <0.03 18.02 0.04 <0.02 0.09 2.92 37.66   0.09 <0.09 2.47 37.70   0.00 <0.01 <0.09 0.09 0.07 0.03 0.05 <0.01 38.80 <0.04 0.03 <0.03 0.05 0.05 0.05 0.09 2.47 37.70   0.00 <0.01 <0.02 0.09 0.09 0.09 0.09 0.09 0.09 0.09	TR-01_ap029	0.12	<0.01	<0.09	<0.09	<0.07	0.21	0.08	0.09	38.62	<0.04	0.07	<0.03	17.88	0.09	<0.02	1.49	2.38	37.61	98.63
0.21 <0.01 <0.08 <0.06 <0.02 0.05 0.05 36.37 <0.03 0.06 0.04 15.64 0.04 <0.02 0.40 2.81 33.85 18.5 18.5 19.5 19.5 19.5 19.5 19.5 19.5 19.5 19	TR-01_ap_030	0.10	<0.01	0.09	<0.09	<0.07	0.17	0.08	0.07	38.97	40.0 <del>4</del>	0.08	<0.03	17.94	0.00	<0.02	1.17	2.83	37.69	99.28
0.07 <0.01 <0.08 <0.09 <0.06 <0.02 0.06 <0.05 0.01 39.06 <0.04 <0.03 18.07 0.02 0.04 0.70 2.70 37.83 3	TR-05_ap001	0.21	<0.01	<0.08	<0.09	>0.06	<0.02	0.05	0.02	36.37	<0.03	90.0	0.0	15.64	0.04	<0.02	0.40	2.81	33.85	89.50
0.07 <0.01 <0.08 <0.09 <0.06 0.05 0.11 <0.01 <0.01 <0.01 <0.01 <0.05 0.01 38.94 <0.04 0.06 <0.03 18.02 0.04 <0.05 0.09 0.05 0.09 2.47 37.70 1	TR-05_ap002	0.07	¢0.04	<0.08	<0.09	90.0>	<0.02	90.0	0.01	39.06	\$0.0 <del>\$</del>	0.04	<0.03	18.07	0.05	0.04	0.70	2.70	37.83	98.61
0.10 <0.01 <0.09 <0.07 <0.09 <0.07 <0.09 <0.01 <0.04 <0.03 <0.03 <0.03 <0.05 <0.09 <0.47 <0.07 <0.09 <0.04 <0.03 <0.03 <0.03 <0.05 <0.09 <0.47 <0.07 <0.09 <0.04 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0	TR-05_ap_003	0.07	\$0.04 1	<0.08	<0.09	90.0>	0.05	0.11	<0.01	38.94	×0.04	90:0	<0.03	18.02	0.04	<0.02	0.59	2.92	37.66	98.44
۱	TR-05_ap004	0.10	<0.01	<0.09		<0.07	0.03	0.05	<0.01	38.80	40.04	0.03	<0.03	17.96	0.03	0.05	0.69	2.47	37.70	97.90

Appendix C: Eastern Sunda arc apatite trace element chemistry (EMPA)

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Analysis ID	Si	A	La	Ce	PN	Fe	Mn	Mg	Ca	Sr	Na	¥	Ь	S		CI	-	) stoi.	TOTAL
TR-05_ap005	0.08	<0.01	<0.09	0.12	90:0>	<0.02	90.0	<0.01	38.67	<0.04	0.03	<0.03	17.68	0.01	0.03	0.75	2.48	37.24	97.15
TR-05_ap006	0.10	<0.01	<0.08	0.15	<0.06	0.15	0.25	0.05	38.15	0.04	0.12	<0.04	17.84	0.07	<0.02	2.06	1.46	37.66	98.11
TR-05_ap007	0.10	<0.01	<0.08	<0.09	<0.06	0.03	60:0	<0.01	38.92	<0.04	0.03	<0.03	18.01	0.03	0.07	0.97	1.95	38.00	98.20
TR-05_ap008	0.07	<0.01	<0.09	<0.09	>0.06	<0.02	0.11	<0.01	38.83	0.05	0.10	<0.03	18.03	0.07	<0.02	0.62	3.07	37.66	98.62
TR-05_ap009	0.13	<0.01	<0.09	<0.09	>0.09	<0.02	0.04	<0.01	39.01	<0.04	0.02	\$0.0 50.0	17.85	0.01	<0.02	0.27	3.07	37.47	97.88
TR-05_ap010	0.07	0.04	×0.08	<0.09 0.09	0.12	0.02	<0.03 0.09	\$0.01 50.01	39.01	<0.03	<0.02	\$ 0.03 80 80	17.92	0.03	<0.02 0.02	0.32	2.87	37.63	98.00
TP 05 38 013	90.0	5 6	60.00	0.00	0.00	0.00	9.0	0.0	30.00	40.00	0.03	30.00	17.93	0.0	20.02	5 6	- 60	00.70	40.79
TR-05 ap 013	0.10	0.00	00:00	60.0	0.00	0.04 0.02	0.08	10.0	39.00	<0.04 <0.04	50.0	\$0.03 \$0.03	18.12	>0.02	0.00	0.0	2.05	38.16	90.12
TR-05 ap 014	0.07	×0.01	60.0>	<0.09	<0.05	0.04	0.08	<0.01	39.31	<0.04	0.03	\$0.0 40.0	18.1	0.03	0.05	0.85	2.46	38.05	20:06
TR-05 ap 015	0.08	<0.01	<0.0>	<0.09	>0.06	<0.02	60:0	<0.01	38.84	<0.04	0.02	<0.03	17.97	0.03	0.07	1.05	2.36	37.68	98.18
TR-05_ap016	0.14	<0.01	<0.09	<0.09	0.10	0.02	60.0	<0.01	38.70	<0.04	0.07	0.03	17.86	0.07	<0.02	99.0	2.45	37.70	97.88
TR-05_ap017	0.10	<0.01	<0.09	<0.09	0.10	<0.02	0.11	<0.01	39.12	<0.04	0.10	<0.03	17.99	60.0	<0.02	0.65	3.00	37.79	99.04
TR-05_ap018	0.07	<0.01	0.08	<0.09	0.07	0.15	0.24	0.08	38.10	<0.03	60.0	<0.03	17.91	0.05	<0.02	2.39	1.38	37.62	98.23
TR-05_ap019	0.08	<0.01	<0.09	0.17	0.11	0.13	0.16	0.05	38.46	<0.04	0.11	×0.04	17.87	0.05	<0.02	2.42	1.15	37.77	98.52
TR-05_ap020	0.14	0.02	<0.08	<0.09	<0.0>	0.10	0.04	0.03	39.00	<0.04	0.02	<0.03	18.02	0.02	0.03	0.71	2.72	37.86	98.72
TR-05_ap021	0.10	<0.01	<0.08	0.11	<0.0>	90.0	0.10	<0.01	39.06	<0.04		<0.04	17.95	0.04	0.08	0.91	2.36	37.84	98.63
TR-05_ap022	0.07	<0.01	<0.08	<0.09	<0.0>	0.03	0.09	<0.01	39.08	0.04		0.03	18.11	0.02	0.03	99.0	2.57	37.93	98.65
TR-05_ap023	0.09	<0.01	<0.08	<0.09	0.08	<0.02	0.05	<0.01	39.09	<0.04		<0.03	18.03	0.02	0.05	0.74	2.38	37.91	98.48
TR-05_ap024	90:0	<0.01	0.10	<0.09	<0.06	0.05	0.07	<0.01	39.15	<0.04		40.0 <del>4</del>	18.13	0.02	0.02	0.57	2.47	38.07	98.74
TR-05_ap025	0.10	<0.01	0.10	0.10	0.07	0.02	0.07	<0.01	39.05	<0.04		<0.03	18.00	90.0	0.03	0.67	2.86	37.76	98.94
TR-05_ap026	0.07	<0.01	<0.09	0.11	90.0	<0.02	0.12	<0.01	39.01	<0.03		<0.03	18.04	0.05	0.05	0.52	3.13	37.69	98.93
TR-05_ap027	0.07	<0.01	<0.08	<0.09	<0.0>	0.03	0.10	<0.01	38.93	<0.04		<0.03	18.04	0.03	0.05	0.94	1.87	38.06	98.15
TR-05_ap028	0.08	<0.01	<0.08	0.10	<0.06	<0.02	0.08	<0.01	38.95	0.04		<0.03	17.88	0.10	<0.02	0.71	2.72	37.66	98.41
TR-05_ap029	0.04	<0.01	0.11	<0.09	0.09	<0.02	0.10	<0.01	38.90	0.05		\$0.0 <del>^</del>	18.02	90.0	<0.02	0.61	3.01	37.65	98.73
TR-05_ap030	0.09	<0.01	<0.09	0.12	>0.06	0.03	0.05	<0.01	39.04	<0.03		<0.03	18.05	0.04	90.0	06:0	2.41	37.93	98.76
- 1	0.02	<0.01	<0.08	<0.09	>0.06	0.16	90.0	0.10	39.37	0.04		<0.03	18.16	0.01	<0.02	0.24	3.27	37.94	99.40
- 1	0.02	<0.01	<0.09	<0.09	90:0>	0.41	0.23	0.18	38.61	0.07		40.04	18.03	0.10	<0.02	0.59	3.18	37.75	99.28
-	0.03	V0:07	<0.09	<0.09	×0.06	/1.0	40.0	cr.0	39.28	<0.03	0.03	40.05	18.30	r0.0>	<0.02	0.20	3.74	37.90	99.84
	0.04	<0.01	<0.09	<0.09	>0.06	0.26	0.21	0.11	38.96	<0.04	0.05	<0.03	18.13	0.04	<0.02	0.33	3.51	37.75	99.39
NEF-03_ap001	90.0	\$ 0.04 5	40.09 60.09	40.1	0.07	0.08	0.07	0.03	39.27	<0.04 0.04	9.04	\$ 0.03 5 5	18.17	0.02	<0.02	0.72	3.04	37.85	99.39
	40.0	0.00	60.09	60.09	80.0	0.05	90.0	50.01	39.61	40.04 40.03	0.02	\$ 50 \$ 50 \$ 50 \$ 50 \$ 50 \$ 50 \$ 50 \$ 50	18.20	10.0	×0.02	0.10	3.43	38.01	99.00
1	90:0	90.0	60:0>	<0.09	90:0>	0.37	96:0	0.07	38.16	0.04	0.10	\$0.03	18.08	0.16	<0.02	0.45	3.35	37.87	99.70
1 1	0.03	<0.01	<0.08	0.11	>0.06	0.14	0.04	0.03	39.19	<0.03	0.05	<0.03	18.07	0.08	<0.02	0.17	3.64	37.69	99.26
NEF-03_ap006	0.04	<0.01	<0.09	<0.09	>0.06	0.15	60:0	0.05	39.49	<0.04	<0.02	×0.04	18.26	<0.01	<0.02	0.37	3.53	37.94	99.92
NEF-03_ap007	0.05	0.02	<0.08	<0.09	0.10	0.04	0.08	0.03	39.48	<0.03	0.04	<0.04	18.22	<0.01	<0.02	0.49	3.20	38.01	99.75
- 1	0.04	<0.01	<0.08	<0.09	>0.06	0.25	0.18	0.12	38.87	<0.04	0.03	<0.03	18.11	0.04	<0.02	0.40	3.58	37.65	99.26
- 1	0.03	<0.01	<0.09	<0.09	0.09	0.08	80:0	0.03	39.34	<0.04	0.05	<0.03	18.18	0.04	<0.02	0.68	2.98	37.94	99.51
- 1	0.03	<0.01	<0.09	<0.09	>0.06	90.0	90.0	<0.01	39.72	<0.04	0.03	<0.03	18.25	0.03	<0.02	0.28	3.41	38.03	99.90
- 1	0.03	<0.01	<0.08	<0.09	>0.06	0.18	0.14	60.0	39.29	<0.04	0.04	<0.03	18.20	0.04	<0.02	0.32	3.54	37.89	99.75
- 1	0.03	<0.01	<0.09	<0.09	>0.06	0.14	0.11	90.0	39.39	<0.04	0.04	<0.03	18.23	0.01	<0.02	0.41	3.35	37.94	99.72
- 1	0.05	<0.01	<0.08	<0.09	>0.06	60.0	0.10	0.05	39.50	0.04	0.02	<0.03	18.29	0.02	<0.02	0.50	3.16	38.14	99.95
	0.05	×0.01	<0.09	<0.09	>0.06	0.17	0.16	0.08	39.27	<0.04	0.05	40.0 <del>4</del>	18.17	0.05	<0.02	0.51	3.38	37.89	99.78
	0.03	<0.01	<0.08	<0.09	>0.06	90.0	0.08	0.01	39.43	<0.04	0.03	<0.03	18.1	0.02	0.03	0.35	3.1	37.87	99.14
NEF-03_ap016	0.04	<0.01	<0.09	0.11	0.07	0.13	0.16	90:0	39.18	0.04	0.03	<0.03	18.10	0.02	<0.02	0.41	3.33	37.76	99.44
NEF-03_ap01/	0.03	\$0.01 0.03	×0.08	60.09	90.00	0.05	0.06	<0.01	39.33	<0.03	0.04	40.05	18.11	0.04	<0.02 0 00 0 00	0.19	3.43	37.75	99.05
	50.0	0.0	×0.08	×0.09	90.00	0.05	0.00	0.07	39.70	×0.03	0.03	50.05 0 03	18.17	0.13	×0.02 <0.02	0.35	284	38.16	99.30
NEF-03 ap 020	0.06	<0.01	<0.09	<0.09	>0.06	0.13	0.08	0.05	39.41	0.04	0.03	\$0.0 \$	18.09	0.04	0.02	0.55	3.32	37.82	99.64
	*all elements in wt %	nte in	w/ 10%	_	(														
7			? ?	_															

Appendix C: Eastern Sunda arc apatite trace element chemistry (EMPA)

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Analysis ID	Si	A	La	Ce	PN	Fe	Mn	Mg	Ca	Sr	Na	¥	Ь	S	As	CI	F	Stoi.	TOTAL
NEF-03_ap021	0.04	<0.01	<0.08	<0.09	<0.06	0.07	0.13	0.02	38.83	90.0	0.21	<0.03	17.82	0.31	<0.02	0.15	3.74	37.56	98.92
SEF-01_ap001	0.07	0.01	<0.08	0.12	0.07	<0.02	0.04	<0.01	38.98	<0.04	0.03	<0.04	17.86	0.03	<0.02	1.1	1.73	37.85	97.90
	0.07	<0.01	<0.08	<0.09	<0.06	<0.02	0.04	<0.01	39.52	<0.03	0.02	<0.03	18.13	0.03	<0.02	0.27	1.99	38.45	98.51
	0.04	<0.01	<0.08	<0.09	<0.06	<0.02	0.02	<0.01	39.83	<0.04	<0.02	<0.03	18.25	0.02	0.03	0.78	1.80	38.64	99.43
	0.00	<0.01	0.10	0.24	0.11	<0.02	0.08	<0.01	38.71	0.04	0.02	40.0 <del>4</del>	17.98	0.02	<0.02	2.27	0.20	38.32	98.17
SEF-01_ap005	0.09	0.0 %	40.08 0.08	<0.09	90.00	0.03	0.03	0.03	32.56	0.04	<0.02	0.03	14.88	0.01	0.03	0.75 1.0F	1.27	31.70	81.40
SFF-01 ap 007	0.0	0.03	×0.09	<0.09	0.00	0.10	0.03	0.06	38.68	<0.04 40.04	0.02	0.05	17.67	0.03	0.02	98	5 6	37.68	97.45
1	0.08	<0.01	<0.09	0.14	<0.07	<0.02	0.05	<0.01	39.34	<0.0>	0.02	<0.03	18.17	0.03	0.02	0.91	1.59	38.49	98.85
	0.09	<0.01	<0.08	<0.09	0.12	<0.02	<0.03	<0.01	39.19	<0.04	<0.02	<0.03	18.02	0.01	0.02	0.92	1.32	38.33	98.03
SEF-01_ap010	0.07	<0.01	0.10	<0.09	<0.0>	<0.02	<0.03	<0.01	39.24	<0.03		0.05	18.08	90.0	<0.02	0.93	2.02	38.19	98.76
SEF-01_ap011	0.00	<0.01	0.10	0.22	0.09	<0.02	0.04	<0.01	39.02	<0.04		<0.04	18.07	0.02	0.02	1.27	1.63	38.16	98.74
SEF-01_ap012	0.08	<0.01	<0.09	<0.09	0.07	0.11	0.14	0.02	38.25	<0.04		<b>&lt;0.04</b>	17.79	0.07	<0.02	4.74	0.31	37.40	60.66
- 1	0.08	<0.01	<0.09	0.18	0.07	<0.02	90.0	<0.01	39.20	<0.04	0.03	<0.04	18.07	0.03	<0.02	1.14	1.44	38.34	98.66
	0.11	<0.01	0.11	0.26	0.11	0.03	<0.03	<0.01	39.11	<0.04		<0.03	18.07	0.02	<0.02	96.0	1.86	38.21	98.83
1	0.08	<0.01	<0.09	0.10	<0.06	0.03	<0.03	<0.01	39.26	<0.04		<0.03		0.04	<0.02	0.98	1.55	38.41	98.56
- 1	0.07	<0.01	0.11	0.18	0.07	<0.02	0.04	<0.01	39.52	<0.04		<0.03		0.03	0.03	<del>2</del> .	<del>2</del> 6.	38.41	99.61
SEF-01_ap017	0.07	<0.01	<0.09	<0.09	90.0	0.03	0.05	<0.01	39.50	<0.04		<0.03		90.0	<0.02	0.88	1.77	38.53	99.15
	0.08	<0.01	<0.09	0.15	0.11	0.02	0.03	<0.01	39.46	<0.04		\$0.0 <del>4</del>		0.03	<0.02	0.76	2.14	38.20	20.66
- 1	0.08	<0.01	<0.09	0.11	0.07	0.05	0.02	<0.01	39.16	<0.04		<0.03		0.04	<0.02	1.02	1.61	38.23	98.47
_ '	90:0	<0.01	<0.09	0.17	0.10	0.05	0.08	<0.01	39.25	<0.03		<0.03		0.02	<0.02	1.68	96.0	38.54	99.10
- 1	0.09	×0.01	<0.09	<0.09	>0.06	0.03	0.05	<0.01	39.11	<0.04		<0.03		0.06	<0.02	0.67	2.65	37.77	98.43
- 1	0.09	0.07	<0.09	0.11	×0.06	<0.02	40.0	40.07 5	39.26	0.04		<0.03 6.03		0.03	<0.02	0.70	2.64	37.91	98.90
	0.00	L0.0>	60.09	60.09	0.0	<0.02	0.03	10.05	39.12	40.04	0.00	40.04	18.15	0.03	0.0 ¢	0.52	7.7.7	37.94	98.79
- 1	177.0	0.07	\$0.08 90.08	60:05	\$0.06 0.06	0.10	0.05	60.0	34.47	<0.03		<0.03		90:0	<0.02	0:50	2.33	33.60	45.78
- 1	0.06	٥.04 د و	<0.09	0.13	<0.07	0.05	0.03	<0.01 2	39.38	0.04		<0.03		0.04	<0.02	0.41	2.98	37.99	99.29
- 1	0.06	×0.01	\$0.08 90.08	0.12	\$0.06 80.06	<0.02	0.06	50.07 5	39.04	<0.04		<0.03		0.05	<0.02	0.68	2.84	37.74	98.68
TB 04 35 008	0.27	0.03	40.09 00.09	60.09	90.00	<0.02	0.05	10.0>	38.92	×0.03		\$0.03	18.08	0.02	0.02	6.59	2.64	38.15	98.96
1	0.00	0 0	0 0	0.00	8 6	0.00	3 6	20.0	2 6	+0.07		50.07		20.0	20.02	8 8	00.7	01.10	90.00
	0.03	0.0	00.00	5 6	0.03	50.0	9 6	0.0	29.02	0.00	0.0	50.03		0.00	×0.02	20.0	0.70	40.70	0 00.00
TR-04_ap010	0.10	0.01	60.09	01.10 00.05	0.0 0 08	0.02	90.0	0.14	38.67	0.04	0.08	<0.03 0.11		0.00	×0.02 ×0.02	0.52	28.5 19.0	37.58	98.95
	90:0	<0.01	<0.09	0.14	<0.0>	0.04	0.05	<0.01	39.27	<0.03	0.04	40.0×	18.14	0.02	<0.02	0.52	2.90	37.91	99.07
TR-04_ap013	90:00	<0.01	0.10	0.11	>0.06	0.05	0.05	<0.01	39.25	<0.04	0.07	<0.04		90.0	<0.02	0.57	2.89	37.95	99.26
TR-04_ap014	0.04	<0.01	<0.08	<0.09	<0.07	<0.02	0.05	<0.01	39.42	<0.04	0.03	<0.03		0.03	<0.02	08.0	2.56	38.16	99.32
Ο,	0.09	<0.01	<0.09	0.12	0.07	0.02	0.04	<0.01	39.01	<0.03	0.03	<0.04		0.03	0.02	0.56	2.53	37.63	97.98
- 1	0.10	<0.01	0.17	0.13	0.08	<0.02	<0.03	<0.01	39.22	<0.04	0.04	<0.03	17.99	0.03	<0.02	0.81	1.1	38.49	98.17
SEF-02_ap002	0.10	0.07	0.16	0.30	0.10	0.02	4 6	٥.04 ع	38.79	<0.04 0.04	0.03	\$0.03 80.03		0.03	<0.02	1.17	1.07	38.27	98.05
SEL-02_ap003	0.03	10.0	0.00	2 6	8.0	20.02	20.00	10.0	29.57	40.00	70.0	50.05		10.07	×0.02	- 6	0.0	20.10	90.33
1	0.27	0.0	0.09	50.09 0.12	×0.06 ×0.07	0.09	20.02	0.13	39.10	\$0.04 \$0.03	20.02	0.05 50.05		0.0	<0.02	0.39	2.93	37.90	98.13
1	0.12	<0.01	0.12	0.19	<0.06	0.03	0.03	<0.01	38.66	<0.03	0.04	<0.03		0.03	<0.02	1.61	0.22	38.15	96.95
SEF-02_ap007	0.10	<0.01	<0.09	0.20	0.13	<0.02	0.04	0.01	38.98	<0.03	0.02	<0.04	_	0.01	<0.02	0.58	2.41	37.61	97.89
SEF-02_ap008	0.07	<0.01	<0.09	0.10	<0.06	<0.02	0.04	<0.01	39.38	<0.04	<0.02	<0.03		<0.01	<0.02	0.39	2.80	38.02	98.95
SEF-02_ap009	0.08	<0.01	0.12	0.16	<0.0>	0.03	0.03	<0.01	39.21	<0.04	<0.02	40.0 <del>4</del>		<0.01	<0.02	09.0	1.91	38.23	98.45
- 1	0.12	<0.01	0.20	0.23	0.12	<0.02	90.0	<0.01	39.22	<0.03	0.04	<b>*</b> 0.04	17.95	0.05	0.02	0.94	1.85	38.19	99.00
SEF-02_ap011	0.09	<0.01	<0.09	0.14	0.15	<0.02	0.03	<0.01	39.45	<0.03	<0.02	<0.03	18.04	0.04	0.03	0.55	2.36	38.18	90.66
- 1	0.10	×0.01	<0.09	0.11	<0.07	<0.02	0.0	<0.01 0.03	39.16	<0.03	0.03	\$0.04 \$4.05	18.08	0.02	0.02	0.51	2.23	38.12	98.41
	0.06	٥.04 د و	<0.08	<0.09	0.07	0.03	40.0	0.01	39.23	<0.04	<0.02	<0.03	18.09	0.01	<0.02	.0. o	2.51	38.01	98.61
SEF-02_ap014	0.07	• •	<0.09	٧ (	<0.07	<0.02	<0.03	<0.01	39.19	<0.03	0.02	\$0.0 <del>8</del>	17.96	<0.01	<0.02	0.45	2.66	37.74	98.10
"all	*all elements in wt. %	nts in	Wt. %	(EMPA	Α).														

Appendix C: Eastern Sunda arc apatite trace element chemistry (EMPA)

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Analysis ID	Si	A	La	Ce	PN	Fe	Mn	Mg	Ca	Sr	Na	¥	Ь	S	As	CI	F	O stoi.	TOTAL
SEF-02_ap015	0.08	<0.01	<0.08	0.12	<0.06	<0.02	0.04	<0.01	39.32	0.04	0.03	<0.04	18.00	0.01	0.02	0.46	2.57	37.93	98.62
	0.13	<0.01	<0.08	0.27	60.0	<0.02	0.04	0.02	38.87	<0.04	<0.02	<0.04	17.94	<0.01	<0.02	1.12	1.37	38.12	96.76
	0.08	<0.01	<0.09	<0.09	>0.06	<0.02	<0.03	<0.01	39.38	<0.03	<0.02	<0.03	18.20	<0.01	<0.02	0.37	2.25	38.32	98.60
	0.10	<0.01	0.11	0.14	0.17	<0.02	0.04	<0.01	38.50	<0.03	0.04	<0.03	17.88	0.02	<0.02	1.87	0.34	38.14	97.35
	0.19	0.05	0.15	0.20	0.11	<0.02	0.05	<0.01	38.42	<0.04	0.05	40.0 <del>4</del>	17.63	0.04	<0.02	0.69	1.33	37.77	96.64
	0.12	0.04	0.12	0.25	0.11	0.02	0.05	<0.01	38.97	<0.03	0.02	<0.03	2. t	0.03	<0.02	1.09	1.68	38.07	98.48
SEF-04_ap006	0.1	0.0	60.0	0.30	0.08	60.0	0.13	0.02	38.07	40.04	0.10	\$0.03	17.80	0.05	<0.02 40.02	3.18	0.68	37.57	98.26
		0.00	60.0	0.23	2 0	20:02	0.03	0.00	38.92	40:04 40:04	0.00	50.05	18.07	0.02	20:02	0.33	7.37	38.12	99.07
	0.08	0.07	<0.08	0.25	0.09	<0.02	0.05	0.07	39.12	40.0	0.03	\$0.03 \$0.03	17.98	0.02	0.02	69.0	<u>\$</u>	38.11	98.28
1 1	0.07	<0.01	<0.09	<0.09	>0.06	0.03	0.04	<0.01	39.38	<0.04	<0.02	<0.03	18.07	0.01	0.03	0.62	2.01	38.21	98.47
SEF-04_ap011	0.08	<0.01	<0.08	<0.09	<0.0>	0.03	<0.03	<0.01	38.69	<0.03	<0.02	<0.03	17.95	0.04	<0.02	0.61	1.74	37.95	97.07
SEF-04_ap012	0.10	<0.01	<0.09	0.21	0.13	0.02	<0.03	<0.01	39.08	<0.04	<0.02	40.0 <del>4</del>	17.96	0.03	<0.02	1.12	0.83	38.43	97.91
SEF-04_ap013	0.09	<0.01	0.11	0.30	0.13	0.04	<0.03	<0.01	38.88	<0.03	<0.02	<0.03	17.93	0.03	<0.02	1.03	69:0	38.43	99.76
- 1	0.08	<0.01	<0.08	<0.09	>0.06	0.05	<0.03	<0.01	39.19	<0.04	0.02	<0.03	17.87	0.02	<0.02	0.44	5.06	37.90	97.64
SEF-04_ap015	0.81	0.29	<0.08	<0.09	>0.06	0.29	<0.03	0.07	38.40	<0.04	<0.02	<0.03	17.76	0.02	0.02	0.28	2.53	38.49	98.95
SEF-04_ap016	0.08	<0.01	<0.08	0.17	0.14	<0.02	<0.03	<0.01	39.10	<0.03	0.02	<0.03	17.99	<0.01	<0.02	0.67	1.73	38.15	98.06
SEF-04_ap017	0.12	0.01	<0.09	0.16	0.08	0.04	0.04	0.02	38.90	<0.04	0.02	<0.03	17.80	0.01	0.03	0.76	1.94	37.79	97.71
- 1	0.10	0.01	<0.09	0.12	0.10	<0.02	0.04	0.02	39.03	0.04	<0.02	<0.03	17.85	0.02	0.02	0.71	2.32	37.73	98.11
1	0.08	<0.01	<0.09	0.13	>0.06	0.02	<0.03	<0.01	39.52	<0.04	<0.02	×0.04	18.20	0.02	<0.02	0.68	2.25	38.35	99.24
	0.28	0.07	0.13	0.21	0.12	<0.02	<0.03	<0.01	39.08	<0.04	90.0	<0.03	17.97	0.03	<0.02	0.54	2.26	38.27	99.02
- 1	0.09	<0.01	<0.09	0.09	0.07	<0.02	0.08	<b>4</b> 0.04	39.32	<0.04	0.02	\$0.0 \$4	18.08	0.03	0.02	0.81	2.52	38.00	99.14
- 1	0.10	<0.01 6	<0.09	0.16	0.14	<0.02	0.04	<0.01	39.15	<0.04	<0.02	40.0 <del>4</del>	18.06	0.02	0.03	0.75	2.02	38.13	98.60
SEF-04_ap023	0.13	D: 0	BL:0	62.0	0.15	<0.02 0.02	<0.03	D. 0. 0.	39.13	<0.03	0.0	\$0.03	16.97	0.02	<0.02	0.67	C.33	37.92	99.00
1	0.07	0.0	0.00	60.05	0.0	20.02	t 40.0	0.00	30.00	40.00	20.02	8.00	0.01	20:0	20.02	0.04	7.70	30.22	90.90
SEE-04-ap 025	21.0	0.07	21.0	0.3Z	6L.0	<0.02	0.03	0.01	39.05	40.04 40.03	0.02	\$0.03	18.08	0.07	<0.02	0.87	1.41	38.24	98.07
1	0.08	×0.04	80.0>	0.14	0.13	<0.05	20.0	<0.01 40.01	39.63	< 0.04	0.03	0 O	18 16	0.03	0.00	0.57	234	38.36	99.52
1 1	0.12	<0.07	0.17	0.32	0.16	0.08	0.16	0.02	38.22	<0.04	0.13	<0.03	17.83	0.07	<0.02	3.11	0.75	37.76	98.90
TR-02_ap001	0.09	<0.01	<0.09	<0.09	0.11	<0.02	0.04	<0.01	39.40	<0.04	0.04	0.03	18.08	0.03	<0.02	0.49	2.82	37.99	99.11
- 1	0.08	<0.01	<0.08	<0.09	>0.06	<0.02	90.0	<0.01	39.50	0.05	<0.02	<0.03	17.93	0.02	0.05	0.44	2.96	37.76	98.86
	0.08	<0.01	<0.08	0.11	60.0	<0.02	0.05	<0.01	39.46	0.08	0.02	×0.04	18.18	0.03	<0.02	0.43	2.84	38.15	99.51
- 1	0.08	<0.01	<0.08	0.10	90.0	<0.02	<0.03	<0.01	39.43	0.04	0.03	<0.03	18.18	0.04	0.02	0.26	2.93	38.13	99.29
- 1	0.12	\$ 0.04 5	0.15	<0.09	0.07	<0.02	<0.03	\$0.04 5	39.51	<0.03	0.05	<0.03	18.04	90:0	0.08	0.32	2.95	38.07	99.39
TR-02_ap000	90.0	0.0	\$0.08	7.0	90.0	×0.02	\$0.03	0.0	39.19	<0.03	20.02	50.03	18.03	0.03	40:0	4 5	84.2	38.10	98.37
	0.08	0.07	<0.09	0.13	0.14	<0.02	×0.03	×0.01	39.38	40.04 40.04	0.03	×0.03	17.99	0.03	0.03	0.39	2.69	37.96	98.85
	0.72	0.35	<0.09	0.14	>0.06	69.0	<0.03	0.51	36.28	<0.04	<0.02	40.04	16.93	0.02	0.03	0.39	2.39	37.00	95.45
TR-02_ap010	0.07	0.01	<0.09	0.13	0.10	<0.02	0.03	<0.01	39.38	90.0	<0.02	<0.03	18.27	0.03	0.02	0.29	3.36	38.02	99.77
TR-02_ap011	0.09	<0.01	<0.08	0.13	>0.06	<0.02	0.03	<0.01	39.58	<0.04	<0.02	<0.04	18.05	0.03	<0.02	0.31	3.03	37.96	99.21
	0.11	0.02	<0.08	<0.09	0.07	<0.02	0.04	<0.01	39.59	90.0	0.02	0.04	18.07	0.02	<0.02	0.26	2.91	38.10	99.31
- 1	0.12	<0.01	<0.09	0.15	0.10	<0.02	<0.03	<0.01	39.52	<0.04	<0.02	<0.03	17.99	0.05	0.09	0.27	3.23	37.89	99.43
	0.09	<0.01	0.10	0.10	<0.07	0.02	0.04	<0.01	39.40	0.04	0.05	<0.03	18.18	0.03	<0.02	0.36	3.14	38.02	99.55
	0.13	<0.01	<0.09	<0.09	0.11	<0.02	<0.03	٥.04 و و	39.47	<0.04	<0.02	<0.03	18.12	0.05	0.03	0.37	2.46	38.31	99.06
TR-02_ap016	0.17	10.05	60.09	01.0	V0.07	20.02	\$0:03 \$0.03	10.05	39.43	\$0.04 0.04	20.02	\$0.03	18.13	0.07	0.05	0.27	3.03	38.18	99.30
	0.42	<0.01	60.0>	<0.09	×0.06	0.02	<0.03	<0.01	38.68	<0.03	<0.02	\$0.03 \$0.03	17.55	0.09	90:0	0.20	2.52	37.67	97.21
TR-02 ap 019	90.0	<0.01	<0.08	0.12	0.12	0.03	0.05	<0.01	39.78	0.04	0.04	<0.03	18.24	0.03	0.02	0.38	2.73	38.40	100.03
TR-02_ap020	0.16	<0.01	0.12	0.11	<0.06	0.04	0.03	0.03	39.17	<0.04	0.02	<0.03	17.84	0.02	0.11	0.27	3.31	37.59	98.82
8	0.21	<0.01	<0.08	0.16	0.10	<0.02	<0.03	<0.01	39.01	0.04	<0.02	40.0 <del>4</del>	17.79	0.07	0.04	0.36	2.45	37.86	98.07
æ*	*all elements in wt. %	ents in	wt.%	(EMPA	A).														

Appendix C: Eastern Sunda arc apatite trace element chemistry (EMPA)

10   10   10   10   10   10   10   10	1	0.00         0.00 <th< th=""><th>40.02</th><th>n   000</th><th>4.002 4.</th><th>0.38 0.33 0.34 0.027 0.027 0.027 0.055 0.040 0.056 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050</th><th>98.54 99.54 99.54 99.57 99.57 99.57 99.57 99.57 99.59 99.59 99.59 99.59 99.59 99.59 99.59 99.59 99.59 99.59 99.59</th></th<>	40.02	n   000	4.002 4.	0.38 0.33 0.34 0.027 0.027 0.027 0.055 0.040 0.056 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050	98.54 99.54 99.54 99.57 99.57 99.57 99.57 99.57 99.59 99.59 99.59 99.59 99.59 99.59 99.59 99.59 99.59 99.59 99.59
200                200                200                200               200                 200                 200                 200                 200                 200                 200                 200                 200                 200                 200                 200                  200                     200                 200                 200                  200                  200                  200                  200                  200                  200                       200                       200                       200                  200                       200                       200                       200                      200                              200                       200                       20	1.2.   1.2.	022         0102         0103         0103         0103         0104         0103         0104	40.02     <0.03       0.02     <0.03       0.02     <0.19       0.03     <0.03       0.04     <0.03       0.04     <0.04       0.04     <0.04       0.04     <0.04       0.03     <0.04       0.04     <0.04       0.03     <0.03       0.03     <0.03       0.03     <0.03       0.08     <0.03       0.09     <0.03       0.00     <0.03       0.00     <0.03       0.00     <0.03       0.00     <0.03       0.00     <0.03       0.00     <0.03       0.00     <0.03       0.00     <0.03       0.00     <0.03       0.00     <0.03       0.00     <0.03       0.00     <0.03       0.00     <0.03       0.00     <0.03       0.00     <0.03       0.00     <0.03       0.00     <0.03       0.00     <0.03       0.00     <0.03       0.00     <0.03       0.00     <0.03       0.00     <0.03       0.00     <0.03       0.00     <0.03	0.0 V	9		8. 9. 9. 9. 9. 9. 9. 9. 9. 9. 9. 9. 9. 9.
0.02         0.03         0.04         0.05         0.04         0.05         0.04         0.05         0.04         0.05         0.04         0.05         0.04         0.05 <th< td=""><td>  Maintaine   Main</td><td>0.02         0.01         0.02         <th< td=""><td>0.02 &lt;0.03 0.02 &lt;0.03 0.05 &lt;0.03 0.06 &lt;0.03 0.03 &lt;0.03 0.04 &lt;0.03 0.03 &lt;0.04 0.04 &lt;0.04 0.03 &lt;0.03 0.03 &lt;0.03 0.03 &lt;0.03 0.03 &lt;0.03 0.03 &lt;0.03 0.03 &lt;0.03 0.03 &lt;0.03</td><td></td><td></td><td></td><td>6 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9</td></th<></td></th<>	Maintaine   Main	0.02         0.01         0.02 <th< td=""><td>0.02 &lt;0.03 0.02 &lt;0.03 0.05 &lt;0.03 0.06 &lt;0.03 0.03 &lt;0.03 0.04 &lt;0.03 0.03 &lt;0.04 0.04 &lt;0.04 0.03 &lt;0.03 0.03 &lt;0.03 0.03 &lt;0.03 0.03 &lt;0.03 0.03 &lt;0.03 0.03 &lt;0.03 0.03 &lt;0.03</td><td></td><td></td><td></td><td>6 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9</td></th<>	0.02 <0.03 0.02 <0.03 0.05 <0.03 0.06 <0.03 0.03 <0.03 0.04 <0.03 0.03 <0.04 0.04 <0.04 0.03 <0.03 0.03 <0.03 0.03 <0.03 0.03 <0.03 0.03 <0.03 0.03 <0.03 0.03 <0.03				6 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9
0.02         0.02         0.02         0.03 <th< td=""><td></td><td>0.02         0.03         <th< td=""><td>0.02 &lt; 0.03   0.02 &lt; 0.03   0.04 &lt; 0.03   0.04 &lt; 0.04   0.04 &lt; 0.04   0.04 &lt; 0.04   0.04 &lt; 0.04   0.03   0.04 &lt; 0.03   0.03   0.03   0.03   0.03   0.03   0.04   0.05   0.06   0.07   0.08   0.08   0.00  </td><td></td><td>A         A</td><td></td><td>1. 69 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9</td></th<></td></th<>		0.02         0.03 <th< td=""><td>0.02 &lt; 0.03   0.02 &lt; 0.03   0.04 &lt; 0.03   0.04 &lt; 0.04   0.04 &lt; 0.04   0.04 &lt; 0.04   0.04 &lt; 0.04   0.03   0.04 &lt; 0.03   0.03   0.03   0.03   0.03   0.03   0.04   0.05   0.06   0.07   0.08   0.08   0.00  </td><td></td><td>A         A</td><td></td><td>1. 69 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9</td></th<>	0.02 < 0.03 0.02 < 0.03 0.04 < 0.03 0.04 < 0.04 0.04 < 0.04 0.04 < 0.04 0.04 < 0.04 0.03 0.04 < 0.03 0.03 0.03 0.03 0.03 0.03 0.04 0.05 0.06 0.07 0.08 0.08 0.00 		A         A		1. 69 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9
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000         010 <td>010         012<td>010         010<td>0.05 &lt; &lt;0.03</td><td></td><td></td><td></td><td>8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9</td></td></td>	010         012 <td>010         010<td>0.05 &lt; &lt;0.03</td><td></td><td></td><td></td><td>8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9</td></td>	010         010 <td>0.05 &lt; &lt;0.03</td> <td></td> <td></td> <td></td> <td>8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9</td>	0.05 < <0.03				8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9
0.00         0.10 <th< td=""><td>000         010         011</td></th<> <td>0.05         0.04         0.01         0.01         0.05         0.01         0.02         0.01         <th< td=""><td>0.03 &lt; 0.03 &lt; 0.03 &lt; 0.04 &lt; 0.05 &lt; 0.04 &lt; 0.05 &lt; 0.03 &lt; 0.</td><td></td><td></td><td></td><td>4 4 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9</td></th<></td>	000         010         011	0.05         0.04         0.01         0.01         0.05         0.01         0.02         0.01 <th< td=""><td>0.03 &lt; 0.03 &lt; 0.03 &lt; 0.04 &lt; 0.05 &lt; 0.04 &lt; 0.05 &lt; 0.03 &lt; 0.</td><td></td><td></td><td></td><td>4 4 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9</td></th<>	0.03 < 0.03 < 0.03 < 0.04 < 0.05 < 0.04 < 0.04 < 0.04 < 0.04 < 0.04 < 0.04 < 0.04 < 0.04 < 0.04 < 0.04 < 0.04 < 0.04 < 0.04 < 0.04 < 0.04 < 0.04 < 0.04 < 0.04 < 0.04 < 0.04 < 0.05 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.				4 4 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9
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000         010 <td>0.00         0.01         0.02         <th< td=""><td>006         012         &lt;0.09         0.12         &lt;0.14         &lt;0.05         &lt;0.01         &lt;0.0</td><td>0.03 &lt; 0.04 0.04 &lt; 0.04 0.03 &lt; 0.03 0.03 &lt; 0.03 0.08 &lt; 0.03 0.08 &lt; 0.03 0.00 &lt; 0.03 0.00 &lt; 0.03 0.00 &lt; 0.00 0.00 &lt; 0.00 0.00 &lt; 0.00 0.00 &lt; 0.00 0.00 &lt; 0.00 0.00 0.00 &lt; 0.00</td><td></td><td></td><td></td><td>99999999999999999999999999999999999999</td></th<></td>	0.00         0.01         0.02 <th< td=""><td>006         012         &lt;0.09         0.12         &lt;0.14         &lt;0.05         &lt;0.01         &lt;0.0</td><td>0.03 &lt; 0.04 0.04 &lt; 0.04 0.03 &lt; 0.03 0.03 &lt; 0.03 0.08 &lt; 0.03 0.08 &lt; 0.03 0.00 &lt; 0.03 0.00 &lt; 0.03 0.00 &lt; 0.00 0.00 &lt; 0.00 0.00 &lt; 0.00 0.00 &lt; 0.00 0.00 &lt; 0.00 0.00 0.00 &lt; 0.00</td><td></td><td></td><td></td><td>99999999999999999999999999999999999999</td></th<>	006         012         <0.09         0.12         <0.14         <0.05         <0.01         <0.01         <0.01         <0.01         <0.01         <0.01         <0.01         <0.01         <0.01         <0.01         <0.01         <0.01         <0.01         <0.01         <0.01         <0.01         <0.01         <0.01         <0.01         <0.01         <0.01         <0.01         <0.01         <0.01         <0.01         <0.01         <0.01         <0.01         <0.01         <0.01         <0.01         <0.01         <0.01         <0.01         <0.01         <0.01         <0.01         <0.01         <0.01         <0.01         <0.01         <0.01         <0.01         <0.01         <0.01         <0.01         <0.01         <0.01         <0.01         <0.01         <0.01         <0.01         <0.01         <0.01         <0.01         <0.01         <0.01         <0.01         <0.01         <0.01         <0.01         <0.01         <0.01         <0.01         <0.01         <0.01         <0.01         <0.01         <0.01         <0.01         <0.01         <0.01         <0.01         <0.01         <0.01         <0.01         <0.01         <0.01         <0.01         <0.01         <0.01         <0.01         <0.0	0.03 < 0.04 0.04 < 0.04 0.03 < 0.03 0.03 < 0.03 0.08 < 0.03 0.08 < 0.03 0.00 < 0.03 0.00 < 0.03 0.00 < 0.00 0.00 < 0.00 0.00 < 0.00 0.00 < 0.00 0.00 < 0.00 0.00 0.00 < 0.00				99999999999999999999999999999999999999
000         0010	040         010 <td>000         010<td>0.04 &lt; 0.04 0.03 &lt; 0.03 0.04 &lt; 0.04 0.03 &lt; 0.03 0.03 &lt; 0.03 0.00 &lt; 0.03 &lt; 0.03</td><td></td><td>6000 6000 6000 6000 6000 6000 6000 600</td><td></td><td>9.99 9.99 9.99 9.99 9.99 9.93 9.93 9.93</td></td>	000         010 <td>0.04 &lt; 0.04 0.03 &lt; 0.03 0.04 &lt; 0.04 0.03 &lt; 0.03 0.03 &lt; 0.03 0.00 &lt; 0.03 &lt; 0.03</td> <td></td> <td>6000 6000 6000 6000 6000 6000 6000 600</td> <td></td> <td>9.99 9.99 9.99 9.99 9.99 9.93 9.93 9.93</td>	0.04 < 0.04 0.03 < 0.03 0.04 < 0.04 0.03 < 0.03 0.03 < 0.03 0.00 < 0.03 < 0.03		6000 6000 6000 6000 6000 6000 6000 600		9.99 9.99 9.99 9.99 9.99 9.93 9.93 9.93
004         0104	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	004         0103         -0104         -0103         -0104         -0103         -0104         -0	0.03 <0.03 0.04 <0.04 0.03 <0.03 0.03 <0.03 0.08 <0.03		0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		7. 89 8 9 8 9 8 9 8 9 8 9 9 9 9 9 9 9 9 9
004         0104	0.000.010.	000         0104	0.04 <0.04 0.03 <0.03 0.03 <0.03 0.08 <0.03 <0.02		0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		7. 8. 9. 9. 9. 9. 9. 9. 9. 9. 9. 9. 9. 9. 9.
0.00         0.10 <th< td=""><td>0.00         0.01         0.01         0.01         0.01         0.01         0.01         0.02         <th< td=""><td>000         011         0.006         0.011         0.009         0.011         0.009         0.011         0.009         0.011         0.009         0.011         0.009         0.010         0.010         0.009         0.010         0.009         0.010         0.009         0.010         0.009         0.010         0.009         0.010         0.009         0.010         0.009         0.0</td><td>0.03 &lt; 0.03 0.03 &lt; 0.03 0.08 &lt; 0.03 &lt; 0.02 &lt; 0.03</td><td></td><td>0,000 00 00 00 00 00 00 00 00 00 00 00 0</td><td></td><td>9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9</td></th<></td></th<>	0.00         0.01         0.01         0.01         0.01         0.01         0.01         0.02 <th< td=""><td>000         011         0.006         0.011         0.009         0.011         0.009         0.011         0.009         0.011         0.009         0.011         0.009         0.010         0.010         0.009         0.010         0.009         0.010         0.009         0.010         0.009         0.010         0.009         0.010         0.009         0.010         0.009         0.0</td><td>0.03 &lt; 0.03 0.03 &lt; 0.03 0.08 &lt; 0.03 &lt; 0.02 &lt; 0.03</td><td></td><td>0,000 00 00 00 00 00 00 00 00 00 00 00 0</td><td></td><td>9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9</td></th<>	000         011         0.006         0.011         0.009         0.011         0.009         0.011         0.009         0.011         0.009         0.011         0.009         0.010         0.010         0.009         0.010         0.009         0.010         0.009         0.010         0.009         0.010         0.009         0.010         0.009         0.010         0.009         0.0	0.03 < 0.03 0.03 < 0.03 0.08 < 0.03 < 0.02 < 0.03		0,000 00 00 00 00 00 00 00 00 00 00 00 0		9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9
910         0.04         office	010         010 <td>010         0.014         0.011         0.010         0.014         0.011         0.010         0</td> <td>0.03 &lt;0.03 0.08 &lt;0.03 &lt;0.02 &lt;0.03</td> <td></td> <td>0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0</td> <td></td> <td>9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9</td>	010         0.014         0.011         0.010         0.014         0.011         0.010         0	0.03 <0.03 0.08 <0.03 <0.02 <0.03		0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0		9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9
011         0.08         office	011         010 <td>011         0.09         &lt;0.011         &lt;0.009         &lt;0.001         &lt;0.009         &lt;0.001         &lt;0.009         &lt;0.009         &lt;0.009         &lt;0.009         &lt;0.009         &lt;0.009         &lt;0.009         &lt;0.001         &lt;0.009         &lt;0.009</td> <td>0.08 &lt;0.03 &lt;0.02 &lt;0.03</td> <td></td> <td>6.02 6.02 6.02 6.02 6.02 6.02 6.02</td> <td></td> <td>99999999999999999999999999999999999999</td>	011         0.09         <0.011         <0.009         <0.001         <0.009         <0.009         <0.009         <0.009         <0.009         <0.009         <0.009         <0.009         <0.009         <0.009         <0.009         <0.009         <0.009         <0.009         <0.009         <0.009         <0.009         <0.009         <0.001         <0.009         <0.009         <0.009         <0.009         <0.009         <0.009         <0.009         <0.001         <0.009         <0.009         <0.009         <0.009         <0.009         <0.009         <0.009         <0.009         <0.009         <0.009         <0.009         <0.009         <0.009         <0.009         <0.009         <0.009         <0.009         <0.009         <0.009         <0.009         <0.009         <0.009         <0.009         <0.009         <0.009         <0.009         <0.009         <0.009         <0.009         <0.009         <0.009         <0.009         <0.009         <0.009         <0.009         <0.009         <0.009         <0.009         <0.009         <0.009         <0.009         <0.009         <0.009         <0.009         <0.009         <0.009         <0.009         <0.009         <0.009         <0.009         <0.009         <0.009         <0.009	0.08 <0.03 <0.02 <0.03		6.02 6.02 6.02 6.02 6.02 6.02 6.02		99999999999999999999999999999999999999
012         014         4011         4014         4014         4014         4014         4012         4014         4014         4012         4014         4014         4012         4014         4012         4014         4012         4014         4014         4012         4014         4012         4014         4014         4012         4014         4014         4012         4014         4014         4012         4014         4014         4012         4014         4014         4012         4014         4012         4014         4012         4014         4012         4014         4012         4014         4012         4014         4012         4014         4014         4012         4014         4014         4012         4014         4014         4012         4014         4	01         01<	012         0.04         «.0.01         «.0.02         «.0.03         «.0.03         «.0.04         «.0.01         «.0.03         «.0.03         «.0.04         «.0.01         «.0.03         «.0.03         «.0.04         «.0.02         0.02         «.0.01         9.04         «.0.04         «.0.02         «.0.04         «.0.01         «.0.03         «.0.03         «.0.03         «.0.03         «.0.03         «.0.03         «.0.03         «.0.03         «.0.03         «.0.04         «.0.04         «.0.02         «.0.04         «.0.01         «.0.03         «.0.03         «.0.03         «.0.03         «.0.04         «.0.03         «.0.03         «.0.04	<0.03		60.02 60.02 60.02 60.02 60.02		99.8 100.0 99.2 99.2 99.2 99.4 99.5
013         014 <td>11.1         11.2         40.0         <th< td=""><td>013         023         024         0209         02</td><td></td><td></td><td><ul><li>&lt;0.02</li><li>&lt;0.02</li><li>&lt;0.02</li><li>&lt;0.02</li></ul></td><td></td><td>100.0 99.2 99.3 99.1 99.2 99.4</td></th<></td>	11.1         11.2         40.0 <th< td=""><td>013         023         024         0209         02</td><td></td><td></td><td><ul><li>&lt;0.02</li><li>&lt;0.02</li><li>&lt;0.02</li><li>&lt;0.02</li></ul></td><td></td><td>100.0 99.2 99.3 99.1 99.2 99.4</td></th<>	013         023         024         0209         02			<ul><li>&lt;0.02</li><li>&lt;0.02</li><li>&lt;0.02</li><li>&lt;0.02</li></ul>		100.0 99.2 99.3 99.1 99.2 99.4
014         016         010 <td>014         014<td>014         014         0104         0104         0104         0104         0104         0104         0104         0104         0104         0104         0104         0104         0104         0104         0104         0104         0104         0104         0106         0109         0109         0106         0109         0104         0104         0102         0109         0109         0106         0104         0104         0102         0109         0106         0104         0104         0102         0104         0</td><td>&lt;0.04</td><td></td><td><ul><li>&lt;0.02</li><li>&lt;0.02</li><li>&lt;0.02</li><li>&lt;0.02</li></ul></td><td></td><td>99.2 99.3 99.2 99.4</td></td>	014         014 <td>014         014         0104         0104         0104         0104         0104         0104         0104         0104         0104         0104         0104         0104         0104         0104         0104         0104         0104         0104         0106         0109         0109         0106         0109         0104         0104         0102         0109         0109         0106         0104         0104         0102         0109         0106         0104         0104         0102         0104         0</td> <td>&lt;0.04</td> <td></td> <td><ul><li>&lt;0.02</li><li>&lt;0.02</li><li>&lt;0.02</li><li>&lt;0.02</li></ul></td> <td></td> <td>99.2 99.3 99.2 99.4</td>	014         014         0104         0104         0104         0104         0104         0104         0104         0104         0104         0104         0104         0104         0104         0104         0104         0104         0104         0104         0106         0109         0109         0106         0109         0104         0104         0102         0109         0109         0106         0104         0104         0102         0109         0106         0104         0104         0102         0104         0	<0.04		<ul><li>&lt;0.02</li><li>&lt;0.02</li><li>&lt;0.02</li><li>&lt;0.02</li></ul>		99.2 99.3 99.2 99.4
014         014 <td>914         014         015         016         016         016         016         016         016         016         016         017<td>013         0.03</td><td>&lt;0.04</td><td></td><td><ul><li>&lt;0.02</li><li>&lt;0.02</li><li>&lt;0.02</li></ul></td><td></td><td>99.1 99.1 99.2 99.4</td></td>	914         014         015         016         016         016         016         016         016         016         016         017 <td>013         0.03</td> <td>&lt;0.04</td> <td></td> <td><ul><li>&lt;0.02</li><li>&lt;0.02</li><li>&lt;0.02</li></ul></td> <td></td> <td>99.1 99.1 99.2 99.4</td>	013         0.03	<0.04		<ul><li>&lt;0.02</li><li>&lt;0.02</li><li>&lt;0.02</li></ul>		99.1 99.1 99.2 99.4
014         0.02         -0.03         -0.04         -0		014         0.04         0.02         0.09         0.04         0.05         0.04         0.05         0.04         0.05         0.04         0.05         0.09	<0.04		<0.02		99.7 99.4 99.6
014         022         009 <td>014         012<td>014         0.02         0.09         0.00</td><td>&lt;0.0&gt;</td><td></td><td>&lt;0.02</td><td></td><td>99.2 99.4</td></td>	014         012 <td>014         0.02         0.09         0.00</td> <td>&lt;0.0&gt;</td> <td></td> <td>&lt;0.02</td> <td></td> <td>99.2 99.4</td>	014         0.02         0.09         0.00	<0.0>		<0.02		99.2 99.4
014         0.28         0.04         0.28         0.04         0.02         0.04         0.02         0.04         0.02         0.04         0.02         0.09	014         014         018         019 <td>018         0.04         0.28         &lt;0.09         &lt;0.08         0.02         &lt;0.04         &lt;0.09         &lt;0.0</td> <td>&lt;0.03</td> <td></td> <td></td> <td></td> <td>99.4</td>	018         0.04         0.28         <0.09         <0.08         0.02         <0.04         <0.09         <0.09         <0.09         <0.09         <0.09         <0.09         <0.09         <0.09         <0.09         <0.09         <0.09         <0.09         <0.09         <0.09         <0.09         <0.09         <0.09         <0.09         <0.09         <0.09         <0.09         <0.09         <0.09         <0.09         <0.09         <0.09         <0.09         <0.09         <0.09         <0.09         <0.09         <0.09         <0.09         <0.09         <0.09         <0.09         <0.09         <0.09         <0.09         <0.09         <0.09         <0.09         <0.09         <0.09         <0.09         <0.09         <0.09         <0.09         <0.09         <0.09         <0.09         <0.09         <0.09         <0.09         <0.09         <0.09         <0.09         <0.09         <0.09         <0.09         <0.09         <0.09         <0.09         <0.09         <0.09         <0.09         <0.09         <0.09         <0.09         <0.09         <0.09         <0.09         <0.09         <0.09         <0.09         <0.09         <0.09         <0.09         <0.09         <0.09         <0.09         <0.0	<0.03				99.4
001         0.08         0.08         0.09	004         0.08         0.08         0.09	001         0.04         0.04         0.09	<0.03		<0.02		99.6
002         004         0.08         0.01         0.13         0.03         0.04         0.01         0.03         0.11         0.03         0.04         0.01         0.03         0.01         0.03         0.01         0.03         0.01         0.03         0.01         0.03         0.01         0.03         0.01         0.03         0.01         0.03         0.01         0.03         0.01         0.03         0.01         0.03         0.01         0.03         0.01         0.03         0.03         0.01         0.03         0.03         0.01         0.03         0.03         0.04         0.03         0.04         0.03         0.04         0.03         0.04         0.03         0.04         0.03         0.04         0.03         0.04         0.03         0.04         0.03         0.04         0.03         0.04         0.03         0.04         0.03         0.04         0.03         0.04         0.03         0.04         0.04         0.03         0.04         0.04         0.04         0.03         0.04         0.04         0.03         0.04         0.04         0.04         0.04         0.04         0.04         0.04         0.04         0.04         0.04         0.04         0	0.02         0.03         0.04         0.05 <th< td=""><td>002         0.04         0.08         0.08         0.01         0.13         0.03         0.04         0.09         0.08         0.01         0.10         0.03         0.04         0.09         0.08         0.01         0.03         0.04         0.09         0.09         0.02         0.02         0.02         0.02         0.02         0.03         0.00</td><td>&lt;0.03</td><td></td><td>&lt;0.02</td><td></td><td></td></th<>	002         0.04         0.08         0.08         0.01         0.13         0.03         0.04         0.09         0.08         0.01         0.10         0.03         0.04         0.09         0.08         0.01         0.03         0.04         0.09         0.09         0.02         0.02         0.02         0.02         0.02         0.03         0.00	<0.03		<0.02		
000         0.01         0.020         0.01         0.020         0.020         0.020         0.020         0.020         0.020         0.020         0.030         0.020         0.030         0.030         0.030         0.030         0.030         0.030         0.040         0.0	0.03         0.10 <th< td=""><td>000         0.00         0.01         0.02         0.12         0.13         0.03         9847         0.040         0.04           004         0.08         0.01         0.08         0.01         0.08         0.01         9.09         0.04         0.09         0.04         0.09         0.04         0.09         0.04         0.09         0.04         0.09         0.04         0.09         0.04         0.09         0.04         0.09         0.04         0.09         0.04         0.09         0.04         0.09         0.04         0.09         0.04         0.09         0.04         0.09         0.04         0.09         0.04         0.09         0.04         0.09         0.04         0.09         0.04         0.04         0.04         0.09         0.04         0.09         0.04         0.0</td><td>&lt;0.02 &lt;0.03</td><td></td><td>0.02</td><td></td><td>99.6</td></th<>	000         0.00         0.01         0.02         0.12         0.13         0.03         9847         0.040         0.04           004         0.08         0.01         0.08         0.01         0.08         0.01         9.09         0.04         0.09         0.04         0.09         0.04         0.09         0.04         0.09         0.04         0.09         0.04         0.09         0.04         0.09         0.04         0.09         0.04         0.09         0.04         0.09         0.04         0.09         0.04         0.09         0.04         0.09         0.04         0.09         0.04         0.09         0.04         0.09         0.04         0.09         0.04         0.09         0.04         0.04         0.04         0.09         0.04         0.09         0.04         0.0	<0.02 <0.03		0.02		99.6
004         0.08         0.01         0.04         0.08         0.01         39.55         < 0.03         < 0.03         < 0.04         < 0.03         < 0.04         < 0.03         < 0.04         < 0.03         < 0.04         < 0.03         < 0.04         < 0.03         < 0.04         < 0.03         < 0.04         < 0.04         < 0.04         < 0.04         < 0.04         < 0.04         < 0.04         < 0.04         < 0.04         < 0.04         < 0.04         < 0.04         < 0.04         < 0.04         < 0.04         < 0.04         < 0.04         < 0.04         < 0.04         < 0.04         < 0.04         < 0.04         < 0.04         < 0.04         < 0.04         < 0.04         < 0.04         < 0.04         < 0.04         < 0.04         < 0.04         < 0.04         < 0.04         < 0.04         < 0.04         < 0.04         < 0.04         < 0.04         < 0.04         < 0.04         < 0.04         < 0.04         < 0.04         < 0.04         < 0.04         < 0.04         < 0.04         < 0.04         < 0.04         < 0.04         < 0.04         < 0.04         < 0.04         < 0.04         < 0.04         < 0.04         < 0.04         < 0.04         < 0.04         < 0.04         < 0.04         < 0.04         < 0.04         < 0.04         <	0.04         0.05         0.04         0.05         0.04         0.05         0.04         0.05         0.04         0.05         0.04         0.05         0.04         0.05         0.04         0.05         0.04         0.05         0.04         0.05 <th< td=""><td>004         008         0.01  &lt;</td><td>&lt;0.03</td><td></td><td>&lt;0.02</td><td></td><td>98.8</td></th<>	004         008         0.01  <	<0.03		<0.02		98.8
005         0.03         c.0.03	0.05         0.05 <th< td=""><td>005         0.03         &lt;0.01         &lt;0.08         &lt; 0.09         &lt; 0.02         &lt; 0.01         &lt; 0.01         &lt; 0.03         &lt; 0.03</td><td>&lt;0.03</td><td>0</td><td>&lt;0.02</td><td></td><td>99.3</td></th<>	005         0.03         <0.01         <0.08         < 0.09         < 0.02         < 0.01         < 0.01         < 0.03         < 0.03         < 0.03         < 0.03         < 0.03         < 0.03         < 0.03         < 0.03         < 0.03         < 0.03         < 0.03         < 0.03         < 0.03         < 0.03         < 0.03         < 0.03         < 0.03         < 0.03         < 0.03         < 0.03         < 0.03         < 0.03         < 0.03         < 0.03         < 0.03         < 0.03         < 0.03         < 0.03         < 0.03         < 0.03         < 0.03         < 0.03         < 0.03         < 0.03         < 0.03         < 0.03         < 0.03         < 0.03         < 0.03         < 0.03         < 0.03         < 0.03         < 0.03         < 0.03         < 0.03         < 0.03         < 0.03         < 0.03         < 0.03         < 0.03         < 0.03         < 0.03         < 0.03         < 0.03         < 0.03         < 0.03         < 0.03         < 0.03         < 0.03         < 0.03         < 0.03         < 0.03         < 0.03         < 0.03         < 0.03         < 0.03         < 0.03         < 0.03         < 0.03         < 0.03         < 0.03         < 0.03         < 0.03         < 0.03         < 0.03         < 0.03         < 0.03	<0.03	0	<0.02		99.3
006         0.08         c.0.01         c.0.09         0.12         c.0.03         0.13         0.05         c.0.05         c.0.05         c.0.03         1.00         c.0.05         c.0.03         0.05         c.0.03         1.80         c.0.11         c.0.04         0.01         c.0.04         c.	046         0.04	006         0.08         0.01         0.09         0.12         0.09         0.13         0.03         39.06         0.05           007         0.02         0.029         0.04         0.08         0.04         0.01         0.01         0.09         0.01         0.01         0.02         0.029         0.04         0.08         0.04         0.01         0.04         0.02         0.04         0.05         0.04         0.04         0.05         0.04         0.04         0.05         0.04         0.05         0.04         0.05         0.04         0.05         0.04         0.05         0.04         0.05         0.04         0.05         0.04         0.05         0.04         0.05         0.04         0.05         0.04         0.05         0.04         0.05         0.04         0.05         0.04         0.06         0.04         0.04         0.04         0.05         0	<0.03		<0.02		99.4
007         0.05         0.05         0.03         0.05         0.05         0.05         0.05         0.05         0.05         0.05         0.05         0.05         0.05         0.05         0.05         0.05         0.05         0.05         0.05         0.05         0.05         0.04         0.04         0.04         0.04         0.04         0.04         0.04         0.04         0.04         0.05         0.04         0.05         0.04         0.05         0.04         0.05         0.04         0.05         0.04	007         0.05         0.02         0.09         0.02         0.03	007         0.05         0.029         -0.04         0.04         0.04         0.04         0.04         0.04         0.04         0.04         0.04         0.04         0.04         0.05         0.04 <t< td=""><td>0.06 &lt;0.03</td><td></td><td>&lt;0.02</td><td></td><td>9.66</td></t<>	0.06 <0.03		<0.02		9.66
008         0.10         <0.01         <0.01         <0.01         <0.01         <0.01         <0.01         <0.01         <0.01         <0.01         <0.01         <0.01         <0.01         <0.01         <0.01         <0.01         <0.01         <0.01         <0.01         <0.01         <0.01         <0.01         <0.01         <0.01         <0.01         <0.01         <0.01         <0.01         <0.01         <0.01         <0.01         <0.01         <0.01         <0.01         <0.01         <0.01         <0.01         <0.01         <0.01         <0.01         <0.01         <0.01         <0.01         <0.01         <0.01         <0.01         <0.02         <0.01         <0.01         <0.01         <0.02         <0.01         <0.01         <0.01         <0.01         <0.01         <0.01         <0.02         <0.01         <0.01         <0.02         <0.01         <0.01         <0.01         <0.01         <0.01         <0.01         <0.01         <0.01         <0.01         <0.01         <0.01         <0.01         <0.01         <0.01         <0.01         <0.01         <0.01         <0.01         <0.01         <0.01         <0.01         <0.01         <0.01         <0.01         <0.01         <0.02         <0	008         010         0101         0101         0101         0101         0101         0101         0101         0101         0101         0101         0101         0101         0101         0101         0101         0101         0101         0101         0101         0102         0102         0102         0102         0102         0102         0102         0101         0102         0	008         0.10         <0.01         0.12         0.24         0.16         0.15         0.14         0.04         38.24         < 0.04           009         0.01         0.01         0.01         0.02         0.02         0.01         0.04	<0.03				99.44
009         0.01         0.17         0.09         0.02         0.04         0.05         0.04         0.04         0.04         0.04         0.04         0.04         0.04         0.04         0.04         0.04         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.02         0.01         0.01         0.01         0.02         0.01         0.01         0.01         0.02         0.01         0.01         0.01         0.02         0.01         0.01         0.02         0.01         0.01         0.02         0.01         0.01         0.02         0.01         0.01         0.02         0.01         0.01         0.02         0.01         0.02         0.01         0.02         0.01         0.02         0.01         0.02         0.01         0.02         0.02         0.01         0.02         0.02         0.01         0.02         0.01         0.02         0.01         0.02         0.01         0.02         0.01         0.02         0.02         0.01         0.02         0.01         0.02         0.01         0.02	099         0101         0.14         0.099         0.104         0.14         0.14         0.14         0.14         0.14         0.14         0.14         0.14         0.14         0.14         0.14         0.14         0.104         0.14         0.14         0.14         0.104         0.14         0.14         0.104         0.14         0.104         0.14         0.10         0.14	009         0.01         0.17         <0.09         <0.09         <0.04         0.45         <0.01         39.03         <0.03           910         0.05         <0.01	40.04				98.76
910         0.05         <.010         0.05         <.010         0.05         <.010         0.05         <.010         0.05         <.010         0.05	010         0.05          0.09         0.21         0.09         0.21         0.09         0.11         0.09         0.12         0.09         0.11         0.09         0.12         0.09         0.11         0.10         0.09         0.01         0.09         0.01         0.09         0.01         0.09         0.01         0.00	910         0.05 <a.0.01< th="">         0.029         0.21         0.039         0.01         0.18         0.05         3.884         0.04           911         0.15         0.07         <a.0.09< td="">         0.12         0.03         0.01         0.09         3.884         0.04           912         0.01         <a.0.09< td=""> <a.0.09< td=""> <a.0.07< td=""> <a.0.07< td=""> <a.0.09< td=""> <a.0.07< td=""> <a.0.01< td=""> <a.0.01< td=""> <a.0.01< td=""> <a.0.02< td=""> <a.0.01< td=""> <a.0.01< td=""> <a.0.02< td=""> <a.0.02< td=""> <a.0.14< td=""> <a.0.01< td=""> <a.0.02< td=""> <a.0.02< td=""> <a.0.14< td=""> <a.0.01< td=""> <a.0.02< td=""> <a.0.02< td=""> <a.0.14< td=""> <a.0.01< td=""> <a.0.02< td=""> <a.0.02< td=""> <a.0.14< td=""> <a.0.01< td=""> <a.0.02< td=""> <a.0.02< td=""> <a.0.02< td=""> <a.0.14< td=""> <a.0.01< td=""> <a.0.02< td=""> <a.0.02< td=""> <a.0.14< td=""> <a.0.01< td=""> <a.0.02< td=""> <a.0.02< td=""> <a.0.01< td=""> <a.0.02< td=""> <a.0.02< td=""> <a.0.02< td=""> <a.0.02< td=""> <a.0.02< td=""> <a.0.02< td=""> <a.0.02< td=""> <a.0.02< td=""> <a.0.02< td=""> <a.0.02< td=""> <a.0.02< td=""> <a.0.02< td=""> <a.0.02< td=""> <a.0.02< td=""> <a.0.02< td=""> <a.0.02< td=""> <a.0.02< td=""> <a.0.02< td=""> <a.0.02< td="">         &lt;</a.0.02<></a.0.02<></a.0.02<></a.0.02<></a.0.02<></a.0.02<></a.0.02<></a.0.02<></a.0.02<></a.0.02<></a.0.02<></a.0.02<></a.0.02<></a.0.02<></a.0.02<></a.0.02<></a.0.02<></a.0.02<></a.0.02<></a.0.01<></a.0.02<></a.0.02<></a.0.01<></a.0.14<></a.0.02<></a.0.02<></a.0.01<></a.0.14<></a.0.02<></a.0.02<></a.0.02<></a.0.01<></a.0.14<></a.0.02<></a.0.02<></a.0.01<></a.0.14<></a.0.02<></a.0.02<></a.0.01<></a.0.14<></a.0.02<></a.0.02<></a.0.01<></a.0.14<></a.0.02<></a.0.02<></a.0.01<></a.0.01<></a.0.02<></a.0.01<></a.0.01<></a.0.01<></a.0.07<></a.0.09<></a.0.07<></a.0.07<></a.0.09<></a.0.09<></a.0.09<></a.0.01<>	<0.03				99.54
011         0.15         0.07	011         015         010 <td>011         0.15         0.07</td> <td>0.13 &lt;0.04</td> <td></td> <td>ô</td> <td></td> <td>99.52</td>	011         0.15         0.07	0.13 <0.04		ô		99.52
012         0.05         0.06         0.09         0.07         0.01         0.01         0.09         0.07         0.02         0.14         0.01         0.04         0.03         0.03         0.04         0.03	012         0.03	912         0.03         0.046         < 0.09         < 0.07         < 0.02         0.14         < 0.01         39.32         < 0.04           -013         0.04         0.06         < 0.09	<0.04				99.49
013         0.04         0.10         <0.08         <0.09         <0.06         <0.01         <0.01         <0.01         <0.01         <0.01         <0.01         <0.01         <0.01         <0.02         <0.11         <0.01         <0.01         <0.02         <0.01         <0.01         <0.02         <0.01         <0.01         <0.02         <0.01         <0.01         <0.02         <0.01         <0.01         <0.02         <0.01         <0.02         <0.01         <0.02         <0.02         <0.02         <0.02         <0.02         <0.03         <0.03         <0.03         <0.03         <0.03         <0.03         <0.03         <0.03         <0.03         <0.03         <0.03         <0.03         <0.03         <0.03         <0.03         <0.03         <0.03         <0.03         <0.03         <0.03         <0.03         <0.03         <0.03         <0.03         <0.03         <0.03         <0.03         <0.03         <0.03         <0.03         <0.03         <0.03         <0.03         <0.03         <0.03         <0.03         <0.03         <0.03         <0.03         <0.03         <0.03         <0.03         <0.03         <0.03         <0.03         <0.03         <0.03         <0.03         <0.03         <0.	013         0.04         0.10         color         col	013         0.04         0.10         <0.08         <0.09         <0.06         <0.01         <0.09         <0.03         <0.04         <0.01         <0.09         <0.03         <0.04         <0.03         <0.04         <0.03         <0.04         <0.03         <0.04         <0.03         <0.04         <0.03         <0.04         <0.03         <0.04         <0.03         <0.04         <0.03         <0.04         <0.03         <0.04         <0.03         <0.04         <0.03         <0.04         <0.03         <0.04         <0.03         <0.04         <0.03         <0.04         <0.03         <0.04         <0.04         <0.04         <0.04         <0.04         <0.04         <0.04         <0.04         <0.04         <0.04         <0.04         <0.04         <0.04         <0.04         <0.04         <0.04         <0.04         <0.04         <0.04         <0.04         <0.04         <0.04         <0.04         <0.04         <0.04         <0.04         <0.04         <0.04         <0.04         <0.04         <0.04         <0.04         <0.04         <0.04         <0.04         <0.04         <0.04         <0.04         <0.04         <0.04         <0.04         <0.04         <0.04         <0.04         <0.04         <0.	<0.03		<0.02		99.3
014         0.06         <0.01         <0.08         <0.11         <0.08         <0.11         <0.08         <0.11         <0.09         <0.01         <0.09         <0.01         <0.09         <0.01         <0.09         <0.01         <0.09         <0.01         <0.09         <0.01         <0.09         <0.01         <0.09         <0.01         <0.09         <0.01         <0.09         <0.01         <0.09         <0.01         <0.09         <0.01         <0.09         <0.01         <0.00         <0.01         <0.00         <0.01         <0.00         <0.01         <0.00         <0.01         <0.00         <0.01         <0.01         <0.01         <0.01         <0.01         <0.01         <0.01         <0.01         <0.01         <0.01         <0.01         <0.01         <0.01         <0.01         <0.01         <0.01         <0.01         <0.01         <0.01         <0.01         <0.01         <0.01         <0.01         <0.01         <0.01         <0.01         <0.01         <0.01         <0.01         <0.01         <0.01         <0.01         <0.01         <0.01         <0.01         <0.01         <0.01         <0.01         <0.01         <0.01         <0.01         <0.01         <0.01         <0.01         <0	014         0.06         <0.01         <0.09         <0.01         <0.09         <0.01         <0.09         <0.01         <0.09         <0.00         <0.01         <0.09         <0.00         <0.01         <0.09         <0.00         <0.00         <0.00         <0.00         <0.00         <0.00         <0.00         <0.00         <0.00         <0.00         <0.00         <0.00         <0.00         <0.00         <0.00         <0.00         <0.00         <0.00         <0.00         <0.00         <0.00         <0.00         <0.00         <0.00         <0.00         <0.00         <0.00         <0.00         <0.00         <0.00         <0.00         <0.00         <0.00         <0.00         <0.00         <0.00         <0.00         <0.00         <0.00         <0.00         <0.00         <0.00         <0.00         <0.00         <0.00         <0.00         <0.00         <0.00         <0.00         <0.00         <0.00         <0.00         <0.00         <0.00         <0.00         <0.00         <0.00         <0.00         <0.00         <0.00         <0.00         <0.00         <0.00         <0.00         <0.00         <0.00         <0.00         <0.00         <0.00         <0.00         <0.00         <0.00         <0	014         0.06         < 0.01         < 0.06         < 0.01         < 0.06         < 0.01         < 0.04         0.04         0.08         0.01         < 0.04         < 0.04         < 0.04         < 0.09         < 0.04         < 0.09         < 0.09         < 0.09         < 0.09         < 0.09         < 0.09         < 0.09         < 0.09         < 0.01         < 0.01         < 0.01         < 0.04         < 0.04         < 0.09         < 0.09         < 0.02         < 0.11         < 0.01         < 0.01         < 0.04         < 0.04         < 0.09         < 0.06         < 0.01         < 0.01         < 0.01         < 0.01         < 0.01         < 0.04         < 0.04         < 0.06         < 0.09         < 0.06         < 0.01         < 0.01         < 0.01         < 0.04         < 0.04         < 0.04         < 0.01         < 0.01         < 0.04         < 0.04         < 0.02         < 0.11         < 0.01         < 0.04         < 0.04         < 0.01         < 0.01         < 0.04         < 0.04         < 0.01         < 0.01         < 0.04         < 0.04         < 0.01         < 0.01         < 0.04         < 0.01         < 0.01         < 0.04         < 0.01         < 0.01         < 0.04         < 0.01         < 0.01         < 0.01         < 0.02	0.05 <0.03				98.6
O16         O.08         C.0.01         C.0.08         C.0.09         C.0.06         C.0.15         C.0.19         O.07         C.0.04         O.07         C.0.03         O.07         C.0.04         O.09         C.0.04	016         0.08         0.01         0.08         0.01         0.08         0.01         0.08         0.01         0.03         0.03         0.03         0.03         0.03         0.03         0.03         0.03         0.03         0.03         0.03         0.03         0.03         0.03         0.03         0.04         0.08         0.03         0.04         0.03         0.04         0.03         0.04         0.03         0.04         0.03         0.04	015         0.08         <0.01         <0.08         <0.01         <0.07         <0.04         <0.04           016         0.09         <0.04	0.05 0.03		•		966
Off         O.09         O.04         C.009         C.009         C.009         C.002         C.011         C.001         S.944         C.003         O.05         C.004         18.08         O.09         C.009         C.002         C.011         C.001         S.944         C.004         O.05         C.004         D.09         C.009         C.009         C.009         C.009         C.012         C.011         C.001         S.924         C.004         D.04         D.07         C.002         C.011         C.001         S.922         C.004         D.09         C.001         C.002         C.011         C.001         S.922         C.004         D.04         D.07         C.002         C.011         C.001         S.923         C.004         D.04         D.07         C.002         C.011         C.001         C.004         D.07         C.002         C.011         S.924         C.004         D.04         D.07         C.002	016         0.04         0.04         0.09         0.04         0.09         0.04         0.09         0.09         0.09         0.00         0.09         0.00	016         0.04         0.04	<0.03		•		. 66
017         0.06         <0.01         <0.08         <0.09         <0.06         <0.01         <0.06         <0.03         <18.19         <0.07         <0.07         <0.07         <0.04         <0.06         <0.03         <0.01         <0.07         <0.07         <0.07         <0.07         <0.07         <0.07         <0.07         <0.07         <0.07         <0.07         <0.07         <0.07         <0.07         <0.07         <0.07         <0.07         <0.07         <0.07         <0.07         <0.07         <0.07         <0.07         <0.07         <0.07         <0.07         <0.07         <0.07         <0.07         <0.07         <0.07         <0.07         <0.04         <0.07         <0.04         <0.07         <0.02         <0.01         <0.01         <0.01         <0.07         <0.02         <0.01         <0.01         <0.01         <0.01         <0.02         <0.01         <0.01         <0.02         <0.01         <0.01         <0.04         <0.01         <0.04         <0.01         <0.04         <0.01         <0.04         <0.01         <0.02         <0.01         <0.01         <0.01         <0.01         <0.01         <0.01         <0.01         <0.01         <0.01         <0.01         <0.01         <	017         0.06         <0.01         <0.08         <0.01         <0.08         <0.01         <0.08         <0.01         <0.08         <0.01         <0.08         <0.01         <0.08         <0.01         <0.01         <0.01         <0.01         <0.01         <0.01         <0.01         <0.01         <0.02         <0.13         <0.02         <0.01         <0.02         <0.01         <0.02         <0.01         <0.02         <0.01         <0.02         <0.01         <0.02         <0.02         <0.02         <0.02         <0.02         <0.02         <0.02         <0.02         <0.02         <0.02         <0.02         <0.02         <0.02         <0.02         <0.02         <0.02         <0.02         <0.03         <0.03         <0.02         <0.02         <0.03         <0.03         <0.03         <0.02         <0.02         <0.03         <0.03         <0.03         <0.03         <0.03         <0.03         <0.03         <0.03         <0.03         <0.03         <0.03         <0.03         <0.03         <0.03         <0.03         <0.03         <0.03         <0.03         <0.03         <0.03         <0.03         <0.03         <0.03         <0.03         <0.03         <0.03         <0.03         <0.03         <0	017         0.06         < 0.01         < 0.08         < 0.01         < 0.08         < 0.01         < 0.08         < 0.01         < 0.09         < 0.09         < 0.09         < 0.09         < 0.09         < 0.09         < 0.09         < 0.09         < 0.09         < 0.09         < 0.09         < 0.09         < 0.09         < 0.09         < 0.09         < 0.09         < 0.09         < 0.09         < 0.09         < 0.09         < 0.09         < 0.09         < 0.00         < 0.01         < 0.01         < 0.01         < 0.01         < 0.01         < 0.01         < 0.01         < 0.01         < 0.01         < 0.01         < 0.01         < 0.01         < 0.01         < 0.01         < 0.01         < 0.01         < 0.01         < 0.01         < 0.01         < 0.01         < 0.01         < 0.01         < 0.01         < 0.01         < 0.01         < 0.01         < 0.01         < 0.01         < 0.01         < 0.01         < 0.01         < 0.01         < 0.01         < 0.01         < 0.01         < 0.01         < 0.01         < 0.01         < 0.02         < 0.01         < 0.01         < 0.01         < 0.02         < 0.01         < 0.01         < 0.01         < 0.02         < 0.01         < 0.01         < 0.02         < 0.01         < 0.01         < 0.01	40.04		•		99.6
018         0.08         <0.01         <0.09         <0.04         <0.09         <0.04         <0.09         <0.04         <0.09         <0.04         <0.09         <0.04         <0.02         <0.01         <0.04         <0.04         <0.04         <0.04         <0.04         <0.04         <0.04         <0.04         <0.04         <0.04         <0.04         <0.04         <0.04         <0.04         <0.04         <0.04         <0.04         <0.04         <0.04         <0.04         <0.05         <0.04         <0.04         <0.04         <0.05         <0.04         <0.04         <0.04         <0.05         <0.04         <0.04         <0.04         <0.05         <0.04         <0.04         <0.05         <0.04         <0.04         <0.05         <0.04         <0.04         <0.05         <0.04         <0.05         <0.04         <0.05         <0.04         <0.05         <0.04         <0.05         <0.04         <0.04         <0.04         <0.04         <0.04         <0.04         <0.04         <0.04         <0.04         <0.04         <0.04         <0.04         <0.04         <0.04         <0.04         <0.04         <0.04         <0.04         <0.04         <0.04         <0.04         <0.04         <0.04         <0	Q18         Q18         Q18         Q18         Q18         Q18         Q19         Q19 <td>018         0.08         &lt;0.01         &lt;0.09         &lt;0.15         &lt;0.06         &lt;0.13         &lt;0.24         &lt;0.07         &lt;0.04         &lt;0.06         &lt;0.09         &lt;0.09         &lt;0.07         &lt;0.02         &lt;0.11         &lt;0.07         &lt;0.04         &lt;0.06         &lt;0.09         &lt;0.09         &lt;0.07         &lt;0.02         &lt;0.11         &lt;0.01         &lt;0.04         &lt;0</td> <td>&lt;0.03</td> <td></td> <td>&lt;0.02</td> <td></td> <td>99.0</td>	018         0.08         <0.01         <0.09         <0.15         <0.06         <0.13         <0.24         <0.07         <0.04         <0.06         <0.09         <0.09         <0.07         <0.02         <0.11         <0.07         <0.04         <0.06         <0.09         <0.09         <0.07         <0.02         <0.11         <0.01         <0.04         <0.04         <0.04         <0.04         <0.04         <0.04         <0.04         <0.04         <0.04         <0.04         <0.04         <0.04         <0.04         <0.04         <0.04         <0.04         <0.04         <0.04         <0.04         <0.04         <0.04         <0.04         <0.04         <0.04         <0.04         <0.04         <0.04         <0.04         <0.04         <0.04         <0.04         <0.04         <0.04         <0.04         <0.04         <0.04         <0.04         <0.04         <0.04         <0.04         <0.04         <0.04         <0.04         <0.04         <0.04         <0.04         <0.04         <0.04         <0.04         <0.04         <0.04         <0.04         <0.04         <0.04         <0.04         <0.04         <0.04         <0.04         <0.04         <0.04         <0.04         <0.04         <0.04         <0	<0.03		<0.02		99.0
Q19         0.04         0.06         0.09         <0.09         <0.07         <0.02         <0.01         <0.04         <0.04         <0.04         <0.04         <0.04         <0.04         <0.04         <0.04         <0.04         <0.04         <0.04         <0.04         <0.04         <0.04         <0.04         <0.04         <0.04         <0.04         <0.04         <0.04         <0.04         <0.04         <0.04         <0.04         <0.04         <0.04         <0.04         <0.04         <0.04         <0.04         <0.04         <0.04         <0.04         <0.04         <0.04         <0.04         <0.04         <0.04         <0.04         <0.04         <0.04         <0.04         <0.04         <0.04         <0.04         <0.04         <0.04         <0.04         <0.04         <0.04         <0.04         <0.04         <0.04         <0.04         <0.04         <0.04         <0.04         <0.04         <0.04         <0.04         <0.04         <0.04         <0.04         <0.04         <0.04         <0.04         <0.04         <0.04         <0.04         <0.04         <0.04         <0.04         <0.04         <0.04         <0.04         <0.04         <0.04         <0.04         <0.04         <0.04         <0.0	014         0.06         0.06         0.09         0.09         0.07         0.01         0.04         0.09         0.04         0.01         0.04         0.01         0.04         0.02         0.04         0.05         0.04	019         0.04         0.06         <0.09         <0.09         <0.07         <0.07         <0.02         0.11         <0.01         <0.04         <0.06         <0.09         <0.01         <0.02         <0.11         <0.09         <0.04         <0.04         <0.04         <0.04         <0.04         <0.04         <0.04         <0.04         <0.04         <0.04         <0.04         <0.04         <0.04         <0.04         <0.04         <0.04         <0.04         <0.04         <0.04         <0.04         <0.04         <0.04         <0.04         <0.04         <0.04         <0.04         <0.04         <0.04         <0.04         <0.04         <0.04         <0.04         <0.04         <0.04         <0.04         <0.04         <0.04         <0.04         <0.04         <0.04         <0.04         <0.04         <0.04         <0.04         <0.04         <0.04         <0.04         <0.04         <0.04         <0.04         <0.04         <0.04         <0.04         <0.04         <0.04         <0.04         <0.04         <0.04         <0.04         <0.04         <0.04         <0.04         <0.04         <0.04         <0.04         <0.04         <0.04         <0.04         <0.04         <0.04         <0.04         <0.0	40:04		•		99.
2021         0.04         0.05         0.11         0.04         0.05         0.014         0.05         0.012         0.04         0.05         0.04         0.05         0.014         0.05         0.014         0.05         0.014         0.05         0.04         0.05         0.04         0.05         0.04         0.05         0.04         0.05         0.04         0.05         0.04         0.05         0.04         0.05         0.04         0.05         0.04         0.05         0.04         0.05         0.04         0.05         0.04         0.05         0.04         0.04         0.04         0.04         0.04         0.04         0.04         0.04         0.04         0.04         0.04         0.04         0.05         0.04         0.05         0.05         0.05         0.05         0.05         0.07         0.03         18.14         0.08         0.08         0.03         0.04         0.03         18.14         0.08         0.03         0.04         0.03         18.14         0.08         0.08         0.03         0.03         0.03         0.03         0.03         0.03         0.03         0.03         0.03         0.03         0.03         0.03         0.03         0.03	0.02         0.03 <th< td=""><td>0.02         0.03         0.11         0.00         0.12         0.01         0.02         0.12         0.01         0.03         0.04         0.04         <th< td=""><td>40.00</td><td></td><td>•</td><td></td><td>99.0</td></th<></td></th<>	0.02         0.03         0.11         0.00         0.12         0.01         0.02         0.12         0.01         0.03         0.04         0.04 <th< td=""><td>40.00</td><td></td><td>•</td><td></td><td>99.0</td></th<>	40.00		•		99.0
22 0.06 <0.01 <0.08	022         0.07         0.03         0.04	022         0.06         <0.01         <0.09         <0.06         <0.01         <0.09         <0.09         <0.09         <0.01         <0.004           023         0.07         0.08         0.10         <0.06	50.03		×0.02		. a
023 0.07 0.08 0.10 <0.09 <0.06 <0.02 0.15 <0.01 39.34 <0.03 0.04 <0.03 18.14 0.08 <0.02 0.05 <0.05 38.48 0.04 <0.04 <0.03 17.89 0.08 <0.05 <0.05 <0.09 <0.07 <0.01 0.00 0.10 0.02 0.19 <0.01 38.94 <0.04 0.04 0.06 <0.03 18.09 0.00 0.00 0.10 0.02 <0.01 38.94 <0.04 0.06 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.0	024         0.07         0.08         0.10         <0.09         <0.06         <0.01         <0.01         <0.09         <0.06         <0.01         <0.01         <0.01         <0.01         <0.02         <0.01         <0.01         <0.01         <0.01         <0.01         <0.01         <0.01         <0.01         <0.01         <0.01         <0.01         <0.01         <0.01         <0.01         <0.01         <0.01         <0.01         <0.01         <0.01         <0.01         <0.01         <0.01         <0.01         <0.01         <0.01         <0.01         <0.01         <0.01         <0.01         <0.01         <0.01         <0.01         <0.01         <0.01         <0.01         <0.01         <0.01         <0.01         <0.01         <0.01         <0.01         <0.01         <0.01         <0.01         <0.01         <0.01         <0.01         <0.01         <0.01         <0.01         <0.01         <0.01         <0.01         <0.01         <0.01         <0.01         <0.01         <0.01         <0.01         <0.01         <0.01         <0.01         <0.01         <0.01         <0.01         <0.01         <0.01         <0.01         <0.01         <0.01         <0.01         <0.01         <0.01         <0.0	023         0.07         0.08         0.10         <0.09         <0.06         <0.02         0.15         <0.01         38.34         <0.03           024         0.07         <0.01	\$0.03 \$0.03		·		6
024         0.07         <0.01         <0.09         0.17         0.11         0.10         0.25         0.03         38.48         0.04         0.14         <0.03         17.99         0.08            0.25         0.03         0.04         <0.09	24         0.7         c.0.01         c.0.02         0.1         0.0         0.	024         0.07         <0.01         <0.09         0.17         0.11         0.10         0.25         0.03         38.48           025         0.03         0.04         <0.09	<0.03				99.7
_025 0.03 0.04 <0.09 <0.09 0.10 0.02 0.19 <0.01 38.94 <0.04 0.06 <0.03 18.09 0.02 ·	25         0.03         0.04         <0.09         <0.09         0.10         0.02         <0.01         0.06         <0.04         0.06         <0.03         18.09         0.02         <0.01         1.04         2.60         37.76         8           26         0.24         0.60         <0.09	025         0.03         0.04         <0.09         <0.10         0.02         0.19         <0.01         38.94            026         0.24         0.60         <0.09	0.14 <0.03		٠		99.54
026 024 0.60 <0.09 0.15 0.14 0.10 0.06 <0.01 38.60 <0.04 0.03 0.03 17.88 0.01 ·		026 0.24 0.60 <0.09 0.15 0.14 0.10 0.06 <0.01 38.60 <			٠	_	98.86
	_027 0.06 <0.01 <0.09 0.10 0.11 0.02 0.07 <0.01 39.16 <0.04 0.04 <0.03 18.11 0.03 <0.02 0.52 0.57 2.93 37.85 8 _028 0.02 <0.01 <0.09 <0.09 <0.06 <0.07 0.09 <0.01 39.43 <0.04 <0.04 <0.04 18.24 0.01 <0.02 0.07 0.02 0.40 3.01 37.99 8				<0.02		99.37
_027 0.06 <0.01 <0.09 0.10 0.11 0.02 0.07 <0.01 39.16 <0.04 0.04 <0.03 18.11 0.03 <	_028 0.02 <0.01 <0.09 <0.09 <0.06 <0.02 0.09 <0.01 39.43 <0.04 0.04 <0.04 18.24 0.01 <0.02 0.07 0.40 3.01 37.99 1	027			٠		90.06
028 0.02 <0.01 <0.09 <0.09 <0.06 <0.02 0.09 <0.01 39.43 <0.04 0.04 <0.04 18.24 0.01 <		028 0.02 <0.01 <0.09 <0.09 <0.06 <0.02 0.09 <0.01 39.43 <	•		<0.02		 99.23

Appendix C: Eastern Sunda arc apatite trace element chemistry (EMPA)

				•	•											,		,	
Analysis ID	Si	A	La	Ce	PN	Fe	Mn	Mg	Ca	Sr	Na	¥	Ь	S	As	CI	) =	stoi.	-OTAL
LB010_ap029	0.05	0.01	<0.08	<0.09	0.07	0.03	0.15	<0.01	39.16	<0.04	0.02	<0.04	18.15	0.01	<0.02	06:0	2.47	37.96	98.97
LB010_ap030	0.09	0.05	<0.08	0.10	<0.06	<0.02	0.10	<0.01	39.25	<0.04	0.05	<0.03	17.98	0.10	0.02	0.53	2.95	37.90	99.12
	0.09	0.02	<0.09	0.10	0.16	0.25	0.11	0.09	38.74	0.04	0.12	<0.04	18.14	0.07	<0.02	0.59	3.55	37.75	99.84
	0.09	<0.01	<0.09	0.13	0.09	0.27	0.08	0.14	38.91	<0.04	0.09	<0.03	17.94	0.09	<0.02	1.30	1.99	38.07	99.19
	0.08	<0.01	<0.09	0.15	0.10	0.22	0.07	0.08	38.91	<0.04	0.12	<0.03	18.14	0.08	<0.02	0.31	3.21	37.98	99.44
LB011_ap004	0.08	0.04	<0.09 0.09	0.13	0.10	0.20	0.08	0.09	38.74	0.04	0.11	\$ 0.04 \$ 2	18.01	0.11	<0.02 0.02	0.83	3.42	37.57	99.49
LB011_ap003	80.0	0.0	00.00	0.13	0.0	0.24	0.00	60.0	38.84	0.03 V 0.03	0 0	\$ S	18.00	60.0	×0.02 ×0.02	65.0	3.64	37.68	99.58
	0.10	40.0v	<0.09	<0.1	<0.0>	0.21	5 60	0.11	38.99	40.0	0.07	<0.03	18.11	0.11	<0.02	1.25	2.09	38.26	99.34
	0.09	<0.01	<0.09	0.10	0.14	0.28	0.07	0.10	38.90	0.04	0.11	<0.03	18.03	0.08	<0.02	0.33	3.85	37.59	99.72
LB011_ap009	0.09	<0.01	<0.09	0.13	0.11	0.20	0.08	0.10	39.05	0.04	0.09	0.04	17.89	0.11	<0.02	0.82	3.40	37.57	99.70
LB011_ap010	0.10	<0.01	<0.08	0.18	0.11	0.21	0.09	0.10	38.97	<0.03	0.08	<0.03	18.12	0.07	<0.02	0.55	3.41	37.86	99.85
LB011_ap011	0.10	<0.01	<0.09	0.11	<0.0>	0.18	0.05	90.0	39.07	<0.04	0.13	0.04	17.99	60.0	<0.02	0.84	3.61	37.57	99.83
	0.11	0.01	<0.08	0.18	<0.0>	0.26	60.0	0.12	39.00	<0.04	0.08	<0.03	18.07	0.08	<0.02	1.25	2.67	38.00	99.91
- 1	0.09	<0.01	<0.08	0.16	0.13	0.26	0.08	0.14	38.79	<0.04	90:0	<0.03	17.95	0.11	<0.02	1.20	2.16	38.04	99.18
	0.11	<0.01	0.11	0.11	0.14	0.23	0.09	0.09	39.09	90.0	0.09	<0.03	18.00	0.08	<0.02	0.64	3.58	37.70	100.11
- 1	0:00	<0.01	<0.08	<0.09	0.07	0.25	0.05	0.12	38.78	0.07	0.05	<0.04	17.96	0.07	<0.02	1.23	2.10	37.94	98.79
	0.09	<0.01	<0.08	0.14	0.09	0.24	0.10	0.07	38.76	0.05	0.12	<0.04	17.92	0.11	<0.02	0.36	3.48	37.58	99.13
	0.09	0.01	0.09	0.15	0.07	0.27	90.0	0.13	38.77	0.08	0.12	<0.03	17.98	0.07	<0.02	0.50	3.23	37.72	99.34
	0.09	0.01	<0.09	0.10	0.13	0.16	90:0	0.07	39.05	0.07	0.05	<0.03	18.03	0.04	<0.02	0.51	3.53	37.62	99.50
	0.09	<0.01	<0.09	0.11	0.16	0.25	0.08	0.09	39.20	<0.04	0.10	<b>*</b> 0.0 <b>*</b>	18.10	0.07	<0.02	0.24	3.69	37.87	100.06
- 1	0.10	<0.01	<0.09	0.15	0.12	0.27	0.09	0.11	39.02	0.07	0.08	×0.04	17.94	0.10	<0.02	0.92	3.25	37.68	99.92
	0.10	<0.01	0.08	0.11	<0.06	0.25	0.07	0.09	39.01	<0.04	0.07	<0.03	17.96	0.10	<0.02	1.40	2.43	37.92	99.59
- 1	90:0	<0.01	<0.09	0.18	0.14	0.22	0.10	0.09	38.90	0.04	0.12	<0.03	18.18	0.04	<0.02	0.53	3.37	37.88	99.87
	0.08	<0.01	<0.09	0.22	0.16	0.23	90:0	0.08	38.69	0.04	0.00	40.04	18.05	0.04	<0.02	0.46	3.05	37.74	98.99
	0.10	9.0	<0.08	<0.09	0.15	0.15	0.05	0.07	38.93	0.04	0.09	<0.03	17.92	0.07	<0.02	0.95	2.58	37.82	98.96
	0.10	0.01	<0.09	0.16	0.07	0.24	0.10	0.09	39.05	0.04	0.12	<0.03	17.99	0.10	<0.02	0.56	3.29	37.84	99.76
	0.09	√0.04 2	<0.08	<0.09	0.11	0.24	0.08	0.13	39.10	<0.04	0.06	\$0.0 <del>4</del>	18.08	0.07	<0.02	4	2.53	38.01	99.94
	60:0	0.05	00	<0.09	\$0.06 5	0.23	1.0	0.12	38.92	<0.04	60:0	<0.03	16.97	0.13	<0.02	T.T.	3.76	37.69	99.75
	60:0	0.05	<0.09	<0.09	<0.07	0.25	0.08	1.0	38.86	<0.04	90:0	<0.03	18.03	00	<0.02	7.37	7:27	37.88	99.41
LB011_ap029	0.08	V0.07	60.09	60.09	0.09	0.27	0.08	0.09	39.03	0.06	0.10	40.05	18.10	0.09	×0.02 ×0.02	0.35	3.14	38.03	99.51
	0.09	×0.01	<0.05	0.20	0.0	0.24	60.0	0.08	38.81	0.04	0.11	<0.03	18.10	0.09	<0.02	0.37	3.69	37.72	99.76
	0.02	0.01	<0.09	0.11	90.0	0.22	0.07	0.14	39.05	0.04	0.09	<0.03	18.13	0.12	<0.02	1.29	2.26	38.27	99.93
BHF-02_ap_001	90:0	<0.01	0.11	0.16	<0.0>	0.17	0.21	0.04	38.45	<0.04	0.12	<0.03	17.84	0.08	<0.02	1.86	1.61	37.72	98.44
BHF-02_ap002	0.03	<0.01	0.11	0.14	0.09	0.07	0.16	0.02	38.90	<0.04	0.08	<0.03	18.04	0.03	<0.02	1.42	2.17	37.83	60.66
BHF-02_ap003	90:0	<0.01	<0.09	0.24	0.11	<0.02	0.14	<0.01	38.92	<0.04	0.04	×0.04	18.14	<0.01	<0.02	0.42	2.74	37.90	98.70
BHF-02_ap004	0.04	<0.01	<0.08	0.11	>0.06	<0.02	0.20	<0.01	39.07	<0.04	0.03	<0.03	18.13	0.01	<0.02	0.42	2.48	38.04	98.53
BHF-02_ap005	0.04	0.01	0.10	0.14	0.09	0.03	0.08	<0.01	38.79	<0.04	0.07	40:0 <del>4</del>	18.02	0.02	<0.02	0.41	2.45	37.82	98.06
BHF-02_ap006	0.05	<0.01	<0.09	0.23	0.13	0.11	0:30	0.03	38.69	<0.03	90.0	40.0 <del>4</del>	17.93	0.04	<0.02	1.14	2.31	37.70	98.71
BHF-02_ap007	0.05	0.0	60.09	41.0	0.09	0.06	0.16	- 10.U2 - 30.0	39.09	0.05	0.07	40.00	18.07	0.02	×0.02	0.55	2.51	37.98	98.85
BHE-02 ap 000	0.00	0.0	00.07	2 0	2 6	2 0	2 5	5.5	38.05	t 0.07	2 .0	5 6	17.30 84.81	0.00	20.02	06.7	2.1.5	37.06	90.19
BHF-02 ap 010	0.00	0.07	<0.05	<0.09	90:0>	<0.02	<0.03	60.07	39.47	40:03 40:03	<0.02	0.0	18.19	0.02	<0.02	0.16	2.86	38.13	98.89
BHF-02 ap 011	0.02	<0.01	<0.08	0.15	0.09	0.03	0.10	<0.01	39.12	<0.04	0.07	<0.03	18.11	0.01	<0.02	0.38	2.61	38.00	98.73
BHF-02_ap012	0.05	<0.01	0.12	0.19	0.08	0.26	0.44	0.10	37.98	0.04	0.15	<0.03	17.96	0.08	<0.02	1.43	2.03	37.77	98.69
BHF-02_ap013	0.04	<0.01	<0.09	0.17	<0.06	0.04	0.16	<0.01	38.66	<0.04	90.0	<0.03	18.06	<0.01	<0.02	1.41	1.61	37.94	98.13
BHF-02_ap014	0.10	<0.01	<0.09	<0.09	>0.06	0.13	0.17	0.05	38.48	0.04	0.08	<0.04	17.85	0.11	<0.02	1.99	1.37	37.85	98.23
BHF-02_ap015	0.10	<0.01	0.11	0.20	0.15	0.14	0.31	0.04	37.93	90.0	0.17	<0.04	17.73	0.18	<0.02	1.99	1.51	37.64	98.25
BHF-02_ap016	0.05	<0.01	<0.08	•	0.07	0.07	0.21	0.02	38.62	<0.04	0.09	<0.03	18.06	0.03	<0.02	1.20	1.72	37.98	98.20
*al	*all elements in wt. %	ents in	wt.%	(EMPA	Ά).														

Appendix C: Eastern Sunda arc apatite trace element chemistry (EMPA)

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Analysis ID	Si	A	La	Ce	PN	Fe	Mn	Mg	Ca	Sr	Na	¥	Ь	S	As	CI	F (	) stoi.	TOTAL
BHF-02_ap017	0.04	<0.01	0.11	<0.09	0.08	0.07	0.27	0.01	38.68	90.0	0.11	<0.04	17.97	0.04	<0.02	0.77	2.66	37.64	98.50
BHF-02_ap018	90:0	<0.01	0.11	0.11	0.08	0.12	0.20	0.02	38.32	90.0	0.12	<0.04	17.87	0.08	<0.02	2.16	1.41	37.67	98.37
BHF-02_ap_019	0.05	<0.01	<0.09	<0.09	0.09	<0.02	0.17	<0.01	38.84	0.05	0.09	<0.03	18.03	0.03	<0.02	0.85	2.37	37.84	98.41
BHF-02_ap020	0.08	<0.01	<0.09	0.13	0.08	0.05	0.15	<0.01	38.96	<0.04	0.04	<0.03	18.16	0.02	<0.02	0.40	2.64	38.05	98.78
BHF-02_ap021	0.03	0.04	\$0.09 \$0.09	\$0.09 \$0.09	80:0	0.12	0.33	0.02	38.73	<0.04	0.10	40.04	18.09	0.07	<0.02	0.71	2.89	37.80	98.96
BHF-02 ap 023	0.00	0.0	60:0>	60.0>	0.13	0.19	0.38	0.05	38.29	50:04 0.05	0.11	\$0.03 \$0.03	18.02	0.00	<0.02	1.36	2.03	37.81	98.54
BHF-02_ap_024	0.11	<0.01	0.09	0.19	0.11	0.05	0.16	<0.01	38.98	<0.04	90:0	<0.03	18.08	0.02	<0.02	0.61	2.66	37.97	99.10
BHF-02_ap025	0.09	<0.01	<0.09	0.20	0.13	0.07	0.17	<0.01	38.83	<0.04	0.09	<0.03	18.11	0.04	<0.02	0.73	2.45	38.03	98.94
BHF-02_ap026	0.04	0.01	<0.09	<0.09	<0.0>	0.05	0.20	<0.01	39.07	0.04	0.04	<0.03	18.06	0.02	<0.02	0.92	1.62	38.21	98.28
BHF-02_ap027	0.08	<0.01	<0.08	0.14	<0.0>	0.03	0.04	<0.01	39.15	0.05	0.05	<0.03	18.09	0.03	<0.02	0.39	2.86	37.92	98.81
BHF-02_ap028	90:0	<0.01	<0.09	<0.09	<0.0>	<0.02	0.17	<0.01	39.19	<0.04	0.04	<0.03	18.06	0.01	<0.02	0.39	2.55	37.99	98.46
BHF-02_ap_029	90:0	<0.01	<0.09	0.15	0.09	0.09	0.19	0.01	38.65	<0.03	0.07	<0.03	18.08	0.04	<0.02	1.65	1.96	37.86	98.90
BHF-02_ap030	0.08	<0.01	<0.08	0.17	0.10	0.08	0.16	<0.01	38.40	<0.03	0.07	<0.04	17.93	0.02	<0.02	7.5	1.95	37.59	98.10
BHF-02_ap031	90:0	<0.01	<0.08	<0.09	<0.06	<0.02	90.0	<0.01	39.46	<0.03	<0.02	<0.03	18.14	<0.01	<0.02	0.31	2.80	38.05	98.88
BHF-02_ap032	0.07	<0.01	0.08	0.09	<0.0>	0.04	0.14	<0.01	39.16	<0.04	0.05	<0.03	18.13	0.02	<0.02	0.54	2.50	38.09	98.91
BHF-02_ap_033	90:0	<0.01	<0.08	0.11	0.13	0.10	0.26	0.03	38.56	<0.04	0.09	<0.03	18.02	0.03	<0.02	1.08	2.85	37.54	98.86
BHF-03_ap001	0.05	<0.01	<0.08	<0.09	0.07	0.05	0.41	<0.01	38.98	<0.04	0.04	<0.03	18.15	0.01	<0.02	0.32	3.11	37.87	99.05
BHF-03_ap_002	0.04	<0.01	<0.09	0.10	0.10	0.09	0.14	0.01	38.99	0.04	0.07	×0.04	18.11	0.02	<0.02	0.32	3.47	37.63	99.15
BHF-03_ap003	<0.01	<0.01	<0.09	<0.09	0.14	<0.02	<0.03	<0.01	39.42	<0.03	90:0	<0.03	18.19	0.02	<0.02	0.08	3.42	37.86	99.19
BHF-03_ap004	0.08	<0.01	<0.08	0.17	0.12	<0.02	0.19	<0.01	38.89	<0.03	90.0	×0.04	18.11	0.02	<0.02	09:0	2.63	37.91	98.76
BHF-03_ap_005	0.05	<0.01	<0.09	0.20	0.11	0.14	0.55	0.04	38.13	<0.03	0.11	<0.04	17.99	90.0	<0.02	1.42	2.29	37.66	98.76
BHF-03_ap_006	0.03	<0.01	<0.09	0.18	0.13	0.09	0.47	<0.01	38.75	90.0	0.07	<0.03	18.04	0.04	<0.02	0.35	3.29	37.66	99.15
BHF-03_ap007	0.03	<0.01	<0.08	<0.09	90:0	<0.02	0.35	<0.01	38.88	<0.04	0.05	×0.04	18.13	0.01	<0.02	0.19	3.08	37.78	98.57
BHF-03_ap_008	0.02	<0.01	<0.08	<0.09	0.07	0.03	<0.03	<0.01	39.54	<0.04	<0.02	<0.03	18.25	0.01	<0.02	90.0	3.30	38.03	99.33
BHF-03_ap_009	0.04	<0.01	<0.08	<0.09	0.11	<0.02	<0.03	<0.01	39.50	<0.04	<0.02	<0.03	18.19	<0.01	<0.02	0.04	3.24	37.97	99.10
BHF-03_ap_010	0.05	<0.01	<0.09	<0.09	<0.06	0.20	0.32	0.04	38.37	0.05	0.12	<0.03	17.93	90.0	<0.02	1.71	1.30	37.95	98.10
BHF-03_ap011	0.04	<0.01	<0.08	0.10	0.08	90.0	0.21	<0.01	39.18	<0.04	0.03	<0.03	18.22	0.02	<0.02	0.20	3.38	37.92	99.44
BHF-03_ap012	0.05	<0.01	<0.08	<0.09	0.09	0.04	90:0	<0.01	39.34	<0.04	0.02	×0.04	18.27	<0.01	<0.02	0.12	3.36	37.99	99.35
BHF-03_ap013	0.05	<0.01	<0.08	<0.09	<0.0>	0.02	0.10	0.01	39.07	0.04	0.02	<0.03	18.13	0.02	0.04	0.17	3.47	37.70	98.90
BHF-03_ap014	0.02	<0.01	<0.08	<0.09	0.15	0.05	0.24	<0.01	39.04	<0.04	0.10	<0.03	18.12	0.03	<0.02	0.25	3.02	37.90	98.92
BHF-03_ap_015	0.03	0.0√ 2	<0.08	<0.09	×0.06	0.05	0.18	6.04 6.04	39.08	<0.04	0.03	<0.03	18.22	0.01	0.03	0.18	3.29	37.87	98.97
BHF-03_ap_016	9.0	0.00	80:09	0.10	5 6	<0.02	0.03	0.00	39.23	\$0.03	0.03	40.05	2 6 4	0.02	<0.02	5.0	 	38.01	10.88
BHE-03_ap_017	10:0	0.0	00:00	90.09	90.00	0.03	0.00	10.0	38.40	\$0.04 80.0	0.00	\$ C	17 03	0.0	×0.02	1 47	1.57	37.01	90.0Z
BHF-03 ap 019	8.0	5 0	00.0	800	90.00	0.15	0.05	0.07	30.53	×0.04	200	50.05	18 17	000	20.0	71.0	3.46	37.90	99.41
BHF-03 ap 020	0.0	<0.07	0.09	0.10	0.08	0.07	0.38	0.02	38.16	0.04	0.13	40.0v	17.96	0.05	0.02	2.20	1.57	37.64	98.56
BHF-03_ap_021	0.04	<0.01	0.15	0.30	0.14	0.14	0.42	0.03	37.69	<0.04	0.20	<0.03	17.71	90.0	<0.02	2.10	1.80	37.25	98.09
BHF-03_ap022	0.02	<0.01	<0.09	0.21	0.14	0.56	0.71	0.20	37.16	90.0	0.15	<0.03	17.98	90.0	<0.02	2.21	1.55	37.69	98.73
BHF-03_ap023	0.02	<0.01	<0.08	<0.09	<0.06	0.04	0.21	<0.01	39.19	<0.04	<0.02	<0.03	18.03	0.01	<0.02	0.51	3.32	37.56	98.90
BHF-03_ap_024	0.07	<0.01	<0.09	<0.09	0.07	0.12	0.21	<0.01	38.91	<0.03	0.07	<0.03	18.18	0.03	<0.02	0.31	2.90	37.98	98.85
GBF-03_ap_001	0.03	<0.01	<0.09	<0.09	<0.06	0.04	90:0	<0.01	39.32	<0.04	0.05	<0.04	18.22	0.01	<0.02	0.80	2.74	38.00	99.27
GBF-03_ap002	<0.01	<0.01	<0.08	<0.09	<0.06	90.0	90.0	<0.01	39.15	<0.04	0.03	<0.04	18.29	0.01	<0.02	09.0	3.00	37.94	99.14
GBF-03_ap003	0.02	<0.01	<0.09	<0.09	<0.0>	0.07	0.04	0.01	39.14	<0.04	0.04	<0.03	18.17	0.01	<0.02	0.70	2.97	37.79	98.97
GBF-03_ap_004	0.03	<0.01	<0.09	0.11	0.10	0.08	0.08	0.01	39.14	<0.04	0.03	40.0 <del>4</del>	18.20	0.02	<0.02	0.58	3.04	37.86	99.25
GBF-03_ap_005	<0.01	<0.01	<0.08	<0.09	0.07	90:0	90.0	<0.01	39.23	<0.04	<0.02	<0.03	18.19	0.01	<0.02	0.63	3.17	37.76	99.18
GBF-03_ap_006	0.02	<0.01	<0.09	<0.09	>0.06	0.17	0.16	0.04	38.74	<0.03	0.03	<0.03	18.25	0.02	<0.02	0.79	2.80	37.87	98.89
GBF-03_ap_007	0.01	0.0√ 2	<0.08	<0.09	0.09	0.03	0.06	6.04 6.04	39.09	<0.04	0.04	<0.03	18.14	0.02	<0.02	0.66	2.84	37.80	98.79
GBF-03_ap_008	0.02	40.01	<0.09	<0.09	×0.06	0.05	40.0	<0.01	39.23	<0.04	0.02	<0.03	18.14	<0.01	0.02	6.54	3.16	37.71	98.92
GBF-03_ap_009	0.05	0.04	<0.09		0.0	0.09	50:O	0.05	39.08	<0.04	<0.02	<0.03	18.17	0.02	<0.02	D.61	2.83	37.88	98.87
rai	*all elements in wt. %	ents in	. wt. %	, (EMP	٦A).														

Appendix C: Eastern Sunda arc apatite trace element chemistry (EMPA)

100,   100,																		-		
	Analysis ID	Si	A	La	Ce	ΡN	Fe	Mn	Mg	Ca	Sr	Na	¥	۵	S	As	C	ш	O stoi.	TOTAL
1	GBF-03_ap010	0.02	<0.01	<0.08	<0.09	0.07	60:0	0.09	0.02	39.15	<0.03	0.05	<0.03	18.23	0.02	<0.02	0.45	3.22	37.88	99.30
	GBF-03_ap_011	0.01	<0.01	<0.08	0.09	0.11	90.0	90.0	<0.01	39.21	<0.04	0.04	<0.03	18.14	0.02	0.02	0.71	2.73	37.90	99.08
	GBF-03_ap012	0.02	<0.01	•	<0.0>	<0.06	0.07	0.05	0.01	39.06	<0.04	0.02	×0.04	18.14	0.01	<0.02	0.54	2.99	37.74	98.66
10.00   0.10	JEM-01_ap001	0.03	0.03	•	<0.09	<0.06	0.04	<0.03	<0.01	39.18	<0.04	0.04	<0.03	18.06	0.01	<0.02	0.12	3.81	37.46	98.79
1	JER-01_ap001	0.05	<0.01	<0.09	<0.09	<0.06	0.28	0.18	0.10	38.30	0.08	0.07	<0.03	17.79	0.07	<0.02	2.01	0.88	37.87	97.68
Column   C	JER-01_ap002	0.03	<0.01	<0.08	<0.09	>0.06	<0.02	0.03	<0.01	39.47	<0.04	<0.02	<0.03	18.23	<0.01	0.04	0.05	3.02	38.09	98.96
1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,	JER-01_ap003	0.03	<0.01	<0.09	0.17	<0.07	<0.02	0.07	0.01	39.12	<0.04	<0.02	\$0.0	18.08	0.02	0.03	0.20	2.35	38.06	98.14
0.00         4.00 <th< td=""><td>JER-01_ap004</td><td>0.02</td><td>&lt;0.01</td><td>&lt;0.08</td><td>0.12</td><td>0.08</td><td>0.10</td><td>0.15</td><td>&lt;0.01</td><td>39.16</td><td>0.05</td><td>&lt;0.02</td><td>&lt;0.03</td><td>18.08</td><td>&lt;0.01</td><td>&lt;0.02</td><td>0.40</td><td>1.71</td><td>38.33</td><td>98.19</td></th<>	JER-01_ap004	0.02	<0.01	<0.08	0.12	0.08	0.10	0.15	<0.01	39.16	0.05	<0.02	<0.03	18.08	<0.01	<0.02	0.40	1.71	38.33	98.19
Column   C	JER-01_ap005	0.04	40.01	<0.09	40:09 60:09	90.09	<0.02	0.03	<0.01	39.61	<0.03	<0.02	<0.03	18.17	0.01	<0.02 6 8	0.08	3.14	38.02	99.11
Column   C	JEK-01_ap006	0.08	0.0	60:09	<0.09	90.08	97.0	90.0	0.1	38.37	0.04	11.0	\$0.03	11.11	0.16	×0.02	2.19	0.76	38.01	98.01
CODE         CODE <th< td=""><td>JER-01_ap_00/</td><td># 60 60 60 60 60 60 60 60 60 60 60 60 60 6</td><td>0.00</td><td>00:00</td><td>- 00</td><td>0.00</td><td>0.03</td><td>9 6</td><td>0.00</td><td>30.29</td><td>40.0</td><td>20.02</td><td>50.03</td><td>- 6. - 6.</td><td>0.0</td><td>V0.02</td><td>0.32</td><td>2 80</td><td>38.14</td><td>90.40</td></th<>	JER-01_ap_00/	# 60 60 60 60 60 60 60 60 60 60 60 60 60 6	0.00	00:00	- 00	0.00	0.03	9 6	0.00	30.29	40.0	20.02	50.03	- 6. - 6.	0.0	V0.02	0.32	2 80	38.14	90.40
	JER-01 ap 009	20.0	0.0	80.07	00.00	90.0	0.02	9 0	5 0	30.00	0.07	20.02	8.0	18 17	20.0	20.02	38	90.4	28 6	98.98
0.00         0.00 <th< td=""><td>JER-01 ap 010</td><td>0.00</td><td>0.00</td><td>0.12</td><td>&lt;0.09</td><td>%0.0° %0.0°</td><td>&lt;0.02</td><td>40.03 40.03</td><td>0.07</td><td>39.76</td><td>&lt;0.03 40.04</td><td>&lt;0.02</td><td>×0.03</td><td>18.22</td><td>0.07</td><td>&lt;0.02</td><td>0.12</td><td>2.80</td><td>38.31</td><td>99.38</td></th<>	JER-01 ap 010	0.00	0.00	0.12	<0.09	%0.0° %0.0°	<0.02	40.03 40.03	0.07	39.76	<0.03 40.04	<0.02	×0.03	18.22	0.07	<0.02	0.12	2.80	38.31	99.38
0.00         0.00 <t< td=""><td>JER-01 ap 011</td><td>&lt;0.01</td><td>&lt;0.01</td><td>&lt;0.08</td><td>&lt;0.0&gt;</td><td>&lt;0.06</td><td>&lt;0.02</td><td>0.03</td><td>&lt;0.01</td><td>39.62</td><td>&lt;0.04</td><td>&lt;0.02</td><td>40.0<del>×</del></td><td>18.33</td><td>&lt;0.01</td><td>&lt;0.02</td><td>0.02</td><td>2.94</td><td>38.28</td><td>99.21</td></t<>	JER-01 ap 011	<0.01	<0.01	<0.08	<0.0>	<0.06	<0.02	0.03	<0.01	39.62	<0.04	<0.02	40.0 <del>×</del>	18.33	<0.01	<0.02	0.02	2.94	38.28	99.21
0.00         0.01         0.02 <t< td=""><td>JER-01_ap012</td><td>0.02</td><td>&lt;0.01</td><td>&lt;0.08</td><td>&lt;0.09</td><td>0.09</td><td>0.02</td><td>0.05</td><td>&lt;0.01</td><td>39.23</td><td>&lt;0.04</td><td>&lt;0.02</td><td>&lt;0.03</td><td>18.18</td><td>0.01</td><td>&lt;0.02</td><td>0.28</td><td>2.40</td><td>38.14</td><td>98.41</td></t<>	JER-01_ap012	0.02	<0.01	<0.08	<0.09	0.09	0.02	0.05	<0.01	39.23	<0.04	<0.02	<0.03	18.18	0.01	<0.02	0.28	2.40	38.14	98.41
0.0         4.00         4.00         4.00         4.00         17.8         0.00         4.00         0.00         4.00         0.00         4.00	JER-01_ap_013	0.03	<0.01	<0.08	<0.09	90.0	0.04	0.04	0.01	39.43	<0.04	<0.02	<0.03	18.15	0.01	0.02	0.23	2.78	38.08	98.88
0.00         0.01         0.01         0.02         0.01         0.02         0.02         0.02         0.02         0.03 <th< td=""><td>JER-01_ap014</td><td>0.05</td><td>&lt;0.01</td><td>&lt;0.08</td><td>0.10</td><td>&lt;0.06</td><td>0.27</td><td>0.17</td><td>0.11</td><td>38.37</td><td>&lt;0.04</td><td>0.09</td><td>&lt;0.03</td><td>17.88</td><td>0.07</td><td>&lt;0.02</td><td>2.04</td><td>0.87</td><td>38.02</td><td>98.04</td></th<>	JER-01_ap014	0.05	<0.01	<0.08	0.10	<0.06	0.27	0.17	0.11	38.37	<0.04	0.09	<0.03	17.88	0.07	<0.02	2.04	0.87	38.02	98.04
0.02         0.01         0.02 <th< td=""><td>JER-01_ap015</td><td>90.0</td><td>&lt;0.01</td><td>&lt;0.09</td><td>&lt;0.09</td><td>0.11</td><td>0.27</td><td>0.15</td><td>0.11</td><td>38.34</td><td>&lt;0.04</td><td>0.07</td><td>40.0v</td><td>17.94</td><td>0.08</td><td>&lt;0.02</td><td>2.10</td><td>98.0</td><td>38.08</td><td>98.17</td></th<>	JER-01_ap015	90.0	<0.01	<0.09	<0.09	0.11	0.27	0.15	0.11	38.34	<0.04	0.07	40.0v	17.94	0.08	<0.02	2.10	98.0	38.08	98.17
0.008         cd01         cd08         cd09         cd08         cd08         cd08         cd09         <	JER-01_ap_016	0.02	<0.01	<0.09	<0.09	0.07	<0.02	0.12	<0.01	39.25	<0.04	<0.02	<0.04	18.21	<0.01	<0.02	0.30	2.03	38.34	98.33
9         0.00         4	JER-01_ap017	0.02	<0.01	<0.08	<0.09	<0.07	0.04	0.14	<0.01	39.11	<0.04	0.02	<0.03	18.15	<0.01	<0.02	0.20	2.10	38.25	98.03
1	JER-01_ap018	0.08	<0.01	<0.08	<0.0>	>0.06	0.27	0.16	0.11	38.20	0.04	0.10	<0.03	17.88	0.12	<0.02	2.11	0.91	38.01	98.01
1	JER-01_ap019	0.03	<0.01	<0.09	<0.09	<0.0>	<0.02	0.03	<0.01	39.53	<0.04		<0.03	18.20	0.01	<0.02	0.07	3.12	38.00	98.99
1	JER-01_ap020	0.02	<0.01	<0.09	<0.09	>0.06	0.25	0.17	0.10	38.30	0.08		0.03	17.89	90.0	<0.02	2.04	0.92	37.96	97.91
2         0.05         0.01         0.02         0.03         0.05         0.	JER-01_ap021	0.02	<0.01	<0.08	0.15	>0.06	90.0	0.10	<0.01	39.12	<0.04		<0.03	18.09	<0.01	<0.02	0.39	1.89	38.24	98.08
3         0.03         0.	JER-01_ap022	0.05	<0.01	<0.09	<0.09	>0.06	0.24	0.17	0.12	38.31	<0.04		<0.03	17.87	90.0	<0.02	2.07	1.08	37.83	97.85
0.04         0.01         0.04         0.01         0.04         0.01         0.02         0.03 <th< td=""><td>JER-01_ap_023</td><td>0.03</td><td>×0.01</td><td>&lt;0.09</td><td>&lt;0.09</td><td>&gt;0.06</td><td>&lt;0.02</td><td>&lt;0.03</td><td>&lt;0.01</td><td>39.33</td><td>&lt;0.03</td><td></td><td>&lt;0.03</td><td>18.17</td><td>0.01</td><td>&lt;0.02</td><td>0.10</td><td>2.85</td><td>38.02</td><td>98.53</td></th<>	JER-01_ap_023	0.03	×0.01	<0.09	<0.09	>0.06	<0.02	<0.03	<0.01	39.33	<0.03		<0.03	18.17	0.01	<0.02	0.10	2.85	38.02	98.53
0.05         -0.01         -0.02         -0.04         -0.02         -0.04         -0.02         -0.04         -0.02         -0.04         -0.02         -0.04         -0.02         -0.04         -0.02         -0.04         -0.02         -0.04         -0.02         -0.04         -0.02         -0.04         -0.02         -0.04         -0.02         -0.04	LB002_ap001	0.04	40.04 5	<0.08	0.15	<0.07	0.03	0.37	0.03	39.14	<0.03		<0.03	18.08	0.01	<0.02 6 8	0.27	3.67	37.58	99.38
0.03         0.01         0.02         0.03 <th< td=""><td>LB002_ap002</td><td>20.0</td><td>0.0</td><td>0.03</td><td>60.05</td><td>0 0</td><td>0.03</td><td>5.05</td><td>0.0</td><td>20.12</td><td>×0.03</td><td></td><td>4.00</td><td>0.02</td><td>0.0</td><td>×0.02</td><td>0.0</td><td>, c. c.</td><td>24:70</td><td>90.90</td></th<>	LB002_ap002	20.0	0.0	0.03	60.05	0 0	0.03	5.05	0.0	20.12	×0.03		4.00	0.02	0.0	×0.02	0.0	, c. c.	24:70	90.90
0.04         0.010	LB002_ap003	20.0	0.0	0.0	0.22	5 0	0.03	5 6	0.0	50.75	60.0		50.03	0.00	40.0	×0.02	5 6	5 0 0	57.55	30.72
0.04         0.01         0.08         0.01         0.08         0.01         0.08         0.01         0.08         0.01         0.08         0.01         0.08         0.01         0.08         0.01         0.08         0.01         0.08         0.01         0.08         0.01         0.08         0.01         0.08         0.01         0.08         0.01         0.08         0.01         0.08         0.01         0.02         0.01         0.02         0.01         0.02         0.02         0.02         0.03         0.01         0.02         0.02         0.03         0.01         0.02         0.02         0.03         0.01         0.02         0.03         0.01         0.02         0.03         0.01         0.03         0.04         0.03         0.04         0.03         0.04         0.02         0.03         0.04         0.03         0.04         0.02         0.03         0.04         0.03         0.04         0.03         0.04         0.03         0.04         0.03         0.04         0.03         0.04         0.03         0.04         0.03         0.04         0.03         0.04         0.03         0.04         0.03         0.04         0.03         0.04         0.03 <th< td=""><td>LB002_ap004</td><td>0.02</td><td>0.00</td><td>\$0:08 \$000</td><td>5 5</td><td>0.0</td><td>40.0</td><td>0.08</td><td>0.00</td><td>36.33</td><td>\$0.03</td><td></td><td>\$0.03</td><td>18.03</td><td>0.03</td><td>20.02</td><td>0.43</td><td>5. 5 2. 6</td><td>37.00</td><td>96.79</td></th<>	LB002_ap004	0.02	0.00	\$0:08 \$000	5 5	0.0	40.0	0.08	0.00	36.33	\$0.03		\$0.03	18.03	0.03	20.02	0.43	5. 5 2. 6	37.00	96.79
0.04         -0.01         -0.08         -0.09	LB002_ap003	8.0	0.00	00:00		90.0	20.02	9 6	0.07	38.00	40.0		ŧ :0	2 6 7	0.0	50.02 0.05	0.30	3.73	37.58	99.22
0.02         0.010	LB002 ap 007	900	<0.0	<0.08	0.0	<0.06	0.03	0.59	<0.01	38.51	<0.03		\$0.0 \$0.0	18.12	0.01	<0.02	0.48	3.28	37.58	98.78
0.02         <0.03         <0.08         <0.08         <0.04         <0.08         <0.04         <0.08         <0.04         <0.08         <0.09         <0.08         <0.01         <0.02         <0.01         <0.02         <0.01         <0.02         <0.01         <0.02         <0.01         <0.02         <0.01         <0.02         <0.01         <0.02         <0.01         <0.02         <0.01         <0.02         <0.01         <0.02         <0.02         <0.02         <0.02         <0.02         <0.02         <0.02         <0.02         <0.02         <0.02         <0.02         <0.02         <0.02         <0.02         <0.02         <0.02         <0.02         <0.02         <0.02         <0.02         <0.02         <0.02         <0.02         <0.03         <0.03         <0.03         <0.03         <0.03         <0.03         <0.03         <0.03         <0.04         <0.03         <0.04         <0.03         <0.04         <0.03         <0.04         <0.03         <0.04         <0.03         <0.04         <0.03         <0.04         <0.03         <0.04         <0.03         <0.04         <0.03         <0.04         <0.03         <0.04         <0.03         <0.04         <0.03         <0.04         <0.03	LB002_ap008	0.02	<0.01	<0.08	<0.09	<0.06	0.04	0.46	<0.01	39.11	<0.03	<0.02	<0.03	18.10	<0.01	<0.02	0.37	3.66	37.57	99.33
0.06         <.0.01         <.0.02	LB002_ap009	0.02	<0.01	<0.08	<0.0>	0.08	90.0	0.63	<0.01	38.58	<0.04	90.0	<0.03	18.06	0.01	<0.02	0.59	3.17	37.55	98.83
0.03	LB002_ap010	90.0	<0.01	<0.09	0.09	0.09	0.04	0.82	0.01	38.39	<0.04	90.0	<0.03	18.07	0.01	<0.02	0.61	3.14	37.61	99.00
0.02 <0.01 <0.09 <0.09 0.07 0.07 1.24 <0.01 38.06 <0.03 0.04 <0.04 <18.08 0.01 <0.05 0.07 <0.07 347 37.35 0.10 <0.01 0.02 0.03 0.03 0.04 0.04 18.08 0.01 <0.02 0.05 37.97 0.03 37.97 0.03 0.13 0.10 <0.01 0.01 0.02 0.02 0.03 0.03 0.04 0.04 0.03 0.03 0.04 0.03 0.03	LB002_ap011	0.03	<0.01	<0.08	<0.09	<0.0>	0.02	0.30	0.01	39.02	<0.03	0.04	<0.03	18.21	0.02	<0.02	0.24	3.64	37.70	99.24
0.10 <0.01 0.12 0.28 0.14 0.23 0.21 0.20 0.37 97 0.05 0.13 <0.03 17.81 0.11 <0.02 261 125 37.62 37.62 0.10 0.10 0.23 0.21 0.06 37.69 0.04 0.13 <0.03 17.81 0.11 <0.02 2.61 125 37.62 37.62 0.04 0.13 <0.03 17.80 0.04 0.15 0.03 17.80 0.04 0.15 0.03 17.80 0.04 0.15 0.03 17.80 0.04 0.15 0.03 17.80 0.04 0.15 0.03 17.80 0.04 0.15 0.03 17.80 0.04 0.15 0.03 17.80 0.04 0.15 0.03 17.80 0.04 0.15 0.03 17.80 0.04 0.15 0.03 17.80 0.04 0.15 0.03 17.80 0.04 0.15 0.03 17.80 0.04 0.15 0.03 17.80 0.04 0.15 0.03 17.80 0.04 0.14 0.14 0.19 0.20 0.06 37.80 0.04 0.14 0.14 0.14 0.15 0.13 0.03 17.80 0.04 0.14 0.14 0.14 0.15 0.14 0.15 0.14 0.14 0.15 0.14 0.14 0.14 0.15 0.14 0.14 0.14 0.14 0.14 0.14 0.14 0.14	LB002_ap012	0.02	<0.01	<0.09	<0.09	0.07	0.07	1.24	<0.01	38.06	<0.03	0.04	<0.04	18.08	0.01	<0.02	0.75	3.47	37.35	99.15
0.17 <0.01 0.20 0.28 0.18 0.19 0.23 0.06 37.66 0.04 0.13 <0.03 17.57 0.09 <0.02 2.63 1.29 37.25 0.10 0.10 0.10 0.10 0.10 0.29 0.10 0.14 0.15 0.04 0.15 0.04 0.15 0.04 0.15 0.10 0.10 0.15 0.28 0.18 0.17 0.22 0.06 37.83 0.04 0.15 0.04 0.17 0.02 2.68 1.19 37.84 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.1	LB009_ap001	0.10	<0.01	0.12	0.26	0.11	0.23	0.21	90'0	37.97	0.05	0.13	<0.03	17.81	0.11	<0.02	2.61	1.25	37.62	98.61
0.10 <0.01	LB009_ap002	0.17	<0.01	0.20	0.28	0.18	0.19	0.23	90:0	37.66	0.04	0.13	<0.03	17.57	60.0	<0.02	2.63	1.29	37.25	97.97
0.11 <0.01	LB009_ap003	0.10	<0.01	0.15	0.26	0.18	0.17	0.22	90.0	37.83	<0.04	0.15	\$0.0 <b>^</b>	17.73	0.11	<0.02	2.86	1.30	37.38	98.50
0.07 <0.01	LB009_ap_004	0.11	<0.01	0.15	0.32	0.18	0.21	0.24	0.03	37.80	<0.04	0.15	<0.03	17.76	0.13	<0.02	2.66	1.19	37.54	98.47
0.09 <0.01	LB009_ap005	0.07	<0.01	0.18	0.29	0.14	0.29	0.20	0.06	37.93	<0.04	0.15	<0.03	17.76	0.10	<0.02	2.43	1.26	37.57	98.44
0.10 <0.01	LB009_ap006	0.09	40.04 50.04	0.15	0.24	0.09	0.24	0.21	0.05	37.84	0.04	0.14	\$0.0 \$0.0	17.70	0.11	40.02 6	2.61	.33	37.38	98.23
0.13 < 0.01	LB009_ap007	0.10	0.0v	<0.09	0.20	×0.0×	91.0	0.20	0.06	37.90	<0.04 6.04	41.0	\$0.0 \$0.0	17.85	21.0	<0.02 6 66	2.69	42.1	37.36	97.91
0.07 < 0.01	LB009_ap008	0.13	\$0.04 5	0.08	0.24	0.11	0.21	0.23	0.06	37.86	<0.04 0.04	0.16	×0.03	17.73	0.11	40.0Z	2.58	66.0	37.62	98.11
0.00 0.001 0.002 0.003 0.004 0.004 0.004 0.004 0.004 0.007 0	LB009_ap009	0.0	0.0	0.74	4 00	0.15	81.0	0.24	0.07	38.22	<0.04 80.04	0.10	\$0.03 \$0.03	17.86	0.09	×0.02	7.57	1.47	37.65	98.81
S +C: O CALL OLD COMPANY COMPA	LB009_ap010	90.0	0.0	\$0.08 0.44	90.0	70.0	0.21	0.20	0.04	4 66	0.04	9.09	4 50.00	17.87	0.0	20:02	S 6	5. 4 5. 4	31.12	96.29
١	LEGOUS ap 011	00.00	.0.0	4.0	•	90.00	60 	60	0.05	38.13	0.07	0.13	40.04	11.11	0.08	<0.02	7.09	2	37.54	96.53

Appendix C: Eastern Sunda arc apatite trace element chemistry (EMPA)

																-			
Analysis ID	Si	A	La	Ce	PN	Fe	Mn	Mg	පු	Sr	Na	¥	Δ.	S	As	ō	ш	O stoi.	TOTAL
LB009_ap_012	0.09	<0.01	0.18	0.41	0.15	0.22	0.21	0.05	37.88	0.04	0.16	<0.03	17.72	0.10	<0.02	2.76	1.10	37.52	98.58
LB009_ap013	0.12	<0.01	<0.09	0.28	0.15	0.33	0.20	90.0	37.92	0.05	0.15	<0.03	17.73	0.12	<0.02	2.58	1.09	37.64	98.43
LB018_ap001	0.13	<0.01	<0.08	0.19	0.23	0.09	0.15	0.03	38.36	<0.04	0.11	<0.04	17.96	0.03	<0.02	1.30	2.40	37.60	98.58
LB018_ap002	0.09	<0.01	0.10	0.11	0.09	0.06	0.07	<0.01	39.20	90.0	<0.02	<0.04	18.01	0.01	<0.02	0.37	3.09	37.74	98.98
LB022_ap001	0.08	<0.01	<0.09	<0.09	0.07	0.05	09:0	<0.01	38.26	<0.04	0.08	<0.03	18.01	0.02	0.02	0.37	3.19	37.48	98.25
LB022_ap002	90.0	<0.01	<0.08	0.12	0.17	0.05	0.28	0.01	38.81	<0.04	0.07	40.0 <del>4</del>	18.02	0.01	0.02	0.32	3.32	37.55	98.82
LB022_ap003	0.05	<0.01	<0.09	<0.09	0.07	0.09	0.29	<0.01	38.76	<0.04	0.08	<0.03	18.12	0.03	<0.02	0.29	3.11	37.76	98.64
LB022_ap004	0.11	<0.01	<0.08	<0.09	0.14	0.05	0.17	<0.01	38.88	<0.04	0.04	<0.03	17.97	0.01	0.02	0.25	3.31	37.55	98.50
LB022_ap005	0.05	<0.01	<0.09	<0.09	<0.06	0.06	0.29	<0.01	38.66	<0.04	0.08	<0.03	18.03	0.02	<0.02	0.29	3.21	37.55	98.23
LB022_ap_006	90:0	<0.01	<0.08	<0.09	<0.06	0.12	0.31	<0.01	38.63	<0.04	0.07	40.04	17.98	0.02	<0.02	0.33	3.28	37.45	98.24
LB022_ap_007	0.05	<0.01	<0.09	<0.1	<0.06	0.03	0.26	<0.01	38.94	<0.04	90.0	<0.03	18.11	0.01	<0.02	0.30	3.38	37.61	98.76
LB022_ap008	0.07	<0.01	0.17	0.12	0.13	0.03	0.28	<0.01	38.52	<0.03	0.07	<0.03	18.03	0.01	<0.02	0.28	3.16	37.53	98.40
LB022_ap_009	0.02	<0.01	<0.09	<0.09	<0.06	0.18	2.09	0.02	36.88	<0.04	0.03	40.04	17.87	0.03	<0.02	0.88	2.72	37.22	97.94
LB022_ap010	0.08	<0.01	0.08	0.09	<0.0>	0.02	0.17	<0.01	38.90	<0.03	0.04	40.0 <del>×</del>	18.08	<0.01	<0.02	0.27	3.68	37.48	98.89
LB024_ap_001	0.02	<0.01	<0.08	<0.09	<0.06	0.21	6.63	0.01	32.96	<0.04	90.0	40.04	17.54	0.02	<0.02	1.54	2.61	36.46	98.06
LB024_ap_002	0.02	<0.01	<0.09	<0.09	<0.06	0.04	0.27	<0.01	38.38	0.07	0.41	<0.03	17.24	0.61	<0.02	0.01	4.09	37.05	98.20
LB024_ap_003	0.03	<0.01	<0.08	<0.09	<0.06	<0.02	90.0	<0.01	39.01	<0.03	0.10	<0.03	17.97	0.14	<0.02	<0.01	3.93	37.40	98.63
LB024_ap_004	90:0	<0.01	<0.08	<0.09	<0.06	0.03	0.09	<0.01	38.70	0.08	0.19	40.04	17.19	0.45	<0.02	0.01	3.85	36.91	97.56
LB028_ap001	0.10	<0.01	<0.09	0.33	0.14	0.10	0.10	0.04	38.30	<0.04	0.10	<0.03	17.84	0.07	<0.02	1.37	2.44	37.42	98.36
LB029_ap001	0.08	<0.01	<0.08	<0.09	0.10	<0.02	<0.03	<0.01	39.20	<0.04	0.05	<0.03	18.12	0.01	<0.02	0.15	2.80	38.01	98.53
LB030_ap_001	0.08	<0.01	<0.09	<0.09	0.07	0.48	0.04	0.14	38.06	<0.04	0.04	<0.03	17.90	0.01	<0.02	1.87	2.08	37.38	98.15
LB030_ap_002	0.05	<0.01	<0.09	<0.09	90.0	0.35	0.09	0.14	38.55	<0.04	0.03	<0.03	18.02	<0.01	<0.02	1.00	2.33	37.77	98.38
LB030_ap003	0.08	<0.01	<0.09	<0.09	<0.06	0.43	0.11	0.17	38.22	0.04	0.10	<0.03	17.88	90.0	<0.02	1.73	2.01	37.62	98.45
LB030_ap004	0.00	<0.01	<0.08	<0.09	<0.06	0.49	0.09	0.14	38.42	0.04	90.0	<0.03	18.04	<0.01	<0.02	1.70	2.15	37.72	98.91
LB030_ap005	0.07	<0.01	<0.09	<0.09	<0.06	0.48	0.08	0.17	38.41	<0.03	0.05	<0.04	17.94	0.01	<0.02	1.74	2.10	37.62	98.66
LB030_ap_006	0.06	<0.01	<0.08	<0.09	0.10	0.49	0.07	0.16	38.28	0.04	0.04	×0.04	18.02	0.01	<0.02	1.70	2.10	37.68	98.75
LB030_ap007	0.02	<0.01	<0.08	0.09	<0.06	0.41	0.07	0.15	38.52	<0.04	0.03	<0.03	18.07	0.01	<0.02	0.87	2.25	37.92	98.44
LB030_ap008	0.06	<0.01	<0.08	0.10	<0.06	0.44	0.09	0.16	38.36	<0.04	0.03	40.0 <del>4</del>	18.05	<0.01	<0.02	1.47	2.18	37.75	98.68
LB030_ap009	0.07	<0.01	<0.08	<0.09	0.11	0.50	0.07	0.16	38.31	<0.04	90.0	<0.03	18.00	0.02	<0.02	1.58	2.16	37.71	98.77
LB030_ap010	0.07	<0.01	<0.09	0.09	0.08	0.41	0.08	0.14	38.60	<0.03	0.02	\$0.0 <del>4</del>	18.01	0.02	<0.02	1.06	2.16	37.89	98.66
LB030_ap011	0.06	<0.01	<0.08	<0.09	<0.06	0.49	0.07	0.14	38.29	<0.04	0.05	<0.03	18.01	<0.01	<0.02	1.78	2.03	37.66	98.59
LB030_ap012	0.00	<0.01	<0.08	<0.09	<0.06	0.46	0.10	0.15	38.48	<0.04	0.02	40.0×	18.04	<0.01	<0.02	1.68	2.11	37.74	98.83
LB030_ap013	0.07	<0.01	<0.09	<0.09	<0.06	0.43	0.11	0.14	38.61	<0.04	0.02	<0.03	18.09	<0.01	<0.02	0.97	2.18	37.98	98.59
LB030_ap014	0.12	<0.01	<0.08	<0.1	<0.06	0.55	0.09	0.14	38.37	<0.04	90.0	<0.03	18.11	<0.01	<0.02	1.69	2.01	37.93	20.66
LB030_ap015	0.00	<0.01	0.13	<0.09	<0.06	0.40	0.09	0.15	38.65	<0.04	0.03	<0.03	18.12	0.02	<0.02	0.90	2.08	38.15	98.78
LB030_ap016	0.09	<0.01	<0.08	<0.09	<0.07	0.48	0.09	0.15	38.40	<0.03	0.06	40.0 <del>4</del>	17.99	0.04	<0.02	1.69	2.25	37.68	98.90
LB030_ap017	0.00	<0.01	<0.08	<0.09	<0.06	0.46	0.09	0.16	38.39	<0.03	0.07	<0.03	18.05	0.01	<0.02	<del>1</del> .	2.23	37.68	99.04
LB036_ap001	0.44	0.35	<0.08	<0.09	<0.06	0.21	0.62	0.15	37.74	0.04	0.27	90.0	17.38	0.36	<0.02	0.02	3.71	37.74	99.12
LB036_ap002	0.43	0.41	<0.09	<0.09	<0.07	0.31	0.43	90.0	37.72	0.04	0.15	<0.03	17.67	0.14	<0.02	0.07	0.67	38.95	97.05
LB036_ap003	0.04	<0.01	<0.08	0.14	0.07	0.10	0.19	0.03	38.71	90.0	0.12	<0.03	17.92	0.10	<0.02	1.91	1.87	37.78	99.05
*a*	*all elements in wt. %	ents in	wt.%	(EMPA	, A).														
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Appendix C: Eastern Sunda arc apatite trace element chemistry (LA-ICP-MS)

Analysis ID	Ca	Ce	Dy	Er	Eu	PS	Но	La	Lu	Na	PN	Ь	Pb	Pr	Sm	Sr	Tb	. Th	Tm	\ \ \	^	Yb	Fe
LB014_322_ap1	391586	3248.3	166.48	84.96	33.62	253.59	31.35	1371.9	7.09	1055.5	1533.4	563467	96.0	360.7	270.8	302.2	30.65	135.57	10.28	17.35	13.85	55.29	962.3
LB014_322_ap10	391497	2696.5	150.81	79.42	27.55	213.33	28.05	1226.4	6.84	1597.3	1277.7	564213	0.84	306.0	234.3	310.3	26.95	63.29	9.42	11.07	14.40	55.94	953.5
LB014_322_ap11	391819	2823.3	151.99	73.25	33.93	227.91	27.66	1261.5	5.93	1232.8	1415.3	563893	0.95	335.4	260.3	363.6	27.43	59.58	8.67	11.79	15.75	51.50	897.9
LB014_322_ap12	392138	2851.2	143.40	74.55	28.58	214.82	27.68	1231.4	6.78	1070.3	1294.6	563904	0.82	317.3	226.3	279.0	26.13	94.77	8.93	13.04	15.69	50.91	980.8
LB014_322_ap13	393294	2207.7	93.92	48.73	24.21	150.33	17.29	1107.4	4.66	836.1	969.5	564390	0.93	244.0	165.1	297.6	16.80	114.77	2.60	12.14	15.94	35.21	947.2
LB014_322_ap14	391580	3334.4	169.48	81.96	43.07	262.65	30.11	1403.7	6.26	948.7	1696.3	563268	0.89	388.4	310.1	358.5	30.98	135.97	9.16	15.61	12.82	51.56	860.4
LB014_322_ap15	392367	2717.6	140.52	09.69	28.54	211.13	26.02	1282.1	6.42	985.2	1314.6	563906	0.87	311.1	234.8	273.6	25.40	107.52	8.00	17.51	13.65	48.99	902.4
LB014_322_ap16	391874	3101.3	144.73	72.74	28.82	222.38	27.03	1304.2	5.75	1079.6	1396.5	563704	0.81	340.9	245.5	366.6	26.38	82.36	8.59	13.10	16.40	45.81	891.2
LB014_322_ap17	390987	3605.0	182.30	94.29	39.47	265.96	34.31	1460.1	8.21	1220.0	1678.3	563239	0.89	399.9	300.9	348.3	32.59	134.59	11.64	14.23	16.71	64.17	860.7
LB014_322_ap18	390774	3707.7	183.39	87.00	38.92	289.48	33.49	1560.7	6.39	1204.2	1769.8	563095	0.80	420.1	316.9	336.0	34.41	112.85	69.6	13.02	11.95	51.25	942.2
LB014_322_ap19	392578	2491.3	133.06	67.49	26.54	202.05	24.62	1213.9	5.74	1027.4	1159.6	564127	0.88	284.4	217.1	318.4	23.79	122.89	7.71	11.29	13.22	45.89	897.3
LB014_322_ap2	391847	3129.7	140.63	70.57	31.45	215.04	26.16	1386.1	5.71	1041.6	1371.9	563640	0.92	334.8	236.1	347.4	25.56	125.59	8.06	17.21	14.00	44.47	938.7
LB014_322_ap20	391579	3238.1	170.78	85.37	30.66	248.17	31.67	1356.9	6.34	1097.0	1506.2	563522	0.90	360.0	272.2	287.9	30.60	120.85	66.6	17.20	12.32	53.15	961.3
LB014_322_ap21	392301	3017.1	138.58	70.32	30.93	212.04	25.98	1273.9	6.28	855.6	1378.8	563695	0.85	334.3	233.9	295.6	25.27	79.30	8.39	6.84	13.15	47.87	948.5
LB014_322_ap22	393338	2209.2	110.48	55.73	24.67	176.14	20.40	1049.9	4.59	822.9	1061.4	564373	98.0	253.4	193.2	301.5	20.58	49.19	6.14	7.71	12.06	36.01	871.7
LB014 322 ap23	392436	2797.5	130.14	63.28	29.20	210.04	23.96	1265.5	5.41	919.0	1336.4	563851	96.0	318.4	228.4	315.9	24.69	105.37	7.27	13.93	14.40	39.20	863.5
LB014 322 ap24	392471	2659.0	129.48	88.99	27.91	196.11	24.59	1142.7	6.02	1054.1	1188.4	564110	0.85	287.9	211.1	321.6	23.36	70.27	7.78	12.20	13.77	45.29	929.4
LB014 322 ap25	391297	3516.0	167.62	82.43	31.88	260.14	31.45	1435.3	6.62	1051.1	1621.3	563258	0.89	391.1	284.3	320.4	31.03	143.46	9.64	18.34	13.49	53.16	974.3
LB014 322 ap26	391952	3004.2	141.23	72.00	25.79	213.34	26.30	1330.1	6.11	1077.7	1336.0	563777	0.91	324.7	230.6	308.1	25.77	26.96	8.58	12.67	14.09	48.98	963.5
LB014 322 ap27	392423	2703.0	127.69	63.36	24.73	201.21	23.91	1136.8	5.24	1076.0	1256.6	564097	0.93	301.0	221.7	307.8	23.52	33.18	7.41	8.13	12.88	40.79	902.8
LB014 322 ap28	392155	3051.9	130.49	68.83	28.45	201.36	24.71	1349.4	6.37	993.4	1314.9	563769	0.89	329.1	220.6	289.1	23.82	66.49	8.20	14.70	16.12	47.87	888.4
LB014 322 ap29	390602	3660.4	191.97	94.77	38.33	291.01	35.40	1493.5	7.64	1271.7	1719.5	563159	1.13	408.9	306.2	433.4	35.05	61.41	10.95	11.40	16.73	59.29	1088.9
LB014 322 ap3	391374	3233.5	151.49	76.12	34.10	229.76	28.25	1339.6	6.54	1277.2	1488.7	563650	4.41	359.8	257.7	404.7	27.58	53.32	9.14	9.52	16.05	51.43	912.7
LB014 322 ap30	392543	2697.7	122.71	61.59	28.07	199.61	22.67	1309.9	5.56	843.4	1248.9	563841	1.02	302.9	213.8	302.0	22.55	202.05	7.07	20.59	15.60	41.91	945.5
LB014_322_ap31	392643	2602.5	100.86	53.93	29.04	150.00	19.23	1225.0	5.68	1082.3	1033.6	564263	1.13	265.2	167.6	318.5	18.26	90.99	6.56	9.39	17.71	41.10	879.3
LB014_322_ap32	392650	2341.1	122.94	61.37	29.52	189.39	22.83	1061.3	5.55	1099.7	1148.0	564330	0.82	270.4	208.8	291.5	22.65	75.07	7.26	9.52	14.97	43.34	992.7
LB014_322_ap33	391303	3511.0	156.97	85.47	36.44	229.06	30.33	1473.9	8.15	1135.4	1518.8	563373	0.82	379.8	256.9	306.0	27.91	124.95	10.91	14.21	12.94	64.42	938.3
LB014_322_ap34	390410	2648.8	117.18	59.78	25.40	173.77	21.87	1201.6	5.62	2531.8	1124.5	564800	1.06	277.7	190.0	322.4	21.29	71.19	7.40	9.98	15.62	41.94	920.5
LB014_322_ap35	392764	2525.6	126.13	64.06	24.94	190.52	23.59	1267.9	5.72	881.6	1143.8	564054	1.02	279.7	210.0	293.4	23.30	122.24	7.31	12.94	13.53	42.96	921.3
LB014_322_ap36	390462	4038.4	182.55	85.55	40.32	285.93	32.42	1730.0	6.89	1194.6	1857.6	562839	1.20	453.3	326.2	408.7	33.21	63.68	9.88	15.20	17.91	57.04	856.6
LB014_322_ap37	392049	2873.6	151.47	74.80	32.12	226.47	27.33	1297.1	6.40	1068.4	1406.6	563796	0.87	329.8	254.7	300.4	27.92	102.51	8.76	13.52	13.57	49.13	888.6
LB014_322_ap38	392717	2399.7	132.27	66.99	23.00	193.66	24.69	1138.9	6.19	1030.8	1136.3	564246	0.87	275.2	210.8	279.9	23.53	81.26	69.7	11.45	15.12	48.97	929.2
LB014_322_ap39	392348	2754.0	142.86	72.39	29.11	207.84	26.47	1293.6	99.9	978.1	1240.1	563910	69.0	308.3	226.2	301.0	25.80	96.33	8.72	10.13	16.35	50.91	945.8
LB014_322_ap4	392633	2753.7	113.97	61.54	24.20	177.77	22.01	1306.3	5.92	840.9	1149.0	563940	06.0	284.7	190.8	265.8	20.79	110.59	99'2	15.54	14.21	42.88	1017.2
LB014_322_ap40	390760	3932.4	192.62	94.23	34.86	285.87	34.90	1672.5	7.49	1124.3	1792.3	562914	98.0	434.9	317.5	381.0	33.94	88.33	11.03	14.37	14.78	61.98	795.6
LB014_322_ap5	392522	2620.7	132.66	68.69	24.90	193.71	24.75	1110.3	5.64	1015.9	1201.6	564122	0.81	288.7	210.3	311.0	23.83	46.54	8.19	9.72	12.24	45.13	999.9
LB014_322_ap6	391543	3185.4	173.30	87.08	32.72	253.03	32.22	1268.0	0.78	6.1121	1.7161	563641	0.80	365.1	280.9	349.1	31.37	84.36 85.88	10.06	10.34	14.10	25.83	864.8
LB014_322_ap7	000000	3,007.	00.00	00.10	07.30	400.00	33.23	0.000	7	1392.	0.707	2020121	0.50	0.00	4.126	0.004	5 5	90.00	1 2	7.4.	0.00	00.00	. 707.
LB014_322_ap8	393342	0.1040	92. 14 117.05	61.09	24.10	190.00	22.98	0.200	- 4.7 - 7.7	717.4	1187	202000	9.70	781.7	5 50	0.584	51.02	0.37	5 c		16.09	12.42	075.7
LB0.14_322_ap9	394062	1270.1	65.82	30.77	19.01	109.47	1 88	477.9	2.82	785.9	720.0	565176	0.38	165.9	129.9	322.1	12.65	25.52	3.46	173	27.07	20.43	1578.8
LB025_323_ap1	394317	1233.1	73.93	34.33	20.53	117.48	12.85	430.1	3.34	715.8	728.6	565184	0.53	159.3	135.9	352.5	14.18	4.92	3.93	1.69	25.02	22.98	1407.2
I B025_323_ap11	394377	1293.5	108.59	47.61	21.10	157.42	18.81	447.0	4.45	599.2	802.8	565023	0.49	176.9	169.5	288.0	20.23	5.02	5.41	1.52	13.12	34.01	1384.0
LB025_323_ap12	393116	1290.0	71.27	30.37	18.52	117.35	11.95	466.3	2.85	1134.8	768.9	565202	0.52	172.3	137.5	380.6	13.59	6.64	3.54	1.85	37.01	21.01	1994.7
LB025_323_ap13	393277	1832.0	89.80	39.90	21.51	145.75	15.72	674.9	3.43	732.0	949.5	564635	0.75	220.9	167.6	248.1	16.84	82.9	4.71	1.25	15.50	25.43	1875.5
LB025 323 ap14	394475	886.5	57.89	26.40	17.37	91.02	10.28	347.5	2.37	874.4	525.2	565576	1.07	115.2	98.8	330.6	11.15	3.72	3.04	1.26	36.77	16.65	1491.4
LB025_323_ap15	392986	2067.2	111.73	48.43	28.20	174.25	18.57	749.4	5.01	938.6	1201.3	564498	0.57	269.5	217.0	226.0	21.08	11.98	5.54	3.20	31.04	34.74	1352.8
LB025_323_ap16	392780	6.603	72.45	32.15	25.59	101.40	12.38	175.2	3.70	581.8	377.5	565246	1.07	76.2	106.5	243.9	13.81	1.63	4.17	0.87	6.88		4599.0
LB025_323_ap17	379811	1812.5	268.85	128.26	37.71	329.24	48.59	624.2	12.76	1147.1	1279.0	561924	1.88	259.0	322.1	177.1	46.14	10.04	15.61	2.05	24.81		16622.8
LB025_323_ap18	394529	721.2	117.13	44.34	19.39	167.67	18.54	224.6	3.41	659.3	575.3	565430	0.72	109.7	163.2	281.7	22.50	1.72	5.22	1.48	4.10	28.27	1871.2
<b>V</b> *	*All elements are in ppm	ents a	re in t	mat																			
i		!	-	1																			

Appendix C: Eastern Sunda arc apatite trace element chemistry (LA-ICP-MS)

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Analysis ID	Ca	Ce	Dy	Er	Eu	Р	Но	La	Lu	Na	PN	Д.	Pb	P.	Sm	Sr		Th	Tm U	>	>	Fe	
LB025_323_ap2	392620	1156.8	145.50	64.43	27.05	199.72	25.76	384.1	5.77	839.3	856.4	564847	1.08	170.7	201.7	246.3	26.56	5.71	7.72				11.1
LB025_323_ap3	394403	1113.2	96.39	28.02	19.80	106.96	11.09	414.7	2.60	620.6	676.3	565200	0.52	149.2	123.6	395.9	12.54	5.26	3.24				1601.6
LB025_323_ap4	394823	1008.6	55.52	25.10	18.29	89.26	90.6	366.9	2.45	726.1	583.5	565464	0.44	132.6	108.5	363.1	10.41	5.02	2.96			7.90	1158.0
LB025_323_ap5	394029	1055.7	63.31	25.51	17.88	108.07	10.79	390.0	2.40	640.3	641.5	565180	0.45	138.9	121.3	409.8	11.77	5.76	2.95			7.58	2102.5
LB025_323_ap6	392518	1907.6	187.60	85.20	26.25	262.45	33.40	635.2	6.73	1040.0	1203.0	564474	0.76	257.4	265.4	189.8	33.41	6.27	10.13		24.77	91.16	1775.7
LB025_323_ap7	394000	1182 7	10.1.7	30.02	10.01	118 74	10.01	5 7 S	5.7.5	0.020	713.2	565101	0.00	199.2 157.6	136.2	310.5	20.03 13.76	28.6	9.30			50 G	1303.0
LB025_323_ap8	394609	1248 1	63.24	27.83	9.9	110.04	11.05	4715	2.50	684.3	723.8	565225	0.10	161.0	127.9	312.1	12.30	2, 4, 7, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2,	9 5			18.33	1144.8
LB022_323_ap9	396070	673.0	25.37	11.66	13.23	41.36	4.60	275.2	0.87	143.8	340.7	565606	2.20	82.0	51.3	164.0	4.91	0.97	: 2:	0.83			1465.8
LB027 324 ap10	396929	714.5	54.30	23.14	11.40	85.84	9.83	309.5	1.35	188.3	404.0	565703	3.88	86.3	80.1	259.0	9.98	3.07	2.26	0.59	7.55	10.98	98.4
LB027_324_ap11	395904	625.8	31.85	13.09	12.03	50.84	5.62	239.2	0.87	331.8	331.0	565723	2.37	77.2	58.0	200.6	6.01	1.76	1.40	0.81			1354.6
LB027_324_ap12	396426	772.0	32.83	15.02	15.39	52.29	5.86	302.8	06.0	251.1	382.3	565682	2.06	91.4	65.7	184.4	6.30	2.47	1.55		11.52		82.8
LB027_324_ap13	393985	756.0	30.84	13.91	12.30	54.72	5.61	346.8	0.81	326.2	366.9	565256	3.21	84.2	29.0	176.8	5.94	1.07	1.25				468.6
LB027_324_ap2	394623	721.2	20.84	8.96	10.24	37.97	3.72	331.5	0.55	251.2	324.3	565369	2.21	80.9	45.2	212.5	4.13	09.0	0.88			4.22	2928.5
LB027_324_ap3	396061	726.8	53.77	27.25	12.17	71.78	10.14	307.3	2.65	252.6	401.6	565592	4.	89.2	75.5	183.9	9.25	1.57	3.18				9.690
LB027_324_ap4	396634	671.7	45.37	23.82	10.65	64.74	8.83	285.3	1.97	420.5	362.6	565852	8.24	82.7	63.7	297.3	7.96	1.26	2.62				101.3
LB027_324_ap5	394724	597.1	46.67	22.32	12.89	71.88	8.88	212.3	1.99	391.9	386.3	565507	2.97	81.6	71.3	194.5	8.75	2.20	2.41		37.08		8.765
LB027_324_ap6	394576	754.0	51.48	25.51	14.39	71.89	9.25	304.6	1.63	390.1	414.0	565384	1.87	2.06	0.77	202.9	9.16	1.26	2.74				0.695
LB027_324_ap7	395958	768.0	42.41	21.13	14.85	62.81	7.69	280.9	2.28	250.9	433.4	565566	2.12	100.2	71.2	174.5	7.80	2.08	2.52				182.3
LB027_324_ap8	396970	7.4.7	22.12	8.05	12.58	45.41	4.01	315.7	0.43	208.7	374.2	565768	1.43	88.7	58.6	210.7	4.84	0.63	0.79				121.2
LB027_324_ap9	396931	756.9	24.71	9.22	11.14	43.02	4.41	349.9	0.49	267.3	332.0	565818	3.10	82.0	49.5	192.6	4.90	2.17	0.93		22.66		86.5
LB031_325_ap1	392951	548.8	179.32	88.92	28.96	183.29	33.39	180.4	8.71	403.8	491.8	564960	0.49	89.9	158.2	308.0	28.70	4.26	11.52				262.4
LB031_325_ap10	390792	571.0	153.59	82.76	30.21	150.70	29.40	182.1	8.53	251.8	454.4	564457	0.55	88.5	132.7	305.3	23.95	4.86	11.00	2.28		63.70	7187.6
LB031_325_ap11	391928	565.6	150.17	80.01	28.40	147.46	27.88	182.7	8.00	358.9	437.4	564775	1.05	84.8	128.9	301.7	24.14	2.07	69.6				674.7
LB031_325_ap12	393334	364.5	138.16	69.93	19.88	161.66	26.65	111.9	5.65	327.4	367.4	565167	0.25	61.1	117.0	282.5	22.32	2.47	8.02				342.3
LB031_325_ap13	382955	449.2	129.10	69.47	24.50	136.82	24.76	139.3	6.68	310.0	384.2	563055	0.49	72.4	116.9	292.2	20.87	3.50	8.34				716.5
LB031_325_ap14	392430	509.8	150.91	78.81	26.22	158.27	29.09	159.2	7.57	281.5	445.8	564840	0.56	82.1	133.0	298.9	24.79	3.79	9.92				254.0
LB031_325_ap15	392902	9.999	202.91	102.16	29.93	210.55	37.55	208.7	9.26	275.2	578.5	564746	0.46	106.7	178.7	310.0	32.60	5.04	12.11				.298.7
LB031_325_ap16	388654	9.599	205.32	102.62	30.02	216.10	38.29	213.4	9.70	381.1	584.8	563975	92.0	104.6	176.5	9.008	32.25	4.66	12.28				198.6
LB031_325_ap17	391223	901.8	251.56	112.26	24.11	319.81	44.94	279.3	6.95	465.9	833.1	564301	0.67	144.1	247.4	260.7	42.42	4.11	10.91	1.36			5450.0
LB031_325_ap2	393314	467.2	157.38	76.93	22.30	197.62	29.97	145.8	5.88	313.6	465.2	565044	0.28	78.0	144.1	272.0	26.51	2.31	8.49				161.1
LB031_325_ap3	391570	1.799	213.12	105.09	28.83	228.99	39.61	210.1	9.67	313.6	8.709	564487	0.51	106.5	188.2	298.0	34.43	4 8.	12.64				785.3
LB031_325_ap4	393267	475.6	140.60	61.96	23.62	188.09	24.72	144.6	4.53	362.6	474.9	565079	0.40	78.8	148.7	296.7	25.40	2.22	6.70				129.9
LB031_325_ap5	361899	375.4	98.85	52.51	21.80	99.87	19.16	116.2	5.33	267.2	301.4	558948	0.48	59.4	87.8	290.7	15.81	3.03	29.9	1.42			240.4
LB031_325_ap6	394014	398.4	160.51	81.70	24.32	183.56	30.85	118.9	6.82	317.8	413.8	565229	0.26	68.3	133.4	313.6	26.21	2.15	9.29				378.4
LB031_325_ap7	392710	641.5	196.59	99.82	29.25	211.64	37.33	198.2	9.25	247.7	578.0	564707	0.46	103.8	171.0	304.0	31.55	4.83	12.42		15.23	70.28	4618.3
LB031_325_ap8	392955	654.3	150.30	72.50	22.73	192.24	27.91	244.2	5.74	512.4	506.8	565022	<del>2</del> 5	94.8	149.4	244.8	26.15	2.16	8.19	0.94			.037.1
LB031_325_ap9	392945	2474.4	220.10	126.07	26.13	289.44	73.07	4.08- 4.00	6.73	280.5 1657.8	1373.1	504620	0.50	90.9	290.1	321.0	30. IS	74.43	16.75				2555.2
LB034_328_ap1	302725	23803	107.62	107.37	30.17	258.81	37.60	8,000	10.67	0.7001 8.801	1281	564202	2 44	6.1.00	266.4	303.6	34.50	95.30	13.75				727.3
LB034_328_ap10	388979	1789.8	160.17	85.66	27.04	199.53	30.63	724.5	8 47	3952.6	986.9	565964	1 28	223.7	204.9	363.1	26.90	28.08	10.71	2 2 2			1159.0
LB034 328 ap12	391197	2959.4	210.74	110.02	35.54	285.80	40.81	1154.5	10.61	1516.9	1502.8	563853	1.07	347.2	293.7	332.0	37.36	71.30	13.79			81.15	924.4
LB034 328 ap14	391220	2643.5	270.89	145.27	36.35	318.40	51.44	1001.3	13.46	1656.5	1416.0	564077	06.0	317.3	313.0	322.8	44.77	63.56	18.44	10.53		12.29	947.0
LB034_328_ap15	391168	2981.7	179.38	92.55	36.06	255.38	34.18	1154.9	8.86	1559.8	1492.1	563907	1.1	347.9	275.4	353.3	31.68	84.66	11.79	9.52	10.05	9.94	933.9
LB034_328_ap16	390370	3452.8	225.54	116.71	38.19	320.39	43.08	1319.6	11.04	1625.1	1756.9	563428	2.30	407.5	339.0	336.1	40.34	81.27	14.32	12.09		82.80	963.7
LB034_328_ap17	390875	2471.1	313.39	180.20	35.80	349.13	61.91	912.7	19.78	1880.3	1403.9	564191	1.31	307.8	325.3	296.1	50.56	76.63	23.73	13.11	~	4.11	6.730
LB034_328_ap18	392267	1793.4	174.17	95.80	26.83	216.94	33.05	0.079	10.08	1000.2	1035.4	564460	1.65	227.8	216.5	259.7	29.32	82.40	12.13	09.9	. 00.01	74.63	2294.9
LB034_328_ap19	391425	2530.8	241.49	131.34	37.62	310.99	46.46	949.3	13.77	1663.9	1383.5	564194	0.80	309.0	297.6	329.8	42.14	98.51	16.49	13.59	8.10 1	01.61	853.1
LB034_328_ap2	392019	2357.9	213.92	114.24	34.48	263.25	41.28	886.9	10.95	1433.7	1261.9	564330	9.18	287.4	273.5	307.4	36.93	66.81	14.10	10.67	08.6	83.35	940.9
LB034_328_ap20	390571	2947.9	312.56	167.55	39.29	384.90	59.53	1090.1	16.45	1743.3	1659.6	563718	1.05	360.7	363.9	314.0	53.18	90.86	21.29	13.02	8.25	5.26	937.7
<b>V</b> *	*All elements are in ppm	ents a	re in p	pm.																			

Appendix C: Eastern Sunda arc apatite trace element chemistry (LA-ICP-MS)

15224         1264.7         564352         1.02         282.4           149.6         149.9         563382         1.18         335.4           1459.2         1478.5         563982         1.41         335.4           1677.5         1438.3         564178         1.16         304.1           1566.4         1481.3         564178         1.42         335.9           1635.5         1540.2         5684128         1.41         304.1           1536.5         1623.9         564178         1.16         304.1           1648.5         1664121         1.03         304.1           1648.5         1623.9         564178         1.42         335.0           1648.5         1605.8         564121         1.38         304.1           1648.5         1623.9         564101         1.66         332.0           1649.5         1644.4         56837.8         0.73         341.3           1649.6         565509         0.65         128.5         205.9           1649.6         565509         0.65         128.5         205.9           1649.7         565509         0.79         99.0           105.1         477.9	Na Nd	Pr	0)	_	Ė	⊃	>	ΛÞ	Fe
399401         38944         32288         1733         325.9         639.9         10048         4188         6189.9         6189.9         138.9           398401         38844         32288         173.3         32.24         43.20         618.0         143.0         618.9         143.0         618.9         143.0         618.9         143.0         618.9         143.0         618.9         143.0         618.9         418.9         518.9         143.0         518.9         418.9         518.9         143.0         518.9         418.9         518.9         143.0         518.9         418.9         518.9         143.0         518.9         518.9         143.0         518.9         518.9         143.0         518.9         5	1522.4 1264.7							72.49	888.9
998.95         25.95.4         37.0         22.25.4         45.20         10.95.2         11.75         97.10         25.25.4         45.20         10.05.2         11.75         97.10         25.25.4         45.20         10.05         11.75         97.10         25.25.4         14.50         10.05         11.75         50.04         10.25         10.05         11.75         50.04         10.05         11.25         10.05         11.75         10.05         11.75         10.05         11.75         10.05         11.75         10.05         10.05         11.75         10.05         10.05         11.75         10.05 <td>1418.6 1480.9</td> <td></td> <td></td> <td>.3 35.58</td> <td></td> <td></td> <td></td> <td>78.27</td> <td>976.0</td>	1418.6 1480.9			.3 35.58				78.27	976.0
991929         28294         28295         28294         28295         28295         28295         28295         28294         18295         38484         28295         28294         18295         38494         28294 <t< td=""><td>1459.2 1478.5</td><td></td><td></td><td>•</td><td>100.25</td><td></td><td>_</td><td>88.43</td><td>946.4</td></t<>	1459.2 1478.5			•	100.25		_	88.43	946.4
931435         24240         25254         52524         53254 <t< td=""><td>1617.2 1643.3</td><td></td><td></td><td>-</td><td>115.43</td><td></td><td>00 9.93</td><td>107.57</td><td>1035.7</td></t<>	1617.2 1643.3			-	115.43		00 9.93	107.57	1035.7
991421         24750         2524         4377         3456         1104         4854         1105         3524         1437         3645         1109         4854         1105         3647         1115         1305         5647         1115         3605         5640         2569         4054         1109         1115         1305         5640         110         3641         1000         3621         1109         3621         1000         3621         1000         3621         1000         3621         1000         3621         1000         3621         1000         3621         1000         3621         3662         3670         1000         3621         3660         3622         1000         1000         3621         3622         1000         3621         3622         3622         3620         <	1657.5 1398.6			-	72.55	_		110.99	982.3
939170         28891         42.38         1.44.2         34.0         22.44.4         46.2         1.44.4         46.2         1.44.4         46.2         41.44         46.2         1.44.4         46.2         1.44.4         46.2         1.44.4         46.2         1.44.2         46.4         96.7         1.46.2         1.49.	1586.4 1363.3				67.52			100.43	1081.0
991079         25814         26840         14.0         38.4         27.8         40.0         69.0         11.2         14.0         38.4         27.8         40.0         69.0         11.2         14.0         38.4         27.8         44.4         1095         11.2         14.0         38.9         28.0         38.0         38.0         11.2         14.0         38.0	1305.5 1540.2		326.3 363.4		76.28	_		86.99	1090.3
391121         30140         22561         13106         38 21         3400         423         11443         11493         1	1468.5 1403.5		287.2 334.2		111.65			84.12	914.2
390.04         320.55         277.81         112.74         28.91         22.0.5         41.04         10.056         11.71         10.056         11.71         10.056         11.71         10.056	1535.5 1623.9				85.92	Ì		90.93	702.9
3900.48         161.08         66.1.7         26.0.1         26.0.2         30.00         7.30         16.0.8         16.0.8         66.1.4         16.0.8         16.0.9         16.0.8         16.0.8         16.0.8         16.0.8         16.0.8         16.0.8         16.0.8         16.0.8         16.0.8         16.0.8         16.0.8         16.0.8         16.0.8         16.0.8         16.0.8         16.0.8         16.0.8         16.0.8         16.0.8 <td>1764.0 1481.7</td> <td></td> <td>307.8 332.0</td> <td>.0 39.74</td> <td>93.97</td> <td>16.10 11.09</td> <td></td> <td>91.14</td> <td>974.5</td>	1764.0 1481.7		307.8 332.0	.0 39.74	93.97	16.10 11.09		91.14	974.5
37.14         37.5         37.6         37.7         37.6         37.6         37.7         37.6         37.7         37.6         37.7         37.7         37.7         37.7         37.7         37.7         37.7         37.7         37.7         37.7         37.7         37.7         37.7         37.7         37.7         37.7 <t< td=""><td>1649.5 1058.1</td><td></td><td></td><td></td><td></td><td>10.27 5.48</td><td>48 3.28</td><td>60.38</td><td>1314.8</td></t<>	1649.5 1058.1					10.27 5.48	48 3.28	60.38	1314.8
391424         3875         19464         3875         19464         4875         19464         4875         19464         3875         19464         3875         19464         3876         14045         14645         6687         1968         988         9875         1944         200         3700         11904         987         14065         6869         0.02         685         988	1519.8 1318.8							100.16	1034.9
397314         4867         10442         5868         715         1238         2102         1711         518         1715         1738         2102         1711         518         1716         2739         27134         2004         27134         27144         27144         27144         27144         27144         27144         27144         27144         27144         27144         27144         27144         27144         27144	1406.5 1454.4				108.65	12.97 13.83		74.20	968.1
383681         3244         20376         16382         1834         2174         4030         3447         649         12297         665680         065         565680         065         5658         068         1834         2624         2624         2624         2624         1228         2024         11282         2024         11282         2024         11282         2024         11282         2024         11282         2024         11282         2024         11282         2024         11282         2024         11282         2024         11282         2024         11282         2024         11282         2024         11282         2024         11282         2024         11282         2024         11282         2024         11284         80.5         11282         2024         11284         80.5         11282         2024         11282         2017         11282         2024         11284         2024         11284         2024         11284         2024         11284         2024         11284         2022         1144         8.72         1144         8.72         1144         8.72         1144         8.72         1144         8.72         1144         8.72         1144         8.72	107.6 355.6							36.90	73.9
394228         (1525)         30940         (1534)         28.43         28.54         60.74         67.57         67.57         68.98         0.96         0.55         6.86         0.75         6.87         6.82 <td>1229.7 621.5</td> <td></td> <td>.,</td> <td></td> <td>42.55</td> <td></td> <td></td> <td>56.75</td> <td>1077.8</td>	1229.7 621.5		.,		42.55			56.75	1077.8
39455         3941         22437         11282         2050         26707         4337         3973         877         976.1         677.7         66839         0.87         134.2           396566         1054.1         1128.2         106.6         124.79         186.5         177.7         565.5         687.6         687.7         666594         0.77         190.0           397746         566.2         168.34         68.2         1.34         165.5         34.12         147.4         8.72         105.0         566594         0.19         9.0           397746         566.2         168.4         68.2         4.34         165.6         34.12         10.4         8.72         10.6         566594         0.19         9.0           397746         566.2         10.3         7.2         22.2         22.2         10.6         10.9         56.0         0.19         9.0         10.9         9.0         10.9         9.0         10.0         9.0         10.0         9.0         9.0         10.0         9.0         10.0         9.0         10.0         9.0         10.0         9.0         10.0         10.0         9.0         10.0         9.0         10.0         9.	599.8 986.2							133.11	638.4
387368         10554         95.22         58.32         16.86         14.77         18.95         51.77         59.01         47.73         667.01         67.73         90.01         47.73         67.02         67.73         90.01         47.73         90.01         47.73         90.01         47.73         90.01         47.73         90.01         47.73         90.01         47.73         90.01         47.73         90.01         47.73         90.01         47.73         90.01         47.73         90.01         47.73         90.01         47.73         90.01         47.73         90.01         47.73         90.01         47.73         90.01         47.73         90.01         47.83         90.01         47.73         90.01         47.73         90.01         47.73         90.01         47.73         90.01         47.73         90.01         47.73         90.01         47.73         90.01         47.73         90.01         90.01         47.73         90.01         90.01         90.02         90.01         90.01         90.01         90.01         90.01         90.01         90.01         90.01         90.01         90.01         90.01         90.01         90.01         90.01         90.01         90.01         <	976.1 672.7							70.59	983.0
394768         754.1         141.84         62.7         141.2         185.4         28.7         28.7         47.7         990.1         477.9         666.96         0.9         990.1           397044         566.2         168.34         98.85         4.34         185.4         34.7         147.4         50.0         96.0         96.0         99.0           397144         566.2         168.34         98.85         4.34         185.4         147.4         87.2         16.1         566.50         0.9         99.0           39708         59.0         112.8         12.6         15.8         12.6         12.8         12.6         19.0         99.0         19.0         99.0         19.0         99.0         19.0         99.0         19.0         99.0         19.0         99.0         19.0         99.0	587.6 522.7				64.18			36.06	662.9
397044         5662         168.94         98.65         4.34         185.54         34.12         147.4         87.2         105.1         508.0         566594         0.19         92.1           397134         5662         116.1         58.6         63.4         5.8         133.76         22.3         5.61         94.0         469.9         566.64         0.19         92.1           397148         58.6         116.1         76.86         17.8         12.8         27.3         103.4         31.6         96.0         0.18         93.0           39708         591.0         113.2         24.59         40.2         52.2         16.2         103.4         31.6         36.0         10.8         36.0         18.0         36.0         18.0         36.0         18.0         36.0         18.0         36.0         18.0         36.0         18.0         36.0         18.0         36.0         18.0         36.0	990.1 477.9				37.51			61.39	967.4
397134         652,7         11283         60.34         5.98         13976         22.21         22.38         6.61         94.0         459.9         566847         0.23         92.0           397408         28.36         116.1         63.16         1.76         22.32         7.34         6.78         1034         316.6         0.59         55.2           397646         591.0         13.12         7.48         22.3         7.48         6.70         1034         316.6         0.59         55.2         1034         316.6         0.59         6.70         10.34         316.7         43.0         66864         0.23         6.89         10.34         316.6         0.59         6.50         6.50         6.20         6.20         10.34         49.0         66860         0.59         6.20         6.20         10.34         49.0         66860         0.59         6.20         10.24	105.1 508.0							67.81	66.4
397408         5910         1112         63.16         1.58         122.32         734         5.28         103.4         316.8         566364         0.18         930           397408         5910         141.25         14.85         2.70         154.88         25.23         734         6.70         144.3         490.0         566846         0.18         930           397428         5910         4.023         24.59         1.02         1.42         6.60         0.04         1.43         490.0         566846         0.18         930           396434         306.4         1.02         21.20         21.24         1.02         2.03         1.25         1.03         566846         0.18         930           396434         306.4         1.02         21.02         21.02         28.0         1.42         1.03         1.03         3.99         56671         1.05         1.03         1.03         3.99         1.06         3.99         3.60         1.00         3.99         3.60         3.40         3.90         3.60         3.40         3.60         3.42         3.60         3.42         3.60         3.42         3.60         3.42         3.60         3.42 <t< td=""><td>94.0 459.9</td><td></td><td></td><td>7 18.90</td><td></td><td>7.37 2.4</td><td></td><td>42.51</td><td>24.</td></t<>	94.0 459.9			7 18.90		7.37 2.4		42.51	24.
397098         591.0         131.25         74.85         2.0         164.88         26.0         163.4         6.70         144.3         490.0         566646         0.18         930           397546         420.0         40.23         24.59         40.2         52.36         8.47         194.0         293         123.7         566024         0.7         47.9           386442         50.6         410.2         52.36         8.45         280.7         56.4         199.1         626.7         566.7         47.9         47.9           398343         68.14         76.30         42.59         14.27         95.10         17.2         28.9         56.7         566.7         566.7         17.9         17.8         39.7         38.7         47.0         17.8         18.8         47.0         17.8         39.9         66.7         17.2         47.0         18.9         47.2         59.8         47.2         47.0	103.4 316.8						3.08	41.37	206.2
397545         400.9         10.5         40.2         5.3         8.4         194.0         2.93         173.7         213.3         566024         0.7         47.9           396442         9064         182.69         105.61         97.0         217.36         38.45         280.7         95.4         199.1         682.6         566288         0.7         47.9           396741         76.3         42.59         162.4         152.4         182.6         18.2         18.	114.3 490.0							53.76	53.5
396442         9064         182.69         105.61         9.70         217.96         36.45         280.7         9.54         199.1         682.66         6862.88         0.37         135.7           396741         77.3         133.38         78.24         192.4         156.24         27.26         286.0         742         189.0         565.7         665.7         0.08         106.3           396343         631.4         76.30         42.59         14.27         95.10         15.15         314.5         424.0         339.9         565.7         10.84         10.96         26.04         45.84         312.7         10.79         139.5         566.08         0.08         10.66         26.04         45.84         312.7         10.79         139.5         566.08         0.09         10.07         10.07         10.07         10.02         566.08         0.00         10.07         10.07         10.07         10.07         10.08         566.08         0.00         10.00         37.5         10.08         36.04         31.7         10.07         10.07         10.09         56.04         4.84         31.2         10.09         10.06         26.04         4.84         31.2         10.09         56.04	123.7 213.3		,					18.48	88.4
396711         77.3         133.38         78.24         92.4         165.24         27.80         7.26         7.80         7.42         189.0         526.7         565.71         0.66         10.63           396343         631.4         7.63         42.59         14.27         95.10         151.5         314.5         44.0         339.9         565.75         13.17         17.81         44.0         339.9         565.76         13.17         17.81         44.0         12.24         566.76         0.00         17.81         59.6         11.0         18.24 <td>199.1 682.6</td> <td></td> <td></td> <td>.,</td> <td>68.71</td> <td>12.72 2.62</td> <td></td> <td>71.72</td> <td>63.2</td>	199.1 682.6			.,	68.71	12.72 2.62		71.72	63.2
396343         6314         76.30         42.59         14.27         95.10         15.15         314.5         4.48         424.0         339.9         566775         1.25         75.1           396692         886.2         101.16         57.55         18.45         131.17         20.69         402.3         551.6         561.6         5652.8         0.00         108.7           397746         21.92         886.2         101.16         57.55         18.45         131.17         20.69         42.2         59.6         51.6         50.20         50.60         10.87           39637         20.25         20.54         12.05         10.96         220.44         41.83         20.45         11.07         14.89         50.60         51.1         12.89         50.60         51.1         10.07         50.60         10.11         12.88         20.45         11.07         14.89         22.94         41.89         22.44         41.89         52.44         41.89         52.44         41.89         52.44         41.89         52.44         41.89         52.44         41.89         52.44         41.89         52.44         41.89         52.44         41.89         52.44         41.14         40.29	189.0 526.7		129.9 70.0					55.52	155.4
395692         886 2         101.16         57.55         18.45         131.17         20.69         40.23         55.16         56.16         566528         0.00         108.7           397746         219 2         88.11         49.29         2.26         97.06         17.28         59.66         3.46         81.2         22.48         566588         0.01         37.5           396374         922.5         225.78         127.59         10.06         22.394         4.684         312.7         10.79         148.3         662.2         566.84         0.01         37.5           396637         69.05         110.77         64.18         17.1         10.99         566.84         0.02         566.84         0.02         10.07           396637         69.05         110.77         64.18         14.13         20.44         4.18         20.44         4.10         4.89         28.94         4.10         4.09         10.00         37.2         96.84         91.59         11.64         4.10         92.84         11.5         4.00         92.2         92.44         4.18         3.02         11.4         4.00         8.66         96.84         91.5         11.6         92.2         96.8	424.0 339.9				52.85			27.83	491.1
397746         219.2         88.11         49.29         2.26         97.06         17.28         59.6         3.46         81.2         22.48         668081         0.10         37.5           396371         32.5         22.578         177.59         10.96         250.44         4.544         312.7         10.79         199.5         668.8         6567.8         0.70         37.5           396372         69.62         205.44         1.07         64.18         1.07         11.78         396.9         11.10         148.3         662.2         566548         0.20         155.3           396837         69.05         110.77         64.18         7.40         14.89         28.36         11.1         148.3         665.8         0.20         155.8         106.0           396634         10.77         64.18         7.40         14.89         28.36         11.54         470.0         565721         0.20         155.8           396579         72.02         16.26         97.40         14.4         47.1         17.2         565721         0.20         15.2           396779         6.23         12.4         44.1         47.1         17.2         17.2         17.2	551.6 502.0		110.3 181.6	.6 17.24	46.00	6.89 5.13	13 20.76	40.46	564.5
3966371         92.5         225.78         127.59         10.96         250.44         45.84         312.7         10.79         139.5         698.8         6651 58         0.29         135.3           396632         9860         265.44         10.77         6.40         223.39         4.183         204.5         11.10         148.3         602.2         565.84         0.29         110.7           396634         6.90         26.54         120.79         6.40         223.94         4.183         204.5         11.10         148.3         662.8         565.44         0.29         110.7           396634         10.27         64.18         7.40         134.90         22.88         11.10         148.3         665.84         0.29         160.9         9.64         10.0         9.64         9.64         9.64         9.64         9.64         9.64         9.64         9.64         9.64         9.64         9.64         9.64         9.66         9.11         9.66         9.64         9.64         9.64         9.64         9.64         9.64         9.64         9.64         9.64         9.64         9.64         9.64         9.64         9.64         9.64         9.64         9.64	81.2 224.8							29.76	62.1
396632         696 0         205.54         120.79         6.40         22.394         41.83         204.5         11.0         148.3         602.2         665367         0.36         11.0           396637         696 0         205.54         40.08         22.88         21.1         129.8         40.80         565484         0.23         10.0           396637         92.3         64.08         10.1         17.2         81.40         22.88         21.8         15.1         40.0         565484         0.23         10.0           39637         92.3         10.1         7.4         13.49         22.88         23.8         15.1         47.0         566784         0.22         10.0           396534         74.7         68.70         37.1         40.6         684.3         39.1         566784         0.22         10.0           396534         74.7         68.70         37.1         40.8         37.1         40.6         684.3         39.1         56578         0.22         106.0           39657         72.2         16.4         70.7         40.2         28.1         40.6         68.3         67.4         40.9         68.3         67.1         10.6	139.5 698.8							85.12	89.0
398617         8842         99.23         54.08         10.11         127.83         19.73         386.9         5.11         129.8         480.8         655484         0.23         106.0           398695         690.5         10.77         64.18         7.40         134.90         22.88         237.4         5.96         151.4         470.0         565642         0.22         96.4           396536         7.47         64.18         7.48         22.88         13.19         77.4         4.00         664.3         391.5         565721         0.22         96.4           396536         7.47         166.7         1.34         20.78         4.48         6.87         31.5         7.49         6.67         93.1         665721         0.22         96.4           396579         7.70         16.04         9.74         40.29         2.81.1         10.61         27.4         6.30         10.4         10.6         10.2         10.6         13.9         10.4         10.6         10.2         10.6         10.2         10.6         10.2         10.6         10.6         10.2         10.6         10.2         10.6         10.6         10.6         10.2         10.6         10.2 </td <td>148.3 602.2</td> <td></td> <td></td> <td>.8 32.36</td> <td></td> <td></td> <td></td> <td>84.50</td> <td>264.5</td>	148.3 602.2			.8 32.36				84.50	264.5
396695         690.5         110.77         64.18         7.40         134.90         22.88         237.4         5.96         151.4         470.0         656642         0.22         96.4           396837         923.9         110.77         64.18         7.46         24.107         44.89         283.8         11.58         172.8         724.9         656742         0.22         96.4           396254         7.47.4         66.70         3.74.6         63.1         667.2         668.2         0.50         139.3           396254         7.47.4         66.70         3.04         224.1         7.77         4.06         684.3         391.5         565712         0.53         180.3           396279         7.20         160.46         90.46         8.71         172.5         30.9         127.4         66.7         0.50         139.3           396679         7.20         160.46         90.46         8.71         172.5         30.0         1072         212.5         566.9         0.30         140.4           396679         2.94         2.24         79.70         14.44         66.1         30.0         1072         212.5         566.9         0.30         166.2	129.8 480.8					6.55 6.87		36.94	74.5
39657         23.9         21.9         21.0         12.6         24.107         44.89         283.8         11.58         172.8         724.9         565184         0.50         139.3           396534         747.4         68.70         37.42         13.98         93.98         13.19         371.7         4.06         684.3         391.5         565724         0.50         139.3           396536         165.27         116.27         11.44         207.76         40.29         224.8         633.1         565736         0.53         104.4           396679         720.2         1160.46         90.46         8.71         74.44         66.1         3.00         107.2         212.5         5660.96         0.24         3.01           396774         220.2         160.47         12.2         27.44         44.4         471.8         12.15         166.3         0.24         3.01           396774         220.2         16.2         23.5         14.44         471.8         12.15         166.3         0.24         3.01           396774         594.3         24.44         471.8         12.15         166.3         0.24         3.01         10.72         21.25         56493	151.4 470.0			9 18.57				44.31	72.5
396534         7474         6870         3742         1398         93.99         1319         3717         4.06         6643         3915         565721         0.53         88.0           396258         86354         195.27         146.23         1314         207.76         40.29         281.1         1061         274.6         633.1         565721         0.53         88.0           39678         720.2         156.46         90.4         871         172.53         39.3         24.3         524.9         552.3         566512         0.33         146.4           39703         632.1         160.46         871         172.53         44.4         471.8         12.15         166.3         777.9         564936         0.37         126.3           39703         362.1         108.6         89.35         6.38         140.77         21.62         257.4         50.3         177.9         564936         0.30         165.2           396072         562.0         24.4         471.8         12.15         166.3         777.9         564936         0.27         165.2           39677         584.6         52.01         24.4         471.8         12.15         166.3	172.8 724.9	•						93.15	67.5
986256         855.5         165.27         162.29         13.14         207.76         40.29         281.1         10.61         274.6         633.1         665.28         0.37         126.3           396767         72.02         150.46         90.4         87.1         172.53         39.39         24.8         85.3         234.9         552.3         56679         0.37         126.3           397678         23.5         16.2         23.5         14.4         66.1         30.0         107.2         212.5         566996         0.30         104.4           39703         63.2         1.2         2.3         1.4         47.18         12.15         166.3         77.79         56996         0.30         165.2           396072         1.2         1.2         4.4         47.18         12.15         168.3         77.79         566996         0.30         165.2           396072         63.2         1.6         2.5         1.4         40.77         2.16.2         257.4         5.0         1.2         4.9         6.2         1.0         1.0         1.0         1.0         1.0         1.0         1.0         1.0         1.0         1.0         1.0         1	684.3 391.5		80.5 221.3		61.05		27 16.73	25.64	799.2
396679         7202         160.46         90.46         8.71         172.53         30.93         24.28         8.53         244.9         562.3         5665612         0.33         104.4           397646         239.5         71.23         40.60         2.24         79.70         14.44         47.1         12.15         566966         0.24         39.1           397037         639.5         71.23         40.60         2.24         79.70         14.44         47.1         16.5         566.36         0.30         16.5           397037         632.1         2.44         47.7         2.16.2         24.74         40.7         566.36         0.30         16.5         39.1           39677         594.3         2.77.7         4.82.6         3.50         893.7         565.76         0.30         16.5         16.5         16.6         16.6         10.5         16.5         16.6	274.6 633.1					14.50 4.2		84.40	185.7
39/046         239.5         71.23         40.60         22.4         79.70         14.44         66.1         3.00         107.2         212.5         566.96         0.24         39.1           39/042         1240.0         216.47         129.46         216.2         235.91         44.44         471.8         12.15         166.3         777.9         564.936         0.30         165.2           39/032         632.1         144.02         29.4         257.2         49.82         143.4         11.94         169.4         644.5         565.80         0.30         165.2           396679         594.3         243.17         144.02         2.94         257.2         49.6         3.50         893.7         343.7         5667.86         0.32         165.3           396674         519.1         112.51         63.33         9.56         152.24         22.8         367.5         6.08         143.7         567.0         567.0         10.1           396674         919.1         112.51         63.33         9.56         152.24         22.8         367.5         6.08         143.7         570.3         56539         0.30         120.4           39756         13.8 <t< td=""><td>234.9 532.3</td><td></td><td></td><td>7 24.60</td><td></td><td>11.22 3.08</td><td></td><td>65.42</td><td>202.3</td></t<>	234.9 532.3			7 24.60		11.22 3.08		65.42	202.3
396012         7440         7184         4718         715         166.3         777.9         564936         0.30         165.2           397033         632.1         108.58         53.56         638         140.77         216.2         257.4         50.3         173.2         439.7         56638         0.27         166.5           396773         562.1         140.2         29.4         257.27         16.8         257.4         50.3         143.7         56638         0.27         166.5           396779         584.6         52.0         31.12         15.8         70.4         10.6         89.7         34.7         567.6         0.22         85.7           396779         638.4         182.13         105.80         9.5         20.495         37.08         190.5         9.4         177.0         550.4         566509         1.66         101.1           396774         919.1         112.5         63.3         9.5         152.24         22.88         367.5         6.08         143.7         570.3         565396         0.30         120.4           39759         6.8         19.5         14.8         25.8         37.5         418.6         6.7         1	277.7 7.01				70.17			24.54	1/0.4
396679 5943 243.17 144.02 2.94 267.27 49.82 143.4 119.4 159.4 595.7 595080 0.21 105.3 396679 5943 243.17 144.02 2.94 267.27 49.82 143.4 119.4 159.4 614.5 565796 0.22 105.3 396674 919.1 112.51 63.33 9.56 152.24 22.88 367.5 6.08 143.7 570.3 565786 0.22 105.3 397.9 638.4 182.13 105.80 9.50 20.495 37.08 190.5 9.47 177.0 550.4 565706 0.22 105.3 396674 919.1 112.51 63.33 9.56 152.24 22.88 367.5 6.08 143.7 570.3 565396 0.30 120.4 36284 1014.5 126.1 67.14 164.5 148.39 24.53 418.6 6.57 117.5 588 258864 0.43 128.1 397396 384.6 124.67 7231 2.96 137.99 25.88 170.1 6.03 144.2 349.3 565891 0.40 63.5 397461 403.8 98.02 52.98 25.8 120.19 134.1 115.9 44.3 86.1 344.2 565818 0.40 63.5 39559 0.09 106.06 50.26 13.50 138.3 20.06 286.4 3.09 1216.7 467.0 565575 0.78 95.0	166.3 ///.9			34.69	52.14	16.43 6.55	13.06	95.40	0.47
396674 919.1 112.51 63.33 9.56 15.22 28.8 367.5 6.08 143.7 570.9 10.08 26.52 13.00 20.20 2	153.2 439.7	,			04.47 108 26	0.01 3.48		30.07	B 6
396774 919.1 112.61 63.33 9.56 152.24 22.88 367.5 6.08 143.7 570.3 568509 1.66 101.1 26.0 5.04 143.7 570.3 568509 1.66 101.1 5.05 1.05 1.05 1.05 1.05 1.05 1.0	893.7 343.7		•		24.03			23.45	982.2
396674 919.1 112.51 63.33 9.56 152.24 22.88 367.5 6.08 143.7 570.3 565395 0.30 120.4 36241 1014.5 126.10 67.14 16.45 148.38 24.53 418.6 6.57 117.5 558.2 558564 0.43 128.1 397396 3846 124.67 72.31 2.96 137.96 25.68 110.1 6.03 114.2 349.3 565564 0.21 6.26 397397 106.05 50.26 120.07 138.3 20.06 2864 3.09 1216.7 467.0 565575 0.78 95.0	177.0 550.4				71.29			73.54	87.0
367396 3846 12467 72.31 2.96 13.796 25.68 110.1 60.3 114.2 349.3 568584 0.43 128.1 6.26 397396 384.6 124.67 72.31 2.96 13.796 25.68 110.1 60.3 114.2 349.3 568584 0.21 6.26 397461 40.38 98.02 52.98 2.58 120.19 19.41 115.9 4.43 86.1 344.2 568581 0.40 6.35 394550 700.9 106.06 50.26 13.50 13.83 20.06 286.4 3.09 12.16.7 457.0 568575 0.78 9.50	143.7 570.3				71.93	_		43.97	74.8
397396 3846 12467 72.31 2.96 137.96 25.68 110.1 6.03 114.2 349.3 565864 0.21 6.2.6 397461 403.8 98.02 52.98 2.58 120.19 19.41 115.9 4.43 86.1 344.2 565881 0.40 6.3.5 394550 700.9 106.06 50.26 13.50 13.83 20.06 286.4 3.09 1216.7 467.0 565875 0.78 9.50	117.5 558.2				80.27			50.33	40734.8
397461 403.8 98.02 52.98 2.58 120.19 19.41 115.9 4.43 86.1 3.44.2 565881 0.40 63.5 3.94550 700.9 106.06 50.26 13.50 138.33 20.06 286.4 3.09 1216.7 467.0 565875 0.78 950 1	114.2 349.3	0.21 62.6			35.81			47.36	52.2
394550 700,9 106,06 50,26 13,50 138,33 20,06 286,4 3,09 1216,7 467,0 565875 0,78 95,0 1	86.1 344.2			2 16.22	46.04		38 5.26	33.51	71.2
	3.09 1216.7 467.0 565875	0.78 95.0	121.2 272.2	2 18.66	40.72	5.22 5.82	3.51	26.92	982.1
LB037 329 ap6 396931 672.7 165.64 83.29 4.66 201.56 31.72 187.4 5.93 105.1 565.8 565509 0.24 104.0 153.7	105.1 565.8	0.24 104.0	153.7 75.0	.0 27.87	52.78	9.25 2.41	41 4.10	47.29	59.9
LB037 329 ap7 396948 801.8 101.12 55.67 6.09 133.86 19.88 319.9 5.16 105.5 491.9 565538 0.60 103.4 110.5	105.5 491.9		110.5 79.9	9 17.16	40.03	6.64 2.91	91 8.56	37.93	65.3
*All alamante ara in num									

Appendix C: Eastern Sunda arc apatite trace element chemistry (LA-ICP-MS)

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Analysis ID	Ca	Ce	Dy	Er	Eu	Gd	Но	La	Lu	Na	PN	Ь	Pb	Pr	Sm	Sr	Tb	Th T	Tm	n	>	Yb	Fe
LB037_329_ap8	397722	231.3	82.39	48.22	2.89	86.80	16.43	9.99	4.38	106.7	216.8	266099	0.26	37.9	65.3	71.2	13.21	26.57	5.87	0.83	3.63	32.96	29.0
LB037_329_ap9	396210	779.2	183.32	99.03	20.97	219.47	35.67	264.1	8.43	316.2	618.6	565393	0.40	116.9	172.5	138.2	30.11	46.32	12.07	4.30	8.72	68.21	254.5
LB042_331_ap1	393274	1671.4	175.78	89.70	24.10	212.71	32.37	588.0	8.90	1239.9	1033.6	564927	0.85	223.3	227.2	285.3	29.21	7.43	11.45	2.60	27.60	67.07	840.1
LB042_331_ap10	392615	2149.3	184.91	84.88	23.91	241.80	31.87	796.3	8.18	1248.4	1295.4	564472	0.83	288.8	279.4	250.9	32.36	10.74	10.01	3.00	26.15	62.43	882.8
LB042_331_ap12	392714	2345.4	205.97	101.86	23.06	275.90	37.27	787.0	10.07	1018.8	1382.4	564197	0.85	300.9	286.2	263.6	35.60	21.50	13.12	4.74	18.56	74.30	881.5
LB042_331_ap13	392875	2074.8	240.78	114.71	20.41	305.86	43.65	661.1	9.17	1046.1	1372.0	564350	1.15	286.9	316.7	209.7	41.57	17.84	13.29	3.03	25.29	74.30	895.8
LB042_331_ap14	392253	2794.0	193.76	93.85	29.82	273.58	35.03	1002.4	90.6	967.3	1561.4	563804	1.13	351.2	308.4	252.6	34.61	13.65	11.77	3.06	13.72	67.55	924.1
LB042_331_ap15	392707	2245.4	209.50	99.56	22.88	287.13	37.18	821.4	9.01	1103.1	1398.4	564267	0.94	305.9	315.1	235.8	37.82	13.23	11.69	2.94	17.26	70.05	779.9
LB042_331_ap16	393358	1914.0	163.51	75.87	24.55	217.34	28.64	723.0	7.28	975.6	1168.1	564598	1.10	255.7	249.3	266.7	29.11	99.9	8.93	1.82	17.43	53.36	855.3
LB042_331_ap17	392465	2323.7	203.57	94.93	23.22	260.66	35.77	873.4	8.97	1151.9	1381.2	564245	1.33	303.3	294.3	216.6	35.64	11.78	11.85	4.19	19.15	67.58	966.2
LB042_331_ap18	393662	1638.3	184.08	87.66	20.49	238.52	32.89	583.4	8.35	903.4	1073.0	564757	1.1	225.5	242.5	221.9	31.68	9.48	10.54	2.19	19.33	62.80	982.5
LB042_331_ap19	391545	2004.6	203.14	96.70	21.67	270.50	37.00	724.3	8.77	1110.1	1255.4	564220	0.89	271.9	289.8	224.7	35.21	10.25	11.63	3.14	20.47	26.79	2565.6
LB042_331_ap2	391503	2091.8	184.25	86.46	23.96	245.25	32.65	784.6	7.88	1156.3	1269.8	564217	0.92	283.3	270.9	252.0	32.41	9.39	10.38	3.19	21.69	61.83	2450.6
LB042_331_ap20	392551	2194.1	216.13	98.96	21.18	284.38	38.06	799.4	8.57	1213.5	1309.2	564369	1.30	295.4	303.2	268.8	37.48	9.66	11.26	2.54	21.01	69.79	879.4
LB042_331_ap21	393775	958.2	122.28	56.53	30.39	172.14	21.69	343.0	5.10	1007.7	727.4	565349	1.37	142.8	169.3	272.1	21.77	4.77	09.9	1.47	23.24	39.18	1748.0
LB042_331_ap22	393415	1755.9	110.09	53.52	25.16	156.12	20.46	674.8	5.77	1053.9	964.4	564878	1.12	222.3	180.1	278.2	19.59	7.10	6.88	2.04	22.89	41.25	1104.9
LB042 331 ap23	393055	2061.0	122.07	59.40	24.96	178.54	22.28	755.2	6.17	1130.3	1121.9	564664	1.1	254.7	208.7	258.4	22.03	7.17	7.35	1.93	26.41	44.82	964.9
LB042_331_ap4	393055	2003.6	147.22	71.13	23.09	197.07	26.41	712.7	6.83	1103.5	1111.0	564650	1.18	252.8	222.9	256.8	25.86	9.43	8.81	2.61	24.88	52.83	1033.7
LB042_331_ap5	393854	1496.6	86.61	41.23	25.06	134.75	15.84	577.0	4.31	842.1	840.0	564978	0.87	190.1	153.4	414.1	16.34	9.58	5.13	2.13	33.59	30.36	1248.2
LB042_331_ap6	392813	1998.8	201.62	92.54	23.87	266.62	35.99	725.6	8.46	1042.8	1294.5	564414	06:0	275.1	280.6	248.0	35.50	10.88	10.70	2.73	17.59	67.74	1131.7
LB042 331 ap8	391152	1883.5	374.94	182.59	26.84	434.81	69.99	594.9	18.85	1345.3	1570.1	564029	1.89	292.3	418.2	344.0	63.15	12.35	22.55	2.38	17.53	137.88	2006.7
LB042_331_ap9	392990	1731.2	197.95	94.08	22.94	273.69	35.66	635.1	7.92	1275.8	1160.0	564780	1.15	243.3	268.9	266.6	35.81	7.01	10.55	1.93	23.63	61.24	874.3
ELF-03_333_ap1	397008	267.4	78.70	35.16	20.96	97.41	13.63	75.7	3.30	224.5	252.9	566001	0.54	45.0	80.2	174.3	14.06	3.49	4.28	0.87	0.62	24.33	573.5
ELF-03_333_ap10	396905	334.0	75.34	39.60	18.55	86.45	14.43	117.0	4.30	291.8	257.8	265987	4.79	49.3	73.6	203.4	12.86	8.90	4.88	0.57	2.78	28.51	475.3
ELF-03_333_ap11	397092	303.2	67.17	31.84	19.05	84.08	12.19	7.76	3.02	157.1	244.9	565968	2.76	46.5	72.8	164.4	11.68	3.44	3.71	0.18	1.77	22.78	587.6
ELF-03_333_ap12	397025	266.2	79.44	39.92	15.76	93.06	14.53	86.7	4.45	217.2	243.7	265987	2.59	42.7	7.77	166.6	13.34	31.38	5.07	2.18	0.95	31.32	550.6
ELF-03_333_ap13	397463	265.6	69.72	32.57	16.81	85.79	12.17	82.2	3.59	124.0	238.3	566042	0.17	45.9	75.6	133.3	12.25	1.71	4.26	0.17	2.37	26.52	265.4
ELF-03_333_ap15	397632	261.2	64.67	31.56	16.73	75.54	11.62	85.7	3.14	98.6	219.3	266069	1.19	40.1	69.3	144.1	10.89	3.37	3.91	0.16	0.93	24.77	130.2
ELF-03_333_ap16	375756	254.7	64.43	29.16	15.86	72.88	11.49	79.8	2.92	14942.0	211.9	572432	0.75	39.4	63.5	228.4	10.73	1.87	3.59	0.32	1.82	24.27	752.0
ELF-03_333_ap17	397630	234.9	73.88	29.49	17.10	100.20	11.86	61.8	2.65	100.6	254.1	566058	0.91	42.3	86.4	154.0	13.84	1.4	3.59	0.12	0.90	20.89	100.0
ELF-03_333_ap18	397025	296.9	96.89	33.68	15.72	83.56	12.37	93.0	3.35	230.5	246.9	565991	2.51	46.7	72.2	246.8	12.05	12.13	4.04	0.84	0.99	24.21	473.9
ELF-03_333_ap19	396782	322.7	71.26	36.21	16.66	83.29	13.20	110.8	3.75	264.5	247.5	565952	1.74	47.8	70.5	250.7	11.93	9.52	4.40	0.78	1.59	25.85	669.5
ELF-03_333_ap2	397340	241.6	71.07	35.54	14.46	84.31	13.25	73.5	3.89	164.9	222.9	266058	0.41	39.8	70.5	154.3	12.36	3.91	4.48	0.34	1.27	27.86	361.1
ELF-03_333_ap20	397283	253.4	58.03	27.73	15.00	72.04	10.46	78.6	2.70	180.8	217.0	566069	2.07	40.3	63.2	172.1	10.27	2.39	3.43	0.45	3.38	19.87	412.7
ELF-03_333_ap21	396575	200.7	138.39	196.06	12.95	109.33	42.82	172.1	91.80	185.6	375.4	565421	0.94	74.9	98.6	258.9	16.60	35.69	42.05	64.25	8.82	417.36	169.4
ELF-03_333_ap22	397059	336.8	82.88	42.25	17.96	97.09	15.41	106.7	4.72	217.0	278.8	565955	1.04	52.0	83.7	166.4	14.16	10.30	5.26	0.71	1.55	33.69	416.3
ELF-03_333_ap23	396901	320.1	82.55	46.68	18.79	91.61	15.84	109.8	5.15	282.0	258.2	565972	0.44	48.8	75.9	197.6	13.87	26.20	5.98	1.65	1:21	35.02	489.6
ELF-03_333_ap24	397008	319.5	70.12	35.60	17.39	86.43	13.01	106.2	3.50	287.9	255.5	566032	0.94	48.5	72.6	165.3	12.31	2.97	4.25	0.16	2.29	24.90	430.3
ELF-03_333_ap25	396952	289.4	60.27	27.66	16.70	76.88	10.64	92.3	2.58	358.8	235.6	566106	1.38	94.6	9'.29	168.2	10.78	2.12	3.36	0.23	1.12	19.69	450.3
ELF-03_333_ap26	397229	314.0	79.67	38.97	15.77	94.00	14.32	98.6	4.34	169.4	271.4	565965	0.69	49.1	84.7	168.1	13.96	27.02	4.87	2.23	96.0	31.01	322.1
ELF-03_333_ap27	397476	267.2	79.75	36.85	17.76	100.00	14.08	75.2	3.70	124.7	262.8	566022	0.85	46.8	9.98	131.6	14.44	1.86	4.54	0.33	2.63	27.66	201.1
ELF-03_333_ap28	397322	322.3	79.38	40.16	18.86	95.19	14.79	93.1	4.25	141.5	281.1	565964	4.18	52.6	84.5	163.8	14.31	4.75	2.08	0.27	1.52	30.56	257.7
ELF-03_333_ap29	396838	365.9	29.06	33.28	20.76	108.98	13.18	112.5	3.16	243.8	328.0	565898	3.27	9.69	6.66	175.1	14.96	11.93	3.96	0.76	1.15	23.41	558.8
ELF-03_333_ap3	397214	244.6	73.07	36.44	15.47	83.46	13.16	75.2	3.79	195.6	220.1	566048	0.78	38.6	71.5	161.8	12.48	11.52	4.42	1.02	1.08	29.14	443.9
ELF-03_333_ap4	396856	365.4	80.99	32.25	18.68	83.15	11.96	127.0	3.19	282.4	275.6	265970	96.0	53.6	74.5	185.5	11.78	2.43	3.90	0.37	1.98	23.25	549.4
ELF-03_333_ap30	397557	225.0	70.32	33.39	15.53	83.92	12.93	62.2	3.56	125.8	218.2	266087	3.12	38.1	2.69	137.2	12.07	2.60	4.30	0.20	0.67	25.27	209.3
ELF-03_333_ap31	396838	382.6	83.26	40.39	16.30	98.58	15.12	126.7	3.87	299.9	302.8	565945	2.17	26.0	86.8	172.1	13.98	2.38	5.03	0.21	1.67	30.24	475.3
ELF-03_333_ap32	397442	226.1	75.75	34.23	15.92	86.34	12.98	9.89	3.56	114.9	215.1	566047	4.58	37.3	72.6	155.8	13.08	1.51	3.96	0.11	1.75	25.75	337.4
ELF-03_333_ap33	397455	268.8	76.29	33.90	16.67	90.42	12.95	78.2	3.52	136.6	254.4	566029	9.21	45.5	83.5	136.8	13.54	2.31	4.72	0.29	4.01	26.52	209.6
ELF-03_333_ap34	397160	349.3	79.28	34.90	20.20	94.70	13.61	114.2	3.43	179.2	287.1	565945	2.82	54.9	91.9	163.9	14.05	2.73	4.43	0.26	0.73	28.20	353.2
¥*	*All elements are in ppm.	ents a	re in t	opm.																			

Appendix C: Eastern Sunda arc apatite trace element chemistry (LA-ICP-MS)

				•						•						,		•				
Analysis ID	Ca	Ce	Dy	Er	Eu	PS	H9	La	Lu	Na Nd	d P	Pb	Pr	Sm	Sr	Τb	Ţ	Tm	Π	۸	ΑÞ	Fe
ELF-03 333 ap35	397408	288.1	77.23	35.43	16.49	88.43	13.43	84.9	3.92		248.5	566004	1.87 4	45.3							28.87	277.0
ELF-03_333_ap36	397341	225.1	69.92	37.75	12.96	80.75	13.31	65.6	3.71	180.4		920999	1.75 3		63.2 18	•	11.88 22	22.19 4.69	.,	1.47	26.54	354.2
ELF-03_333_ap5	397067	305.6	81.53	41.50	15.24	94.76	14.89	94.9	4.83			565978		49.3	·				35 0.65	Ū	33.79	448.1
ELF-03_333_ap6	396949	324.3	75.17	37.56	15.60	93.17	13.41	103.7	4.01			_	6.89	1.9						5 1.14	27.74	504.6
ELF-03_333_ap7	397336	278.0	70.46	30.95	16.79	88.19	12.09	76.7	2.94			_	_			•				1.14	20.66	301.0
ELF-03_333_ap8	395803	341.0	113.82	60.16	22.63	123.79	21.10	116.2	7.31				6.63 5	54.0 10		•			15 2.36		54.00	1564.4
ELF-03_333_ap9	396973	316.2	67.23	29.38	17.37	90.76	11.95	98.9	2.54	298.3						180.0 12					19.88	455.4
GBF-04_335_ap10	397440	114.9	84.92	32.89	17.08	119.72	13.86	21.1													18.81	406.9
GBF-04_335_ap11	397177	169.0	126.25	57.40	17.58	155.77	22.68	31.5			269.7	566033									39.98	406.0
GBF-04_335_ap12	397680	113.4	94.91	41.14	10.97	115.98	16.29	21.8	3.67									0.26 4.9			28.65	228.5
GBF-04_335_ap13	397104	178.3	127.12	51.98	19.39	161.05	21.39	37.2				<b>~</b>									31.33	454.8
GBF-04_335_ap14	397128	159.1	134.17	53.21	23.02	177.57	22.62	24.6													31.94	409.1
GBF-04 335 ap15	396346	280.1	159.55	70.80	23.13	182.72	27.92	63.8			379.8	~									51.18	891.2
GBF-04_335_ap16	397147	155.6	122.74	53.11	19.15	162.12	21.09	29.4	4.17				4.53 3						16 0.08		34.72	463.3
GBF-04 335 ap17	396783	251.5	139.82	61.63	19.50	166.96	24.11	57.5													42.59	553.0
GBF-04_335_ap19	397404	100.2	109.84	41.23	16.85	152.43	17.57	14.5				566106	1.24 2	29.4 1	118.5		20.72 0	.23 4.49			24.18	351.3
GBF-04 335 ap2	396083	180.9	133.44	63.09	23.11	149.14	23.88	42.3													45.55	1279.4
GBF-04_335_ap22	396904	237.7	141.67	62.55	20.08	170.26	24.72	50.3				565923						0.27 7.6			43.29	534.1
GBF-04 335 ap23	397172	186.0	96.81	40.97	18.16	128.66	16.18	39.3													24.37	492.4
GBF-04_335_ap24	396825	194.0	156.64	90.79	28.33	200.04	27.76	34.6													44.18	415.4
GBF-04_335_ap25	397017	156.1	131.98	60.24	19.73	161.63	23.32	29.6													41.62	454.1
GBF-04 335 ap3	389031	1255.6	328.32	141.67	134.39	478.81	56.85	446.5	.,	•				226.1 43	430.4 1						93.04	1561.4
GBF-04_335_ap6	396566	300.1	162.94	71.03	24.64	191.94	28.02	62.9	7.22				0.18 6		158.7		_				55.83	636.8
GBF-04_335_ap8	391948	1626.3	330.45	119.60	164.84	563.98	51.19	511.0	•	•											73.94	1468.9
SPF-05_336_ap1	395932	639.4	136.41	54.46	24.61	200.76	22.32	178.4						110.6 19							33.73	665.7
SPF-05_336_ap10	385316	798.8	218.86	109.49	27.49	274.74	40.37	189.6													88.75	12782.3
SPF-05_336_ap12	396185	672.5	145.89	56.58	25.67	213.87	23.68	183.8				565501				185.1 28					37.54	364.2
SPF-05_336_ap13	396424	641.7	116.66	45.99	24.60	186.56	18.93	183.9	3.46					107.4 17							24.87	110.5
SPF-05_336_ap14	385348	461.8	175.45	78.62	22.05	217.06	30.56	78.4													55.26	13422.9
SPF-05_336_ap15	396343	620.8	139.71	53.30	31.81	214.14	22.57	120.3					0.45 11		209.6 13	130.7 28		43.93 6.1			33.49	30.9
SPF-05_336_ap16	396179	594.7	155.26	65.11	23.35	205.08	25.35	179.7					•								50.83	444.3
SPF-05_336_ap17	394323	1295.8	137.26	71.03	21.99	185.42	26.12	484.0	7.34			565016	•								51.27	965.0
SPF-05_336_ap18	395833	924.1	186.49	92.86	23.41	252.48	35.17	262.1													62.19	401.5
SPF-05_336_ap19	396133	648.9	172.89	71.01	33.38	251.03	28.98	155.5													49.27	221.0
SPF-05_336_ap2	395894	1000.2	179.65	92.68	27.65	243.67	33.90	292.4					•		214.3						72.54	170.3
SPF-05_336_ap20	396054	901.9	172.50	79.02	24.35	246.99	30.94	228.2									32.15 4				55.39	28.1
SPF-05_336_ap21	396225	561.0	131.71	52.27	27.89	199.72	21.75	126.9				565630	•								34.20	467.7
SPF-05_336_ap22	396229	565.5	169.80	72.32	27.10	231.22	28.35	99.4	6.16	583.9	677.4		0.29 11	116.3 2.		120.7 31	•	6.67 8.38	38 0.15	5 2.77	48.50	47.8
SPF-05_336_ap23	000000	1.0.16	140 64	23.5	9.04	34.04	07.00	0.45.0			, -	+ -			140.0		•				44 47	0.000.0
SPF-05_336_ap24	305046	7.28.3	143.50	94.24	26.75	231.03	24.63	280.4				_			•						4.13 C1.13	73.5
SPF-05_336_ap25	396227	708.7	166.54	65.60	26.65	234.90	26.31	194.0				565490					31.79				43.74	60.5
SDE-05_336_ap27	394467	687.0	213.96	89.00	34.64	291.18	34.85	143.6	7.04			_		133.1 26							57.13	1558.4
SPF-05_336_ap28	396035	612.3	217.92	84.05	29.82	307.88	36.04	85.1	4.86	556.8			0.27 13				•				43.26	28.6
SPF-05 336 ap29	394934	616.6	191.88	85.19	25.84	254.22	33.04	117.3	7.80		4,	565404				129.0 34					62.02	1382.2
SPF-05 336 ap3	396453	856.1	139.70	58.94	22.16	210.31	23.82	264.1	5.44		648.0	565441		127.5 18	187.2 14				33 1.47		36.72	45.5
SPF-05_336_ap30	396550	719.4	153.15	61.54	26.02	222.70	24.92	192.4	5.41	-		_	_	.,			29.98 2	.49 7.0	77.0 80	7 4.48	40.94	49.6
SPF-05_336_ap31	392836	265.7	125.79	44.10	23.73	184.84	18.99	161.8	3.73			565064	0.53 9		•		24.74 8	.61 5.16		_	31.07	4413.7
SPF-05_336_ap4	396342	775.3	149.60	59.35	24.59	225.92	24.61	230.0	4.66	386.0	4,	65504	0.77 12	126.7 20		141.3 29	29.30 2	.88 6.7	74 1.07	7 3.30	36.79	37.5
SPF-05_336_ap5	396457	612.6	137.34	51.04	22.64	216.20	21.25	151.6	3.78	435.1	352.0	565663	0.54 11	.,	217.4 12	8.6 27	27.78 3	.24 5.2	56 0.64	4 2.12	30.54	49.1
**	*All elements are in ppm.	ents ar	e in p	pm.																		

Appendix C: Eastern Sunda arc apatite trace element chemistry (LA-ICP-MS)

Ol civilory	ć	ć	à		ä	7	3	-	=	-	7		á	å	å	ŕ	,	F	,  =	>	\$	ŭ	Γ
Alialysis ID	00000	200	2	1004	2	3	2 6	2400	2 2		-	7447		,	<u></u>	-	=	=	2	>	2 00	-	9
SPF-05_336_ap6	395311	1266.2	204.52	97.39	18.92	207.20	35.70	272.3	F9.FF	376.5	805.2	564854		155.2 179.4	T 1.812	6.141.9	35.80	31.16	13.02	0.69 2 14.42 6	2.32 80.67		421.7
SPF-U5_336_ap/	396108	665.2	121.00	46.17	22.05	194.80	19.16	188.9	3.27	370.9	619.2	56553											572.3
SPE-02_330_apo	396621	650.8	127.98	45 79	29.66	205.13	19.53	169.6	364	294 7	656.2	565580	•										46.8
NEF-02_337_ap1	395949	869.5	137.40	66.41	20.40	181.68	24.95	277.4	5.68	517.8	659.1	565497	0.54		159.6 2		23.60	6.15		1.66 7	7.13 42.07		179.9
NEF-02 337 ap10	395365	815.7	161.86	65.56	26.10	202.82	26.15	249.3	4.63	609.1	644.9	565460											762.9
NEF-02_337_ap11	393185	1946.9	164.27	74.76	22.48	215.03	27.46	686.4	7.50	1050.9	1121.5	564634		255.8 2									976.8
NEF-02_337_ap12	396209	781.6	112.91	42.71	26.64	171.19	18.30	260.3	2.20	425.3	584.7	565566							4.11				4.1
NEF-02_337_ap13	396294	638.1	119.31	47.02	24.86	163.85	19.87	207.5	3.21	492.1	9.609	565727					_			0.63 2	.73 26.07		7.0
NEF-02_337_ap14	395988	1161.8	63.44	25.60	22.79	95.54	10.80	446.4	2.34	434.1	612.2	565415	0.47										1.7
NEF-02_337_ap15	396152	728.8	109.20	50.70	32.16	142.52	19.14	228.6	4.79	424.1	567.1	565597					_		6.30				388.1
NEF-02_337_ap16	396334	768.8	111.63	39.92	22.40	172.85	18.42	244.7	1.98	400.4	572.6	565593											9.3
NEF-02_337_ap17	396307	785.8	141.21	54.12	18.91	203.72	23.62	211.7	3.02	378.2	683.0	565499									.08 25.30		4.8
NEF-02_337_ap18	393428	1689.2	87.44	37.86	20.08	133.47	14.94	646.6	4.06	973.7	9.998	564914	2.03	204.7						3.26 14			1417.3
NEF-02_337_ap19	393210	1205.8	132.22	67.93	23.55	166.96	23.01	412.1	8.09	495.9	808.7	564725											7.7
NEF-02_337_ap2	395113	1221.7	106.13	49.36	19.64	141.35	18.88	430.8	4.56	624.5	749.1		0.92								.71 36.52		90.5
NEF-02_337_ap20	396107	674.2	86.59	43.95	18.75	110.72	15.88	235.3	4.67	387.2	471.5												1.1
NEF-02_337_ap21	395851	757.4	113.37	57.45	17.28	144.63	21.53	209.9	6.07	560.8	573.7			116.7				6.01	7.24				5.4
NEF-02_337_ap22	395588	711.4	45.55	20.17	14.76	70.64	7.94	274.1	1.99	622.8	436.1	565717											781.8
NEF-02_337_ap23	396553	548.2	95.74	42.10	28.57	123.28	16.05	182.5	3.53	327.9	411.6												03.0
NEF-02_337_ap24	395350	787.1	48.53	21.37	14.62	74.07	8.18	304.5	2.44	545.5	474.9							3.78					3.7
NEF-02_337_ap25	394417	1046.1	58.77	27.12	17.59	88.52	10.23	398.1	2.67	746.3	586.1												0.0
NEF-02_337_ap26	396226	643.0	124.50	55.13	29.46	153.34	21.52	212.4	4.48	418.0	498.7										19 34.41		352.9
NEF-02_337_ap27	395100	984.8	146.37	61.59	28.16	194.66	24.60	318.1	4.47	612.5	725.4												6.2
NEF-02_337_ap28	395394	818.6	82.87	41.71	26.21	110.96	15.06	274.0	4.26	461.9	548.9			116.4		240.0							92.8
NEF-02_337_ap29	395686	1027.5	124.30	47.61	18.54	184.61	20.54	339.4	2.56	548.3	702.1												7.6
NEF-02_337_ap3	395740	788.9	76.77	34.91	16.96	112.29	13.38	242.3	3.21	352.6	557.0	565497		•				4.12					1092.4
NEF-02_337_ap31	394872	807.9	41.49	18.74	14.90	69.10	7.50	308.9	2.05	710.2	482.5												8.1
NEF-02_337_ap32	393653	1388.3	125.95	77.12	23.91	141.32	25.38	519.8	9.15	1044.2	781.8												6.8
NEF-02_337_ap4	395612	1347.1	84.26	39.03	22.21	113.97	14.61	514.7	3.70	331.6	733.6					348.6							366.3
NEF-02_337_ap5	395724	808.9	53.57	25.68	16.85	82.84	9.53	304.1	2.44	489.9	501.7												0.4
NEF-02_337_ap6	393874	1473.9	113.52	60.75	24.00	144.89	21.15	553.1	29.9	841.0	819.0	564995											5.1
NEF-02_337_ap7	394505	1118.0	82.70	40.50	18.69	116.82	14.91	409.8	3.85	763.3	674.4												6.9
NEF-02_337_ap8	396790	522.9	70.78	30.56	15.95	121.94	12.25	154.4	2.34	363.2	454.6			85.2			14.61		3.08			10 167.8	87.8
NEF-02_337_ap9	393859	1438.9	141.85	73.36	23.34	174.29	25.31	525.1	8.97	1002.5	840.3												0.1.
ELF-01 ap1	395955	656.0	171.53	94.83	21.07	195.37	33.29	191.6	10.75	338.1	606.1		0.21					15.43	11.99	2.13 2	2.92 73.11		725.1
ELF-01 ap10	395037	1109.9	103.66	57.09	13.42	139.64	20.55	401.3	6.11	591.2	669.4												883.9
ELF-01 ap11	396447	483.6	123.03	73.48	21.64	133.11	24.10	155.1	9.75	406.4	399.7			74.6			19.87 3						433.2
ELF-01 ap12	396195	360.9	148.51	78.96	20.44	161.46	28.71	95.0	9.02	559.4	393.8								10.13			,	602.8
ELF-01 ap13	393037	1328.5	14.7	00.47	0.00	25.79	42.34	523.9	9 4	1025.0	740.0				7.101	200.0							1004.0
ELF-01 ap14	200000	9.049 0.03	476.04	124.23	11.12	231.02	45.59	280.8	7	2.14/	49.6	202128	0.83	7.041							•	,	7.1871
ELF-01 ap15	305020	513.4	126.47	20.52	17.67	140.68	24.50	2 2 2 2	40.5	308.0	440.0	565653	0.23				21.20						077.4
ELF-01 ap16	396236	3826	156.31	23.30	20.17	173.85	20.76	100.3	0.72	459.0	417.1	565804	0.55	•	•						_		661.1
ELF-01 ap17	391994	2007	240.82	167.29	30.36	209.39	51.79	231.5	26.52	7.797	567.5	564837	0.64	,							•	,	1306.8
EL F-01 ap19	395829	580.7	217.76	130.31	22.78	211.60		163.1	16.79	440.5	539.7	565486	0.36	•				26.75		7.67	1.95 115.26		691.6
EL 01 ap15	395173	863.4	145.20	85.69	17.48	180.24		310.8	10.51	472.1	609.3	565280	0.59	,			_		,			_	1150.3
ELF-01 ap20	394997	584.9	196.82	118.13	23.25	209.67	40.68	163.7	15.09	540.5	6.799	565396	0.47					,	01				1491.2
ELF-01 ap21	395586	550.8	219.20	129.35	18.69	229.59	44.21	129.0	15.18	629.1	599.0	565575	0.80	100.9	189.9	33.9	4.77	•	16.74		1.57 107.32		6.999
ELF-01 ap22	395140	632.6	164.97	99.79	16.78	177.67	33.45	172.1	14.26	391.1	534.1	565353	0.58	99.4	151.5	45.8	5.20 4	13.04	3.94	1.05	_		1682.4
	*All elements are in ppm.	ents a	re in p	pm.																			

Appendix C: Eastern Sunda arc apatite trace element chemistry (LA-ICP-MS)

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Analysis ID	Ca	Ce	Dy	ш	En	g	웃	La	r T	Na				0)	0)	_	È	Ē	_	>	_	_	
ELF-01 ap23	394987	797.0	224.32	121.09	24.22	242.45	42.92	244.3	14.92	579.4	7.17.7	565242									_	_	
ELF-01 ap24	394095	1917.0	159.27	83.72	20.15	223.66	30.74	718.3	7.97	460.6	1166.4	564354								_	3 58.40		
ELF-01 ap25	396764	175.1	110.23	66.28	18.82	113.19	22.90	45.4	8.48	310.4	206.1	566027								63 0.37			
ELF-01 ap26	395166	800.8	196.38	119.27	24.23	217.94	39.46	244.3	15.77	567.4	673.0	565305	•			182.5 3		•					
ELF-01 ap27	395193	752.6	245.88	146.79	21.76	240.05	49.93	222.3	19.74	647.4	702.0	565328									_		
ELF-01 ap28	395201	963.6	125.73	73.89	19.50	159.64	24.68	£ 5.	12.00	477.0	682.0	565259					21.45	11 11	7.00			1045.9	
ELF-01 ap29	395494	613.5	119.18	68.51	18.91	141.49	24.02	185.2	8.87	364.2	503.5	565332	,				,				,		
ELF-01 ap3	394283	7.44.	291.29	190.22	26.34	266.96	60.72	229.1	27.87	752.4	675.7	565149				-				88 2.53			
ELF-01 ap30	395274	583.4	276.73	170.55	23.98	256.69	56.36	151.1	21.86	524.0	602.0	565328	0.39		205.9	47.8		38.94 23	23.36 9.29		7 148.56	978.9	
ELF-01 ap31	393997	4. 1.	100.02	90.47	20.03	102.93	32.00	0.7.7	4 5 5 5	300.7	9.0.0	202202											
ELF-01 ap32	396219	565.5	153.71	70.16	21.45	220.52	28.00	147.7	5.94	373.8	632.9	565572		103.0				•					
ELF-01 ap4	395608	512.4	221.03	152.73	24.63	186.03	47.66	157.8	23.08	501.1	436.2	565527	0.26					17.02 22	22.13 7.	31 0.75			
ELF-01 ap5	394973	1159.6	149.47	90.84	22.48	162.12	30.35	430.5	12.96	470.3	725.4	565068								14.85 9.6	4 83.82		
ELF-01 ap7	394937	1197.8	98.00	57.23	18.15	131.03	19.97	451.9	7.51	605.3	696.5	565213											
ELF-01 ap8	394683	1093.1	222.29	121.75	24.55	232.80	43.42	381.9	13.31	662.7	790.2	565066											
ELF-01 ap9	395215	536.6	233.81	146.41	25.58	226.34	47.97	156.0	20.65	483.4	549.0	565359											
ELF-02 ap1	395338	706.5	234.02	129.19	22.47	254.32	45.65	199.5	14.60	522.9	669.2	565301											
ELF-02 ap10	392583	399.1	178.85	115.83	28.22	173.46	37.95	116.8	15.84	643.2	382.9	565157											
ELF-02 ap11	394889	455.6	345.43	232.65	34.10	288.29	73.14	127.8	38.80	614.2	514.3	565243						64.26 35			1 252.13	1111.2	
ELF-02 ap12	391259	378.1	57.63	27.87	36.53	69.10	10.75	174.3	2.85	2929.0	225.0	566718											
ELF-02 ap13	396562	407.4	140.78	70.82	21.14	155.95	25.65	105.9	8.45	313.0	431.6	565763	0.38	72.7			23.31					495.4	
ELF-02 ap14	395293	602.4	257.20	168.56	40.63	223.98	54.85	196.8	26.06	443.5	520.5	565288											
ELF-02 ap15	394878	489.2	315.29	224.16	37.88	243.70	69.64	153.0	37.91	630.1	451.3	565320											
ELF-02 ap16	395277	552.8	255.53	163.70	29.77	239.73	53.07	172.4	23.92	413.1	508.0	565302			166.9								
ELF-02 ap17	396281	171.9	43.71	29.90	14.62	46.19	8.85	66.4	4.04	222.9	124.3	565928	1.26			435.8							
ELF-02 ap18	394234	742.7	368.89	256.66	35.46	322.54	80.75	217.1	40.22	715.8	694.0	564967											
ELF-02 ap19	396138	624.3	197.10	106.94	17.43	218.86	38.26	185.0	12.45	362.1	587.3	565477					32.13 2			47 2.27		401.3	
ELF-02 ap2	394451	769.5	266.74	163.54	25.19	254.77	53.87	245.7	23.68	617.4	671.9	565111											
ELF-02 ap20	395138	784.8	236.41	145.75	28.53	243.68	48.68	249.4	20.90	576.8	700.8	565227								21 1.12			
ELF-02 ap21	395594	534.0	219.48	125.85	28.20	226.75	43.78	155.6	14.85	481.6	523.0	565486				183.5 3							
ELF-02 ap22	395499	603.9	98.89	32.84	13.66	101.04	12.67	200.9	2.85	534.3	458.9	565683											
ELF-02 ap23	394631	851.5	322.57	217.91	37.04	284.89	68.34	275.3	34.07	526.5	726.0	564925		133.8		191.9 4				40 1.32		1149.2	
ELF-02 ap24	396796	154.9	65.27	36.88	15.28	66.61	12.90	47.0	4.47	221.8	153.1	566053											
ELF-02 ap25	395257	977.4	271.67	163.01	22.65	268.71	55.01	300.5	22.44	2.695	823.2	565104										341.6	
ELF-02 ap26	393109	439.3	217.04	144.52	37.41	178.25	47.09	146.1	21.75	644.8	370.3	565168											
ELF-02 ap27	395780	269.4	226.51	160.99	24.37	183.76	50.25	75.3	26.79	269.2	293.0	565517					32.92	18.44 23	23.23 11.	11.50 1.38	3 166.95	1344.4	
ELF-02 ap28	393676	788.3	279.88	169.51	32.41	276.07	57.79	248.5	22.99	726.3	715.8	564981											
ELF-02 ap29	394657	732.0	174.04	101.34	26.86	209.98	35.04	199.0	14.02	409.1	681.3	565145			186.1 2								
ELF-02 ap3	395548	917.9	205.74	125.22	22.20	246.33	41.29	286.5	19.68	499.1	786.3	565207											
ELF-02 ap30	394836	47.3	11.95	6.95	9.68	11.25	2.27	19.8	1.30	1231.2	32.8	566505		9.9		463.2							
ELF-02 ap31	397435	139.6	45.29	19.89	6.87	55.82	8.06	38.4	1.61	153.0	140.9	566195		_			7.93		2.27 0.		5 12.46		
ELF-02 ap32	395608	7.28.6	567.79	153.13	23.21	279.57	53.14	198.2	18.46	466.6	7.16.8	565259				-					•		
ELF-02 ap33	394673	55.6	19.19	10.08	8.08	17.99	3.49	20.3	1.48	660.2	46.4	565984										.4	
ELF-02 ap4	395141	892.3	202.88	126.61	27.82	212.78	41.57	310.9	17.57	494.0	664.6	565162		•				•		_	_		
ELF-02 ap5	395697	8.96	32.86	17.92	11.10	34.89	6.27	31.7	2.74	464.3	88.2	565978			_				2.50 11.	11.87 0.25	5 17.16	1594.8	
ELF-02 ap6	395194	687.4	191.57	112.04	24.53	210.98	38.40	217.4	13.28	506.4	592.6	565352		•			32.07 3	•		0			
ELF-02 ap7	396138	356.9	208.02	134.68	35.41	184.79	44.03	8.96	19.19	331.4	374.8	565633	1.22		_	.,		•	_	<b>6</b>	-	866.7	
ELF-02 ap8	395863	367.8	110.29	53.69	39.38	138.72	20.30	115.0	5.53	371.4	350.8	565731	4.32	62.4	119.8		99:03		6.73 2.	2.51 0.91		1360.3	
ELF-02 ap9	396792	121.0	35.51	21.62	10.05	38.49	7.10	36.7	2.88	237.8	102.3	566139	0.97	19.3	31.3			4.51	86	09 3.41		1178.9	
LB026 ap1	397315	494.9	84.71	44.18	4.50	102.37	16.82	146.3	3.79	126.2	379.2	565826	0.17	74.4	92.6	26.2	4.40 7	75.20 5	1.12	39 7.12	27.40	32.5	
*	*All elements are in ppm.	ents a	re in p	md(																			

Appendix C: Eastern Sunda arc apatite trace element chemistry (LA-ICP-MS)

Analysis ID	Ca	S	à	· iii	En	PS	운	e	3	. eX	PN	<u> </u>	Pb 4	P.	Sm	- A	£	m_		>	\$	E.
, I B026 an10	387919	565.9	68.88	33.59	11.31	105.47	12.99	197.1	2.55	193.6	401.7	563997	0.24	80.3	5.3	139.2	١.	14.53 3.	3.34 0.6	5 27.80	16.15	11103.3
LB026 ap11	396721	824.7	117.98	61.46	10.95	151.69	23.37	278.5	5.71	197.8	546.2	565499					20.91 68		22 2.65		38.06	32.0
LB026 ap12	397899	193.3	43.53	24.80	2.31	52.94	9.18	60.3	2.50	76.4	148.8	566198									15.72	61.2
LB026 ap13	396693	786.4	60.27	28.56	19.31	89.94	11.02	254.2	2.32	193.1	488.8	565630	•	•					3.28 2.3		17.47	362.2
LB026 ap14	396303	888.2	131.31	70.77	13.67	157.63	26.93	285.9	99.9	191.8	571.6	565388	0.13						25 0.17	7 30.81	42.91	452.5
LB026 ap15	397455	517.6	22.56	11.65	2.07	40.09	4.56	181.8	1.04	7.76	267.9	565957		63.9							6.77	164.3
LB026 ap16	397161	587.5	94.84	43.78	5.48	143.95	17.96	159.5	2.67	106.0	497.1	565681							4.35 1.1		20.52	36.3
LB026 ap17	396007	989.2	149.81	80.34	21.04	178.23	29.80	399.0	6.45	390.2	299.8	565322									50.85	113.5
LB026 ap18	396890	730.5	108.88	55.97	11.94	128.17	20.92	303.8	4.67	159.9	459.4	565575					18.68				33.86	21.2
LB026 ap19	392971	1042.6	105.18	53.11	10.15	147.95	20.23	3/1./	3.80	347.1	652.9	565337		142.8							30.73	352.5
LB026 ap2	393199	2610.0	116.49	61.14	40.33	152.44	22.02	1128.8	5.63	916.8	1079.4	564245	2.82			278.6 27				20.38	44.38	430.3
LB026 ap20	303000	012.3	11.09	24.27	0.00	130.90	42.50	196.2	4. c	0.041	5.544	202023	0.28		12.2			76.47			12.57	90.9
LB026 ap21	397397	457.0	37.86	18.27	9.17	58.43	6.63	169.9	1.54	192.0	264.6	566004	0.24	58.1					1.97 0.87		10,93	50.8
LB026 ap23	395919	1362.6	79.48	42.00	15.82	11.44	15.26	561.5	3.21	305.4	661.6	565134				·					25.87	45.9
LB026 ap24	397461	487.5	39.34	19.86	5.94	65.42	7.58	173.0	1.58	120.9	304.3	565941							2.09 1.1		10.88	37.6
LB026 ap25	397110	658.6	57.36	27.96	96.6	81.71	11.24	253.2	2.20	198.5	362.5	565803		83.8							17.69	42.7
LB026 ap26	393580	1091.0	181.36	89.37	16.82	217.86	34.73	460.2	6.47	1189.2	0.799	564781			173.5 38						50.06	501.3
LB026 ap27	396827	802.0	62.96	35.17	15.26	77.25	12.31	390.2	3.47	225.2	372.1	565649									25.86	41.9
LB026 ap28	395374	1609.6	130.02	55.73	17.64	222.32	22.81	602.9	3.99	212.2	8.686	564680			216.8 18						29.26	322.3
LB026 ap29	394482	2073.6	172.11	78.08	20.89	257.94	32.65	841.9	5.52	490.9	1187.7	564345									44.36	76.1
LB026 ap3	395129	1169.8	136.13	67.12	25.14	192.89	26.21	458.1	5.89	443.4	803.5	565048		162.5							41.48	6.097
LB026 ap30	393537	1795.5	179.34	98.57	27.19	205.02	35.14	757.4	10.39	1072.5	971.1	564768									76.34	9.595
LB026 ap31	395609	1525.3	101.11	52.49	25.30	128.64	18.73	604.8	5.25	317.3	756.2	564983									38.70	249.3
LB026 ap32	397240	676.5	49.66	23.50	4.93	80.82	9.53	217.6	1.57	116.4	414.2	565773						17.62 2.			11.73	34.2
LB026 ap33	395177	1771.1	77.24	41.01	23.59	105.73	14.74	784.4	3.48	482.5	738.5	564895	1.26		122.9 2						28.16	149.4
LB026 ap34	394469	1594.3	118.65	58.02	22.07	173.56	22.09	704.8	4.15	922.7	848.4	565055				237.0 20					33.63	244.7
LB026 ap35	395045	1120.6	70.10	44.43	29.63	86.44	14.71	538.9	5.46	827.6	521.1	565475									39.31	459.5
LB026 ap4	396513	850.1	53.55	29.55	12.77	98.79	10.39	345.3	2.96	202.8	411.5	565575	0.23	100.9				56.97 3.	3.66 4.6		21.76	497.0
LB026 ap5	396196	1290.0	64.82	31.88	21.13	80.08	11.81	516.6	2.58	203.9	611.0	565224									21.08	175.1
LB026 ap6	394752	807.4	104.63	57.10	15.43	136.88	20.38	242.6	5.99	263.2	557.3	565198									41.91	2354.3
LB026 ap7	397119	700.0	64.24	34.16	7.46	84.03	12.17	242.3	3.08	121.8	422.6	565703	0.18								22.31	68.9
LB026 ap8	396042	1451.2	120.92	62.88	8.73	156.51	22.98	553.7	6.16	127.3	802.3	564912									45.12	39.5
LB026 ap9	397480	509.8	36.56	18.10	6.10	53.28	6.98	164.8	1.58	103.4	299.8	565936	0.22	68.8	53.6	136.2 (			2.22 1.5		11.13	57.5
NAF-01 ap1	395310	1426.3	135.83	72.56	04.7	189.29	27.09	499.6	00.4	0.470	866.4	262086									41.38	31.8
NAF-01 ap10	397406	567.1	25.94	18.13	3.48	40.69	5.40	244.8	0.23	1117	262.0	565908					4 63	16.02	2.69 9.0	2 2.38	20.00	71.5
NAF-01 ap 11	395455	1702.5	109.35	52.97	11.14	167.86	20.61	689.3	4.02	251.7	946.2	564709									30.85	66.2
NAF-01 ap13	395638	1525.4	139.05	77.80	14.11	186.48	27.25	589.5	7.70	237.0	955.5	564790									57.49	58.0
NAF-01 ap14	394322	1899.8	298.23	171.70	16.34	326.89	61.30	731.3	15.67	487.3	1163.8	564234			•••			.,			115.95	135.7
NAF-01 ap15	395274	1549.1	154.84	79.42	10.85	212.93	29.20	557.3	7.70	431.8	961.6	564843									52.06	106.4
NAF-01 ap16	394913	1836.8	209.70	114.41	12.85	260.54	40.07	653.5	11.80	323.8	1205.4	564392							14.15 19.0		85.32	98.1
NAF-01 ap17	396304	970.3	146.06	78.58	9.15	180.04	28.50	322.3	8.26	250.2	684.5	565308					24.45 20		.92 3.16		58.30	95.2
NAF-01 ap18	394421	2014.5	234.01	116.11	12.53	298.15	44.43	762.9	8.63	502.1	1219.9	564317									67.18	9.66
NAF-01 ap19	394646	2076.0	240.02	135.91	12.74	273.73	47.04	784.4	14.08	329.4	1188.9	564205	•					•	17.73 15.99		105.08	53.5
NAF-01 ap2	392293	2613.9	238.35	138.97	17.74	293.47	47.43	1042.0	15.10	1044.9	1428.7	563820	.,		-	-	•	•	٠.		105.64	626.7
NAF-01 ap20	395816	1203.2	182.02	98.11	8.28	229.97	35.16	359.5	8.67	295.5	9.768	565021	•		10		30.17 20	_		11 5.91	64.52	93.0
NAF-01 ap21	393581	3332.3	157.59	72.14	17.70	231.21	28.69	1259.2	5.37	231.3	1590.9	563277	4.71			236.7 28	123 123		8.02 42.02	10.01	42.62	40.1
NAF-01 ap22	383075	2631.1	198.02	17.011	18.05	260.85	39.85	0.7601	70.92	7.45.0	1391.0	563861	3.65		م ر			.98	74 38.1	9.53	67.67	2/8.3
NAF-01 ap23	395162	1934.6	132.36	66.89	7.75	194.25	25.07	8.767	5.25	236.0	1029.5	564478	3.72	236.7	199.5	80.8	23.81 8,	87.41	.44 22.07	9.51	38.96	147.0
₩.	*All elements are in ppm.	ents a	re in p	pm.																		

Appendix C: Eastern Sunda arc apatite trace element chemistry (LA-ICP-MS)

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Analysis ID	Ca	క్రి	Ω	ŭ	EU	<b>p</b> 5	유	Га	2	Na	B	ı.	e e	ŗ	S.H	ัง	qı	-	E	-	>	λp	ь
NAF-01 ap24	395623	1698.2	127.95	65.71	11.07	174.59	24.67	663.8	5.73	214.1	902.6	564741	1.34	211.4	182.1	202.8	22.12	24.38	7.94	77.60	22.03	43.89	16.1
NAF-01 apz5	395022	1956.7	118.18	57.07	10.37	180.62	22.45	778.6	. 4	336.6	1027.2	564513	2.49	243.1	191.7	216.6	21.46	111.77	66.9	19.35	4 4 4	36.89	115.5
NAF-01 ap27	392549	2645.5	256.61	147.16	18.29	297.63	51.90	1048.2	14.40	956.4	1428.0	563789	4.45	332.8	307.1	353.3	43.69	115.20	19.12	39.96	10.49	109.64	458.1
NAF-01 ap28	396730	782.3	89.59	49.92	13.07	107.43	17.56	306.4	5.63	248.9	454.8	565627	1.39	101.2	103.6	192.6	14.93	6.55	6.48	1.45	7.65	40.46	89.9
NAF-01 ap29	394504	1717.5	150.17	82.75	13.90	188.10	29.44	684.4	9.23	351.8	944.9	564529	2.18	214.3	191.6	233.2	24.78	78.23	10.69	17.37	14.50	66.94	939.5
NAF-01 ap3	391462	2722.2	443.57	210.27	14.39	504.99	83.14	951.3	13.11	1327.9	1750.1	563567	1.40	372.0	457.9	364.3	73.22	15.43	22.52	9.54	2.47	111.23	518.5
NAF-01 ap30	393041	1889.9	151.14	83.21	11.87	197.91	29.54	740.9	8.35	1356.6	1021.5	564840	2.69	236.7	207.6	401.4	26.09	43.09	10.37	17.13	24.43	62.01	594.2
NAF-01 ap31	395833	1066.2	126.03	70.01	13.57	154.10	24.51	390.1	8.07	463.3	6.77.9	565326	1.91	146.4	151.2	240.1	20.82	38.57	9.24	4.31	4.70	57.07	171.9
NAF-01 ap32	392453	2679.6	321.84	146.57	19.69	430.70	57.97	895.1	9.71	832.6	1818.2	563505	1.97	389.8	431.6	366.3	60.13	60.39	16.19	27.20	17.27	79.55	377.7
NAF-01 ap33	396018	933.5	281.40	149.44	9.85	301.69	54.67	284.5	11.62	224.8	755.5	565078	1.82	139.8	221.1	183.3	45.25	14.86	17.67	4.03	2.22	93.69	172.3
NAF-01 ap34	393220	2461.2	191.00	105.21	17.62	248.84	36.61	1009.5	10.78	835.3	1254.9	564059	3.40	296.0	255.9	367.8	31.67	113.37	13.51	33.71	12.49	79.44	339.6
NAF-01 ap35	390064	3377.4	544.69	213.86	17.82	708.35	93.66	1141.6	10.74	1369.6	2434.2	562621	2.08	488.4	663.1	372.4	100.74	44.15	21.82	28.42	5.07	97.09	577.8
NAF-01 ap36	387248	31946	903.90	310.55	15.76	748.41	125.15	1059.5	17.13	1102.2	2363.3	561863	2.00	314.0 467.8	510.3	319.7	114.60	38.19	32.24	37.06	98.0	152 91	4451.3
NAF-01 ap4	394882	21713	66.52	35.79	14.80	115.03	12.82	864.8	28.5	300 0	973.2	564502	88 0	250.7	145.0	235.4	13.08	151.42	4.51	14.60	6.84	27.32	116.4
NAF-01 aps	391794	2547.9	387.29	191.07	15.15	456.54	73.13	938.1	12.76	1298.6	1684.1	563736	1.42	350.1	425.9	405.1	90.29	32.53	21.96	17.97	10.37	109.27	423.1
NAF-01 ap7	394576	1833.2	227.27	134.29	19.17	269.35	46.21	685.6	14.28	484.5	1146.6	564399	3.09	242.8	262.2	214.5	38.17	115.11	18.10	22.35	10.93	103.75	130.7
NAF-01 ap8	394920	1500.0	244.28	135.14	13.43	274.35	48.80	550.2	13.02	543.9	941.4	564763	2.21	201.2	234.1	247.2	40.10	33.76	16.45	11.44	5.22	96.20	162.9
NAF-01 ap9	391611	2562.1	468.49	209.71	15.74	541.02	84.74	853.5	10.59	1238.7	1811.0	563566	1.86	369.1	485.2	335.7	78.95	28.54	21.09	12.93	2.91	95.03	594.6
NAF-02 ap1	392710	9.659	250.61	150.20	36.94	208.09	51.04	229.3	19.63	694.9	473.4	564937	4.04	94.5	147.3	410.4	36.60	57.40	20.85	17.23	0.29	136.23	3650.4
NAF-02 ap10	391583	1340.4	272.61	158.04	43.74	257.26	54.06	511.1	19.91	623.7	828.8	564195	4.90	180.1	215.4	348.3	41.71	38.85	21.98	20.21	0.18	144.85	4091.4
NAF-02 ap11	391420	354.8	135.28	66.39	29.44	153.80	24.33	111.6	7.82	1437.3	320.6	565579	13.16	58.4	118.2	336.3	22.74	4.39	8.70	5.26	0.31	58.15	4721.6
NAF-02 ap12	392788	595.2	247.07	149.88	38.63	209.46	53.02	199.6	19.38	638.4	446.1	564956	3.83	91.8	141.4	424.2	39.23	35.10	21.92	16.13	0.97	139.65	3741.6
NAF-02 ap13	393903	426.4	219.56	127.08	30.90	188.53	44.23	136.7	15.42	675.0	347.1	565391	3.21	0.99	123.3	330.0	33.01	6.57	17.28	14.85	0.38	110.77	2786.5
NAF-02 ap14	392281	1017.0	331.82	205.68	41.41	271.59	68.32	384.9	26.49	97.29	673.3	564486	10.17	140.5	199.8	351.2	48.02	48.41	28.48	21.36	0.27	185.65	3511.4
NAF-02 ap15	392842	491.2	227.93	134.34	33.47	195.56	45.79	165.7	16.64	625.3	383.1	565071	5.27	73.5	132.7	344.4	34.13	36.12	18.47	14.78	1.35	119.10	3982.9
NAF-02 ap16	393169	514.8	226.28	133.48	34.80	186.33	45.25	174.3	16.62	6.999	383.2	565155	3.78	76.5	128.5	405.1	33.11	18.97	18.44	17.66	0.68	121.25	3465.4
NAF-02 ap17	396721	213.8	119.79	59.48	21.24	127.42	22.06	55.4	6.03	241.0	232.2	565924	0.94	39.3	93.0	236.3	20.52	5 5	7.70	2.62 17.4E	<0.145	44.81	3400 5
NAF-02 ap18	393547	542.2	24138	141 95	5 5	209 97	40.24	183.7	9 9	701.3	418.8	565228	0.00	7.27	140.2	319.9	36.26	13.48	18.74	16.86	0.43	120.37	2907.8
NAF-02 ap 19	391018	653.0	253.57	137.75	42.15	233.10	49.39	231.9	16.16	881.5	493.3	564724	5.43	94.4	163.3	515.8	39.98	13.76	19.27	15.39	0.61	117.91	5276.1
NAF-02 ap20	388578	354.6	118.06	55.21	28.37	135.17	21.03	111.1	5.92	3586.6	307.4	566587	7.05	57.3	107.9	388.9	20.17	13.03	7.11	11.21	5.70	43.70	4443.4
NAF-02 ap21	395835	306.0	171.66	92.18	19.59	174.21	32.94	76.1	10.46	383.8	333.7	565696	2.96	55.5	124.7	271.0	27.24	12.71	12.04	5.99	0.31	74.89	1278.3
NAF-02 ap22	394009	570.8	251.49	146.81	34.43	204.95	51.37	192.1	17.15	648.8	425.8	565246	2.86	84.8	140.1	378.8	36.88	24.00	20.32	18.70	0.61	125.81	2365.9
NAF-02 ap23	392815	595.5	274.20	166.45	34.56	220.31	55.92	208.7	21.70	678.0	437.8	564982	4.92	86.2	147.5	341.9	39.68	24.83	22.80	22.22	0.78	151.02	3663.9
NAF-02 ap24	393202	528.4	248.59	142.16	35.51	204.30	49.50	179.2	17.30	794.7	406.6	565217	5.70	79.5	134.8	392.4	37.10	23.69	19.06	18.16	0.57	124.75	3133.9
NAF-02 ap25	392986	809.6	257.60	142.28	37.54	230.89	50.53	290.8	16.72	630.1	551.5	564870	3.61	113.9	166.5	334.1	39.66	23.03	18.96	19.25	0.20	121.59	3281.7
NAF-02 ap3	392617	591.4	243.34	182.01	36.30	203.20	61.53	206.7	23.95	643.5	900.0	564888	4 21	- 200	1541.9	336.8	30.30	18.45	25.66	17.79	0.32	166.63	3901.3
NAF-02 ap5	393752	393.2	163.45	86.31	28.65	153.66	31.04	127.0	9.81	454.7	321.5	565290	3.51	61.6	113.9	349.2	25.82	15.85	11.38	9.04	0.63	74.84	3519.8
NAF-02 ap6	394007	445.8	224.95	129.26	32.77	182.57	43.96	147.2	15.75	641.5	352.4	565371	3.07	9.89	124.3	339.1	32.22	8.36	17.21	15.55	0.16	112.61	2681.6
NAF-02 ap7	393215	502.4	206.89	119.78	33.58	172.54	40.83	168.3	15.06	594.3	370.3	565152	3.70	73.6	124.1	408.1	30.91	8.74	16.57	13.05	96.0	109.26	3616.5
NAF-02 ap8	393353	492.1	233.35	136.78	34.72	189.66	46.61	169.5	16.93	786.5	376.3	565287	9.71	72.9	128.4	388.1	34.46	8.25	18.64	15.39	0.40	123.94	3067.7
NAF-02 ap9	368784	18855.0	1404.40	986.99	251.89	1445.53	315.44	8191.3	144.28	497.5	8765.3	546191	6.92	2260.9	1722.6	340.0	216.78	1237.13	140.37	261.72	1.14	985.87	1985.8
NAF-03 ap1	395603	517.2	158.04	100.98	28.53	151.54	33.03	176.7	13.87	652.3	409.8	565703	3.74	78.9	126.0	310.1	23.86	18.85	14.07	16.51	2.90	93.75	759.9
NAF-03 ap10	394531	1025.1	221.13	128.98	25.17	211.11	44.51	376.4	12.48	474.7	684.5	564983	4.	142.0	184.3	258.1	33.89	14.05	16.73	10.10	10.94	97.31	1512.2
NAF-03 ap11	396163	586.1	156.38	100.74	26.87	150.22	32.74	195.8	12.62	452.1	453.0	565637	2.32	89.3	128.0	213.6	23.65	49.93	13.98	16.18	1.96	86.41	405.7
NAF-03 ap12	396296	8. 1.0	110.19	25.52	10.90	129.72	20.20	0.021	7c.4	7.18.7	300.1	21.7000		0.70	5.00	y (	4 6	24.42	0.0	0.47	3.52	45.04	4004
NAF-03 ap13	396821	547.3	44.34	72.55	19.73	153.75	27.47	715.4	4.70	9.001	9.87	565583	4.25	6.0 6.0	1.36.7	153.2	23.48	10.28	8.09	1.46	4.12	39.64	180.1
ĸ.	*All elements are in ppm.	nents a	re in p	pm.																			

Appendix C: Eastern Sunda arc apatite trace element chemistry (LA-ICP-MS)

Analysis ID	Ca	S	Δ	i i	En	PS	오	La	3	e N	PN	<u> </u>	Pb	Pr	Sm	Tb		Tm	0	>	Ϋ́	Fe	
NAF-03 an14	394229	597.4	144.20	71.12	18.68	161.51	27.32	195.2	4.85	237.3	479.2	565104	1.07	91.0	140.4 2:	238.8 2	24.06	79.77	7.83		15.02 38	38.90 307	3078.3
NAF-03 ap 15	396272	451.9	155.66	106.42	30.06	134.78	33.34	141.9	16.87	428.7	359.3	565741	1.39					_					533.5
NAF-03 ap16	397051	396.8	132.97	52.81	20.90	173.81	22.53	117.1	2.61	195.6	416.8	565807	09.0										181.6
NAF-03 ap17	395930	624.9	140.93	96.68	26.50	132.48	30.13	212.5	15.44	459.6	457.6	565597	1.75					_					657.7
NAF-03 ap18	396414	769.1	158.81	74.74	24.36	182.70	28.61	251.7	4.59	242.8	575.8	565452	1.39				26.69						253.7
NAF-03 ap19	396084	7.23.7	144.48	63.79	20.33	159.25	27.62	248.3	5.03 6.91	254.8	284.5	565445	2.57	47.4	139.0 23	250.1 2			8.23				16.6 13.8
NAF-03 ap2	392066	95.5	84.84	44.29	16.30	98.83	16.67	24.4	1.31	317.3	148.9	565179	2.87				_	2.12		0.80 43.46	.46 30.43		6481.2
NAF-03 ap21	396607	648.7	133.51	62.37	22.05	151.08	24.55	212.4	3.82	232.2	493.4	565586	1.29	6.96			22.92		6.62				39.3
NAF-03 ap22	396032	681.0	156.16	99.74	26.69	156.41	32.73	219.7	14.35	433.2	534.5	565515	1.99			244.3 2							39.5
NAF-03 ap23	395881	690.5	149.05	61.11	23.35	184.25	25.52	201.8	3.03	190.7	571.9	565250	2.53						-				21.9
NAF-03 ap24	393347	930.0	160.34	92.99	25.87	193.43	27.96	329.2	3.96	249.9	650.8	564701											10.3
NAF-03 ap25	395704	886.5	145.35	72.70	20.37	154.97	27.27	335.3	5.29	189.6	556.3	565228					_		8.45				71.4
NAF-03 ap26	396428	0.769	95.38	51.22	19.18	110.19	18.63	283.2	3.88	335.9	416.6	565664		91.1				15.13					70.1
NAF-03 ap27	393910	1.17.11	244.00	1/8.3/	36.53	212.46	25.85	459.8	24.33	880.1	1.666	504934											xo (
NAF-03 ap28	396663	700.6	146.20	65.49	19.96	171.10	26.52	185.3	ε. φ. σ	233.1	494.0	565612	1.25		148.7 2.	248.8 2	25.26						15.6
NAF-03 ap29	396165	1003 1	23.1 90	125.30	25.32	220.32	45.97	348.5	2.30 6.40	248.2	930.1	565168											37.6
NAF-03 ap30	395905	1065.0	179.49	76.26	26.72	215.15	31.76	391.0	4.95	267.7	706.3	565132			200.2		31.22						57.7
NAF-03 ap6	396516	580.6	140.38	69.79	28.98	156.19	25.51	212.0	6.44	295.9	454.8	565650	1.50	86.3		159.5 2							48.6
NAF-03 ap7	395923	606.5	147.96	64.64	31.71	190.72	26.00	174.2	4.00	274.6	543.8	565440											0.06
NAF-03 ap8	395846	1044.6	184.49	93.44	31.71	204.64	35.11	362.5	09.9	247.7	715.4	565102				330.9							38.1
NAF-03 ap9	395839	1.788	243.37	93.26	45.49	286.24	40.27	317.1	4.85	291.8	691.9	565152			239.4 2								45.5
SLG-1 ap1	396411	722.4	156.88	68.49	36.77	189.43	26.68	187.8	5.40	330.9	623.5	565544											22.7
SLG-1 ap10	391427	565.6	145.83	64.37	31.20	173.55	26.06	163.5	4.87	2432.4	486.0	566203			151.5					•			14.7
SLG-1 ap11	396651	629.9	146.17	48.58	45.19	209.93	22.14	163.3	3.29	285.8	583.0	565613		. 8.701		88.2 2							35.9
SLG-1 ap12	396451	9.599	95.41	31.49	36.04	152.00	14.35	193.3	1.72	466.6	495.2	565786	0.26										15.4
SLG-1 ap13	395401	1219.4	225.70	132.42	56.93	208.54	47.76	438.6	14.35	546.1	698.2	565130								•			40.8
SLG-1 ap14	396772	560.9	105.00	34.87	26.53	153.32	15.70	142.4	2.02	241.7	482.4	565741	0.69	92.0									59.3
SLG-1 ap15	396535	525.6	132.08	48.15	35.28	185.60	20.46	142.1	2.87	360.4	480.3	565750	0.29										50.3
SLG-1 ap16	396667	542.9	138.01	30.76	33.37	1/8.60	22.13	143.7	3.05	5.11.5	489.4	565/31	9										D. 0
SLG-1 ap17	395704	0.709	307.20	54.55	38.28	32.865	24.76	162.1	9.80 0.80	306.8	75.8.0 7.8.0	505393											75.55
SLG-1 ap10	395990	6.49.4	150.47	70.07	35.10	104 21	20.00	174.1	, r	370.2	2000	565542											
SLG-1 april	396819	496.9	115.66	38.39	32.39	158.18	17.35	124.2	2.39	321.0	451.2	565833	_	. 84.3	145.7	85.3	21.77	0.38		0.30			26.7
SLG-1 ap20	396256	722.3	185.06	79.50	31.62	220.82	31.65	186.8	5.77	370.6	6263	565499											50.5
SLG-1 ap21	396541	603.2	152.74	59.27	36.86	212.18	25.12	156.6	3.61	322.2	574.5	565627											24.2
SLG-1 ap22	396661	584.1	141.61	55.26	36.23	183.10	22.90	147.3	4.22	293.0	539.5	565673			_	89.6 2							27.1
SLG-1 ap23	394450	6.669	161.99	65.75	37.77	190.68	26.88	194.4	4.54	361.8	564.3	565202	1.35				28.75						71.6
SLG-1 ap24	395447	781.6	135.12	63.79	42.36	180.01	24.45	219.3	5.16	571.4	647.3	565496	0.60		_					1.02			36.7
SLG-1 ap25	396661	522.8	106.91	37.38	29.11	154.47	16.99	121.2	2.32	385.0	472.5	565836			_								31.6
SLG-1 ap26	390402	6.700	10.00	31.35	32.13	144.80	14.20	1,0.5	08.	465.0	5.094	202803	0.33	102.1	- 6								- 6
SLG-1 ap27	306018	029.1	103.34	04.76	32.07	24.7 04	21.12	176.4	00.0	8.018	556.0	202003				80.8				0.09	30.74 42.02		o
SLG-1 ap3	396632	0.140	143.86	55.77	34.03	177.86	22.30	168.0	3 6	307.4	t 00 1	565671	0.40	5 5								_	2 2 2
SLG-1 apt	396128	863.8	179.91	83.68	40.28	203.09	31.85	235.5	79.7	397.0	701.4	565412	0.32	138.2	-		31.39	,	0.35		49 61.54		178.5
SLG-1 aps	396436	656.5	156.57	71.16	36.16	191.85	27.52	166.8	6.12	316.4	626.5	565561	0.26	114.6						_			74.1
SLG-1 ap8	396617	586.0	137.57	53.45	31.09	179.24	22.26	160.4	3.35	313.9	519.7	565691	0.58	6.96	161.4	99.2 2	6.84		5.90	0.54 <0.3	<0.327 28	_	263.6
SLG-1 ap9	387051	2.929	119.99	39.18	39.71	176.15	17.77	161.9	2.27	6651.7	496.4	568387	0.40	. 0.96	104.7	04.2 2	4.52		3.96	0.29 <0.4		19.79 86	33.4
SLG-2 ap1	391672	2516.8	205.86	102.74	23.83	263.37	38.27	941.7	9.58	1443.4	1367.5	564189	1.24	315.9	.2 1.772	77.1 3	4.85	1.99	2.54	4.43 19	•	39.78 115	53.6
	*All elements are in ppm.	ents a	re in p	pm.																			

Appendix C: Eastern Sunda arc apatite trace element chemistry (LA-ICP-MS)

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Analysis ID	Ca	Ce	Dy	Er	Eu	PS	Но	La	Lu	Na Nd	d b	Pb		Sm	Sr	Tb	É	Tm	n	^	Yb	Fe
SLG-2 ap10	395791	1574.0	103.51	48.88	10.33	153.59	19.19	555.4	3.90				•••				-			2.07	28.89	38.4
SLG-2 ap11	396234	1010.7	85.62	40.12	5.18	126.97	16.00	314.0	2.60			_	•		_			3 4.16		5.37	20.61	374.5
SLG-2 ap12	391381	2561.5	144.53	70.24	24.25	191.92	26.02	1059.7	6.79	•			.,	.,	••					23.05	49.52	1816.6
SLG-2 ap13	395022	2110.9	131.70	65.51	13.71	182.48	24.54	852.2	5.54	•			•		,	163.0 23.28				12.20	41.11	111.8
SLG-2 ap14	394705	1897.5	136.21	62.33	11.20	205.36	24.55	684.7	4.86		1083.4	~	2.05 24		217.0 131.3			4 6.78	2.56	8.51	35.25	78.9
SLG-2 ap15	395316	1447.3	183.41	86.78	10.15	236.08	34.85	475.4	6.42				•				17 35.53			5.13	50.98	141.9
SLG-2 ap17	395386	1565.4	147.82	70.15	8.70	205.56	27.11	552.0	5.35				•							5.85	39.24	88.5
SLG-2 ap18	394359	2334.6	162.60	75.17	15.34	231.21	29.53	874.0	6.18	•										11.03	45.45	65.3
SLG-2 ap19	394889	2088.5	152.35	72.04	12.28	213.30	28.05	768.2	5.83		_					.6 27.06			4.33	9.47	44.64	9.96
SLG-2 ap2	394924	2034.8	126.13	61.29	15.06	184.38	23.63	759.1	4.85			_								9.56	37.84	94.9
SLG-2 ap20	394468	2144.5	208.25	99.63	15.93	268.76	38.75	810.8	7.73						266.0 194.2			_	2.33	14.20	60.55	52.4
SLG-2 ap21	395391	1666.9	128.60	59.84	12.95	189.99	23.55	581.8												5.17	36.38	124.4
SLG-2 ap22	392995	2239.4	116.85	60.64	22.12	167.54	22.25	931.7				_		261.7 18		.1 21.62				18.30	39.33	1009.3
SLG-2 ap26	394040	2180.0	198.58	95.69	19.32	262.30	36.72	788.9	7.76									8 11.03	2.41	16.52	61.38	156.5
SLG-2 ap27	394428	1947.0	144.63	76.79	15.43	191.10	27.19	765.5							201.6 118.4					16.59	47.72	1039.6
SLG-2 ap4	391918	2692.3	152.32	74.36	22.22	207.21	28.47	1094.9					3.09 32	320.7 2:					4.35	20.31	51.83	928.6
SLG-2 ap6	395445	1322.4	130.85	62.54	7.11	187.77	24.19	417.0												3.82	34.06	103.2
SLG-2 ap7	393505	1954.9	98.60	48.37	19.93	128.15	18.51	873.3	•		847.2									28.71	35.82	905.3
SLG-2 ap8	394669	1651.7	105.25	54.54	11.84	164.83	19.24	583.6												8.58	28.62	47.9
SLG-2 ap9	394708	1846.7	173.76	83.76	12.26	234.56	32.01	9.879							233.5 134.3					9.46	48.19	124.9
BHF-01 ap1	391980	1034.6	189.36	111.35	34.57	205.44	37.82	345.9	13.59						-		22 36.97			2.89	93.02	3741.5
BHF-01 ap2	395469	198.1	11.89	5.44	23.14	18.44	1.96	84.8							22.7 571.0					20.76	4.69	438.8
BHF-01 ap3	392966	930.7	200.94	130.27	37.43	203.61	42.03	308.0				564807 1		139.4 18		.4 30.97				1.85	128.96	3012.0
BHF-01 ap4	396718	403.8	108.97	52.53	25.29	141.97	19.71	90.06												0.20	35.55	414.7
BHF-01 ap5	393072	879.5	208.20	131.25	36.10	212.63	42.90	275.7	18.24						188.0 424.1					1.97	121.89	2898.9
BHF-01 ap6	391562	969.2	270.14	194.42	39.55	229.77	59.87	322.1								2 37.72				4.72	206.79	4186.9
BHF-01 ap7	392895	857.6	164.44	107.10	37.52	155.98	33.98	305.2												0.42	103.39	3230.6
BHF-01 ap8	392745	1067.6	199.28	125.35	37.87	205.33	40.39	377.7												1.20	117.49	2939.9
BHF-01 ap9	392344	1042.3	169.36	101.81	36.36	180.05	33.22	360.0												2.24	91.81	3546.4
BHF-01 ap10	391244	1242.0	212.74	131.64	41.26	219.91	43.10	421.8	19.26	1299.5	867.0	564689 0			214.3 447.1	.1 33.44	44 70.84	4 18.73		1.07	127.69	3455.2
BHF-01 ap11	392138	1056.8	188.74	117.81	32.60	193.84	38.30	369.1												3.00	114.74	3569.5
BHF-01 ap12	392016	1041.1	183.88	107.71	24.08	201.44	36.89	344.4								.9 29.41	11 23.99	9 14.88		2.88	91.31	3917.3
BHF-01 ap13	393728	691.6	159.12	99.92	34.28	160.37	32.52	227.6						106.5 14						<u>4</u>	98.05	2747.6
BHF-01 ap14	390248	998.4	197.51	125.33	38.87	196.64	40.91	351.0			711.6									0.77	127.25	3822.2
BHF-01 ap15	393944	834.2	172.95	104.81	27.79	199.23	35.09	249.1	12.24							.8 29.18				3.28	85.23	2318.7
BHF-01 ap16	391475	1978.0	224.30	124.16	59.57	285.07	44.11	0.769	14.97				7.48 28							2.68	105.45	3418.0
BHF-01 ap17	393849	801.9	155.92	91.53	25.99	171.16	30.63	260.8	11.13	604.2		565118 0					79 20.45			2.86	76.58	2447.1
BHF-01 ap18	393108	1006.5	200.95	119.74	33.16	205.71	39.17	315.4	16.50		762.4			152.5 19	195.8 364.3	.3 31.37		4 16.76	8.82	3.40	112.31	2883.5
BHF-01 ap19	392118	1262.6	246.33	97.76	40.31	241.05	20.80	459.0							•					3.06	162.01	2929.6
BHF-01 ap20	394708	351.5	15.88	7.67	70.10	21.40	2.83	183.1		2.2011	147.9	T 211000	5 64	39.3	25.1 819.6 474.7 974.9					23.63	5.83	1364.8
BHF-01 ap21	391121	1020.4	203.76	120.88	37.56	208.56	40.41	344.0								2 31.07	77 42.74		,	3.46	118.14	4939.9
DIT 04 3:22	391854	867.0	182 29	112.69	28.53	194.53	37.38	275.2	15 96		6844	564720 0	0.69					15.86	10.23	200	110.30	4370.6
BHF-01 ap23	392776	926.6	212.91	130.78	27.50	215.75	42.51	288.5	17.63				•							2.55	119.97	2974.0
BHF-01 ap25	392304	971.5	185.39	113.79	27.97	190.72	37.75	317.8	15.20				•					·	9.25	1.40	103.63	3749.9
BHF-04 ap1	391626	3865.7	282.07	158.08	40.33	344.92	53.15	1411.0	23.87	N	-,		•	•		-	_		7.88	5.22	153.10	405.9
BHF-04 ap2	393053	2388.2	238.60	135.40	24.91	289.03	46.53	833.2	16.48	743.3 14	-,								9.61	5.84	114.96	672.3
BHF-04 ap3	394423	1674.5	220.58	124.76	16.91	251.78	42.80	569.8	14.06	`	1111.2		•	.,			17 94.99			5.59	102.53	519.0
BHF-04 ap4	394695	1715.4	204.38	107.25	20.94	252.23	38.17	539.4	11.96	_	-,	_	0.34 23	.,	.,			•	4.25	4.27	84.23	348.2
BHF-04 ap5	394647	1023.6	269.22	167.82	25.83	247.02	52.64	294.5	28.87	658.2	842.3	564977 1	•	161.1 23	223.1 369.	.3 39.40	10 58.80	0 25.41	5.11	1.51	183.10	696.4
₩	*All elements are in ppm.	ents a	re in p	pm.																		

Appendix C: Eastern Sunda arc apatite trace element chemistry (LA-ICP-MS)

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Analysis ID	Ca	Š	ń	ū	E	5		ra	2					_	"		4	=	>	>		-e
BHF-04 ap6	394239	1083.3	250.14	163.08	26.27	249.94	51.47	327.1	26.70	862.2	845.8	564999			225.3 4	418.6 38	38.13 100			1.25		722.8
BHF-04 ap7	394892	7.191.7	182.65	100.32	21.50	205.40	36.06	3/1.4	16.87	5/3./	825.4	505042	0.50	5.17.				41.50 TS	15.85 3.46		76.74	601.8
BHF-04 ap8	202013	0.000.0	215.66	120.90	0.40	27.4.73	33.22	234.2	10.07	0.020	10/18/10	903504	0.30					•				0.1.60
BHF-04 apg	392196	2526.6	297.76	172.52	27.93	334.50	10.14	864.8	21.43	985.7	1582.3	563720										804.0
BHF-04 ap 10	394211	1559.4	256.47	140.31	17.89	294.50	48.99	481.0	15.00	599.6	1133.5	564544								5 604	•	648.2
BHF-04 ap 12	394825	1052.1	224.62	141.00	19.76	223.13	46.95	328.0	20.03	763.2	798.7	565174	0.34					.,	20.43 2.62		•	506.7
BHF-04 ap13	395132	946.7	210.38	119.14	16.02	225.08	41.49	264.7	13.32	0.099	783.2	565252	0.52									487.9
BHF-04 ap14	393532	1940.1	236.90	144.12	31.63	258.09	47.44	644.5	22.83	716.1	1248.4	564261				295.9 38	_				_	742.6
BHF-04 ap15	394289	1058.3	269.79	169.29	36.23	277.47	53.44	282.8	25.03	581.1	926.8	564479					0,		-			673.1
BHF-04 ap16	389971	2675.5	384.01	233.52	18.21	418.02	76.64	9.798	30.56	1776.2	1779.4	563605									(1	1556.5
BHF-04 ap17	393974	1659.9	164.21	90.81	22.31	214.04	30.85	562.9	11.26	821.2	1065.8	564729						53.95 12	12.23 3.1	4 4.13		681.5
BHF-04 ap18	394807	953.0	203.18	116.23	19.95	221.17	39.35	288.2	13.89	698.5	765.5	565208							.57 2.61			795.6
BHF-04 ap19	395326	1278.6	226.10	124.74	15.13	250.11	43.77	355.4	13.96	388.2	986.9	564877	0.22								_	315.7
BHF-04 ap20	395643	951.6	170.19	105.79	16.06	170.01	34.61	310.0	12.81	478.5	659.3	565311										412.7
BHF-04 ap21	393254	1956.9	245.54	138.39	22.48	291.24	48.17	642.5	14.65	879.9	1307.0	564319									_	753.6
BHF-04 ap22	393916	1752.6	172.82	96.57	25.61	216.62	33.06	592.2	11.84	760.2	1107.4	564621							12.80 4.24			744.2
BHF-04 ap24	393619	1831.6	317.48	193.48	23.59	327.29	62.09	592.5	25.64	789.5	1294.3	564289										428.3
BHF-04 ap25	395431	749.9	182.09	99.94	10.79	212.35	34.35	196.3	10.11	626.3	702.0	565431					30.22		12.78 1.3	13 0.83		492.4
BHF-04 ap26	394130	1408.8	336.77	230.11	37.79	318.74	69.73	423.6	39.65	595.5	1047.3	564454										612.9
BHF-04 ap27	393146	1780.9	279.84	157.13	21.70	315.42	54.58	266.0	17.73	1006.7	1253.0	564445					45.66 73					803.9
BHF-04 ap28	394322	1398.7	186.22	100.42	18.97	225.41	36.31	432.7	12.03	639.7	981.5	564806						31.82 13	13.36 3.84			861.3
BHF-04 ap29	395026	876.6	249.52	150.16	15.63	256.14	49.79	248.0	18.41	641.0	761.1	565196	0.27	144.3	218.5 2						_	628.9
BHF-04 ap30	394302	1571.2	208.58	108.19	17.30	248.30	39.27	529.9	11.53	637.9	1064.9	564668										609.1
BHF-04 ap31	392901	2509.0	350.82	207.77	18.64	367.27	68.69	842.9	25.26	640.4	1577.4	563578			373.0 3						179.42	509.3
BHF-04 ap32	394913	1312.6	181.72	100.46	22.52	209.72	34.93	415.8	12.87	545.7	919.4	564925										510.3
BHF-04 ap33	393181	74.9	23.46	15.83	9.33	19.28	5.10	32.2	2.74	1653.6	47.4	566251						2.71 2			17.32	2092.8
BHF-04 ap34	395567	0.899	190.31	110.72	11.84	187.01	38.19	194.9	12.19	611.3	543.8	565536										566.9
JEM-02 ap1	396317	1030.7	148.81	77.57	12.84	193.56	27.77	347.3	7.54	215.4	674.6	565270				116.3 2						129.1
JEM-02 ap2	394072	1165.7	229.09	127.95	17.83	262.03	44.22	400.9	13.62	755.2	793.8	564986										1375.8
JEM-02 ap3	395392	518.9	220.42	117.69	15.24	237.01	45.00	152.6	12.29	442.6	486.5	565460										1345.5
JEM-02 ap4	392914	1522.3	303.56	195.49	21.47	287.61	63.23	657.4	23.90	914.5	896.9	564512			239.4 2				27.17 19.7		175.80	1663.2
JEM-02 ap5	392719	1848.5	454.75	234.63	24.51	540.51	86.67	514.6	22.53	840.8	1573.6	563919										988.9
JEM-02 ap6	394182	708.2	230.99	127.26	22.85	240.57	44.64	243.6	14.12	683.2	559.8	565242	1.58				36.80		16.62 9.25		•	2002.6
JEM-02 ap7	392630	1652.0	205.17	121.64	20.00	233.32	40.64	706.1	15.42	1042.4	887.0	564629			215.2						_	1937.7
MLG-01 ap2	391810	809.8	279.73	136.22	25.15	345.82	52.30	256.3	10.59	692.2	818.5	564583							15.38 1.79			4382.9
MLG-01 ap3	392047	746.5	233.80	113.91	23.12	288.03	43.21	242.2	8.75	755.4	710.1	564799		123.8	212.9		38.68		.77 1.70			4240.3
MLG-01 ap4	390083	750.8	239.85	112.94	25.21	300.59	44.77	236.7	7.82	954.1	739.0	564544						4.37 12		15.28		6258.3
MLG-01 ap5	391219	719.1	235.26	118.92	22.11	290.14	44.95	225.0	9.01	768.8	715.7	564659	2.22			-						5260.0
MLG-01 ap6	391464	768.1	256.34	126.99	23.03	321.14	48.61	242.9	9.4	629.7	764.7	564537	2.44									5056.2
MLG-01 ap7	392586	9.629	226.83	111.75	22.77	276.14	42.34	216.5	8.52	592.9	680.4	564847	1.76						12.40 1.35			4016.9
MLG-01 ap9	389792	753.0	242.43	114.62	24.73	302.54	44.55	235.3	7.80	1797.5	742.1	565086	0.79				42.16 4					5110.3
MLG-01 ap10	392206	773.2	238.92	117.86	23.06	290.78	45.37	253.6	9.08	636.4	731.9	564718	2.24					4.49 13	13.27 1.57			4199.7
MLG-01 ap11	391163	616.7	234.35	125.12	24.56	267.81	47.27	192.0	8.97	1033.0	626.0	564926	0.61									5082.9
MLG-01 ap12	392368	6889	225.40	109.98	23.84	283.66	42.98	220.4	8.58	644.0	682.5	564831	2.03				38.19 4			10 20.23		4161.4
MLG-01 ap13	391861	723.0	237.65	115.08	23.75	287.76	44.85	230.0	8.81	775.5	709.1	564786	2.79		_							4465.3
MLG-01 ap15	391613	632.9	247.11	119.25	23.31	299.62	47.15	199.9	8.15	651.7	677.1	564698	0.54					,			_	5100.3
MLG-01 ap16	391845	876.0	261.89	129.75	24.90	320.38		290.8	9.88	691.8	819.1	564573	2.76			•				11 8.59	78.04	4291.3
MLG-01 ap17	391612	678.4	229.62	110.44	23.98	284.54		213.6	7.36	624.1	677.5	564680	0.54						_	•	59.51	5151.8
MLG-01 ap18	391114	7.497	266.82	129.84	25.03	327.82	51.36	238.7	9.45	773.4	771.8	564566	0.58	32.4	242.9	199.5 4	45.28 4	4.89 14	14.09 1.77	7 10.91	73.01	5235.3
<b>7</b> *	*All elements are in ppm.	ents a	re in p	mdc.																		

Appendix C: Eastern Sunda arc apatite trace element chemistry (LA-ICP-MS)

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Analysis ID	Ca	Ce	Dy	ŭ	Eu	gg	Р	La	n.	-		$\dashv$		0)	0)	_	드	Ė	)	>	ΛÞ	Fe
MLG-01 ap19	392165	729.8	237.16	118.67	22.88	296.53	45.21	233.8	8.72	666.8		564758	1.83				`		1.55		67.64	4274.5
MLG-01 ap20	383277	990.3	320.55	103.74	31.18 81.00	407.37	63.36	372.5	12.42	8.4.0	7.600	262600	2.41	1/0.3	303.8 20	239.1	55.90	11.23 18.05			32.70	14269.0
MLG-01 ap21	200000	0.777	232.04	123.01	70.07	900.9	40.74	0.40	9.32	2.4.0	709.3	204000	,					,	0		80.17	4736.2
MLG-01 ap22	399997	0.700	211.98	00.10	22.03	320.08	32.34	70.00.0	0.07	350.2	1.89.1	204091	0.02					•		7 12.00	64.67	5216.2
MLG-01 ap23	30002	2,120	260.12	120.30	24.60	211 86	40.02	260.5	5 5	430.7	783.9	564614							2 . 6		76.73	44033
MLG-01 ap26	390603	784.4	261.65	129.36	25.48	321.24	49.64	248.2	- 6	1286.9	776.5	564817						5.36 14.22			74.62	48917
MLG-01 ap2/	391988	728.5	230.63	115.09	24.01	282.39	43.94	232.2	8 77	785.1	703.6	564822	2.96							15.59	67.10	4295.6
MLG-01 ap28	391851	753.9	242.66	120.30	23.53	296.54	46.56	244.3	9.30	785.3	736.3	564755									70.61	4371.6
MLG-01 ap30	391275	827.5	257.85	127.39	24.37	315.95	49.84	272.3	9.55	684.6	802.8	564489									75.26	5068.9
MLG-01 ap31	389490	838.9	279.25	134.55	26.60	335.06	52.35	262.8	9.39	1729.7	830.4	564861					_	7.39 14.67			75.06	5346.7
MLG-01 ap32	391248	876.7	282.76	140.11	27.24	348.79	53.93	281.4	10.68	821.9	866.1	564511									80.65	4715.4
PCT-01 ap2	391268	2471.8	316.37	158.30	24.54	419.01	60.22	893.6	13.95	673.5	1696.6	563327				238.5 56	55.06 11	•			101.92	2513.2
PCT-01 ap3	396312	322.9	86.93	32.90	72.21	145.64	14.23	74.8	2.46	401.7	377.5	565711					18.04 11			V	20.02	521.5
PCT-01 ap4	389527	3551.4	404.51	187.08	27.34	571.32	73.88	1272.1	15.29	839.0		562207					72.51 14				116.25	2333.4
PCT-01 ap6	390736	2727.3	356.88	177.06	23.52	478.45	67.64	986.4	14.52	824.4		563095	1.02							5 6.26	110.59	2380.4
PCT-01 ap7	391224	2484.6	320.83	162.57	26.41	413.32	60.32	892.9	14.40	746.5							56.00 17	17.23 19.2			109.14	2427.3
PCT-01 ap8	395593	701.4	249.47	126.41	66.20	309.23	46.56	164.9	14.21	537.6											92.06	177.1
PCT-01 ap9	391198	2560.4	334.32	164.09	26.99	436.85	61.73	914.4	14.31	9.629	1780.9	563197		367.5							107.07	2454.0
PCT-01 ap11	391043	2659.3	341.63	175.62	28.41	456.30	66.46	951.1	15.29	655.0		563093									113.99	2431.8
PCT-01 ap12	391439	2365.8	303.44	152.97	24.22	400.72	57.86	857.4	13.45	8.699		563447								4.51	97.24	2508.9
PCT-01 ap14	390870	2749.8	358.10	173.67	24.15	469.98	67.45	995.9	14.59	816.6		563111									109.97	2219.0
PCT-01 ap15	388389	3176.8	423.09	208.13	26.15	559.25	78.52	1114.5	17.67	1758.9		562830			512.0 19						132.79	2575.4
PCT-01 ap16	390967	2415.9	367.76	189.47	38.46	460.94	70.24	845.0	17.64	1095.6		563525									131.96	2078.4
PCT-02 ap1	392771	1104.9	307.42	151.83	41.85	387.35	58.68	348.2	11.44	429.4	1088.4	564292			306.4 34		52.56 3		.0 0.95		87.88	3002.2
PCT-02 ap2	392649	1160.2	328.10	160.09	43.89	412.38	62.73	367.5	11.78	421.6		564187									94.07	3003.3
PCT-02 ap3	392768	1014.8	284.08	137.03	39.45	359.12	54.12	325.9	10.35	485.1		564432								2 8.98	80.21	3122.7
PCT-02 ap4	392287	1203.8	341.15	166.69	47.38	424.03	65.46	382.6	12.43	535.2		564143			342.3 34						97.18	3119.0
PCT-02 ap6	392251	1164.4	331.16	160.23	45.02	409.39	62.17	367.7	12.27	582.5	1134.5	564227							1.16		93.32	3207.1
PCT-02 ap7	393091	991.3	275.48	134.79	39.40	346.61	52.48	317.8	9.91	417.1		564476									79.18	2921.8
PCT-02 ap8	392426	0.776	272.73	131.22	37.32	344.85	51.03	307.6	10.11	532.5		564448									78.42	3565.1
PCT-02 ap9	392675	1153.1	332.01	159.47	47.66	413.46	62.47	366.6	12.28	392.7	1146.1	564169						.06 17.83			95.29	3012.3
PCT-02 ap 10	392821	1089.6	300.82	149.03	42.77	377.65	99'29	344.3	10.80	429.5		564320									85.64	2984.0
PCT-02 ap11	392093	1318.6	365.38	179.95	45.76	458.18	69.11	414.6	13.15	529.0	1302.3	563983								1 0.32	105.02	3111.9
PCT-02 ap12	392652	1102.1	306.16	150.71	43.94	388.70	57.89	352.7	11.42	472.0	1092.1	564294							_		88.79	3054.1
PCT-02 ap13	392565	1175.5	328.91	163.04	45.18	425.42	62.71	371.0	12.11	420.3	1150.2	564157	3.90					2.97 17.97		3 0.48	92.53	3076.9
PCT-02 ap14	392066	1375.4	386.38	188.38	47.20	486.73	73.75	433.8	13.74	454.1	1369.5	563847									108.32	3106.4
PCT-02 ap15	392935	958.7	273.37	136.90	45.59	331.34	52.03	304.0	10.88	464.9	952.0	564509							_		82.17	3093.1
PCT-02 ap16	392778	1157.4	316.47	154.81	44.46	399.81	96.09	369.6	11.50	413.4	1141.0	564222									89.40	2892.2
PCT-02 ap17	392885	1003.6	287.15	140.58	40.45	362.07	54.15	324.1	10.74	462.3	1010.3	564435				-					81.78	3020.6
PCT-02 ap18	392533	1041.8	295.39	144.08	40.72	370.42	55.76	336.0	10.99	632.1	1029.1	564452								0.43	86.35	3075.9
PCT-02 ap 19	393637	766.6	224.65	111.99	46.78	281.55	42.91	236.4	8.94	274.9	769.8	564720							_		96.89	3022.8
PCT-02 ap20	392541	1201.9	345.18	165.76	47.07	426.10	64.41	379.9	12.64	413.4	1199.2	564105									97.29	3023.3
PCT-02 ap21	392772	1119.0	316.61	153.67	44.15	397.86	59.99	355.8	11.73	409.0	1110.3	564247									91.62	2971.5
PCT-02 ap22	392778	1038.8	290.50	140.04	40.32	366.82	55.20	331.9	10.65	455.4	1025.1	564383	8.02				_	2.85 15.70	_		83.67	3101.9
PCT-02 ap23	392812	1036.6	285.38	135.21	39.80	357.58	54.03	326.3	10.55	424.9	1011.6	564385							_		83.37	3156.0
PCT-02 ap24	392068	1141.0	321.31	158.28	47.49	403.00	59.25	354.5	11.71	680.1	1107.8	564282	11.63						1.13		90.81	3310.5
PCT-02 ap25	392018	1376.8	387.45	188.86	57.83	497.63	73.72	430.9	14.20	436.3	1369.0	563810	0.36					5.27 21.45	1.60	0.86	114.03	3159.9
PCT-02 ap26	392503	1176.9	335.04	161.32	45.42	423.49	63.37	376.9	12.22	429.1	1174.2	564136	•								95.68	3106.0
PCT-02 ap27	392505	1220.0	338.29	166.56	46.75	433.41	64.51	384.7	12.46	430.1	1201.9	564102	0.33	210.5	337.1 34	346.4 58	58.76 3	3.24 18.11	1.19	9 0.24	97.13	3020.7
<b>V</b> *	*All elements are in ppm.	ents an	e in p	pm.																		

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Appendix C: Eastern Sunda arc apatite trace element chemistry (LA-ICP-MS)

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Analysis ID	Ca	Ce	Dy	Ē	Eu	PS	유	La	Lu	Na	PN	Ь	Pb	Pr	Sm								Fe
PCT-02 ap28	392683	1158.7	327.46	161.19	48.75	403.93	62.18	361.1	11.99	420.3	1121.5	564207	0.18	197.3	321.3	354.0	55.30	3.26	18.05	1.19	0.52	92.68	2989.2
PCT-02 ap29	391672	1285.7	374.88	183.48	50.51	474.12	71.19	412.2	13.98	434.7	1297.4	563814	19.36	224.4	370.7	339.8	64.01	4.11	20.36	1.35	0.26	06.42	3746.8
PCT-02 ap30	392442	1143.6	320.66	154.63	46.16	415.12	69.09	359.4	11.59	479.3	1156.8	564197	6.24	200.4	325.8	333.4	55.44	3.30	17.38	0.87	17.92	91.34	3154.6
PCT-02 ap31	391917	1225.8	348.58	167.92	47.10	432.71	65.59	384.9	12.95	687.4	1229.5	564152	0.22	212.3	350.1	337.2	59.12	3.18	18.40	1.17	0.87	00.61	3245.5
PCT-02 ap32	393093	955.5	274.49	135.11	42.75	343.79	52.13	295.6	10.28	397.6	947.0	564495	0.42	164.2	270.9	348.0	46.14	2.79	14.77	1.09	1.23	81.38	3027.1
PCT-02 ap33	392988	930.1	256.58	120.58	40.38	317.89	49.41	304.4	9. 6	246.4	902.3	504628	0.45 0.03	161.7	252.7	343.6	44.33	2.13	06.41	0.65	10.56	75.87	2987.1
PCT-02 ap34	392437	636.5 7.04.0	107 08	08.20	46.00	738.57	37.32	300.0	20.2	275.4	4.7.7	504002	0.92	111.7	186.9	350.0	33.06	3.30	1.0.7	27.0	1,00	64.37	3032.9
PC1-02 ap35	396505	613.6	102.88	43.91	21.56	148 97	18.71	196.2	3 6	447.2	462.8	565808	0.55	5 0	133.4	# C80	19.00	8.35	97 7	0.70	2.23	23.81	262.1
LB001_ap_1	396315	514.7	138.16	72.57	16.96	175.69	26.88	158.4	5.84	334.1	440.4	565697	0.12	6.82	129.6	85.4	23.80	17.10	2.90	0.47	2.53	43.63	714.9
LB001_ap_10	394374	1049.7	193.31	97.39	26.27	227.12	36.30	356.9	8.82	993.5	774.1	565320	0.44	153.9	199.6	300.3	32.69	5.29	11.50	<u>7</u>	35.47	09:99	735.4
LB001 ap 12	396516	770.3	148.41	73.80	17.93	193.18	29.00	242.1	6.41	296.8	600.3	565523	0.15	112.6	158.4	89.8	26.03	19.07	8.37	1.73	3.30	46.60	116.4
LB001_ap_12	396554	555.1	98.71	43.82	17.24	154.53	17.86	171.0	3.14	520.0	452.4	565891	0.54	84.2	126.0	90.4	18.62	37.37	4.57	2.69	1.99	23.75	130.5
LB001 ap 14	395644	872.7	211.06	115.82	20.26	227.69	42.00	274.1	12.34	656.3	658.8	565439	0.29	130.2	185.3	245.3	34.01	9.21	14.72	3.09	7.10		109.1
LB001 ap 15	382299	630.9	102.96	43.62	15.66	155.12	17.98	182.7	3.35	506.0	486.6	563001	0.73	92.9	129.2	102.8	19.31	50.34	4.70	3.15	38.97		17088.4
LB001 ap 16	396304	770.8	124.63	60.03	16.14	176.22	23.38	251.8	4.77	440.4	579.8	565618	0.17	111.4	145.3	7.78	22.46	26.39	6.24	0.94	2.80		192.5
LB001 ap 17	396006	513.4	117.47	56.58	14.40	168.85	22.21	146.5	4.40	0.067	466.3	565975	0.29	83.0	130.0	83.8	21.25	33.77	6.18	2.33	2.30		324.5
LB001 ap 18	396443	634.1	110.04	49.86	18.54	163.05	19.77	197.5	3.75	507.1	497.2	565802	0.39	95.7	136.6	98.5	20.28	20.12	5.24	1.31	4.02		146.0
LB001 ap 19	392933	1388.6	211.24	120.42	28.17	206.63	43.26	490.8	12.55	1123.2	881.0	564918	0.94	187.0	192.6	303.6	32.63	10.10	15.38	3.28	25.16		1780.8
LB001 ap 2	390782	374.7	141.44	73.84	16.98	173.81	28.03	124.0	5.93	250.6	338.0	564630	0.42	58.5	113.3	78.5	23.96	22.37	8.30	1.08	5.50		7703.4
LB001 ap 20	396508	583.8	102.91	43.51	19.79	155.80	17.80	192.6	3.03	522.4	449.5	565880	0.80	1.78	129.9	83.1	19.51	5.44	4.35	0.28	2.71		164.8
LB001 ap 3	396116	624.0	105.55	44.79	19.22	164.86	18.75	195.3	3.47	463.1	501.0	565711	0.24	95.3	139.1	85.6	19.46	25.20	4.76	2.00	2.45		634.1
LB001_ap_4	396420	635.2	134.59	58.40	18.37	189.63	24.02	194.8	4.10	452.8	546.9	565704	0.30	100.8	160.8	90.4	24.70	36.79	6.30	98.0	1.99	32.96	161.6
LB001_ap_5	394216	1747.7	202.77	99.35	21.99	254.87	37.64	683.8	8.66	678.7	1013.3	564642	0.67	221.4	230.7	210.3	34.60	22.62	11.40	4.25	12.35		580.4
LB001_ap_6	395207	678.5	125.29	59.84	16.97	175.57	23.23	206.7	4.48	6.906	536.2	565791	0.37	103.1	146.2	101.8	22.82	26.67	6.33	0.91	5.17		820.9
LB001_ap_7	393950	542.9	134.35	71.60	14.79	176.72	26.71	174.3	6.01	371.8	446.8	565238	0.15	80.5	126.9	76.2	23.68	29.94	7.75	1.1	7.07		3450.2
LB001_ap_8	396629	582.6	112.18	51.43	18.77	153.29	20.09	180.2	3.99	400.4	466.5	565801	0.25	88.8	129.6	87.9	19.85	15.00	5.58	0.39	2.92		201.5
LB001_ap_9	396363	652.7	187.39	96.24	19.66	231.40	36.12	185.2	8.78	393.0	596.2	565547	0.54	105.6	180.8	72.5	32.30	73.66	11.26	2.80	2.66	64.34	136.1
LB010_ap_1	396620	458.5	141.96	65.98	20.70	182.57	25.83	134.5	5.75	463.5	435.2	565868	8.27	75.5	136.0	117.0	24.34	2.80	99'.	0.18	2.54	42.60	153.0
LB010_ap_10	391876	2395.9	195.17	97.87	26.27	253.24	36.38	942.9	9.05	1359.1	1229.6	564298	0.79	285.9	249.4	238.0	33.84	17.53	11.35	6.56	19.78	20.79	1348.7
LB010_ap_11	394580	1035.5	180.46	92.32	21.41	225.39	34.53	321.1	8.84	513.9	766.5	565064	0.42	152.1	199.5	142.0	30.47	20.49	11.09	1.50	3.86	65.43	1528.2
LB010_ap_12	396388	538.6	134.45	62.52	24.72	188.88	24.71	148.2	5.13	489.8	505.8	265790	2.57	87.5	147.3	117.9	24.74	3.66	09.9	0.36	3.16	36.77	267.3
LB010_ap_13	395442	893.4	244.21	120.35	16.62	298.06	44.74	242.3	8.54	719.4	808.1	565376	1.78	146.5	228.0	108.3	39.96	25.11	12.55	0.67	2.85	63.09	156.3
LB010_ap_14	395594	654.5	102.90	48.34	19.59	134.59	18.77	230.3	4.12	676.3	485.3	565717	0.41	95.5	120.1	362.6	17.50	5.13	5.51	1.19	19.89	30.73	655.0
LB010_ap_15	394749	584.8	114.01	57.40	21.30	143.89	21.88	199.8	5.16	772.8	474.3	265657	1.48	87.0	122.5	274.4	19.54	3.17	6.47	0.90	30.61	37.22	1614.3
LB010_ap_16	395702	598.1	208.81	108.76	29.00	242.02	40.40	148.2	10.58	520.0	624.4	565516	4.20	104.5	183.7	107.3	34.66	19.30	12.29	0.78	5.85	69.14	705.5
LB010_ap_17	396307	531.1	166.19	90.22	21.77	201.87	33.48	147.9	7.92	563.3	459.2	565801	5.01	83.6	142.7	114.5	28.37	20.43	10.73	0.93	5.08	60.21	193.2
LB010_ap_18	394527	747.4	126.51	62.07	25.79	165.50	23.65	256.6	5.38	745.0	585.3	565501	1.23	110.5	145.1	353.8	21.94	3.39	7.07	1.00	25.32	39.73	1442.5
LB010_ap_19	306067	0.020.0	260 04	160.69	24.97	260.90	21.12	7 60.0	4 6	0.057	404. 520.e	202307	12.11	ş 5	127.	124.0	41.64	00.00	0.73	7 7 7	2.23	30.27	252.4
LB010_ap_2	304623	11017	10.802	100.00	700.47	245.27	37.23	26.47	0.00	200.0	0.00	565147	0.0	2.101.9 6.175.4	0. 4.0	1220	22.52	10 77	20.32	17.4	70.7	20.12	715.2
LB010_ap_20	395169	794.6	143.23	59.45	22.33	240.31	24.79	248.8	4 73	1029.3	627.5	565758	0.52	1. 2. 4	180.1	124.6	32.32 27.08	14.49	2 6	1 12	3.07	34.65	393.1
LB010_ap_21	393343	1274.6	198.56	107.05	35.26	235.42	38.26	4434	10.98	1081.2	907.3	565017	0.59	183.5	216.7	243.8	33.13	11.10	13.07	23.5	23.23	80.97	1498.1
IB010 ap 23	396270	602.8	119.52	52.75	23.07	169.09	21.47	179.1	3.88	508.8	490.4	565770	2.37	91.8	141.0	121.7	22.14	21.60	5.51	0.49	2.12	29.43	348.7
LB010 ap 24	392794	1727.0	255.71	142.04	32.96	286.06	50.21	623.3	15.32	1229.3	1088.2	564662	0.72	232.9	259.3	253.0	41.55	23.84	18.42	8.57	17.51	13.23	1123.5
LB010_ap_25	395134	1341.9	181.72	99.14	24.15	246.89	34.79	408.6	96.6	543.6	8.066	564974	0.44	194.3	213.2	101.5	31.23	48.07	11.33	3.21	3.57	67.58	335.4
LB010 ap 26	395733	980.5	160.45	81.07	16.67	219.08	30.59	282.3	7.37	477.0	784.3	565321	98.0	147.8	194.6	110.2	27.54	18.60	9.20	1.36	2.90	50.46	341.5
LB010_ap_27	393186	1541.3	295.46	167.69	23.79	321.67	58.09	535.6	17.17	1066.4	1026.9	564693	0.49	212.1	265.8	244.0	47.87	18.19	21.15	6.18	12.38	24.55	1113.8
LB010_ap_28	396388	703.0	164.43	87.03	17.73	210.82	32.24	188.6	8.27	353.3	613.1	565531	1.20	112.0	167.5	84.6	26.99	57.35	10.40	4.31	2.53	58.56	176.0
	391364	2379.0	305.59	167.45	26.28	359.83	59.07	866.9	16.31	1581.9	1426.3	564162	0.57	309.2	321.6	231.1	50.39	25.77	20.33	7.21	20.80	18.64	1179.9
*	*All elements are in ppm.	ents a	re in p	pm.																			

Appendix C: Eastern Sunda arc apatite trace element chemistry (LA-ICP-MS)

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Analysis ID	Ca	Ce	Dy	Er	Eu	PS	Но	La	Lu	Na Nd	Ь	Pb	Pr	Sm	Sr	Tb	Th	Tm	Π	۸	Yb	Fe
LB010_ap_4	395072	1190.1	414.95	223.25	15.33	428.95	83.80	275.1		_			.,				25.95	26.79	2.07	4.28	149.15	9.69
LB010_ap_5	395467	1141.4	219.13	116.23	20.42	275.21	42.37	323.2						.,			20.24	13.74	2.14	4.47	82.30	192.1
LB010_ap_6	394982	897.8	137.52	68.62	25.49	176.98	25.95	315.3					0.28 130.3		.,		6.25	8.01	1.69	21.66	45.08	891.6
LB010_ap_7	395958	810.1	133.49	60.16	23.08	190.67	24.32	254.1			610.9 56						7.65	6.43	09:0	2.17	35.75	191.9
LB010_ap_8	392360	1929.0	351.63	188.83	27.36	401.75	68.92	644.5	•	,			1.08 271.2	.2 342.7		1 59.58	52.27	22.75	7.31	12.17	129.42	1097.1
LB010_ap_9	396333	567.2	125.60	51.58	35.37	166.61	21.12	171.5									3.10	5.50	0.10	0.69	31.97	542.2
LB011_ap_1	391345	1707.2	252.76	122.56	24.51	342.28	47.30	624.8	_				•				4.29	14.05	1.08	32.14	74.03	2468.2
LB011_ap_10	392707	1232.5	202.38	99.97	26.04	259.70	37.39	431.8			954.6 56						3.89	11.46	0.99	30.18	58.17	2449.6
LB011_ap_11	392764	1110.0	178.81	86.97	27.13	230.40	33.58	391.5		1132.9 8				.2 211.5		7 30.22	4.17	10.12	1.14	35.94	56.44	2176.0
LB011_ap_12	392876	1098.8	177.89	87.13	28.83	234.98	33.47	386.1				_					4.53	9.94	1.16	35.42	54.85	2654.8
LB011_ap_13	392870	923.2	164.32	77.80	24.53	221.11	29.42	310.4						.6 195.6			4.46	8.76	1.14	28.73	43.72	2766.5
LB011_ap_14	391736	1430.7	230.52	111.26	28.39	298.10	43.44	501.7	•								4.76	12.79	1.22	31.98	70.02	2687.1
LB011 ap 15	393917	827.0	150.48	72.06	23.29	203.68	28.58	277.0									4.34	8.19	1.19	24.39	44.78	2221.2
LB011_ap_16	391854	1581.9	240.11	118.35	25.66	321.12	44.36	571.2								-	4.71	13.28	1.18	37.93	71.51	2436.1
LB011 ap 17	391505	1367.8	221.25	108.57	26.47	292.66	41.69	473.8									3.91	12.31	1.06	29.70	69.10	3052.3
LB011_ap_18	393332	1154.9	193.41	92.45	25.03	265.82	35.68	387.1				564946 1.9	1.93 177.5		.9 480.3	34.49	3.79	10.40	0.99	28.62	56.92	1623.0
LB011 ap 19	391585	1610.5	237.03	115.05	24.24	325.45	43.89	583.6				564384 2.	2.16 235.4				4.32	13.10	1.1	26.17	68.22	2525.2
 LB011 ap 2	392967	1032.8	182.77	86.26	27.13	250.15	34.25	341.7									3.80	9.79	1.00	33.99	50.77	2558.2
LB011 ap 20	392590	1228.2	197.68	99.40	27.21	256.70	36.62	431.7				564705 0.8						11.09	1.05	37.27	60.79	2551.5
LB011 ap 21	393640	824.5	147.99	72.62	23.07	196.46	27.49	275.1					0.60 127.2		1.0 463.6	3 24.49	3.82	8.08	1.07	30.71	45.33	2411.6
LB011 ap 22	390793	1911.7	303.89	154.40	23.70	387.63	55.16	0.969		•		564094 2.0						17.55	1.08	24.23	94.06	2439.8
LB011 ap 23	391667	1489.0	235.45	116.92	27.34	306.71	42.77	530.4				564340 1.0	37 220.0		3.4 453.6		5.31	12.99	1.28	26.04	70.60	3014.5
LB011 ap 24	393354	1124.6	197.41	98.40	22.68	250.81	37.44	386.1	8.59		887.7 56	564779 2.0	2.62 169				4.17	11.20	0.91	29.67	63.06	2282.1
LB011 ap 25	391455	1419.4	227.87	111.94	26.34	299.63	43.58	501.2									4.29	12.88	1.14	35.54	71.51	2606.8
LB011 ap 26	393486	918.0	168.91	84.79	27.84	224.33	32.13	304.1									4.55	9.72	1.16	25.30	54.48	2491.9
LB011 ap 27	393669	827.8	149.05	69.28	24.33	201.11	27.52	273.1					0.74 127.8				3.67	7.92	1.01	34.87	41.25	2304.7
LB011_ap_28	393668	895.3	162.10	81.04	22.59	223.18	30.65	288.6					0.75 141.9				3.64	9.04	0.91	41.29	47.10	2065.1
LB011_ap_29	392128	1481.7	226.48	111.27	23.15	297.80	41.36	532.6		_			1.11 215.2					12.18	0.97	30.08	65.49	2465.7
LB011_ap_3	391495	1772.1	280.82	137.21	26.15	368.68	51.85	634.7	•	_		564142 1.4						15.99	1.16	35.00	88.25	2370.3
LB011_ap_30	393389	879.9	150.87	76.11	24.99	201.70	28.60	295.2	5.82	774.8 7								8.31	0.95	38.00	43.55	2478.9
LB011_ap_31	391656	1795.3	277.12	128.83	27.04	357.78	49.35	642.7			/		•					15.20	1.18	35.43	80.98	2294.7
LB011_ap_32	393699	701.3	128.52	61.97	20.19	175.58	24.10	226.9		768.7	601.9 56							7.10	0.81	39.20	35.97	2470.8
LB011_ap_4	392843	1168.0	191.26	94.04	27.32	250.91	35.86	409.3			/	,						11.07	1.02	37.59	62.24	2209.3
LB011_ap_5	391889	1497.1	233.79	112.61	25.58	311.28	43.60	533.4			-,	,		.2 273.0				13.07	1.08	33.99	71.70	2628.6
LB011_ap_6	392049	1538.0	233.36	115.48	24.20	313.31	43.02	560.2		•		,	•					12.40	1.05	28.55	66.19	2529.9
LB011_ap_7	392980	941.7	171.54	84.02	26.07	238.41	32.33	308.3	6.77	667.2 8		_				30.38	4.29	9.27	1.15	29.78	51.93	2961.7
LB011_ap_8	391747	1519.1	236.61	113.03	25.36	312.84	43.89	539.1			1148.0 56	564369 1.0	•	.4 283.2				12.67	1.19	32.19	99'29	2760.6
LB011_ap_9	392955	1053.5	175.75	88.50	28.57	227.28	33.18	361.2					•		•			10.12	1.16	31.23	58.92	2121.8
NEF-01_ap_3	395744	212.1	101.92	48.94	16.69	125.36	18.06	50.3			/		0.67 40.7	.7 96.5				5.82	0.40	1.81	36.41	1908.1
NEF-01_ap_4	394832	180.9	106.02	41.56	19.38	144.19	17.48	47.6										4.77	3.46	2.91	25.54	2494.1
NEF-01_ap_5	394210	367.3	111.88	45.57	18.69	160.12	18.18	109.1										4.78	0.97	1.59	24.03	3071.9
NEF-01_ap_6	395091	192.8	97.07	32.33	18.73	149.61	14.62	47.7	1.60	333.1 3	-,			43.5 122.5				3.24	09:0	1.74	15.94	2637.4
NEF-01_ap_7	392683	283.1	102.12	37.20	20.25	155.32	16.55	74.3			-	_					7.82	4.71	3.75	2.98	25.63	4162.0
NEF-03_ap_1	395075	445.8	158.59	41.73	32.80	317.13	20.97	110.8	1.98		661.7 56			0	3 173.0	.,	0.43	3.85	0.09	1.50	18.43	943.8
NEF-03_ap_10	397626	86.1	61.48	18.79	9.89	108.10	9.11	19.0	1.15		-,						0.16	1.89	0.01	1.49	9.43	355.1
NEF-03_ap_11	395466	174.8	108.02	38.74	20.11	168.62	17.06	44.4	2.75		-,				.,		0.33	4.10	0.08	6.63	22.18	1940.9
NEF-03_ap_12	395916	356.9	91.20	38.19	26.70	135.23	15.56	108.0	3.52		4,	_			•		1.29	4.56	0.14	1.78	27.11	1222.4
NEF-03_ap_14	396378	160.5	93.14	34.59	18.86	143.54	14.50	42.3	3.42		۳,	_		_	,	,	0.48	4.25	0.16	2.21	23.92	1141.2
NEF-03_ap_15	396539	331.2	74.95	30.59	27.04	110.75	12.66	96.4	2.39		4,			56.7 10			2.89	3.47	0.10	1.98	18.69	9.798
NEF-03_ap_16	396235	200.5	96.84	36.29	19.41	140.15	15.48	57.5	2.84	276.9 2	249.6 56	65875 0.3	0.37 37		107.4 234.6	3 18.31	0.55	3.91	0.16	2.02	22.64	1366.9
*	*All elements are in ppm.	ents a	re in p	.md																		

Appendix C: Eastern Sunda arc apatite trace element chemistry (LA-ICP-MS)

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Analysis ID	Ca	Ce	Dy	Er	Eu	PS	Но	La	Γn	Na	PN	Ь	Pb	Pr	Sm	Sr	. qт		Tm	A n		Yb	-e
NEF-03_ap_17	397042	191.1	114.82	39.12	15.39	172.23	17.68	49.4	1.94	276.6	292.6	566015	0.54	40.5	135.1	155.9	22.56	0.70	3.87	0.03	2.23	18.26	391.3
NEF-03_ap_18	394028	236.5	132.58	41.66	30.59	217.25	19.75	629	2.67	1344.1	364.0	266080	0.80	48.6	183.6	246.7	27.57	0.32	4.53	0.15	3.40	24.03	1896.7
NEF-03_ap_19	396957	235.9	98.53	46.87	11.89	112.46	18.99	0.69	4.19	206.4	233.5	565978	0.32	39.2	80.1	134.5	16.68	26.24	5.26	2.10	2.57	29.71	688.0
NEF-03_ap_20	395864	208.0	99.93	38.55	18.54	148.73	15.52	57.1	3.54	503.6	272.3	565955	0.47	39.8	118.2	181.0	19.35	0.55	4.41	0.19	4.18	27.17	1420.1
NEF-03_ap_21	393947	137.4	24.80	12.28	15.48	27.24	4.43	61.6	1.70	1862.9	91.6	566713	0.82	18.9	27.4	407.5	4.4	4.42	1.73	0.43	20.53	11.61	1602.4
NEF-03_ap_3	393871	186.8	113.15	44.54	23.79	159.32	18.38	53.7	4.45	1215.3	244.3	565990	63.43	36.0	121.0	392.8	21.49	0.42	5.71	0.00	5.82	33.44	2337.0
NEF-03_ap_4	396634	245.9	88.94	26.89	20.49	170.00	12.99	62.6	1.58	350.5	353.4	565955	0.27	50.3	144.5	178.3	20.14	0.47	2.67	0.05	2.15		666.3
NEF-03_ap_8	392450	143.7	137.70	55.38	18.14	190.29	23.10	29.9	3.92	574.1	281.7	565299	1.56	35.2	143.3	224.7	26.08	0.62	6.17	60:0	44.06		5275.5
NEF-03_ap_9	395078	328.7	119.50	38.36	22.47	219.99	17.55	81.9	3.19	796.5	481.2	565835	0.67	0.69	201.3	166.8	26.14	0.72	4.34	0.15	1.78		1480.6
SEF-01_ap_1	395687	1757.8	51.97	25.10	11.4	84.76	9.58	775.7	2.52	327.9	714.3	564984	0.57	195.0	109.5	96.4	9.87	19.64	3.03	2.78	11.93		100.8
SEF-01_ap_10	396501	981.1	58.06	29.73	12.33	88.85	10.81	334.3	3.09	297.4	541.1	565558	0.22	128.3	92.4	108.6	10.39	34.21	3.58	0.38	4.81	21.43	180.0
SEF-01_ap_11	395365	1974.4	71.86	33.20	10.43	121.19	13.13	845.0	2.75	355.8	843.3	564768	0.45	217.9	136.6	108.7	13.66	27.41	3.64	2.73	16.89	20.20	47.1
SEF-01_ap_12	394040	1138.7	62.41	32.70	16.43	96.45	12.37	467.3	3.43	1141.1	596.6	565512	2.31	140.8	104.7	366.7	<del>1</del> 5	19.21	3.76	4.68	12.24	24.05	1188.3
SEF-01_ap_13	395281	2172.5	74.71	34.78	17.90	119.62	13.63	922.6	3.31	269.9	875.4	564584	0.43	231.7	136.0	103.9	13.75	11.10	4.16	3.25	14.09	24.14	55.3
SEF-01_ap_14	395963	1476.3	55.35	26.48	8.05	86.67	10.22	586.9	2.41	400.2	644.4	565263	1.13	169.0	100.6	89.0	10.36	26.74	3.12	1.76	9.72	17.00	46.8
SEF-01_ap_15	395972	1114.5	53.21	24.33	8.66	82.52	9.65	422.2	2.00	414.0	543.8	565484	0.63	133.6	91.4	98.0	9.76	22.63	2.71	0.45	6.88	14.18	488.4
SEF-01_ap_16	396104	1450.4	54.18	25.11	9.26	86.02	9.86	598.0	2.29	301.1	645.1	565223	0.40	166.9	101.6	103.7	10.11	28.82	2.88	1.56	10.20	16.48	48.7
SEF-01_ap_17	305303	940.7	40.40	54.04	11.07	97.00	2.23	303.4	5 c	9.005	200.0	202230	0.20	240.0	100.4	101.7	4.7	25.30	5.70 00 00 00 00	0.3Z	7.13	78.09	5.55
SEF-01_ap_18	395209	1651 1	4 90 20 20	26.30	09 8	02.33	9.00	900.3	4.7 4.0 5.5 6.4	3620	7125	564190	2.0	185.4	108.7	0.00	9.20	20.39	2.30	2.30	10.02	10.03	0.8.0
SEF-01_ap_19	396749	750.6	76.94	43.70	10.30	0.16	14.62	276.0	4 97	337.0	477.1	565732	0.35	101.6	- 696	122.5	12.3	15.99	2 20	5 12	12.57	34.00	20.5
SEF-01_ap_2	395191	1913.9	77.39	38.03	15.93	126.51	14.64	877.8	3.38	478.0	831.0	564828	0.79	213.3	138.6	114.5	14.51	15.47	4.30	4.37	21.00	24.30	52.2
SEF-01 ap 3	395118	1172.9	46.73	22.45	7.59	70.69	8.41	458.7	2.50	328.1	510.1	565248	0.64	133.5	81.8	85.3	8.41	17.41	2.81	0.93	13.45	16.90	1644.0
SEF-01 ap 4	394492	2647.4	59.03	25.73	16.26	103.94	10.08	1269.7	2.30	335.1	936.6	564179	1.57	265.0	130.6	341.4	11.36	20.46	2.91	4.29	21.26	16.11	106.2
SEF-01 ap 5	395624	932.3	57.25	27.20	9.05	83.69	10.55	319.5	2.31	371.5	482.9	565494	0.30	116.0	87.9	101.2	10.23	15.50	3.05	0.12	8.93	16.50	1225.2
SEF-01_ap_6	395904	1586.5	51.18	21.64	9.52	87.35	8.92	667.5	1.65	367.0	659.3	565169	0.53	174.5	101.6	93.8	99.6	21.74	2.41	1.08	8.32	13.04	39.2
SEF-01_ap_7	393721	641.2	61.24	30.56	69.6	88.70	11.48	198.8	2.40	291.9	408.6	565213	0.30	89.2	85.1	96.4	10.93	11.29	3.29	0.10	17.42	18.33	3989.1
SEF-01_ap_8	395853	1242.4	70.02	32.83	8.16	111.61	13.16	518.0	2.76	614.9	612.4	565489	0.71	145.4	110.2	84.9	13.19	15.57	3.55	1.73	8.54	19.16	27.8
SEF-01_ap_9	396431	1371.1	45.81	22.15	9.98	73.18	8.43	581.7	2.15	189.1	560.1	565290	0.64	151.1	84.7	0.06	8.29	11.74	2.70	1.94	15.46	14.69	33.2
SEF-02_ap_1	395180	2160.7	83.13	39.96	21.64	126.81	15.15	1062.3	3.56	248.4	841.7	564508	0.55	220.5	136.1	158.1	15.17	24.03	4.64	5.66	26.58	26.31	90.5
SEF-02_ap_10	394832	2076.0	71.06	35.31	21.11	110.53	13.17	1016.0	3.65	398.0	782.1	564629	0.33	210.3	123.4	117.7	13.03	33.89	4.08	4.91	16.35	24.39	462.9
SEF-02_ap_11	396092	1402.5	94.92	45.22	15.32	90.161	\$ :	534.1	4.4	210.4	/84.6	1,000	0.24	9.07	154.2	94.5	18.09	32.65	5.31	3.75	21.36	29.23	40.7
SEF-02_ap_12	394989	1876.5	63.10	30.12	12.56	103.75	11.32	738.1	2.67	590.9	191.1	564959	0.43	Z10.5	120.6	93.5	11.80	32.42	3.35	55.7	9.49 R	18.36	323.9
SEF-02_ap_13	396645	1082.5	44.72	19.10	10.41	82.28	9 6	387.7	5 5	7 991	679	565476	2 .40	136.0	92.0	85.2	6.9	28.75	2 05	0.25	2.93	11.03	87.4
SEF-02_ap_14	395994	1583.8	56.08	25.42	12.62	103.37	10.30	608.2	2.16	216.3	752.2	565033	2.86	188.8	118.0	82.6	11.32	61.64	2.62	96:0	7.14	15.21	108.3
SEF-02_ap_2	394548	2609.2	90.10	42.41	21.98	147.72	16.97	1171.3	3.90	304.4	1079.1	564109	1.73	281.4	170.7	109.7	17.27	120.14	4.81	5.82	16.33	28.53	7.76
SEF-02_ap_3	395483	1674.6	67.46	29.85	16.53	109.82	12.06	734.5	2.17	232.2	727.0	564886	0.30	185.2	122.6	114.6	12.74	22.31	3.19	<del>1</del> .3	17.11	17.11	527.9
SEF-02_ap_4	397169	460.1	43.45	19.22	9.26	77.95	7.80	114.3	1.61	125.3	385.1	562895	0.38	73.5	77.4	84.1	8.93	7.03	1.97	0.09	3.48	10.94	423.6
SEF-02_ap_5	396430	1189.9	72.86	33.62	12.99	119.36	13.31	385.4	2.54	208.5	697.5	565319	0.45	159.4	131.4	83.2	14.11	29.87	3.51	0.30	3.67	18.70	8.69
SEF-02_ap_6	394161	2431.0	87.26	42.34	22.25	138.81	16.16	1155.1	3.99	705.8	953.8	564441	0.70	251.0	155.1	178.0	16.20	83.44	4.89	7.71	29.93	28.12	82.9
SEF-02_ap_7	395640	17.24.7	66.32	30.32	13.60	115.48	12.05	697.4	24.5	236.1	97.87	564884	0.51	3.66.	127.3	92.3	12.54	46.00	3.33	1.59	9.50	17.38	279.5
SEF-02_ap_8	396390	2.00.1	14.32	33.09	0.20	117.07	5.00	300.0	3.24	<u>y</u>	0.680	202222	0.23	1 20 -	123.8	0.70	50.4	¥ 5	5.0 - 0	5 5	3.80	44.04	200.7
SEF-02_ap_9	395004	1304.1	120.50	57.68	13.27	186 03	22.33	708.3	2. Z	2, 4, 4, 4, 4, 4, 4, 4, 4, 4, 4, 4, 4, 4,	1177.0	5000072	10.43	277.5	207.5	9.4.0 7.0	22.26	96.64	20.2	9. 6	08.7	30.05	- 10
SEF-04_ap_1	396290	1206.5	105.32	51.03	9.72	156.72	19.40	343.1	4.32	184.1	851.7	565173	0.85	175.3	161.3	88.2	19.34	48.30	5.58	0.61	2.51	33.67	68.2
SFF-04_ap_10	396972	793.7	66.02	30.01	9.05	106.81	11.89	209.3	2.11	158.6	563.9	565643	2.10	119.0	113.9	73.5	12.78	8.68	3.39	0.12	1.83	16.86	79.5
SEF-04 ap 12	395350	1716.1	86.94	40.20	10.30	148.22	15.83	633.8	3.67	194.2	919.6	564701	5.38	217.4	160.2	104.7	16.78	117.75	4.30	4.55	7.83	25.62	510.9
SEF-04_ap_13	394981	2222.6	113.29	55.25	15.15	174.54	20.72	843.9	4.45	227.4	1092.2	564338	2.03	265.9	191.3	130.8	21.13	79.99	6.42	3.89	11.09	34.46	162.2
	*All elements are in ppm	ents a	re in 1	ppm.																			

Appendix C: Eastern Sunda arc apatite trace element chemistry (LA-ICP-MS)

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Analysis ID	Ca	Ce	Dy	Er	Eu	PS	Но	La	Lu	Na	PN	٥	Pb P	Pr Sm	S	Tb	T	Tm	Π	^	Yb	Fe
SEF-04_ap_14	397716	384.8	32.78	14.79	5.84	53.83	5.98	115.5	1.37	88.9	260.6	266070	1.34			75.7	3.21		90 09	1.51	8.75	41.7
SEF-04_ap_16	395643	1789.5	110.58	52.47	12.81	166.72	20.67	9.969	5.23	194.9	1003.9	564712	1.70	,	_	78.7	7.52 64	1.35 6.28	28 1.4	8 4.05	36.95	57.1
SEF-04_ap_17	395711	1715.7	111.48	49.68	12.80	173.50	20.39	592.3	4.32	214.5	949.3	564793	7 96.0								31.33	6.03
SEF-04_ap_18	395681	1150.9	91.91	42.37	12.58	140.21	16.80	330.1	3.50	191.3	759.0	565149									25.02	980.5
SEF-04_ap_19	395873	1584.7	105.66	51.45	10.68	159.44	19.30	505.7	4.81	212.0	929.2	564908	2.36 2	211.5	175.1	87.8	19.43 37	7.79 6.12			33.17	57.0
SEF-04_ap_2	393363	883.0	79.58	35.96	10.05	123.02	13.65	242.6	3.01	251.7	623.1	564893									21.00	4021.9
SEF-04_ap_20	394052	2707.2	176.68	85.39	20.68	253.47	32.89	1047.0	7.54	369.2	1428.0	563826	.,	_					05 5.87		55.57	76.4
SEF-04_ap_21	396240	1229.4	29.67	42.61	16.75	142.22	16.70	379.5	3.80	268.3	764.7	565263							_		27.55	53.4
SEF-04_ap_23	393614	2931.1	190.12	93.79	20.75	261.36	35.53	1172.6	8.64	469.0	1493.1	m	.,								64.18	76.5
SEF-04_ap_24	395926	1069.5	79.95	37.13	12.28	128.83	14.79	316.6	2.93	428.3	9.779			149.2			•		•		21.65	183.7
SEF-04_ap_25	394684	2381.7	163.81	77.90	16.72	247.23	30.00	838.1	6.78	259.6	1320.1	564 105	.,								49.98	45.7
SEF-04_ap_26	396120	1392.8	94.02	45.30	10.63	152.43	17.62	430.2	4.23	231.2	847.8										29.50	42.0
SEF-04_ap_27	395233	1929.3	139.66	90'29	10.78	203.80	26.36	662.8	9.00	260.0	1120.5										44.88	81.3
SEF-04_ap_28	391961	2960.7	175.89	85.42	24.65	246.31	32.65	1183.9	8.25	1137.5	1427.4	_									60.46	843.5
SEF-04_ap_4	393816	2761.7	178.72	86.04	22.44	255.35	33.37	1059.5	99.7	407.2	1385.4	563789									27.67	226.2
SEF-04_ap_5	395374	1953.5	95.80	45.04	14.48	147.56	17.28	740.3	4.29	275.8	994.3	_									29.61	1.99
SEF-04 ap 6	391332	3030.2	191.17	94.22	26.19	269.40	34.72	1221.6	8.19	1129.0	1581.9	<b>~</b>									69.09	1339.1
SEF-04_ap_7	395274	1700.5	167.85	82.72	14.47	234.63	31.16	540.6	6.88	333.6	1146.6	~									48.86	6.77
SEF-04_ap_8	394330	2421.7	186.09	87.93	17.46	266.50	34.54	897.4	97.9	424.0	1315.7										51.12	63.0
SEF-04_ap_9	395144	2077.7	137.67	98.69	14.38	201.98	26.21	715.8	7.23	250.3	1132.4	564425									51.08	49.4
SING-01_ap_1	396117	920.8	83.75	39.79	14.45	123.71	15.49	308.8	3.45	258.4	641.7										25.48	182.3
SING-01 ap 2	396349	820.1	63.06	28.54	14.62	101.61	11.32	275.5	2.16	217.8	574.0										16.57	162.7
SING-01 ap 3	389437	602.9	44.70	21.88	10.63	72.44	8.58	207.1	1.49	4780.6	413.0										11.06	1077.1
SING-01 ap 4	396639	456.0	89.71	44.16	17.27	115.04	16.33	116.3	3.64	204.9	421.0										28.15	430.7
SING-01_ap_5	396341	937.3	82.08	39.82	12.06	134.41	14.94	272.1	2.99	181.6	727.0										23.55	138.8
SING-02_ap_1	395873	274.9	90.81	52.12	17.73	90.35	17.51	95.3	6.39	9.985	237.6										43.48	754.3
SING-02_ap_10	395120	481.8	157.31	78.74	35.40	177.68	29.01	123.6	8.63	9.987	495.6					465.8 26					64.72	995.4
SING-02_ap_11	395686	456.0	103.99	65.55	26.24	93.68	20.59	168.4	9.07	577.3	322.0										29.62	7.57.7
SING-02_ap_12	395671	351.5	176.03	100.67	26.66	177.01	35.47	90.3	11.33	413.7	388.5										83.72	1178.2
SING-02_ap_13	395114	495.2	142.84	86.37	36.48	134.40	27.32	159.8	11.72	478.0	435.9										78.53	1387.5
SING-02_ap_14	395867	354.5	59.29	29.88	27.31	64.62	10.66	134.4	3.53	352.1	239.5										26.69	1233.0
SING-02_ap_15	394610	359.8	44.38	27.16	15.50	44.30	9.05	163.1	4.37	987.2	203.3				•						28.73	1256.6
SING-02_ap_16	394412	384.3	97.54	26.87	25.02	96.74	19.21	144.6	7.19	9.579	286.0										52.32	2108.6
SING-02_ap_17	395170	563.2	158.72	74.32	46.35	208.24	28.21	145.0	8.13	543.3	622.7										58.13	1049.1
SING-02_ap_18	394452	320.7	72.44	48.28	22.83	66.02	15.56	115.9	7.61	1224.4	212.6										50.32	1342.4
SING-02_ap_2	395485	443.9	61.11	33.47	23.20	67.50	11.75	173.8	3.82	601.1	280.1										27.43	1078.3
SING-02_ap_3	395175	304.4	105.32	64.93	23.96	99.60	22.30	107.0	8.78	1071.2	250.3										63.78	639.6
SING-02_ap_4	392426	484.6	1221.07	1028.30	71.04	648.46	304.55	158.9	154.75	1073.7	461.7	563841	0.72	79.7		466.0 146	146.94 179	9.97 153.51	51 23.62		1095.74	0.269
SING-02_ap_5	395320	537.9	170.63	96.92	38.35	162.20	33.98	188.1	11.32	9.902	434.2										86.18	746.2
SING-02_ap_6	396549	291.9	96.02	43.59	24.05	125.25	16.96	83.2	4.45	344.6	326.1										32.49	519.6
SING-02_ap_7	395439	364.4	169.66	128.78	39.12	125.98	38.98	127.7	20.53	461.5	271.5	565554									139.83	1165.4
SING-02_ap_8	395423	440.3	139.75	81.05	30.28	139.60	28.29	127.7	10.08	423.9	394.9	_									72.41	1160.2
SING-02_ap_9	395101	264.1	149.24	98.78	16.09	133.13	31.21	78.9	13.65	1283.3	269.3	_									95.53	270.0
SLG-03_ap_1	392992	9.0	21.61	18.25	0.50	8.72	5.56	0.1	1.33	245.2	1.3	_	0.21	0.1							11.22	6057.4
SLG-03_ap_2	397815	21.7	32.66	22.37	1.83	19.82	7.73	9.1	1.41	171.1	17.6	0	0.43								13.12	348.8
SLG-03_ap_3	395272	9.6	10.56	5.71	1.01	9.75	2.03	2.4	0.44	97.6	8.0	566172	0.23			85.2	1.54 (				3.03	2888.4
SLG-03_ap_4	388672	4.1	31.18	24.85	0.61	15.27	7.71	1.2	2.08	356.4	4.7	564741	0.42			72.9	3.47 (				16.58	11009.4
SLG-03_ap_6	395683	266.5	19.08	6.39	8.17	34.84	2.80	105.9	0.40	205.1	158.1	565843	0.61	34.9		76.6	3.91 25	3.76 0.6	63 0.47		3.59	2450.3
SLG-03_ap_7	392119	1.9	13.81	6.48	1.09	11.16	2.55	0.3	0.26	230.6	4.7	565358	0.36	0.5	3.7	64.7	2.18 (	0.07 0.5	52 0.0	31.96	2.42	7142.8
SLG-03_ap_8	397585	2.3	5.31	4.34	0.77	4.47	1.37	0.8	0.48	187.6	2.7	566411	6.77	9.0	9.1	84.1	) 62.0	3.85 0.5	51 0.1	1 9.06	3.37	6.089
	*All elements are in ppm.	ents an	re in p	om.																		

Appendix C: Eastern Sunda arc apatite trace element chemistry (LA-ICP-MS)

Analysis ID	Ca	Ce	Dy	шī	E	P5	운	La		Na	P	Ь	Pb	P.	Sm	رة ا	Tb	Th	Tm		>	Αp	Fe
SLG-03 ap 9	380632	37.5	42.44	29.36	2.70	21.52	96.6	17.2	2.29	476.4	23.9	563182	1.76	4.5	9.2	156.4	5.11	4.24	3.63	0.35	123.94	19.16	20193.1
TR-01_ap_1	395271	432.6	123.85	60.62	21.79	163.51	23.22	133.3	4.74	426.6	437.9	565564	1.26		126.9	359.4	21.78	2.04	6.81	0.65	33.66	36.11	1671.4
TR-01_ap_10	394356	356.7	107.29	52.04	19.46	134.83	20.17	109.2	4.38	503.2	370.3	565514	0.47	62.8	109.9	395.7	18.09	1.81	6.07	0.60	33.31	32.96	2789.8
TR-01_ap_11	395745	391.0	102.31	49.67	19.76	136.28	19.14	124.3	4.03	640.5	387.6	565893	1.04	8.99	109.0	281.6	17.94	1.58	5.46	0.49	41.64	29.32	931.9
TR-01_ap_12	394919	552.4	140.97	82.69	22.29	174.31	27.20	183.2	5.93	561.0	906.0	565491	0.68	93.4	143.5	343.9	24.09	1.86	8.16	09.0	30.50	45.32	1651.0
TR-01_ap_13	394040	431.2	125.95	63.17	21.61	157.79	24.24	131.3	5.32	647.9	436.7	565476		75.5	125.1	383.1	22.01	1.87	96.9	0.63	29.80	38.92	2754.3
TR-01_ap_14	395056	627.1	142.34	99.69	21.61	174.36	26.61	211.1	00.9	6.097	544.5	565638		102.5	146.7	230.0	23.82	1.51	8.09	0.44	42.14	47.36	1117.2
TR-01_ap_15	394893	472.2	130.67	63.66	22.07	159.08	24.44	152.0	5.12	540.1	456.0	565540		77.8	126.6	379.7	21.88	<del>2</del> 8.	7.28	0.58	41.36	38.58	1844.1
TR-01_ap_16	395308	404.5	112.55	55.66	20.24	147.30	21.27	126.2	4.51	623.0	406.2	565752		9.02	117.0	354.5	19.25	1.64	6.24	0.57	43.47	33.29	1365.3
TR-01_ap_17	394013	383.5	111.44	51.81	23.59	151.13	20.75	120.6	3.80	473.1	410.9	565388			119.1	399.3	19.54	1.38	5.52	0.44	32.66	29.64	3171.6
TR-01_ap_18	393519	1256.7	293.10	142.90	20.87	349.39	56.12	399.1	11.43	908.2	1085.9	564772	•		294.1	235.5	49.48	6.61	16.44	1.69	32.00	88.93	1251.2
TR-01_ap_19	394534	400.7	121.89	59.46	20.55	153.46	22.93	124.9	4.77	630.7	416.6	565586	1.25	6.07	121.5	392.0	20.92	2.00	6.54	99.0	35.97	35.02	2236.0
TR-01_ap_2	394102	380.9	113.13	56.64	20.95	144.92	21.84	118.2	4.67	619.1	394.9	565517	0.48		115.9	397.3	19.75	1.92	6.43	0.64	39.15	34.00	2822.8
TR-01_ap_20	394403	398.2	116.53	56.61	21.09	150.85	21.84	122.5	4.51	606.4	409.3	565552			118.9	396.7	19.94	2.00	6.07	99.0	35.25	33.86	2452.9
TR-01_ap_21	395617	374.1	106.78	53.27	21.07	137.18	20.19	116.5	4.39	643.7	375.0	565870			110.0	299.4	18.32	1.64	6.04	0.49	41.93	33.70	1075.5
TR-01_ap_22	393357	455.9	129.82	64.30	20.87	168.96	24.97	141.0	5.08	639.1	461.7	565303	0.53	79.8	133.5	398.0	22.43	2.23	7.28	0.73	27.92	39.52	3516.2
TR-01 ap 23	394232	463.2	121.78	62.30	21.01	154.51	23.75	133.3	5.37	619.7	466.2	565473	0.48	81.3	124.3	394.5	20.99	2.01	6.97	0.64	32.34	40.99	2518.5
TR-01 ap 24	394074	403.8	120.08	57.82	21.69	152.33	23.00	126.3	4.75	720.9	411.7	565564			119.3	377.9	20.39	1.98	6.50	0.65	28.29	36.55	2654.3
TR-01_ap_25	395150	405.8	113.16	26.90	22.59	143.16	21.85	131.7	4.83	501.0	399.2	565634			113.4	352.6	19.45	2.02	6.48	0.67	32.49	36.16	1780.9
TR-01_ap_27	394594	387.1	116.24	58.31	22.50	151.05	22.61	121.5	4.81	505.8	401.0	565523			116.6	389.1	20.13	1.98	6.85	99.0	32.46	36.34	2417.0
TR-01 ap 28	394799	447.9	123.43	00.09	22.14	158.83	23.14	144.4	4.81	581.0	1.14	565575	0.75		127.6	351.8	20.87	1.63	6.83	0.57	33.24	37.32	1961.3
TR-01_ap_29	393711	626.7	152.41	74.94	24.86	189.81	28.71	206.3	6.22	7.17.7	576.0	565304			157.9	277.4	25.68	1.99	8.79	99.0	34.33	48.38	2718.7
TR-01_ap_3	395212	333.0	99.59	47.94	18.84	127.78	18.76	102.6	3.94	544.4	348.8	565745			100.1	382.0	17.04	1.60	5.43	0.55	33.66	29.58	1766.8
TR-01_ap_30	395263	381.9	113.08	55.86	20.62	147.06	21.80	118.3	4.62	478.3	397.4	565646			113.4	389.7	19.53	1.83	6.37	0.62	29.02	34.24	1687.6
TR-01_ap_4	395299	363.5	107.98	53.56	18.54	139.38	20.74	111.4	4.56	526.5	375.3	565717		64.2	110.0	361.4	18.48	1.92	6.07	0.65	34.11	33.59	1630.7
TR-01_ap_5	394902	404.1	113.24	55.13	21.48	145.39	21.17	130.4	4.61	478.4	399.8	265567			114.7	366.9	18.90	1.61	6.21	0.55	22.48	34.47	2119.8
TR-01_ap_6	394681	298.7	162.30	81.24	24.53	206.17	30.93	190.8	6.55	446.7	593.9	565275	,		168.2	376.0	27.78	2.44	8.95	0.78	20.51	49.22	1943.4
TR-01_ap_7	394712	439.3	117.42	58.66	19.66	143.75	22.53	142.4	5.35	0.089	413.8	565651			118.8	361.3	19.82	1.48	6.97	0.52	39.14	38.10	1931.2
TR-01_ap_8	394195	416.8	122.28	59.88	21.83	158.14	23.40	128.2	4.88	529.6	426.4	565431			126.5	394.5	20.91	2.21	6.72	0.72	30.94	37.35	2788.2
TR-02_ap_1	395931	1160.1	155.08	58.71	11.34	222.61	26.04	380.8	2.91	237.8	866.5	565034			211.7	367.9	28.83	28.35	5.39	5.17	16.72	24.96	43.5
TR-02_ap_10	395688	1077.0	170.00	74.07	11.27	217.43	30.90	374.5	4.43	340.7	782.1	565104			196.9	388.9	29.81	18.02	7.49	3.44	11.32	35.74	258.3
TR-02_ap_11	396247	928.9	119.54	44.88	9.42	175.04	20.09	317.7	2.00	270.8	686.3	565340		141.6	164.0	362.4	22.22	10.56	4.22	1.93	18.70	17.77	90.4
TR-02_ap_12	395972	1064.3	133.60	49.67	9.68	194.96	22.28	363.2	2.22	247.6	755.8	565157			183.7	400.0	24.90	12.71	4.64	3.09	15.70	19.96	199.9
TR-02_ap_13	396482	1160.4	66.81	28.42	10.02	101.31	11.40	422.8	1.99	175.6	662.5	565327		154.1	118.3	161.8	12.52	6.82	2.83	0.81	14.00	15.69	9.69
TR-02_ap_14	394540	1165.8	140.57	53.40	10.71	201.63	24.08	411.4	2.52	994.6	820.1	565332		172.9	196.0	355.0	26.66	25.59	4.95	90.9	17.72	20.66	470.6
TR-02_ap_15	394621	1187.5	98.33	37.07	12.07	163.65	15.99	375.7	2.32	197.3	854.1	564817	2.15		176.9	330.6	19.33	19.01	3.54	2.37	11.26	18.80	1852.4
TR-02_ap_17	395552	1232.0	149.76	26.67	11.66	232.38	25.91	404.6	2.84	216.8	943.8	564876			224.3	340.1	28.90	39.99	5.21	5.20	38.53	23.81	373.4
TR-02_ap_18	382860	1226.5	112.74	44.87	12.69	184.44	19.56	366.0	2.66	159.0	942.8	562384		195.2	204.6	243.8	21.94	27.50	4.54	4.16	54.05	23.44	15863.0
TR-02_ap_19	396176	994.2	127.67	49.10	9.80	181.39	21.69	337.7	2.32	287.9	717.9	565285		148.7	173.2	346.3	23.69	23.43	4.60	4.10	13.16	22.12	45.4
TR-02_ap_20	392372	1330.9	69.85	28.78	10.23	114.82	12.18	466.1	1.83	183.2	795.4	564392		176.9	132.9	156.7	12.80	11.02	2.94	1.05	23.75	15.16	4686.0
TR-02_ap_22	395986	1010.2	136.71	54.89	10.39	188.53	23.68	340.9	2.91	365.4	743.3	565280		154.2	172.1	353.8	24.58	19.12	5.17	121	5.85	24.57	91.9
TR-02_ap_23	395975	1078.5	153.12	58.65	10.17	217.69	25.64	352.7	2.94	278.3	821.4	565139		170.0	203.6	335.2	28.43	16.63	5.41	2.74	32.62	26.05	63.8
TR-02_ap_24	396186	1077.1	148.75	59.62	12.90	204.37	26.36	362.4	2.87	200.4	772.9	565155		161.5	185.7	278.2	26.70	24.86	5.49	7.54	8.02	24.25	65.5
TR-02_ap_25	391947	1287.0	69.77	28.20	9.31	116.68	11.85	432.6	1.76	200.5	0'.292	564355		179.0	135.2	139.3	13.31	11.23	2.90	0.88	29.11	14.32	5246.0
TR-02_ap_3	395882	1194.6	134.87	54.49	10.32	199.97	23.51	397.1	3.16	269.5	852.8	565056		179.1	188.9	406.1	25.16	21.05	5.26	4.25	7.79	25.39	55.1
TR-02_ap_4	396117	923.6	187.59	83.69	11.13	225.02	34.01	306.2	4.94	296.2	713.2	565256		141.2	190.8	324.5	31.69	12.58	8.82	4.92	17.90	42.47	64.1
TR-02_ap_5	396700	901.7	109.31	45.23	8.16	173.93	19.18	249.1	2.90	113.5	747.8	565353		148.4	167.7	116.0	21.04	59.71	4.58	3.27	5.54	21.76	28.3
TR-02_ap_6	392092	1895.1	146.19	62.90	16.60	231.12	26.53	0.099	3.71	229.7	1188.7	564428	.,	266.2	237.6	265.7	27.74	39.56	6.41	8.46	14.07	29.12	119.9
TR-02_ap_7	395802	1179.6	133.43	53.08	12.87	198.76	23.01	382.3	2.94	342.3	873.1	565115		180.8	197.8	289.3	25.24	21.78	5.16	3.50	11.61	24.11	119.8
TR-02_ap_8	395846	1177.6	116.49	44.26	11.69	177.18	19.50	390.0	2.88	341.1	849.1	565137	7.15	178.6	186.1	370.5	22.47	13.90	4.41	2.49	23.74	21.99	48.8
<b>7</b> *	*All elements are in ppm.	ents a	re in l	mdc.																			

Appendix C: Eastern Sunda arc apatite trace element chemistry (LA-ICP-MS)

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Alialysis ID	Ca	3	رن د اور		200	3	25	2	3	-			- 2	2	<u> </u>	-	-	- 5	-	> .	000		5
TR-02_ap_9	395284	1322.4	187.41	125.75	13.24	204.40	32.19	419.5	16.57	204.3 1569.6	1022.0	564717	1.9.1	98.4	158.1	327.3	34.40	31.18	12.7	5.48 8.48	79.80	34.56	529.9 4608.4
TP-03_ap_1 TP-03_ap_2	392729	761.5	199.30	117.72	26.09	203.59	38.03	235.8	14.11	1318.1		565345	•	,			30.69	10.43	15.22	2.83			2409.5
TR-03_ap_2	391671	684.5	185.96	108.32	28.81	190.95	37.17	207.2	11.66	1567.6	625.1	565387	1.61	•			29.21	8.57	13.46	4.65	0.00		3390.9
TR-03 ap 4	391491	731.6	212.98	123.16	23.36	218.45	42.97	230.6	14.89	1232.3	631.0	565052			_		33.06	11.94	16.43	4.91			4066.0
_ ' _ TR-03 ap 5	390526	723.1	223.05	121.94	25.64	240.43	43.95	228.2	12.77	1522.9	6.699	565029					36.02	6.05	15.17	5.23			4602.3
 TR-03_ap_6	389955	588.9	218.81	138.22	28.58	200.10	45.68	176.3	20.01	2299.7	563.7	565588	•	·			32.42	12.73	19.27	6.40			4244.8
TR-03_ap_7	391898	555.4	207.85	122.24	26.46	208.37	41.74	162.5	14.37	1952.3	565.6	265767					32.70	7.70	16.10	4.14	•	(4	2617.9
TR-04_ap_1	395101	995.5	293.77	186.03	27.70	257.74	59.59	355.1	20.47	791.0	722.5						41.46	48.59	24.23	2.91			149.7
TR-04_ap_10	394235	937.7	355.65	239.96	30.43	290.95	76.41	290.6	32.41	1305.4	725.6		14.42				49.91	51.60	34.64	0.79			92.6
TR-04_ap_11	394728	610.6	321.58	212.77	21.45	260.63	68.99	197.4	23.03	652.2	521.8						44.31	38.09	27.89	1.65		_	1339.5
TR-04_ap_12	396080	497.3	344.07	230.32	14.11	270.31	74.96	143.2	25.32	476.7		565472		82.9				50.30	29.67	1.67			165.5
TR-04_ap_13	395611	6.689	247.08	171.48	26.26	204.41	54.25	236.6	23.01	704.8		565494	2.20				•	109.52	23.85	2.54			149.7
TR-04_ap_14	397228	226.8	102.33	26.00	11.64	122.84	20.22	20.0	4.00	326.3		566102					16.90	4.41	6.03	90.0			108.4
TR-04_ap_15	396027	549.4	284.05	185.49	15.88	227.85	29.98	156.8	21.22	551.6		565563					39.47	27.34	25.62	1.33			183.5
TR-04_ap_2	396298	740.6	185.96	108.72	20.21	170.38	36.85	257.2	12.98	393.1		565520					27.26	12.24	15.24	<del>1</del> .		99.70	121.0
TR-04_ap_3	395230	9.789	320.08	234.87	15.71	293.60	74.18	178.5	29.62	806.2		565357					48.57	68.67	32.07	1.07		206.24	209.1
TR-04_ap_5	394285	1126.7	312.97	198.02	40.52	279.14	62.70	389.6	23.36	720.0		564876					45.48	42.00	26.77	5.49			901.9
TR-04_ap_6	395522	927.2	250.32	153.39	32.07	217.84	50.09	343.7	18.31	641.4		565325	3.40				36.45	26.92	21.67	3.03		136.17	135.8
TR-04_ap_7	395466	787.8	255.13	158.84	23.55	225.56	52.08	242.6	19.24	703.2		565432					36.99	20.88	22.07	£.			277.6
TR-04_ap_8	395830	419.7	226.37	141.00	18.69	201.34		121.7	15.47	637.4	417.7	565740		68.4			31.90	20.32	19.03	0.92	4.03		579.2
TR-04_ap_9	393170	8.996	295.52	200.87	35.57	241.26	62.47	340.9	24.54	2161.3	675.6	565861					40.75	26.91	27.93	2.85		177.76	138.1
TR-05_ap_1	395289	787.1	197.64	126.80	23.01	189.60	41.94	271.7	18.00	931.1		565610					29.89	64.55	17.82				166.8
TR-05_ap_10	396174	1124.8	118.42	61.96	24.48	144.90	22.48	420.6	97.9	279.6		565270					20.43	11.39	8.13				127.1
TR-05_ap_11	395663	857.7	170.13	81.50	15.97	202.30	31.44	306.2	6.97	690.5		565523					28.11	28.64	9.51				119.5
TR-05_ap_12	394040	698.1	206.41	115.64	9.34	206.94	41.22	201.3	11.85	340.4		565011					32.13	46.46	14.81				876.2
TR-05_ap_13	397002	314.5	143.45	78.51	6.08	147.94	28.22	78.6	6.89	346.1		565968					22.55	15.63	9.35				143.4
TR-05_ap_14	396641	570.7	126.18	66.73	10.10	142.86	24.53	183.9	6.16	232.0		565680					20.28	22.64	8.26				455.3
TR-05_ap_15	396520	584.5	175.78	88.66	7.11	192.26	33.48	156.3	8.21	237.2	552.6	565551	0.23				28.78	24.08	10.85				359.2
TR-05_ap_16	395643	734.0	159.57	91.44	18.42	163.59	32.10	246.4	10.08	855.8		565737				228.4	25.19	67.84	11.69			70.57	110.9
TR-05_ap_18	394465	903.1	97.81	48.48	25.63	127.99	17.79	350.3	5.05	784.4		565415					16.58	6.95	98.9				469.1
TR-05_ap_19	394135	1212.3	166.86	95.85	28.48	177.67	33.42	467.9	11.65	929.0	727.3	565167		160.9			26.79	32.12	12.98	4.52			1011.8
TR-05_ap_2	396583	756.6	132.31	73.43	13.23	154.36	25.80	245.3	8.26	240.5	572.7	565525					21.66	13.28	9.90				180.1
TR-05_ap_20	394852	391.1	167.96	90.03	5.13	187.49	33.05	100.8	8.66	321.9	442.0	565415					27.51	25.35	10.90	0.43		63.43 2	529.2
TR-05_ap_21	396601	602.1	145.57	74.02	6.48	172.17	27.90	171.6	6.42	377.9	522.3	565705		97.3			23.95	18.25	8.77				91.4
TR-05_ap_22	396727	381.9	141.89	81.22	7.62	143.01	29.18	120.9	8.21	492.9	336.8	565978					22.27	24.54	68.6	1.00	3.85	59.26	119.8
TR-05_ap_23	395938	795.0	201.48	105.09	16.07	218.47	38.41	246.8	9.57	542.8	636.0	565492					33.17	20.20	12.79				154.8
TR-05_ap_24	396184	398.5	191.50	118.28	9.91	180.65	40.57	112.2	13.23	720.2	392.3	565919		•			29.32	91.55	15.28				154.9
TR-05_ap_25	395691	931.9	212.82	123.35	18.38	211.81	42.82	308.8	23.8	527.0	686.1	565323		•			32.88	28.37	16.38	2.46			240.7
TR-05_ap_26	39202	5.55.5	90.49	00.121	0.40	99	90.14	8.72	15.57	7.33.7	401.0	2000012	`				28.88	92.21	15.01				- 45
TR-05_ap_27	390600	6/3./	751.67	82.33	8.33	765.03	729.21	195.9	.82	312.6	5040.7	565614	0.25	105.1	143.7	2. L41.5	24.30	20.75	10.05	0.73	8.08	59.33	104.7
TR-05_ap_28	396097	0.709	141.47	74 13	ξ α ξ α	160.81	27.24	27.00	2 2 2	627.1	465.1	565766					23.64	16.20	0 10	200		95.95	172.4
TP 06 38 29	392027	453.6	199.34	118.63	14.78	197.50	40.80	123.4	12.32	3275.2	444.7	566889	0.41	•			30.92	82.33	15.14	6.0			636.3
TR-05 ap 30	396133	625.6	198.28	119.53	17.24	190.47	40.32	187.4	13.80	518.6	537.3	565610	•		_		30.52	45.36	16.08	1.46			199.7
TR-05 an 4	394260	704.1	179.85	96.45	9.65	196.81	34.93	219.6	9.08	1837.9	569.9	566180	,	•			28.97	32.66	11.87	1.53		66.82	140.4
TR-05 ap 5	396722	372.9	108.09	57.34	4.89	127.00	21.31	93.8	5.42	559.8	373.8	566069		·			18.07	13.84	6.82	0:30	4.38	39.93	105.6
TR-05 ap 6	392905	1153.1	241.03	136.60	30.36	243.96	47.49	403.2	15.63	1160.7	822.7	265007	0.62	170.5	215.8 2	281.5	37.67	31.56	18.37	3.01			944.6
TR-05_ap_7	393803	811.7	153.76	86.23	17.85	164.35	30.90	267.7	9.58	324.4	575.7	564980	•	119.9	149.6 1		24.49	20.44	11.33	1.67	13.90	.,	3243.3
TR-05_ap_8	396217	629.6	182.03	99.61	16.04	189.74	35.78	199.3	9.82	527.8	504.1	265660	0.34	97.8	148.0 1	190.2	28.72	50.48	12.39	1.48	8.11	73.96	116.7
	*All elements are in ppm.	ents a	re in p	pm.																			

Appendix C: Eastern Sunda arc apatite trace element chemistry (LA-ICP-MS)

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Analysis ID	Ca	Š	Ωλ	ת	En .	3	유	га	2	Na	B	<b>a</b>	g.							>			Ф
TR-05_ap_9	396272	983.3	110.90	57.23	20.44	136.93	20.98	362.8	5.95	291.0	631.1	565396	0.65	136.4	137.7	133.4	19.22	9.04	7.51		13.81	44.56	205.0
BHF-02_ap1	394351	1218.5	194.47	106.28	25.78	222.13	37.74	3/0.1	12.47	802.9	938.6	565021	0.58	186.5	220.2	345.1	32.94	42.47	13.77	6.88	5.83	85.68	/55./
BHF-02_ap10	394663	1594.5	223.43	127.02	22.93	258.20	43.12	527.7	14.44	527.0	1112.5	564597	0.65	226.8	249.9	363.8	36.71	51.89	16.73	11.45	1.11	102.34	1.12.
BHF-02_ap11	304196	0. /841	262.19	161.33	24.55	250.95	41./4	7.100	14.8	43620	1015.5	564530	\$ <del>5</del>	413.4	232.3	2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1	30.19	90.04	24.47	0.37			7406
BHF-02_ap12 BHF 03_ap13	395600	840.0	218.58	125.64	22.07	221.59	42.65	231.9	14.71	499.7	741.5	565271	0.14	139.3	200.3	357.0	34.95	18.78	16.74	5.46			292.2
BHF-02_ap13	394615	926.3	69.41	33.21	24.01	104.88	12.89	343.2	3.38	699.3	619.2	565362	0.64	129.5	117.2	583.1	12.95	3.90	4.04	1.28		24.20	1296.5
BHF-02 ap15	391193	2045.2	297.30	182.64	31.68	311.10	60.11	9.669	24.40	1773.8	1300.0	564414	0.88	272.6	319.2	390.0	46.40	64.43	25.72	15.62			340.8
BHF-02_ap16	393668	1660.6	240.82	143.33	30.95	247.40	47.28	581.0	20.38	819.2	1088.1	564528	0.79	234.3	247.9	437.9	37.87	83.95	20.37			134.56	715.2
BHF-02_ap17	393799	1810.4	262.52	162.36	34.41	267.50	52.47	592.9	25.01	584.0	1201.5	564242	0.71	259.9	271.0	387.0	41.77	127.23	23.53				683.0
BHF-02_ap18	392940	1677.4	224.49	127.84	28.65	242.20	43.93	576.1	16.63	1194.8	1109.4	564681	0.37	235.6	244.8	442.4	36.10	55.35	17.75	7.63			977.2
BHF-02_ap2	394442	1336.9	241.99	142.97	27.26	245.63	48.65	447.3	18.40	721.9	6.656	564784	1.81	198.7	233.2	354.3	38.66	184.46	19.44				405.2
BHF-02_ap21	393738	9.086	191.10	119.20	31.63	175.68	39.07	321.6	18.74	1105.3	692.9	565272	0.56	144.3	169.5	473.4	28.99	90.69	17.41		2.90		289.8
BHF-02_ap22	396489	702.1	169.19	94.83	15.68	199.75	32.77	173.9	6.30	264.1	716.8	565447	0.19	124.8	186.4	184.1	28.17	17.10	12.17				71.3
BHF-02_ap23	393802	1340.2	206.90	117.46	27.32	220.97	40.07	439.4	16.84	892.2	937.4	564885	4.3	196.6	218.6	387.1	33.25	44.49	16.44				056.5
BHF-02_ap24	394178	1394.1	245.65	140.68	32.17	261.62	47.99	445.4	17.48	810.3	1037.4	564783	0.38	210.2	249.5	303.3	39.34	102.94	19.08				542.1
BHF-02_ap25	394789	1384.8	265.98	154.47	31.98	286.34	52.37	413.6	21.82	559.2	1083.0	564703	0.58	212.7	268.0	285.3	42.44	64.58	22.01				200.4
BHF-02_ap27	393783	1625.8	239.21	130.40	26.47	284.53	45.92	541.3	14.53	9.006	1201.9	564614	99.0	241.7	278.8	375.5	40.24	62.72	16.40				453.6
BHF-02_ap28	395850	745.3	208.22	129.38	22.31	192.68	43.04	209.9	16.94	503.3	641.9	565408	0.32	121.3	168.1	299.6	31.06	51.28	18.01				209.9
BHF-02_ap29	394800	1270.5	249.97	141.79	26.05	265.98	49.19	382.1	16.75	578.8	9.866	564827	0.37	197.6	250.9	336.3	40.42	54.92	18.90				365.9
BHF-02_ap3	395137	1137.0	203.09	115.01	23.10	220.39	39.44	367.3	14.85	584.0	868.7	565063	0.54	170.7	211.0	337.9	32.82	37.33	15.94				307.0
BHF-02_ap30	394001	1537.1	255.39	139.20	31.12	280.15	48.44	492.5	15.90	763.1	1142.2	564602	0.45	229.7	271.9	385.5	41.73	74.88	18.54				542.0
BHF-02_ap31	395986	535.0	185.65	112.87	19.85	180.86	38.01	133.6	13.69	759.0	538.8	565808	0.72	93.6	155.6	188.7	29.05	37.07	15.29	1.46			69.4
BHF-02_ap32	394545	1329.4	348.44	228.84	29.86	321.56	72.89	423.5	32.40	578.8	1003.8	564590	0.71	201.8	260.8	329.0	52.10	71.26	32.10				273.3
BHF-02_ap33	393300	2134.3	244.93	140.73	37.73	274.47	47.92	732.6	19.88	733.4	1326.7	564110	0.44	288.5	288.6	335.2	40.63	81.03	19.92				702.2
BHF-02_ap4	394559	1587.4	227.19	135.71	28.26	234.16	45.53	559.2	19.20	546.0	1042.7	564606	0.49	222.1	234.5	328.4	35.20	59.53	19.42				371.1
BHF-02_ap5	393259	2141.2	301.29	182.82	34.46	311.66	60.80	756.9	24.42	796.4	1382.8	564016	1.20	295.0	306.4	345.3	46.86	146.64	25.98		9.60		370.5
BHF-02_ap6	393533	1352.6	261.70	162.73	31.24	262.16	53.61	433.4	24.67	880.8	1005.7	564695	0.45	202.1	243.0	384.9	41.11	95.49	23.69				142.4
BHF-02_ap7	394150	1609.4	214.03	117.49	26.41	241.89	41.03	517.0	13.73	776.8	1112.0	564692	1.1	231.4	238.5	358.5	35.15	51.16	15.94				440.9
BHF-02_ap8	392494	1769.1	240.91	132.18	27.45	280.81	45.59	596.2	14.60	1234.7	1260.8	564514	0.46	259.4	278.7	436.3	40.20	36.65	17.10	7.77			200.3
BHF-02_ap9	394076	1819.5	273.16	151.50	35.16	289.02	53.01	586.1	20.50	584.2	1257.2	564305	1.30	257.9	284.4	328.1	44.12	78.47	21.86				376.3
BHF-03_ap10	393176	1128.0	259.36	201.58	21.65	171.35	58.48	386.8	34.16	1222.5	734.5	565065	1.29	153.7	158.1	0.809	33.73	5.69	31.97				305.8
BHF-03_ap11	393980	691.6	152.44	89.87	38.15	152.47	29.75	205.5	13.10	421.4	537.0	565089	0.37	108.2	143.9	443.2	24.74	10.65	13.02				762.0
BHF-03_ap13	395885	1113.5	171.36	89.28	19.33	214.79	31.98	309.2	10.36	367.1	885.4	565156	0.70	176.5	213.9	119.8	29.63	27.45	11.26				98.6
BHF-03_ap14	394517	1355.7	230.13	137.21	23.50	242.14	46.03	431.4	17.89	759.1	970.1	564905	0.71	205.3	238.1	314.0	37.62	10.92	18.73				400.9
BHF-03_ap15	394507	1589.3	292.22	157.43	25.41	348.28	54.85	419.2	17.24	647.6	1329.9	564559	0.24	257.4	343.6	151.9	48.65	11.32	19.64			121.72	91.1
BHF-03_ap16	393987	1637.3	272.22	147.28	27.38	318.16	51.14	484.2	18.21	665.7	1316.4	564455	0.35	260.8	319.0	206.7	45.39	8.96	20.02	5.10			622.1
BHF-03_ap17	396499	464.1	147.49	67.63	23.32	202.25	25.30	91.4	5.78	410.7	580.6	565739	0.55	93.1	188.7	140.8	27.84	1.33	8.16	1.19	0.49		235.2
BHF-03_ap18	393586	1090.8	232.80	175.18	20.27	146.64	53.19	373.3	28.20	1218.8	737.8	565212	0.77	154.2	142.9	582.9	28.35	6.49	27.09	13.09			973.5
BHF-03_ap19	397407	333.4	69.50	39.04	4.59	80.53	14.02	99.7	4.89	231.7	276.5	566073	0.42	53.1	71.2	88.8	£ :	10.05	5.12	2.14			88.1
BHF-03_ap2	395139	1084.8	292.69	166.11	19.06	325.27	57.41	277.0	20.70	476.2	1045.5	564863	0.40	189.0	296.7	184. 1.	49.01	22.53	22.64	12.79	2.49		310.9
BHF-03_ap20	393716	1629.7	260.44	141.79	28.76	311.53	20.06	516.7	17.14	977.9	1272.5	564639	2.75	250.2	302.0	259.5	44.46	13.69	19.12	11.06			410.2
BHF-03_ap21	391095	3340.1	369.91	201.97	27.64	427.63	69.78	1205.4	23.56	1021.8	2017.4	562948	1.43	447.3	441.4	326.1	61.67	15.85	26.88	12.09			748.3
BHF-03_ap22	388173	2009.0	327.24	203.44	31.85	327.23	66.61	0.799	30.90	1627.6	1312.9	563710	1.19	282.2	312.0	346.7	50.89	18.01	29.56	7.65			252.6
BHF-03_ap23	394856	1623.9	176.64	93.80	10.96	231.67	32.95	507.4	10.01	456.8	1159.3	564637	0.49	239.5	244.0	377.6	31.82	16.86	11.95	5.18	4.05	72.11	200.1
BHF-03_ap24	394455	1141.4	204.74	110.36	17.60	232.90	38.60	354.9	12.70	801.8	889.6	565107	3.59	178.6	220.8	220.5	34.31	9.59	14.57	9.74		96.06	841.9
BHF-03_ap3	395806	831.0	239.42	127.63	22.72	274.77	46.96	192.0	13.82	477.8	863.1	565270	0.17	149.7	254.1	151.9	39.27	2.81	17.24	1.55	1.83	101.95	114.5
BHF-03_ap4	395129	1540.5	185.44	104.76	21.78	212.15	35.84	539.8	13.58	432.7	986.8	564762	0.60	213.2	217.5	280.3	30.62	13.80	14.58	10.06	3.72	92.15	158.1
BHF-03_ap5	392329	1994.5	259.85	135.52	29.74	308.14	48.27	630.0	17.79	8.1211	8.124	564247	0.27	292.4	317.3	182.4	43.49	86.78	17.90	35.81	8.98	19.21	3/1.8
BHF-03_ap6	392005	1643.4	127.40	72.02	25.94	169.72	24.35	604.7	12.30	829.0	388.2	564447	3.01	223.9	194.2	336.4	22.74	α. 50.Σ	10.66	6.70	67.7	/6.3/	5118.3
ĸ T	*All elements are in ppm.	ents a	re in p	pm.																			

Appendix C: Eastern Sunda arc apatite trace element chemistry (LA-ICP-MS)

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Analysis ID	Ca	Ce	Dy	Er	Eu	Gd	Но	La	Lu				Pb Pr	Sm	S	_	F	卢	_	>	Yb	Fe
BHF-03_ap7	394747	1488.5	312.33	174.80	35.32	332.48	59.69	462.1	22.99	477.5	1152.7		•••			188.7 51		58.32 23.98		5.45	155.15	174.7
BHF-03_ap8	396035	700.4	197.42	88.14	32.71	271.81	34.11	144.4	8.48	428.4	883.3	_								0.86	80.09	132.5
BHF-03_ap9	395946	6.608	233.98	103.73	30.40	296.16	40.35	153.2	9.54	417.1	918.4	_								0.89	72.23	46.3
GBF-03_ap10	396293	352.0	152.05	54.91	39.99	208.95	24.19	80.7	4.25	356.6	504.3									2.85	34.12	722.6
GBF-03_ap11	396786	262.1	103.31	44.21	34.43	142.37	18.03	61.3	3.74	318.4	315.0	565976		51.5	116.2	107.8 19		0.28 4.8	7 0.12	4.5 4.0	28.69	602.6
GBF-03_ap12	396842	275.1	127.95	48.71	33.51	187.42	20.41	51.2	3.49	299.0	410.7	<b>~</b>								1.21	28.50	416.5
GBF-03_ap13	396516	319.4	151.78	58.48	42.21	196.22	25.33	62.6	4.56	314.2	471.2	_								2.07	35.86	635.2
GBF-03_ap3	396047	300.9	127.81	51.70	34.18	161.13	20.51	9.77	4.88	394.6	372.3	_								1.57	36.44	1192.9
GBF-03_ap4	396070	428.3	156.07	27.97	49.15	227.74	24.56	97.1	4.49	422.5	586.0	565645								2.08	35.26	710.8
GBF-03_ap6	395814	296.4	98.85	32.86	37.25	147.81	14.90	72.6	1.99	345.3	395.7	٥.								1.26	16.19	1595.0
GBF-03_ap8	396856	259.6	133.28	50.23	34.87	185.77	21.88	48.8	3.81	284.9	404.2									1.05	29.37	437.9
GBF-03_ap9	392004	1057.0	285.75	97.90	131.73	464.84	43.44	338.5	6.53	958.2	1232.8			•						7.13	54.10	2926.4
JEM-01 ap1	368558	439.9	158.11	73.77	49.54	193.54	28.47	138.4	6.17	18239.9	451.1									<0.330	47.02	2978.3
JEM-01_ap3	388854	299.2	104.33	39.63	48.00	160.58	16.70	99.3	3.92	1919.9	296.6	565498								6.42	26.15	7182.6
JEM-01_ap4	393728	406.0	190.67	107.95	41.91	188.91	32.70	146.5	10.15	701.3	341.3									<0.840	67.73	3078.3
JEM-01_ap5	390391	1079.0	330.24	183.01	54.23	322.60	67.63	417.2	16.42	1023.7	753.1									<0.428	125.69	5102.7
JEM-01 ap6	395261	405.1	191.23	82.57	44.55	231.32	34.12	139.2	5.01	381.8	363.7									<0.474	41.74	1821.5
JER-01 ap1	394072	849.1	64.61	29.57	21.72	102.79	11.40	301.8	2.84	625.5	585.2									9.32	19.35	2294.1
JER-01 ap11	397566	381.2	32.66	16.08	7.40	51.11	5.97	122.7	1.42	59.4	288.6									3.78	10.08	140.1
JER-01 ap12	397154	713.3	53.86	24.28	13.22	85.50	9.47	224.7	2.41	59.2	518.3									3.53	16.17	56.6
JER-01 ap13	396371	475.9	47.35	22.25	15.01	70.24	8.66	152.7	2.11	167.1	352.8									9.36	14.51	1161.5
JER-01 ap14	393893	814.0	52.91	25.36	17.23	85.61	9.72	303.6	2.38	656.7	529.0									11.25	17.43	2557.2
JER-01 ap15	395863	543.9	50.25	23.65	15.08	76.31	8.96	172.6	2.40	364.9	416.2				83.2 4					4.61	15.65	1114.3
JER-01 ap16	397113	593.3	40.01	19.39	13.30	63.85	7.44	212.7	1.89	104.7	390.7									5.29	13.63	211.1
JER-01 ap17	396857	736.7	52.09	24.57	14.90	83.10	9.64	250.8	2.51	139.2	497.9									4.33	17.08	187.5
JER-01 ap18	392958	933.4	65.64	31.72	20.58	103.52	11.93	339.8	3.23	1106.8	617.6									32.25	21.23	2649.3
JER-01_ap19	397733	230.1	23.16	10.97	3.99	34.40	4.23	72.5	1.00	54.4	176.1	566141				176.7				1.54	7.35	248.6
JER-01_ap20	393738	785.9	48.91	21.95	15.85	77.09	8.60	294.4	2.37	753.1	498.1									96.9	14.73	2654.3
JER-01_ap21	393666	911.8	60.91	27.64	19.23	98.72	10.90	336.1	2.73	9.599	601.7									11.45	18.13	2622.8
JER-01_ap22	396935	603.8	43.79	20.66	12.46	68.45	8.07	202.5	5.09	139.5	420.9					302.4				4.07	14.08	305.5
JER-01_ap23	397109	549.7	40.73	19.68	11.73	63.72	7.29	191.2	1.90	123.2	381.0									7.63	13.19	251.8
JER-01_ap24	393503	922.0	59.61	28.84	19.90	93.59	10.79	338.8	2.91	719.4	605.7									10.20	19.78	2721.2
JER-01_ap3	397375	411.6	33.27	16.42	9.45	52.29	6.14	129.1	1.53	2.96	305.4									2.51	10.55	207.1
JER-01_ap6	393671	770.2	52.80	24.11	16.36	82.41	9.24	286.1	2.31	808.3	509.4									10.81	16.25	2624.6
JER-01_ap7	397097	610.1	42.99	19.89	13.53	67.73	7.54	211.9	5.09	115.3	418.1									5.26	13.30	161.3
JER-01_ap8	397569	388.4	34.56	15.98	7.29	54.55	6.38	128.6	1.55	73.6	291.2					186.7 (				3.69	10.50	108.2
JER-01_ap9	396201	643.4	42.48	19.69	13.36	92.99	7.71	231.6	1.89	185.8	414.1									2.65	12.93	1024.8
LB002_ap1	395972	707.5	168.15	104.07	37.35	176.45	33.97	129.2	14.66	480.5	739.5									0.29	96.81	272.3
LB002_ap10	394845	1043.8	214.44	128.99	41.72	226.95	42.98	296.5	18.16	616.2	869.1									1.17	121.27	753.4
LB002_ap11	395977	632.0	171.88	90.08	47.78	193.06	32.32	129.2	9.50	427.8	734.8									0.52	68.61	430.8
LB002_ap12	396596	555.6	105.17	49.79	33.95	135.31	18.43	103.7	5.46	275.5	582.0									0.20	38.55	361.8
LB002_ap13	396248	625.0	153.72	79.21	31.80	178.06	28.41	156.2	8.50	420.8	587.3									0.37	61.79	291.2
LB002_ap14	389972	1562.6	103.74	52.69	87.42	115.42	19.52	761.8	4.4	2288.4	688.8									98.9	35.57	2975.4
LB002_ap15	392730	2098.4	326.96	204.51	52.64	317.24	68.14	781.6	31.59	1160.4	1300.0	0								0.69	206.44	479.6
LB002_ap2	395459	881.5	199.23	134.05	30.24	195.13	41.78	243.9	22.51	526.2	695.2	_								4.0	141.84	501.6
LB002_ap3	394823	1144.3	242.02	187.81	42.67	198.73	55.10	394.5	36.77	749.8	736.9	_			•					0.88	221.65	376.5
LB002_ap4	395390	1114.0	180.14	110.24	36.40	199.68	36.48	336.2	17.55	546.1	793.1	ω.				227.5 29		21.38 16.3		0.23	111.97	290.0
LB002_ap5	395293	948.0	185.98	102.77	34.87	208.81	34.85	267.7	13.73	638.4	754.2	565285							2 2.81	<0.162	29.06	440.5
LB002_ap7	395325	1094.1	160.57	102.26	41.56	162.67	33.17	346.9	18.03	537.7	694.1	565204	3.21	154.8 1	162.0	93.8 24	24.99 70	.76 15.73	3 9.17	0.51	108.60	533.5
LB002_ap8	396716	545.5	99.89	44.05	32.21	145.75	17.48	157.9	4.53	282.2	505.9	565716			41.8	72.2 18	.81	.36 5.5	0.36	0.39	32.16	233.8
<b>1</b> *	*All elements are in ppm.	ents a	re in t	opm.																		

Appendix C: Eastern Sunda arc apatite trace element chemistry (LA-ICP-MS)

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Analysis ID	Ca	Ce	Dy	Er	Eu	PS	Но	La	Γn	Na	J PN	Ь	Pb Pr	S	Sr	Tb	Th	Tm	Π	^	Υb	Fe
LB002_ap9	395696	9.965	298.99	260.09	38.62	225.05	73.99	162.0	52.92	445.0	529.6	565262						4		0.56	306.23	410.0
LB009_ap1	390910	2958.5	154.41	72.58	30.62	232.15	27.83	1213.2	7.15	1440.6	1441.6	563851	1.82 3				2	5 8.85		14.94	51.05	1618.3
LB009_ap10	394197	1201.8	57.41	27.57	20.17	97.36	10.26	459.4	3.02	864.5	684.3	565275	•	•		514.8 11.				13.09	20.09	1254.6
LB009_ap11	391344	2781.1	110.64	52.36	29.68	173.02	19.65	1168.2	5.27	1448.9	1262.9	564140				339.2 20.		3 6.44		17.17	37.76	1496.9
LB009_ap12	391164	2807.5	163.25	80.63	30.35	234.52	29.60	1084.4	7.80	1386.2	1420.1	563940				328.2 29.62			7.95	12.97	55.88	1581.6
LB009_ap14	392156	1522.9	69.87	34.04	26.83	117.35	12.87	575.5	3.60	1363.1	852.0	565008						_		23.04	23.94	2334.2
LB009_ap15	389898	3555.6	237.32	112.06	47.37	343.64	43.50	1439.0	10.16	1280.5	1951.9	562901	2.03 4		374.3 36					15.50	74.28	1701.7
LB009_ap2	389192	3992.9	252.83	123.08	37.43	354.49	45.90	1573.6	11.35	1514.9	2044.5	562710	•				_	_		17.00	83.70	1651.2
LB009_ap3	390364	3369.7	191.41	93.73	29.58	275.80	35.07	1347.8	9.65	1640.8	1654.1	563574				287.4 34.54	54 37.86			15.67	66.42	1240.3
LB009_ap4	389835	3594.9	198.42	94.65	31.85	301.63	36.27	1379.3	9.23	1594.7	1836.9	563257	1.57 4							15.68	96.99	1548.2
LB009_ap5	390170	3306.1	170.71	81.95	26.10	248.63	30.99	1324.4	8.01	1660.7	1570.3	563649				319.6 31.55		6 9.92		19.38	57.24	1630.1
LB009_ap6	390787	3054.0	179.17	83.83	34.15	275.14	32.01	1196.4	7.39	1314.1	1588.6	563584								13.06	53.91	1642.3
LB009_ap7	390611	3116.8	168.39	77.93	34.18	263.75	30.27	1227.2	7.03	1446.3	1601.3	563638								15.79	50.17	1593.2
LB009_ap8	390626	3063.0	208.70	99.36	30.74	287.21	37.45	1228.8	9.44	1411.7	1564.9	563603		.,		338.4 37.99				16.94	68.18	1630.2
LB009_ap9	392782	2008.6	74.70	36.57	32.54	120.09	13.14	892.0	3.89	1149.6	917.1	564730							_	15.64	26.81	1476.4
LB018_ap1	391000	2373.5	460.71	212.56	25.71	544.28	81.66	816.5	16.04	1125.9	1674.5	563488					12 32.72	.2 24.28		18.74	130.22	1822.3
LB018 ap10	389504	2442.0	479.88	238.32	21.55	541.04	90.00	836.4	19.28	2301.5	1825.3									9.10	151.60	1360.2
LB018_ap2	395616	691.0	157.51	65.82	8.87	223.56	27.97	206.3	4.19	316.1	647.6	565342				179.4 29.64				7.60	33.83	1089.6
LB018_ap3	392017	2437.5	330.94	148.81	25.61	445.57	59.20	827.4	9.78	833.5	1750.4	563580	1.32 3							23.94	76.93	1291.4
LB018_ap5	390893	2475.1	409.53	199.97	24.25	511.73	76.44	784.5	16.18	1164.7	1860.3		_							11.97	125.97	1795.9
LB018_ap6	390589	1344.3	222.88	98.33	14.80	299.09	38.97	413.3	6.55	402.2	1051.8									34.16	55.03	5796.4
LB018_ap7	390518	3643.1	475.54	228.72	30.24	640.24	90.15	1278.2	17.17	884.0	2568.3									16.28	137.50	650.7
LB018_ap8	392213	2277.5	199.40	87.87	36.10	277.78	35.59	788.7	7.45	827.4	1499.1	563913	2.10 33							6.79	26.77	1681.0
LB018_ap9	391415	3154.9	383.54	177.73	26.83	514.81	69.49	1128.1	13.80	674.8	2093.3									7.87	109.73	1103.2
LB022_ap1	394854	879.6	446.75	271.59	35.19	414.91	91.48	253.5	31.93	591.9	889.1			152.2 29						2.80	223.03	396.2
LB022_ap10	393977	961.2	387.06	232.65	33.38	361.85	77.81	302.5	28.33	802.8	855.4									4.05	203.23	1152.7
LB022_ap11	391890	1086.7	493.38	304.21	39.56	428.52	100.54	345.2	38.67	743.3	978.5	564162								12.66	271.50	3229.4
LB022_ap12	394784	724.8	476.08	333.83	30.51	380.23	104.30	208.6	47.82	2.999	723.8									2.58	316.47	550.2
LB022_ap13	393942	1001.3	607.67	345.44	33.23	583.82	120.84	261.6	36.91	863.8	1148.4			184.3 40						1.93	268.92	347.9
LB022_ap14	393426	1105.7	496.06	292.92	50.51	467.65	82.66	331.6	33.44	1071.6	1053.2	564659			353.1 20			5 39.02		2.71	239.05	735.2
LB022_ap15	391160	1478.7	1242.73	753.44	80.27	1080.05	254.34	412.2	91.87	1010.8	1720.9									6.40	657.12	700.2
LB022_ap2	394182	1094.7	492.31	299.25	38.66	436.78	98.97	327.9	36.91	874.2	1004.3									3.15	262.98	295.5
LB022_ap3	394333	950.7	476.01	289.48	32.11	431.95	97.57	266.7	35.26	775.0	934.4									3.45	245.65	587.8
LB022_ap4	394079	1100.0	80.009	392.86	46.83	503.76	128.45	343.5	51.67	701.5	1010.7							55.00		3.36	362.03	321.3
LB022_ap5	394988	862.2	451.23	282.98	32.09	388.52	92.04	247.7	35.86	2.765	826.2									2.91	247.40	335.2
LB022_ap6	394880	727.0	552.77	328.09	34.52	461.94	117.99	201.5	44.47	601.2	816.1		0.54	130.5 29	296.9 11	112.1 80.04				7.82	306.01	292.9
LB022_ap7	394028	962.0	516.17	320.40	33.73	464.23	107.21	269.7	38.85	1084.2	959.1									<u>4</u>	280.24	273.0
LB022_ap8	394169	1098.0	472.56	296.51	39.93	416.54	96.56	344.2	37.97	893.6	982.8	564760								2.06	265.90	367.5
LB022_ap9	394971	301.2	97.43	45.17	44.23	109.39	17.14	101.1	4.71	637.1	274.4									2.09	35.60	2043.2
LB024_ap1	394004	285.3	30.63	16.53	19.69	40.05	5.73	114.4	2.34	634.0	185.8	_								<0.165	15.87	2960.2
LB024_ap2	393808	193.6	12.29	5.17	21.68	20.35	1.93	74.8	0.54	2447.1	129.2	_						18 0.60		6.14	4.13	516.1
LB024_ap3	394734	496.5	124.52	48.22	103.99	189.66	19.44	134.8	5.04	846.2	512.2	565669							1.52	55.24	35.31	1381.9
LB024_ap4	394564	387.8	19.38	7.79	100.87	34.65	3.05	164.2	1.06	1741.8	209.9	_								5.80	6.94	284.5
LB024_ap5	396152	144.3	9.44	3.18	47.85	18.71	1.43	47.3	0.34	1127.7	106.3								0.03	2.16	2.48	129.6
LB024_ap6	393101	403.8	34.80	15.95	19.03	48.86	6.11	188.6	1.79	1467.8	231.4	_			•					21.91	12.35	2270.2
LB024_ap7	384026	101.2	4.10	1.69	6.70	6.21	0.63	39.4	0.29	3779.9	55.2	<u>~</u>			_	_				1.75	2.37	10034.9
LB024_ap8	394253	367.9	68.79	40.66	20.24	75.39	13.63	125.1	5.76	1552.6	267.9	٠	12.36	54.5	-	683.4 11.39	39 9.89	9 5.63	0.27	1.64	37.45	1049.5
LB029_ap1	392701	3371.1	158.28	79.70	25.83	218.17	28.10	1520.9	8.07	355.5	1414.3	563231	.,			176.3 28.				14.56	59.33	946.5
LB029_ap2	383250	1932.4	264.37	106.28	43.91	361.59	45.56	720.5	6.63	414.4	1290.5				331.1 32	9 (		7 11.57	3.49	17.43	57.96	13480.5
LB029_ap2	395288	680.3	20.7	50.61	16.23	127.09	18.70	255.4	4.48	185.3	536.9	265236		16.8		165.8 16.				6.80	33.86	1948.2
* `	$^*\!\mathrm{All}$ elements are in ppm.	nents a	re in p	pm.																		

Appendix C: Eastern Sunda arc apatite trace element chemistry (LA-ICP-MS)

Analysis ID	Ca	Ce	Dy	Er	Eu	PS	Но	La	Lu	Na	PN	Р	Pb	Pr	Sm	Sr	Tb	Th	Tm	n	>	Υb	Fe
LB029_ap3	394857	1156.7	83.04	39.51	24.73	127.66	15.00	446.8	3.55	612.6	724.8	565200	0.67	152.6	137.2	485.6	14.86	8.80	4.36	2.08	17.48	25.59	858.6
LB030 ap1	391733	440.6	155.39	75.76	24.42	187.37	29.46	137.0	5.86	602.2	459.1	564951	0.33	76.0	139.9	308.1	26.25	2.33	8.39	0.94	18.43	44.94	5573.8
LB030 ap10	393520	492.3	168.80	84.46	24.46	198.51	31.72	146.5	6.78	358.7	489.4	565086	0.26	81.5	149.7	294.2	27.87	2.20	9.24	0.87	27.30	50.22	3749.0
LB030_ap11	391647	564.7	174.74	85.30	24.55	219.47	33.41	171.4	6.51	509.7	541.0	564759	0.56	91.2	160.2	300.4	29.40	2.41	9.50	0.95	17.47	49.40	5601.5
 LB030_ap12	392952	469.4	151.75	75.33	24.08	190.00	29.00	143.3	2.97	523.3	463.8	565127	0.24	78.3	139.5	293.3	25.85	2.07	8.39	0.83	17.11	44.08	4234.8
LB030 ap13	392984	548.6	195.68	94.67	28.10	228.11	36.20	167.0	99.7	332.7	554.7	564876	0.28	92.9	171.5	299.8	32.01	2.51	10.84	1.01	16.58	25.67	4262.7
LB030_ap14	391799	467.7	158.01	79.12	25.12	194.95	30.48	143.6	6.38	606.1	461.1	564949	0.63	79.0	142.7	301.3	26.35	2.46	8.88	96.0	22.10	47.69	5447.6
LB030_ap15	393894	416.2	148.46	74.12	25.53	180.40	28.02	125.9	6.05	271.3	422.1	565176	0.25	70.5	131.5	298.8	25.01	2.23	8.51	0.82	21.50	44.37	3628.2
LB030_ap16	390698	362.4	131.89	63.32	21.65	153.88	24.58	109.9	5.32	826.0	369.3	565011	0.40	62.4	114.3	297.8	21.19	1.87	7.25	0.72	29.12	38.95	6648.1
LB030_ap17	391603	436.5	156.60	78.70	25.53	185.36	29.59	132.5	6.23	1166.2	442.6	565341	0.30	74.0	135.2	302.9	25.97	2.21	8.86	0.89	20.34	46.19	4779.4
LB030_ap2	379938	564.1	162.64	81.67	24.24	199.03	30.85	178.0	7.18	92636	520.2	562782	0.39	91.8	150.0	280.5	27.47	2.66	9.41	0.99	20.56	51.12	18917.5
LB030_ap3	391967	2.895	182.88	90.46	23.86	211.61	34.62	175.7	7.27	814.7	546.3	565034	0.39	94.9	164.3	291.6	30.29	2.14	10.20	0.81	23.95	54.33	4669.9
LB030 ap4	391252	552.6	179.75	88.26	25.39	226.31	34.40	172.9	7.15	2.699	543.8	564790	0.31	93.1	165.5	294.2	31.02	2.07	9.91	0.90	11.13	52.51	5797.2
LB030_ap5	392427	466.6	161.18	79.53	25.57	194.31	30.67	144.8	6.48	523.4	466.0	565011	0.56	79.3	143.0	303.3	26.27	2.56	8.86	96.0	22.08	47.39	4829.0
LB030_ap6	392408	472.0	164.85	80.71	26.38	198.38	30.96	144.1	99.9	506.4	470.5	564986	0.34	79.4	147.3	304.3	27.45	2.28	8.99	0.91	20.46	49.23	4864.0
LB030_ap7	393710	437.4	156.35	77.32	26.23	189.81	29.64	132.0	98.9	285.1	436.4	565124	0.24	74.4	137.9	298.9	25.96	2.24	8.61	0.84	21.80	47.71	3770.4
_B030_ap8	393099	550.0	185.84	89.48	26.18	225.34	35.02	166.8	7.01	343.7	544.3	564921	0.26	91.0	162.4	303.8	31.22	2.41	10.07	0.97	14.16	51.67	4137.9
LB030_ap9	391956	630.5	189.75	95.90	26.11	229.27	36.56	196.7	7.85	536.2	587.7	564772	0.36	103.0	173.8	292.8	32.46	2.66	10.85	06.0	8.25	58.76	5051.2
LB036_ap1	390592	18.8	7.43	3.24	2.86	9.57	1.48	8.5	0.29	2972.6	14.3	567003	13.62	2.6	5.4	128.1	1.48	0.27	0.41	0.08	1.58	2.26	4197.3
_B036_ap2	391039	25.1	7.45	2.86	4.35	10.09	1.18	17.5	0.19	1707.2	12.5	566158	21.30	2.8	5.2	191.0	1.56	0.11	0.29	0.20	2.89	1.55	5769.1
LB036_ap4	396294	36.8	11.68	4.40	5.46	15.38	1.93	15.2	0.30	766.3	32.7	566530	15.52	5.9	12.1	78.2	2.23	0.36	0.50	0.40	1.23	2.36	1152.5
_ , LB036 ap5	394116	21.7	11.74	5.56	6.20	14.31	2.21	11.6	0.50	2006.0	17.6	566921	50.34	3.1	7.1	381.2	1.79	8.57	0.59	0.44	8.49	3.91	1354.9
LB036_ap6	395756	129.7	51.51	17.48	19.59	70.79	7.97	36.4	0.99	1169.4	141.0	566518	42.25	23.8	59.5	295.8	10.21	3.27	1.76	1.00	1.58	9.39	595.3
LB036_ap8	391411	18.9	50.68	15.38	7.47	32.56	7.13	9.0	0.95	1643.8	17.5	566157	31.55	3.1	9.0	231.2	8.18	2.90	1.74	3.01	419.32	8.50	4881.6
*	*All elements are in ppm	ents a	re in	opm.																			
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Appendix C: Eastern Sunda arc rutile trace element chemistry (EMPA)

Analysis ID	Ti	0	ΑI	Si	Ca	۸	Cr	Mn	Fe	Cu	Zr	Nb	Mo	Sn	Ta	W
LB025_323_rut1																
LB025_323_rut10	59.08	39.69	0.011	0.023	0.051	0.028	0.014	<0.003	0.322	<0.004	0.087	0.041	<0.007	0.002	<0.01	<0.009
LB025_323_rut11	58.27	39.45	090.0	0.192	0.077	0.109	0.024	0.017	0.386	<0.004	0.083	0.025	<0.007	0.003	<0.01	<0.009
LB025_323_rut12	58.35	39.47	0.051	0.138	0.065	0.206	0.036	0.012	0.386	<0.004	0.063	0.024	<0.007	0.004	<0.01	<0.009
LB025_323_rut13	58.70	39.63	0.036	0.086	0.037	0.163	990.0	0.014	0.382	0.073	0.068	0.024	<0.007	0.003	<0.01	<0.009
LB025_323_rut14	58.42	39.43	0.032	0.083	0.061	0.127	0.021	0.008	0.438	0.011	0.104	0.031	<0.007	0.003	<0.01	<0.009
LB025_323_rut15	58.51	39.44	0.032	0.082	0.030	0.085	0.021	<0.003	0.385	0.039	0.097	0.033	<0.007	0.003	<0.01	<0.009
LB025_323_rut16	0.10	20.97	0.028	44.669	900.0	<0.018	<0.003	<0.003	0.010	<0.003	<0.008	<0.008	<0.008	<0.002	<0.008	<0.009
LB025_323_rut17	57.88	39.46	0.103	0.338	0.163	0.138	0.039	0.027	0.363	<0.004	0.118	0.021	<0.007	0.004	<0.01	<0.009
LB025_323_rut18																
LB025_323_rut2	58.53	39.45	0.030	0.067	0.048	0.134	0.032	900'0	0.378	0.009	0.046	0.035	<0.006	0.004	<0.01	<0.009
LB025_323_rut3	58.09	39.31	0.030	0.071	0.292	0.181	0.050	0.008	0.422	0.021	0.064	0.033	<0.006	9000	<0.01	<0.009
LB025_323_rut4	57.29	39.37	0.132	0.455	0.326	0.146	0.015	0.020	0.713	0.031	0.091	0.026	<0.007	0.003	<0.01	<0.009
LB025_323_rut5	56.97	39.47	0.201	0.646	0.297	0.288	0.041	0.043	0.601	0.005	0.068	0.024	<0.006	0.003	<0.01	<0.009
LB025_323_rut6	58.53	39.43	0.017	0.043	0.058	0.118	0.028	0.007	0.375	0.014	0.093	0.037	<0.007	90.00	<0.01	<0.009
LB025_323_rut7	58.18	39.55	0.083	0.252	0.108	0.183	0.023	0.023	0.443	0.023	0.064	0.025	<0.006	0.003	<0.01	<0.009
LB025_323_rut8	58.68	39.62	0.026	0.075	0.108	0.202	0.050	0.004	0.361	<0.004	0.071	0.034	<0.007	0.009	<0.01	<0.009
LB025_323_rut9	58.10	39.32	0.039	0.108	0.043	0.220	0.010	0.009	0.541	0.115	0.081	0.030	<0.007	0.004	<0.01	<0.009
LB032_326_rut1	58.63	39.53	0.030	0.023	<0.002	0.089	0.508	<0.003	0.065	<0.004	<0.006	0.012	<0.007	0.035	<0.01	0.018
LB032_326_rut10	57.81	39.25	0.084	0.136	0.025	0.107	0.156	0.104	0.741	<0.004	<0.006	0.041	<0.007	0.019	<0.01	0.012
LB032_326_rut11	58.14	39.50	0.126	0.143	0.022	0.129	0.420	<0.003	0.395	<0.004	<0.006	0.015	<0.007	0.016	<0.01	<0.009
LB032_326_rut12	58.48	39.67	0.138	0.137	0.037	0.187	0.295	<0.003	0.223	<0.004	<0.006	0.014	<0.007	0.015	<0.01	0.014
LB032_326_rut13	54.05	38.15	0.227	0.344	0.016	0.139	0.482	0.006	3.925	0.032	<0.006	0.016	<0.007	0.023	<0.01	0.040
LB032_326_rut14	58.23	39.46	0.018	0.028	0.003	0.046	1.002	<0.003	0.010	<0.004	<0.006	0.019	<0.007	0.040	<0.01	<0.009
LB032_326_rut15	96.75	39.41	0.012	0.034	0.005	0.147	1.149	<0.003	0.024	<0.004	<0.006	0.017	<0.007	0.098	<0.01	0.018
LB032_326_rut17	58.56	39.49	0.083	0.077	0.007	0.107	0.154	<0.003	0.213	<0.004	<0.006	0.019	<0.007	0.025	<0.01	<0.008
LB032_326_rut18	57.55	39.16	0.146	0.142	0.032	0.113	0.352	<0.003	0.598	0.005	<0.006	0.013	<0.007	0.021	<0.01	0.017
LB032_326_rut19	57.35	39.03	0.163	0.164	0.034	0.213	0.302	<0.003	0.421	<0.004	<0.006	0.014	<0.007	0.017	<0.01	0.011
LB032_326_rut2	57.90	39.37	0.052	0.059	0.009	0.069	1.032	<0.003	0.160	<0.004	<0.006	0.013	<0.007	0.020	<0.01	0.011
LB032_326_rut3	55.16	38.63	0.198	0.205	0.015	0.118	0.874	0.004	3.081	<0.004	<0.006	0.018	<0.007	0.037	<0.01	0.023
LB032_326_rut4	54.79	38.44	0.131	0.197	0.004	0.119	0.823	<0.003	3.612	0.026	<0.006	0.012	0.007	0.039	<0.01	0.014
LB032_326_rut5	58.35	39.36	0.037	0.070	0.012	0.063	0.123	0.009	0.476	0.016	<0.006	0.049	<0.007	0.011	0.010	0.017
LB032_326_rut6	57.28	39.11	0.119	0.131	0.016	0.167	0.878	<0.003	0.272	<0.004	<0.006	0.014	<0.007	0.029	<0.01	<0.009
LB032_326_rut7	58.73	39.94	0.055	0.072	0.010	0.324	0.772	<0.003	0.072	<0.004	<0.006	0.026	<0.007	0.093	<0.01	<0.009
LB032_326_rut8	26.60	38.94	0.241	0.260	0.019	0.194	0.406	0.005	1.081	0.007	<0.006	0.011	<0.007	0.031	<0.01	0.013
LB032_326_rut9	57.71	39.20	0.045	0.063	0.005	0.074	0.684	<0.003	0.532	<0.004	<0.006	0.023	<0.007	0.032	<0.01	0.041
LB033_327_rut1	58.90	39.57	0.025	0.029	0.007	0.134	<0.003	<0.003	0.235	<0.004	0.039	0.038	<0.007	0.008	<0.01	0.012
LB033_327_rut10	58.84	39.62	0.121	0.027	<0.002	0.179	0.076	<0.003	0.075	<0.004	0.007	0.021	<0.007	090:0	<0.01	0.009
LB033_327_rut11	58.97	39.70	0.032	0.033	0.003	0.337	<0.003	<0.003	0.192	<0.004	0.013	0.012	<0.007	0.026	<0.01	0.019
LB033_327_rut12																
LB033_327_rut13	59.04	39.70	0.037	0.028	0.010	0.163	0.007	<0.003	0.240	<0.004	0.039	0.038	<0.007	0.011	<0.01	0.010
LB033_327_rut14	58.96	39.66	0.027	0.036	0.002	0.170	0.005	<0.003	0.256	<0.004	0.035	0.044	0.007	0.034	<0.01	0.052
LB033_327_rut15	29.07	39.69	0.032	0.023	<0.002	0.184	0.005	<0.003	0.242	<0.004	0.022	0.011	<0.007	0.017	<0.01	<0.008
LB033_327_rut16	59.13	39.76	0.038	0.022	900.0	0.184	0.009	<0.003	0.217	<0.004	0.029	0.038	<0.007	0.026	<0.01	0.011
LB033_327_rut17	59.05	39.74	0.034	0.030	0.003	0.226	0.007	<0.003	0.252	<0.004	0.032	0.038	<0.007	0.032	<0.01	0.016
LB033_327_rut18	59.15	39.77	0.044	0.025	0.002	0.219	0.020	<0.003	0.200	<0.004	0.018	0.015	<0.007	0.010	<0.01	<0.009
LB033_327_rut19	58.43	39.55	0.031	0.120	0.031	0.534	0.072	0.008	0.039	<0.004	0.011	0.030	<0.007	0.069	<0.01	0.015
LB033_327_rut2	58.93	39.62	0.043	0.042	0.014	0.163	0.028	0.014	0.127	<0.004	0.014	0.029	<0.007	0:030	<0.01	<0.009
LB033_327_rut20																
LB033_327_rut3	59.05	39.68	0.036	0.018	0.007	0.149	0.007	<0.003	0.218	<0.004	0.034	0.039	<0.007	0.027	<0.01	0.020
*All e	*All elements are in wt. % (EMPA)	e in wt.	% (EMP/	<u>:</u>												

Appendix C: Eastern Sunda arc rutile trace element chemistry (EMPA)

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Analysis ID	F	0	¥	Si	Ca	۸	ċ	Mn	Fe	Cu	Zr	qN	Мо	Sn	Та	Μ
LB033_327_rut4	59.15	39.82	0.035	0.026	0.003	0.299	0.011	<0.003	0.198	<0.004	0.044	0.025	<0.007	0.032	<0.01	0.020
LB033_327_rut5	59.30	39.93	0.043	0.022	<0.002	0.299	0.014	<0.003	0.198	<0.004	0.034	0.051	<0.007	0.019	<0.01	0.022
LB033_327_rut6	59.14	39.74	0.029	0.033	0.008	0.175	<0.003	<0.003	0.183	<0.004	0.029	0.024	<0.007	0.022	<0.01	0.012
LB033_327_rut7	29.06	39.66	0.032	0.015	0.002	0.147	0.018	<0.003	0.203	<0.004	0.026	0.021	<0.007	0.015	<0.01	<0.009
LB033_327_rut8	58.98	39.62	0.034	0.030	0.013	0.129	<0.003	<0.003	0.244	<0.004	0.012	0.020	<0.007	0.012	<0.01	<0.009
LB033_327_rut9	59.03	39.71	0.032	0.017	<0.002	0.227	0.019	<0.003	0.221	<0.004	0.032	0:030	<0.007	0.072	<0.01	<0.009
LB041_330_rut1	58.53	39.52	0.008	0.015	<0.002	0.320	0.051	<0.003	0.718	<0.004	0.021	0.056	<0.007	0.035	<0.01	0.012
LB041_330_rut10	58.43	39.46	0.011	0.019	<0.002	0.258	0.072	<0.003	0.615	<0.004	0.042	0.062	0.015	0.032	<0.01	0.028
LB041_330_rut11	58.93	39.71	0.005	0.022	<0.002	0.144	0.039	<0.003	0.617	<0.004	0.020	0.022	<0.007	0.060	<0.01	0.035
LB041_330_rut12																
LB041_330_rut13																
LB041_330_rut14																
LB041_330_rut15																
LB041_330_rut2	59.28	39.93	0.004	0.017	<0.002	0.128	960.0	<0.003	0.557	<0.004	0.009	<0.006	<0.007	0.026	<0.01	0.106
LB041_330_rut3	99'22	39.08	0.007	0.024	0.004	0.056	0.081	<0.003	1.325	0.005	0.031	0.059	0.015	0.048	<0.01	0.104
LB041_330_rut4	58.28	39.35	0.004	0.022	0.002	0.100	0.075	<0.003	0.722	<0.004	0.026	0.042	<0.007	0.031	<0.01	0.227
LB041_330_rut5	58.29	39.44	0.006	0.023	0.004	0.191	0.065	<0.003	0.851	<0.004	0.044	0.064	0.032	0.051	<0.01	0.100
LB041_330_rut6	58.63	39.62	0.008	0.037	0.003	0.245	0.038	<0.003	0.742	<0.004	0.031	0.042	0.012	0.024	<0.01	0.042
LB041_330_rut7	58.47	39.68	0.027	0.018	<0.002	0.622	0.108	<0.003	0.586	<0.004	0.015	0.025	0.049	0.024	<0.01	0.049
LB041_330_rut8	58.51	39.53	0.003	0.021	0.002	0.159	0.062	<0.003	0.830	<0.004	0.022	0.036	0.021	0.092	<0.01	0.051
LB041_330_rut9	58.39	39.47	0.005	0.024	0.003	0.291	990.0	<0.003	0.740	<0.004	0.017	0.068	0.013	0.023	<0.01	0.015
LB045_332_rut1	58.82	39.55	0.019	0.128	0.038	<0.021	<0.003	0.004	0.170	<0.004	0.055	0.020	<0.007	0.003	<0.01	<0.009
LB045_332_rut10	58.93	39.54	0.009	0.043	0.017	<0.021	0.004	<0.003	0.224	900.0	0.054	0.019	<0.007	<0.002	<0.01	<0.009
LB045_332_rut11	58.84	39.57	0.018	0.118	0.040	<0.021	<0.003	<0.003	0.265	<0.004	0.046	0.013	<0.007	<0.002	<0.01	<0.009
LB045_332_rut12	58.48	39.61	0.050	0.325	0.108	<0.021	0.005	0.008	0.195	<0.004	0.044	<0.006	<0.007	<0.002	<0.01	<0.009
LB045_332_rut13	57.38	39.40	0.106	0.683	0.302	<0.021	<0.003	0.005	0.165	0.004	0.054	0.028	<0.007	<0.003	<0.01	<0.009
LB045_332_rut14	58.14	39.40	0.117	0.229	0.079	0.121	<0.003	0.015	0.221	0.005	0.044	0.035	<0.007	0.004	<0.01	<0.009
LB045_332_rut15	58.86	39.51	0.005	0.017	0.005	<0.021	0.102	<0.003	0.257	9000	0.046	0.034	<0.007	<0.003	<0.01	<0.009
LB045_332_rut16	58.52	39.26	9000	0.019	<0.002	0.022	0.004	<0.003	0.357	0.007	0.051	0.017	<0.007	<0.002	<0.01	<0.009
LB045_332_rut17	58.58	39.31	0.006	0.016	0.004	0.022	0.003	<0.003	0.376	<0.004	0.076	0.011	<0.007	<0.002	<0.01	<0.009
LB045_332_rut18	58.50	39.60	0.059	0.317	0.074	<0.021	<0.003	0.013	0.146	<0.004	0.048	0.014	<0.007	<0.002	<0.01	<0.009
LB045_332_rut19	55.55	38.89	0.594	0.771	0.232	0.410	<0.003	0.047	0.099	<0.004	0.087	0.021	<0.007	<0.003	<0.01	<0.009
LB045_332_rut2	58.23	39.31	0.034	0.221	0.088	<0.021	0.004	0.004	0.242	<0.004	0.057	0.00	<0.007	<0.003	<0.01	<0.009
LB045_332_rut3	58.81	39.41	0.006	0.026	0.003	<0.021	0.005	<0.003	0.194	0.004	0.042	0.026	<0.007	0.003	<0.01	<0.009
LB045_332_rut4	58.89	39.49	0.013	0.065	0.020	<0.021	<0.003	<0.003	0.141	<0.004	0.049	<0.006	<0.007	<0.002	<0.01	<0.009
LB045_332_rut5	58.47	39.54	0.046	0.285	0.093	<0.021	<0.003	0.008	0.172	0.034	0.050	0.009	<0.007	<0.002	<0.01	<0.009
LB045_332_rut6	58.78	39.43	0.008	0.019	0.007	0.063	<0.003	<0.003	0.272	0.004	0.047	0.011	<0.007	<0.002	<0.01	<0.009
LB045_332_rut7	58.91	39.50	0.006	0.012	0.003	<0.021	0.006	<0.003	0.339	<0.004	0.047	0.017	<0.007	<0.002	\$ 6.04 5 6	<0.009
LB045_332_1410	0.90	\$0.86 \$1.11	0.003	0.017	0.002	-0.021	50.003	>0.003	0.2 14	×0.004	0.03	0.007	×0.007	20.002	0.07	50.00
LB045_332_rut9	58.84	39.53	0.016	0.099	0.039	0.027	<0.003	0.005	0.170	<0.004	0.038	0.016	<0.007	<0.002	<0.01	<0.009
ELF-03_333_rut1	58.69	39.46	<0.002	0.016	0.013	0.103	0.007	<0.003	0.504	<0.004	<0.006	0.017	<0.007	0.057	<0.01	0.016
ELF-03_333_rut10	58.86	39.59	0.003	0.015	0.026	0.091	0.005	<0.003	0.550	<0.004	0.007	0.029	<0.007	0.024	<0.01	0.061
ELF-03_333_rut12	58.74	39.58	9000	0.021	0.037	0.271	0.056	<0.003	0.382	<0.004	0.008	0.023	<0.007	0.029	<0.01	0.049
ELF-03_333_rut13	58.76	39.53	0.008	0.021	0.049	0.122	0.00	<0.003	0.491	<0.004	<0.006	0.007	<0.007	0.037	<0.01	0.011
ELF-03_333_rut14	58.99	39.69	0.004	0.013	0.029	0.207	<0.003	<0.003	0.442	<0.004	<0.006	0.012	<0.007	0.042	<0.01	<0.009
ELF-03_333_rut15	58.74	39.56	0.003	0.021	0.018	0.196	0.072	<0.003	0.453	<0.004	0.010	900:0	<0.007	0.076	<0.01	<0.009
ELF-03_333_rut16	58.73	39.53	0.006	0.018	0.038	0.069	<0.003	0.004	0.561	<0.004	<0.006	0.017	0.007	0.055	<0.01	0.119
ELF-03_333_rut17	59.42	39.93	0.003	0.013	0.012	0.107	0.007	<0.003	0.489	<0.004	900'0	0.008	<0.007	0.039	<0.01	<0.009
ELF-03_333_rut18	58.73	39.62	0.008	0.022	0.200	0.176	0.081	<0.003	0.402	<0.004	0.008	0.024	<0.007	0.065	<0.01	0.041
ELF-03_333_rut2	58.79	39.51	0:007	_	0.017	0.106	0.008	<0.003	0.440	<0.004	<0.006	0.012	<0.007	0.018	<0.01	<0.009
*AII e	*All elements are in wt. % (EMPA	e in wt. 🤇	% (EMP/	<del>_</del>												

Appendix C: Eastern Sunda arc rutile trace element chemistry (EMPA)

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Analysis ID	F	0	₹	Si	Ca	>	င်	Mn	Fe	Cu	Zr	QN	Мо	Sn	Та	>
ELF-03_333_rut3	58.66	39.59	0.005	0.021	0.081	0.243	0.168	<0.003	0.346	<0.004	0.008	0.020	<0.007	0.075	<0.01	0.070
ELF-03_333_rut4	58.35	39.21	0.010	0.021	0.050	0.081	0.007	<0.003	0.477	<0.004	<0.006	<0.006	<0.007	900.0	<0.01	<0.009
ELF-03_333_rut5	58.86	39.56	<0.002	0.014	0.083	0.145	0.010	<0.003	0.344	<0.004	<0.006	0.017	<0.007	0.013	<0.01	<0.009
ELF-03_333_rut6	58.59	39.75	0.004	0.017	0.037	0.691	0.138	<0.003	0.302	<0.004	<0.006	0.021	<0.007	0.049	<0.01	0.252
ELF-03_333_rut7	58.61	39.48	0.004	0.019	0.018	0.164	0.093	<0.003	0.476	<0.004	<0.006	0.016	<0.007	0.072	<0.01	0.042
ELF-03_333_rut8	58.80	39.62	0.002	0.016	0.028	0.294	0.035	<0.003	0.456	<0.004	0.008	0.010	<0.007	0.035	<0.01	0.011
ELF-03_333_rut9	90.09	40.43	<0.002	0.021	0.042	0.122	0.020	<0.003	0.545	<0.004	0.007	0.015	<0.007	0.046	<0.01	0.055
GBF-04_335_rut2	58.81	39.67	0.004	0.020	0.012	0.548	0.005	<0.003	0.292	<0.004	<0.006	0.012	<0.007	900.0	<0.01	0.010
GBF-04_335_rut3	58.46	39.41	0.011	0.043	0.064	0.134	0.009	0.006	0.443	<0.004	0.011	0.018	<0.007	0.016	<0.01	0.229
GBF-04_335_rut4	58.48	39.42	0.004	0.026	0.063	0.137	0.005	<0.003	0.510	<0.004	<0.006	0.012	<0.007	0.070	<0.01	0.225
GBF-04_335_rut5	58.68	39.66	0.006	0.035	0.066	0.572	0.013	<0.003	0.268	<0.004	<0.006	<0.006	<0.007	0.125	<0.01	0.021
GBF-04_335_rut6																
GBF-04_335_rut7	58.97	39.72	0.016	0.046	0.041	0.255	<0.003	<0.003	0.365	<0.004	<0.006	0.009	<0.007	0.058	<0.01	0.013
GBF-04_335_rut8	58.37	39.39	0.004	0.022	0.045	0.113	<0.003	<0.003	0.634	<0.004	0.028	0.009	<0.007	0.052	<0.01	0.290
GBF-04_335_rut9	58.81	39.57	0.004	0.029	0.022	0.176	<0.003	<0.003	0.453	<0.004	0.007	0.010	<0.007	0.028	<0.01	0.036
SPF-05_336_rut2																
SPF-05_336_rut3																
SPF-05_336_rut4																
SPF-05_336_rut5																
SPF-05_336_rut6																
NEF-02_337_rut1	58.04	39.30	<0.002	0.016	0.005	0.255	0.313	<0.003	0.473	<0.004	0.008	0.029	<0.007	0.011	<0.01	0.324
NEF-02_337_rut10	58.65	39.47	0.003	0.024	0.013	0.177	0.171	<0.003	0.229	<0.004	0.009	0.010	<0.007	0.022	<0.01	0.028
NEF-02 337 rut11	58.45	39.47	0.005	0.032	0.049	0.239	0.154	<0.003	0.557	<0.004	0.010	0.015	<0.007	0.021	<0.01	0.023
NEF-02 337 rut12	58.30	39.38	0.006	0.031	0.044	0.204	0.253	<0.003	0.266	<0.004	0.037	0.013	<0.007	0.026	<0.01	0.209
NEF-02 337 rut13	58.46	39.44	0.006	0.035	0.058	0.263	0.037	<0.003	0.502	<0.004	0.028	0.020	<0.007	0.012	<0.01	<0.008
NEF-02 337 rut14	58.21	39.24	0.007	0.026	0.051	0.089	0.019	<0.003	0.519	<0.004	0.017	0.025	<0.007	0.039	<0.01	0.252
NEF-02 337 rut15	58.47	39.43	0.005	0.021	0.059	0.205	0.199	<0.003	0.320	<0.004	0.018	0.013	<0.007	0.026	<0.01	0.065
NEF-02 337 rut16	58.62	39.51	0.006	0.021	0.020	0.197	0.176	<0.003	0.312	<0.004	0.021	0.024	<0.007	0.022	<0.01	0.080
NEF-02 337 rut17	58.83	39.65	0.008	0.034	0.077	0.277	0.029	0.007	0.375	<0.004	<0.006	0.017	<0.007	0.023	<0.01	<0.009
NEF-02_337_rut2	58.57	39.55	0.007	0.018	0.313	0.123	0.190	<0.003	0.333	<0.004	<0.006	0.012	<0.007	0.018	<0.01	0.056
NEF-02_337_rut3	58.74	39.59	0.006	0.021	0.101	0.278	0.023	<0.003	0.440	<0.004	<0.006	0.011	<0.007	0.008	<0.01	0.010
NEF-02_337_rut4	58.33	39.34	0.006	0:030	0.055	0.256	0.093	0.004	0.373	<0.004	<0.006	0.009	<0.007	0.019	<0.01	0.108
NEF-02_337_rut5	58.91	39.74	0.006	0.029	0.045	0.288	0.059	<0.003	0.380	<0.004	0.041	0.041	<0.007	0.038	<0.01	0.062
NEF-02_337_rut6	57.04	38.61	0.012	0.080	0.202	0.229	0.110	<0.003	0.356	<0.004	0.020	0.038	<0.007	0.022	<0.01	0.129
NEF-02_337_rut7	58.37	39.32	0.004	0.013	0.018	0.227	0.033	<0.003	0.431	<0.004	0.035	0.054	0.008	0.013	<0.01	0.039
NEF-02_337_rut8	58.55	39.42	0.005	0.022	0.050	0.150	0.202	<0.003	0.272	<0.004	0.013	0.017	<0.007	0.014	<0.01	<0.009
NEF-02_337_rut9	58.58	39.44	0.006	0.022	0.057	0.114	0.016	<0.003	0.615	<0.004	<0.006	0.015	<0.007	0.022	<0.01	<0.009
ELF-01_rut1	58.80	39.65	0.0127	0.0375	0.0211	0.1020	0.0146	<0.003	0.8276	0.0061	<0.005	0.0159	<0.007	0.0185	<0.01	0.0116
ELF-01_rut10	59.10	39.76	0.0081	0.0163	0.0276	0.1367	0.0039	<0.003	0.5265	0.0057	<0.005	0.0411	<0.006	0.0164	<0.01	<0.01
ELF-01_rut11	58.69	39.55	0.0229	0.0109	0.0183	0.0413	<0.003	<0.003	0.7350	<0.004	0.0087	0.0242	<0.007	0.0091	<0.011	0.2322
ELF-01_rut12	59.05	39.74	0.0081	0.0102	0.0239	0.1308	0.0031	<0.003	0.6396	<0.004	0.0136	0.0211	<0.007	0.0052	<0.01	0.0191
ELF-01_rut13	59.15	39.92	0.0086	0.0535	0.0788	0.1440	0.0077	<0.003	0.6708	0.0050	<0.005	0.0203	<0.007	0.0371	<0.01	0.0905
ELF-01_rut14	58.02	39.53	0.0114	0.0079	0.0221	0.2111	0.0902	<0.003	1.5970	<0.004	0.0085	0.0086	<0.007	0.0226	<0.011	0.5454
ELF-01_rut15	26.77	38.86	0.0181	0.0081	0.0289	0.0699	<0.003	<0.003	1.8835	<0.005	0.0143	0.0130	<0.007	0.0122	<0.011	1.2659
ELF-01_rut16	58.95	39.66	0.0065	0.0171	0.0199	0.1752	<0.003	<0.003	0.4948	<0.004	0.0092	0.0237	<0.006	0.0323	<0.01	<0.01
ELF-01_rut17	55.84	38.55	0.0165	0.0303	0.0355	0.1961	0.0362	<0.003	1.7216	<0.005	0.0280	0.0340	<0.007	0.0223	<0.012	2.2652
ELF-01_rut18	59.15	40.04	0.0127	0.0098	0.0388	0.2356	0.0280	<0.003	0.7231	<0.004	0.0084	0.0665	<0.007	0.0127	<0.011	0.4849
ELF-01_rut19	59.11	39.80	0.0084	0.0093	0.0538	0.1113	0.0134	<0.003	0.6737	<0.004	<0.006	0.0263	<0.007	0.0277	<0.01	<0.01
ELF-01_rut2	58.80	39.60	0.0130	0.0050	0.0617	0.0783	<0.003	0.0066	0.7396	0.0049	<0.005	0.0170	0.0067	0.0236	<0.01	<0.01
ELF-01_rut20	58.93	39.77	0.0028	0.0085	0.0326	0.0874	<0.003	<0.003	1.0066	<0.004	0.0141	0.0248	<0.007	0.0306	<0.01	0.1057
*All el	*All elements are in wt. %	e in wt.	% (EMPA)	Ε.												
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Appendix C: Eastern Sunda arc rutile trace element chemistry (EMPA)

Analysis ID	F	c	IA	i.	CS	>	ڻ	Ψ.	ų.	ij	7.2	£	C N	S	<u></u>	×
EI E-0.1 ru#21	55.07	08 30	0.0622	0.0102	76600	0.1632	0.0645	<0.00	1 00/17	<0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.0010	0.0152	200.02	0,000	<0.012	3,0081
ELF-01 rut22	58.94	39.66	0.0144	0.0092	0.0362	0.0428	<0.003	<0.003	0.6988	<0.003	0.0101	0.0271	<0.007	0.0245	<0.01	<0.07
ELF-01_rut23	59.09	39.82	0.0098	0.0093	0.0810	0.1174	<0.003	<0.003	0.7463	<0.004	<0.005	0.0239	<0.006	0.0289	<0.01	0.0265
ELF-01_rut24	58.04	39.28	0.0298	0.0171	0.0805	0.0552	<0.003	<0.003	0.9308	<0.004	0.0080	0.0287	<0.007	0.0250	<0.011	0.4794
ELF-01_rut25	58.72	39.61	0.0197	0.0097	0.0315	0.0571	<0.003	<0.003	0.9103	<0.004	0.0074	0.0258	<0.007	0.0317	<0.01	0.1046
ELF-01_rut26	59.02	39.69	0.0161	0.0080	0.0206	0.0345	<0.003	<0.003	0.6715	<0.004	0.0056	0.0231	<0.007	0.0187	<0.01	<0.01
ELF-01_rut27	58.51	39.51	0.0159	0.0134	0.0389	0.0486	<0.003	0.0035	0.8844	<0.004	<0.006	0.0833	<0.007	0.0343	<0.01	0.1819
ELF-01_rut28	59.23	39.83	0.0085	0.0164	0.1002	0.0741	<0.003	<0.003	0.4750	<0.004	<0.006	0.0441	<0.006	0.0136	\$ 0.04 5 6	0.0183
ELF-01_IUE3	58.99	39.72	0.0068	0.000	0.0003	0.0327	0.0034	0.003	0.4920	0.0032	<0.0030	0.0400	<0.000	0.0172	0.00	0.02
ELF-01 rut30	57.59	39.25	0.0055	0.0150	0.0181	0.2537	0.0113	<0.003	1.1372	<0.005	0.0198	0.0758	<0.007	0.0133	<0.011	1.0336
ELF-01_rut4	57.89	39.27	0.0330	0.0049	0.0623	0.0499	<0.003	0.0032	1.0609	<0.004	0.0073	0.0158	<0.007	0.0158	<0.011	0.8027
ELF-01_rut5	58.45	39.62	0.0184	0.0081	0.0361	0.1409	0.0032	<0.003	0.9891	<0.005	0.0102	0.0214	<0.007	0.0116	<0.011	0.8113
ELF-01_rut6	58.56	39.59	0.0072	0:0030	0.0600	0.0694	0.0036	<0.003	0.9526	<0.004	9600.0	0.0257	<0.007	0.0114	<0.011	0.4378
ELF-01_rut7	57.95	39.32	0.0209	0.0107	0.0382	0.0634	<0.003	<0.003	0.9404	<0.005	0.0132	0.0692	<0.007	0.0124	<0.011	6006.0
ELF-01_rut8	20.02	39.84	0.0124	<0.002	0.0718	0.0350	<0.003	<0.003	0.7465	<0.004	0.0120	0.0857	0.0084	0.0306	<0.01	0.2149
ELF-01_rut9	58.97	39.81	0.0105	0.0033	0.1452	0.1224	0.1967	<0.003	0.4637	<0.004	0.0100	0.0187	<0.007	0.0143	<0.01	0.1968
ELF-02_rut1	58.68	39.58	0.0085	0.0199	0.0670	0.1640	<0.003	0.0033	0.5445	<0.004	<0.005	0.0181	<0.006	0.0248	<0.011	0.2662
ELF-02_rut10	57.50	39.23	0.0214	0.0078	0.0478	0.3166	0.0727	<0.003	0.9409	<0.005	0.0261	0.0113	<0.007	0.0224	<0.011	1.2512
ELF-02_rut11	59.10	40.02	0.0067	0.0075	0.0164	0.3150	0.0627	<0.003	0.9520	<0.004	0.0320	0.0395	0.0075	0.0109	<0.01	0.1286
ELF-02_rut12	56.83	39.04	0.0197	0.0045	0.0437	0.3510	0.0896	<0.003	1.2885	<0.005	0.0132	0.0341	<0.007	0.0203	<0.012	1.7980
ELF-02_rut13	58.85	39.71	0.0174	0.0065	0.0503	0.1197	0.0336	<0.003	0.7017	<0.004	<0.005	0.0245	<0.006	0.0198	<0.011	0.2356
ELF-02_rut14	58.10	39.44	0.0822	0.0043	0.0449	0.2028	0.0424	<0.003	1.2418	<0.004	<0.006	0.0251	<0.006	0.0179	<0.011	0.1758
ELF-02_rut15	59.13	39.79	0.0157	0.0064	0.0401	0.0867	<0.003	<0.003	0.6490	0.0058	<0.005	0.0283	<0.006	0.0068	<0.01	<0.01
ELF-02_rut16	57.80	39.52	0.0168	0.0124	0.0318	0.8546	0.0055	<0.003	0.6779	<0.005	0.0172	0.0452	<0.007	0.0203	<0.011	0.9749
ELF-02_rut17	56.64	38.97	0.0255	0.0049	0.0437	0.3690	0.0602	<0.003	1.3463	<0.005	0.0226	0.0384	<0.007	0.0207	<0.012	1.9226
ELF-02_rut18	56.47	38.80	0.0367	0.0074	0.0345	0.2426	0.1140	<0.003	1.2792	<0.005	0.0258	0.0125	<0.007	0.0295	<0.012	1.9054
ELF-02_rut19	58.87	39.81	0.0116	0.0112	0.1137	0.2015	0.0052	<0.003	0.7157	<0.004	0.0138	0.1655	>0.006	0.0156	<0.01	0.1179
ELF-02_rut2	58.94	39.87	0.0094	0.0077	0.0645	0.3733	0.0040	<0.003	0.5446	<0.004	0.0202	0.0852	<0.007	0.0237	<0.011	0.2680
ELF-02_rut20	58.37	39.49	0.0178	0.0083	0.0397	0.2022	0.0693	<0.003	0.7332	<0.004	0.0114	0.0290	>0.006	0.0194	<0.011	0.4076
ELF-02_rut21	58.82	39.71	0.0154	0.0067	0.0482	0.2212	0.0369	<0.003	0.5868	<0.004	<0.005	0.0256	<0.007	0.0206	<0.011	0.2954
ELF-02_rut22	58.86	39.69	0.0259	0.0036	0.0377	0.1368	0.0423	<0.003	0.5856	<0.004	<0.005	0.0234	<0.007	0.0273	<0.04 6.04	0.2239
ELF-02_rut23	59.12	39.88	0.0250	0.0108	0.0811	0.2586	0.0074	<0.003	0.5023	<0.004	<0.005	0.0121	<0.007	0.0642	40.04	0.1310
ELF-02_IUZ#	36.70	39.43	0.000	0.0072	0.1102	0.3037	20.0312	00.000	0.0241	00.00	0.0147	0.038	700.07	0.0633	20.07	0505.1
ELF-02_10025	57.05	39 10	0.0254	0.0070	0.000	0.1876	0.0639	<0.003	1 27 49	<0.004	0.0076	0.0394	<0.007	0.0218	<0.012	17110
ELF-02_rut27	58.66	39.75	0.0178	0.0101	0.0541	0.5160	0.0061	<0.003	0.5191	<0.004	0.0081	0.0102	<0.00>	0.0722	<0.011	0.4066
ELF-02_rut28	58.77	39.65	0.0169	0.0116	0.0344	0.1135	0.0417	<0.003	0.6709	<0.004	0.0106	0.0392	<0.006	0.0214	<0.011	0.2379
ELF-02_rut29	59.50	40.08	0.0202	0.0102	0.0624	0.2737	<0.003	0.0033	0.4175	<0.004	<0.005	0.0150	>0.006	0.0605	<0.01	<0.01
ELF-02_rut3	56.76	39.01	0.0255	0.0074	0.0363	0.4206	0.0541	<0.003	1.2036	<0.005	0.0198	0.0129	<0.007	0.0327	<0.012	1.8482
ELF-02_rut30	57.73	39.35	0.0129	0.0084	0.0338	0.2135	0.0861	<0.003	1.0425	<0.005	0.0251	0.0345	<0.006	0.0310	<0.011	1.1284
ELF-02_rut31	59.18	39.91	0.0144	0.0088	0.0283	0.2359	0.1630	<0.003	0.3955	<0.004	0.0195	0.0135	0.0113	0.0112	<0.01	0.0838
ELF-02_rut32	58.76	39.63	0.0185	0.0100	0.0466	0.1129	0.0266	<0.003	0.7119	<0.004	0.0074	0.0290	<0.007	0.0285	<0.01	0.1583
ELF-02_rut4	58.63	39.66	0.0144	0.0071	0.0690	0.2467	0.1390	0.0032	0.5532	<0.004	0.0163	0.0149	<0.006	0.0309	<0.011	0.3351
ELF-02_rut5	56.96	39.09	0.0362	0.0057	0.0135	0.5145	<0.003	<0.003	1.0361	<0.005	0.0237	0.0133	<0.007	0.0166	<0.012	1.8100
ELF-02_rut6	59.34	40.00	0.0299	0.0129	0.0430	0.2840	<0.003	<0.003	0.4550	<0.004	0.0130	0.0271	<0.007	0.0250	<0.01	0.0655
ELF-02_rut7	57.55	39.25	0.0400	0.0098	0.0625	0.2849	<0.003	<0.003	0.9553	<0.005	0.0099	0.0415	<0.007	0.0434	<0.011	1.2302
ELF-02_rut8	57.51	39.29	0.0223	0.0053	0.0756	0.2927	0.0236	<0.003	1.1173	<0.005	0.0212	0.0556	<0.007	0.0228	<0.011	1.2713
ELF-02_rut9	58.29	39.60	0.0164	0.0131	0.0473	0.4498	0.0328	<0.003	0.7081	<0.004	<0.006	0.0199	<0.006	0.0133	<0.011	0.7000
LB005_rut1	59.02	39.69	0.0032	0.0061	0.0178	0.2553	0.0142	<0.003	0.3223	<0.004	0.0075	0.0470	<0.007	0.0045	<0.01	<0.01
*AII e	*All elements are in wt. % (EMP.	e in wt. ۰	% (ЕМРА	A).												

Appendix C: Eastern Sunda arc rutile trace element chemistry (EMPA)

6.9         4.0         6.0         0.0 <th></th> <th>Ë</th> <th>c</th> <th>IV</th> <th>ö</th> <th>ć</th> <th>,</th> <th>;</th> <th>Ma</th> <th>Ğ</th> <th>;</th> <th>7.</th> <th>4</th> <th>Mo</th> <th>20</th> <th>ŕ</th> <th>141</th>		Ë	c	IV	ö	ć	,	;	Ma	Ğ	;	7.	4	Mo	20	ŕ	141
9.9.7         4.0.05         -0.002         0.0034         -0.	Alialysis ID	=	Þ	ē	ō	Š	>	5		Þ	3	7	2	0	5	<u> </u>	<b>A</b>
58.95         39.75         40.002         10.003 <td>LB005_ruf10</td> <td></td> <td>9</td> <td>9</td> <td>0</td> <td></td> <td></td> <td></td> <td>9</td> <td></td> <td>9</td> <td></td> <td></td> <td>9</td> <td>0</td> <td>9</td> <td>Ġ</td>	LB005_ruf10		9	9	0				9		9			9	0	9	Ġ
9.8.19         38.79         -0.0023         0.0044         0.0045         0.0074<	LB005_rut2	29.57	40.03	<0.002	0.0076	0.0186	0.2360	0.0035	<0.003	0.3047	<0.004	0.0156	0.0134	<0.007	0.0054	<0.01	<0.01
58.50         38.78         0.0032         0.0044         0.0254         0.0254         0.0036         0.0244         0.0036         0.0244         0.0036         0.0244         0.0036         0.0244         0.0036         0.0244         0.0036         0.0244         0.0036         0.0244         0.0036         0.0244         0.0036         0.0240         0.0036 <td>LB005_rut3</td> <td>59.19</td> <td>39.79</td> <td>&lt;0.003</td> <td>0.0063</td> <td>0.0178</td> <td>0.2075</td> <td>0.0044</td> <td>0.0039</td> <td>0.3491</td> <td>&lt;0.004</td> <td>0.0423</td> <td>0.0487</td> <td>&lt;0.006</td> <td>0.0043</td> <td>&lt;0.01</td> <td>&lt;0.01</td>	LB005_rut3	59.19	39.79	<0.003	0.0063	0.0178	0.2075	0.0044	0.0039	0.3491	<0.004	0.0423	0.0487	<0.006	0.0043	<0.01	<0.01
65.00         30.00         <	LB005_rut4	59.20	39.78	0.0032	0.0069	0.0046	0.2487	0.0032	<0.003	0.2803	0.0054	0.0000	0.0254	<0.007	0.0042	<0.01	<0.01
64.77         40.06         0.0044         0.0074         0.0234         0.0284         0.0039         0.0284         0.0039         0.0289         0.0039         0.0039         0.0034         0.0034         0.0284         0.0039         0.0039         0.0034 <td>LB005_rut5</td> <td>59.04</td> <td>39.77</td> <td>0.0030</td> <td>0.0131</td> <td>0.0815</td> <td>0.2747</td> <td>&lt;0.003</td> <td>0.0041</td> <td>0.4148</td> <td>&lt;0.004</td> <td>0.0069</td> <td>0.0430</td> <td>&lt;0.007</td> <td>0.0141</td> <td>&lt;0.01</td> <td>0.0108</td>	LB005_rut5	59.04	39.77	0.0030	0.0131	0.0815	0.2747	<0.003	0.0041	0.4148	<0.004	0.0069	0.0430	<0.007	0.0141	<0.01	0.0108
58 50         38 55         0.00031         0.0041         0.0015         0.0028         0.0028         0.0003         0.0041         0.0046         0.0028         0.0004         0.0048         0.0039         0.0049 </td <td>LB005_rut6</td> <td>60.79</td> <td>40.85</td> <td>0.0044</td> <td>0.0074</td> <td>0.0234</td> <td>0.2384</td> <td>&lt;0.003</td> <td>&lt;0.003</td> <td>0.2769</td> <td>&lt;0.004</td> <td>&lt;0.005</td> <td>0.0370</td> <td>&lt;0.007</td> <td>0.0071</td> <td>&lt;0.01</td> <td>&lt;0.01</td>	LB005_rut6	60.79	40.85	0.0044	0.0074	0.0234	0.2384	<0.003	<0.003	0.2769	<0.004	<0.005	0.0370	<0.007	0.0071	<0.01	<0.01
55.00         39.55         0.0034         0.0044         0.0614         0.0259         0.0105         0.0107         0.0054         0.0107         0.0054         0.0106 <td>LB005_rut8</td> <td></td>	LB005_rut8																
55.00         38.85         0.0031         0.0041         0.0054         0.0059 <td>LB005_rut9</td> <td></td>	LB005_rut9																
58.89         39.96         0.0024         0.0117         0.0029         0.0029         0.0029         0.0129         0.0229         0.0029         0.0129         0.0229         0.0029         0.0129         0.0229         0.0029         0.0129         0.0229         0.0029         0.0129         0.0229         0.0029         0.0049         0.0029         0.0049         0.0029         0.0049         0.0029         0.0049 <td>NAF-01_rut1</td> <td>29.00</td> <td>39.83</td> <td>0.0031</td> <td>0.0041</td> <td>0.0616</td> <td>0.2307</td> <td>0.0280</td> <td>&lt;0.003</td> <td>0.5018</td> <td>&lt;0.004</td> <td>0.0075</td> <td>0.0277</td> <td>0.0068</td> <td>0.1052</td> <td>&lt;0.011</td> <td>0.3102</td>	NAF-01_rut1	29.00	39.83	0.0031	0.0041	0.0616	0.2307	0.0280	<0.003	0.5018	<0.004	0.0075	0.0277	0.0068	0.1052	<0.011	0.3102
58.59         38.66         0.00034         0.0117         0.00234         0.01074         0.01074         0.01074         0.01074         0.01074         0.01074         0.01074         0.01074         0.01074         0.01074         0.01074         0.01074         0.00074         0.01074         0.01074         0.00074         0.01074         0.01074         0.00074         0.01074         0.01074         0.00074         0.01074         0.00074         0.01074         0.01074         0.00074         0.01074         0.01074         0.00074         0.01074         0.01074         0.00074         0.01074         0.0	NAF-01_rut10																
58.99         38.96         0.0034         0.0177         0.0632         0.0463         4.0026         6.0046         4.0026         6.0066         4.0026         6.0066         4.0026         6.0076         6.0076 <td>NAF-01_rut11</td> <td></td>	NAF-01_rut11																
58.96         38.96         0.0024         0.0117         0.0024         0.0117         0.0024         0.0117         0.0024         0.0179         0.0024         0.0024         0.0179         0.0024 <td>NAF-01_rut12</td> <td></td>	NAF-01_rut12																
58.60         38.64         0.0026         0.0079         0.0079         0.0179 <td>NAF-01_rut2</td> <td>58.99</td> <td>39.66</td> <td>0.0034</td> <td>0.0117</td> <td>0.0332</td> <td>0.0834</td> <td>0.0493</td> <td>&lt;0.003</td> <td>0.4794</td> <td>&lt;0.004</td> <td>&lt;0.005</td> <td>&lt;0.006</td> <td>&lt;0.007</td> <td>0.0741</td> <td>&lt;0.01</td> <td>&lt;0.01</td>	NAF-01_rut2	58.99	39.66	0.0034	0.0117	0.0332	0.0834	0.0493	<0.003	0.4794	<0.004	<0.005	<0.006	<0.007	0.0741	<0.01	<0.01
58.56         39.58         0.0029         0.0079         0.0079         0.01594         0.0164 </td <td>NAF-01_rut3</td> <td>28.90</td> <td>39.67</td> <td>0.0026</td> <td>0.0079</td> <td>0.0671</td> <td>0.1120</td> <td>0.0225</td> <td>0.0038</td> <td>0.5100</td> <td>&lt;0.004</td> <td>&lt;0.005</td> <td>0.0361</td> <td>&lt;0.007</td> <td>0.0404</td> <td>&lt;0.01</td> <td>0.1991</td>	NAF-01_rut3	28.90	39.67	0.0026	0.0079	0.0671	0.1120	0.0225	0.0038	0.5100	<0.004	<0.005	0.0361	<0.007	0.0404	<0.01	0.1991
59.20         38.34         0.0054         0.0189         0.0189         0.0163         0.0163         0.0163         0.0163         0.0164         0.0054         0.0164 <td>NAF-01_rut4</td> <td>58.66</td> <td>39.58</td> <td>0.0029</td> <td>0.0079</td> <td>0.0575</td> <td>0.1316</td> <td>0.0565</td> <td>&lt;0.003</td> <td>0.5602</td> <td>&lt;0.004</td> <td>&lt;0.005</td> <td>0.0148</td> <td>&lt;0.006</td> <td>0.0903</td> <td>&lt;0.011</td> <td>0.3196</td>	NAF-01_rut4	58.66	39.58	0.0029	0.0079	0.0575	0.1316	0.0565	<0.003	0.5602	<0.004	<0.005	0.0148	<0.006	0.0903	<0.011	0.3196
59.67         39.57         0.0055         0.0054         0.0475         0.0475         0.0070         0.0584         0.0079         0.0254         0.0079         0.0254         0.0059         0.0254         0.0059         0.0054         0.0059         0.0059         0.0059         0.0059         0.0059         0.0059         0.0059         0.0059         0.0040         0.0059         0.0042         0.0040         0.0042         0.0040         0.0042         0.0040         0.0042         0.0042         0.0040         0.0042         0.0042         0.0040         0.0042         0.0040         0.0042         0.0042         0.0040         0.0042         0.0042         0.0040         0.0042 <td>NAF-01_rut5</td> <td>59.20</td> <td>39.84</td> <td>0.0051</td> <td>0.0195</td> <td>0.0380</td> <td>0.1394</td> <td>0.0104</td> <td>&lt;0.003</td> <td>0.4973</td> <td>&lt;0.004</td> <td>0.0108</td> <td>0.0543</td> <td>&lt;0.007</td> <td>0.0278</td> <td>&lt;0.01</td> <td>&lt;0.01</td>	NAF-01_rut5	59.20	39.84	0.0051	0.0195	0.0380	0.1394	0.0104	<0.003	0.4973	<0.004	0.0108	0.0543	<0.007	0.0278	<0.01	<0.01
58.54         39.54         0.0034         0.0165         0.0285         0.0036 <td>NAF-01 rut6</td> <td>59.05</td> <td>39.75</td> <td>0.0055</td> <td>0.0056</td> <td>0.0541</td> <td>0.1623</td> <td>0.0472</td> <td>&lt;0.003</td> <td>0.4078</td> <td>&lt;0.004</td> <td>0.0091</td> <td>0.0972</td> <td>&lt;0.006</td> <td>0.0091</td> <td>&lt;0.01</td> <td>0.0141</td>	NAF-01 rut6	59.05	39.75	0.0055	0.0056	0.0541	0.1623	0.0472	<0.003	0.4078	<0.004	0.0091	0.0972	<0.006	0.0091	<0.01	0.0141
58.98         39.75         0.00054         0.00069         0.00666         0.00666         0.00068         0.00666         0.00068         0.00069         0.	NAF-01_rut7	58.54	39.54	0.0034	0.0094	0.0158	0.1256	0.0369	<0.003	0.5938	<0.004	<0.006	0.0554	<0.007	0.1878	<0.011	0.3726
59.19         39.75         0,00054         0,00080         0,00081         0,00084         0,00084         0,00084         0,00089         0,	NAF-01_rut8																
58.95         39.75         0.00544         0.00869         0.00816         0.00846	NAF-01_rut9																
58.16         38.75         0.0054         0.0064 <td>NAF-02_rut1</td> <td></td>	NAF-02_rut1																
58.95         39.70         0.0054         0.0064         0.0046         0.0046         0.0046         0.0043         0.0044         0.0049         0.0044         0.0049         0.0044         0.0049         0.0044         0.0049         0.0044         0.0049         0.0044         0.0049         0.0044         0.0049         0.0044         0.0049         0.0044         0.0049         0.0044         0.0049         0.0044         0.0049         0.0044         0.0049         0.0044         0.0049         0.0044         0.0049         0.0044         0.0049         0.0049         0.0049         0.0044         0.0049 <td>NAF-02_rut10</td> <td>59.19</td> <td>39.75</td> <td>0.0054</td> <td>0900'0</td> <td>0.0062</td> <td>0.0361</td> <td>0.0083</td> <td>&lt;0.003</td> <td>0.4623</td> <td>&lt;0.004</td> <td>0.0162</td> <td>0.0237</td> <td>&lt;0.007</td> <td>0.0807</td> <td>&lt;0.01</td> <td>&lt;0.01</td>	NAF-02_rut10	59.19	39.75	0.0054	0900'0	0.0062	0.0361	0.0083	<0.003	0.4623	<0.004	0.0162	0.0237	<0.007	0.0807	<0.01	<0.01
59.01         39.78         0.0049         0.0049         0.0041         0.0013         0.0030         0.5568         < 0.0044         0.0159         0.0043         0.0045         0.0047         0.0017         0.0017         0.0017         0.0017         0.0017         0.0017         0.0017         0.0017         0.0017         0.0017         0.0018         0.0044         0.0016         0.0017<	NAF-02_rut11	58.95	39.70	0.0051	0.0049	0.0608	0.0616	0.0046	<0.003	0.5794	<0.004	0.0280	0.0844	<0.006	0.1098	<0.01	0.0242
59.38         40.046         0.0044         0.0047         0.0671         <0.0033         <0.0004         0.01049         0.0044         0.0044         0.0044         0.0044         0.0049         0.0044         0.0049         0.004	NAF-02_rut12	59.01	39.78	0.0049	0.0048	0.0301	0.0412	0.0113	<0.003	0.5668	<0.004	0.0150	0.2461	<0.006	0.0951	<0.01	0.0316
59.38         40.02         0.0044         0.0143         0.0041         0.0541         <0.003         0.0166         <0.0044         0.0143         0.0044         0.0044         0.0044         0.0044         0.0044         0.0044         0.0044         0.0044         0.0044         0.0047         0.0049         0.0047         0.0049         0.0054         0.00703         <0.0033         <0.0033         <0.0033         <0.0040         0.0049         0.0054         0.0033         <0.0034         <0.0034         <0.0049         0.0049	NAF-02_rut13	59.39	39.86	0.0045	0.0057	0.0070	0.0512	<0.003	<0.003	0.4473	<0.004	0.0105	0.0292	<0.006	0.0280	<0.01	<0.01
58.01         39.63         0.0067         0.0139         0.0189         0.0654         0.0076         0.0074         0.0081         0.0554         0.0073         0.0074 <td>NAF-02_rut14</td> <td>59.38</td> <td>40.02</td> <td>0.0044</td> <td>0.0143</td> <td>0.0041</td> <td>0.0411</td> <td>&lt;0.003</td> <td>&lt;0.003</td> <td>0.6166</td> <td>&lt;0.004</td> <td>0.0151</td> <td>0.1108</td> <td>&lt;0.007</td> <td>0.2832</td> <td>&lt;0.01</td> <td>&lt;0.01</td>	NAF-02_rut14	59.38	40.02	0.0044	0.0143	0.0041	0.0411	<0.003	<0.003	0.6166	<0.004	0.0151	0.1108	<0.007	0.2832	<0.01	<0.01
58.83         39.65         0.0061         0.0073         0.0073         <0.003         6.5718         <0.004         0.0145         0.2450           59.37         39.30         0.0062         0.0081         0.0083         0.0033         <0.003	NAF-02_rut15	59.01	39.63	0.0067	0.0139	0.0180	0.0554	0.0076	<0.003	0.4459	<0.004	0.0094	0.0109	<0.007	0.0558	<0.01	<0.01
59.37         39.90         0.0062         0.0081         0.0082         0.0533         <0.0003         0.4417         <0.004         0.0146         0.0148           59.09         39.77         0.0022         0.0141         0.0030         0.0584         0.0033         <0.003	NAF-02_rut16	58.83	39.65	0.0061	0.0074	0.0091	0.0594	0.0073	<0.003	0.5718	<0.004	0.0115	0.2450	<0.006	0.0657	0.0430	<0.01
59.09         39.77         0.0029         0.0112         0.0290         0.0544         0.0033         < 0.0033         < 0.0034         0.0044         0.0044         0.0044         0.0044         0.0044         0.0044         0.0049         0.0044         0.0034         0.0049         0.0044         0.0034         0.0049         0.0044         0.0034         0.004	NAF-02_rut17	59.37	39.90	0.0062	0.0081	0.0092	0.0531	<0.003	<0.003	0.4817	<0.004	0.0106	0.0748	<0.007	0.0607	<0.01	<0.01
58.90         39.65         0.0056         0.0081         0.0027         0.0674         0.0084 <ul> <li>0.0049             <li>0.0049             0.0049             0.0049             0.0040             0.0040             0.0040             0.0049</li></li></ul>	NAF-02_rut18	29.09	39.77	0.0029	0.0112	0.0300	0.0584	0.0033	<0.003	0.5339	0.0043	6900.0	0.0141	<0.007	0.2620	<0.01	<0.01
59.24         39.75         0.0069         0.0049         0.0040         0.0710         <0.003         <0.4037         <0.0049         0.0049         0.0074         <0.003         <0.003         <0.0034         <0.0040         0.0074         <0.003         <0.003         <0.0044         <0.0062         <0.0044         <0.0049         <0.0043         <0.003         <0.003         <0.0044         <0.0049         <0.003         <0.003         <0.0049         <0.0049         <0.003         <0.003         <0.0049         <0.0049         <0.003         <0.003         <0.0049         <0.0049         <0.003         <0.003         <0.0049         <0.0049         <0.003         <0.003         <0.0049         <0.0049         <0.003         <0.003         <0.0049         <0.0049         <0.003         <0.003         <0.0049         <0.003         <0.003         <0.0049         <0.003         <0.003         <0.0049         <0.003         <0.003         <0.0049         <0.0049         <0.003         <0.003         <0.0044         <0.0049         <0.003         <0.003         <0.0044         <0.0049         <0.0044         <0.0049         <0.003         <0.003         <0.0044         <0.0049         <0.0044         <0.0049         <0.0044         <0.0044         <0.0044	NAF-02_rut19	58.90	39.62	0.0056	0.0081	0.0027	0.0674	0.0084	<0.003	0.4563	<0.004	0.0182	0.0610	<0.006	0.3068	<0.01	<0.01
58.89         39.67         0.0074         0.0056         0.0459         0.0081         <0.003         0.5220         <0.004         0.0074         0.1133           59.08         39.70         0.0059         0.0144         0.0048         0.0243         <0.003	NAF-02_rut2	59.24	39.75	0.0069	0.0048	0.0040	0.0710	<0.003	<0.003	0.4367	<0.004	<0.005	0.0062	<0.006	0.0067	<0.01	<0.01
59.06         39.70         0.0059         0.0114         0.0048         0.0479         0.0243         <0.0030         0.4783         0.0046         0.0069         0.0069           59.20         39.79         0.0052         0.0064         0.0032         0.0034         <0.003	NAF-02_rut20	58.98	39.67	0.0074	0.0057	0.0026	0.0459	0.0081	<0.003	0.5220	<0.004	0.0074	0.1133	<0.007	0.0881	<0.01	<0.01
59,20         39.79         0.0052         0.0041         0.0332         0.0334         0.0034         <0.0034         <0.0034         <0.0034         <0.0034         <0.0034         <0.0034         <0.0034         <0.0034         <0.0034         <0.0034         <0.0034         <0.0034         <0.0034         <0.0034         <0.0034         <0.0034         <0.0034         <0.0034         <0.0034         <0.0034         <0.0034         <0.0034         <0.0034         <0.0034         <0.0034         <0.0034         <0.0034         <0.0034         <0.0033         <0.0034         <0.0034         <0.0034         <0.0034         <0.0034         <0.0034         <0.0034         <0.0034         <0.0034         <0.0034         <0.0034         <0.0034         <0.0034         <0.0034         <0.0034         <0.0034         <0.0034         <0.0034         <0.0034         <0.0034         <0.0034         <0.0034         <0.0034         <0.0034         <0.0034         <0.0034         <0.0034         <0.0034         <0.0034         <0.0034         <0.0034         <0.0034         <0.0034         <0.0034         <0.0034         <0.0034         <0.0034         <0.0034         <0.0034         <0.0034         <0.0034         <0.0034         <0.0034         <0.0034         <0.0034         <0.0034	NAF-02_rut21	59.08	39.70	0.0059	0.0114	0.0048	0.0479	0.0243	<0.003	0.4783	0.0046	0.0060	0.0084	<0.007	0.1208	<0.01	<0.01
59,42         39,90         0.0053         0.0043         0.0199         0.0586         0.0030         <0.0033         0.4578         <0.0064         0.0066         0.0276           59,20         39,75         0.0070         0.0157         0.0743         0.0081         <0.0033	NAF-02_rut3	59.20	39.79	0.0052	0.0061	0.0302	0.0393	0.0034	<0.003	0.4991	<0.004	0.0056	0.0385	<0.006	0.1095	<0.01	<0.01
59.20         39.75         0.0070         0.0188         0.0589         0.0081         <0.0033         0.4417         0.0052         <0.0051         0.0114           58.99         39.77         0.0054         0.0054         0.0250         0.0743         0.0034         <0.003	NAF-02_rut4	59.42	39.90	0.0053	0.0043	0.0109	0.0586	0.0030	<0.003	0.4578	<0.004	0.0066	0.0276	<0.007	0.0588	<0.01	<0.01
58.99         39.70         0.0054         0.0054         0.0733         0.0714         0.0033         0.4666         0.0433         0.0714         0.0733           59.21         39.77         0.0058         0.0087         0.0056         0.0477         0.0045         <0.003	NAF-02_rut5	59.20	39.75	0.0070	0.0157	0.0188	0.0559	0.0081	<0.003	0.4417	0.0052	<0.005	0.0114	<0.007	0.0194	<0.01	<0.01
59.21     39.77     0.0058     0.0067     0.0056     0.0417     0.0045     <0.003	NAF-02_rut6	58.99	39.70	0.0054	0.0054	0.0250	0.0743	0.0034	<0.003	0.4606	0.0043	0.0114	0.0733	<0.006	0.2254	<0.01	<0.01
59,24         39,83         0.0037         0.0066         0.1385         0.0678         <0.003         0.4669         <0.0076         0.0052         0.0035         0.4607         <0.004         0.0076         0.0233           59,12         39,73         0.0042         0.0065         0.0613         0.0065         0.0036         0.0467         <0.004	NAF-02_rut7	59.21	39.77	0.0058	0.0087	0.0056	0.0417	0.0045	<0.003	0.5622	<0.004	0.0087	0.0236	<0.007	0.0140	<0.01	<0.01
59.12         39.73         0.0042         0.0066         0.0613         0.0052         0.0036         0.0059         0.0128         0.0129         0.0129           58.90         39.78         0.0059         0.0339         0.0066         0.2881         0.1765         <0.003	NAF-02_rut8	59.24	39.83	0.0037	0.0066	0.1385	0.0678	<0.003	<0.003	0.4669	<0.004	0.0076	0.0293	<0.007	0.0103	<0.01	<0.01
58.90 39.78 0.0059 0.0329 0.0085 0.2881 0.1765 <0.003 0.2930 <0.004 <0.005 0.0315 0.03	NAF-02_rut9	59.12	39.73	0.0042	0.0066	0.0062	0.0613	0.0052	0.0036	0.4807	<0.004	0.0128	0.0129	<0.007	0.1456	<0.01	<0.01
58.88 39.79 0.0041 0.0204 0.0523 0.2629 0.2767 <0.003 0.2840 <0.004 0.0260 0.0152	NAF-03_rut1	28.90	39.78	0.0059	0.0329	0.0085	0.2881	0.1765	<0.003	0.2930	<0.004	<0.005	0.0315	<0.006	0.0447	<0.011	0.2098
59.07 39.77 0.0067 0.0173 0.0069 0.2654 0.0197 <0.003 0.3486 <0.004 0.0390 0.0237 0.58,90 39.85 <0.003 0.0038 0.0037 0.4394 0.0327 <0.003 0.8494 <0.004 0.0277 0.0152 0.0152	NAF-03_rut10	58.88	39.79	0.0041	0.0204	0.0523	0.2629	0.2767	<0.003	0.2840	<0.004	0.0260	0.0152	<0.007	0.0407	<0.01	0.1881
58.90 39.85 <0.003 0.0038 0.0037 0.4394 0.0327 <0.003 0.8494 <0.004 0.0277 0.0152	NAF-03_rut11	29.07	39.77	0.0067	0.0173	0.0069	0.2654	0.0197	<0.003	0.3486	<0.004	0.0390	0.0237	0.0085	0.0332	<0.01	0.0360
NAF-03_rut13 NAF-03_rut14 NAF-03_rut15	NAF-03_rut12	28.90	39.85	<0.003	0.0038	0.0037	0.4394	0.0327	<0.003	0.8494	<0.004	0.0277	0.0152	<0.006	0.0157	<0.01	0.0102
NAF-03_rut14 NAF-03_rut15	NAF-03_rut13																
NAF-U3_ru15	NAF-03_rut14																
	NAF-U3_rut15	;	;	;												,	
59.02 39.80 0,0060 0,0133 0,0323 0,1990 0,0159 0,0037 0,6686 <0,004 0,0391 0,0502	NAF-03_rut2	59.02	39.80	0.0060	0.0133	0.0323	0.1990	0.0159	0.0037	0.6585	<0.004	0.0391	0.0502	<0.007	0.0259	<0.01	0.0261
0.0134		59.04	39.70	0.0047		0.0057	0.2176	0.0196	<0.003	0.3291	<0.004	0.0402	0.0100	0.0067	0.0128	<0.01	<0.01
	י ווע	All elements ale in wt. 70 (EMF)	ב זוו אינ	70 (Eivit e													

Appendix C: Eastern Sunda arc rutile trace element chemistry (EMPA)

			•									•		•		
Analysis ID	Τi	0	Ι	Si	Ca	^	Ċ	Mn	Fe	Cu	Zr	Nb	Мо	Sn	Та	Μ
NAF-03_rut4	59.10	39.75	<0.003	0.0141	0.0058	0.2210	0.0509	<0.003	0.3024	<0.004	0.0101	0.0464	<0.007	0.0471	<0.01	<0.01
NAF-03_rut5	59.41	40.02	<0.003	0.0129	0.0150	0.3338	0.0230	<0.003	0.3605	<0.004	0.0619	0.0191	<0.006	0.0288	<0.01	<0.01
NAF-03_rut6	59.09	39.79	0.0048	0.0128	0.0186	0.2865	0.0159	<0.003	0.3198	<0.004	0.0646	0.0142	0.0069	0.0388	<0.01	0.0580
NAF-03_rut7	59.21	40.12	<0.003	0.0079	0.0743	0.5557	0.2752	0:00:0	0.1262	<0.004	0.0303	<0.006	<0.006	0.0483	<0.011	0.2874
NAF-03_rut8	29.00	39.74	0.0061	0.0258	0.0188	0.3489	0.0126	<0.003	0.3005	<0.004	0.0371	<0.006	<0.006	0.0204	<0.01	0.0128
NAF-03_rut9	58.78	39.65	0.0085	0.0169	0.0529	0.2179	0.1204	<0.003	0.4079	<0.004	0.0288	0.0326	<0.007	0.0231	<0.01	0.1309
SLG-01_rut1	59.19	39.79	0.0068	0.0080	0.0031	0.0993	0.0035	<0.003	0.4739	<0.004	0.0588	0.0567	<0.007	0.0047	<0.01	<0.01
SLG-01_rut10	58.44	39.35	0.0092	0.0344	0.0151	0.1218	0.0118	0.0110	0.4251	<0.004	0.0612	0.0772	<0.006	0.0283	40.04 5	0.0328
SLG-01_rut11	59.13	39.74	0.0053	0.0076	0.0022	0.0926	0.0150	<0.003	0.4822	<0.004	0.0265	0.0221	<0.007	0.0606	<0.01	<0.01
SLG-01_rut13	58.94	39.66	0.0066	0.0133	0.0212	0.0860	0.0037	0.0073	0.4903	<0.004	0.0670	0.0809	<0.007	0.0074	0.0√ 5	<0.01
SLG-01_rut14	58.77	39.59	0.0056	0.0048	0.0020	0.0974	0.0034	<0.003	0.5884	<0.004	0.0372	0.1523	<0.006	0.0406	\$0.01 5	0.0418
SLG-01_rut15	58.72	39.58	0.0069	0.0131	0.0040	0.0691	0.0072	<0.003	0.6018	<0.004	0.0229	0.1162	0.0069	0.0803	<0.01 0.01	0.1457
SLG-01_rut16	58.97	39.65	0.0059	0.0208	0.0025	<0.02	0.0037	<0.003	0.5504	<0.004	0.0143	0.0487	<0.007	0.0802	, 6 9.04	0.0419
SLG-01_ruf17	58.90	39.71	0.0026	0.0184	0.0041	0.1061	0.0111	<0.003	0.5137	<0.004	0.0693	0.1649	<0.00V	0.0651	0.03 50.04	0.0867
SLG-01_IUI18	506.74	39.33	0.0074	0.0212	0.000	0.0933	0.0273	5,0062	0.4973	400.00	0.0104	0.14	>0.00	0.0304	0.00	0.0348
SEG-01-14(19	10.90	40.06	0.0103	0.0214	20.0	0.0262	0.0003	0.000	0.4041	100.00	0.03 19	0.0430	<0.000	0.0040	0.00	0.00
2CG-01_10Z	20.93	29:02	0.0043	0.010	0.020	0.0343	10000	00000	0.0203	100.00	0.0069	0.00	,0000/	0.0382	0.00	0.000
SLG-01_rut20	29:02	30.60	0.000	0.0136	0.0000	0.0573	0.0030	0.0042	0.0480	400.00	0.0263	0.1301	×0.007	0.0100	0.00	0.0257
SI G-01 ruf4	58.69	39.56	0.0031	0.0133	0.0025	0.1668	<0.003	<0.0042	0.5054	<0.004	0.0156	0.2063	<0.007	0.0270	0.00	0.05
SLG-01 rut5	55.15	38.82	0.0208	<0.003	0.0120	0.0570	0.0058	0.0034	1.9810	<0.004	0.0159	3.0756	<0.007	0.0537	0.0691	<0.011
SLG-01 rut6	58.95	39.67	0.0089	0.0151	0.0316	0.0732	0.0071	0.0051	0.5006	<0.004	0.0713	0.0554	<0.006	0.0267	<0.01	0.0239
SLG-01_rut7	58.95	39.79	0.0059	0.0132	0.0029	0.1381	0.0091	<0.003	0.5503	<0.004	0.0272	0.2856	<0.006	0.0465	<0.01	0.0518
SLG-01_rut8	58.93	39.64	0.0066	0.0213	0.0289	0.1009	0.0126	0.0136	0.4114	<0.004	0.0681	0.0432	<0.007	0.0172	<0.01	0.0263
SLG-01_rut9	59.02	39.72	0.0070	0.0120	0.0147	0.0450	0.0142	0.0032	0.5486	<0.004	0.0225	0.1375	<0.006	0.0315	<0.01	<0.01
SPF-06_rut10	58.81	39.78	0.0110	0.0044	<0.001	0.5767	0.0697	<0.003	0.3417	<0.004	0.0432	<0.006	<0.007	0.0491	<0.01	0.2342
SPF-06_rut11	58.85	39.68	0.0082	0.0105	0.0083	0.1920	0.0086	<0.003	0.6733	<0.004	<0.006	>0.006	<0.006	0.0172	<0.01	0.2001
SPF-06_rut12	58.83	39.66	0.0059	0.0202	0.0033	0.1530	0.0157	<0.003	0.5599	<0.004	0.0222	0.0124	0.0085	0.0561	<0.01	0.2188
SPF-06_rut13	58.85	39.78	0.0203	0.0059	0.0026	0.2439	0.0250	<0.003	0.5987	<0.004	0.0508	0.0390	<0.00>	0.0247	<0.011	0.4261
SPF-06_rut14	59.00	39.70	0.0031	0.0062	0.0026	0.1621	0.0056	<0.003	0.5015	<0.004	0.0382	0.0623	<0.007	0.0395	<0.01	0.0264
SPF-06_rut15	57.82	39.32	0.0149	0.0055	0.0033	0.4929	0.3677	<0.003	0.3113	<0.004	0.0062	<0.006	<0.007	0.0656	<0.011	0.6737
SPF-06_10(16	58.51	39.53	0.0103	0.0074	0.007	0.2368	0.0420	<0.003	0.5916	<0.004	0.0467	0.0063	<0.000	0.0199	<0.01	0.0317
SPF-06 rut18	59.11	39.87	<0.002	0.0134	0.0034	0.4129	0.1028	<0.003	0.3564	<0.004	0.0076	>0.006	<0.007	0.0275	×0.01	0.0234
SPF-06 rut19	58.98	39.73	0.0112	0.0039	0.0018	0.1988	0.0069	0.0035	0.5284	<0.004	0.0180	0.0300	0.0078	0.0167	<0.01	0.1623
SPF-06_rut2	29.07	39.93	0.0145	<0.002	0.0019	0.4927	0.0338	<0.003	0.4272	<0.004	0.0332	<0.006	<0.006	0.0315	<0.011	0.2575
SPF-06_rut20	59.30	39.86	0.0060	0:0020	0.0030	0.0428	0.0139	<0.003	0.5669	<0.004	0.0347	0.0195	<0.006	0.0202	<0.01	0.0549
SPF-06_rut21	59.20	39.88	0.0044	0.0077	0.0025	0.2805	0.0350	<0.003	0.4970	<0.004	0.0083	0.0134	<0.006	0.0487	<0.01	0.0294
SPF-06_rut22	28.67	39.66	0.0095	0.0079	0:0030	0.3259	0.1714	<0.003	0.4133	<0.004	0.0000	<0.006	<0.007	0.0376	<0.011	0.3371
SPF-06_rut23	59.01	39.78	0.0038	0.0051	0.0017	0.1559	0.0037	<0.003	0.6149	<0.004	0.0142	0.0478	<0.007	0.0196	<0.011	0.2847
SPF-06_rut24	58.68	39.70	0.0114	0.0130	0.0031	0.2886	0.0094	<0.003	0.6498	<0.004	0.0490	0.0648	<0.007	0.0277	<0.011	0.3700
SPF-06_rut25	59.13	39.92	0.0056	0.0080	0.0023	0.5509	0.1086	<0.003	0.2236	0.0046	<0.005	<0.006	<0.00>	0.0256	<0.01	0.0589
SPF-06_rut26	59.48	40.16	0.0054	0.0038	0.0044	0.1397	0.0094	<0.003	0.7111	<0.004	0.0134	0.0254	<0.00>	0.0213	<0.011	0.4725
SPF-06_rut27	58.95	39.64	0.0026	0.0039	<0.001	0.0592	0.0290	<0.003	0.5195	<0.004	0.0131	<0.006	<0.007	0.0452	<0.01	0.1699
SPF-06_rut28	58.79	39.68	0.0117	0.0063	0.0015	0.1055	0.0166	<0.003	0.9025	<0.004	0.0498	0.0177	<0.00>	0.0171	<0.01	0.1478
SPF-06_rut29	59.08	39.80	0.0067	0.0074	0.0026	0.2379	0.0071	<0.003	0.5137	<0.004	0.0155	0.0261	<0.00>	0.0164	<0.01	0.1325
SPF-06_rut3	59.18	39.78	0.0036	0.0068	0.0034	0.0498	0.1513	<0.003	0.4021	<0.004	0.0109	0.0267	<0.00>	0.0236	<0.01	0.0230
SPF-06_rut30	59.74	40.17	0.0057	0.0297	0.0019	0.0404	0.0506	<0.003	0.5235	<0.004	0.0323	0.0229	<0.007	0.0220	40.04 6.04	<0.01
SPF-06_rut4	58.73	39.71	0.0117	0.0110	0.0094	0.0504	0.0279	<0.003	0.8146	<0.004	0.0467	0.0258	<0.006	0.0203	\$0.011 6.044	0.6079
SPF-00-ruts	*All clomonts are in at 0/ (EMDA)	10.80 10.80	CEMBA	0.0104	9.00	70407	0.0	\$0.00°	0.2587	<0.004	0.0055	0.0125	<0.00 <i>/</i>	0.0363	V0.01	7,000
"All e	lements are	e In wr.	% (EMPA	÷												

Appendix C: Eastern Sunda arc rutile trace element chemistry (EMPA)

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Analysis ID	iΕ	0	ΑI	Si	Ca	^	Cr	Mn	Fe	Cu	Zr	Nb	Мо	Sn	Та	Μ
SPF-06_rut6	58.98	39.69	0.0085	0.0108	0.0050	0.1489	0.0090	<0.003	0.5221	<0.004	<0.006	0.0059	<0.007	0.0258	<0.01	0.1194
SPF-06_rut7	58.90	39.63	0.0053	0.0069	0.0067	0.0380	0.0401	<0.003	0.5784	<0.004	0.0408	0.0263	<0.006	0.0190	<0.01	0.1206
SPF-06_rut8	29.00	39.74	0.0087	0.0065	0.0065	0.2194	0.0149	<0.003	0.5280	<0.004	0.0365	0.0133	<0.007	0.0154	<0.01	0.0747
SPF-06_rut9	56.95	38.51	0.0099	0.0110	0.0549	0.2207	0.0087	0.2270	0.7343	0.0053	0.0185	0.0249	0.0076	0.0156	<0.01	0.1037
UG012184_rut1	29.07	39.77	0.1573	0.0163	0.0064	0.1123	0.0058	<0.003	0.0409	<0.004	0.0113	0.0298	<0.007	0.1985	<0.01	0.0536
UG012184_rut10	59.15	39.82	0.1647	0.0802	0.0239	0.0726	0.0051	<0.003	0.0384	<0.004	<0.005	0.0086	<0.007	0.0314	<0.01	0.0264
UG012184_ruf11	58.68	39.62	0.1315	0.0185	<0.001	0.1983	0.0108	0.0036	0.0933	<0.004	<0.005	0.0368	<0.007	0.4441	<0.011	0.2154
UG012184_ruf12	59.55	39.96	0.0747	0.0119	0.0031	0.1471	<0.003	<0.003	0.0192	<0.004	<0.005	0.0378	<0.007	0.0327	<0.01	<0.01
UG012184_ruf13	59.24	39.95	0.0426	0.0271	0.0141	0.5939	0.0056	<0.003	0.0296	<0.004	<0.005	0.0214	<0.007	0.0035	<0.01	<0.01
UG012184_rut14	29.66	40.15	0.0608	0.0393	0.0218	0.2904	0.0103	<0.003	0.0545	0.0044	<0.005	0.0216	<0.007	0.0285	<0.01	0.0242
UG012184_rut15	58.58	40.28	1.1192	0.0469	0.0052	0.0751	0.0043	<0.003	0.0938	<0.004	0.0083	0.0591	<0.007	0.0238	<0.01	0.0116
UG012184_rut16	59.47	39.96	0.0959	0.0197	0.0022	0.0911	0.0064	<0.003	0.0740	<0.004	<0.005	0.0322	<0.006	0.0895	<0.01	0.0588
UG012184_rut17	59.20	39.93	0.3030	0.0242	0.0021	0.0489	<0.003	0.0034	0.1522	<0.004	<0.005	0.0365	<0.007	0.0035	<0.01	<0.01
UG012184_ruf18	58.90	39.58	0.1191	0.0478	0.0176	0.0701	<0.003	<0.003	0.0273	0.0084	0.0057	0.0226	0.0089	0.0320	<0.01	0.0192
UG012184_rut19	58.94	39.70	0.2505	0.0178	0.0130	0.0975	0.0033	0.0072	0.0451	0.0047	0.0055	0.0283	<0.007	0.0150	<0.01	<0.01
UG012184_rut2	59.26	39.94	0.0443	0.0133	0.0042	0.3755	0.0165	<0.003	0.0525	<0.004	<0.006	0.0200	<0.007	0.3124	<0.01	<0.01
UG012184_rut20	59.27	39.90	0.1105	0.0540	0.0310	0.2207	0.0035	0.0078	0.0265	<0.004	<0.005	0.0385	<0.006	0.0029	<0.01	<0.01
UG012184_rut21	59.37	39.89	0.0827	0.0131	0.0025	0.1164	0.0033	<0.003	0.0962	<0.004	<0.005	0.0706	<0.007	0.0521	<0.01	0.0324
UG012184_ruf22	59.24	39.79	0.0595	0.0132	0.0052	0.2171	0.0058	0.0037	0.0505	0.0049	<0.005	0.0179	<0.006	0.0662	<0.01	<0.01
UG012184_rut23	59.40	39.91	0.1543	0.0086	0.0030	0.0920	0.0107	<0.003	0.0341	0.0049	0.0069	0.0090	<0.007	0.0524	<0.01	0.0178
UG012184_ruf24	59.36	39.95	0.0232	0.0200	0.0098	0.4598	0.0033	0.0075	0.0530	<0.004	<0.005	0.0248	<0.007	<0.002	<0.01	<0.01
UG012184_rut25	60.30	40.45	0.1023	0.0125	0.0023	0.0756	<0.003	<0.003	0.0408	0.0051	0.0120	0.0190	<0.006	0.0058	<0.01	<0.01
UG012184_rut26	29.07	39.88	0.3335	0.0293	0.0107	0.0726	0.0059	0.0061	0.0546	0.0067	<0.005	0.0132	<0.007	0.0775	<0.01	0.0217
UG012184_rut27	59.31	39.99	0.2015	0.0151	0.0124	0.2999	<0.003	<0.003	0.0183	0.0088	<0.005	0.0239	<0.007	0.0028	<0.01	<0.01
UG012184_rut28	59.13	39.87	0.1101	0.1134	0.0044	0.1945	<0.003	<0.003	0.0793	<0.004	<0.005	0.0305	<0.007	0.0371	<0.01	<0.01
UG012184_rut3	59.51	40.03	0.1690	0.0134	0.0026	0.0930	0.0110	<0.003	0.0488	<0.004	<0.005	0.0199	<0.007	0.0477	<0.01	0.0777
UG012184_rut4	59.47	39.96	0.0820	0.0126	0.0015	0.0945	0.0000	<0.003	0.2677	<0.004	<0.005	0.0158	<0.007	0.0249	<0.01	0.0138
UG012184_rut5	59.43	40.00	0.0979	0.0308	0.0134	0.3207	<0.003	<0.003	0.0399	<0.004	<0.005	0.0174	<0.007	0.0040	<0.01	<0.01
UG012184_rut6	90.75	39.86	1.7869	0.0336	0.0034	0.1170	0.0491	<0.003	0.0464	<0.004	0.0180	0.0118	<0.007	0.0097	<0.01	<0.01
UG012184_rut7	58.72	39.91	0.1216	0.2453	0.0343	0.4756	<0.003	0.0122	0.0305	<0.004	0.0077	0.0290	<0.006	0.0126	<0.01	0.1127
UG012184_rut8	59.28	40.02	0.0594	0.0492	0.0336	0.5554	<0.003	<0.003	0.0338	<0.004	<0.005	0.0439	<0.007	0.0045	<0.01	<0.01
UG012184_rut9	59.13	39.79	0.1319	0.0276	0.0117	0.1041	0.0038	<0.003	0.0990	0.0061	0.0087	0.0756	<0.007	0.0414	<0.01	0.0242
UG012186_rut1	59.04	39.74	0.0269	0.0056	0.0056	0.2190	0.0077	<0.003	0.3499	<0.004	0.0510	0.0624	<0.006	0.0319	<0.01	<0.01
UG012186_rut10	58.88	39.69	0.0989	0.0086	0.0048	0.2075	0.0079	0.0046	0.4454	<0.004	0.0396	0.0197	<0.006	0.0233	<0.01	<0.01
UG012186_rut11	59.05	39.88	0.0179	0.0082	0.0042	0.6070	0.0063	<0.003	0.2796	<0.004	0.0402	0.0348	<0.007	0.0184	<0.01	<0.01
UG012186_ruf12	59.03	39.72	0.0286	0.0026	0.0027	0.2772	0.0031	<0.003	0.3438	<0.004	0.0121	9600.0	<0.007	0.0587	<0.01	0.0129
UG012186_rut13	59.19	39.80	0.0152	0.0035	0.0025	0.2633	<0.003	<0.003	0.2989	0.0053	0.0473	0.0264	<0.007	0.0188	<0.01	<0.01
UG012186_rut14	58.91	39.62	0.0230	0.0047	0.0091	0.1159	0.0086	<0.003	0.4909	<0.004	0.0335	0.0272	<0.007	0.0366	<0.01	0.0174
UG012186_rut15	59.22	39.81	0.0193	0.0057	0.0028	0.1758	0.0095	<0.003	0.3578	<0.004	0.0455	0.0301	<0.006	0.0173	<0.01	<0.01
UG012186_ruf16	58.98	39.72	0.0206	0.0073	0.0039	0.3236	0.0047	<0.003	0.3353	<0.004	0.0373	0.0266	<0.007	0.0331	<0.01	<0.01
UG012186_rut17	29.08	39.73	0.0231	0.0112	0.0044	0.1387	0.0039	<0.003	0.4117	0.0045	0.0310	0.0330	<0.006	0.0516	<0.01	<0.01
UG012186_rut18	59.12	39.73	0.0254	0.0082	0.0037	0.1215	<0.003	<0.003	0.3943	<0.004	0.0400	0.0226	<0.007	0.0195	<0.01	<0.01
UG012186_rut19	58.85	39.71	0.0551	0.0491	0.0267	0.2666	0.0095	0.0053	0.3854	<0.004	0.0546	0.0211	<0.007	0.0249	<0.01	0.0160
UG012186_rut2	29.07	39.68	0.0189	<0.002	<0.001	0.1121	<0.003	<0.003	0.4345	<0.004	0.0221	0.0157	<0.007	0.0129	<0.01	<0.01
UG012186_rut20	58.91	39.68	0.0465	0.0101	0.0020	0.2526	9900.0	<0.003	0.3446	<0.004	0.0074	0.0261	<0.007	0.0657	<0.01	0.0809
UG012186_rut21	58.81	39.61	0.0306	0.0415	0.0216	0.1879	<0.003	<0.003	0.3838	<0.004	0.0534	0.0288	<0.007	0.0248	<0.01	<0.01
UG012186_ruf22	58.89	39.61	0.0434	0.0223	0.0182	0.0640	0.0054	0.0033	0.4275	<0.004	0.0493	0.0349	<0.006	0.0245	<0.01	<0.01
UG012186_ruf23	59.04	39.72	0.0214	0.0029	0.0023	0.2256	<0.003	<0.003	0.3706	<0.004	0.0326	0.0274	<0.007	0.0422	<0.01	<0.01
UG012186_rut24	50.94	36.46	2.2092	0.0165	0.0034	0.0519	0.0111	0.0165	1.3177	0.0062	0.0627	0.0153	<0.007	0.0276	<0.01	<0.01
UG012186_rut3	58.88	39.62	0.0223	0.0031	0.0020	0.3099	0.0034	<0.003	0.3141	0.0042	0.0321	0.0591	0.0071	0.0418	<0.01	<0.01
*All el	*All elements are in wt. % (EMPA)	e in wt.	% (EMPA	<u>.</u>												

Appendix C: Eastern Sunda arc rutile trace element chemistry (EMPA)

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Analysis ID	Ti	0	ΙΑ	Si	Ca	۸	Cr	Mn	Fe	Cu	Zr	Nb	Мо	Sn	Та	W
UG012186_rut4	58.86	39.61	0.0391	0.0159	0.0047	0.1321	<0.003	<0.003	0.3919	<0.004	0.0395	0.0535	<0.007	0.0370	<0.01	0.0164
UG012186_rut5	58.99	39.73	0.0170	0.0056	0.0022	0.2767	0.0141	<0.003	0.3980	<0.004	0.0405	0.0387	<0.006	0.0428	<0.01	<0.01
UG012186_rut6	59.07	39.71	0.0272	0.0043	0.0051	0.1157	<0.003	<0.003	0.4177	<0.004	0.0436	0.0368	<0.007	0.0178	<0.01	<0.01
UG012186_rut7	58.93	39.59	0.0183	0.0051	0.0031	0.0657	<0.003	<0.003	0.4469	<0.004	0.0284	0.0420	<0.007	0.0302	<0.01	<0.01
UG012186_rut8	58.96	39.69	0.0256	<0.002	0.0017	0.2013	<0.003	<0.003	0.4486	<0.004	0.0379	0.0370	<0.006	0.0763	<0.01	<0.01
UG012186_rut9	59.14	39.75	0.0192	0.0054	0.0022	0.1337	0.0056	<0.003	0.3778	<0.004	0.0377	0.0158	<0.006	0.0373	<0.01	<0.01
UG012190_rut1	58.91	39.71	0.0428	0.0103	0.0016	0.0773	0.0053	<0.003	0.5599	<0.004	0.0340	0.1753	<0.007	0.0279	<0.01	0.0278
UG012190_rut10	59.11	39.75	0.0435	0.0111	0.0031	<0.02	0.0036	0.0042	0.4852	<0.004	0.0287	0.0393	0.0169	0.0398	<0.01	0.0332
UG012190_rut11	58.97	39.74	0.0152	0.0061	0.0025	0.0974	0.0073	<0.003	0.6531	<0.004	0.0243	0.1149	0.0093	0.0441	<0.01	0.0219
UG012190_ruf12	56.94	39.31	0.0418	0.0073	0.0016	0.1280	0.0078	<0.003	1.2253	0.0054	0.0454	1.8015	<0.007	0.0358	<0.01	<0.01
UG012190_rut13	59.03	39.79	0.0792	0.0113	0.0029	0.0323	0.0034	<0.003	0.4500	<0.004	0.0197	0.1909	0.0109	0.0722	<0.01	0.0260
UG012190_ruf14	58.98	39.66	0.0189	0.0107	<0.001	0.0390	0.0050	0.0035	0.5664	0.0053	0.0303	0.0362	0.0076	0.0315	<0.01	0.0158
UG012190_rut15	58.99	39.74	0.0448	0.0134	0.0015	0.0317	0.0064	<0.003	0.6136	<0.004	0.0379	0.0787	0.0131	0.0614	<0.01	0.0278
UG012190_rut16	29.07	39.73	0.0397	0.0111	0.0015	0.0382	<0.003	<0.003	0.4825	0.0178	0.0080	0.0473	0.0132	0.0931	<0.01	0.0199
UG012190_rut17	58.96	39.71	0.0443	0.0098	<0.001	0.0324	0.0038	<0.003	0.6131	0.0076	0.0399	0.1072	<0.007	0.0388	<0.01	0.0115
UG012190_rut18	58.91	39.72	0.0231	0.0078	0.0019	0.1812	<0.003	0.0036	0.5830	0.0082	0.0109	0.1236	<0.007	0.0328	<0.01	0.0354
UG012190_rut19	59.16	39.83	0.0211	0.0066	<0.001	0.0991	0.0062	<0.003	0.5352	<0.004	0.0314	0.0644	0.0129	0.0573	<0.01	0.0567
UG012190_rut2	58.97	39.70	0.0225	0.0089	0.0021	0.0726	0.0044	<0.003	0.6228	<0.004	0.0295	0.0705	0.0088	0.0377	<0.01	0.0244
UG012190_rut20	29.08	39.73	0.0340	0.0083	0.0045	0.0577	0.0051	<0.003	0.5059	<0.004	0.0393	0.0214	0.0144	0.0396	<0.01	0.0358
UG012190_rut21	59.11	39.79	0.0410	0.0081	0.0017	0.0706	0.0074	<0.003	0.5524	<0.004	0.0325	0.0596	0.0113	0.0513	<0.01	0.0194
UG012190_rut22	58.89	39.77	0.0201	0.0134	0.0016	0.0406	<0.003	<0.003	0.6888	0.0075	0.0416	0.3025	0.0111	0.0445	<0.01	0.0195
UG012190_rut23	58.72	39.63	0.0388	0.0094	0.0021	0.1036	0.0072	0.0038	0.5715	<0.004	0.0096	0.1797	0.0217	0.0466	<0.01	0.1256
UG012190_rut24	59.28	39.87	0.0351	0.0108	<0.001	0.0387	0.0092	<0.003	0.4857	<0.004	0.0137	0.0500	0.0091	0.0796	<0.01	0.0332
UG012190_rut25	59.22	39.83	0.0337	0.0113	<0.002	0.0578	0.0074	<0.003	0.4429	0.0050	0.0246	0.0946	0.0081	0.0387	<0.01	0.0109
UG012190_rut26	58.98	39.79	0.0281	0.0112	0.0101	0.1539	0900'0	<0.003	0.5848	0.0124	0.0142	0.1486	0.0110	0.0762	<0.01	0.0244
UG012190_rut27	58.86	39.63	0.0268	0.0116	0.0018	0.0687	0.0044	<0.003	0.5795	<0.004	0.0189	0.1036	0.0139	0.0400	<0.01	0.0142
UG012190_rut28	58.85	39.67	0.0298	0.0130	0.0031	0.1126	0.0075	<0.003	0.6018	<0.004	0.0408	0.0678	0.0093	0.1213	<0.01	0.0213
UG012190_rut29	59.11	39.82	0.0634	0.0108	0.0016	0.1340	0.0054	<0.003	0.4969	<0.004	0.0218	0.0586	<0.006	0.0558	<0.01	<0.01
UG012190_rut3	58.99	39.76	0.0306	0.0089	0.0019	0.0555	<0.003	<0.003	0.7053	<0.004	0.0396	0.0691	0.0319	0.0746	<0.01	<0.01
UG012190_rut30	58.91	39.69	0.0356	0.0135	0.0017	0.0446	<0.003	<0.003	0.5328	0.0084	0.0543	0.1549	<0.007	0.0355	<0.01	0.0568
UG012190_rut31	58.83	39.73	0.0636	0.0097	0.0017	0.0563	0.0040	<0.003	0.5092	0.0045	0.0410	0.3050	0.0148	0.0683	<0.01	0.0267
UG012190_rut32	58.51	39.55	0.0148	0.0085	<0.001	0.2180	0900'0	<0.003	0.6827	<0.004	0.0199	0.2433	0.0123	0.0560	<0.01	0.0241
UG012190_rut4	58.91	39.66	0.0203	0.0060	0.0025	0.0922	0.0093	<0.003	0.5805	<0.004	0.0334	0.0427	0.0213	0.0588	<0.01	0.0365
UG012190_rut5	58.94	39.74	0.0178	0.0100	0.0025	0.1116	0.0054	<0.003	0.5703	<0.004	0.0265	0.1986	<0.007	0.0486	<0.01	0.0190
UG012190_rut6	59.14	39.82	0.0340	0.0000	<0.001	0.0982	0.0047	<0.003	0.4942	<0.004	0.0056	0.1130	0.0130	0.0558	<0.01	0.0248
UG012190_rut7	59.18	39.87	0.0553	0.0087	0.0017	0.0681	0.0047	<0.003	0.5021	0.0054	0.0254	0.1189	0.0110	0.1054	<0.01	0.0303
UG012190_rut8	59.13	39.75	0.0330	0.0124	0.0016	0.0380	0.0052	<0.003	0.5114	0.0044	0.0108	0.0308	0.0127	0.0343	<0.01	0.0107
UG012190_rut9	58.97	39.74	0.0231	0.0085	V0.001	<0.02	0.0032	<0.003	0.5922	<0.004	0.0205	0.2705	0.0083	0.0812	0.00	0.0281
00012193_1411	20.92	39.73	0.0213	0.0033	0.00	0.4233	0.0031	50.003	0.4147	0.0000	0.0173	0.0	,0000 ,0000	0.010	0.0	0.07
UG012193_ruff10	28.94	30.63	0.0319	0.0079	0.0058	0.2816	0.0061	<0.003	0.37.04	40.004	0.0120	0.01/4	<0.007	0.0179	0.00	50.01
UG012193 ntH2	58.84	39.86	0.0180	0.0092	<0.000	0.8116	0.0034	<0.000	0.4076	40 00 v	0.0188	0.0182	40 00e	0.0113	\$0.07	0.0200
UG012193 ruf13	58.90	39.70	0.0260	0.0052	0.0057	0.3498	<0.003	<0.003	0.4550	0.0065	0.0166	0.0200	900'0>	0.0134	×0.01	0.0123
UG012193 rut14	58.85	39.78	0.0244	0.0029	0.0028	0.6593	0.0056	<0.003	0.3600	<0.004	0.0240	0.0165	<0.007	0.0268	40.01	<0.01
UG012193_ruf15	58.91	39.73	0.0239	0.0110	0.0060	0.3971	0.0033	<0.003	0.3981	<0.004	0.0382	0.0223	<0.006	0.0136	<0.01	<0.01
UG012193_ruf16	58.73	39.59	0.0320	0.0065	0.0034	0.3302	<0.003	<0.003	0.4431	0.0078	0.0346	0.0183	<0.006	0.0236	<0.01	0.0133
UG012193_rut17																
UG012193_rut18																
UG012193_rut2	59.15	39.96	0.0266	0.0043	0.0056	0.5991	0.0038	<0.003	0.3584	<0.004	0.0198	0.0227	<0.007	0.0177	<0.01	0.0286
UG012193_rut3	58.75	39.58	0.0321	0.0199	0.0061	0.2057	<0.003	<0.003	0.4544	<0.004	0.0840	0.0197	<0.006	0.0140	<0.01	0.0102
*All el	*All elements are in wt. % (EMP.	e in wt. <sup>6</sup>	% (EMPA)	<u>.</u>												

Appendix C: Eastern Sunda arc rutile trace element chemistry (EMPA)

Analysis ID	F	0	IA	ïS	Ca	>	Ċ	Mn	Fe	Cu	Zr	QN.	Мо	S	Та	×
UG012193 rut4	58.92	39.72	0.0218	0.0280	0.0104	0.2841	<0.003	<0.003	0.4601	<0.004	0.0543	0.0159	<0.006	0.0057	<0.01	<0.01
UG012193_rut5	58.96	39.76	0.0180	0.0123	0.0041	0.3637	<0.003	<0.003	0.4523	<0.004	0.0276	0.0280	<0.007	0.0298	<0.01	0.0478
UG012193_rut6	58.85	39.82	0.0222	0.0053	0.0033	0.6976	0.0056	0.0040	0.3996	0.0064	0.0356	0.0187	<0.007	0.0236	<0.01	0.0136
UG012193_rut7	58.90	39.70	0.0240	0.0069	0.0079	0.3297	0.0032	<0.003	0.4526	<0.004	0.0500	0.0154	<0.007	0.0257	<0.01	0.0135
UG012193_rut8	58.98	39.80	0.0408	0.0044	0.0030	0.4501	0.0039	<0.003	0.4019	<0.004	0.0355	0.0137	<0.007	0.0178	<0.01	<0.01
UG012193_rut9	59.05	39.74	0.0171	0.0050	0.0035	0.1915	0.0049	<0.003	0.5198	<0.004	09000	0.0221	<0.006	0.0035	<0.01	0.0576
UG012195_rut1	59.47	39.79	0.0051	<0.002	<0.001	<0.02	<0.003	<0.003	0.0889	<0.004	0.0328	0.0409	<0.006	<0.002	<0.01	<0.01
UG012195_rut10	29.50	39.94	0.0667	<0.002	0.0020	0.0643	<0.003	<0.003	0.2971	0.0061	0.0182	0.0232	<0.007	0.0078	<0.01	<0.01
UG012195_rut11	58.42	39.66	0.0893	0.1922	0.0691	0.4515	0.0089	0.0128	0.0623	<0.004	0.1128	0.0459	<0.007	0.0147	<0.01	0.0376
UG012195_rut12																
UG012195_rut13																
UG012195_rut14																
UG012195_rut15																
UG012195_rut2	59.17	39.63	0.0121	0.0031	0.0024	<0.02	<0.003	<0.003	0.1453	<0.004	0.0742	0.0368	<0.006	<0.002	<0.01	<0.01
UG012195_rut3	59.14	39.82	0.2169	0.0069	<0.001	0.2025	<0.003	<0.003	0.0138	<0.004	0.0418	0.0103	<0.007	0.0048	<0.01	<0.01
UG012195_rut4	59.37	39.76	0.0206	0.0044	<0.001	0.0339	<0.003	<0.003	0.1138	<0.004	0.0289	0.0334	<0.007	<0.002	<0.01	<0.01
UG012195_rut5	59.28	39.69	0.0131	<0.002	0.0023	0.0210	<0.003	<0.003	0.1620	<0.004	0.0312	0.0358	<0.006	<0.002	<0.01	<0.01
UG012195_rut6	59.43	39.82	0.0308	0.0041	0.0016	0.0303	<0.003	0.0109	0.1161	<0.004	0.0294	0.0357	<0.006	0.0062	<0.01	<0.01
UG012195_rut7	59.48	39.99	0.1948	0.0052	0.0023	0.0831	<0.003	<0.003	0.0287	<0.004	0.0245	0.0382	<0.006	0.0043	<0.01	<0.01
UG012195_rut8	58.70	39.67	0.0550	0.0651	0.0168	0.5800	0.0073	<0.003	0.0491	<0.004	0.0374	0.0379	<0.007	0.0114	<0.01	0.0205
UG012195_rut9	59.54	39.83	0.0074	0.0036	<0.001	<0.02	<0.003	<0.003	0.0723	<0.004	0.0237	0.0247	<0.007	<0.002	<0.01	<0.01
UG012197_rut1	58.24	39.55	0.1383	0.3266	0.0786	<0.02	<0.003	0.0073	0.3230	0.0059	0.0074	0.0169	<0.007	<0.002	<0.01	0.0580
UG012197_rut10																
UG012197_rut2	58.74	39.58	0.0246	0.0716	0.0151	0.0438	<0.003	0.0068	0.5616	0.0137	0.0088	0.0242	<0.006	0.0757	<0.01	0.0439
UG012197_rut3	58.12	39.31	0.0258	0.0814	0.0047	<0.02	<0.003	0.0069	1.1932	0.0109	<0.005	0.0094	<0.007	0.0105	<0.01	0.0191
UG012197_rut4	58.80	39.56	0.0157	0.0428	0.0066	0.0322	<0.003	0.0039	0.5333	0.0062	0.0144	0.0507	<0.007	0.0527	<0.01	0.0137
UG012197_rut5	58.54	39.45	0.0156	0.0205	0.0029	0.0468	<0.003	<0.003	0.6434	<0.004	0.0727	0.0578	0.0258	0.0940	<0.01	0.0432
UG012197_rut6	59.07	39.72	0.0161	0.0195	0.0021	0.0285	<0.003	<0.003	0.5657	0.0054	0.0126	0.0593	<0.007	0.0588	<0.01	<0.01
UG012197_rut7	58.77	39.67	0.0301	0.0643	0.0082	0.0272	<0.003	<0.003	0.8715	0.0126	0.0469	0.0226	<0.007	0.0541	<0.01	0.0145
UG012197_rut8	58.66	39.60	0.0124	0.0191	0.0025	0.0940	<0.003	<0.003	0.6835	0.0049	0.0454	0.0948	0.0124	0.1689	<0.01	0.1218
UG012197_rut9																
UG012198_rut1	59.16	39.86	0.0516	0.0048	0.0018	0.1684	0.0047	<0.003	0.5139	<0.004	0.0303	0.0620	<0.006	0.0174	<0.01	0.0168
UG012198_rut10	29.09	40.89	0.0208	0.0379	0.0037	0.2191	0.0201	0.0168	0.4333	<0.004	0.0159	0.0120	<0.006	0.0969	<0.01	0.0615
UG012198_rut11	58.79	39.67	0.0521	0.0309	0.0474	0.2193	0.0038	<0.003	0.4388	0.0098	0.0325	0.0487	<0.006	0.0443	<0.01	0.0459
UG012198_rut12	29.06	39.80	0.0293	0.0041	0.0017	0.2319	0.0085	<0.003	0.4428	<0.004	0.0751	0.0067	<0.007	0.1264	<0.01	0.0265
UG012198_rut13	59.03	39.79	0.0554	0.0088	0.0099	0.1400	0.0077	<0.003	0.5589	<0.004	0.0754	0.0188	<0.006	0.0846	<0.01	<0.01
UG012198_rut14	59.17	39.81	0.0452	0.0075	0.0023	0.0655	0.0198	<0.003	0.4959	<0.004	0.0145	0.0103	0.0079	0.0703	<0.01	0.0692
UG012198_ruf15	58.83	39.68	0.0285	0.0098	0.0028	0.1996	0.0043	<0.003	0.5636	<0.004	0.0339	0.1175	<0.007	0.0519	<0.01	0.0171
UG012198_rut16	59.28	39.88	0.0404	0.0109	0.0046	0.2007	0.0187	<0.003	0.3974	0.0045	0.0166	0.0113	<0.006	0.0097	<0.01	<0.01
UG012198_rut17	59.19	39.82	0.0412	0.0061	0.0023	0.0761	0.0098	<0.003	0.4680	<0.004	0.0609	0.0416	<0.007	0.0559	<0.01	<0.01
UG012198_rut18	29.07	39.87	0.0423	0.0134	<0.001	0.3947	0.0099	<0.003	0.3720	<0.004	0.0544	0.0088	<0.007	0.0761	<0.01	0.0500
UG012198_ruf19	58.83	39.70	0.0634	0.0053	0.0027	0.1844	0.0055	<0.003	0.5937	<0.004	0.0722	0.0408	<0.006	0.1036	<0.01	0.0172
UG012198_rut2	29.62	40.12	0.0362	0.0070	0.0023	0.1707	0.0033	<0.003	0.3999	<0.004	0.0383	0.0343	<0.006	0.0129	<0.01	<0.01
UG012198_rut20	58.91	39.67	0.0211	<0.002	<0.001	0.1063	0.0068	<0.003	0.6190	<0.004	0.0437	0.0543	<0.007	0.0534	<0.01	0.0281
UG012198_rut21	58.86	39.75	0.0180	0.0040	<0.001	0.2159	0.0059	<0.003	0.6729	<0.004	0.0201	0.0124	<0.007	0.0937	<0.011	0.3114
UG012198_rut22	58.90	39.68	0.0488	0.0138	0.0017	0.1424	0.0075	<0.003	0.4990	0.0072	0.0640	0.0093	<0.006	0.1115	<0.01	0.0225
UG012198_rut23	59.37	39.99	0.0333	0:0030	<0.001	0.2930	0.0034	<0.003	0.3616	<0.004	0.0434	0.0558	<0.007	0.0217	<0.01	0.0236
UG012198_rut24	58.96	39.71	0.0568	0.0166	0.0015	0.0764	0.0045	<0.003	0.5400	<0.004	0.0583	0.0218	<0.007	0.0685	<0.01	<0.01
UG012198_rut25	58.59	39.53	0.0397	0.0099	0.0018	0.1509	0.0099	<0.003	0.5889	<0.004	0.0073	<0.006	<0.006	0.0721	<0.011	0.3087
UG012198_rut26	58.44	39.64	0.0479	0.1394	0.0045	0.3036	<0.003	0.0035	0.4363	<0.004	0.2276	0.0592	<0.006	0.0293	<0.01	0.0515
*All e	*All elements are in wt. %	e in wt.	(EMP													
1 1 1 1 1 1 1		:		<u>.</u>												

Appendix C: Eastern Sunda arc rutile trace element chemistry (EMPA)

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Analysis ID	F	0	¥	Si	Ca	>	င်	Mn	Fe	Cu	Zr	qN	Мо	S	Та	8
UG012198_rut27	90.09	39.73	0.0284	0.0048	0.0099	0.2382	0.0149	0.0032	0.3614	<0.004	0.0196	0.0127	<0.007	0.0164	<0.01	<0.01
UG012198_rut28	60.59	40.85	0.0438	0.0089	0.0020	0.3606	0.0066	<0.003	0.3368	0.0444	0.0141	<0.006	<0.007	0.1217	<0.01	0.0294
UG012198_ru29	58.81	39.69	0.0308	0.0098	<0.001	0.2563	0.0034	<0.003	0.5381	<0.004	0.0246	0.0075	<0.006	0.1336	<0.01	0.1437
UG012198_rut3	58.79	39.66	0.0417	0.0175	0.0025	0.1770	0.0142	<0.003	0.4290	0.0043	0.0131	0.1677	<0.007	0.0887	<0.01	0.0637
UG012198_rut30	58.95	39.78	0.0258	0.0091	0.0041	0.4512	0.0076	0.0035	0.3695	<0.004	0.0226	0.0560	0.0074	0.0209	<0.01	<0.01
UG012198_rut4	58.96	39.76	0.0350	0.0051	0.0015	0.2720	0.0074	<0.003	0.4251	<0.004	0.0128	0.0489	<0.007	0.0564	<0.01	0.1608
UG012198_rut5	58.86	39.71	0.0438	<0.002	0.0015	0.1961	0.0126	<0.003	0.6179	<0.004	0.0649	0.0325	<0.007	0.0980	<0.01	0.0263
UG012198_rut6	59.01	39.75	0.0309	0.0064	<0.001	0.2197	0.0074	0.0034	0.4223	<0.004	0.0068	0.0131	<0.006	0.0917	<0.01	0.1187
UG012198_rut7	58.84	39.70	0.0444	0.0037	0.0031	0.3583	6900.0	<0.003	0.4123	<0.004	0.0253	0.0156	<0.007	0.0801	<0.01	0.0939
UG012198_rut8	58.92	39.70	0.0381	0.0045	<0.001	0.2195	0.0082	<0.003	0.4126	<0.004	0.0441	0.0247	>0.006	0.1036	<0.01	0.0847
UG012198_rut9	29.06	39.78	0.0227	0.0065	0.0027	0.1714	0.0046	<0.003	0.5836	<0.004	0.0075	0.0114	<0.006	0.0893	<0.01	0.0721
BHF-01 rut1	27.57	39.35	0.0276	0.0095	0.0027	0.7399	0.0638	<0.003	0.6897	<0.005	0.0248	0.0329	0.0100	0.0253	<0.011	0.9845
BHF-01 rut4	58.58	39.67	0.0213	0.0172	0.0021	0.5672	0.0171	<0.003	0.5069	<0.004	0.0162	0.0320	0.0375	0.0213	<0.01	0.1551
BHF-01 rut5	59.15	40.06	0.0061	0.0085	0.0029	0.6849	0.0333	<0.003	0.4224	<0.004	0.0244	0.0503	0.0280	0.0215	<0.01	0.1063
BHF-01 rut6	58.77	39.83	0.0107	0.0079	0.0029	0.5999	0.0678	0.0034	0.5131	<0.004	0.0218	0.0303	0.0201	0.0209	<0.011	0.2254
BHF-01 rut8	58.65	39.68	0.0038	0.0177	0.0054	0.4786	0.0441	<0.003	0.4999	<0.004	0.0411	0.0220	0.0358	0.0176	<0.01	0.1364
BHF-01 rut11	58.63	39.66	0.0082	0.0107	0.0075	0.5590	0.0372	<0.003	0.5080	<0.004	0.0124	0.0454	0.0190	0.0182	<0.01	0.0268
BHF-01 rut12	58.79	39.75	0.0110	0.0170	0.0018	0.4898	0.0086	<0.003	0.4931	<0.004	0.0511	0.0084	0.0466	0.0185	<0.01	0.0650
BHF-01 rut13	58.87	39.84	0.0066	0.0121	0.0036	0.6733	0.0373	<0.003	0.3970	<0.004	0.0217	0.0111	0.0100	0.0237	<0.01	0.0815
BHF-01 rut14	58.46	39.67	0.0047	0.0085	0.0063	0.6773	0.0434	<0.003	0.4264	<0.004	0.0315	0.0595	0.0258	0.0194	<0.011	0.3303
BHF-01 rut15	58.69	39.78	0.0185	0.0124	0.0079	0.5787	0.0418	<0.003	0.4377	<0.004	0.0283	0.1053	0.0200	0.0233	<0.011	0.2298
BHF-01 rut16	58.46	39.61	0.0111	0.0090	0.0029	0.4274	0.0422	<0.003	0.6332	<0.004	0.0343	0.0110	<0.007	0.0365	<0.011	0.4230
BHF-01 rut17	58.57	39.58	0.0116	0.0111	0.0066	0.2407	0.0558	<0.003	0.6332	<0.004	0.0185	0.0406	<0.007	0.0370	<0.011	0.2815
BHF-01 rut18	58.85	39.76	0.0169	0.0123	0.0041	0.5048	0.0185	<0.003	0.3869	<0.004	0.0102	0.0295	0.0182	0.0178	<0.01	0.0849
BHF-01 rut19	58.75	39.85	0.0276	0.0089	0.0018	0.6813	0.0447	<0.003	0.4515	<0.004	0.0259	0.0159	0.0234	0.0199	<0.011	0.2662
BHF-01 rut20	58.68	39.76	0.0133	0.0089	0.0033	0.5872	0.0253	<0.003	0.4848	<0.004	0.0296	0.0467	0.0251	0.0172	<0.011	0.2533
BHF-01 rut21	58.74	39.64	0.0105	0.0124	0.0018	0.3123	0.0379	<0.003	0.5604	<0.004	0.0126	0.0210	0.0104	0.0191	<0.01	0.0961
BHF-01 rut22	58.77	39.76	0.0087	0.0093	0.0031	0.4855	0.0354	<0.003	0.4711	<0.004	0.0115	0.0819	0.0086	0.0195	<0.01	0.2045
BHF-01 rut23	58.98	39.92	0.0177	0.0083	0.0038	0.6242	0.0415	<0.003	0.4604	<0.004	0.0080	0.0106	0.0197	0.0202	<0.01	0.0726
BHF-01 rut24	58.70	39.66	0.0109	0.0148	0.0022	0.4872	0.0354	<0.003	0.4257	<0.004	0.0415	0.0140	0.0305	0.0132	<0.01	0.0519
BHF-01 rut25	58.92	39.80	0.0119	0.0111	0.0022	0.5165	0.0264	<0.003	0.4847	<0.004	0.0133	0.0074	0.0090	0.0137	<0.01	0.0272
BHF-01 rut26	58.49	39.60	0.0087	0.0064	0.0046	0.4279	0.0495	<0.003	0.6376	<0.004	0.0307	<0.006	0.0500	0.0105	<0.011	0.2589
BHF-01 rut27	58.26	39.53	0.0111	0.0076	0.0081	0.3495	0.0422	<0.003	0.7491	<0.004	0.0322	0.0697	0.0189	0.0182	<0.011	0.5448
BHF-01 rut28	59.02	39.96	0.0146	0.0085	0.0036	0.5253	0.0464	<0.003	0.5078	<0.004	0.0130	0.0257	0.0135	0.0374	<0.011	0.2523
BHF-01 rut29	58.70	39.74	0.0181	0.0069	0.0036	0.6019	0.0379	<0.003	0.4601	<0.004	0.0291	0.0169	0.0148	0.0174	<0.01	0.1563
BHF-01 rut30	58.94	39.82	0.0129	0.0043	0.0026	0.5650	0.0394	<0.003	0.4819	<0.004	0.0140	0.0161	0.0185	0.0239	<0.01	0.0229
BHF-01 rut31	58.58	39.75	0.0185	0.0237	0.0024	0.6107	0.0224	<0.003	0.4082	<0.004	0.0196	0.1652	0.0237	0.0188	<0.01	0.2387
BHF-01 rut32	59.13	39.84	0.0065	0.0082	0.0052	0.2391	0.0063	<0.003	0.5929	<0.004	0.0174	0.0352	0.0082	0.0168	<0.01	0.0172
BHF-01 rut33	28.67	39.67	0.0113	0.0104	0.0032	0.4235	0.0228	<0.003	0.5979	<0.004	0.0265	0.0130	0.0198	0.0244	<0.01	0.1660
BHF-01 rut34	58.50	39.61	0.0054	0.0073	0.0021	0.4485	0.0382	<0.003	0.8804	<0.004	0.0164	9600.0	0.0164	0.0124	<0.01	0.0655
BHF-01 rut35	58.69	39.71	0.0117	0.0074	0.0149	0.5648	0.0171	<0.003	0.4696	<0.004	0.0210	0.0122	0.0087	0.0181	<0.01	0.1950
BHF-01 rut36	58.34	39.72	0.0156	0.0086	0.0077	0.7455	0.0719	<0.003	0.5530	<0.004	0.0203	0.0113	0.0131	0.0260	<0.011	0.6331
BHF-01 rut37	58.91	39.75	0.0071	0.0116	0.0041	0.3014	0.0077	<0.003	0.5660	<0.004	0.0243	0.0387	0.0068	0.0208	<0.01	0.1290
BHF-01 rut38	58.88	39.82	0.0050	0.0102	0.0027	0.5590	0.0047	<0.003	0.5149	<0.004	0.0342	0.0407	0.0231	0.0132	<0.01	0.0270
BHF-01 rut39	28.67	39.80	0.0189	0.0073	0.0151	0.6552	0.0449	<0.003	0.4478	<0.004	0.0257	0.0670	0.0189	0.0243	<0.011	0.2669
BHF-01 rut40	58.57	39.62	0.0138	0.0097	0.0285	0.3769	0.0360	<0.003	0.5776	<0.004	0.0418	0.0471	0.0233	0.0149	<0.01	0.1985
BHF-04 rut2	58.80	39.60	0.0044	0.0098	0.0125	0.3285	0.0328	<0.003	0.3065	<0.004	<0.005	<0.006	>0.006	0.0408	<0.01	0.1122
BHF-04 rut3	57.05	38.77	0.0138	0.0300	1.0824	0.0388	<0.003	<0.003	0.5388	<0.004	<0.005	0.0141	<0.007	0.0164	<0.01	<0.01
BHF-04 rut4	26.92	38.82	0.0163	0.0431	0.0227	0.0659	<0.003	<0.003	1.1215	<0.005	0.0098	0.0122	<0.007	0.1683	<0.011	1.2454
BHF-04 rut5	58.49	39.47	0.0070	0.0051	0.0076	0.0536	<0.003	<0.003	0.7576	<0.004	<0.005	0.0098	<0.007	0.0601	<0.011	0.4880
*All e	*All elements are in wt. %	e in wt. '	(EMP	A).												
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Appendix C: Eastern Sunda arc rutile trace element chemistry (EMPA)

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Alialysis ID	=	>	₹	5	Š	>	5		Þ	5	17	2	OM	5	0	8
BHF-04 rut6	57.21	38.92	0.0127	0.0058	0.0475	0.0646	<0.003	<0.003	1.2449	<0.005	0.0208	0.0140	<0.007	0.0323	<0.011	1.1854
BHF-04 rut8	58.58	39.51	0.0219	0.0379	0.0194	0.0950	<0.003	<0.003	0.6042	<0.004	0.0068	0.0092	0.0072	0.1045	<0.011	0.2303
BHF-04 rut9	58.83	39.51	0.0035	0.0186	0.0077	0.0432	<0.003	<0.003	0.4979	<0.004	<0.005	<0.006	<0.007	0.0551	<0.01	<0.01
BHF-04 rut10	58.64	39.47	0.0076	0.0130	0.0057	0.0819	<0.003	<0.003	0.6017	<0.004	<0.005	0.0391	<0.006	0.0482	<0.01	0.1364
BHF-04 rut11	20.02	39.62	0.0042	0.0053	0.0027	0.0251	<0.003	<0.003	0.5532	<0.004	0.0139	0.0069	<0.007	0.0201	<0.01	0.0323
BHF-04 rut12	62.09	38.91	0.0000	0.0098	0.0050	0.0642	<0.003	<0.003	1.2145	<0.005	0.0200	0.0451	<0.007	0.1518	<0.011	1.2769
BHF-04 rut13	57.89	39.34	0.0062	0.0078	0.0107	0.2143	<0.003	<0.003	1.8411	<0.004	<0.005	<0.006	<0.007	0.0610	<0.01	0.0128
BHF-04 rut14	58.33	39.42	0.0059	0.0113	0.0051	0.1108	<0.003	<0.003	0.7301	<0.004	0.0067	0.0564	<0.007	0.1422	<0.011	0.4494
BHF-04 rut15	92.29	39.12	0.0073	0.0116	0.0049	0.0805	<0.003	<0.003	1.1465	<0.005	0.0107	0.0312	<0.007	0.1775	<0.011	0.8788
BHF-04 rut16	58.88	39.64	0.0182	0.0612	0.0288	0.0387	<0.003	0.0081	0.5099	<0.004	0.0107	0.0070	<0.007	0.0621	<0.01	0.0699
BHF-04 rut17	59.38	39.92	0.0072	0.0085	0.0077	0.0624	<0.003	<0.003	0.5778	<0.004	<0.005	0.0330	<0.007	0.0419	<0.01	0.0183
BHF-04 rut18	58.92	39.59	0.0084	0.0056	<0.001	0.0897	<0.003	<0.003	0.4912	<0.004	0.0103	0.0234	<0.007	0.0411	<0.01	0.0123
BHF-04 rut19	27.67	39.18	0.0099	0.0080	0.0046	0.1864	<0.003	<0.003	0.9702	<0.005	0.0109	0.0130	<0.007	0.0668	<0.011	0.9749
BHF-04 rut20	56.93	39.09	0.1201	0.3019	0.1040	0.1401	<0.003	0.0164	1.5840	<0.004	<0.005	0.0067	<0.007	0.0877	<0.01	0.0764
BHF-04 rut21	57.94	39.37	0.0053	0.0097	0.0073	0.0574	<0.003	<0.003	2.0392	0.0115	0.0058	0.0107	<0.006	0.0238	<0.01	0.0527
BHF-04 rut22	58.90	39.62	0.0031	0.0139	0.0059	0.0886	<0.003	<0.003	0.6153	<0.004	<0.005	<0.006	<0.006	0.0818	<0.01	0.0133
JEM-02 rut1	58.50	39.53	0.0051	0.0108	0.0104	0.1703	0.0047	<0.003	0.6846	<0.004	0.0316	0.0503	<0.007	0.1178	<0.011	0.3758
JEM-02 rut1	58.50	39.53	0.0051	0.0108	0.0104	0.1703	0.0047	<0.003	0.6846	<0.004	0.0316	0.0503	<0.007	0.1178	<0.011	0.3758
PCT-01 rut2	58.18	39.50	0.0112	0.0257	0.0946	0.3167	0.0100	<0.003	0.3906	<0.004	0.1909	0.4817	0.0084	0.0240	0.0146	<0.01
PCT-01 rut4	58.61	39.54	0.0139	0.0113	0.0028	0.0819	0.0071	<0.003	0.6250	<0.004	0.0205	0.2794	<0.007	0.0262	0.0184	<0.01
PCT-01 rut5	58.65	39.63	0.0134	0.0144	0.0095	0.3025	0.1406	<0.003	0.3271	<0.004	0.0115	0.0334	<0.007	0.3265	<0.01	0.0403
PCT-01 rut6	58.52	39.65	0.0792	0.2462	0.0417	<0.02	<0.003	0.0162	0.2012	<0.004	0.0284	0.0565	<0.007	<0.002	<0.011	0.3657
PCT-01 rut7																
PCT-01 rut8																
PCT-02 rut1	58.09	38.95	0.0157	0.0222	0.0104	<0.02	<0.003	0.0058	0.1739	<0.004	0.0960	0.0330	<0.007	0.0047	<0.01	<0.01
PCT-02 rut2	96.56	39.38	0.2792	0.9697	0.3661	<0.02	<0.003	0.0708	0.1898	<0.004	0.0626	0.0274	<0.006	<0.002	<0.01	<0.01
PCT-02 rut3	58.46	39.54	0.0548	0.2308	0.0877	<0.02	<0.003	0.0108	0.2611	<0.004	0.1126	0.0302	<0.007	0.0028	<0.01	<0.01
PCT-02 rut4	58.60	39.62	0.0671	0.2006	0.0629	<0.02	<0.003	0.0370	0.1912	<0.004	0.2365	0.0363	<0.007	<0.002	<0.01	<0.01
PCT-02 rut5	58.48	39.46	0.0420	0.1881	0.0916	<0.02	<0.003	0.0190	0.2365	<0.004	0.0526	0.0219	<0.007	<0.002	<0.01	<0.01
PCT-02 rut6	58.66	39.60	0.0543	0.1786	0.1270	0.0259	<0.003	0.0127	0.1985	<0.004	0.0520	0.0271	<0.007	<0.002	<0.01	<0.01
PCT-02 rut7	59.11	39.72	0.0184	0.0501	0.0911	<0.02	<0.003	<0.003	0.2936	<0.004	0.0540	0.0428	<0.007	<0.002	<0.01	<0.01
PCT-02 rut8	58.14	39.52	0.0905	0.3709	0.1688	<0.02	<0.003	0.0148	0.2863	<0.004	0.0567	0.0266	<0.007	<0.003	<0.01	<0.01
PCT-02 rut9	58.61	39.59	0.0438	0.1975	0.0825	<0.02	<0.003	0.0182	0.3185	<0.004	0.0814	0.0371	<0.006	0.0032	<0.01	<0.01
PCT-02 rut10	58.87	39.55	0.0201	0.0246	0.0495	0.0318	<0.003	<0.003	0.3871	<0.004	0.0528	0.0285	<0.007	<0.002	<0.01	<0.01
PCT-02 rut11	59.15	39.75	0.0156	0.0735	0.0296	<0.02	<0.003	0.0091	0.2813	<0.004	0.0898	0.0322	<0.007	0.0032	<0.01	<0.01
PCT-02 rut12	58.86	39.61	0.0140	0.0413	0.0590	<0.02	<0.003	0.0075	0.1965	<0.004	0.3731	0.0411	>0.006	<0.002	<0.01	<0.01
PCT-02 rut13	58.56	39.40	0.0369	0.0913	0.0319	0.0406	<0.003	0.0105	0.2452	<0.004	0.0755	0.0322	<0.007	0.0075	<0.01	<0.01
PC1-02 rut14	58.66	39.51	0.0287	0.1111	0.0643	\$0.05 \$0.05	<0.003	0.0065	0.3399	<0.004 0.004	0.0797	0.0394	<0.006	<0.002 0.0028	0.00	0.00
PCT 02 mit16	20.7	00:00	0.030	0.530	0.0000	20:00	00.00	0.0030	0.2630	00:00	0.0101	10.00	70.00	0.0020	5 5	5 6
PCT-02 rut17	59.22	39.76	0.0155	0.0185	0.0209	<0.02	<0.003	0.0053	0.4199	<0.004	0.0659	0.0321	<0.007	<0.0030	, vo.o.	0.0
PCT-02 rut19	58.59	39.53	0.0452	0.1725	0.0994	<0.02	<0.003	0.0090	0.2361	<0.004	0.0876	0.0343	<0.007	<0.002	<0.01	<0.01
PCT-02 rut20	57.37	39.46	0.1519	0.6853	0.2740	<0.02	<0.003	0.0555	0.1700	<0.004	0.0822	0.0257	<0.007	<0.002	<0.01	<0.01
PCT-02 rut21	58.65	39.39	0.0163	0.0357	0.0340	<0.02	<0.003	<0.003	0.2318	<0.004	0.1678	0.0289	<0.007	0.0093	<0.01	<0.01
PCT-02 rut22	58.56	39.50	0.0386	0.1706	0.0984	0.0254	<0.003	0.0084	0.2058	<0.004	0.0810	0.0312	<0.007	<0.002	<0.01	<0.01
PCT-02 rut23	56.43	39.26	0.2127	0.9986	0.2772	<0.02	<0.003	0.0472	0.2164	<0.004	0.1013	0.0251	<0.007	<0.002	<0.01	<0.01
PCT-02 rut24	58.68	39.60	0.0503	0.1889	0.0715	0.0306	<0.003	0.0088	0.2140	<0.004	0.0606	0.0212	<0.007	<0.002	<0.01	<0.01
PCT-02 rut25	57.40	39.30	0.1320	0.5627	0.2135	<0.02	<0.003	0.0193	0.2737	<0.004	0.0669	0.0395	<0.007	<0.003	<0.01	<0.01
PCT-02 rut26	58.86	39.63	0.0334	0.1266	0.0565	<0.02	<0.003	0.0116	0.2463	<0.004	0.0511	0.0248	0.0067	<0.003	<0.01	0.0121
PCT-02 rut28	57.25	39.37	0.1485	0.7016	0.2455	<0.02	<0.003	0.0408	0.1637	<0.004	0.0590	0.0245	<0.007	<0.002	<0.01	<0.01
*All e	*All elements are in wt. %	e in wt. 9	% (EMPA	<u>.</u>												

Appendix C: Eastern Sunda arc rutile trace element chemistry (EMPA)

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Analysis ID	ij	0	AI	Si	Ca	^	c	Mn	Fe	Cu	Zr	Nb	Мо	Sn	Та	Μ
PCT-02 rut29	59.65	40.15	0.0308	0.1131	0.0432	<0.02	<0.003	0.0084	0.2371	<0.004	0.0902	0.0298	<0.007	0.0048	<0.01	<0.01
PCT-02 rut30	58.45	39.50	0.0466	0.2138	0.1037	<0.02	<0.003	0.0122	0.3086	<0.004	0.0585	0.0302	<0.007	<0.002	<0.01	<0.01
PCT-02 rut31	58.17	39.43	0.0759	0.2779	0.1412	<0.02	<0.003	0.0161	0.2675	<0.004	0.0811	0.0272	<0.007	<0.002	<0.01	<0.01
PCT-02 rut32	58.27	39.52	0.0861	0.3031	0.1205	<0.02	<0.003	0.0211	0.2328	<0.004	0.0739	0.0349	<0.006	0.0026	<0.01	<0.01
PCT-02 rut33	56.33	39.15	0.2485	0.9292	0.3614	<0.02	<0.003	0.0583	0.1421	<0.004	0.0908	0.0245	<0.007	0:0030	<0.01	<0.01
PCT-02 rut34	58.88	39.58	0.0221	0.0631	0.0272	<0.02	<0.003	<0.003	0.3096	<0.004	0.0677	0.0470	<0.007	<0.002	<0.01	<0.01
PCT-02 rut36	59.45	40.03	0.0386	0.1285	0.0504	<0.02	<0.003	0.0079	0.2569	<0.004	0.0608	0.0348	<0.007	<0.002	<0.01	<0.01
SINA-02 rut1	55.03	38.07	0.2267	0.4377	0.0763	0.1819	0.0215	0.0671	1.1686	0.3092	0.0292	0.0610	<0.007	0.0244	<0.011	0.1800
SINA-02 rut3	27.77	39.03	0.1030	0.2200	0.0339	<0.02	<0.003	0.0371	0.1197	0.0265	0.0119	0.0457	<0.006	<0.002	<0.01	<0.01
SINA-02 rut4	55.48	37.85	0.2377	0.4192	0.0419	<0.02	<0.003	0.0525	0.0588	0.0621	0.0192	0.0599	<0.006	<0.002	<0.01	<0.01
SINA-02 rut5	57.68	39.35	0.3359	0.3634	0.0453	<0.02	<0.003	0.0665	0.0982	0.0170	0.0333	0.0539	<0.007	<0.002	<0.01	<0.01
SINA-02 rut6	58.28	39.58	0.1273	0.3199	0.0390	0.0388	<0.003	0.0536	0.2815	0.0168	0.0358	0.0329	<0.007	<0.002	<0.01	<0.01
SINA-02 rut7																
SINA-02 rut9																
SINA-02 rut10																
SINA-01 rut1	58.54	39.72	0.1754	0.2930	0.0637	0.0522	<0.003	0.0349	0.0875	<0.004	0.0373	0.0597	<0.007	0.0023	<0.01	<0.01
SINA-01 rut2	56.17	39.57	0.4111	1.2850	0.2757	<0.02	<0.003	0.0890	0.0878	<0.004	0.0635	0.0589	<0.006	0.0035	<0.01	<0.01
SINA-01 rut3	58.82	39.75	0.1012	0.2258	0.0531	0.0253	<0.003	0.0281	0.0731	<0.004	0.0347	0.0599	<0.006	0.0094	<0.01	0.0131
SINA-01 rut4	58.05	39.92	0.2136	0.6919	0.1205	0.0246	<0.003	0.0602	0.1234	<0.004	0.0333	0.0733	<0.006	0.0050	<0.01	<0.01
SINA-01 rut5	57.10	39.61	0.3221	0.8839	0.1560	0.0543	<0.003	0.0665	0.0919	<0.004	0.0305	0.0543	<0.006	0.0061	<0.01	<0.01
SINA-01 rut6	59.03	40.03	0.1774	0.2689	0.0557	0.0672	<0.003	0.0380	0.0968	<0.004	0.0288	0.0579	<0.007	0.0067	<0.01	<0.01
SINA-01 rut8																
SINA-01 rut9																
SINA-01 rut10																
LB043_rut_1	59.22	40.07	0.0137	0.0268	0.0034	0.7515	0.0308	<0.003	0.2220	<0.004	0.0210	0.0171	<0.007	0.0469	<0.01	<0.01
LB043_rut_11	58.51	39.52	0.0113	0.0375	0.0029	0.2958	0.0389	<0.003	0.6147	<0.004	0.0247	0.0225	0.0076	0.0535	<0.01	0.0146
LB043_rut_12	58.67	39.54	0.0148	0.0389	0.0250	0.0353	<0.003	<0.003	0.6745	<0.004	0.1530	0.0237	<0.007	0.0033	<0.01	<0.01
LB043_rut_13	33.09	40.29	7.0265	9.7043	0.0287	0.3807	0.1555	0.0030	0.5628	0.0093	<0.006	0.0265	<0.007	0.0328	<0.01	1.6363
LB043_rut_14	58.62	39.41	0.0054	0.0403	0.0056	<0.02	<0.003	<0.003	0.4881	<0.004	0.1120	0.0216	<0.006	<0.002	<0.01	0.0119
LB043_rut_15	58.58	39.73	0.0166	0.0444	0.0043	0.6385	0.2142	<0.003	0.3507	<0.004	0.0423	0.0111	<0.006	0.0101	<0.01	<0.01
LB043_rut_16	58.49	39.84	0.1173	0.3178	0.0148	0.2722	0.1561	0.0112	0.2040	<0.004	0.0070	0.0094	<0.006	0.0391	<0.01	0.0515
LB043_rut_17	58.65	39.50	0.0099	0.0756	0.0193	<0.02	<0.003	<0.003	0.3967	<0.004	0.2610	0.0224	<0.007	<0.002	<0.01	0.0140
LB043_rut_18																
LB043_rut_2	53.90	37.98	0.6139	0.8802	0.0163	0.3886	0.0065	<0.003	0.5570	0.0068	0.0146	<0.006	<0.007	0.0713	<0.01	0.1465
LB043_rut_3	59.03	39.75	0.0030	0.0293	0.0023	0.1404	0.0093	<0.003	0.5475	<0.004	0.0474	0.0250	<0.007	0.0597	<0.01	0.0117
LB043_rut_4	20.50	36.86	1.1379	1.4692	0.0143	0.2454	0.0898	<0.003	0.6514	<0.004	0.0087	0.0312	<0.006	0.0127	<0.01	0.2435
LB043_rut_5	58.75	39.90	0.0126	0.0363	<0.001	0.9275	0.0277	<0.003	0.3850	<0.004	0.0298	<0.006	<0.007	0.0775	<0.01	<0.01
LB043_rut_6	58.97	39.82	0.0654	0.0668	0.0145	0.2818	0.0368	0.0051	0.3230	<0.004	0.0080	0.0443	<0.006	0.0562	<0.01	0.0145
LB043_rut_7	58.14	39.51	0.0166	0.0280	0.0026	1.0518	0.0426	<0.003	0.2144	<0.004	0.0371	0.0110	<0.006	0.0935	<0.01	<0.01
LB043_rut_8	58.54	39.83	<0.003	0.2726	0.0017	0.3472	0.0925	<0.003	0.4798	<0.004	0.0214	0.0182	<0.007	0.0847	<0.01	0.1080
LB043_rut_9	55.01	39.36	0.5641	1.4121	0:0030	0.3187	0.0891	<0.003	0.6881	<0.004	0.0232	<0.006	0.0070	0.1135	<0.01	0.2503
LB044_rut_1	58.62	39.48	0.0230	0.1586	0.1104	0.0421	0.0097	0.0088	0.1179	0.0058	0.0195	0.0154	<0.007	0.0034	<0.01	0.0161
LB044_rut_10	59.04	39.62	0.0208	0.0701	0.0112	0.0447	0.0072	0.0044	0.1777	<0.004	0.0823	0.0165	<0.007	0.0058	<0.01	<0.01
LB044_rut_12	59.04	39.77	0.0173	0.1052	0.0219	0.2539	9.0000	0.0043	0.1527	<0.004	0.0294	0.0113	<0.007	<0.002	<0.01	0.0120
LB044_rut_13	58.88	39.74	0.0046	0.0275	0.0042	0.2747	0.0063	<0.003	0.5001	<0.004	0.2162	0.0206	0.0141	0.0063	<0.01	0.0139
LB044_rut_14	57.42	39.42	0.0860	0.6256	0.2464	0.1127	0.0040	0.0296	0.2060	<0.004	0.0607	0.0109	<0.007	<0.002	<0.01	0.0940
LB044_rut_15	58.85	39.68	0.0336	0.1409	0.0916	0.0464	<0.003	0.0249	0.1101	<0.004	0.1335	0.0494	<0.006	0.0066	<0.01	0.0234
LB044_rut_16	58.73	39.83	0.0303	0.3236	0.3317	<0.02	<0.003	0.0107	0.0897	<0.004	0.0465	0.0206	<0.007	<0.002	<0.01	0.0469
LB044_rut_17	57.10	39.26	0.0967	0.2643	0.0546	0.0684	<0.003	0.0159	2.1469	0.0253	0.0725	0.0171	<0.007	0.0032	<0.01	0.0483
LB044_rut_2	58.18	39.45	0.0861	0.2623	0.0509	0.0555	0.0034	0.0216	0.4274	0.0223	0.0222	0.0148	<0.006	0.0034	<0.01	0.0397
*AII e	*All elements are in wt. % (EMPA)	e in wt. 🤇	% (EMPA	<u>;</u>												

Appendix C: Eastern Sunda arc rutile trace element chemistry (EMPA)

			1 1									,	,	,		
Analysis ID	Ti	0	ΑI	Si	Ca	^	c	Mn	Fe	Cu	Zr	Nb	Мо	Sn	Та	×
LB044_rut_3	58.78	39.63	0.0120	0.0244	0.0033	0.2808	0.0098	<0.003	0.4695	<0.004	0.0897	0.0188	0.0230	0.0071	<0.01	<0.01
LB044_rut_4	50.69	38.24	0.3328	1.4432	0.0474	0.3075	0.0085	0.0435	7.6055	0.0345	0.0000	0.0180	<0.007	<0.002	<0.01	0.2517
LB044_rut_5	26.97	38.31	0.0422	0.1419	0.0282	<0.019	<0.003	0.0055	0.0889	<0.004	0.0057	0.0073	<0.006	<0.002	<0.01	0.0204
LB044_rut_6	59.22	39.91	0.0480	0.1887	0.0743	<0.02	<0.003	0.0411	0.0875	0.0167	0.0137	<0.006	<0.007	0.0074	<0.01	0.0281
LB044_rut_7	58.89	39.78	0.0068	0.0229	0.0054	0.2430	0.0207	<0.003	0.5273	<0.004	0.1306	0.0510	0.0468	0.0072	<0.01	0.1321
LB044_rut_9	29.00	39.76	0.0053	0.0284	0.0025	0.2183	0.0166	<0.003	0.5396	<0.004	0.0819	0.0137	0.0075	0.0049	<0.01	<0.01
NEF-01_rut_10	58.30	39.49	0.0517	0.1578	0.0483	0.1251	0.0839	0.0053	0.5059	<0.004	0.0125	0.0440	0.0077	0.0463	<0.01	0.0483
NEF-01_rut_11	59.46	39.97	0.0055	0.0170	0.0028	0.1451	0.0119	<0.003	0.4900	<0.004	<0.005	0.0140	<0.006	0.0188	<0.01	<0.01
NEF-01_rut_12	58.91	39.70	0.0128	0.0316	0.0189	0.0905	0.0391	<0.003	0.6620	0.0077	0.0128	0.0381	0.0095	0.0174	<0.01	<0.01
NEF-01_rut_13																
NEF-01_rut_14	58.90	39.71	0.0094	0.0232	0.0076	0.2893	0.0954	<0.003	0.4304	<0.004	0.0076	0.0189	<0.007	0.0399	<0.01	<0.01
NEF-01_rut_15	58.93	39.74	0.0192	0.0532	0.0080	0.2218	0.0335	<0.003	0.4945	<0.004	0.0058	0.0375	<0.007	0.0213	<0.01	0.0331
NEF-01_rut_16	58.25	39.32	0.0064	0.0471	0.0045	0.1745	0.0435	<0.003	0.4954	<0.004	0.0378	0.0560	0.0117	0.0531	<0.01	0.1961
NEF-01_rut_17	59.20	39.79	0.0039	0.0137	0.0028	0.1141	0.0111	<0.003	0.5240	<0.004	<0.005	0.0279	<0.006	0.0180	<0.01	<0.01
NEF-01_rut_18	58.40	39.33	0.0131	0.0383	0.0045	0.1296	0.0113	0.0037	0.5803	0.0046	<0.005	0.0285	<0.006	0.0135	<0.01	<0.01
NEF-01_rut_19																
NEF-01_rut_2	58.88	39.62	0.0041	0.0493	0.0038	0.0799	0.0253	<0.003	0.4913	<0.004	0.0547	0.0543	<0.007	0.0223	<0.01	0.0313
NEF-01_rut_20	58.96	39.67	0.0037	0.0414	0:0020	0.1158	0.0032	<0.003	0.5155	<0.004	<0.005	0.0205	<0.007	0.0303	<0.01	<0.01
NEF-01_rut_21	58.60	39.47	0.0185	0.0352	0.0100	0.1374	0.0111	0.0119	0.5575	0.0052	0.0125	0.0303	<0.007	0.0183	<0.01	<0.01
NEF-01_rut_22	59.25	39.80	0.0033	0.0134	0.0133	0.0749	0.0106	<0.003	0.4691	<0.004	0.0091	0.0205	<0.007	0.0208	<0.01	<0.01
NEF-01_rut_23	59.21	39.85	0.0070	0.0378	0.0133	0.1567	0.0472	0.0148	0.4188	<0.004	<0.005	0.0364	<0.006	0.0173	<0.01	<0.01
NEF-01_rut_24	58.85	39.55	0.0029	0.0152	<0.001	0.0640	0.0311	<0.003	0.4799	<0.004	0.0249	0.0383	<0.006	0.0356	<0.01	<0.01
NEF-01_rut_3	58.74	39.58	0.0088	0.0293	0.0124	0.2183	0.0455	0.0086	0.4776	<0.004	0.0074	0.0372	<0.007	0.0319	<0.01	0.0188
NEF-01_rut_4	59.36	39.91	0.0060	0.0214	0.0057	0.0783	0.0034	<0.003	0.4990	<0.004	0.0377	0.0346	<0.006	0.0491	<0.01	<0.01
NEF-01_rut_5	59.74	40.23	0.0067	0.0629	0.0034	0.0489	0.0217	<0.003	0.5851	<0.004	0.0188	0.0351	<0.006	0.0380	<0.01	0.0129
NEF-01_rut_6	59.42	39.94	0.0071	0.0204	0.0019	0.0687	0.0128	<0.003	0.4985	<0.004	0.0246	0.0285	<0.006	0.0480	<0.01	<0.01
NEF-01_rut_7	55.59	38.70	0.0116	0.0983	0.0059	0.8044	0.1302	0.0070	3.3311	<0.004	0.0480	0.0362	<0.007	0.0288	<0.01	0.0240
NEF-01_rut_8	59.18	39.77	0.0060	0.0215	0.0035	0.1232	0.0186	<0.003	0.4087	<0.004	<0.005	0.0114	<0.007	0.0415	<0.01	<0.01
NEF-01_rut_9	59.35	39.89	0.0038	0.0219	0.0053	0.0882	0.0286	<0.003	0.4516	<0.004	0.0132	0.0197	<0.007	0.0407	<0.01	<0.01
NEF-03_rut_1	58.65	39.59	0.0488	0.0990	0.1218	0.0831	<0.003	0.0036	0.5493	<0.004	<0.005	9600.0	<0.007	0.0145	<0.01	<0.01
NEF-03_rut_10	58.77	39.77	0.0206	0.0668	0.0522	0.6355	0.0040	<0.003	0.2605	<0.004	0.0114	0.0085	<0.007	0.0118	<0.01	<0.01
NEF-03_rut_11	58.50	39.49	0.0061	0.0967	0.0357	0.1564	<0.003	0.0056	0.6952	<0.004	0.0168	0.0074	<0.007	0.0114	<0.01	<0.01
NEF-03_rut_12	58.74	39.71	0.0157	0.1022	0.0459	0.4802	0.0048	0.0062	0.2753	<0.004	<0.005	0.0080	0.0074	0.0152	<0.01	<0.01
NEF-03_rut_13	58.28	39.31	0.0067	0.0637	0.0538	0.2292	<0.003	0.0034	0.5350	<0.004	0.0079	<0.006	<0.007	0.0130	<0.01	<0.01
NEF-03_rut_14	58.98	39.74	0.0134	0.0574	0.0727	0.2324	<0.003	0.0046	0.3960	<0.004	0.0080	0.0110	<0.007	0.0167	<0.01	<0.01
NEF-03_rut_15	59.55	40.13	0.0089	0.0489	0.0880	0.2045	<0.003	<0.003	0.4918	0.0049	0.0104	0.0116	<0.007	0.0124	<0.01	<0.01
NEF-03_rut_16																
NEF-03_rut_2	57.90	39.77	0.3386	0.4031	0.0743	0.3022	<0.003	0.0061	0.4346	<0.004	0.0106	<0.006	<0.007	0.0121	<0.01	0.0614
NEF-03_rut_3	58.96	39.77	0.0170	0.1410	0.0092	0.0654	<0.003	<0.003	0.5312	<0.004	0.0113	0.0119	<0.007	0.0046	<0.01	0.0140
NEF-03_rut_4	59.34	40.06	0.0071	0.0479	0.0063	0.5110	<0.003	<0.003	0.3833	<0.004	0.0165	0.0059	<0.007	0.0105	<0.01	<0.01
NEF-03_rut_5	59.04	39.74	0.0154	0.0580	0.0354	0.1193	<0.003	0.0269	0.4813	<0.004	<0.005	0.0081	<0.007	0.0046	<0.01	<0.01
NEF-03_rut_6	58.35	39.75	0.0754	0.2657	0.2354	0.2862	<0.003	0.0106	0.5001	<0.004	0.0133	<0.006	<0.007	0.0121	<0.01	0.0356
NEF-03_rut_7	58.96	39.86	0.0273	0.0781	0.0581	0.4291	<0.003	<0.003	0.4425	<0.004	0.0073	0.0081	<0.007	0.0094	<0.01	<0.01
NEF-03_rut_8	54.59	39.48	1.0332	1.4215	0.0496	0.1885	<0.003	0.0161	1.0253	<0.004	<0.005	<0.006	<0.007	<0.002	<0.01	0.2227
NEF-03_rut_9	58.68	39.70	0.0092	0.0905	0.0836	0.4934	0.0047	<0.003	0.3587	<0.004	0.0158	<0.006	<0.006	0.0103	<0.01	<0.01
SEF-02_rut_1	58.76	39.54	0.0028	0.0278	0.0109	0.0770	0.1294	<0.003	0.4826	<0.004	<0.005	<0.006	<0.006	0.0337	<0.01	<0.01
SEF-02_rut_2	58.64	39.53	0.0032	0.0399	0.0132	0.0939	0.1433	<0.003	0.5794	<0.004	0.0083	0.0171	<0.006	0.0436	<0.01	0.0113
SEF-02_rut_3																
SINA-04_rut_1	58.06	39.64	0.1876	0.4657	0.0929	0.0335	<0.003	0.0234	0.1102	0.0628	0.0292	0.0595	<0.007	0.0068	<0.01	0.0663
SINA-04_rut_2	58.18	39:54	0.1790	0.3316	0.0764	<0.02	<0.003	0.0174	0.1223	0.0592	0.0446	0.0534	<0.006	0.0044	<0.01	0.0567
*All el	*All elements are in wt. % (EMPA)	e in wt.	% (EMPA	<u>.</u>												

Appendix C: Eastern Sunda arc rutile trace element chemistry (EMPA)

11   0   0   14   15   0   0   14   15   0   0   0   0   0   0   0   0   0	1	1					=												
57.3         38.4         0.25.5         0.54.0         0.0077         0.0028         0.108         0.0077         0.0088         0.0077         0.0088         0.0077         0.0088         0.0077         0.0088         0.0077         0.0088         0.0077         0.0088         0.0077         0.0088         0.0077         0.0088         0.0077         0.0088         0.0077         0.0088         0.0077         0.0088         0.0077         0.0088         0.0077         0.0078         0.0077         0.0078         0.0077         0.0078         0.0077         0.0078         0.0077         0.0078	1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,	17.5   18.6   1.0   1.	Analysis ID	F	0	Ι¥	Si	Ca	>	ċ	Mn	Fe	Cu	Zr	qN	Мо	S	Та	*
1,1,   1,1,	1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,	1	SINA-04_rut_3	57.56	39.42	0.2155	0.5410	0.0877	0.0379	<0.003	0.0213	0.1065	0.0770	0.0353	0.0534	<0.007	0.0075	<0.01	0.0951
51.88         33.88         0.0207         0.0288         -0.0207         -0.0208         -0.0207         -0.0208         -0.0209         -0.0	1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,	1,1,   1,1,	SINA-04_rut_4	58.53	39.76	0.1940	0.2992	0.0885	<0.02	<0.003	0.0256	0.1365	0.0117	0.0469	0.0548	<0.007	<0.002	<0.01	0.0505
57.88         39.78         0.0269         0.0269         0.0771         0.1711         0.1714         0.0269         0.0269         0.0271         0.0271         0.0269         0.0271         0.0271         0.0269         0.0271 <td>                                     </td> <td>  State   State   State   Colore   Colo</td> <td>SINA-04_rut_5</td> <td></td>		State   State   State   Colore   Colo	SINA-04_rut_5																
518.0         38.0         CORNER         CORNER <td>55.50         35.50         CODING         CODING<td>518.0         38.9         CORNER         CORNER<td>SINA-04_rut_6</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td></td>	55.50         35.50         CODING         CODING <td>518.0         38.9         CORNER         CORNER<td>SINA-04_rut_6</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td>	518.0         38.9         CORNER         CORNER <td>SINA-04_rut_6</td> <td></td>	SINA-04_rut_6																
5188         38.96         C2207         C5881         C1026         C400         C1071         C1071         C1072         C400         C1071         C1071         C1072         C400         C1071         C1072         C400         C1072         C107	The color   The		SINA-04_rut_/																
58.78         38.77         0.00449         0.0089 </td <td>  See</td> <td>  Sign  </td> <td>SINA-05_rut_1</td> <td>57.68</td> <td>39.58</td> <td>0.2307</td> <td>0.5861</td> <td>0.1428</td> <td>&lt;0.02</td> <td>&lt;0.003</td> <td>0.0171</td> <td>0.1321</td> <td>&lt;0.004</td> <td>0.0331</td> <td>0.0508</td> <td>&lt;0.007</td> <td>0.0516</td> <td>&lt;0.01</td> <td>0.0886</td>	See	Sign   Sign	SINA-05_rut_1	57.68	39.58	0.2307	0.5861	0.1428	<0.02	<0.003	0.0171	0.1321	<0.004	0.0331	0.0508	<0.007	0.0516	<0.01	0.0886
58.96         39.26         0.0044         0.0089         0.0981         0.0982         0.0098 <td>58.98         99.78         0.0049         0.0969         0.0899         0.0099         0.0999<td>  Sign  </td><td>SINA-05 rut 2</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td>	58.98         99.78         0.0049         0.0969         0.0899         0.0099         0.0999 <td>  Sign  </td> <td>SINA-05 rut 2</td> <td></td>	Sign   Sign	SINA-05 rut 2																
58.78         38.79         0.0044         0.005         0.045         0.0045		Sign   Sign	SINA-05_rut_3																
58.80         38.80         0.0044         0.0026         0.0144         0.0056         0.0046         0.0056         0.0046         0.0076 <td>  Fig. 10   Fig.</td> <td>  Sign   Sign   Court</td> <td>SING-01_rut_1</td> <td>58.86</td> <td>39.76</td> <td>0.0039</td> <td>0.0165</td> <td>0.0835</td> <td>0.4546</td> <td>0.0062</td> <td>&lt;0.003</td> <td>0.3511</td> <td>&lt;0.004</td> <td>0.0904</td> <td>0.0355</td> <td>&lt;0.007</td> <td>0.0279</td> <td>&lt;0.01</td> <td>0.0235</td>	Fig. 10   Fig.	Sign   Sign   Court	SING-01_rut_1	58.86	39.76	0.0039	0.0165	0.0835	0.4546	0.0062	<0.003	0.3511	<0.004	0.0904	0.0355	<0.007	0.0279	<0.01	0.0235
58.78         38.72         0.00041         0.00278         0.02781         0.00284         0.02781         0.00782         0.	68.78         38.72         0.00041         0.00286         0.0289         0.00186         0.0289         0.00186         0.00	Signate   Sign	SING-01_rut_2	58.90	39.69	0.0044	0.0088	0.0581	0.3479	0.0055	<0.003	0.3844	<0.004	0.0352	<0.006	<0.007	0.0538	<0.01	0.0372
58.58         38.67         0.0041         0.0276         0.0286         0.0286         0.0046         0.0286         0.0046         0.0076         0.0286         0.0076         0.0286         0.0076         0.0286         0.0076         0.0286         0.0076         0.0076         0.0286         0.0076 <td>  184   184</td> <td>  14   15   15   15   15   15   15   15</td> <td>31NG-01_rut_3</td> <td></td>	184   184	14   15   15   15   15   15   15   15	31NG-01_rut_3																
58.88         38.66         0.0054         0.0054         0.0254         0.0058 <td>  1848   3847   0.0054   0.0255   0.0255   0.0255   0.0256   0.025</td> <td>  Sign</td> <td>ING-02_rut_10</td> <td>58.76</td> <td>39.72</td> <td>0.0041</td> <td>0.0276</td> <td>0.1161</td> <td>0.5908</td> <td>0.0269</td> <td>&lt;0.003</td> <td>0.2162</td> <td>&lt;0.004</td> <td>0.0192</td> <td>0.0356</td> <td>&lt;0.007</td> <td>0.0164</td> <td>&lt;0.01</td> <td>0.0304</td>	1848   3847   0.0054   0.0255   0.0255   0.0255   0.0256   0.025	Sign	ING-02_rut_10	58.76	39.72	0.0041	0.0276	0.1161	0.5908	0.0269	<0.003	0.2162	<0.004	0.0192	0.0356	<0.007	0.0164	<0.01	0.0304
58.84         38.86         0.0022         0.0039         0.0039         0.0039         0.0039         0.0039         0.0039         0.0039         0.0039         0.0039         0.0039         0.0039         0.0039         0.0039         0.0039         0.0039         0.0039         0.0039         0.0039         0.0039         0.0049         0.0049         0.0039         0.0039         0.0049         0.0049         0.0039         0.0039         0.0049         0.0049         0.0039         0.0049 <td>  1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,</td> <td>  1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,</td> <td>ING-02_rut_11</td> <td>58.89</td> <td>39.65</td> <td>0.0064</td> <td>0.0233</td> <td>0.0751</td> <td>0.2211</td> <td>0.0365</td> <td>&lt;0.003</td> <td>0.3112</td> <td>&lt;0.004</td> <td>0.0326</td> <td>0.0321</td> <td>0.0069</td> <td>0.0184</td> <td>&lt;0.01</td> <td>0.0180</td>	1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,	1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,	ING-02_rut_11	58.89	39.65	0.0064	0.0233	0.0751	0.2211	0.0365	<0.003	0.3112	<0.004	0.0326	0.0321	0.0069	0.0184	<0.01	0.0180
68.34         38.64         0.0036         0.0046         0.0169         0.0269         0.0169 <td>6.8.1         38.67         0.0038         0.0249<td>6.8.4         38.64         0.000         <th< td=""><td>ING-02_rut_12</td><td>58.83</td><td>39.68</td><td>0.0052</td><td>0.0267</td><td>0.0654</td><td>0.3264</td><td>0.0263</td><td>&lt;0.003</td><td>0.2675</td><td>&lt;0.004</td><td>0.0456</td><td>0.0441</td><td>&lt;0.006</td><td>0.0866</td><td>&lt;0.01</td><td>0.0345</td></th<></td></td>	6.8.1         38.67         0.0038         0.0249 <td>6.8.4         38.64         0.000         <th< td=""><td>ING-02_rut_12</td><td>58.83</td><td>39.68</td><td>0.0052</td><td>0.0267</td><td>0.0654</td><td>0.3264</td><td>0.0263</td><td>&lt;0.003</td><td>0.2675</td><td>&lt;0.004</td><td>0.0456</td><td>0.0441</td><td>&lt;0.006</td><td>0.0866</td><td>&lt;0.01</td><td>0.0345</td></th<></td>	6.8.4         38.64         0.000 <th< td=""><td>ING-02_rut_12</td><td>58.83</td><td>39.68</td><td>0.0052</td><td>0.0267</td><td>0.0654</td><td>0.3264</td><td>0.0263</td><td>&lt;0.003</td><td>0.2675</td><td>&lt;0.004</td><td>0.0456</td><td>0.0441</td><td>&lt;0.006</td><td>0.0866</td><td>&lt;0.01</td><td>0.0345</td></th<>	ING-02_rut_12	58.83	39.68	0.0052	0.0267	0.0654	0.3264	0.0263	<0.003	0.2675	<0.004	0.0456	0.0441	<0.006	0.0866	<0.01	0.0345
58.78         39.64         0.0036         0.01419         0.1889         0.2347         0.00710         0.02780         0.0102	58.78         39.64         0.0039         0.01419         0.1899         0.2347         0.0019         0.2489         0.0029         0.00419         0.1899         0.2347         0.0019         0.2489         0.0029         0.0019         0.2489         0.0029         0.0019         0.2489         0.0029         0.0019         0.0029         0.0019         0.0029         0.0019         0.0029         0.0019         0.0029         0.0019         0.0029         0.0019         0.0029         0.0019         0.0029         0.0019         0.0029         0.0019         0.0029<	58.15         38.64         0.0028         0.0149         0.0284         0.0241         0.0028         0.0249         0.0284         0.0271         0.0003         0.0284         0.0028         0.0284         0.0284         0.0028         0.0284         0.0284         0.0028         0.0189         0.0284         0.0028         0.0189         0.0028         0.0189         0.0028         0.0189         0.0028         0.0189         0.0028         0.0189         0.0028         0.0028         0.0189         0.0028 <td>ING-02_rut_13</td> <td>58.94</td> <td>39.67</td> <td>0.0036</td> <td>0.0206</td> <td>0.0519</td> <td>0.2567</td> <td>0.0139</td> <td>&lt;0.003</td> <td>0.3178</td> <td>&lt;0.004</td> <td>0.0094</td> <td>0.0416</td> <td>&lt;0.007</td> <td>0.0151</td> <td>&lt;0.01</td> <td>&lt;0.01</td>	ING-02_rut_13	58.94	39.67	0.0036	0.0206	0.0519	0.2567	0.0139	<0.003	0.3178	<0.004	0.0094	0.0416	<0.007	0.0151	<0.01	<0.01
68.78         38.64         CODOS         CODAS         CODAS <th< td=""><td>58.7         38.64         0.0036         0.0449         0.1899         0.2847         0.001         0.0127         0.0027         0.0027         0.0028         0.0128         0.0127</td><td>98.7         38.64         0.0038         0.0449         0.1889         0.2847         0.003         0.0141         0.1889         0.0284         0.0036         0.0172         0.0036         0.0142         0.0182         0.0284         0.0046         0.0285         0.0193         0.0141         0.0281         0.0282         0.0046         0.0282         0.0046         0.0282         0.0046         0.0282         0.0046         0.0282         0.0046         0.0282         0.0046         0.0078         0.0046         0.0078         0.0046         0.0078         0.0046         0.0078         0.0046         0.0078         0.0046         0.0078         0.0046         0.0078         0.0046         0.0078         0.0046         0.0078         0.0046         0.0078         0.0046         0.0078</td><td>ING-02_rut_14</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></th<>	58.7         38.64         0.0036         0.0449         0.1899         0.2847         0.001         0.0127         0.0027         0.0027         0.0028         0.0128         0.0127	98.7         38.64         0.0038         0.0449         0.1889         0.2847         0.003         0.0141         0.1889         0.0284         0.0036         0.0172         0.0036         0.0142         0.0182         0.0284         0.0046         0.0285         0.0193         0.0141         0.0281         0.0282         0.0046         0.0282         0.0046         0.0282         0.0046         0.0282         0.0046         0.0282         0.0046         0.0282         0.0046         0.0078         0.0046         0.0078         0.0046         0.0078         0.0046         0.0078         0.0046         0.0078         0.0046         0.0078         0.0046         0.0078         0.0046         0.0078         0.0046         0.0078         0.0046         0.0078         0.0046         0.0078	ING-02_rut_14																
68.77         38.94         0.0033         0.0149         0.1893         0.0149         0.0149         0.1893         0.0273         0.0149         0.0149         0.1893         0.0149         0.0149         0.1893         0.0149 <td>58.17         38.94         0.0033         0.0149         0.1893         0.0149         0.0149         0.1893         0.0149         0.0149         0.1893         0.0149         0.0149         0.1893         0.0149         0.0149         0.1893         0.0149<td>58.7         38.94         0.003         0.049         0.0189</td><td>ING-02_rut_15</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td>	58.17         38.94         0.0033         0.0149         0.1893         0.0149         0.0149         0.1893         0.0149         0.0149         0.1893         0.0149         0.0149         0.1893         0.0149         0.0149         0.1893         0.0149 <td>58.7         38.94         0.003         0.049         0.0189</td> <td>ING-02_rut_15</td> <td></td>	58.7         38.94         0.003         0.049         0.0189	ING-02_rut_15																
58.13         38.84         0.0003         0.01173         0.0174         0.0173         0.0174 </td <td>84.13         38.847         0.00033         0.01192         0.01033         0.01019         0.01013         0.01019         0</td> <td>847 3 848 7 00074 01021 01221 01221 01221 01221 01221 01222 01221 01222</td> <td>ING-02_rut_2</td> <td>58.78</td> <td>39.64</td> <td>0.0036</td> <td>0.0419</td> <td>0.1899</td> <td>0.2847</td> <td>0.0211</td> <td>&lt;0.003</td> <td>0.2783</td> <td>&lt;0.004</td> <td>0.0132</td> <td>0.0227</td> <td>&lt;0.007</td> <td>0.0213</td> <td>&lt;0.01</td> <td>0.0239</td>	84.13         38.847         0.00033         0.01192         0.01033         0.01019         0.01013         0.01019         0	847 3 848 7 00074 01021 01221 01221 01221 01221 01221 01222 01221 01222	ING-02_rut_2	58.78	39.64	0.0036	0.0419	0.1899	0.2847	0.0211	<0.003	0.2783	<0.004	0.0132	0.0227	<0.007	0.0213	<0.01	0.0239
58.73         39.62         0.0074         0.0078 <td>58.57         38.66         0.0074         0.0289         0.0289         0.0074         0.0078         0.0079         0.0078         0.0078         0.0078         0.0078         0.0078<td>58.57         38.68         0.0074         0.0078<td>ING-02_rut_3</td><td>59.13</td><td>39.87</td><td>0.0033</td><td>0.0112</td><td>0.1291</td><td>0.3573</td><td>0.0521</td><td>&lt;0.003</td><td>0.2489</td><td>&lt;0.004</td><td>0.0263</td><td>0.0193</td><td>0.0100</td><td>0.0212</td><td>&lt;0.01</td><td>&lt;0.01</td></td></td>	58.57         38.66         0.0074         0.0289         0.0289         0.0074         0.0078         0.0079         0.0078         0.0078         0.0078         0.0078         0.0078 <td>58.57         38.68         0.0074         0.0078<td>ING-02_rut_3</td><td>59.13</td><td>39.87</td><td>0.0033</td><td>0.0112</td><td>0.1291</td><td>0.3573</td><td>0.0521</td><td>&lt;0.003</td><td>0.2489</td><td>&lt;0.004</td><td>0.0263</td><td>0.0193</td><td>0.0100</td><td>0.0212</td><td>&lt;0.01</td><td>&lt;0.01</td></td>	58.57         38.68         0.0074         0.0078 <td>ING-02_rut_3</td> <td>59.13</td> <td>39.87</td> <td>0.0033</td> <td>0.0112</td> <td>0.1291</td> <td>0.3573</td> <td>0.0521</td> <td>&lt;0.003</td> <td>0.2489</td> <td>&lt;0.004</td> <td>0.0263</td> <td>0.0193</td> <td>0.0100</td> <td>0.0212</td> <td>&lt;0.01</td> <td>&lt;0.01</td>	ING-02_rut_3	59.13	39.87	0.0033	0.0112	0.1291	0.3573	0.0521	<0.003	0.2489	<0.004	0.0263	0.0193	0.0100	0.0212	<0.01	<0.01
53.33         40.02         0.00299         0.0277         0.1017         0.0278         0.1018          0.0018          0.0018         0.0018         0.0018         0.0018         0.0018         0.0018         0.0018         0.0018         0.0018         0.0018         0.0018         0.0018         0.0018         0.0018	55.33         40.02         0.00299         0.0149 </td <td>58.38         4.00         0.0043         0.0043         0.00480         0.0049         0.0015         0.0016         0.0016         0.0017         0.0014         0.0018         0.0018         0.0018         0.0018         0.0014<td>ING-02_rut_4</td><td>58.73</td><td>39.62</td><td>0.0074</td><td>0.0238</td><td>0.1105</td><td>0.3994</td><td>0.0238</td><td>&lt;0.003</td><td>0.2230</td><td>&lt;0.004</td><td>0.0075</td><td>0.0525</td><td>&lt;0.006</td><td>0.0131</td><td>&lt;0.01</td><td>0.0625</td></td>	58.38         4.00         0.0043         0.0043         0.00480         0.0049         0.0015         0.0016         0.0016         0.0017         0.0014         0.0018         0.0018         0.0018         0.0018         0.0014 <td>ING-02_rut_4</td> <td>58.73</td> <td>39.62</td> <td>0.0074</td> <td>0.0238</td> <td>0.1105</td> <td>0.3994</td> <td>0.0238</td> <td>&lt;0.003</td> <td>0.2230</td> <td>&lt;0.004</td> <td>0.0075</td> <td>0.0525</td> <td>&lt;0.006</td> <td>0.0131</td> <td>&lt;0.01</td> <td>0.0625</td>	ING-02_rut_4	58.73	39.62	0.0074	0.0238	0.1105	0.3994	0.0238	<0.003	0.2230	<0.004	0.0075	0.0525	<0.006	0.0131	<0.01	0.0625
58.43         38.94         0.0045         0.7709         0.0046         0.1709         0.0046         0.0044         0.0046         0.0046         0.0044         0.0046 <td>58.45         38.84         0.00445         0.07780         0.00486         0.01470         0.00486         0.01470         0.00486         0.00446         0.00486         0.00486         0.00446         0.00486         0.</td> <td>58.43         38.84         0.0421         0.0421         0.0426         0.4417         0.0488         0.4417         0.0488         0.4007         0.1478         0.0401         0.0481         0.0402         0.0403         0.0484         0.0035         0.2417         0.0404         0.0036         0.0178         0.0049         0.0036         0.0248         0.0036         0.0248         0.0036         0.0248         0.0036         0.0248         0.0036         0.0248         0.0036         0.0049         0.0036         0.0049         0.0036         0.0049         0.0036         0.0049         0.0036         0.0049         0.0036         0.0049         0.0036         0.0049         0.0036         0.0049         0.0036         0.0049         0.0036         0.0049         0.0036         0.0049         0.0036         0.0049<td>ING-02_rut_5</td><td>59.39</td><td>40.02</td><td>0.0059</td><td>0.0217</td><td>0.1072</td><td>0.3724</td><td>0.0631</td><td>0.0053</td><td>0.1806</td><td>&lt;0.004</td><td>9600.0</td><td>0.0185</td><td>&lt;0.007</td><td>0.0140</td><td>&lt;0.01</td><td>&lt;0.01</td></td>	58.45         38.84         0.00445         0.07780         0.00486         0.01470         0.00486         0.01470         0.00486         0.00446         0.00486         0.00486         0.00446         0.00486         0.	58.43         38.84         0.0421         0.0421         0.0426         0.4417         0.0488         0.4417         0.0488         0.4007         0.1478         0.0401         0.0481         0.0402         0.0403         0.0484         0.0035         0.2417         0.0404         0.0036         0.0178         0.0049         0.0036         0.0248         0.0036         0.0248         0.0036         0.0248         0.0036         0.0248         0.0036         0.0248         0.0036         0.0049         0.0036         0.0049         0.0036         0.0049         0.0036         0.0049         0.0036         0.0049         0.0036         0.0049         0.0036         0.0049         0.0036         0.0049         0.0036         0.0049         0.0036         0.0049         0.0036         0.0049         0.0036         0.0049 <td>ING-02_rut_5</td> <td>59.39</td> <td>40.02</td> <td>0.0059</td> <td>0.0217</td> <td>0.1072</td> <td>0.3724</td> <td>0.0631</td> <td>0.0053</td> <td>0.1806</td> <td>&lt;0.004</td> <td>9600.0</td> <td>0.0185</td> <td>&lt;0.007</td> <td>0.0140</td> <td>&lt;0.01</td> <td>&lt;0.01</td>	ING-02_rut_5	59.39	40.02	0.0059	0.0217	0.1072	0.3724	0.0631	0.0053	0.1806	<0.004	9600.0	0.0185	<0.007	0.0140	<0.01	<0.01
58.87         38.88         0.0044         0.02764         0.0177         0.0082         0.0073         0.0279         0.0078         0.0077         0.0078         0.0177         0.0084         0.0077         0.0082         0.0074         0.0079         0.0077         0.0079         0.0079         0.0079         0.0077         0.0079 </td <td>58.87         38.68         0.0045         0.0056         0.0264         0.0359         0.0259         0.0271         0.0040         0.0164         0.0045         0.0164         0.0046         0.0164         0.0046         0.0164         0.0049         0.0174         0.0049<td>58.87         38.68         0.0045         0.0265         0.0264         0.0216         0.0109         0.0040         0.0149         0.0249         0.0217         0.0040         0.0149         0.0249         0.0149         0.0218         0.0149         0.0218         0.0048         0.0189         0.0048         0.0189         0.0189         0.0048         0.0189         0.0048         0.0189<td>NG-02_rut_6</td><td>58.43</td><td>39.84</td><td>0.0421</td><td>0.1709</td><td>0.6008</td><td>0.4817</td><td>0.0496</td><td>&lt;0.003</td><td>0.1586</td><td>&lt;0.004</td><td>0.0155</td><td>0.0269</td><td>&lt;0.007</td><td>0.0373</td><td>&lt;0.01</td><td>0.0375</td></td></td>	58.87         38.68         0.0045         0.0056         0.0264         0.0359         0.0259         0.0271         0.0040         0.0164         0.0045         0.0164         0.0046         0.0164         0.0046         0.0164         0.0049         0.0174         0.0049 <td>58.87         38.68         0.0045         0.0265         0.0264         0.0216         0.0109         0.0040         0.0149         0.0249         0.0217         0.0040         0.0149         0.0249         0.0149         0.0218         0.0149         0.0218         0.0048         0.0189         0.0048         0.0189         0.0189         0.0048         0.0189         0.0048         0.0189<td>NG-02_rut_6</td><td>58.43</td><td>39.84</td><td>0.0421</td><td>0.1709</td><td>0.6008</td><td>0.4817</td><td>0.0496</td><td>&lt;0.003</td><td>0.1586</td><td>&lt;0.004</td><td>0.0155</td><td>0.0269</td><td>&lt;0.007</td><td>0.0373</td><td>&lt;0.01</td><td>0.0375</td></td>	58.87         38.68         0.0045         0.0265         0.0264         0.0216         0.0109         0.0040         0.0149         0.0249         0.0217         0.0040         0.0149         0.0249         0.0149         0.0218         0.0149         0.0218         0.0048         0.0189         0.0048         0.0189         0.0189         0.0048         0.0189         0.0048         0.0189 <td>NG-02_rut_6</td> <td>58.43</td> <td>39.84</td> <td>0.0421</td> <td>0.1709</td> <td>0.6008</td> <td>0.4817</td> <td>0.0496</td> <td>&lt;0.003</td> <td>0.1586</td> <td>&lt;0.004</td> <td>0.0155</td> <td>0.0269</td> <td>&lt;0.007</td> <td>0.0373</td> <td>&lt;0.01</td> <td>0.0375</td>	NG-02_rut_6	58.43	39.84	0.0421	0.1709	0.6008	0.4817	0.0496	<0.003	0.1586	<0.004	0.0155	0.0269	<0.007	0.0373	<0.01	0.0375
58.22         38.75         0.0068         0.0268         0.0289         0.0289         0.0187           0.0049         0.0032         0.0246          0.0034         0.0187          0.0049         0.0034         0.0034         0.0187          0.0188          0.0187          0.0187          0.0187          0.0187          0.0187          0.0187          <	58.22         38.75         0.0046         0.2386         0.2871         0.0449         0.0246         0.0040         0.0187         0.0187         0.0187         0.0046 <td>58.82         38.75         0.0088         0.0036         0.1789         0.0246         -0.003         0.0244         -0.003         0.0184         -0.003         0.0246         -0.003         0.0246         -0.003         0.0246         -0.003         0.0246         -0.003         0.0246         -0.003         0.0246         -0.003         0.0246         -0.003         0.0449         -0.003         0.0266         0.003         0.0246         -0.003         0.0476         0.0266         0.0266         -0.004         0.0266         -0.004         0.003         0.0176         -0.003         0.0176         -0.003         0.0176         -0.003         0.0176         -0.004         0.0176         -0.004         0.0176         -0.003         0.0176         0.003         0.0176         0.0176         0.003         0.0176         0.003         0.0176         0.003         0.0176         0.003         0.0176         0.003         0.0176         0.003         0.0176         0.003         0.0176         0.003         0.0176         0.003         0.0176         0.003         0.0176         0.003         0.0176         0.003         0.0176         0.003         0.0176         0.003         0.0176         0.003         0.0176         0.003         0.00</td> <td>NG-02_rut_7</td> <td>58.87</td> <td>39.68</td> <td>0.0045</td> <td>0.0265</td> <td>0.0644</td> <td>0.3177</td> <td>0.0932</td> <td>&lt;0.003</td> <td>0.2176</td> <td>&lt;0.004</td> <td>0.0484</td> <td>0.0254</td> <td>&lt;0.007</td> <td>0.0186</td> <td>&lt;0.01</td> <td>&lt;0.01</td>	58.82         38.75         0.0088         0.0036         0.1789         0.0246         -0.003         0.0244         -0.003         0.0184         -0.003         0.0246         -0.003         0.0246         -0.003         0.0246         -0.003         0.0246         -0.003         0.0246         -0.003         0.0246         -0.003         0.0246         -0.003         0.0449         -0.003         0.0266         0.003         0.0246         -0.003         0.0476         0.0266         0.0266         -0.004         0.0266         -0.004         0.003         0.0176         -0.003         0.0176         -0.003         0.0176         -0.003         0.0176         -0.004         0.0176         -0.004         0.0176         -0.003         0.0176         0.003         0.0176         0.0176         0.003         0.0176         0.003         0.0176         0.003         0.0176         0.003         0.0176         0.003         0.0176         0.003         0.0176         0.003         0.0176         0.003         0.0176         0.003         0.0176         0.003         0.0176         0.003         0.0176         0.003         0.0176         0.003         0.0176         0.003         0.0176         0.003         0.0176         0.003         0.00	NG-02_rut_7	58.87	39.68	0.0045	0.0265	0.0644	0.3177	0.0932	<0.003	0.2176	<0.004	0.0484	0.0254	<0.007	0.0186	<0.01	<0.01
58.88         38.78         0.0043         0.0197         0.1579         0.3801         0.0077         0.0104         0.0026         0.0146         0.0040         0.0146         0.0040         0.0146         0.0044         0.0014 <td>58.88         38.78         0.0043         0.0149         0.1579         0.3801         0.0070         0.0146         0.0070         0.0146         0.0074         0.0146         0.0074         0.0146         0.0074         0.0146         0.0074         0.0146         0.0074         0.0146         0.0074         0.0146         0.0074<td>5.8.8         38.78         0.0445         0.0145         0.0146         0.0146         0.0146         0.0146         0.0146         0.0146         0.0146         0.0146         0.0146         0.0146         0.0146         0.0144<td>NG-02_rut_8</td><td>58.92</td><td>39.75</td><td>0.0068</td><td>0.0305</td><td>0.2189</td><td>0.3211</td><td>0.0449</td><td>&lt;0.003</td><td>0.2446</td><td>&lt;0.004</td><td>0.0090</td><td>0.0187</td><td>&lt;0.006</td><td>0.0206</td><td>&lt;0.01</td><td>&lt;0.01</td></td></td>	58.88         38.78         0.0043         0.0149         0.1579         0.3801         0.0070         0.0146         0.0070         0.0146         0.0074         0.0146         0.0074         0.0146         0.0074         0.0146         0.0074         0.0146         0.0074         0.0146         0.0074         0.0146         0.0074 <td>5.8.8         38.78         0.0445         0.0145         0.0146         0.0146         0.0146         0.0146         0.0146         0.0146         0.0146         0.0146         0.0146         0.0146         0.0146         0.0144<td>NG-02_rut_8</td><td>58.92</td><td>39.75</td><td>0.0068</td><td>0.0305</td><td>0.2189</td><td>0.3211</td><td>0.0449</td><td>&lt;0.003</td><td>0.2446</td><td>&lt;0.004</td><td>0.0090</td><td>0.0187</td><td>&lt;0.006</td><td>0.0206</td><td>&lt;0.01</td><td>&lt;0.01</td></td>	5.8.8         38.78         0.0445         0.0145         0.0146         0.0146         0.0146         0.0146         0.0146         0.0146         0.0146         0.0146         0.0146         0.0146         0.0146         0.0144 <td>NG-02_rut_8</td> <td>58.92</td> <td>39.75</td> <td>0.0068</td> <td>0.0305</td> <td>0.2189</td> <td>0.3211</td> <td>0.0449</td> <td>&lt;0.003</td> <td>0.2446</td> <td>&lt;0.004</td> <td>0.0090</td> <td>0.0187</td> <td>&lt;0.006</td> <td>0.0206</td> <td>&lt;0.01</td> <td>&lt;0.01</td>	NG-02_rut_8	58.92	39.75	0.0068	0.0305	0.2189	0.3211	0.0449	<0.003	0.2446	<0.004	0.0090	0.0187	<0.006	0.0206	<0.01	<0.01
53.86         38.64         0.4857         1.9000         2.4946         0.0721         -0.0036         0.0205         -0.0056         0.0727         -0.0070         0.0206         0.0205         -0.0057         -0.0070         0.0172         -0.0070         0.0172         -0.0071	53.86         38.64         0.4857         1.9000         2.4946         0.0721         -0.0036         0.0205         0.0205         0.0205         0.0205         0.0205         0.0206         0.0205         0.0206         0.0205         0.0206         0.0206         0.0207         0.0007         0.0008         0.0246         0.0201         0.0008         0.0217         0.0008         0.0171         0.0008         0.0171         0.0008         0.0171         0.0008         0.0171         0.0008         0.0171         0.0008         0.0171         0.0008         0.0171         0.0008         0.0171         0.0009         0.0171         0.0009         0.0171         0.0008         0.0018         0.0286         0.0017         0.0008         0.0171         0.0008         0.0171         0.0009         0.0017         0.0009 </td <td>53.86         39.84         0.6575         1.9030         0.0766         0.0766         0.0266         0.0027         0.0030         0.0766         0.0766         0.0767         0.0046         0.0030         0.0146         0.0266         0.0047         0.0066         0.0077         0.0076         0.0078<td>NG-02_rut_9</td><td>58.98</td><td>39.78</td><td>0.0043</td><td>0.0197</td><td>0.1579</td><td>0.3801</td><td>0.0571</td><td>&lt;0.003</td><td>0.1982</td><td>&lt;0.004</td><td>0.0395</td><td>0.0146</td><td>&lt;0.007</td><td>0.0145</td><td>&lt;0.01</td><td>&lt;0.01</td></td>	53.86         39.84         0.6575         1.9030         0.0766         0.0766         0.0266         0.0027         0.0030         0.0766         0.0766         0.0767         0.0046         0.0030         0.0146         0.0266         0.0047         0.0066         0.0077         0.0076         0.0078 <td>NG-02_rut_9</td> <td>58.98</td> <td>39.78</td> <td>0.0043</td> <td>0.0197</td> <td>0.1579</td> <td>0.3801</td> <td>0.0571</td> <td>&lt;0.003</td> <td>0.1982</td> <td>&lt;0.004</td> <td>0.0395</td> <td>0.0146</td> <td>&lt;0.007</td> <td>0.0145</td> <td>&lt;0.01</td> <td>&lt;0.01</td>	NG-02_rut_9	58.98	39.78	0.0043	0.0197	0.1579	0.3801	0.0571	<0.003	0.1982	<0.004	0.0395	0.0146	<0.007	0.0145	<0.01	<0.01
58.55         39.64         0.0539         0.3446         0.0106         0.04610         0.0106         0.04610         0.04610         0.04610         0.04610         0.04610         0.04640         0.0466         0.04774         0.0006         0.04104         0.0114         0.0114         0.0114	58.35         39.64         0.0539         0.23465         0.0410         <0.0003         0.0106         <0.00104         <0.0103         <0.0106         0.0027         <0.0066         0.0104         <0.0104         <0.0104         <0.0104         <0.0104         <0.0104         <0.0104         <0.0104         <0.0104         <0.0104         <0.0104         <0.0104         <0.0104         <0.0104         <0.0104         <0.0104         <0.0104         <0.0104         <0.0104         <0.0104         <0.0104         <0.0104         <0.0104         <0.0104         <0.0104         <0.0104         <0.0104         <0.0104         <0.0104         <0.0104         <0.0104         <0.0104         <0.0104         <0.0104         <0.0104         <0.0104         <0.0104         <0.0104         <0.0104         <0.0104         <0.0104         <0.0104         <0.0104         <0.0104         <0.0104         <0.0104         <0.0104         <0.0104         <0.0104         <0.0104         <0.0104         <0.0104         <0.0104         <0.0104         <0.0104         <0.0104         <0.0104         <0.0104         <0.0104         <0.0104         <0.0104         <0.0104         <0.0104         <0.0104         <0.0104         <0.0104         <0.0104         <0.0104         <0.0104         <0.010	58.55         39.64         0.0539         0.3386         0.5465         0.0410         <0.0039         0.04610         <0.0036         0.04610         <0.0662         0.0663         0.0717         <0.0070         0.0668         0.0717         <0.0070         0.0768         0.0717         <0.0070         0.0768         0.0717         <0.0070         0.0768         0.0717         <0.0070         0.0718         0.0718         0.0717         <0.0070         0.0718         0.0718         0.0071         0.0718         0.0718         0.0717         <0.0070         0.0718         0.0718         0.0071         0.0718         0.0718         0.0717         <0.0079         0.0718	R-04_rut_1	53.86	39.86	0.4857	1.9030	2.4946	0.0727	<0.003	0.0080	0.5265	0.0205	<0.005	0.0137	<0.007	0.0305	<0.01	0.3201
56.05         39.64         0.0559         0.5456         0.0410         <0.0036         0.0460         0.0406         0.0476         0.0466         0.0721         <0.0086         0.0172         <0.0077         0.0164         <0.011           52.94         40.08         0.0578         2.7982         2.0644         <0.003	56.06         39.64         0.0539         0.5466         0.0410         0.0782         0.0656         0.0171         0.0106         0.0104 <td>86.55 36.64 0.0638 0.0385 0.0546 0.0051 0.0050 0.0106 0.4610 0.0282 0.0686 0.0172 0.0070 0.0104 0.0101 0.0032 0.0514 0.003 0.0105 0.0051 0.0450 0.0044 0.0039 0.0054 0.0054 0.0039 0.0054 0.005</td> <td>R-04_rut_10</td> <td></td>	86.55 36.64 0.0638 0.0385 0.0546 0.0051 0.0050 0.0106 0.4610 0.0282 0.0686 0.0172 0.0070 0.0104 0.0101 0.0032 0.0514 0.003 0.0105 0.0051 0.0450 0.0044 0.0039 0.0054 0.0054 0.0039 0.0054 0.005	R-04_rut_10																
58.73         39.67         0.0068         0.0555         0.1969         0.0615         <0.0071         <0.5560         0.0717         <0.0069         0.0717         <0.0079         <0.0071         <0.5560         0.0044         <0.0151         <0.0071         <0.0059         0.0017         <0.0071         <0.0059         0.0017         <0.0071         <0.0059         0.0017         <0.0071         <0.0059         0.0017         <0.0071         <0.0059         <0.0071         <0.0079         <0.0079         <0.0079         <0.0079         <0.0079         <0.0079         <0.0079         <0.0079         <0.0079         <0.0079         <0.0079         <0.0079         <0.0079         <0.0079         <0.0079         <0.0079         <0.0079         <0.0079         <0.0079         <0.0079         <0.0079         <0.0079         <0.0079         <0.0079         <0.0079         <0.0079         <0.0079         <0.0079         <0.0079         <0.0079         <0.0079         <0.0079         <0.0079         <0.0079         <0.0079         <0.0079         <0.0079         <0.0079         <0.0079         <0.0079         <0.0079         <0.0079         <0.0079         <0.0079         <0.0079         <0.0079         <0.0079         <0.0079         <0.0079         <0.0079         <0.0079	58.38         39.67         0.0068         0.0555         0.1969         0.0615         <0.0074         <0.0070         0.4768         0.0271         <0.006         0.0104         <0.010           52.94         40.08         0.5135         2.7982         0.0564         <0.0071	55.24	R-04_rut_2	58.05	39.64	0.0539	0.3395	0.5465	0.0410	<0.003	0.0106	0.4610	0.0362	0.0665	0.0172	<0.007	0.0161	<0.01	0.0609
52.94         40.08         0.5135         2.3788         2.7992         0.0614         <0.0560         0.0054         0.0584         0.0164         <0.0071         0.0579         0.0614         <0.0073         0.0173         0.6455         0.0138         0.0404         0.0194         <0.0194         <0.0194         <0.0194         <0.0194         <0.0179         <0.0179         <0.0179         <0.0179         <0.0179         <0.0179         <0.0179         <0.0179         <0.0179         <0.0179         <0.0179         <0.0179         <0.0179         <0.0179         <0.0179         <0.0179         <0.0179         <0.0179         <0.0179         <0.0179         <0.0179         <0.0179         <0.0179         <0.0179         <0.0179         <0.0179         <0.0179         <0.0179         <0.0179         <0.0179         <0.0179         <0.0179         <0.0179         <0.0179         <0.0179         <0.0179         <0.0179         <0.0179         <0.0179         <0.0179         <0.0179         <0.0179         <0.0179         <0.0179         <0.0179         <0.0179         <0.0179         <0.0179         <0.0179         <0.0179         <0.0179         <0.0179         <0.0179         <0.0179         <0.0179         <0.0179         <0.0179         <0.0179         <0.0179	5.294         40.08         0.5135         2.7392         0.0644         < 0.0645         0.0364         0.0464         0.0469         0.0710         < 0.0071         0.0645         0.0138         0.0446         0.0151         < 0.0071         0.0163         0.0469         0.0177         0.0162         < 0.0163         0.0464         0.0161         < 0.0070         0.0146         < 0.0070         0.0146         < 0.0074         < 0.0074         < 0.0072         < 0.0070         < 0.0074         < 0.0074         < 0.0072         < 0.0074         < 0.0074         < 0.0074         < 0.0074         < 0.0074         < 0.0079         < 0.0079         < 0.0079         < 0.0079         < 0.0079         < 0.0079         < 0.0079         < 0.0079         < 0.0079         < 0.0079         < 0.0079         < 0.0079         < 0.0079         < 0.0079         < 0.0079         < 0.0079         < 0.0079         < 0.0079         < 0.0079         < 0.0079         < 0.0079         < 0.0079         < 0.0079         < 0.0079         < 0.0079         < 0.0079         < 0.0079         < 0.0079         < 0.0079         < 0.0079         < 0.0079         < 0.0079         < 0.0079         < 0.0079         < 0.0079         < 0.0079         < 0.0079         < 0.0079         < 0.0079         < 0.0079         < 0.0079	52.94 40.06 0.5135 2.3798 2.7992 0.0514 <0.003 0.0051 0.0546 0.0564 0.0564 0.0564 0.0564 0.0564 0.0564 0.0564 0.0564 0.0564 0.0564 0.0564 0.0564 0.0564 0.0564 0.0564 0.0564 0.0564 0.0564 0.0567 0.0138 0.0079 0.0139 0.0572 0.0039 0.0572 0.0039 0.0572 0.0039 0.0572 0.0039 0.0057 0.0572 0.0059 0.0057 0.0572 0.0059 0.0057 0.0572 0.0059 0.0057 0.0049 0.0077 0.0047 0.00	R-04_rut_3	58.73	39.67	0.0068	0.0535	0.1969	0.0615	<0.003	<0.003	0.4768	0.0218	0.2856	0.0217	<0.006	0.0104	<0.01	0.0229
57.52         39.67         0.1771         0.5113         0.5797         0.0153         0.0153         0.0446         0.0446         <0.0077         0.035         <0.0153         0.0446         <0.0174         <0.003         <0.0159         0.0545         0.0516         <0.0741         <0.003         <0.0174         <0.003         <0.0174         <0.003         <0.0174         <0.003         <0.0174         <0.003         <0.0174         <0.003         <0.0174         <0.003         <0.0174         <0.003         <0.0174         <0.003         <0.0174         <0.003         <0.0174         <0.003         <0.0174         <0.003         <0.0174         <0.003         <0.0174         <0.003         <0.0174         <0.003         <0.0174         <0.003         <0.0174         <0.003         <0.003         <0.0463         <0.003         <0.003         <0.0043         <0.0043         <0.0043         <0.0043         <0.0043         <0.0043         <0.0044         <0.0044         <0.0044         <0.0044         <0.0044         <0.0044         <0.0044         <0.0044         <0.0044         <0.0044         <0.0044         <0.0044         <0.0044         <0.0044         <0.0044         <0.0044         <0.0044         <0.0044         <0.0044         <0.0044         <0.0044 <td>57.25         39.67         0.1771         0.5113         0.5797         0.0062         &lt;0.0073         0.0156         &lt;0.0074         0.0166         &lt;0.0074         0.0742         &lt;0.0073         0.0168         0.0404         &lt;0.0077         0.0168         &lt;0.0179         &lt;0.0077         &lt;0.0077</td> <td>57.32 39.67 0.1771 0.5113 0.5797 0.0362 &lt;0.0033 0.0159 0.0455 0.0159 0.0574 0.0325 0.0169 0.5797 0.0455 0.0159 0.0446 &lt;0.0077 0.0035 0.0074 0.0449 0.0074 0.0074 0.0074 0.0074 0.0039 0.0074 0.0074 0.0039 0.0074 0.0074 0.0039 0.0074 0.0074 0.0039 0.0074 0.0074 0.0074 0.0039 0.0074 0.0074 0.0039 0.0074 0.0074 0.0039 0.0074 0.</td> <td>R-04_rut_4</td> <td>52.94</td> <td>40.08</td> <td>0.5135</td> <td>2.3798</td> <td>2.7992</td> <td>0.0514</td> <td>&lt;0.003</td> <td>0.0071</td> <td>0.5560</td> <td>0.0054</td> <td>0.3584</td> <td>0.0151</td> <td>&lt;0.007</td> <td>0.0194</td> <td>&lt;0.01</td> <td>0.4148</td>	57.25         39.67         0.1771         0.5113         0.5797         0.0062         <0.0073         0.0156         <0.0074         0.0166         <0.0074         0.0742         <0.0073         0.0168         0.0404         <0.0077         0.0168         <0.0179         <0.0077         <0.0179         <0.0077         <0.0179         <0.0077         <0.0179         <0.0077         <0.0179         <0.0077         <0.0179         <0.0077         <0.0179         <0.0077         <0.0179         <0.0077         <0.0179         <0.0077         <0.0179         <0.0077         <0.0179         <0.0077         <0.0077         <0.0077         <0.0077         <0.0077         <0.0077         <0.0077         <0.0077         <0.0077         <0.0077         <0.0077         <0.0077         <0.0077         <0.0077         <0.0077         <0.0077         <0.0077         <0.0077         <0.0077         <0.0077         <0.0077         <0.0077         <0.0077         <0.0077         <0.0077         <0.0077         <0.0077         <0.0077         <0.0077         <0.0077         <0.0077         <0.0077         <0.0077         <0.0077         <0.0077         <0.0077         <0.0077         <0.0077         <0.0077         <0.0077         <0.0077         <0.0077         <0.0077         <0.0077	57.32 39.67 0.1771 0.5113 0.5797 0.0362 <0.0033 0.0159 0.0455 0.0159 0.0574 0.0325 0.0169 0.5797 0.0455 0.0159 0.0446 <0.0077 0.0035 0.0074 0.0449 0.0074 0.0074 0.0074 0.0074 0.0039 0.0074 0.0074 0.0039 0.0074 0.0074 0.0039 0.0074 0.0074 0.0039 0.0074 0.0074 0.0074 0.0039 0.0074 0.0074 0.0039 0.0074 0.0074 0.0039 0.0074 0.	R-04_rut_4	52.94	40.08	0.5135	2.3798	2.7992	0.0514	<0.003	0.0071	0.5560	0.0054	0.3584	0.0151	<0.007	0.0194	<0.01	0.4148
58.38         39.35         0.0070         0.0469         0.0740         0.0742         <0.0039         0.0796         0.0769         0.0748         <0.0796         0.0796         0.0796         0.0796         0.0796         0.0796         0.0797         0.0766         0.0797         0.0796         0.0797         0.0766         0.0797         0.0766         0.0797         0.0766         0.0797         0.0766         0.0797         0.0767         0.0767         0.0767         0.0777         0.0463         0.0767         0.0767         0.0777         0.0777         0.0463         0.0767         0.0777         0.0777         0.0463         0.0777         0.0463         0.0777         0.0463         0.0777         0.0077         0.0777         0.0777         0.0463         0.0777         0.0463         0.0777         0.0463         0.0777         0.0077         0.0777<	58.38         39.35         0.00770         0.0469         0.07740         0.0742         <0.0039         0.0736         0.0198         0.5796         0.0612         0.0685         0.0182         <0.0077         0.0103         <0.0077         <0.0077         0.0158         <0.0077         <0.0176         <0.0077         <0.0176         <0.0077         <0.0176         <0.0077         <0.0176         <0.0077         <0.0176         <0.0077         <0.0176         <0.0077         <0.0176         <0.0077         <0.0177         <0.0176         <0.0077         <0.0177         <0.0177         <0.0177         <0.0077         <0.0077         <0.0077         <0.0077         <0.0077         <0.0077         <0.0077         <0.0078         <0.0077         <0.0077         <0.0077         <0.0077         <0.0077         <0.0077         <0.0077         <0.0077         <0.0077         <0.0077         <0.0077         <0.0077         <0.0077         <0.0077         <0.0077         <0.0077         <0.0077         <0.0077         <0.0077         <0.0077         <0.0077         <0.0077         <0.0077         <0.0077         <0.0077         <0.0074         <0.0077         <0.0077         <0.0077         <0.0077         <0.0077         <0.0077         <0.0077         <0.0077         <0.0077	58.38 39.35 (0.0070 0.0469 0.0740 0.0742 0.0033 0.0198 0.5795 0.0612 0.0058 0.0162 0.0053 0.00198 0.0774 0.0032 0.00198 0.0774 0.0023 0.00198 0.0774 0.0023 0.00199 0.0774 0.0023 0.00199 0.0774 0.0023 0.002	R-04_rut_5	57.52	39.67	0.1771	0.5113	0.5797	0.0362	<0.003	0.0153	0.6455	0.0138	0.0404	0.0446	<0.007	0.0136	<0.01	0.0989
58.38         39.35         0.0070         0.0469         0.0740         0.0742         -0.003         0.0198         0.5795         0.0612         0.0868         0.0162         -0.007         0.0198         0.5795         0.0612         0.0868         0.0162         -0.007         0.0198         0.5794         0.0872         0.1263         0.0160         0.0160         0.0160         0.0176         0.0032         0.0176         0.0177         0.0176 <td>58.38         38.35         0.0070         0.0468         0.0742         &lt;0.0036         0.0196         0.5796         0.0612         0.0858         0.0182         &lt;0.0007         0.0005         &lt;0.0003         &lt;0.0196         0.5796         0.0612         0.0858         0.0160         &lt;0.0007         0.0005         &lt;0.0003         &lt;0.0004         &lt;0.0003         &lt;0.0003         &lt;0.0003         &lt;0.0003         &lt;0.0003         &lt;0.0003         &lt;0.0003         &lt;0.0003         &lt;0.0003         &lt;0.0004         &lt;0.0004         &lt;0.0003         &lt;0.0003         &lt;0.0003         &lt;0.0004         &lt;0.0003         &lt;0.0004         &lt;0.0004         &lt;0.0004         &lt;0.0003         &lt;0.0004         &lt;0.0004         &lt;0.0004         &lt;0.0003         &lt;0.0004         &lt;0.0004</td> <td>88.38 39.35 0.0070 0.0469 0.0740 0.0742 &lt;0.003 0.0198 0.5796 0.0612 0.0863 0.0182 &lt;0.0077 0.0025 &lt;0.0077 0.0026 &lt;0.0077 0.0026 &lt;0.0077 0.0026 &lt;0.0077 0.0027 0.0277 0.0272</td> <td>R-04_rut_6</td> <td></td>	58.38         38.35         0.0070         0.0468         0.0742         <0.0036         0.0196         0.5796         0.0612         0.0858         0.0182         <0.0007         0.0005         <0.0003         <0.0196         0.5796         0.0612         0.0858         0.0160         <0.0007         0.0005         <0.0003         <0.0003         <0.0003         <0.0003         <0.0003         <0.0003         <0.0003         <0.0003         <0.0003         <0.0003         <0.0003         <0.0003         <0.0003         <0.0003         <0.0003         <0.0003         <0.0003         <0.0003         <0.0003         <0.0003         <0.0003         <0.0003         <0.0003         <0.0003         <0.0004         <0.0003         <0.0003         <0.0003         <0.0003         <0.0003         <0.0003         <0.0003         <0.0003         <0.0003         <0.0004         <0.0004         <0.0003         <0.0003         <0.0003         <0.0004         <0.0003         <0.0004         <0.0004         <0.0004         <0.0003         <0.0004         <0.0004         <0.0004         <0.0003         <0.0004         <0.0004         <0.0004         <0.0004         <0.0004         <0.0004         <0.0004         <0.0004         <0.0004         <0.0004         <0.0004         <0.0004	88.38 39.35 0.0070 0.0469 0.0740 0.0742 <0.003 0.0198 0.5796 0.0612 0.0863 0.0182 <0.0077 0.0025 <0.0077 0.0026 <0.0077 0.0026 <0.0077 0.0026 <0.0077 0.0027 0.0277 0.0272	R-04_rut_6																
58.38         39.35         0.0070         0.0469         0.0742         <0.0039         0.0798         0.0774         <0.00198         0.5795         0.0612         0.0685         0.0162         <0.0077         0.0198         0.5794         0.0277         0.1263         <0.0077         0.0115         <0.0011           58.71         39.52         0.0073         0.0281         0.0662         0.0039         <0.0039	58.38         39.35         0.0070         0.0469         0.0740         0.0742         <0.0039         0.0790         0.0746         0.0746         0.0736         0.0198         0.5796         0.0612         0.0686         0.0162         <0.0070         0.0026         <0.0014           58.77         39.46         0.0074         0.0746         0.0602         0.0039         0.0760         0.0767         0.0767         0.0769         0.0777         0.0777         0.0463         0.0760         0.0777         0.0463         0.0760         0.0777         0.0463         0.0777         0.0463         0.0777         0.0463         0.0777         0.0463         0.0777         0.0463         0.0777         0.0463         0.0777         0.0463         0.0777         0.0463         0.0777         0.0463         0.0777         0.0463         0.0777         0.0464         0.0777         0.0464         0.0777         0.0464         0.0777         0.0464         0.0777         0.0464         0.0777         0.0464         0.0777         0.0464         0.0077         0.0464         0.0074         0.0777         0.0464         0.0074         0.0777         0.0464         0.0077         0.0464         0.0074         0.0777         0.0044         0.0777	58.38         39.35         0.0070         0.0469         0.0740         0.0742         <0.003         <0.0196         0.5796         0.0612         0.0686         0.0182         <0.0077         0.0196	R-04_rut_7																
58.38         39.35         0.0070         0.0489         0.0742         0.0039         0.0198         0.5796         0.0612         0.0612         0.0039         0.0770         0.0749         0.0739         0.0770         0.0737         0.0618         0.0618         0.0168         0.0169         0.0037         0.0618         0.0037         0.0169         0.0037         0.0037         0.0169         0.0037         0.0037         0.0037         0.0037         0.0037         0.0037         0.0037         0.0046         0.0037         0.0043         0.0044         0.0037         0.0044         0.0047         0.0044 <td>58.38         39.35         0.0070         0.0469         0.0740         0.0039         0.0792         0.0018         0.5794         0.0612         0.0612         0.0612         0.0612         0.0613         0.0612         0.0612         0.0039         0.0740         0.0740         0.0039         0.0766         0.0039         0.0766         0.0039         0.0767         0.0037         0.0046         0.0037         0.0039         0.0767         0.0046         0.0046         0.0046         0.0046         0.0046         0.0046         0.0046         0.0047         0.0047         0.0047         0.0047         0.0047         0.0046         0.0047         0.0046         0.0047         0.0046         0.0047         0.0044         0.0047         0.0044         0.0044         0.0044         0.0044<td>58.36         39.55         0.0070         0.0469         0.0740         0.0198         0.5796         0.0615         0.0685         0.0186         0.0182         0.0070         0.0032         0.00469         0.0740         0.0742         0.0796         0.0685         0.0740         0.0742         0.0796         0.00469         0.0740         0.0786         0.00469         0.0040         0.0046         0.0770         0.0468         0.0046         0.0777         0.0468         0.0046         0.0777         0.0468         0.0049         0.0044         0.0777         0.0468         0.0049         0.0044         0.0777         0.0468         0.0049         0.0044</td><td>R-04_rut_8</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td>	58.38         39.35         0.0070         0.0469         0.0740         0.0039         0.0792         0.0018         0.5794         0.0612         0.0612         0.0612         0.0612         0.0613         0.0612         0.0612         0.0039         0.0740         0.0740         0.0039         0.0766         0.0039         0.0766         0.0039         0.0767         0.0037         0.0046         0.0037         0.0039         0.0767         0.0046         0.0046         0.0046         0.0046         0.0046         0.0046         0.0046         0.0047         0.0047         0.0047         0.0047         0.0047         0.0046         0.0047         0.0046         0.0047         0.0046         0.0047         0.0044         0.0047         0.0044         0.0044         0.0044         0.0044 <td>58.36         39.55         0.0070         0.0469         0.0740         0.0198         0.5796         0.0615         0.0685         0.0186         0.0182         0.0070         0.0032         0.00469         0.0740         0.0742         0.0796         0.0685         0.0740         0.0742         0.0796         0.00469         0.0740         0.0786         0.00469         0.0040         0.0046         0.0770         0.0468         0.0046         0.0777         0.0468         0.0046         0.0777         0.0468         0.0049         0.0044         0.0777         0.0468         0.0049         0.0044         0.0777         0.0468         0.0049         0.0044</td> <td>R-04_rut_8</td> <td></td>	58.36         39.55         0.0070         0.0469         0.0740         0.0198         0.5796         0.0615         0.0685         0.0186         0.0182         0.0070         0.0032         0.00469         0.0740         0.0742         0.0796         0.0685         0.0740         0.0742         0.0796         0.00469         0.0740         0.0786         0.00469         0.0040         0.0046         0.0770         0.0468         0.0046         0.0777         0.0468         0.0046         0.0777         0.0468         0.0049         0.0044         0.0777         0.0468         0.0049         0.0044         0.0777         0.0468         0.0049         0.0044	R-04_rut_8																
58.38         39.35         0.0070         0.0469         0.0742         0.0033         0.0198         0.6779         0.0612         0.0612         0.0612         0.0612         0.0612         0.0612         0.0612         0.0613         0.0740         0.0779 <td>58.38         39.35         0.0070         0.0469         0.0742         0.0030         0.0198         0.5796         0.0612         0.0685         0.0612         0.0692         0.0703         0.0703         0.0704         0.0037         0.0030         0.0704<td>58.38 59.50 00070 0.0469 0.0742 0.0030 0.0198 0.5796 0.0612 0.0665 0.0182 0.0079 0.0025 0.0010 0.0025 0.0010 0.0025 0.0010 0.0025 0.0010 0.0025 0.0020 0.0021 0.0025 0.0020 0.0021 0.0025 0.0020 0.0025 0.0020 0.0025 0.0020 0.0025 0.0020 0.0025 0.0020 0.0025 0.0020 0.0025 0.002</td><td>R-04_rut_9</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td>	58.38         39.35         0.0070         0.0469         0.0742         0.0030         0.0198         0.5796         0.0612         0.0685         0.0612         0.0692         0.0703         0.0703         0.0704         0.0037         0.0030         0.0704 <td>58.38 59.50 00070 0.0469 0.0742 0.0030 0.0198 0.5796 0.0612 0.0665 0.0182 0.0079 0.0025 0.0010 0.0025 0.0010 0.0025 0.0010 0.0025 0.0010 0.0025 0.0020 0.0021 0.0025 0.0020 0.0021 0.0025 0.0020 0.0025 0.0020 0.0025 0.0020 0.0025 0.0020 0.0025 0.0020 0.0025 0.0020 0.0025 0.002</td> <td>R-04_rut_9</td> <td></td>	58.38 59.50 00070 0.0469 0.0742 0.0030 0.0198 0.5796 0.0612 0.0665 0.0182 0.0079 0.0025 0.0010 0.0025 0.0010 0.0025 0.0010 0.0025 0.0010 0.0025 0.0020 0.0021 0.0025 0.0020 0.0021 0.0025 0.0020 0.0025 0.0020 0.0025 0.0020 0.0025 0.0020 0.0025 0.0020 0.0025 0.0020 0.0025 0.002	R-04_rut_9																
58.71         39.52         0.0034         0.0261         0.0169         0.0037           0.0477         0.0463         0.0169         0.0277         0.1677         0.0463         0.0169         0.0150          0.0177         0.0160         0.0171          0.0171         0.0171         0.0072         0.0177         0.0077         0.0177         0.0074         0.0177         0.0074         0.0177         0.0077         0.0077         0.0077         0.0077         0.0077         0.0077         0.0077         0.0077         0.0077         0.0077         0.0077         0.0077         0.0077         0.0077         0.0077         0.0077         0.0077         0.0077 <td>58.71         39.52         0.0039         0.0261         0.0169         0.0030         &lt;0.0037         &lt;0.0037         &lt;0.0043         0.0277         0.1639         &lt;0.0169         &lt;0.0169         &lt;0.0169         &lt;0.0169         &lt;0.0169         &lt;0.0169         &lt;0.0177         &lt;0.0163         &lt;0.0169         &lt;0.0177         &lt;0.0177         &lt;0.0169         &lt;0.0177         &lt;0.0177&lt;</td> <td>58.71 39.52 0.0039 0.0261 0.0159 0.0662 0.0030 &lt;0.0037 0.0043 0.0277 0.1653 0.0169 &lt;0.0077 0.0043 0.0277 0.1679 0.0043 0.0057 0.0043 0.0077 0.0043 0.0057 0.0044 0.0077 0.0044 0.0044 0.0044 0.</td> <td>R-05_rut_1</td> <td>58.38</td> <td>39.35</td> <td>0.0070</td> <td>0.0469</td> <td>0.0740</td> <td>0.0742</td> <td>&lt;0.003</td> <td>0.0198</td> <td>0.5795</td> <td>0.0612</td> <td>0.0858</td> <td>0.0182</td> <td>&lt;0.007</td> <td>0.0025</td> <td>&lt;0.01</td> <td>0.0117</td>	58.71         39.52         0.0039         0.0261         0.0169         0.0030         <0.0037         <0.0037         <0.0043         0.0277         0.1639         <0.0169         <0.0169         <0.0169         <0.0169         <0.0169         <0.0169         <0.0177         <0.0163         <0.0169         <0.0177         <0.0177         <0.0169         <0.0177         <0.0177         <0.0177         <0.0177         <0.0177         <0.0177         <0.0177         <0.0177         <0.0177         <0.0177         <0.0177         <0.0177         <0.0177         <0.0177         <0.0177         <0.0177         <0.0177         <0.0177         <0.0177         <0.0177         <0.0177         <0.0177         <0.0177         <0.0177         <0.0177         <0.0177         <0.0177         <0.0177         <0.0177         <0.0177         <0.0177         <0.0177         <0.0177         <0.0177         <0.0177         <0.0177         <0.0177         <0.0177         <0.0177         <0.0177         <0.0177         <0.0177         <0.0177         <0.0177         <0.0177         <0.0177         <0.0177         <0.0177         <0.0177         <0.0177         <0.0177         <0.0177         <0.0177         <0.0177         <0.0177         <0.0177         <0.0177         <0.0177         <0.0177<	58.71 39.52 0.0039 0.0261 0.0159 0.0662 0.0030 <0.0037 0.0043 0.0277 0.1653 0.0169 <0.0077 0.0043 0.0277 0.1679 0.0043 0.0057 0.0043 0.0077 0.0043 0.0057 0.0044 0.0077 0.0044 0.0044 0.0044 0.	R-05_rut_1	58.38	39.35	0.0070	0.0469	0.0740	0.0742	<0.003	0.0198	0.5795	0.0612	0.0858	0.0182	<0.007	0.0025	<0.01	0.0117
58.85         39.46         0.0074         0.0191         0.0143         0.0258         <0.0037         <0.0041         0.1579         <0.0046         0.0042         <0.0037         <0.0041         0.1579         <0.0044         0.0162         <0.0043         <0.0044         <0.0073         <0.0041         0.1579         <0.0044         <0.0147         <0.0044         <0.0073         <0.0049         <0.0044         <0.0044         <0.0073         <0.0044         <0.0044         <0.0049         <0.0049         <0.0044         <0.0044         <0.0044         <0.0044         <0.0044         <0.0044         <0.0044         <0.0044         <0.0044         <0.0044         <0.0044         <0.0044         <0.0044         <0.0044         <0.0044         <0.0044         <0.0044         <0.0044         <0.0044         <0.0044         <0.0044         <0.0044         <0.0044         <0.0044         <0.0044         <0.0044         <0.0044         <0.0044         <0.0044         <0.0044         <0.0044         <0.0044         <0.0044         <0.0044         <0.0044         <0.0044         <0.0044         <0.0044         <0.0044         <0.0044         <0.0044         <0.0044         <0.0044         <0.0044         <0.0044         <0.0044         <0.0044         <0.0044         <0.0044 <td>58.85         39.46         0.0074         0.0191         0.0143         0.0258         &lt;0.0037         &lt;0.0047         0.0467         0.0468         0.0277         &lt;0.0049         &lt;0.0047         &lt;0.0044         &lt;0.0073         &lt;0.0049         &lt;0.0047         &lt;0.0047         &lt;0.0044         &lt;0.0047         &lt;0.0044         &lt;0.0044         &lt;0.0049         &lt;0.0037         &lt;0.0044         &lt;0.0044<!--</td--><td>58.85 39.46 0.0074 0.0191 0.0143 0.0258 &lt;0.003 &lt;0.0040 0.0077 0.0041 0.1579 0.0042 0.00192 0.0073 0.0041 0.1579 0.0042 0.00192 0.00192 0.00192 0.0019 0.00192 0.0019 0.00192 0.0019 0.00192 0.0019 0.00192 0.0019 0.</td><td>R-05_rut_2</td><td>58.71</td><td>39.52</td><td>0.0039</td><td>0.0261</td><td>0.0159</td><td>0.0602</td><td>0.0030</td><td>&lt;0.003</td><td>0.5704</td><td>0.0327</td><td>0.1263</td><td>0.0150</td><td>&lt;0.007</td><td>0.0115</td><td>&lt;0.01</td><td>&lt;0.01</td></td>	58.85         39.46         0.0074         0.0191         0.0143         0.0258         <0.0037         <0.0047         0.0467         0.0468         0.0277         <0.0049         <0.0047         <0.0047         <0.0047         <0.0047         <0.0047         <0.0047         <0.0047         <0.0047         <0.0047         <0.0047         <0.0047         <0.0047         <0.0044         <0.0073         <0.0049         <0.0047         <0.0047         <0.0044         <0.0047         <0.0044         <0.0044         <0.0049         <0.0037         <0.0044         <0.0044         <0.0044         <0.0044         <0.0044         <0.0044         <0.0044         <0.0044         <0.0044         <0.0044         <0.0044         <0.0044         <0.0044         <0.0044         <0.0044         <0.0044         <0.0044         <0.0044         <0.0044         <0.0044         <0.0044         <0.0044         <0.0044         <0.0044         <0.0044         <0.0044         <0.0044         <0.0044         <0.0044         <0.0044         <0.0044         <0.0044         <0.0044         <0.0044         <0.0044         <0.0044         <0.0044         <0.0044         <0.0044         <0.0044         <0.0044         <0.0044         <0.0044         <0.0044         <0.0044         <0.0044         <0.0044 </td <td>58.85 39.46 0.0074 0.0191 0.0143 0.0258 &lt;0.003 &lt;0.0040 0.0077 0.0041 0.1579 0.0042 0.00192 0.0073 0.0041 0.1579 0.0042 0.00192 0.00192 0.00192 0.0019 0.00192 0.0019 0.00192 0.0019 0.00192 0.0019 0.00192 0.0019 0.</td> <td>R-05_rut_2</td> <td>58.71</td> <td>39.52</td> <td>0.0039</td> <td>0.0261</td> <td>0.0159</td> <td>0.0602</td> <td>0.0030</td> <td>&lt;0.003</td> <td>0.5704</td> <td>0.0327</td> <td>0.1263</td> <td>0.0150</td> <td>&lt;0.007</td> <td>0.0115</td> <td>&lt;0.01</td> <td>&lt;0.01</td>	58.85 39.46 0.0074 0.0191 0.0143 0.0258 <0.003 <0.0040 0.0077 0.0041 0.1579 0.0042 0.00192 0.0073 0.0041 0.1579 0.0042 0.00192 0.00192 0.00192 0.0019 0.00192 0.0019 0.00192 0.0019 0.00192 0.0019 0.00192 0.0019 0.	R-05_rut_2	58.71	39.52	0.0039	0.0261	0.0159	0.0602	0.0030	<0.003	0.5704	0.0327	0.1263	0.0150	<0.007	0.0115	<0.01	<0.01
59.23         39.80         0.0786         0.0044         0.0021         0.1400         0.0037         0.0041         0.1579         <0.0044         0.0162         0.0044         0.0023         0.0044         0.0023         0.0049         0.0047         0.0047         <0.0044         0.0073         <0.0049         <0.0044         0.0073         <0.0049         <0.0044         <0.0044         0.0073         <0.0049         <0.0047         <0.0044         <0.0044         <0.0044         <0.0044         <0.0074         <0.0044         <0.0073         <0.0044         <0.0074         <0.0044         <0.0073         <0.0044         <0.0074         <0.0044         <0.0074         <0.0044         <0.0074         <0.0044         <0.0074         <0.0044         <0.0074         <0.0044         <0.0074         <0.0074         <0.0074         <0.0074         <0.0074         <0.0074         <0.0074         <0.0074         <0.0074         <0.0074         <0.0074         <0.0074         <0.0074         <0.0074         <0.0074         <0.0074         <0.0074         <0.0074         <0.0074         <0.0074         <0.0074         <0.0074         <0.0074         <0.0074         <0.0074         <0.0074         <0.0074         <0.0074         <0.0074         <0.0074         <0.0074	59.23         39.80         0.0786         0.0044         0.0021         0.1400         0.0037         0.0041         0.1579         <0.0044         0.0162         0.0049         0.0167         0.0033         <0.0034         <0.0034         <0.0034         <0.0034         <0.0034         <0.0014           59.17         39.78         0.0332         0.0062         0.0019         0.4160         0.0073         <0.0044	59.23 39.80 0.0786 0.0084 0.0021 0.1400 0.0037 0.0041 0.1579 0.0044 0.0172 0.0042 0.00482 0.0042 0.0019 0.0037 0.0049 0.0073 0.0049 0.0073 0.0049 0.0073 0.0049 0.0074 0.0049 0.0074 0.0049 0.0074 0.0049 0.0074 0.0049 0.0074 0.0049 0.0074 0.0049 0.0074 0.0074 0.0049 0.0074 0.0	R-05_rut_3	58.85	39.46	0.0074	0.0191	0.0143	0.0258	<0.003	<0.003	0.2757	0.0463	0.0068	0.0217	<0.007	0.0042	<0.01	<0.01
59.23         39.80         0.0786         0.0044         0.0023         0.0460         0.0647         0.0034         0.0044         0.1679         0.0043         0.0044         0.0041         0.1400         0.0043         0.0044 <td>59.23         39.80         0.0786         0.0044         0.0027         0.0047         0.1677         0.0042         0.0162         0.0049         0.1670         0.0047         0.0044<td>59.23         39.80         0.0786         0.0044         0.0273         0.0404         0.1579         0.0041         0.1579         0.0041         0.1579         0.0043         0.0046         0.0047         0.0043         0.0044         0.0044         0.0073         0.0043         0.0044<td>R-05_rut_4</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td></td>	59.23         39.80         0.0786         0.0044         0.0027         0.0047         0.1677         0.0042         0.0162         0.0049         0.1670         0.0047         0.0044 <td>59.23         39.80         0.0786         0.0044         0.0273         0.0404         0.1579         0.0041         0.1579         0.0041         0.1579         0.0043         0.0046         0.0047         0.0043         0.0044         0.0044         0.0073         0.0043         0.0044<td>R-05_rut_4</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td>	59.23         39.80         0.0786         0.0044         0.0273         0.0404         0.1579         0.0041         0.1579         0.0041         0.1579         0.0043         0.0046         0.0047         0.0043         0.0044         0.0044         0.0073         0.0043         0.0044 <td>R-05_rut_4</td> <td></td>	R-05_rut_4																
59,23         38,80         0.0376         0.0044         0.0047         0.0441         0.1470         0.0441         0.1479         < 0.0441         0.1479         < 0.0441         0.1479         < 0.0442         0.0142         0.0142         0.0142         0.0142         0.0142         0.0142         0.0142         0.0142         0.0142         0.0142         0.0142         0.0142         0.0142         0.0142         0.0144         0.0144         0.0144         0.0144         0.0144         0.0144         0.0144         0.0144         0.0144         0.0044         0.0144         0.0044         0.0144         0.0044         0.0044         0.0034         0.0044         0.0034         0.0044         0.0034         0.0044         0.0044         0.0034         0.0044         0.0	59,23         38,80         0.0786         0.0044         0.0037         0.0441         0.1579         < 0.0042         0.0142         0.0482         < 0.007         0.0033         < 0.001           59,11         39,78         0.0332         0.0049         0.04160         0.0073         < 0.0033	59.23 38.80 0.0786 0.0044 0.0021 0.1400 0.0037 0.0041 0.1579 0.004 0.0162 0.0462 0.0042 0.0033 0.0045 0.0045 0.0044 0.0021 0.1400 0.0037 0.0044 0.0032 0.1047 0.0046 0.0172 0.0044 0.0012 0.1047 0.0044 0.0012 0.1047 0.0044 0.0012 0.1047 0.0044 0.0012 0.1047 0.0044 0.0012 0.1049 0.104	3-05_rut_5																
59.11         39.78         0.0332         0.0062         0.0019         0.4160         0.0073         < 0.0047         < 0.0047         < 0.0047         < 0.0047         < 0.0047         < 0.0047         < 0.0047         < 0.0049         < 0.0033         < 0.0047         < 0.0049         < 0.0047         < 0.0044         0.0073         < 0.0049         < 0.0037         < 0.0044         0.0074         < 0.0049         < 0.0049         < 0.0044         < 0.0044         < 0.0044         < 0.0044         < 0.0044         < 0.0044         < 0.0044         < 0.0044         < 0.0044         < 0.0044         < 0.0044         < 0.0044         < 0.0044         < 0.0044         < 0.0044         < 0.0044         < 0.0044         < 0.0044         < 0.0044         < 0.0044         < 0.0044         < 0.0044         < 0.0044         < 0.0044         < 0.0044         < 0.0044         < 0.0044         < 0.0044         < 0.0044         < 0.0044         < 0.0044         < 0.0044         < 0.0044         < 0.0044         < 0.0044         < 0.0044         < 0.0044         < 0.0044         < 0.0044         < 0.0044         < 0.0044         < 0.0044         < 0.0044         < 0.0044         < 0.0044         < 0.0044         < 0.0044         < 0.0044         < 0.0044         < 0.0044         < 0.0044         < 0.0044	59.11         39.78         0.0332         0.0062         0.0019         0.4160         0.0073         < 0.0034         < 0.0177         < 0.004         0.0117         0.0024         < 0.006         0.0342         < 0.001           59.02         39.83         0.0377         0.0017         0.0044         0.0033         0.0226         0.0066         0.0049         0.0033         0.0226         0.0066         0.0377         0.0044         0.0040         0.0044 <td>59.11 39.78 0.0332 0.0062 0.0019 0.4160 0.0073 &lt; 0.0033 0.1047 &lt; 0.004 0.0117 0.0234 &lt; 0.006 0.0342 &lt; 0.001 0.0018</td> <td>G012183_rut_1</td> <td>59.23</td> <td>39.80</td> <td>0.0786</td> <td>0.0044</td> <td>0.0021</td> <td>0.1400</td> <td>0.0037</td> <td>0.0041</td> <td>0.1579</td> <td>&lt;0.004</td> <td>0.0162</td> <td>0.0482</td> <td>&lt;0.007</td> <td>0.0353</td> <td>&lt;0.01</td> <td>&lt;0.01</td>	59.11 39.78 0.0332 0.0062 0.0019 0.4160 0.0073 < 0.0033 0.1047 < 0.004 0.0117 0.0234 < 0.006 0.0342 < 0.001 0.0018	G012183_rut_1	59.23	39.80	0.0786	0.0044	0.0021	0.1400	0.0037	0.0041	0.1579	<0.004	0.0162	0.0482	<0.007	0.0353	<0.01	<0.01
59,02         39,83         0.0317         0.0125         <0.0049         <0.0033         0.0737         <0.0040         0.0073         <0.0044         0.0073         <0.0044         <0.0073         <0.0044         <0.0044         <0.0044         <0.0044         <0.0044         <0.0044         <0.0044         <0.0044         <0.0044         <0.0044         <0.0044         <0.0044         <0.0044         <0.0044         <0.0044         <0.0044         <0.0044         <0.0044         <0.0044         <0.0044         <0.0044         <0.0044         <0.0044         <0.0044         <0.0044         <0.0044         <0.0044         <0.0044         <0.0044         <0.0044         <0.0044         <0.0044         <0.0044         <0.0044         <0.0044         <0.0044         <0.0044         <0.0044         <0.0044         <0.0044         <0.0044         <0.0044         <0.0044         <0.0044         <0.0044         <0.0044         <0.0044         <0.0044         <0.0044         <0.0044         <0.0044         <0.0044         <0.0044         <0.0044         <0.0044         <0.0044         <0.0044         <0.0044         <0.0044         <0.0044         <0.0044         <0.0044         <0.0044         <0.0044         <0.0044         <0.0044         <0.0044         <0.0044         <0.0044	59.02 39.83 0.0317 0.0125 <0.001 0.6326 0.0049 <0.0037 <0.004 0.0077 <0.004 0.0201 0.0501 0.0061 <0.0061 <0.0061 <0.0061 <0.0061 <0.0061 <0.0061 <0.0061 <0.0061 <0.0061 <0.0061 <0.0061 <0.0061 <0.0061 <0.0061 <0.0061 <0.0061 <0.0061 <0.0061 <0.0061 <0.0061 <0.0061 <0.0061 <0.0061 <0.0061 <0.0061 <0.0061 <0.0061 <0.0061 <0.0061 <0.0061 <0.0061 <0.0061 <0.0061 <0.0061 <0.0061 <0.0061 <0.0061 <0.0061 <0.0061 <0.0061 <0.0061 <0.0061 <0.0061 <0.0061 <0.0061 <0.0061 <0.0061 <0.0061 <0.0061 <0.0061 <0.0061 <0.0061 <0.0061 <0.0061 <0.0061 <0.0061 <0.0061 <0.0061 <0.0061 <0.0061 <0.0061 <0.0061 <0.0061 <0.0061 <0.0061 <0.0061 <0.0061 <0.0061 <0.0061 <0.0061 <0.0061 <0.0061 <0.0061 <0.0061 <0.0061 <0.0061 <0.0061 <0.0061 <0.0061 <0.0061 <0.0061 <0.0061 <0.0061 <0.0061 <0.0061 <0.0061 <0.0061 <0.0061 <0.0061 <0.0061 <0.0061 <0.0061 <0.0061 <0.0061 <0.0061 <0.0061 <0.0061 <0.0061 <0.0061 <0.0061 <0.0061 <0.0061 <0.0061 <0.0061 <0.0061 <0.0061 <0.0061 <0.0061 <0.0061 <0.0061 <0.0061 <0.0061 <0.0061 <0.0061 <0.0061 <0.0061 <0.0061 <0.0061 <0.0061 <0.0061 <0.0061 <0.0061 <0.0061 <0.0061 <0.0061 <0.0061 <0.0061 <0.0061 <0.0061 <0.0061 <0.0061 <0.0061 <0.0061 <0.0061 <0.0061 <0.0061 <0.0061 <0.0061 <0.0061 <0.0061 <0.0061 <0.0061 <0.0061 <0.0061 <0.0061 <0.0061 <0.0061 <0.0061 <0.0061 <0.0061 <0.0061 <0.0061 <0.0061 <0.0061 <0.0061 <0.0061 <0.0061 <0.0061 <0.0061 <0.0061 <0.0061 <0.0061 <0.0061 <0.0061 <0.0061 <0.0061 <0.0061 <0.0061 <0.0061 <0.0061 <0.0061 <0.0061 <0.0061 <0.0061 <0.0061 <0.0061 <0.0061 <0.0061 <0.0061 <0.0061 <0.0061 <0.0061 <0.0061 <0.0061 <0.0061 <0.0061 <0.0061 <0.0061 <0.0061 <0.0061 <0.0061 <0.0061 <0.0061 <0.0061 <0.0061 <0.0061 <0.0061 <0.0061 <0.0061 <0.0061 <0.0061 <0.0061 <0.0061 <0.0061 <0.0061 <0.0061 <0.0061 <0.0061 <0.0061 <0.0061 <0.0061 <0.0061 <0.0061 <0.0061 <0.0061 <0.0061 <0.0061 <0.0061 <0.0061 <0.0061 <0.0061 <0.0061 <0.0061 <0.0061 <0.0061 <0.0061 <0.0061 <0.0061 <0.0061 <0.0061 <0.0061 <0.0061 <0.0061 <0.0061 <0.0061 <0.0061 <0.0061 <0.0061 <0.0061 <0.0061 <0.0061 <0.0061 <0.0061 <0.00	59.02 39.83 0.0317 0.0155 <0.001 0.6826 0.0049 <0.0037 <0.004 0.0070 0.0050 0.0066 0.0068 0.0068 0.0068 0.0070 0.0059 0.0070 0.0059 0.0069 0.0068 0.0068 0.0068 0.0070 0.0059 0.0070 0.0059 0.0070 0.0059 0.0070 0.0059 0.0070 0.0	G012183_rut_10	59.11	39.78	0.0332	0.0062	0.0019	0.4160	0.0073	<0.003	0.1047	<0.004	0.0117	0.0234	<0.006	0.0342	<0.01	<0.01
58.38         39.62         0.1169         0.0055         <0.001         0.0060         <0.0033         0.2266         <0.0340         0.0540         0.0350         0.0066         0.3661         <0.01           58.85         39.81         0.2251         0.0079         0.0067         0.3918         0.0044         <0.003	58.38 39.62 0.1169 0.0055 <0.001 0.6060 0.0060 <0.0037 0.2266 <0.004 0.0350 0.0560 0.0360 0.0360 0.0361 <0.0109 0.0361 <0.00109 0.0361 <0.00109 0.0361 <0.00109 0.0361 <0.00109 0.0361 <0.00109 0.0361 <0.00109 0.0361 <0.00109 0.0361 <0.00109 0.0361 <0.00109 0.0361 <0.00109 0.0361 <0.00109 0.0361 <0.00109 0.0361 <0.00109 0.0361 <0.00109 0.0361 <0.00109 0.0361 <0.00109 0.0361 <0.00109 0.0361 <0.00109 0.0361 <0.00109 0.0361 <0.00109 0.0361 <0.00109 0.0361 <0.00109 0.0361 <0.00109 0.0361 <0.00109 0.0361 <0.00109 0.0361 <0.00109 0.0361 <0.00109 0.0361 <0.00109 0.0361 <0.00109 0.0361 <0.00109 0.0361 <0.00109 0.0361 <0.00109 0.0361 <0.00109 0.0361 <0.00109 0.0361 <0.00109 0.0361 <0.00109 0.0361 <0.00109 0.0361 <0.00109 0.0361 <0.00109 0.0361 <0.00109 0.0361 <0.00109 0.0361 <0.00109 0.0361 <0.00109 0.0361 <0.00109 0.0361 <0.00109 0.0361 <0.00109 0.0361 <0.00109 0.0361 <0.00109 0.0361 <0.00109 0.0361 <0.00109 0.0361 <0.00109 0.0361 <0.00109 0.0361 <0.00109 0.0361 <0.00109 0.0361 <0.00109 0.0361 <0.00109 0.0361 <0.00109 0.0361 <0.00109 0.0361 <0.00109 0.0361 <0.00109 0.0361 <0.00109 0.0361 <0.00109 0.0361 <0.00109 0.0361 <0.00109 0.0361 <0.00109 0.0361 <0.00109 0.0361 <0.00109 0.0361 <0.00109 0.0361 <0.00109 0.0361 <0.00109 0.0361 <0.00109 0.0361 <0.00109 0.0361 <0.00109 0.0361 <0.00109 0.0361 <0.00109 0.0361 <0.00109 0.0361 <0.00109 0.0361 <0.00109 0.0361 <0.00109 0.0361 <0.00109 0.0361 <0.00109 0.0361 <0.00109 0.0361 <0.00109 0.0361 <0.00109 0.0361 <0.00109 0.0361 <0.00109 0.0361 <0.00109 0.0361 <0.00109 0.0361 <0.00109 0.0361 <0.00109 0.0361 <0.00109 0.0361 <0.00109 0.0361 <0.00109 0.0361 <0.00109 0.0361 <0.00109 0.0361 <0.00109 0.0361 <0.00109 0.0361 <0.00109 0.0361 <0.00109 0.0361 <0.00109 0.0361 <0.00109 0.0361 <0.00109 0.0361 <0.00109 0.0361 <0.00109 0.0361 <0.00109 0.0361 <0.00109 0.0361 <0.00109 0.0361 <0.00109 0.0361 <0.00109 0.0361 <0.00109 0.0361 <0.00109 0.0361 <0.00109 0.0361 <0.00109 0.0361 <0.00109 0.0361 <0.00109 0.0361 <0.00109 0.0361 <0.00109 0.0361 <0.00109 0.0361 <0.00109 0.0361 <0.00109 0.0361 <0.0010	58.38 39.62 0.1169 0.0055 <0.001 0.0060 <0.0033 0.2266 <0.004 0.0540 0.0530 0.0066 0.3661 <0.01760 0.0065	G012183_rut_11	59.02	39.83	0.0317	0.0125	<0.001	0.6326	0.0049	<0.003	0.0737	<0.004	0.0201	0.0061	<0.006	0.0618	<0.01	0.0148
58.85         39.81         0.2251         0.0079         0.0057         0.3918         0.0044         <0.003         0.1610         <0.0040         0.0120         0.0131         <0.0077         0.0126         <0.0126         <0.0175         <0.0175         <0.0175         <0.0175         <0.0175         <0.0175         <0.0175         <0.0175         <0.0175         <0.0175         <0.0175         <0.0175         <0.0175         <0.0175         <0.0175         <0.0175         <0.0175         <0.0175         <0.0175         <0.0175         <0.0175         <0.0175         <0.0175         <0.0175         <0.0175         <0.0175         <0.0175         <0.0175         <0.0175         <0.0175         <0.0175         <0.0175         <0.0175         <0.0175         <0.0175         <0.0175         <0.0175         <0.0175         <0.0175         <0.0175         <0.0175         <0.0175         <0.0175         <0.0175         <0.0175         <0.0175         <0.0175         <0.0175         <0.0175         <0.0175         <0.0175         <0.0175         <0.0175         <0.0175         <0.0175         <0.0175         <0.0175         <0.0175         <0.0175         <0.0175         <0.0175         <0.0175         <0.0175         <0.0175         <0.0175         <0.0175         <0.0175	58.85 39.81 0.2251 0.0079 0.0057 0.3918 0.0044 <0.0033 0.1610 <0.004 0.0120 0.0331 <0.0079 0.0057 0.3918 0.0044 <0.0033 0.1610 <0.004 0.0040 0.0130 0	58.85 39.81 0.2251 0.0079 0.0057 0.3318 0.0044 <0.0033 0.1610 <0.004 0.0120 0.0131 <0.0079 0.0057 0.3318 0.0044 <0.0033 0.1500 0.0132 0	G012183_rut_12	58.38	39.62	0.1169	0.0055	<0.001	0.6060	09000	<0.003	0.2266	<0.004	0.0540	0.0350	0.0066	0.3661	<0.01	0.0546
59.12 40.06 0.1270 0.0033 < 0.001 0.4681 0.0040 < 0.0033 0.3290 < 0.004 0.0457 0.0182 < 0.006 0.3332 < 0.011	59.12 40.06 0.1270 0.0093 < 0.001 0.4681 0.0040 < 0.003 0.3290 < 0.0044 0.0457 0.0182 < 0.006 0.3332 < 0.01  59.77 40.29 0.0096 0.0430 0.0199 0.3064 0.0042 < 0.003 0.119 < 0.004 0.0067 0.0399 < 0.007 0.0285 < 0.01  59.42 40.18 0.1738 0.0051 < 0.001 0.5609 0.0123 < 0.003 0.1002 < 0.004 0.0147 0.0120 < 0.007 0.0742 < 0.01  59.42 0.0131 0.0028 < 0.001 0.0599 < 0.0063 < 0.003 0.0987 < 0.004 0.0299 < 0.006 < 0.007 0.0694 < 0.01  All Jamonte and in set 0. (FMADA)	59.12 40.06 0.1270 0.0083 < 0.001 0.4681 0.0040 < 0.0033 0.3290 < 0.0044 0.0457 0.0182 < 0.006 0.3332 < 0.01 59.77 40.29 0.0066 0.0430 0.0199 0.3064 0.0042 < 0.003 0.1319 < 0.004 0.0067 0.0369 < 0.007 0.0285 < 0.01 59.42 40.18 0.1738 0.0051 < 0.001 0.5609 0.0123 < 0.003 0.1002 < 0.004 0.0147 0.0120 < 0.007 0.0742 < 0.01 59.30 39.90 0.0331 0.0028 < 0.001 0.083 < 0.003 0.0087 < 0.004 0.0259 < 0.006 < 0.007 0.0894 < 0.01 All elements are in wt. % (EMPA).	G012183_rut_13	58.85	39.81	0.2251	0.0079	0.0057	0.3918	0.0044	<0.003	0.1610	<0.004	0.0120	0.0331	<0.007	0.1256	<0.01	0.0206
59.77 40.29 0.0966 0.0430 0.0199 0.3064 0.0042 <0.003 0.1319 <0.0067 0.0369 <0.007 0.0285 <0.01	59,77 40,29 0.0966 0.0430 0.0189 0.3064 0.0042 <0.003 0.1319 <0.004 0.0067 0.0389 <0.007 0.0285 <0.01 59,42 40.18 0.1738 0.0051 <0.001 0.5609 0.0123 <0.003 0.1002 <0.004 0.0147 0.0140 <0.007 0.0594 <0.01 59,42 40.10 0.028 <0.001 0.3990 0.0063 <0.003 0.0987 <0.004 0.0259 <0.006 <0.007 0.0594 <0.01 50,004 0.0259 <0.006 <0.007 0.0594 <0.01 50,004 0.0259 <0.006 <0.007 0.0594 <0.01	59.77 40.29 0.0966 0.0430 0.0199 0.3064 0.0042 <0.003 0.1319 <0.004 0.0067 0.0369 <0.007 0.0285 <0.01 59.42 40.18 0.1738 0.0051 <0.0051 0.0050 0.0123 <0.003 0.1002 <0.004 0.0147 0.0120 <0.007 0.0742 <0.01 59.30 39.90 0.028 <0.001 0.3990 0.0063 <0.003 <0.0087 <0.004 0.0259 <0.006 <0.007 0.0694 <0.01 All elements are in wt. % (EMPA).	IG012183_rut_14	59.12	40.06	0.1270	0.0093	<0.001	0.4681	0.0040	<0.003	0.3290	<0.004	0.0457	0.0182	<0.006	0.3332	<0.01	0.0560
59,42 40.18 0.1738 0.0051 <0.001 0.5609 0.0123 <0.003 0.1002 <0.004 0.0147 0.0120 <0.007 0.0742 <0.01 6.3990 0.0063 <0.003 <0.0087 <0.004 0.0259 <0.006 <0.007 0.0694 <0.01	59.42 40.18 0.1738 0.0051 <0.001 0.5609 0.0123 <0.003 0.1002 <0.004 0.0147 0.0120 <0.007 0.0742 <0.01	59.42 40.18 0.1738 0.0051 <0.001 0.5609 0.0123 <0.003 0.1002 <0.004 0.0147 0.0120 <0.007 0.0742 <0.01	G012183_rut_15	29.77	40.29	0.0966	0.0430	0.0199	0.3064	0.0042	<0.003	0.1319	<0.004	0.0067	0.0369	<0.007	0.0285	<0.01	0.0355
59.30 39.90 0.0331 0.0028 <0.001 0.3990 0.0063 <0.003 0.0987 <0.004 0.0259 <0.006 <0.007 0.0694 <0.01	59.30 39.90 0.0331 0.0028 <0.001 0.3990 0.0063 <0.003 0.0987 <0.004 0.0259 <0.006 <0.007 0.0694 <0.01	59.30 39.90 0.0331 0.0028 <0.001 0.3890 0.0063 <0.003 0.0887 <0.004 0.0259 <0.006 <0.007 0.0694 <0.01 All elements are in wt. % (EMPA).	G012183_rut_16	59.42	40.18	0.1738	0.0051	<0.001	0.5609	0.0123	<0.003	0.1002	<0.004	0.0147	0.0120	<0.007	0.0742	<0.01	0.0131
	All alamonts are in wt 0% (EMD	All elements are in wt. % (EMP	G012183_rut_17	59.30	39.90	0.0331	0.0028	<0.001	0.3990	0.0063	<0.003	0.0987	<0.004	0.0259	<0.006	<0.007	0.0694	<0.01	<0.01

Appendix C: Eastern Sunda arc rutile trace element chemistry (EMPA)

												•	,	•		
Analysis ID	F	0	ΙĄ	Si	Ca	۸	Cr	Mn	Fe	Cu	Zr	QN	Мо	Sn	Та	W
UG012183_rut_18	29.08	39.74	0.0279	0.0059	0.0020	0.3079	<0.003	<0.003	0.2084	<0.004	<0.005	0.0197	<0.006	0.0597	<0.01	<0.01
UG012183_rut_19	59.14	39.85	0.0731	0.0068	<0.001	0.3855	0.0104	<0.003	0.1157	<0.004	0.0338	0.0121	<0.006	0.0823	<0.01	0.0282
UG012183_rut_2	58.65	39.49	0.0471	0.0129	0.0078	0.3363	0.0049	0.0655	0.1807	<0.004	0.0137	0.0211	<0.007	0.0229	<0.01	<0.01
UG012183_rut_20	58.47	39.67	0.1888	0.0065	<0.001	0.3652	<0.003	<0.003	0.3507	<0.004	0.0623	0.0220	<0.007	0.4467	<0.01	0.0195
UG012183_rut_21	59.34	39.91	0.0176	0.0046	<0.001	0.3952	0.0104	<0.003	0.0988	<0.004	0.0189	0.0063	<0.006	0.0655	<0.01	<0.01
UG012183_rut_22	59.30	40.12	0.0649	0.0565	<0.001	0.6673	0.0100	<0.003	0.0855	<0.004	0.0163	0.0179	<0.006	0.0291	<0.01	0.0347
UG012183_rut_23	56.74	39.39	0.6518	0.5460	<0.001	0.3653	0.0086	<0.003	0.1292	<0.004	0.0316	>0.006	<0.007	0.0891	<0.01	0.1019
UG012183_rut_25	29.08	39.75	0.0369	0.0072	0.0018	0.3114	0.0095	<0.003	0.1404	<0.004	0.0113	0.0715	<0.007	0.0503	<0.01	0.0192
UG012183_rut_26	57.21	39.02	0.0961	0.1290	<0.001	0.7724	0.0038	<0.003	0.1381	<0.004	0.0850	0.0243	<0.006	0.3668	<0.01	0.0729
UG012183_rut_27	59.03	39.71	0.0391	0.0129	0.0081	0.3506	<0.003	0.0089	0.1256	<0.004	0.0065	0.0286	<0.007	0.0088	<0.01	<0.01
UG012183_rut_28	59.09	39.79	0.0329	0.0075	<0.001	0.3470	0.0073	<0.003	0.1266	<0.004	0.0410	0.0261	<0.007	0.1116	<0.01	0.0767
UG012183_rut_29	58.78	39.60	0.1327	0.0057	0.0019	0.0932	0.0221	<0.003	0.2105	<0.004	0.0171	0.0362	<0.006	0.1876	<0.01	0.0599
UG012183_rut_3	58.94	39.74	0.0636	0.0035	0.0021	0.3386	0.0121	<0.003	0.2472	<0.004	0.0170	>0.006	<0.006	0.1708	<0.01	0.0493
UG012183_rut_30	59.14	39.80	0.0287	0.0052	<0.001	0.4646	0.0071	<0.003	0.0669	<0.004	0.0120	0.0219	<0.007	0.0292	<0.01	<0.01
UG012183_rut_4	58.82	39.70	0.1194	0.0474	0.0238	0.2860	0.0058	<0.003	0.1385	<0.004	0.0058	0.0479	<0.006	0.0457	<0.01	0.0683
UG012183_rut_5	58.81	39.68	0.0351	0.0156	0.0028	0.4642	0.0048	<0.003	0.1205	<0.004	0.0285	0.0111	<0.006	0.2238	<0.01	0.0408
UG012183_rut_6	58.80	39.76	0.1264	0.0484	0.0018	0.3201	0.0108	<0.003	0.1818	<0.004	0.0236	<0.006	<0.006	0.2531	<0.01	0.0825
UG012183_rut_7	59.06	39.78	0.0780	0.0057	0.0014	0.4124	0.0087	<0.003	0.0952	<0.004	0.0178	0.0161	<0.006	0.0383	<0.01	<0.01
UG012183_rut_8	58.69	39.72	0.1226	0.0040	0.0018	0.5134	0.0067	<0.003	0.1605	<0.004	0.0248	0.0092	<0.007	0.2101	<0.01	0.1694
UG012183_rut_9	59.22	39.86	0.0332	<0.002	<0.001	0.3979	0.0073	<0.003	0.0977	<0.004	0.0305	0.0112	<0.006	0.1067	<0.01	0.0133
UG012185_rut_1	58.44	39.53	0.0141	0.0241	0.0082	0.3307	<0.003	<0.003	0.6200	<0.004	0.0198	0.1064	<0.007	0.1429	<0.01	0.0777
UG012185_rut_10	58.47	39.45	0.0000	0.0318	0.0032	0.0521	<0.003	<0.003	0.4709	<0.004	0.0249	0.1291	0.0139	0.2871	<0.01	0.1394
UG012185_rut_11	58.26	39.35	0.0230	0.0228	0.0022	<0.02	<0.003	0.0044	0.7266	<0.004	0.0129	0.1903	0.0100	0.2678	<0.01	0.0479
UG012185_rut_12																
UG012185_rut_13																
UG012185_rut_14																
UG012185_rut_15																
UG012185_rut_2	58.58	39.68	0.0438	0.0325	0.0032	0.4715	0.0046	<0.003	0.5684	<0.004	0.0415	0.0451	0.0092	0.1095	<0.01	0.0346
UG012185_rut_3	58.65	39.54	0.0174	0.0339	0.0027	0.0443	<0.003	<0.003	0.5149	<0.004	0.0327	0.1149	0.0162	0.1642	<0.01	0.0798
UG012185_rut_4	58.53	39.52	0.0240	0.0318	0.0045	0.0622	<0.003	<0.003	0.5426	<0.004	0.0313	0.1867	0.0226	0.1636	<0.01	0.1221
UG012185_rut_5	59.12	39.81	0.0060	0.0412	0.0023	0.0323	<0.003	<0.003	0.4534	<0.004	0.0154	0.0941	0.0070	0.2111	<0.01	0.0506
UG012185_rut_6	58.72	39.56	0.0129	0.0092	0.0032	<0.02	<0.003	0.0095	0.5648	0.0100	0.0274	0.0666	0.0068	0.2402	<0.01	0.0997
UG012185_rut_7	58.73	39.51	0.0149	0.0087	0.0028	<0.02	<0.003	<0.003	0.4842	<0.004	0.0247	0.0411	0.0104	0.1765	<0.01	0.1013
UG012185_rut_8	58.49	39.46	0.0325	0.0158	0.0024	0.0901	<0.003	<0.003	0.7010	<0.004	0.0319	0.0773	0.0066	0.1256	<0.01	0.0684
UG012185_rut_9	0.03	0.10	0.0025	0.0655	0.0046	<0.011	<0.002	<0.002	<0.002	<0.002	<0.004	<0.005	<0.005	0.0016	<0.006	0.0000
UG012187_rut_1	58.85	39.68	0.0253	0.0106	0.0053	0.3469	<0.003	<0.003	0.4604	<0.004	0.0113	0.0420	<0.007	0.0132	<0.01	0.0155
UG012187_rut_10	58.82	39.71	0.0273	0.0260	0.0063	0.4376	<0.003	<0.003	0.3669	<0.004	0.0495	0.0115	<0.007	0.0148	<0.01	0.0115
UG012187_rut_11	58.81	39.93	0.3416	0.0169	<0.001	0.5921	0.0086	<0.003	0.0150	<0.004	<0.006	0.0119	<0.006	0.1031	<0.01	<0.01
UG012187_rut_12	59.18	39.83	0.2215	0.0114	<0.002	0.1263	<0.003	<0.003	0.0179	0.0051	<0.005	0.0119	<0.006	0.0238	<0.01	<0.01
UG012187_rut_13																
UG012187_rut_14																
UG012187_rut_15																
UG012187_rut_2	59.03	39.71	0.0591	0.0129	0.0035	0.1792	0.0052	0.0075	0.3169	0.0086	0.0184	0.0328	<0.007	0.0182	<0.01	0.0221
UG012187_rut_3	58.50	39.71	0.2873	0.0066	<0.001	0.3355	0.0055	<0.003	0.0128	<0.004	0.0146	0.0345	<0.007	0.6935	<0.01	<0.01
UG012187_rut_4	58.82	39.80	0.3315	0.0111	0.0016	0.3186	0.0069	<0.003	0.0138	<0.004	0.0057	0.0257	<0.006	0.0826	<0.01	<0.01
UG012187_rut_5	29.06	39.89	0.2357	0.0226	0.0020	0.3143	<0.003	<0.003	0.0705	<0.004	0.0089	0.0236	<0.006	0.0468	<0.01	<0.01
UG012187_rut_6	58.53	39.40	0.0629	0.0089	0.0100	0.1843	<0.003	0.0219	0.3351	<0.004	0.0239	0.0545	<0.007	0.0189	<0.01	0.0166
UG012187_rut_7	29.09	39.87	0.0264	0.0118	<0.001	0.4565	<0.003	<0.003	0.3547	<0.004	0.0553	0.0146	<0.006	0.0160	<0.01	<0.01
UG012187_rut_8	59.10	39.79	0.0754	0.0335	0.0063	0.2532	0.0083	<0.003	0.1772	<0.004	0.0064	0.0235	<0.007	0.0313	<0.01	0.0350
UG012187_rut_9	28.98	39.68	0.0292	9900:0	<0.002	0.1899	0.0051	<0.003	0.4624	<0.004	0.0125	0.0340	<0.007	0.0122	<0.01	<0.01
*AII e	*All elements are in wt. % (EMPA)	e in wt. 🤇	% (EMPA	<u>.</u>												

Appendix C: Eastern Sunda arc rutile trace element chemistry (EMPA)

1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	200		,		5	3		5		,	3	i	2	2	5	3	:
	f.m.n.																
	UG012188_rut_10	58.49	39.49	0.0182	0.0136	0.0048	0.3764	<0.003	<0.003	0.5994	<0.004	<0.005	0.0087	<0.007	0.0479	<0.01	0.0887
	UG012188_rut_11	58.04	39.26	0.0292	0.0194	<0.001	0.3684	<0.003	<0.003	0.6395	<0.004	0.0221	<0.006	<0.007	0.2240	<0.01	0.0510
1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,	UG012188_rut_11	58.04	39.26	0.0292	0.0194	<0.001	0.3684	<0.003	<0.003	0.6395	<0.004	0.0221	<0.006	<0.007	0.2240	<0.01	0.0510
14   15   16   17   17   17   17   17   17   17	UG012188_rut_12	58.98	39.95	0.0352	0.0182	<0.001	0.5084	<0.003	<0.003	0.5412	<0.004	0.0134	9600.0	<0.007	0.2231	<0.01	0.1253
1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,	UG012188_rut_13	58.08	39.45	0.0337	0.0208	<0.001	0.6565	0.0040	<0.003	0.6478	<0.004	0.0192	<0.006	<0.007	0.2275	<0.01	0.1430
	UG012188_rut_14																
1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,	UG012188_rut_15	58.61	39.75	0.0266	0.0100	0.0024	0.6183	0.0037	<0.003	0.5638	<0.004	0.0182	<0.006	<0.007	0.3167	<0.01	0.0602
518.0         38.94         CROST         CROST <th< td=""><td>UG012188_rut_16</td><td>58.50</td><td>39.72</td><td>0.0319</td><td>0.0269</td><td>&lt;0.001</td><td>0.6222</td><td>0.0046</td><td>&lt;0.003</td><td>0.5751</td><td>&lt;0.004</td><td>0.0217</td><td>&lt;0.006</td><td>&lt;0.007</td><td>0.3225</td><td>&lt;0.01</td><td>0.1150</td></th<>	UG012188_rut_16	58.50	39.72	0.0319	0.0269	<0.001	0.6222	0.0046	<0.003	0.5751	<0.004	0.0217	<0.006	<0.007	0.3225	<0.01	0.1150
67.73         38.24         0.0255         0.0255         0.0105 <td>UG012188_rut_17</td> <td>58.08</td> <td>39.64</td> <td>0.0332</td> <td>0.0119</td> <td>&lt;0.001</td> <td>0.8544</td> <td>&lt;0.003</td> <td>&lt;0.003</td> <td>0.7002</td> <td>&lt;0.004</td> <td>0.0267</td> <td>0.0070</td> <td>&lt;0.007</td> <td>0.2168</td> <td>&lt;0.011</td> <td>0.5195</td>	UG012188_rut_17	58.08	39.64	0.0332	0.0119	<0.001	0.8544	<0.003	<0.003	0.7002	<0.004	0.0267	0.0070	<0.007	0.2168	<0.011	0.5195
55.57         35.57         CATAS         COUNTY         COUNTY         CATAS         COUNTY         CATAS	UG012188_rut_18	57.79	39.34	0.0375	0.0162	0.0015	0.4073	<0.003	<0.003	0.8480	<0.004	0.0099	0.0093	<0.007	0.2478	<0.011	0.6970
58.4         38.6         O.0747         O.0798         O.0717         O.0708         O.0709	UG012188_rut_19	58.57	39.62	0.0256	0.0134	<0.001	0.4744	<0.003	<0.003	0.5206	<0.004	0.0102	<0.006	<0.006	0.2014	<0.01	0.0996
9.9.2         3.8.4         0.0440         0.0144 <td>UG012188_rut_2</td> <td>58.44</td> <td>39.52</td> <td>0.0474</td> <td>0.0089</td> <td>0.0018</td> <td>0.3440</td> <td>&lt;0.003</td> <td>&lt;0.003</td> <td>0.6349</td> <td>&lt;0.004</td> <td>0.0192</td> <td>&lt;0.006</td> <td>&lt;0.007</td> <td>0.2133</td> <td>&lt;0.01</td> <td>0.0848</td>	UG012188_rut_2	58.44	39.52	0.0474	0.0089	0.0018	0.3440	<0.003	<0.003	0.6349	<0.004	0.0192	<0.006	<0.007	0.2133	<0.01	0.0848
93.30         38.90         COCKEZ         COCKEZ <td>UG012188_rut_20</td> <td>57.81</td> <td>39.46</td> <td>0.0460</td> <td>0.0144</td> <td>&lt;0.001</td> <td>0.6744</td> <td>0.0068</td> <td>&lt;0.003</td> <td>0.7573</td> <td>&lt;0.004</td> <td>0.0236</td> <td>&lt;0.006</td> <td>&lt;0.007</td> <td>0.3603</td> <td>&lt;0.011</td> <td>0.5896</td>	UG012188_rut_20	57.81	39.46	0.0460	0.0144	<0.001	0.6744	0.0068	<0.003	0.7573	<0.004	0.0236	<0.006	<0.007	0.3603	<0.011	0.5896
8.8.2         3.8.4         0.044         0.045         0.044         0.045         0.044         0.045         0.044         0.045         0.044         0.045         0.044         0.045         0.044         0.045         0.044         0.045         0.044         0.045         0.045         0.044         0.045         0.045         0.044         0.045         0.045         0.044         0.045         0.045         0.044         0.045         0.044         0.045         0.045         0.044         0.045         0.044         0.044         0.045         0.044 <th< td=""><td>UG012188 rut 21</td><td>58.28</td><td>39.60</td><td>0.0252</td><td>0.0151</td><td>&lt;0.001</td><td>0.6560</td><td>0.0037</td><td>&lt;0.003</td><td>0.6248</td><td>&lt;0.004</td><td>0.0221</td><td>0.0067</td><td>&lt;0.006</td><td>0.2399</td><td>&lt;0.011</td><td>0.2541</td></th<>	UG012188 rut 21	58.28	39.60	0.0252	0.0151	<0.001	0.6560	0.0037	<0.003	0.6248	<0.004	0.0221	0.0067	<0.006	0.2399	<0.011	0.2541
58.2         38.7         Office of the color         4.00         CARD         CARD </td <td>UG012188 rut 22</td> <td>58.39</td> <td>39.57</td> <td>0.0348</td> <td>0.0151</td> <td>0.0023</td> <td>0.5604</td> <td>0.0041</td> <td>&lt;0.003</td> <td>0.5568</td> <td>&lt;0.004</td> <td>0.0173</td> <td>0.0081</td> <td>&lt;0.007</td> <td>0.1889</td> <td>&lt;0.01</td> <td>0.1185</td>	UG012188 rut 22	58.39	39.57	0.0348	0.0151	0.0023	0.5604	0.0041	<0.003	0.5568	<0.004	0.0173	0.0081	<0.007	0.1889	<0.01	0.1185
58.58         39.74         0.0269         0.0099         0.0019 <td>UG012188_rut_23</td> <td>59.05</td> <td>39.73</td> <td>0.0163</td> <td>0.0129</td> <td>&lt;0.001</td> <td>0.1078</td> <td>&lt;0.003</td> <td>&lt;0.003</td> <td>0.6275</td> <td>&lt;0.004</td> <td>0.0328</td> <td>&lt;0.006</td> <td>&lt;0.007</td> <td>0.1228</td> <td>&lt;0.01</td> <td>&lt;0.01</td>	UG012188_rut_23	59.05	39.73	0.0163	0.0129	<0.001	0.1078	<0.003	<0.003	0.6275	<0.004	0.0328	<0.006	<0.007	0.1228	<0.01	<0.01
58.18         38.74         CORDINATION         CORDI	UG012188 rut 24																
54.2         38.9         (1077)         (1078)         (1071)         (1078)         (1071)         (1078)         (1071)	UG012188 rut 26	58.83		0.0295	0.0092	0.0046	0.4705	<0.003	<0.003	0.4853	<0.004	<0.006	<0.006	<0.006	0.0873	<0.01	0.0333
5514         38.56         0.077         0.0087         0.0070         0.0087         0.0008         0.0008         0.0014         0.0046	UG012188 rut 27	58.28	39.59	0.0209	0.0080	<0.001	0.7056	<0.003	<0.003	0.6813	<0.004	0.0174	0.0089	<0.007	0.1684	<0.011	0.2121
58.5         38.6         0.0026	UG012188_rut_29	59.14	39.86	0.0170	0.0087	<0.001	0.5218	<0.003	<0.003	0.2013	<0.004	<0.005	<0.006	<0.006	0.0559	<0.01	<0.0>
51.56         39.46         0.00269         0.00724         0.07250         0.00269         0.	UG012188 rut 3	58.53	39.62	0.0343	0.0091	<0.001	0.4487	0.0034	<0.003	0.6228	<0.004	0.0146	0.0105	<0.007	0.1847	<0.01	0.1155
6.6.1         3.8.4         0.0229         0.0174         4.001         0.0239         0.0174         4.001         0.0239         0.0174         4.001         0.0239         0.0174         4.002         0.0174         4.004         0.0174         0.0014	UG012188 rut 30	57.95	39.49	0.0289	0.0102	0.0022	0.7223	0.0039	<0.003	0.7123	<0.004	0.0254	0.0112	<0.006	0.2272	<0.011	0.5279
58.4         38.4         0.0345         0.0145         0.0025         0.4188         0.0049         0.0049	UG012188 rut 31	58.51	39.60	0.0299	0.0124	<0.001	0.3450	<0.003	<0.003	0.6623	<0.004	0.0176	0.0097	<0.006	0.2718	<0.01	0.1477
58.7         38.9         0.0224         0.0143         0.0229	UG012188_rut_32	58.14	39.48	0.0346	0.0115	0.0023	0.4158	0.0031	<0.003	0.8477	<0.004	0.0214	<0.006	<0.007	0.1812	<0.011	0.4086
68.3         98.2         0.0026         0.0102         0.0426         0.0020	UG012188_rut_33	58.73	39.69	0.0227	0.0143	0.0029	0.5236	<0.003	<0.003	0.5029	<0.004	<0.005	0.0198	<0.006	0.0264	<0.01	0.0321
58.42         39.73         0.0399         0.0008         0.0008         0.0008         0.0008         0.0009 <td>UG012188_rut_34</td> <td>58.31</td> <td>39.52</td> <td>0.0264</td> <td>0.0100</td> <td>&lt;0.002</td> <td>0.4426</td> <td>&lt;0.003</td> <td>&lt;0.003</td> <td>0.6618</td> <td>&lt;0.004</td> <td>0.0138</td> <td>0.0448</td> <td>&lt;0.007</td> <td>0.1443</td> <td>&lt;0.011</td> <td>0.2893</td>	UG012188_rut_34	58.31	39.52	0.0264	0.0100	<0.002	0.4426	<0.003	<0.003	0.6618	<0.004	0.0138	0.0448	<0.007	0.1443	<0.011	0.2893
56.63         39.82         0.0389         0.0048         0.001         0.0745         0.0049         0.001         0.0745         0.0049         0.0014         0.0049         0.0014         0.0049	UG012188_rut_4	58.42	39.73	0.0309	0.0082	<0.001	0.7856	0.0088	<0.003	0.5901	<0.004	0.0261	<0.006	<0.007	0.2722	<0.01	0.1810
58.90         40.20         0.0167         0.0169         <0.0001         1.1088         0.0044         <0.003         0.0462         <0.0044         0.0017         <0.007         0.1637         <0.001           88.70         39.54         0.0243         0.0127         <0.001	UG012188_rut_5	58.63	39.82	0.0389	0.0098	<0.001	0.6745	0.0091	<0.003	0.6372	<0.004	0.0139	<0.006	<0.007	0.1476	<0.011	0.2160
58.50         39.71         0.0258         0.0121         <0.0036         6.05586         <0.0044         0.0119         0.04540         <0.0079         0.01249         <0.0003         0.05586         <0.0044         <0.0019         <0.0049         <0.0003         0.0149         <0.0004         <0.0004         <0.0004         <0.0004         <0.0004         <0.0004         <0.0004         <0.0004         <0.0004         <0.0004         <0.0004         <0.0004         <0.0004         <0.0004         <0.0004         <0.0004         <0.0004         <0.0004         <0.0004         <0.0004         <0.0004         <0.0004         <0.0004         <0.0004         <0.0004         <0.0004         <0.0004         <0.0004         <0.0004         <0.0004         <0.0004         <0.0004         <0.0004         <0.0004         <0.0004         <0.0004         <0.0004         <0.0004         <0.0004         <0.0004         <0.0004         <0.0004         <0.0004         <0.0004         <0.0004         <0.0004         <0.0004         <0.0004         <0.0004         <0.0004         <0.0004         <0.0004         <0.0004         <0.0004         <0.0004         <0.0004         <0.0004         <0.0004         <0.0004         <0.0004         <0.0004         <0.0004         <0.0004         <0.000	UG012188_rut_6	59.02	40.20	0.0167	0.0199	<0.001	1.1068	0.0064	<0.003	0.4562	<0.004	0.0071	0.0074	<0.006	0.1637	<0.01	0.0928
68.7         39.56         0.0240         0.0177         <0.001         0.003         0.003         0.0044         <0.004         <0.004         <0.004         <0.004         <0.004         <0.004         <0.004         <0.004         <0.004         <0.004         <0.004         <0.004         <0.004         <0.004         <0.004         <0.004         <0.004         <0.004         <0.004         <0.004         <0.004         <0.004         <0.004         <0.004         <0.004         <0.004         <0.004         <0.004         <0.004         <0.004         <0.004         <0.004         <0.004         <0.004         <0.004         <0.004         <0.004         <0.004         <0.004         <0.004         <0.004         <0.004         <0.004         <0.004         <0.004         <0.004         <0.004         <0.004         <0.004         <0.004         <0.004         <0.004         <0.004         <0.004         <0.004         <0.004         <0.004         <0.004         <0.004         <0.004         <0.004         <0.004         <0.004         <0.004         <0.004         <0.004         <0.004         <0.004         <0.004         <0.004         <0.004         <0.004         <0.004         <0.004         <0.004         <0.004         <0.004	UG012188_rut_7	58.59	39.71	0.0258	0.0121	<0.001	0.6249	<0.003	0.0036	0.5368	<0.004	0.0119	0.0432	<0.007	0.0643	<0.01	0.1655
58.35         39.55         0.0050         0.0154         0.0041         0.0043         0.0044         0.0036         0.0044         0.0156         0.0040         0.0157         0.0044         0.0156         0.0040         0.0156         0.0040         0.0156         0.0040         0.0156         0.0040         0.0156         0.0044         0.0156         0.0146         0.0156         0.0146         0.0166         0.0146         0.0168         0.0044         0.0044         0.0168         0.0044         0.0044         0.0169         0.0146         0.0166         0.0146         0.0166         0.0146         0.0168         0.0044         0.0044         0.0146         0.0047         0.0044         0.0044         0.0146         0.0047         0.0044 <td>UG012188_rut_8</td> <td>58.70</td> <td>39.56</td> <td>0.0240</td> <td>0.0127</td> <td>&lt;0.001</td> <td>0.1000</td> <td>&lt;0.003</td> <td>&lt;0.003</td> <td>0.7098</td> <td>&lt;0.004</td> <td>&lt;0.005</td> <td>0.0168</td> <td>&lt;0.007</td> <td>0.0899</td> <td>&lt;0.01</td> <td>0.1342</td>	UG012188_rut_8	58.70	39.56	0.0240	0.0127	<0.001	0.1000	<0.003	<0.003	0.7098	<0.004	<0.005	0.0168	<0.007	0.0899	<0.01	0.1342
58.35         39.38         0.0079         0.0153         0.0080         -0.0030         -0.0030         0.0140         -0.0044         0.0188         0.0972         0.0140         0.1565         -0.01           58.59         39.46         0.0178         0.0077         0.0016         0.0168         -0.003         -0.004         0.0049         0.0199         0.0199         0.0192         0.0041         0.0041         0.0041         0.0042         0.0041         0.0041         0.0042         0.0042         0.0041         0.0042         0.0042         0.0042         0.0042         0.0041         0.0042         0.0042         0.0042         0.0042         0.0042         0.0044         0.0044         0.0042         0.0142         0.0044         0.0044         0.0244         0.0162         0.0162         0.0041         0.0044         0.0044         0.0244         0.0162         0.0162         0.0142	UG012188_rut_9	58.35	39.53	0.0303	0.0154	<0.001	0.3635	0.0044	<0.003	0.7312	<0.004	0.0195	0.0085	<0.007	0.2132	<0.011	0.2298
58.59         39.46         0.0168         0.0077         0.0066         0.0037         0.0048         0.0049         0.0340         0.0277         0.0340         0.0239         0.0126         0.0032         0.0041         0.0349         0.0044         0.0340         0.0277         0.0459         0.0044         0.0370         0.0044         0.0340         0.0277         0.0459         0.0044         0.0374         0.0489         0.0044         0.0374         0.0489         0.0044         0.0274         0.0269         0.0178         0.0049         0.0049         0.0044         0.0274         0.0274         0.0276         0.0178         0.0049         0.0041         0.0049         0.0044         0.0274         0.0274         0.0274         0.0274         0.0274         0.0049         0.0041         0.0041         0.0044         0.0044         0.0274         0.0049         0.0041         0.0044         0.0044         0.0274         0.0049         0.0044         0.0044         0.0049         0.0044         0.0044         0.0049         0.0044         0.0044         0.0044         0.0044         0.0044         0.0044         0.0044         0.0044         0.0044         0.0044         0.0044         0.0044         0.0044         0.0044         0.0044 <td>UG012189_rut_1</td> <td>58.35</td> <td>39.38</td> <td>0.0079</td> <td>0.0153</td> <td>0.0028</td> <td>0.0830</td> <td>&lt;0.003</td> <td>&lt;0.003</td> <td>0.7140</td> <td>&lt;0.004</td> <td>0.0188</td> <td>0.0972</td> <td>0.0140</td> <td>0.1505</td> <td>&lt;0.01</td> <td>0.1207</td>	UG012189_rut_1	58.35	39.38	0.0079	0.0153	0.0028	0.0830	<0.003	<0.003	0.7140	<0.004	0.0188	0.0972	0.0140	0.1505	<0.01	0.1207
58.65         39.52         0.0177         0.0142         <0.0034         0.0244         0.0034         0.0041         0.0682         <0.0044         0.0277         0.0665         0.0216         0.0132         <0.0142         <0.0041         <0.0034         <0.0044         <0.0034         <0.0044         <0.0034         <0.0044         <0.0034         <0.0044         <0.0034         <0.0044         <0.0034         <0.0044         <0.0034         <0.0034         <0.0044         <0.0034         <0.0034         <0.0034         <0.0034         <0.0034         <0.0034         <0.0034         <0.0034         <0.0034         <0.0034         <0.0034         <0.0034         <0.0034         <0.0034         <0.0034         <0.0034         <0.0034         <0.0034         <0.0034         <0.0034         <0.0034         <0.0034         <0.0034         <0.0034         <0.0034         <0.0034         <0.0034         <0.0034         <0.0034         <0.0034         <0.0034         <0.0034         <0.0034         <0.0034         <0.0034         <0.0034         <0.0034         <0.0034         <0.0034         <0.0034         <0.0034         <0.0034         <0.0034         <0.0034         <0.0034         <0.0034         <0.0034         <0.0034         <0.0034         <0.0034         <0.0034	UG012189_rut_10	58.59	39.46	0.0186	0.0077	0.0016	0.1066	<0.003	<0.003	0.6480	<0.004	0.0310	0.0292	0.0126	0.0832	<0.01	0.0221
58.20         39.40         0.0598         0.01168         0.0034         0.0047         0.0034         0.0058         0.0047         0.0034         0.0058         0.0047         0.0035         0.0046         0.0047         0.0036         0.0047         0.0036         0.0049         0.0047         0.0037         0.0049         0.0047         0.0037         0.0049         0.0047         0.0037         0.0049         0.0047         0.0037         0.0049         0.0047         0.0049         0.0047         0.0049         0.0047         0.0049         0.0047         0.0049         0.0047         0.0049         0.0047         0.0049         0.0047         0.0049         0.0047         0.0049         0.0047         0.0049         0.0047         0.0049         0.0047         0.0049 </td <td>UG012189_rut_11</td> <td>58.65</td> <td>39.52</td> <td>0.0177</td> <td>0.0142</td> <td>&lt;0.001</td> <td>0.0370</td> <td>&lt;0.003</td> <td>0.0041</td> <td>0.6882</td> <td>&lt;0.004</td> <td>0.0277</td> <td>0.0655</td> <td>0.0216</td> <td>0.1132</td> <td>&lt;0.01</td> <td>0.0202</td>	UG012189_rut_11	58.65	39.52	0.0177	0.0142	<0.001	0.0370	<0.003	0.0041	0.6882	<0.004	0.0277	0.0655	0.0216	0.1132	<0.01	0.0202
58.20         39.40         0.0589         0.0168         0.0047   <	UG012189_rut_12																
57.28         38.94         0.0229         0.0216         <0.0051         0.0056	UG012189_rut_13	58.20	39.40	0.0598	0.0168	0.0034	0.2646	0.0047	<0.003	0.6185	<0.004	0.0364	0.1233	0.0162	0.0986	<0.01	0.1510
58.53         39.54         0.0168         0.0294         0.0031         0.0490         0.0317           0.0440         0.0317         < 0.0034         0.0475         < 0.0044         0.0249         0.0767         < 0.0034         0.0767         < 0.0034         0.0767         < 0.0034         0.0767         < 0.0034         0.0768         < 0.0034         0.0768         < 0.0034         0.0768         < 0.0034         0.0768         < 0.0034         0.0768         < 0.0034         0.0768         < 0.0034         0.0768         < 0.0034         0.0768         < 0.0034         0.0768         < 0.0034         0.0768         < 0.0034         0.0768         < 0.0034         0.0768         < 0.0034         0.0768         < 0.0034         0.0768         < 0.0034         0.0768         < 0.0047         0.0047         0.0147         0.0147         0.0022         0.0032         < 0.0034         0.0758         < 0.0044         0.0047         0.0449         0.0147         0.0148         < 0.0014         0.0032         < 0.0032         < 0.0032         < 0.0032         < 0.0032         < 0.0032         < 0.0032         < 0.0032         < 0.0032         < 0.0032         < 0.0032         < 0.0032         < 0.0032         < 0.0032         < 0.0032         < 0.0032	UG012189_rut_14	57.28	38.94	0.0229	0.0216	<0.001	0.0325	0.0061	<0.003	1.0056	<0.005	0.0211	0.0693	<0.007	0.3921	<0.011	0.7629
58.59         39.58         0.0195         0.0204         0.1767         0.0059         < 0.0053         0.0054         0.0059         < 0.0054         0.0059         < 0.0054         0.0054         0.0059         < 0.0054         0.0059         < 0.0054         0.0059         < 0.0054         0.0059         0.0059         0.0059         < 0.0054         0.0059         0.0044         0.0049         0.0149         0.0146         0.0149	UG012189_rut_15	58.63	39.54	0.0168	0.0294	0.0031	0.0490	0.0317	<0.003	0.6470	<0.004	0.0224	0.0933	0.0129	0.0989	<0.01	0.0858
58.47         39.45         0.0100         0.0256         0.0256         0.0069         <0.0034         <0.0034         <0.0034         0.0134         0.0336         0.0375         0.0047         0.0438         0.0134         0.0356         0.0144         0.0034         0.0144         0.0047         0.0438         0.0134         0.0134         0.0145         0.0145         0.0257         0.0029         0.3191         0.0056         <0.0034         0.0447         0.0434         0.0346         0.0134         0.0134         0.0134         0.0134         0.0134         0.0134         0.0134         0.0134         0.0134         0.0134         0.0134         0.0134         0.0134         0.0134         0.0134         0.0134         0.0134         0.0147         0.0147         0.0147         0.0147         0.0147         0.0147         0.0147         0.0148         0.0147         0.0148         0.0147         0.0148         0.0147         0.0148         0.0147         0.0148         0.0144         0.0148         0.0032         0.0032         0.0034         0.0034         0.0149         0.0144         0.0144         0.0144         0.0144         0.0144         0.0144         0.0144         0.0144         0.0144         0.0144         0.0144         0.014	UG012189_rut_16	58.59	39.58	0.0195	0.0120	0.0024	0.1767	0.0059	<0.003	0.6660	<0.004	0.0479	0.1641	0.0209	0.0776	<0.01	0.0576
84.1         39.55         0.0125         0.0257         0.0059         0.3191         0.0055         <0.0073         <0.0073         0.0074         0.0074 </td <td>UG012189_rut_17</td> <td>58.47</td> <td>39.45</td> <td>0.0100</td> <td>0.0207</td> <td>0.0026</td> <td>0.2356</td> <td>6900'0</td> <td>&lt;0.003</td> <td>0.6349</td> <td>&lt;0.004</td> <td>0.0138</td> <td>0.0353</td> <td>0.0075</td> <td>0.1148</td> <td>&lt;0.01</td> <td>0.0240</td>	UG012189_rut_17	58.47	39.45	0.0100	0.0207	0.0026	0.2356	6900'0	<0.003	0.6349	<0.004	0.0138	0.0353	0.0075	0.1148	<0.01	0.0240
58.57         39.61         0.0111         0.0373         <0.001         0.3145         0.0022         <0.003         <0.0033         <0.0034         <0.0044         <0.0044         <0.0034         <0.0049         <0.0049         <0.0049         <0.0049         <0.0049         <0.0049         <0.0049         <0.0049         <0.0049         <0.0049         <0.0049         <0.0049         <0.0049         <0.0049         <0.0049         <0.0049         <0.0049         <0.0049         <0.0049         <0.0049         <0.0049         <0.0049         <0.0049         <0.0049         <0.0049         <0.0049         <0.0049         <0.0049         <0.0049         <0.0049         <0.0049         <0.0049         <0.0049         <0.0049         <0.0049         <0.0049         <0.0049         <0.0049         <0.0049         <0.0049         <0.0049         <0.0049         <0.0049         <0.0049         <0.0049         <0.0049         <0.0049         <0.0049         <0.0049         <0.0049         <0.0049         <0.0049         <0.0049         <0.0049         <0.0049         <0.0049         <0.0049         <0.0049         <0.0049         <0.0049         <0.0049         <0.0049         <0.0049         <0.0049         <0.0049         <0.0049         <0.0049         <0.0049         <0.0049<	UG012189_rut_18	58.41	39.52	0.0125	0.0257	0.0029	0.3191	0.0055	<0.003	0.7582	0.0047	0.0433	0.1346	0.0131	0.1125	<0.01	0.044
58.63         39.51         0.047         0.0238         0.052         0.0538         <0.004         0.0349         0.0558         0.0149         0.0687         <0.01           58.86         39.69         0.0146         0.0181         <0.001	UG012189_rut_19	58.57	39.61	0.0111	0.0373	<0.001	0.3145	0.0062	<0.003	0.5947	<0.004	0.0346	0.1407	0.0185	0.0764	<0.01	0.0300
58.86         39.69         0.0146         0.0181         < 0.001         0.1755         0.0032         < 0.003         0.004         0.0482         0.0535         0.0167         0.0851         < 0.01           58.40         39.49         0.0111         0.0118         < 0.001	UG012189_rut_2	58.63	39.51	0.0147	0.0238	0.0022	0.1503	0.0032	<0.003	0.5986	<0.004	0.0319	0.0508	0.0113	0.0687	<0.01	0.0267
1 58.40 39.49 0.0111 0.0118 <	UG012189_rut_20	58.86	39.69	0.0146	0.0181	<0.001	0.1755	0.0032	<0.003	0.5731	<0.004	0.0482	0.0535	0.0167	0.0851	<0.01	0.0445
58.89 39,70 0.0148 0.0165 <-0.001 0.2297 <-0.003 <-0.003 0.5418 <-0.004 0.0309 0.0485 0.0099 0.0598 <-0.017	UG012189_rut_21	58.40	39.49	0.0111	0.0118	<0.001	0.1869	<0.003	<0.003	0.8524	<0.004	0.0349	0.1745	0.0174	0.0824	<0.01	<0.01
58.39 39.55 0.0159 0.0151 < 0.0001 0.0863 < 0.0003 0.6437 < 0.004 0.0416 0.1638 0.0157 0.0865 < 0.01	UG012189_rut_3	58.89	39.70	0.0148	0.0165	<0.001	0.2297	<0.003	<0.003	0.5418	<0.004	0.0309	0.0485	0.0099	0.0598	<0.01	0.0250
58.05 39.38 0.0146 0.0159 0.0017 0.2166 0.0046 <0.003 1.2433 0.0061 0.0476 0.0998 0.0125 0.0948 <0.01	UG012189_rut_4	58.39	39.52	0.0159	0.0151	<0.001	0.3948	0.0063	<0.003	0.6437	<0.004	0.0416	0.1638	0.0157	0.0685	<0.01	0.1139
58.67 39.63 0.0096 0.0226 <0.001 0.2831 0.0074 <0.003 0.6108 <0.004 0.0317 0.0844 0.0176 0.0779 <0.01	UG012189_rut_5	58.05	39.38	0.0146	0.0159	0.0017	0.2166	0.0046	<0.003	1.2433	0.0061	0.0476	0.0998	0.0125	0.0948	<0.01	0.0382
	11C012189 rut 6	50 67	20.62	9000	0.028	000	0 2024				1000	17000		0170	0		

Appendix C: Eastern Sunda arc rutile trace element chemistry (EMPA)

			l !									,	,			
Analysis ID	ij	0	ΑI	Si	Ca	^	Cr	Mn	Fe	Cu	Zr	Nb	Мо	Sn	Та	W
UG012189_rut_7	58.28	39.38	0.0188	0.0158	0.0017	0.0534	0.0035	<0.003	1.0394	<0.004	0.0324	0.0334	0.0257	0.0704	<0.01	0.1150
UG012189_rut_8	58.49	39.53	0.0159	0.0129	0.0041	0.2969	0.0074	<0.003	0.7062	<0.004	0.0253	0.0390	0.0078	0.0956	<0.01	0.0972
UG012189_rut_9	59.23	39.94	0.0151	0.0191	0.0027	0.1192	<0.003	<0.003	0.6474	<0.004	0.0387	0.0530	<0.007	0.1089	<0.01	0.1086
UG012191_rut_1	59.75	40.19	0.0329	0.0417	0.0193	0.0936	<0.003	0.0055	0.3614	<0.004	0.0683	0.0274	<0.007	0.0090	<0.01	<0.01
UG012191_rut_10	59.30	39.96	0.0319	0.0247	<0.001	0.3016	9900'0	<0.003	0.2422	<0.004	0.0288	0.0508	<0.007	0.0860	<0.01	0.0703
UG012191_rut_12	59.27	39.89	0.0300	0.0370	0.0019	0.1683	0.0095	<0.003	0.3415	<0.004	0.0301	0.0234	<0.007	0.0422	<0.01	0.0416
UG012191_rut_13	58.64	39.75	0.0369	0.0247	<0.001	0.3681	0.0215	<0.003	0.4247	<0.004	0.0181	0.0106	<0.007	0.3070	<0.011	0.4790
UG012191_rut_14	58.88	39.78	0.0929	0.0769	0.0025	0.2245	0.0241	<0.003	0.2450	<0.004	0.0652	<0.006	<0.007	0.0899	<0.01	0.1569
UG012191_rut_15	58.41	39.66	0.0779	0.0995	<0.001	0.2574	0.0274	<0.003	0.4006	<0.004	0.0153	<0.006	<0.007	0.3248	<0.011	0.4758
UG012191_rut_16	59.16	39.80	0.0325	0.0282	<0.001	0.1739	0.0112	<0.003	0.2667	<0.004	0.0407	0.0344	<0.007	0.0558	<0.01	0.0181
UG012191_rut_18	58.72	39.70	0.0254	0.0183	0.0026	0.2543	0.0823	<0.003	0.2841	<0.004	0.0478	<0.006	<0.007	0.4761	<0.011	0.1692
UG012191_rut_19	58.98	39.77	0.0530	0.0529	0.0334	0.2356	<0.003	<0.003	0.2552	<0.004	0.0444	0.0474	<0.007	0.0276	<0.01	0.0598
UG012191_rut_20	59.22	39.89	0.0266	0.0205	<0.001	0.1605	0.0043	<0.003	0.3634	<0.004	0.0552	0.1183	<0.007	0.0509	<0.01	0.0239
UG012191_rut_21	59.26	39.89	0.0319	0.0144	0.0018	0.2294	0.0087	<0.003	0.2756	<0.004	0.0276	0.0766	<0.007	0.0426	<0.01	0.0356
UG012191_rut_22	59.19	39.82	0.0365	0.0249	<0.001	0.2198	0.0100	<0.003	0.2436	<0.004	0.0243	0.0238	<0.007	0.0564	<0.01	0.0177
UG012191_rut_23	58.90	39.78	0.0399	0.0355	<0.001	0.3111	0.0122	<0.003	0.2723	<0.004	0.0135	0.0126	<0.007	0.2754	<0.011	0.1763
UG012191_rut_24	59.02	39.73	0.0207	0.0263	<0.001	0.2470	0.0209	<0.003	0.2465	<0.004	0.0213	0.0352	<0.006	0.0599	<0.01	0.0403
UG012191_rut_25	59.30	39.87	0.0676	0.0306	<0.001	0.0283	0.0073	<0.003	0.3258	<0.004	0.0398	0.0317	<0.007	0.0484	<0.01	0.0166
UG012191_rut_26	59.09	39.83	0.0351	0.0281	0.0144	0.2961	0.0130	<0.003	0.2752	<0.004	0.0160	0.0543	<0.007	0.0828	<0.01	0.0300
UG012191_rut_27	59.02	39.77	0.0239	0.0219	0.0049	0.3169	0.0075	<0.003	0.3309	0.0312	0.0111	0.0498	<0.007	0.0354	<0.01	0.0189
UG012191_rut_28	59.42	40.01	0.0520	0.0311	0.0022	0.2423	0.0098	<0.003	0.2785	<0.004	0.0152	0.0121	<0.007	0.0618	<0.01	0.0545
UG012191_rut_3	58.78	39.71	0.0257	0.0258	<0.001	0.2621	<0.003	<0.003	0.4010	<0.004	0.0351	0.0159	<0.006	0.2906	<0.011	0.2195
UG012191_rut_3	58.78	39.71	0.0257	0.0258	<0.001	0.2621	<0.003	<0.003	0.4010	<0.004	0.0351	0.0159	<0.006	0.2906	<0.011	0.2195
UG012191_rut_4	29.07	39.77	0.0481	0.0405	0.0018	0.2364	0.0126	<0.003	0.2329	<0.004	0.0203	0.0120	<0.007	0.0606	<0.01	0.0220
UG012191_rut_5	58.60	39.65	0.0384	0.0219	<0.001	0.3407	0.0241	<0.003	0.3178	<0.004	0.0275	<0.006	<0.007	0.3225	<0.011	0.3162
UG012191_rut_6	58.91	39.76	0.0568	0.0608	0.0032	0.0495	0.0113	<0.003	0.4575	<0.004	0.0386	0.2075	<0.007	0.0438	<0.01	0.0456
UG012191_rut_7	58.84	40.09	0.2039	0.2652	<0.001	0.2200	<0.003	0.0038	0.4434	<0.004	0.0247	0.0313	<0.007	0.0940	<0.01	0.0918
UG012191_rut_8	59.19	39.85	0.0259	0.0216	<0.001	0.2380	0.0103	<0.003	0.2911	<0.004	0.0535	0.0378	<0.007	0.0709	<0.01	0.0168
UG012191_rut_9	29.06	39.81	0.0323	0.0274	0.0020	0.0909	0.0080	<0.003	0.4405	<0.004	0.0382	0.2000	<0.007	0.0387	<0.01	0.0501
UG012192_rut_1	58.78	39.83	0.0505	0.0129	<0.001	0.6225	0.0081	<0.003	0.3357	<0.004	0.0310	0.0141	<0.007	0.1302	<0.011	0.2339
UG012192_rut_10	58.81	39.78	0.0515	0.0172	<0.001	0.5392	0.0064	<0.003	0.2791	<0.004	0.0286	0.0210	<0.007	0.1359	<0.01	0.1297
UG012192_rut_11	59.11	40.04	0.0475	0.0107	<0.002	0.7208	0.0093	<0.003	0.2952	<0.004	0.0571	0.0203	<0.007	0.1149	<0.01	0.0404
UG012192_rut_12	59.17	40.02	0.0314	0.0130	<0.001	0.7426	0.0243	<0.003	0.1913	<0.004	9600.0	0.0094	<0.007	0.0593	<0.01	0.0535
UG012192_rut_13																
UG012192_rut_14																
UG012192_rut_2	58.82	39.85	0.0787	0.0230	<0.001	0.7470	0.0083	<0.003	0.1121	<0.004	0.0465	0.0824	<0.007	0.0895	<0.01	<0.01
UG012192_rut_3	58.84	39.78	0.0472	0.0196	<0.001	0.6094	0.0102	<0.003	0.2206	<0.004	0.0221	0.0374	<0.007	0.0526	<0.01	0.0297
UG012192_rut_4	58.76	39.87	0.1200	0.0184	0.0056	0.5322	0.0059	<0.003	0.3148	<0.004	0.0189	0.2009	0.0068	0.0424	<0.01	0.1613
UG012192_rut_6	58.72	39.83	0.0392	0.0210	0.0048	0.8657	0.0168	<0.003	0.1360	<0.004	0.0149	0.1155	<0.007	0.0587	<0.01	0.0533
UG012192_rut_7	58.76	39.85	0.0321	0.0126	<0.001	0.7020	0.0113	<0.003	0.2728	0.0095	0.0401	0.1227	<0.007	0.1400	<0.01	0.1088
UG012192_rut_8	59.09	40.02	0.0603	0.0116	<0.001	0.6853	0.0106	<0.003	0.3183	<0.004	0.0529	0.0148	<0.007	0.0904	<0.01	0.0525
UG012192_rut_9	59.23	40.13	0.0618	0.0149	<0.001	0.7389	0.0179	<0.003	0.1956	<0.004	0.0129	0.0161	<0.007	0.1044	<0.01	0.1481
UG012194_rut_1	58.52	39.60	0.2829	0.0705	0.0072	0.1220	0.0054	<0.003	0.3376	<0.004	<0.005	0.0168	<0.007	0.0145	<0.01	<0.01
UG012194_rut_10	58.59	39.45	0.0519	0.0332	0.0198	0.0742	0.0149	0.0079	0.3877	<0.004	0.0229	0.0554	0.0082	0.0344	<0.01	0.0978
UG012194_rut_11	59.32	39.93	0.0447	0.0436	0.0044	0.2078	<0.003	<0.003	0.3447	<0.004	<0.005	0.0234	<0.007	0.0044	<0.01	<0.01
UG012194_rut_12	58.70	39.56	0.1076	0.0337	0.0033	0.0783	0.0177	<0.003	0.4401	<0.004	0.0332	0.0079	<0.007	0.0317	<0.01	0.0656
UG012194_rut_13	58.66	39.58	0.2413	0.0331	0.0069	0.0345	0.0072	<0.003	0.3216	0.0044	0.0121	0.0331	<0.006	0.0152	<0.01	<0.01
UG012194_rut_14																
UG012194_rut_15																
UG012194_rut_2	58.45	39.37	0.0857	0.0943	0.0174	0.0895	0.0067	0.0072	0.2607	<0.004	0.0062	0.0124	<0.007	0.0212	<0.01	0.0135
*All el	*All elements are in wt. % (EMPA	e in wt. 9	% (EMPA	<u>.</u>												

Appendix C: Eastern Sunda arc rutile trace element chemistry (EMPA)

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Analysis ID	Ë	0	I	Si	Ca	>	င်	Mn	Fe	Cu	Zr	QN	Мо	Sn	Та	Μ
UG012194_rut_3	59.22	39.81	0.0354	0.0239	0.0032	0.1551	0.0063	<0.003	0.3466	<0.004	0.0104	0.0269	<0.007	0.0205	<0.01	<0.01
UG012194_rut_4	58.99	39.63	0.0423	0.0236	0.0054	0.0956	0.0046	<0.003	0.2778	<0.004	0.0056	0.0259	<0.007	0.0219	<0.01	0.0317
UG012194_rut_5	58.81	39.62	0.0577	0.0257	0.0037	0.3842	0.0437	<0.003	0.1867	<0.004	0.0422	0.0172	<0.006	0.0088	<0.01	<0.01
UG012194_rut_6	58.89	39.68	0.0579	0.0161	<0.001	0.0368	0.0108	<0.003	0.4660	<0.004	0.0396	0.0792	0.0114	0.0325	<0.01	0.1943
UG012194_rut_7	55.07	39.34	1.0045	1.1974	0.0019	0.1124	0.0071	0.0274	0.4296	<0.004	0.0206	0.0304	<0.007	0.0385	<0.01	0.3077
UG012194_rut_8	29.00	39.68	0.0740	0.0444	0.0152	0.0940	<0.003	<0.003	0.2406	<0.004	<0.005	0.0444	<0.006	0.0318	<0.01	<0.01
UG012194_rut_9	58.98	39.73	0.0499	0.0771	0.0094	0.1705	0.0036	<0.003	0.2466	<0.004	<0.006	0.0449	<0.006	0.0238	<0.01	0.0403
UG012199_rut_1	58.98	39.93	0.1072	0.0305	0.0054	0.6570	0.0636	<0.003	0.0818	<0.004	0.0061	0.0469	<0.006	0.0234	<0.01	<0.01
UG012199_rut_10	59.23	39.95	0.0800	0.0194	0.0032	0.4847	0.0294	<0.003	0.0547	<0.004	0.0085	0.0482	<0.006	0.0294	<0.01	<0.01
UG012199_rut_11																
UG012199_rut_12																
UG012199_rut_2	59.04	39.83	0.0649	0.0213	0.0075	0.4948	0.0235	<0.003	0.1169	<0.004	<0.005	0.0273	<0.007	0.0204	<0.01	<0.01
UG012199_rut_3	58.54	39.73	0.1379	0.0580	0.0026	0.7168	0.0124	<0.003	0.1050	<0.004	0.0118	0.0379	<0.007	0.0599	<0.01	0.0933
UG012199_rut_4	58.86	39.70	0.0591	0.0232	0.0081	0.4799	0.0212	0.0044	0.1075	<0.004	0.0109	0.0301	<0.007	0.0280	<0.01	<0.01
UG012199_rut_5	58.57	39.64	0.0823	0.0484	0.0034	0.4467	0.0411	<0.003	0.3761	<0.004	0.0112	0.0377	<0.007	0.0774	<0.01	0.0292
UG012199_rut_6	59.18	39.95	0.0703	0.0226	0.0041	0.5171	0.0054	<0.003	0.1519	<0.004	<0.005	0.0705	<0.007	0.0194	<0.01	<0.01
UG012199_rut_8	58.54	39.61	0.0974	0.0262	0.0074	0.4334	0.0484	<0.003	0.3795	<0.004	0.0078	0.0647	<0.006	0.0266	<0.01	0.0197
UG012199_rut_9	58.33	39.51	0.0798	0.0299	0.0073	0.4568	0.0398	<0.003	0.5545	<0.004	0.0079	0.0615	<0.007	0.0361	<0.01	<0.01
UG012200_rut_1	58.72	39.82	0.0218	0.0234	<0.001	0.9559	0.0255	<0.003	0.1433	<0.004	<0.005	<0.006	<0.007	0.0768	<0.01	0.0735
UG012200_rut_10	58.74	39.82	0.0240	0.0153	<0.001	0.7292	0.0248	<0.003	0.3762	<0.004	0.0157	0.0278	<0.007	0.0537	<0.01	0.1693
UG012200 rut 11	58.88	39.92	0.0102	0.0094	<0.001	1.0320	0.0215	<0.003	0.0948	<0.004	<0.005	0.0689	<0.007	0.0179	<0.01	<0.01
UG012200_rut_12	60.76	41.14	0.0141	0.0070	<0.001	1.0064	0.0429	<0.003	0.0507	<0.004	<0.005	0.0157	<0.006	0.0380	<0.01	0.0158
UG012200_rut_13	57.52	39.62	0.0529	0.0083	0.0023	1.3486	0.0219	<0.003	0.3756	<0.005	0.0307	0.0227	<0.007	0.0680	<0.012	1.4189
UG012200_rut_14	58.46	39.76	0.0330	0.0110	0.0018	1.0469	0.0284	<0.003	0.1139	<0.004	0.0198	0.0326	<0.006	0.1044	<0.011	0.3163
UG012200_rut_15	58.70	39.89	0.0279	0.0081	<0.001	1.0127	0.0095	<0.003	0.0822	<0.004	0.0344	0.0612	<0.00>	0.1879	<0.01	0.1829
UG012200_rut_16	58.85	39.93	0.0447	0.0103	0.0035	1.0006	0.0290	<0.003	0.0298	<0.004	0.0135	0.0461	<0.007	0.0877	<0.01	0.0896
UG012200_rut_17	58.43	39.62	0.0135	0.0073	0.0018	9668:0	0.0760	0.1030	0.0795	<0.004	<0.005	0.0477	<0.006	0.0424	<0.01	0.0659
UG012200_rut_18	58.81	39.89	0.0216	0.0095	<0.001	0.9812	0.0440	<0.003	0.0933	<0.004	0.0097	0.0170	<0.006	0.0579	<0.01	0.1445
UG012200_rut_19	58.59	39.84	0.0407	0.0066	<0.001	1.0505	0.0445	<0.003	0.0866	<0.004	0.0216	0.0405	<0.007	0.1059	<0.011	0.2600
UG012200_rut_2	58.94	39.97	0.0167	0.0136	0.0016	1.0495	0.0300	<0.003	0.0579	<0.004	<0.005	0.0579	<0.006	0.0225	<0.01	0.0203
UG012200_rut_20	58.92	39.87	0.0154	0.0094	<0.001	0.8238	0.0608	<0.003	0.0638	<0.004	<0.005	0.0938	<0.007	0.0153	<0.01	0.0228
UG012200_rut_21	59.03	39.92	0.0117	0.0106	0.0019	0.7930	0.0436	<0.003	0.1313	<0.004	0.0059	0.0190	<0.007	0.0552	<0.01	0.0234
UG012200_rut_22	28.57	39.81	0.0403	0.0042	<0.001	1.0227	0.0285	<0.003	0.1174	<0.004	0.0292	0.0075	<0.007	0.2245	<0.01	0.1446
UG012200_rut_23	58.90	39.92	0.0143	0.0150	<0.001	0.9064	9090.0	<0.003	0.0868	<0.004	0.0111	0.0141	<0.007	0.0495	<0.01	0.1685
UG012200_rut_24	58.09	39.56	0.0495	0.0206	0.0136	0.8484	0.0442	0.0145	0.2081	<0.004	0.0340	0.0479	0.0229	0.0818	<0.011	0.5230
UG012200_rut_25	58.96	39.94	0.0779	0.0047	<0.001	0.7443	0.0556	0.0054	0.1537	<0.004	0.0102	0.0131	<0.007	0.1012	<0.01	0.0826
UG012200_rut_26	59.01	39.93	0.0118	0.0148	<0.001	0.9015	0.0321	<0.003	0.0930	0.0045	<0.005	0.0067	<0.006	0.0382	<0.01	0.0120
UG012200_rut_27	58.71	39.83	0.0335	0.0054	<0.001	0.9600	0.0317	<0.003	0.1209	0.0046	0.0060	0.1137	<0.007	0.0571	<0.01	0.0223
UG012200_rut_28	58.96	39.96	0.0351	0.0127	0.0023	0.9411	0.0258	0.0047	0.0230	<0.004	0.0061	0.0873	<0.007	0.0374	<0.01	0.0289
UG012200_rut_29	58.85	39.91	0.0341	0.0139	<0.001	1.0513	0.0196	0.0032	0.0247	<0.004	<0.006	0.0073	<0.006	0.0618	<0.01	0.0502
UG012200_rut_3	59.64	40.48	0.0184	0.0188	0.0041	1.0419	0.0278	0.0032	0.0829	<0.004	0.0119	0.0352	<0.006	0.0585	<0.01	0.1266
UG012200_rut_30	58.79	39.87	0.0296	0.0085	0.0024	0.9325	0.0145	<0.003	0.0337	<0.004	0.0187	0.0207	0.0072	0.1153	<0.011	0.2248
UG012200_rut_4	57.93	39.42	0.0608	0.0122	<0.001	0.5119	0.0346	<0.003	0.4386	<0.004	0.0861	0.1016	0.0107	0.0563	<0.011	0.7221
UG012200_rut_5	58.77	39.82	0.0272	0.0210	0.0017	0.9009	0.0362	0.0040	0.1041	<0.004	0.0059	0.0324	<0.007	0.0279	<0.01	0.0376
UG012200_rut_6	58.74	39.83	0.0404	0.0109	<0.001	0.8717	0.0341	0.0045	0.1181	<0.004	0.0162	0.0301	<0.007	0.0690	<0.01	0.1372
UG012200_rut_7	59.03	40.03	0.0241	0.0117	<0.001	1.0361	0.0370	<0.003	0.0600	0.0061	<0.005	0.0458	<0.007	0.0341	<0.01	0.0162
UG012200_rut_8	58.38	39.76	0.0329	0.0148	0.0023	1.0457	0.0143	<0.003	0.1860	<0.004	0.0178	0.0439	0.0383	0.0589	<0.011	0.4023
UG012200_rut_9	58.88	39.86	0.0448	0.0142	<0.001	0.8470	0.0582	0.0031	0.0301	<0.004	<0.005	0.0291	<0.007	0.0613	<0.01	0.0327
UG012201_rut_1	58.56	39.63	0.0923	0.0349	0.0022	0.4066	0.0070	<0.003	0.3631	<0.004	0.1288	0.0331	0.0107	0.0329	<0.01	0.0382
UG012201_rut_10																
=	alaments are in wt 0% (FMD	o in wit C	A CEMPA													

\*All elements are in wt. % (EMPA).

Appendix C: Eastern Sunda arc rutile trace element chemistry (EMPA)

Analysis ID	Ξ	0	Ι	Si	Ca	^	Cr	Mn	Fe	Cu	Zr	Nb	Мо	Sn	Та	×
UG012201_rut_2	58.56	39.65	0.1367	0.0095	<0.001	0.3715	0.0073	<0.003	0.4355	<0.004	0.0945	0.0384	0.0248	0.0355	<0.01	0.0580
UG012201_rut_3	58.85	39.88	0.1928	0.0045	0.0015	0.1802	0.0283	<0.003	0.4626	<0.004	0.0582	0.0342	0.0089	0.0227	<0.011	0.4504
UG012201_rut_4	57.98	39.40	0.2165	0.0086	<0.001	0.2803	0.0310	<0.003	0.3874	<0.004	0.1364	0.0296	0.0128	0.0218	<0.011	0.5692
UG012201 rut 5	58.55	39.59	0.2403	0.0037	<0.001	0.2322	0.0183	<0.003	0.3036	<0.004	0.0576	0.0289	<0.007	0.0215	<0.01	0.0865
UG012201 rut 6	58.65	39.60	0.1256	0.0036	0.0015	0.2604	0.0213	<0.003	0.3446	<0.004	0.0322	0.1149	<0.007	0.0225	<0.01	0.0203
UG012201 rut 7																
UG012201 rut 8																
UG012201 rut 9																
UG012202_rut_1	58.68	39.93	0.0049	0.0115	0.0024	1.2114	0.0306	<0.003	0.1547	<0.004	0.0643	0.0207	0.0084	0.0806	<0.01	0.1038
UG012202_rut_2	58.70	39.92	0.0126	0.0168	0.0045	1.1715	0.0235	0.0032	0.1833	<0.004	0.0098	0.0354	<0.006	0.0500	<0.01	0.0770
UG012202 rut 3																
UG012202 rut 4																
BHE-02 nit1	58.91	39 65	0.0026	0.0178	0.0277	0.1166	<0.003	<0.003	0.6021	0.0049	0.0082	0.0310	>0 006	0.0234	×0 04	0.0373
BHE-02 mt2																
2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2																
200 000																
BHF-02 rut4				0	0		0					0			č	9
BHF-03 rut1	58.91	39.59	0.0305	0.0390	0.0098	0.0277	<0.003	<0.003	0.4008	0.0152	0.0199	0.0398	<0.007	0.0054	<0.01	L0:0>
BHF-03 rut11																
BHF-03 rut12																
BHF-03 rut13																
BHF-03 rut14																
BHF-03 rut2	59.06	39.68	0.0036	0.0048	0.0079	0.0551	0.0198	0.0035	0.5435	0.0184	0.0118	0.0130	<0.006	0.0257	<0.01	0.0144
BHE-03 n:13	58 73	39.51	0.0047	0.0088	0.0076	0.0589	<0.003	<0.003	0.6915	0.0333	0.0098	0.0185	0.0109	0.0196	×0.04	<0.00 40.01
BHE-03 nits	20.00	39.62	0.0088	0.0004	0.000	0.0020	00.00	-0.003 -0.003	0.3200	0.0878	0.0224	0.0566	9000	0.0113	500	0.0
Sini so-ling	29.00	29.02	0.0000	0.0091	0.0094	0.0474	50.00	>0.003	0.3700	0.0070	0.0221	00000	20.000	0.0112	10.07	0.0
BHF-03 rut6	58.91	39.57	0.0107	0.0120	0.0186	<0.02	<0.003	<0.003	0.4446	0.1080	0.0071	0.0769	<0.007	<0.002	<0.01	<0.01
BHF-03 rut7																
BHF-03 rut8																
BHF-03 rut9																
GBF-01 rut1	57.20	39.30	0.1547	0.0089	<0.002	0.5109	0.0484	<0.003	0.6626	<0.005	0.0170	0.0221	<0.007	0.0409	<0.012	1.8949
GBF-01 rut10	59.02	40.06	0.0060	0.0172	0.0018	1.0349	0.0476	<0.003	0.0962	<0.004	<0.005	0.0388	<0.006	0.0675	<0.01	0.1398
GBF-01 rut11	59.17	39.86	0.0184	0.0179	0.0022	0.3716	0.0107	0.0041	0.1442	<0.004	0.0062	0.0071	<0.006	0.0414	<0.01	0.2166
GBF-01 rut12	59.33	40.18	0.0045	0.0214	0.0055	0.8533	0.0042	<0.003	0.1083	<0.004	0.0102	0.0236	<0.006	0.0356	<0.011	0.2178
GBF-01 rut13	58.91	39.74	0.0377	0.0152	0.0038	0.3228	0.0089	<0.003	0.2385	<0.004	0.0107	0.0212	<0.006	0.0361	<0.011	0.3458
GBF-01 rut14	58.90	40.09	0.0104	0.0140	0.0022	1.1114	0.2963	<0.003	0.0966	<0.004	<0.005	<0.006	<0.007	0.0767	<0.01	0.0450
GBF-01 rut15	58.86	39.77	0.0470	0.0674	0.0307	0.4429	0.0145	<0.003	0.1355	<0.004	<0.006	0.0122	<0.007	0.0506	<0.01	0.1700
GBF-01 rut16	59.25	40.18	0.0057	0.0219	0.0038	1.0028	0.0210	<0.003	0.1282	<0.004	<0.006	<0.006	<0.007	0.0297	<0.01	0.1535
GBF-01 rut17	59.15	40.01	0.0159	0.0186	0.0089	0.6968	0.0217	<0.003	0.1163	<0.004	<0.005	0.0189	<0.007	0.0323	<0.011	0.2628
GBF-01 rut18	59.74	40.35	0.0139	0.0125	<0.001	0.8290	<0.003	0.0034	0.0446	<0.004	<0.005	0.0080	<0.006	0.0108	<0.01	<0.01
GBF-01 rut19	58.85	40.13	0.0050	0.0100	0.0021	1.5004	0.0040	<0.003	0.0732	<0.004	0.0086	0.0102	<0.007	0.0345	<0.01	0.1877
GBF-01 rut2	59.16	40.21	0.0085	0.0132	0.0021	1.1785	0.0046	<0.003	0.1180	<0.004	<0.005	0.0216	<0.007	0.0439	<0.011	0.2268
GBF-01 rut20	58.85	39.93	0.0106	0.0161	<0.001	0.9278	0.0218	<0.003	0.1241	<0.004	0.0085	<0.006	<0.007	0.0385	<0.011	0.3996
GBF-01 rut21	59.09	39.91	0.0387	0.0248	0.0036	0.5127	0.0052	<0.003	0.1611	<0.004	<0.005	0.0093	<0.007	0.0324	<0.011	0.2942
GBF-01 rut22	59.46	40.07	0.0181	0.0148	0.0043	0.4934	0.0037	<0.003	0.1166	<0.004	<0.005	0.0120	<0.006	0.0310	<0.01	0.1252
GBF-01 rut23	58.55	39.84	0.0117	0.0073	0.0019	0.9837	0.0312	<0.003	0.1788	<0.004	0.0097	0.0067	<0.007	0.0548	<0.011	0.6571
GBF-01 rut24	59.43	40.12	0.0212	0.0175	0.0016	0.6116	0.0040	<0.003	0.0781	<0.004	0.0075	<0.006	<0.007	0.0482	<0.011	0.2312
GBF-01 rut25	58.79	40.14	0.0066	0.0113	0.0024	1.4869	0.0055	<0.003	0.0979	<0.004	0.0099	0.0125	<0.007	0.0426	<0.011	0.3632
GBF-01 rut26	59.02	39.79	0.0476	0.0102	<0.001	0.2533	0.0368	<0.003	0.2437	<0.004	0.0070	0.0313	<0.007	0.0344	<0.011	0.3158
GBF-01 rut27	59.10	40.02	0.0150	0.0148	0.0030	0.8179	0.0151	<0.003	0.1204	<0.004	0.0068	<0.006	<0.007	0.0486	<0.011	0.2695
GBF-01 rut28	57.35	39.89	0.5138	0.4850	0.0035	0.5972	0.0662	0.0040	0.2093	<0.004	0.0107	0.0128	<0.007	0.0654	<0.011	0.6782
GBF-01 rut29	58.21	39.56	0.0529	0.0071	0.0029	0.5998	0.0390	<0.003	0.2710	<0.005	0.0084	0.0093	<0.007	0.0417	<0.011	0.9288
	*All olomonts are in wt 0%	in wit	-	_												
שווע	dements are	ı Mı	יייישן 0%	÷												

Appendix C: Eastern Sunda arc rutile trace element chemistry (EMPA)

Analysis ID	ï	0	¥	is	Ca	>	Ö	W	Fe	n	Zr	g	Mo	S	Ta	*
GBE-01 n#3	56.27	39.26	0.0736	96000	<0.00	1 7090	0.0305	<0.000	0.3531	<0.00	0.0192	0.0768	×0.007	0.1631	<0.012	2 4324
GBF-01 rut30	59.16	39.89	0.0244	0.0121	0.0026	0.5219	0.0049	<0.003	0.1347	<0.003	0.0056	0.0078	<0.007	0.0458	<0.01	0.1227
GBF-01 rut31	59.28	40.07	0.0550	0.0114	0.0025	0.3460	0.0536	<0.003	0.2371	<0.004	0.0123	0.0103	<0.007	0.0385	<0.011	0.5450
GBF-01 rut4	59.36	39.99	0.0242	0.0116	0.0030	0.3844	0.0122	<0.003	0.1688	<0.004	<0.005	0.0198	<0.006	0.0260	<0.01	0.1895
GBF-01 rut5	59.46	40.06	0.0409	0.0090	<0.001	0.2959	0.0209	<0.003	0.2047	<0.004	<0.005	0.0541	<0.007	0.0323	<0.01	0.1978
GBF-01 rut6	59.14	40.04	0.0059	0.0128	<0.001	0.8023	0.0439	<0.003	0.1349	<0.004	<0.005	0.0082	<0.007	0.0579	<0.01	0.2255
GBF-01 rut7	59.27	40.14	0.0072	0.0132	0.0024	0.8616	0.0089	<0.003	0.1096	<0.004	0.0060	0.0062	<0.007	0.0352	<0.011	0.2790
GBF-01 rut8	59.27	39.98	0.0145	0.0109	0.0034	0.5552	0.0061	<0.003	0.1274	<0.004	0.0058	0.0252	<0.007	0.0372	<0.01	0.1786
GBF-01 rut9	59.19	39.92	0.0508	0.0541	0.0205	0.3040	0.0141	<0.003	0.1816	<0.004	0.0076	0.0248	<0.006	0.0281	<0.011	0.1735
GBF-03 rut1	58.66	39.53	0.0100	0.0066	0.0041	0.1741	0.0132	<0.003	0.6018	<0.004	0.0082	0.0137	0.0074	0.0294	<0.011	0.1632
GBF-03 rut10	59.39	39.94	0.0026	0.0163	0.0086	0.3020	<0.003	<0.003	0.3235	<0.004	<0.005	0.0068	<0.007	0.0198	<0.01	<0.01
GBF-03 rut11	58.99	39.71	0.0073	0.0080	0.0035	0.1500	<0.003	<0.003	0.5509	<0.004	0.0149	0.0172	<0.007	0.0368	<0.01	0.1513
GBF-03 rut12	58.70	39.62	0.0054	0.0097	0.0028	0.1858	<0.003	<0.003	0.6278	<0.004	0.0173	0.0122	<0.007	0.0433	<0.011	0.4054
GBF-03 rut13	59.34	39.88	0.0032	0.0115	0.0023	0.0944	0.0031	<0.003	0.5154	<0.004	0.0139	<0.006	<0.007	0.0268	<0.01	0.0646
GBF-03 rut14	59.06	39.73	0.0058	0.0082	0.0017	0.0824	<0.003	<0.003	0.5831	<0.004	<0.005	<0.006	<0.006	0.0835	<0.01	0.1343
GBF-03 rut15	59.15	39.72	0.0161	0.0089	0.0033	0.0751	<0.003	<0.003	0.4552	<0.004	<0.005	0.0128	<0.007	0.0170	<0.01	0.0154
GBF-03 rut16	59.29	40.01	0.0127	0.0246	0.0126	0.4019	<0.003	<0.003	0.3969	<0.004	<0.006	<0.006	<0.007	0.0271	<0.01	0.1932
GBF-03 rut17	58.76	39.56	0.0106	0.0058	0.0025	0.0664	<0.003	<0.003	0.8010	<0.004	<0.005	<0.006	<0.006	0.0324	<0.01	0.0404
GBF-03 rut19	59.29	39.94	0.0028	0.0101	0.0362	0.1200	<0.003	<0.003	0.6380	<0.004	0.0101	<0.006	<0.007	0.0275	<0.01	0.2055
GBF-03 rut2	59.41	40.01	0.0114	0.0329	0.0127	0.3947	<0.003	<0.003	0.2150	<0.004	<0.005	<0.006	<0.007	0.0089	<0.01	0.0486
GBF-03 rut20	58.75	39.60	0.0086	0.0139	0.0054	0.0998	<0.003	0.0053	0.6040	<0.004	0.0154	0.0113	<0.007	0.0635	<0.011	0.3497
GBF-03 rut21	58.77	39.64	0.0066	0.0160	0.0035	0.3039	<0.003	<0.003	0.5161	<0.004	<0.005	<0.006	<0.007	0.0461	<0.011	0.1810
GBF-03 rut23	59.14	39.72	0.0086	0.0092	0.0024	0.0651	<0.003	<0.003	0.5046	<0.004	0.0110	<0.006	<0.007	0.0252	<0.01	0.0431
GBF-03 rut3	57.43	39.14	0.0119	0.0201	0.0055	0.2167	<0.003	<0.003	1.0620	<0.005	0.0183	0.0172	<0.007	0.0614	<0.011	1.2767
GBF-03 rut4	59.02	39.86	0.0074	0.0181	0.0070	0.5294	<0.003	<0.003	0.2976	<0.004	<0.005	0.0440	<0.007	0.0565	<0.01	0.1189
GBF-03 rut6	59.04	39.75	0.0057	0.0195	0.0113	0.3450	0.0042	<0.003	0.3531	<0.004	<0.006	<0.006	<0.006	0.0166	<0.01	0.0133
GBF-03 rut7	56.78	38.71	0.0191	0.0197	0.0088	0.1161	<0.003	<0.003	1.3123	<0.005	0.0140	0.0185	<0.007	0.0304	<0.011	1.1924
GBF-03 rut9	59.76	40.22	0.0095	0.0141	0.0027	0.1444	<0.003	<0.003	0.5255	<0.004	0.0143	0.0163	<0.007	0.0280	<0.01	0.1194
JEM-01 rut1	58.68	39.53	0.0121	0.0068	<0.001	0.0328	<0.003	<0.003	0.6806	<0.004	0.0325	0.0089	<0.007	0.0566	<0.011	0.3319
JEM-01 rut10	60.29	40.52	0.0099	0.0066	<0.001	0.0552	<0.003	<0.003	0.5270	<0.004	0.0201	0.0110	0.0088	0.0620	<0.01	0.0569
JEM-01 rut11	59.21	39.78	0.0037	0.0054	0.0064	0.0815	<0.003	<0.003	0.5170	<0.004	<0.005	0.0251	<0.007	0.0274	<0.01	0.0195
JEM-01 rut12	59.17	39.78	0.0098	0.0077	0.0020	0.0426	<0.003	<0.003	0.5561	0.0046	0.0253	0.0500	<0.006	0.0441	, 40.01 5	0.0230
JEM-01 rutis	28.88	39.30	2110.0	0.0116	0.0028	0.0343	<0.003	0.0038	0.5106	<0.004	0.0346	0.0088	<0.007	0.0508	×0.01	0.0406
JEM-01 rut14	59.24	39.77	0.0071	0.0086	0.0024	<0.02	<0.003	<0.003	0.5305	<0.004	0.0085	0.0241	<0.007	0.0216	\$0.01 5.04	<0.01 0.420r
JEM-01 rut15	58.99	39.66	0.0114	0.0045	0.0019	0.0555	<0.003	<0.003	0.5100	<0.004	0.0213	0.0163	<0.006	0.0618	\$0.01 5.04	0.1295
JEM-01 rut16	59.08	39.70	0.0104	0.0038	0.0038	\$0.02 0.030 8	\$0.003	<0.003	0.5630	40.004	0.0291	\$0.00e	<0.007	0.0495	N.0.0	0.0482
JEM-01 1911	2	39.75	0.0039	0.0075	0.00	0.0233	00.00	,0:003 40.003	0.0430	40.00	0.0330	0.0136	<0.007	0.0403	0.07	0.0237
JEM-01 rut2	58.38	39.41	0.0143	0.0055	<0.001	0.0554	<0.003	<0.003	0.7500	<0.004	0.0160	0.0070	<0.007	0.0699	<0.011	0.5017
JEM-01 rut20	59.10	39.77	0.0134	0.0071	0.0028	0.0985	<0.003	<0.003	0.5283	<0.004	0.0077	0.0380	<0.007	0.0341	<0.01	0.1394
JEM-01 rut21	59.12	39.79	0.0131	0.0058	<0.001	0.0473	<0.003	<0.003	0.6301	<0.004	0.0253	0.0178	<0.006	0.0330	<0.011	0.2035
JEM-01 rut22	59.07	39.71	0.0114	0.0061	0.0064	0.0707	<0.003	<0.003	0.5196	<0.004	0.0079	0.0137	<0.006	0.0373	<0.01	0.1002
JEM-01 rut23	58.46	39.49	0.0075	0.0075	0.0019	<0.02	<0.003	<0.003	1.3405	<0.004	0.0290	0.0079	<0.007	0.0406	<0.01	<0.01
JEM-01 rut24	29.06	39.70	0.0087	0.0118	<0.001	0.0568	<0.003	<0.003	0.5337	<0.004	0.0435	0.0154	<0.007	0.0323	<0.01	0.0493
JEM-01 rut25	59.18	39.80	0.0072	0.0066	<0.001	0.0825	<0.003	<0.003	0.5232	<0.004	0.0218	0.0436	0.0092	0.0828	<0.01	0.0258
JEM-01 rut26	58.53	39.49	0.0134	0.0055	0.0020	0.1139	<0.003	<0.003	0.6226	<0.004	0.0165	<0.006	<0.007	0.0528	<0.011	0.5029
JEM-01 rut27	59.05	39.69	0.0106	0.0042	<0.001	0.0539	<0.003	<0.003	0.5069	<0.004	0.0220	0.0130	<0.007	0.0738	<0.01	0.0779
JEM-01 rut28	59.08	39.70	0.0116	0.0102	0.0021	0.0265	<0.003	<0.003	0.5519	<0.004	0.0226	0.0088	<0.007	0.0536	<0.01	0.0388
JEM-01 rut3	59.02	39.69	0.0101	0.0066	0.0019	0.0642	<0.003	<0.003	0.5750	<0.004	0.0276	0.0327	<0.007	0.0489	<0.01	0.0387
JEM-01 rut30	58.98	39.66	0.0104	0.0047	<0.001	0.0822	<0.003	<0.003	0.4954	<0.004	0.0171	0.0325	<0.006	0.0425	<0.01	0.1192
*All el	*All elements are in wt. $\%$ (EMPA	e in wt. <sup>0</sup>	% (EMPA	÷												

Appendix C: Eastern Sunda arc rutile trace element chemistry (EMPA)

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Analysis ID		0	₹	ō	E C	>	วั	MIN	e L	no	<b>77</b>	QN	OM	io.	<u>0</u>	\$
JEM-01 rut4	59.49	39.94	0.0124	0.0026	0.0017	<0.02	<0.003	<0.003	0.5491	<0.004	0.0205	<0.006	<0.007	0.0436	<0.01	<0.01
JEM-01 rut5	59.04	39.66	0.0058	0.0037	0.0019	0.0200	<0.003	<0.003	0.5729	<0.004	0.0110	0.0493	<0.007	0.0221	<0.01	<0.01
JEM-01 rut6	59.17	39.74	0.0092	0.0048	<0.001	0.0485	0.0033	<0.003	0.4774	<0.004	<0.006	0.0064	<0.006	0.0438	<0.01	0.0509
JEM-01 rut7	58.63	39.54	0.0246	<0.002	0.0043	0.0628	<0.003	0.0043	0.7079	<0.004	0.0217	0.0111	<0.007	0.0386	<0.011	0.3790
JEM-01 rut8	59.08	39.71	0.0102	0.0078	0.0018	<0.02	0.0044	<0.003	0.5672	<0.004	0.0300	0.0549	<0.007	0.0548	<0.01	0.0336
JEM-01 rut9	59.01	39.66	0.0051	0.0126	0.0023	0.0458	<0.003	<0.003	0.5280	<0.004	0.0200	0.0077	<0.007	0.0425	<0.01	0.0932
JER-01 rut1	58.82	39.66	0.0638	0.1375	0.1079	0.0343	0.0087	0.0111	0.1519	<0.004	0.0751	0.0122	<0.007	<0.002	<0.01	0.0508
JER-01 rut10	59.31	39.79	0.0117	0.0209	0.1146	0.0233	0.0097	<0.003	0.1371	<0.004	0.0635	0.0231	<0.007	<0.002	<0.01	<0.01
JER-01 rut11	58.31	39.38	0.0143	0.0105	0.0276	<0.02	0.0160	<0.003	1.0980	<0.004	0.1104	0.0234	<0.006	<0.002	<0.01	0.0177
JER-01 rut12	59.41	39.83	0.0107	0.0034	0.0407	0.0230	0.0179	0.0059	0.1585	<0.004	0.0864	0.0162	0.0064	<0.002	<0.01	0.0158
JER-01 rut13	59.21	39.71	0.0171	0.0115	0.0438	<0.02	0.0095	<0.003	0.1974	<0.004	0.0709	0.0185	<0.007	<0.002	<0.01	0.0153
JER-01 rut14	59.05	39.70	0.0322	0.0610	0.0579	<0.02	0.0085	0.0047	0.2163	<0.004	0.0777	0.0210	<0.007	<0.002	<0.01	0.0585
JER-01 rut15	59.28	39.79	0.0153	0.0299	0.0228	<0.02	0.0084	<0.003	0.2231	<0.004	0.1093	0.0296	<0.006	0.0022	<0.01	<0.01
JER-01 rut16	58.34	39.42	0.0313	0.0062	0.0674	<0.02	0.0207	<0.003	1.2179	<0.004	0.0471	<0.006	<0.007	<0.002	<0.01	<0.01
JER-01 rut18																
JER-01 rut19																
JER-01 rut2	58.76	39.67	0.0761	0.1993	0.0903	0.0327	6900'0	0.0098	0.0973	<0.004	0.0775	0.0148	<0.006	<0.002	<0.01	0.0138
JER-01 rut20																
JER-01 rut3	59.15	39.72	0.0212	0.0446	0.0439	0.0212	0.0079	0.0041	0.1993	<0.004	0.0791	0.0224	<0.007	<0.002	<0.01	0.0164
JER-01 rut4	59.64	40.00	0.0054	0.0053	0.0939	<0.02	0.0128	<0.003	0.2441	<0.004	0.0399	0.0300	<0.007	<0.002	<0.01	0.0151
JER-01 rut5	58.88	39.90	0.0783	0.1940	0.4514	0.0312	<0.003	0.0195	0.0956	<0.004	0.0916	0.0180	<0.007	<0.002	<0.01	<0.01
JER-01 rut6	58.79	39.45	0.0156	0.0175	0.0630	0.0329	0.0124	0.0035	0.1900	<0.004	0.0724	0.0196	<0.006	0.0024	<0.01	0.0239
JER-01 rut7	59.80	40.34	0.0660	0.1632	0.1801	0.0301	0.0063	0.0135	0.0914	<0.004	0.0647	0.0161	<0.006	0.0033	<0.01	<0.01
JER-01 rut8	59.09	39.68	0.0255	0.0420	0.0480	0.0306	0.0080	0.0037	0.1950	<0.004	0.0714	0.0145	<0.006	<0.002	<0.01	0.0290
JER-01 rut9	59.27	39.73	0.0121	0.0047	0.0263	0.0200	0.0215	<0.003	0.1480	<0.004	0.1001	0.0140	<0.007	0.0046	<0.01	<0.01
LB002 rut1	59.29	39.74	0.0071	0.0094	0.0047	<0.02	<0.003	<0.003	0.3654	0.0055	<0.005	0.0092	<0.006	0.0040	<0.01	<0.01
LB002 rut10	29:00	39.82	0.0047	0.0210	0.0035	0.3717	0.0446	<0.003	0.4663	0.0050	0.0315	0.0593	<0.006	0.0243	<0.01	<0.01
LB002 rut11	58.87	39.90	0.0032	0.0244	<0.001	0.5619	0.0299	<0.003	0.7139	<0.004	0.0405	0.0819	<0.007	0.0240	<0.01	<0.01
LB002 rut12	58.86	39.70	0.0078	0.0165	0.0029	0.0372	<0.003	<0.003	0.7701	<0.004	0.0316	0.0774	<0.007	0.0280	<0.011	0.2455
LB002 rut13	59.14	39.72	<0.003	0.0203	0.0036	0.0285	0.0071	<0.003	0.5252	<0.004	<0.005	0.0123	<0.006	0.0332	<0.01	<0.01
LB002 rut14	59.35	39.77	0.0055	0.0106	0.0018	<0.02	<0.003	<0.003	0.3358	<0.004	0.0060	0.0100	<0.007	<0.002	<0.01	<0.01
LB002 rut15	58.13	39.50	0.0119	0.0064	0.0024	0.0990	0.1009	<0.003	0.6981	<0.004	0.1247	0.5578	0.0348	0.0140	<0.011	0.1928
LB002 rut16	56.94	38.91	0.0117	0.0089	<0.002	0.0495	<0.003	<0.003	1.3611	<0.005	0.0378	0.1932	<0.007	0.0488	<0.011	1.3507
LB002 rut17	58.05	39.32	0.0146	0.0084	<0.001	0.0312	<0.003	<0.003	0.8497	<0.004	0.0266	0.3635	<0.007	0.0482	<0.011	0.3325
LB002 rut18																
LB002 rut19																
LB002 rut2	59.16	39.70	0.0132	0.0306	0.0132	0.0305	<0.003	<0.003	0.3721	0.0179	<0.005	0.0067	>0.006	<0.002	<0.01	<0.01
LB002 rut20																
LB002 rut3	29.06	39.70	0.0079	0.0130	<0.001	0.0260	<0.003	<0.003	0.6175	<0.004	<0.005	0.0168	<0.006	0.0327	<0.01	0.0562
LB002 rut4	59.19	39.69	0.0132	0.0312	0.0146	<0.02	<0.003	<0.003	0.3127	<0.004	<0.005	<0.006	<0.007	<0.002	<0.01	<0.01
LB002 rut5	57.93	39.48	0.0086	0.0083	<0.001	0.0946	0.1380	<0.003	0.8035	<0.004	0.1184	0.7755	0.0173	0.0124	<0.01	0.1607
LB002 rut6	59.48	40.01	0.0049	0.0088	0.0044	0.1324	0.0046	<0.003	0.4936	<0.004	0.0105	0.0641	<0.006	0.0485	<0.01	<0.01
LB002 rut7	59.20	39.96	0.0061	0.0118	0.0019	0.4116	0.1358	<0.003	0.4166	<0.004	0.0104	<0.006	<0.007	0.0251	<0.01	<0.01
LB002 rut9	58.39	39.88	0.1297	0.4725	0.2020	<0.02	<0.003	0.0288	0.4276	0.0085	<0.005	0.0176	<0.006	<0.002	<0.01	<0.01
LB018 rut1	58.92	39.58	0.0166	0.0244	0.0495	0.0817	<0.003	0.0033	0.3780	<0.004	0.0075	<0.006	<0.007	0.0025	<0.01	<0.01
LB018 rut10																
LB018 rut2	59.03	39.67	0.0138	0.0125	0.0164	0.0480	0.0035	<0.003	0.5469	<0.004	0.0274	0.0405	<0.006	<0.002	<0.01	<0.01
LB018 rut3	58.69	39.47	0.0288	0.0332	0.0276	0.0271	0.0202	0.0041	0.4616	<0.004	0.0283	0.0602	<0.006	<0.002	<0.01	<0.01
LB018 rut4																
LB018 rut6		4	A (1) (1)	,												

\*All elements are in wt. % (EMPA).

Appendix C: Eastern Sunda arc rutile trace element chemistry (EMPA)

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Analysis ID	F	0	ΙΑ	Si	Ca	>	c	Mn	Fe	no	Zr	qN	Мо	Sn	Та	Μ
LB018 rut7																
LB018 rut8																
LB018 rut9																
LB022 rut1	59.17	39.99	0.0170	0.0115	0.0057	0.5516	0.0098	0.0211	0.4475	<0.004	0.0282	0.0155	<0.006	0.0502	<0.01	<0.01
LB022 rut10																
LB022 rut2	58.58	39.80	0.0080	0.0079	0.0029	0.6746	0.0156	<0.003	0.8726	<0.004	0.0378	0.0127	<0.007	0.0373	<0.01	0.1668
LB022 rut3	58.43	39.62	0.0061	0.0076	0.0027	0.2897	0.0153	<0.003	1.2257	<0.004	0.1362	0.0262	0.0140	0.0298	<0.01	0.0237
LB022 rut6	58.28	39.56	0.0071	0.0057	0.0016	0.4012	0.0077	0.0048	1.3361	<0.004	0.0389	0.0175	0.0107	0.0295	<0.01	<0.01
LB022 rut7																
LB022 rut8																
LB022 rut9																
LB028 ruf1	59.15	39.78	0.0091	0.0110	0.1360	0.0257	<0.00	<0.003	0.5089	<0.004	0.0197	0.0442	>0.006	0 0083	<0.07	<0.01
00000	2		9	2		0.50	200	999	2000	1000	5	2	200		9	-
LB028 rut10																
LB028 rut2	58.73	39.55	0.0318	0.1165	0.0463	0.0419	0.0067	0.0182	0.3020	<0.004	0.0170	0.0435	<0.007	<0.002	<0.01	<0.01
LB028 rut3																
LB028 rut4																
LB028 rut5																
LB028 rut6																
I B028 rut8																
1 BO28 2 40																
200000000000000000000000000000000000000	00	02	0000	9000	246	4	000	000	03460	000	0000	0.0764	0000	000	ç	5
LBO29 Idi	00.00	39.30	0.0221	0.0330	0.0	3	20.003	20.002	5	10.00	0.0092	0.0.0	70.00	0.0092	0.0/	0.07
LB029 rut10																
LB029 rut2	57.16	38.94	0.0285	0.0352	0.0215	0.1069	<0.003	<0.003	1.9313	<0.004	0.0987	0.0770	<0.006	0.0153	<0.01	0.0154
LB029 rut3	58.01	39.49	0.0367	0.0319	0.0123	0.1438	<0.003	<0.003	1.7949	<0.004	0.0935	0.0950	<0.007	0.0175	<0.01	<0.01
LB029 rut5	57.78	39.21	0.0379	0.0690	0.0253	0.1043	<0.003	0.0036	1.2792	<0.004	0.0909	0.0511	0.0070	0.0053	<0.01	0.0163
LB029 rut6																
LB029 rut7																
18029 11#8																
00000																
LBUZ9 I ut9																
LB036 rut1	58.85	39.63	0.0131	0.0110	0.0125	0.1588	0.0030	<0.003	0.5789	<0.004	0.0134	0.0769	<0.006	0.0107	<0.01	<0.01
LB036 rut10	58.85	39.59	0.0142	0.0240	0.0022	<0.02	0.0083	<0.003	0.7292	<0.004	0.0327	0.0253	<0.007	0.0187	<0.01	0.0110
LB036 rut11	59.10	39.75	0.0080	0.0100	0.0020	0.0319	<0.003	<0.003	0.6494	<0.004	0.0109	0.0711	<0.007	0.0341	<0.01	<0.01
LB036 rut12	45.81	35.18	0.0250	0.0065	0.0017	0.3932	0.0309	0.0296	15.0277	<0.004	0.0293	0.0360	<0.007	0.0156	<0.011	<0.011
LB036 rut13	58.95	39.62	0.0126	0.0070	<0.001	<0.02	<0.003	<0.003	0.6648	<0.004	0.0305	0.0158	<0.007	0.0229	<0.01	<0.01
LB036 rut14	58.81	39.82	<0.003	0.0136	0.0021	0.8799	0.0033	<0.003	0.3561	<0.004	0.0356	0.0142	<0.007	0.0237	<0.01	<0.01
LB036 rut15																
LB036 rut16																
LB036 rut17																
LB036 rut18																
LB036 rut3	58.93	39.61	0.0100	0.0133	0.0021	0.0227	<0.003	0.0112	0.5400	<0.004	0.0105	0.0830	<0.007	0.0247	<0.01	<0.01
LB036 rut4	58.08	39.47	0.0693	0.1655	0.0024	0.4576	0.0041	<0.003	0.5616	<0.004	0.0405	0.0393	<0.007	0.0166	<0.01	0.0102
LB036 rut5	59.49	40.04	0.0134	0.0110	0.0019	0.0884	<0.003	0.0040	0.6610	<0.004	0.0490	0.0278	<0.006	0.0323	<0.01	<0.01
LB036 rut6	58.78	39.55	0.0227	0.0026	<0.001	0.1328	0.0091	<0.003	0.6013	<0.004	<0.005	0.0261	<0.007	0.0112	<0.01	<0.01
LB036 rut7	58.82	39.60	0.0068	0.0122	0.0017	0.1556	<0.003	0.0033	0.5948	<0.004	0.0131	0.0606	<0.007	0.0092	<0.01	<0.01
LB036 rut8	58.67	39.52	0.0137	0.0041	0.0025	0.0531	<0.003	<0.003	0.7291	<0.004	0.0455	0.0948	<0.007	0.0193	<0.01	<0.01
1 B036 rufa	58 66	39 44	0.0236	0.0142	0.0057	0.0326	02000	<0.00	0.6073	×0.004	00200	900 U>	<0.00	0.0240	×0.04	0.0182
	00:00		0.0230		0000	0.000	0	200.07	2000	100.00	0.0700	999.50	0000	0.02	9	20.0
) IIIV.	"All elements are in wt. % (EMPA)	e III wr.	% (EMFA	÷												

Appendix C: Eastern Sunda arc rutile trace element chemistry (LA-ICP-MS)

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Analysis ID	A	Ca	Ce	Dy	Er	Eu	Fe	Gd	Ŧ	Mg	Mn	Nb	Nd	Pb	Si	Sm S	Sn T	a T	Th U	×	٨	Yb	Zr	F	
LB0251	815	4822	47.24	8.61	4.48	1.4	4008	10.47	20.9	138.1	203.8	317.5	32.57	45.6	2317	8.78					31.4 4	1.9 4.0	11 455.	.8 587094	98
LB025110	1015	352	10.93	1.29	0.88	0.2		1.17	40.1	1289.9	122.7	356.3	4.83	21.2	3134	1.01								.9 586600	000
LB025r11	1993	649	26.25	4.86	3.63	9.0		3.85	49.5	2094.2	229.1	328.6	14.47	1.1	4289	_		13.87 (				3.3 3.67		.9 5824	149
LB025112	1079	296	19.47	5.64	3.70	0.7		4.13	33.6	496.1	167.7	293.0	14.10	48.3	2392										929
LB025r13	3810	840	27.74	4.17	2.31	0.8		4.02	33.2	4245.2	340.6	275.7	16.48	54.9	8494										523
LB025_r14	821	473	33.74	5.12	3.06	0.5		4.00	36.8	357.1	132.9	304.7	16.56	28.6	3252										60
LB025115	1028	1088	49.77	11.07	7.52	4.5	4536	9.30	35.2	114.7	272.8	219.5	31.41	76.1	2722 FE 11							5.0 6.96			24
LB025_110	1051	900	33 33	92.5	2 . 4	9 6		20.0	6.00	288.5	262.3	261.3	46.04 46.04	2.0.0. 7.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.	- 25 - 25 - 25 - 25 - 25 - 25 - 25 - 25										8 8
LB02518	1192	1401	36.94	5.94	3.60	0.0		5.61	33.6	215.2	326.0	263.0	21.93	82.4	3604							2.5 3.53		,	88
LB025r2	1330	1348	35.23	3.99	2.25	0.9		4.16	24.3	447.4	226.5	282.6	19.37	55.0	3367										60.
LB025_r3	895	2100	20.55	5.21	3.47	9.0	3 4117	4.43	24.1	286.5	110.7	334.0	14.50	31.0	2516										.20
LB025_r4	4952	7646	93.02	13.65	10.41	2.0		12.55	45.3	632.4	262.5	342.3	54.79	61.4	10317							3.2 9.80			19
LB025_r5	1533	1899	119.86	14.57	7.46	3.7		17.05	30.5	217.1	302.5	270.7	60.50	87.1	4275										125
LB025r6	364	352	19.35	3.62	2.27	0.4		3.09	39.2	105.4	77.8	336.6	10.72	24.4	1640										36
LB025r7	066	1648	33.45	6.73	5.01	0.7		5.72	41.2	704.9	121.6	388.1	19.06	23.6	2277										89
LB025r8	3394	1873	24.94	7.11	5.16	0.8		7.35	37.3	1200.9	138.1	338.8	19.30	19.2	7057										029
LB025r9	521	1247	22.37	5.04	2.96	0.8		4.08	31.4	105.1	115.2	302.5	15.07	36.1	1729										80
LB032_r1	4470	460	2.81	0.47	0.25	0.2		0.46	1.7	102.1	17.3	135.2	1.86	18.1	4379										564
LB03210	2995	199	12.34	3.47	2.42	1.2		3.49	2.4	184.6	40.3	235.5	11.36	10.6	2197										<u>8</u>
LB032r11	7132	275	11.05	1.65	0.98	9.0		1.97	1.9	108.8	41.3	142.7	8.26	23.2	3612										926
LB032r12	4352	312	7.80	2.14	2.09	9.0		2.17	3.1	121.1	51.9	154.2	5.50	25.2	3046										123
LB03213	2386	451	18.61	3.73	2.59	1.7	•	3.81	2.2	150.6	46.7	211.5	13.63	9.2	3268										52
LB032_r14	1572	238	17.69	2.91	2.26	-		3.05	2.8	107.2	31.7	234.4	11.95	13.0	3519										25
LB032_r15	12165	1555	44.15	4.84	4.42	2.0		5.36	2.4	177.4	46.9	193.3	24.86	57.5	3425										52
LB032_r17	1722	<239.608	15.20	2. 44	1.61	8		2.84	2.5	124.2	26.7	165.8	10.59	7.2	2474										<b>8</b> 8
LB032H8	1735	154	8.09	09.1	 	9.0		8/.	ر دن در	127.9	S. 55.55	117.9	6.74	10.6	2133										<u> </u>
LB032H9	2856	499	28.02 15.15	95.c	20.02	0.1	19044	2.45	5.0	192.3	C. 87.	167.3	97.80	47.7	3626										24 60
LB032 r3	2622	321	24.01	5.18	3.87	1.3		4.95	2.5	123.0	78.0	203.7	16.51	29.1	4806										- 8
LB032 r4	2491	<172.212	1.76	0.31	0.17	0.2		0.53	3.2	109.2	19.5	105.6	1.22	4.7	32309										919
LB032_r5	3206	327	1.75	0.31	0.26	0.2		0.32	2.1	151.4	29.1	120.3	1.46	6.6	5263										35
LB032r6	3130	287	28.52	3.97	3.10	1.3	3 15804	3.89	2.7	123.0	49.4	198.8	17.47	19.0	6746										10
LB032r7	3797	299	13.05	3.79	2.50	1.0		3.32	2.7	141.0	27.3	183.1	9.29	35.2	4124										Ξ
LB032r8	5403	<152.464	11.86	2.36	1.75	<del>-</del> -		2.25	3.6	119.0	61.6	157.5	10.81	14.6	7652										16
LB032_r9	3108	457	23.04	3.40	2.02	1.7	7 77071	3.69	2.7	164.4	30.5	211.2	15.77	8.5	2798		105.6	10.14 28				3.6 2.28		.8 531578	878
LB033_110	1510	<139 001	5. 4	9.0	5.0	0.0		0.95	7.6	- 0	25.3	220.0	3.12	- 0	1023					,					9 2
LB033_r11	1529	<247.886	4.43	0.69	0.29	0.2		0.98	10.7	91.6	36.5	153.4	2.80	0.4	4387										23
LB033_r12	1609	<134.858	14.86	2.04	1.23	0.9	9 2097	2.14	10.4	91.6	7.2	346.4	8.62	0.3	2907										222
LB033r13	359	174	8.87	1.16	0.62	0.4		1.29	18.3	89.0	22.5	273.9	5.46	1.6	411										54
LB033_r14	750	<119.721	12.69	1.29	0.79	9.0		1.59	16.5	92.7	10.8	296.4	7.83	9.0	475										63
LB033r15	815	<123.711	6.30	0.76	0.49	0.3		1.00	12.6	85.7	30.6	271.0	3.89	6.0	1198										34
LB033_r16	9543	<116.809	9.84	1.13	0.83	0.7		1.33	12.4	404	4.4	290.7	2.98	0.5	21097	1.60									23
LB033_r17	1100	<120.817	7.26	1.01	0.65	0.4		1.05	16.5	86.7	10.3	351.1	4.39	0.2	3172	1.01									8 !
LB033_ r18	454	<119.790	8.28	1.35	0.73	0.6		1.49	0.40	89.2	×1.647	196.0	5.25	0.2	587	1.47	122.2								9 9
LB033_ F19	2552	337	27.72	9.00	5.27	 	101/1	12.13	0.0	5.40 5.40 5.40	244.0	0.1.72	22 20	χ. ς.	1979	10.24								7 578350	200
LB033 r20	21214	409	36.77	4.35	2.89	0.7	7	5.78	- 4 5 4	171.0	306.7	200.8	23.41	21.2	37818	5.82			24.94	9.46	146.6	23.7 2.6	7.89	, .,	108
LB033 r3	232	<227.352	8.62	1.40	99:0	0.7		1.93	21.8	87.3	29.9	247.0	5.05	1.7	909	1.52	122.6 2	96.8				6.5 0.6	423	4 5952	4
I	*AII	*All elements are in ppm.	ts are	in pp1	_											:	!						:	:	

Appendix C: Eastern Sunda arc rutile trace element chemistry (LA-ICP-MS)

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Analysis ID	₹	Ca	Ce	ģ	Ē	Eu	Fe	P9	±	Mg N	Mn	PN qN	q. Pb	is q	Sm	uS u	Ta	£	_	W	٨	Yb .	Zr T	_
LB033_r4	2218	139	32.47	2.60	3.06	1.5	1656	6.04	14.4	91.1	26.0	218.1	20.60	1.1	6394	5.77 9		00 1.86		129.3	24.5		322.3 5	586413
LB033_r5	4788	123	12.78	1.83	4.0	9.0	6520	2.48	13.0	111.8					4154	2.19 14			_	206.0	7.4	0.87	247.2 5	82495
LB033r6	614	<140.467	8.08	0.77	0.43	0.4	1876	1.1	14.7	97.8				0.5	784	1.51	80.6 16.28			143.7	3.2	0.54	4	95348
LB033r7	3782	367	14.07	1.45	1.00	0.7	1633	1.83	13.4	138.1		(0			5734	2.03			_	151.7	6.2	0.83	۷,	385250
LB033_r8	4949	143	28.39	2.64	1.24	£. 1	1681	3.35	14.5	97.0	12.5								_	127.0	10.0			578504
LB033_r9	1603	<128.806	14.15	1.89	0.97	0.7	1836	2.42	12.3	90.8										245.5	o. 6		-, -	94218
LB041 TI	8433 104	309	0.78	0.26	27.0	0.0	7887	0.27	76.1 7.6.1	192.2	υ κ υ κ	523.0	0.08	0.6 10	10256	0.12 14	148.7 39.46 143.3 31.15	46 2.50		358.0	8: 0		327.5	591775
LB04111	288	<124.961	2.70	0.27	0.20	0.7	8506	0.13	25.3	246.1				_					_	223.6	. t.		, .,	88048
LB04112	6738	<154.362	1.36	0.16	0.13	0.1	11206	0.14	27.5			482.6	29.0	3.1			86.9 27.80		4 26.70	500.3	: 5	0.28		62763
LB04113	8584	208	4.96	0.63	0.46	0.4	22987	0.71	12.3	8152.8						~	•	٠		7.1.7	3.8			46678
LB041114	13395	191	4.05	0.47	0.42	0.2	17660	0.49	8.5			_						•		1450.4	2.7			36537
LB041115	15752	43094	66.93	8.81	4.55	0.9	22287	14.23	8.7		2030.3	524.4			23627 1		-			530.8	47.1		142.8 4	480200
LB041r2	5334	526	3.58	0.75	0.38	0.7	12704	0.39	8.1					6.7 7				·	_	1384.3	2.3			66371
LB041r3	87	542	0.50	0.24	<0.005	<0.005	8691	<0.021	24.5						0> 666					326.9	0.3			89555
LB041r4	139	<308.332	0.56	<0.009	0.02	0.0	7222	<0.017	7.3	150.1				m				79 11.88		1298.7			124.4 5	90320
LB041r5	73	<179.436	0.43	0.02	0.01	<0.003	7951	0.03	13.9					0.1						630.1	٠			91128
LB041r6	2218	<137.491	3.14	0.64	0.41	0.1	6950	0.45	14.2				1.95	, 6.0	4995				_	422.2			244.1 5	583668
LB041r7	306	<156.999	1.4	0.71	0.79	0.1	20942	0.83	10.0				0.80	0.4						301.0	01			80804
LB041r8	255	<112.026	0.22	0.01	0.04	0.0	14215	0.03	0.69					ζ,						16552.0	01			70674
LB041_r9	290	<233.838	2.18	0.28	0.18	0.1	6773	0.24	14.9											763.1				88622
LB0451	11448	914	27.67	10.37	8.17	4.	3946	7.27	22.8					10.2			15.1 21.7			52.0	20.0	-		61857
LB045_r10	8537	683	66.03	21.95	17.73	3.2	3533	14.36	23.0											39.3				72656
LB045_r11	88/	1768	7.57	10.00	6.95	2.1	1616	6.57	20.8											9.6				91472
LB045_r12	141	304	4.71	9.72	90.9	- 1	2835	6.61	21.3						_					7.7		-		22022
LB045_r13	2686	1330	180.30	48.07	24.89	7.2	3255	52.47	21.3					10.9	_					23.3			469.2 5	83355
LB045 F14	3103	1287	110.93	7.02	09.00	0.0	0.040	90.04	72.0											01.0				81085
LB045_ F15	3121	<378 794	0.37	0.11	27.1.2	9.0	2839	20.40 <0.020	20.4		6.37	327.8		- 60	9710	0.4.50	36.2 20.7	22.02	0.15	y y y		0.08	534.1 5 482.4 5	595.308
LB045 117	103	658	98.6	3.27	1.02	0.1	3259	3.95	24.9											5.0			,	94469
LB045 r18	2071	451	64.21	20.24	14.27	2.1	2914	15.95	23.1											65.8				88715
LB04519	5933	1763	80.90	54.56	42.05	9.0	3399	33.05	49.3										·	44.8		_		72759
LB045r2	401	1025	27.64	25.16	15.15	3.3	2582	18.10	26.7											5.3				592270
LB045r3	1125	243	29.49	8.94	6.27	0.8	2715	6.15	21.7					_	_		13.0 16.3			39.4	44.5			90214
LB045r4	8462	716	20.55	10.95	9.41	1.5	2195	06.9	25.4			95.9			_					9.7				70380
LB045r5	1132	873	87.45	23.52	15.62	3.9	4053	20.96	20.5					_	_		_			19.6		18.39	00	87931
LB045r6	88	318	3.68	1.47	0.99	0.3	1755	1.51	18.7					9.0			6.7 5.4			0.9	8.0		ω	95893
LB045_r7	416	219	51.70	11.29	7.75	2.0	2222	9.82	23.2											0.0	52.8			94431
LB045_r8	43	<282.385	4.79	7.47	65.0	0.3	2920	97.7	25.5		_					20.1			_	9.7	7.4.	5.35		94010
LB045_r9	16065	958	107.57	30.71	20.12	0.4	2748	23.29	76.6 2.7	285.0	6.701	230.0	0.19				21.0 9.24	24 15.00	7 9.87	52.3	124.5		378.2 5	593694
ELF-03_r10	32	<318.117	0.18	0.01	0.03	0.0	5124	0.02	2.0					9.6 <617.722			_			785.3	0.2	0.04	 	394074
ELF-03_r12	11	154	1.72	0.17	0.11	0.0	4429	0.12	6.3						_					633.7	8.0	0.15	80.9 5	593307
ELF-03_r13	156	406	0.93	0.13	0.14	0.0	4645	0.17	4.8	_					_	_		18 2.36		217.7	8.0	0.14	53.8 5	593675
ELF-03_r14	3625	2567	2.48	0.65	0.59	0.1	8818	92.0	2.4		37.6	249.9		3.7				68 4.63		570.1	3.7	0.21	6	575139
ELF-03_r15	59	<132.896	0.20	0.07	0.02	0.0	3759	0.09	5.6	> 0.10	<1.958	47.3	0.05	2.7	348	٥,	214.3 2.98	98 0.45	5 12.66	146.7	0.3	0.04	4)	595487
ELF-03_r16	62	<131.968	0.56	0.04	0.01	0.0	5719	0.03	1.9		<1.952	198.8	0.32	0.1 <264			~	31 0.54	4 4.79	1110.5	0.2	0.02	0	93537
ELF-03_r17	46	<132.659	0.36	0.05	0.02	<0.002	5504	0.01	9.	113.2	3.6	81.8	0.21	0.2 <267	•	±0.006 15	_	39 0.92	2 16.15	49.2	0.2	0.05	_	594632
ELF-03_r18	385	1484	1.31	0.13	0.10	0.0	4461	0.12	5.3	126.7	45.6	328.1	0.70	1.7	1230	0.17 2.	273.8 22.98	98 5.56	9 13.30	9.899	9.0	0.11	<del>-</del>	91377
ELF-03_r2	8242 *	5 286 9.33 0.80 0.5 *All olomonte are in mum	9.33	0.80	0.58	0.3	13646	<del>.</del> .	3.5	9303.6	100.1	352.0	4.82	, , , , , ,	8873	0.96		50 9.7L	0 12.17	205.8	3.9	0.76	88.3	557911
		All elei	Telles a	ונב ווו ב	Juil.																			

Appendix C: Eastern Sunda arc rutile trace element chemistry (LA-ICP-MS)

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Analysis ID	AI	Ca	Ce	Dy	Er	Eu	Fe	PS	H	Mg Mn	l Nb	Nd	Pb	Si	Sm	Sn	Та	Th	۰ ۱	W	/ Yb	b Zr	i .	
ELF-03_r3	104	456	1.54	0.26	0.19	0.0	3809	0.39	5.7	124.4	6.2 19	193.5 1.0	2 0.3	1237	0.14	228.8	21.93	9.53	13.02	1997.0	1.2	,		592219
ELF-03_r4	304	<121.414	1.82	0.18	0.22	0.0	5192	0.11	9.0		_			527	0.28	33.0	4.72	2.16	2.92	8.8	1.0			593987
ELF-03_r5	248	<155.770	2.46	0.27	0.24	0.1	4740	0.21	4.2		_	4.3 1.28	8 2.2	1751	0.40	76.5	17.53	3.78	2.97	96.2	4.1			591656
ELF-03_r6	993	<152.263	5.19	0.53	0.27	0.2	3687	0.70	3.5	827.7	68.7 46	465.7 3.51		1464	0.83	109.7	26.72	7.77	17.44	660.1		0.26 7	4, 4	591529
ELF-03_7	94	<130.475	9 6	0.0	0.0	<0.002	4690	10.0	- 0				3 0.0	<244.163	0.02	233.0	40.04	3 95	5.33	250.1			20.1 58	594791
ELF-03 r9	38	<287.498	0.38	0.03	90.0	0.0	5711	<0.015	5 +	•	4.053 37	374.9 0.18		869	0.02	275.4	11.51	09:0	10.99	971.3			,	592551
GBF-04_r2	1350	926	55.27	9.85	5.04	4.1	2905	12.08	3.1		_		3 2.8	3827	13.78	277.0	2.64	1.95	10.21	1046.7				38313
GBF-04_r3	6541	4629	109.06	20.10	11.26	3.4	8183	22.98	4.6		~	-		17966	20.77	86.7	5.11	9.85	23.87	786.3		_	٠,	56016
GBF-04_r4	6714	10477	30.17	8.95	6.34	1.3	8373	9.10	3.3		106.0 21		5 14.1	19453	8.04	332.7	8.51	5.41	7.98	1696.8		_	-,	549376
GBF-04_r5	3875	8037	80.21	17.07	10.79	6.2	4195	20.96	1.2		_			10594	20.33	398.5	1.02	1.24	5.39				-,	39939
GBF-04_r6	14599	606	26.48	13.84	13.13	1.7	2909	10.29	9.9					18255	7.01	54.4	4.3	2.52	4.11		72.7		٠,	51789
GBF-04_r7	2692	14735	20.70	40.43	31.59	3.0	3989	29.87		118.7	6.9	79.6 28.90	0 6.5	13697	14.60	322.6	4.75	2.86	6.88			35.94	_	58940
GBF-04_r8	28	<135.352	0.17	0.04	0.01	0.0	5938	0.02	10.3					346	0.04	128.9	5.92	0.89	16.62	1709.6			-	32621
GBF-04_r9	491	970	10.21	1.57	0.64	0.3	4629	1.80	ო .					1459	2.24	152.2	21.56	1.3	9.75	1085.4			-, .	91102
SPF-05_r2	1164	<391.841	13.88	2.25	0.90	4.0	15640	88. 88.	5.7					2482	2.42	33.3	14.67	23.85	6.58			123		30478
SPF-05_r3	29299	77143	31.41	20.70	14.87	4.0	18180	16.05	0.0					82700	12.78	24.2	8.74	16.28	5.40				.,	34794
SPF-05_r4	28851	1083	14.83	1.83	0.81	0.3	41989	2.85	1.1			156.2 13.79		40934	3.06	61.9	11.75	3.69	5.93	71.2			•	54197
SPF-U5_r5	14215	34795	13.67	22.8	4.59	2. Y	13104	71.15	8.0			3.2 52.59		44045	10.54	113.7	9.71	9.16	11.96	848.2		3.88	13.0 46	00329
NEF-02-12	9	×136 973	27.78	2.2	20.0	2 0	7694	2.30	t 0					1216	5 .0	- 22	23.68	2 . 5	36.63	5724.8	40			, de 100 100 100 100 100 100 100 100 100 10
NEF-02 r10	8 8	<135.478	1.63	0.28	0.26	0.0	10193	0.18	5 4	119.5				<261.992	0.25	109.8	15.98	3.29	19.17	1983.8				37884
NEF-02_r11	187	<109.922	0.73	0.15	0.12	0.1	4016	0.07	2.9			130.7 0.27	7 19.0	482	0.08	103.5	5.02	2.06	13.16	182.8				94865
NEF-02_r12	1238	<129.681	5.56	0.48	0.29	0.1	6409	0.48	7.2	759.0				1189	0.36	105.3	8.16	10.29	19.65	893.1			169.6 58	39332
NEF-02_r13	536	2314	13.81	1.19	09:0	1.2	4884	1.46	1.1					2866	1.03	70.5	11.81	0.23	7.13	164.8	_			38482
NEF-02_r14	2712	418	6.45	1.22	0.95	0.2	9602	0.73	9.8					4076	0.51	186.9	11.43	5.69	25.34	1639.2		0.89 21		9220
NEF-02_r15	219	<128.626	1.06	0.10	0.13	0.0	5713	0.12	0.6			3.8 0.52	2 2.7	<251.196	0.15	86.3	12.14	2.74	15.91	2175.1	0.7			32365
NEF-02_r16	16488	370	7.49	1.1	0.84	0.2	4670	0.68	2.3					18801	0.58	64.6	22.01	7.92	12.79	150.5				51221
NEF-02_r17	1155	1104	89.97	13.53	7.14	3.2	13183	13.40	8				0 4.7	761	14.27	74.3	14.03	21.23	19.81	242.7		5.45		34026
NEF-02_r2	£ 6	248	90:1	0.13	0.07	0.0	41/5	0.17				9.6 0.45		848	0.17	1.701	7. t	50.0	8.28	1133.1			0.41	37395
NEF-02_r3	33	<246.143	0.40	0.15 4.50	0.04	0.0	4598	0.10	31.7	96.8	26.5 17			<505.346	0.10	73.7	25.39	0.18	5.15 23.95	220.0	0.4			578310
NEF-02 r5	¥	<165.478	1.30	0.13	0.22	0.1	4823	0.21	42.2			5.5 0.64	2.3	1843	0.07	1.42	157.93	0.36	16.03	1675.5			, .,	39630
NEF-02_r6	119	<158.334	11.40	1.85	0.95	0.3	5011	2.51	9.0					711	2.10	114.6	11.70	3.35	27.81	1891.1			139.8 56	32177
NEF-02_r7	44	<142.803	1.57	0.12	0.10	0.1	5048	0.05	10.1			7.6 0.84	4 0.6	512	0.09	77.4	14.09	3.69	14.05	321.1	1.0	0.16 27	٠,	33784
NEF-02_r8	49	<189.826	3.75	0.41	0.24	0.1	3779	0.33	9.3		56.1 24		1.8	438	0.38	72.7	7.46	3.27	12.72	466.7	1.9		٠,	34902
NEF-02_r9	414	<173.380	1.31	0.11	0.03	0.0	7270	0.26	2.1				3 1.9	1196	0.11	124.2	19.82	1.25	5.61	8.989	0.5		٠,	99006
ELF-01_1	109	<135.671	60.99	2.45	0.96	0.8	7765	4.87	2.0		4.8 16	9.2 41.58	1.2	1177	7.80	78.5	11.01	2.90		105.5	7.1		22.1 56	30277
10.10	350	2 6 7 7	9.0	5 5	3.0		11021	5.0	- o					1,000	÷ ;	- 20	42.33	26.5		0.00.0	j (		, -	0021
ELF-01_11	84	<129.024	0.00	0.02	0.00	0.0	6187	<0.004	- 0	112.8		203.1 0.14		303	0.03	28.2	10.20	2.67	4.03	173.3		0.09	127.9 59	592332
ELF-01_113	1642	289	14.93	0.89	0.31	0.2	10746	1.51	4.6		. 0			2985	2.18	167.6	26.05	10.35		4097.6	2.6		,	578391
ELF-01_r14	206	<116.458	0.28	90.0	0.07	0.0	12977	0.03	6.3	_	_			<208.848	0.05	8.96	33.75	69.0		12618.1	0.3			576477
ELF-01_r15	28	145	0.17	0.02	0.01	<0.001	10107	<0.004	7.0	_	_			<206.221	0.00	59.1	7.36	3.50		6766.5	0.1	•		35117
ELF-01_r16	307	<126.565	1.52	<u>4</u> .32	0.56	0.4	7194	1.44	3.9		01	_		484	1.34	140.0	28.41	1.57		34.2	4.0		10	290387
ELF-01_r17	145	<325.797	0.09	0.02	0.02	<0.003	15652	<0.009	9.4	_	21.8 18	_	3 0.2	1001	<0.011	122.6	13.40	0.94		21221.6	0.1	0.06 15	151.2 56	567545
ELF-01_r18	<b>2</b> 5	<140.842	0.23	90.0	0.02	0.0	9996	0.02	6.5	86.8	3.2 86	868.3 0.25	5 0.1	<252.236	0.04	70.5	40.53	1.38	14.96	7664.3	0.2		٠ س	582317
ELF-01_r19	2098	331	16.67	0.91	0.52	0.3	7513	1.30	5.5	367.1	16.9 40		8 1.2	3619	1.98	113.5	64.15	7.40	18.78	1356.7	3.8	•	-,	583145
ELF-01_r2	94	529	38.15	2.40	0.88	0.4	7340	4.29	2.9	75.7	14.1 22	226.0 31.9	3 0.5	930	6.87	137.1	13.60	5.96	1.69	531.1	7.0	69.0	34.8	90654
ELF-01_r20	147	1115	7.22	<u>.</u>	0.72	0.2	7468	1.32	9.9	99.3	4.0 38		3 0.4	952	1.14	8.48	28.94	7.10	26.13	1791.4	6.1		-,	988341
	<i>1</i> .	*All elements are in ppm.	nents a	re in 1	opm.																			

Appendix C: Eastern Sunda arc rutile trace element chemistry (LA-ICP-MS)

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Analysis ID	₹	Ca	3	Dy	ŭ	I	e e	gg	¥ H		uw		Nd PD			S.m.	Sn	-	>	>	<b>-</b>	ΛD	7Z	=	
ELF-01_r21	704	<156.770	0.29	0.05	0.02	0.0	18333	0.02	3.1	103.7			0.22	0.0	<280.389						.0 0.8	.2 0.05		-/	ω.
ELF-01_r22	199	112	17.29	1.69	1.10	0.4	8281	1.82	0.6	106.5	28.4 9	_	13.81	9.0	1558	2.44			7.91 18.		.7 6.3	4.1	98.4		_
ELF-01_r23	81	<180.073	0.83	0.08	0.10	0.0	8673	0.11	6.7	93.0	(,)	320.3	0.57	0.2	1175				_		5.8 0.	.3 0.0		4,	•
ELF-01_r24	823	4145	7.09	0.68	0.36	0.1	8979	1.16	6.2	102.8	41.4		5.34	0.4	3760		108.1	27.93 5	<b></b>		1.8	.8 0.39		-/	_
ELF-01_r25	572	222	49.50	6.70	90.9	1.2	8630	6.92	7.8	122.8	•		30.79	4.1	1385				_	_	4	96.7 3.		-,	"
ELF-01_r26	152	126	34.59	1.96	0.70	0.5	7074	3.29	4.0	89.7	.,		27.97	0.3	927		86.3	10.15	_	_		_		4,	_
ELF-01_r27	190	122	26.62	2.42	1.38	9.0	8392	4.12	5.6	110.3			24.72	9.0	1035			_	_	<u> </u>	_		_		
ELF-01_r28	86	×111.194	1.42	0.29	0.18	0.7	7449	0.35	دن ر دن ر	87.2		501.0	1.08	0.0 r	693			21.49 0				1.3 0.2		590866	· ·
ELF-01_r29	639	276	2.80	0.55	0.41	F. 0	8831	0.40	D	_	29.9		6/.1	υ. υ.	163/					-	838.9	7. 0.53	20.7		+ /
ELF-01_r3	۵ (	<220.126 105	24.50 74.50	0.78	0.10	S. O	4 6	Z.5 Z.0	O. 4	. 0.00		0.004	20.08	0.0	1032		4.1.4	20.19			6.7.	5.0 0.3			
ELF-01_r30	303	185	22.45	0.43	0.83	0.5	9924	2.84	2. 4		35.3		1.37	ο. <del>c</del>	913	3.87			5.56 17.23	21 6394.2	6 6 6	0.40 0.70	56.2	., -	\ <del>-</del>
ELF-01 r5	1697	266	2.05	0.22	0.30	0.0	8186	0.43	7.3	_		359.2	1.40	2.2	7018						0.0	.5 0.1			
ELF-01 r6	325	<u>\$</u>	1.30	0.22	0.15	0.0	13412	0.15	6.4			554.6	0.65	1 6.	774		55.8		15.03 27.		1.6	0.32		,	
ELF-01 r7	788	321	12.18	4.77	5.18	0.7	7936	3.91	7.1			657.0	8.11	5.7	1235	2.57					3.3 33.4				
ELF-01_r8	263	159	6.27	0.87	0.57	0.2	11960	0.95	12.0		-	478.3	5.59	1.2	609	.,			2.17 3.34			01	51.6		10
ELF-01_r9	91	<148.308	0.17	0.03	0.03	0.0	10631	<0.005	7.1			170.2	0.02	0.1	363						5.9	.2 0.0	_		"
ELF-02_r1	1332	<118.573	2.50	0.49	0.36	0.1	9780	0.39	4.8		•	237.9	1.54	0.7	2630						3.2 2.	.2 0.6			6
ELF-02_r10	232	<108.769	0.14	0.03	0.01	0.0	9617	0.15	6.3			141.4	0.12	0.4	490						9.4 0.1				10
ELF-02_r11	196	<139.376	0.13	0.00	0.02	0.0	9318	0.01	15.8	94.9	22.2		0.08	0.2	416	0.02	53.5	24.09 2	2.10 15.		5.5	.1 0.00	.,		٥.
ELF-02_r12	196	<111.276	0.13	0.04	0.03	0.0	10028	0.03	2.6				0.11	0.4	1238						1.2 0.	.2 0.10		582425	10
ELF-02_r13	228	<112.921	0.05	<0.002	<0.002	0.0	10469	<0.004	3.7			372.2		<0.005	296						6.0	.1 <0.00			_
ELF-02_r14	344	<115.177	0.31	90.0	0.03	<0.001	7369	0.03	3.4				90.0		329						4.0 0.4	.2 0.0	49.6		6
ELF-02_r15	126	<113.826	1.22	0.39	0.17	0.0	7215	0.36	8.4				1.02	0.2 <20	<205.781						3.1	.8 0.20		-/	٥.
ELF-02_r16	212	<139.143	1.97	0.39	0.43	0.0	6300	0.09	7.1				69.0	_	316	_					0.0	.0 0.38			0
ELF-02_r17	14544	<124.701	1.31	0.26	0.16	0.0	12717	0.14	9.2 2	2092.9			0.83	~	16384		133.7		_		1.3	.8 0.20	160.4	535801	_
ELF-02_r18	388	<113.943	90.0	0.02	0.01	0.0	13254	0.01	00				0.04		05.890						6.8	.1 0.0			_
ELF-02_r19	145	25848	12.01	1.72	0.85	0.4	7826	2.76	11.4				10.43	0.5 <2	54.509						6.5 7.	.9.0 9.		-,	ω.
ELF-02_r2	156	<236.632	15.34	0.58	0.22	0.3	6258	1.37	8.9		9.7				2286	.,		16.13 20	20.46 9.01		2.0 2.	.1 0.1			ω.
ELF-02_r20	179	<114.490	0.00	0.01	<0.002	<0.001	7637	0.03	8.1						06.808		94.3				5.1	.00 <0.00			"
ELF-02_r21	153	<114.703	<0.001	0.01	0.01	<0.001	7664	<0.004	3.5						07.151						0.	.00.0> 0.			_
ELF-02_r22	898	330	0.62	0.18	0.08	0.0	11229	0.08	4.0				0.38	1.0	646	0.10	_				.2.2 0.	.4 0.13		-,	
ELF-02_r23	185	<223.692	0.04	<0.004	<0.003	<0.002	5188	<0.006	2.0			V	<0.006	0.2	1475					3.25 189	0.	.0 <0.00			_
ELF-02_r24	1416	<446.911	0.72	0.10	0.13	0.0	14130	<0.012		149.9	19.2		0.22	_	3104						1.0	.5 0.26	24.8		
ELF-02_r25	255	<115.621	0.33	0.02	0.05	0.0	7357	0.07	10.9		4		0.05	٠	08.731	0.02					1.0	.3		583230	
ELF-02_r26	386	<106.722	0.38	0.05	0.03	0.0	13078	0.10	7.7		•	454.0	0.34	0.2	1295		109.6	57.15 1	1.14 33.48		2.5	2. 0.0			
ELF-02_12/	707	×109.323	4:0	0.00	0.03	0.0	327.0	5 5	4. 6		4	0.00	0.10	0.7	•					41 3900.2	2.0	4.	•		
ELF-02_129	370	<112.630	1.36	0.24	0.07	0.1	4142	0.31		234.0		127.7	1.12	- 0.4				_				0.8 0.1		,	
ELF-02_r3	336	<111.217	0.09	0.03	0.01	<0.001	13974	0.02	6.3			_	90.0	0.3	1439	0.00	_		_	77 25405.0			120.7		~
ELF-02_r30	212	275	0.20	0.04	0.02	0.0	9339	0.03	9.9		.,	332.8	0.14	0.3			.,		0.11 42.12		9.6	.2 0.0			10
ELF-02_r31	182	<112.698	0.01	0.01	00.00	<0.001	6774	<0.004	7.7				<0.003	0.0	1206 <						0.1 0.	.0.0 0.0		-,	"
ELF-02_r32	245	145	0.04	0.02	00:00	0.0	11978	0.03	6.5	91.1	2.3	470.7	0.03	0.2	774		-	10	.,	_	0 9.6	.1 0.0		-,	~
ELF-02_r4	2249	184	1.85	0.38	0.31	0.1	8375	0.48	6.1		•	222.6	1.35	2.6	5187		139.0	_	•		1.1	.5 0.26		-/	_
ELF-02_r5	12494	113	0.35	0.04	0.07	0.0	5435	90:0	3.4	454.7	5.2	176.2	0.22	0.3	15337				0.33 12.47		.3.0 0.5	.3 0.0		55441	_
ELF-02_r6	1884	<111.895	4.80	0.99	0.39	0.3	4635	0.95	4.3			186.6	3.85	8.0	3679	· ·	126.8	_	0.65 6.	64 76	765.0 2.	.5 0.3	85.7	584280	_
ELF-02_r7	2583	<228.677	2.00	0.45	0.22	0.0	9220	09:0	2.6 2		7		4.36	9.0	3701		·	~			1.7 1.	.8 0.16		4,	"
ELF-02_r8	293	<111.527	0.01	0.02	<0.002	0.0	14432	<0.004	5.2		2.1	•	<0.003	0.0		_		<b>'</b> 0	0.51 33.74		3.7 0.	0.0		-,	•
ELF-02_r9	114	<111.919	0.04	<0.002	0.01	<0.001	0006	<0.004	2.1		•	264.7	0.03	0.0	_	:0.003	70.4	17.76	.05 12.	12.13 10700.7	0.7 0.	.1 <0.002	24.8	-,	
LB005_r1	66	3262	3.15	0.79	0.48	0.1	3078	0.79	20.8	112.9	26.4	351.4	2.46	0.4	1529	0.74	31.1	0.16	.00	33 2	8.7 3.	.8 0.22	•	589378	•
	* `	*All elements are in ppm.	ıents a	re in t	opm.																				

Appendix C: Eastern Sunda arc rutile trace element chemistry (LA-ICP-MS)

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Analysis ID	¥	Ca	క్రి	δ	Ęŗ	Eu	Fe	Вd	≥ +	_	_	PN	Pb	Si	Sm	Sn	Та	£	> 	٠ ٧	¥	Zr	F	
LB005_r10	20	924	1.29	0.22	90.0	0.0	7135	0.22	23.0	229.6 1095.3	5.3 396.6		0.4	849	0.22	30.5	17.06	0.89		17.2	6.0			288087
LB005_r2	26	<234.120	0.42	0.11	0.05	<0.002	2739	90.0					0.5	1838	90.0	35.7	13.91	0.21		1.1		0.05	-,	1881
LB005_r3	4	<259.761	0.61	0.03	<0.004	0.0	3432	0.16					0.1	727	90'0	27.3	20.51	0.14		15.8			-,	592692
LB005_r4	22	<247.182	0.09	0.04	0.02	<0.002	2761	0.02					0.2	292	0.02	32.8	22.18	0.10		10.8				93665
LB005_r5	25	<230.926	0.04	0.02	<0.003	<0.002	4052	>0.006					0.1	283	<0.008	63.5	14.80	0.04		69.4	٧			2399
LB005_r6	1151	1007	1.69	0.49	0.80	0.0	3302	0.16					0.7	3426	0.22	32.5	18.35	0.73		16.7			-,	5554
LB005_r8	120	1590	6.59	0.64	0.08	0.2	2320	0.68	4.4				0.4	096	0.94	53.0	15.53	0.36		24.4	2.2		-,	0788
LB005_r9	133	<245.172	0.57	0.04	0.02	0.0	2729	0.04					1.5	10515	0.11	46.5	16.31	0.08		38.8			-/	0927
NAF-01_r1	70	<234.252	0.91	0.16	0.09	0.0	3942	90:0					9.0	1140	0.11	302.5	12.95	1.49		563.3				2057
NAF-01_r10	33	<297.779	0.08	0.02	0.03	<0.003	3660	0.04	143.0				0.1	<561.683	<0.010	86.8	82.51	0.20		248.1		(,)	٠,	2992
NAF-01_r11	243	4823	3.28	99.0	0.60	0.2	6010	0.73	1.0				17.8	3821	0.46	190.2	9.52	5.59		2042.7				2038
NAF-01_r12	24	<305.525	1.19	0.19	0.08	0.0	4396	0.09	2.9				2.0	<575.194	0.09	438.8	06.90	3.48		647.9			-/	3357
NAF-01_r2	21	<249.553	0.72	0.03	0.05	<0.002	4500	0.08	2.2				3.7	069	0.02	689.1	4.48	2.51		549.2			-,	2896
NAF-01_r3	45	332	4.43	0.35	0.28	0.1	4767	0.44	6				3.4	982	0.69	154.8	12.20	1.70		1813.9		_	-,	1295
NAF-01_r4	52	251	3.58	0.36	0.19	0.0	4882	0.37	2.1				3.3	749	0.57	278.7	14.95	3.13		2028.0			٠,	1235
NAF-01_r5	33	<251.315	0.28	0.09	90.0	<0.002	4860	0.02	4				0.4	<475.772	<0.008	248.2	34.64	0.14		573.5				2603
NAF-01_r6	191	1622	13.36	1.64	1.16	0.2	4615	1.57	8.8				1.8	1255	1.36	0.66	81.50	7.96		3033.8				7684
NAF-01_r7	79	125	0.67	90.0	0.05	0.0	6119	0.12	~				1.2	253	0.15	554.0	20.98	1.20		5502.1			-/	7674
NAF-01_r8	491	5649	2.52	0.70	0.66	0.1	6064	0.56	4.3				3.5	3720	0.38	213.3	20.41	2.84		1905.9			-/	1114
NAF-01_r9	420	751	27.48	5.86	4.75	<del>[.</del>	3813	4.33					2.5	1269	4.45	158.6	67.77	3.50		682.9		_	-/	9217
NAF-02_r1	99	<107.430	0.30	0.07	0.05	0.0	4975	0.07					2.5	1259	90.0	342.4	44.70	0.56		65.3			-/	2124
NAF-02_r10	1041	<134.832	0.09	0.05	<0.002	0.0	5988	90.0					9.0	1736	0.01	292.8	30.21	0.40		140.9			٠,	8500
NAF-02_r11	89	<226.083	0.03	<0.004	<0.003	0.0	8714	>0.006					1.7	<420.904	<0.007	529.3	20.28	0.24		270.9			٠,	0024
NAF-02_r12	156	189	8.55	1.77	1.51	0.3	4798	1.08					8.7	405	1.45	749.8	27.58	2.32		34.4		_		3185
NAF-02_r13	20	<106.786	0.03	<0.002	<0.002	<0.001	4584	0.01					1.7	360	00.00	110.2	9.52	0.04		64.5			-,	4237
NAF-02_r14	807	<118.136	0.10	0.02	<0.002	0.0	5749	<0.005					4.3	1711	<0.004	7.85.7	85.06	0.25		9.06			-/	8731
NAF-02_r15	88	<112.336	0.01	<0.002	<0.002	<0.001	4681	<0.004					0.3	386	<0.004	299.6	10.82	0.03		26.8			٠,	3982
NAF-02_r16	40	<114.059	0.18	0.02	0.02	0.0	6459	0.02					1.7	213	90'0	294.5	74.50	0.82		31.2			-,	2357
NAF-02_r17	83	175	0.35	0.08	0.05	0.0	4982	0.10					6.7	2038	90.0	421.9	47.30	1.74		21.2				7231
NAF-02_r18	25	<125.560	0.12	0.01	0.00	<0.001	5479	<0.005					0.5	347	<0.004	795.8	48.48	09:0		98.2				2579
NAF-02_r19	45	<111.950	0.07	0.01	<0.002	0.0	6481	×0.004					0.3	243	0.01	669.4	39.43	0.41		29.2				2187
NAF-02_r2	48	<113.851	0.09	<0.002	<0.002	<0.001	4443	0.02					0.3	930	0.02	67.0	7.46	0.13		0.7	0.0		-, .	3812
NAF-02_r20	9 9	<133.5//	0.07	0.03	0.00	r00.0>	5360	r0:0					9.7 P. 0	308	10.0	799.1	75.01	0.23		98.7		_	.,	737.1
NAF-02_r21	94 r	411.808	0.13	0.07	0.03	0.0	2476	\$00.005					10.5	315	<0.004	590.6	68.15	0.51		31.2		_	., -	2758
NAF-02-13	2 %	121	6.6	20.00 V	5 6	0.00	4677	20.00					5 5	687	600	324.0	1 00	0.02		2.5			, -	3598
NAF-02 r5	17149	314	4.08	1.12	0.41	0.2	17898	0.93					42.7	20196	0.83	83.2	16.97	2.57		18.5			,	5702
NAF-02_r6	183	<131.315	0.48	0.14	0.07	0.0	5030	0.14					15.3	863	0.10	401.5	73.39	1.35		89.2			-,	1269
NAF-02_r7	45	<230.117	0.57	0.03	0.03	0.0	17424	0.10					0.4	<429.173	0.03	43.6	17.65	1.07		1.5			-,	4583
NAF-02_r8	24	<306.355	0.40	0.08	<0.004	<0.003	4055	0.09					1.7	<570.937	0.14	43.7	10.22	0.36		0.7			-,	4722
NAF-02_r9	52	<117.521	0.02	<0.002	<0.002	0.0	6009	<0.004					5.5	<208.285	0.04	402.6	74.62	60.0		12.2			-,	3959
NAF-03_r1	214	<126.274	1.53	0.25	0.12	0.0	3201	0.12					2.1	1015	0.16	239.3	22.69	5.28		2364.0				0186
NAF-03_r10	52	<126.102	0.16	0.04	0.01	<0.001	2300	0.03					0.3	1565	0.01	209.3	10.35	3.49		1858.8			٠, .	0935
NAF-03_r11	5767	317	5.10	1.96	1.23	0.0	10050	1.59					2.8	10421	1.44	148.2	9.53	3.58		1579.3			-, .	2110
NAF-03_r12	2 5	5227.505	2.68	69.0	0.74	0.2	7842	9.0 10.0					υ. υ.	96	7.70	80.0	42.11	8.78		65.1	0.4		.,	7,582
NAF-03_F13 NAF-03_714	51.0	<329.257	87.0 0.03	0.09	0.27	0.0	3643	0.00	18.0	76.3 <3.326	5.1 207.0	3 0.02	0.0	1373	0.05	1.4.0	39.15	84.5	38.93 45.28	3889.6	0.1	0.17	45U.3 58 323 5 58	283052
NAF-03 r15	2417	914	96.48	56.85	43.26	8.0	8775	43.41		, m			26.1	4850	28.56	190.7	9.43	15.77		603.3				6892
NAF-03_r2	695	171	4.31	0.71	0.37	0.2	3745	0.82	19.4				1.7	2121	0.79	160.9	22.05	7.33		638.1	3.0	_	٠,	9376
NAF-03_r3	143	284	2.71	0.46	0.27	0.1	3054	0.32	26.9	123.9 6			4.3	1627	0.35	79.1	60.6	4.95	31.67	114.0	1.9		9.7 59	1656
	<b>7</b> *	*All elements are in ppm.	ents a	re in p	pm.																			

Appendix C: Eastern Sunda arc rutile trace element chemistry (LA-ICP-MS)

					•				-	F	-	ŀ	ŀ	F	-	-	,					_	_	_	
Analysis ID	₹	Ca	Ce	ò	Ę	Eu	Fe	РS	_ ±	Mg	Mn	QN QN	Nd PN	Pb		Sm	Sn	Та Т	급	8	Υ	Yb	Zr	F	
NAF-03_r4	546	<263.872	3.50	0.84	0.96	0.1	3977	0.52	17.2	562.4	8.77	317.3	2.05	0.5	2049	0.46	102.6		3.76		co	7.0 2	2.46 395.	က	589512
NAF-03_r5	26	<117.484	0.17	0.05	0.03	0.0	4314	0.05	26.7	108.4	51.4	188.2	0.16	2.0	363	0.03	132.7	6.13			7			-,	591411
NAF-03_r6	249	<136.551	0.11	0.04	0.01	0.0	4982	0.02	28.7	179.3	9.7	173.6	0.05	<del>[</del>	646	0.01	180.1		•		109.4	0.2 0		٠,	289980
NAF-03_r7	4	<244.507	0.08	0.01	0.02	<0.002	1179	0.02	10.8	77.4	10.1	42.1	0.01	<del>[</del> :	721	<0.008	249.1		_	Ø	2094.4	0.1 0		258.4 590	290608
NAF-03_r8	2176	319	3.14	92.0	0.24	0.1	5388	0.54	16.7	496.8	24.4	33.7	1.36	<del>-</del>	5441	0.39	97.2		•		148.3	3.0 0		/	581394
NAF-03_r9	47	<307.836	0.48	0.05	×0.004	0.0	3641	0.14	6.5	79.8	4.8	324.9	0.44	•	<576.802	<0.010	109.6	_			388.9	0.3 0	0.02 23	-, .	592334
SLG-01_r1	63	×112.901	6.44	70.1	0.53		97.78	0.95	16.6	92.9	206.4	861.5	3.24	4.4	693	0.91	73.7		6.32		27977	0 0.4		535.6 592	992050
SLG-01_F10	1047	\$233.284 445.004	0.03	0.60	0.07	5.0	0/13	0.90	0.0	- 740	205.1	846.7	00.7	D 0	0/911	0.73	202.0	20.13		00.1	0.25.0			., .	000004
SLG-01_111	166	<145.9Z1	10.42	0.30	0.27	0:0	481/	0.11 3.64	φ. α. 4. Δ.	97.2	34.1	698.3	0.26	1.7	397	1.82	259.3					0 9.1		., -	563312
SIG-01_113	3650	<112 781	0.42	0.50	50.0	6.0	6285	3.04	± .0. 5.	270.5	2.24	0.51.5	0.10	t. 07	5874	20.0	142.5							, .	21.50
SLG-01 r15	618	274	12.04	1.92	1.32	0.3	7641	1.50	11.6	288.2	80.1	1970.9	4.84	15.2	965	1.19	135.2	_	_	24.30			_	281.9 587	587997
SLG-01_r16	286	<232.764	0.48	0.41	0.19	0.0	7855	0.34	8.9	101.0		1226.0	0.40	5.6	1700	0.18	378.0	_				_			40
SLG-01_r17	52	<126.377	1.65	90.9	10.98	0.2	5516	1.61	157.2	85.4	_	980.5	09:0	15.7	1987	0.32	228.1			56.03 44			~	7606.7 583	1214
SLG-01_r18	892	<276.922	60.6	2.99	1.90	0.4	2877	1.58	18.9			1416.5	4.85	7.7	2085	1.28	95.1	_				10.4 2	_		587738
SLG-01_r19	494	135	7.45	1.28	0.67	0.2	7004	0.90	16.6			1048.3	3.61	13.8	2193	0.73	109.5	34.09	2.44 2			4.5 0	_		588220
SLG-01_r2	248	250	2.29	22.50	19.04	6.0	6292	9.57	19.0			1847.4	2.12	8.2	743	2.56	189.0				_	175.4 19	_		374
SLG-01_r20	561	<119.398	3.89	1.01	0.88	0.2	8946	0.62	18.8	169.5		1481.2	1.97	9.8	1165	0.55					273.3	_		-,	587371
SLG-01_r3	775	18327	39.71	13.75	14.19	3.1	7058	10.54	281.2	114.4	82.7	1350.8	32.36	54.3	9748	9.62					¥		7		548826
SLG-01_r4	425	<104.749	0.85	0.49	0.37	0.1	7267	0.34	6.8	112.4		2358.2	0.65	3.9	1114	0.18						2.5 0			587613
SLG-01_r5	1466	<131.783	0.85	0.30	0.29	0.1	9538	0.15	8.6	144.2		7405.9	0.27	1.3	2444	0.01	-								579482
SLG-01_r6	20264	<139.330	3.26	0.74	0.71	0.1	5488	0.50	19.0			2420.4	1.54	5.9	26370	0.35	113.8	157.23	_	40.63 24	248.7				312
SLG-01_r7	29	<108.047	0.13	0.03	0.03	0.0	5459	0.03	18.9			1785.5	90.0		<196.426	0.02									590872
SLG-01_r8	294	1327	26.96	2.59	1.52	0.8	2867	2.54	15.2				16.82		1510	3.03		.,							612
SLG-01_r9	321	<136.682	3.91	1.09	0.83	0.1	8318	0.53	11.6		106.0	_	1.72			0.34	220.4								588169
SPF-06_r10	108	<128.128	0.01	<0.002	<0.002	<0.001	3704	<0.005	12.5	84.3	1.758					<0.004	206.8					_			,656
SPF-06_r11	123	<116.463	0.13	0.01	0.01	0.0	7430	0.02	2.0		6.6		0.07	9.0		<0.004	9.62		2.04 7.			0.1 0			1274
SPF-06_r12	95	<136.020	90.0	0.01	<0.002	0.0	5159	0.01	8.5		<1.857	173.6	0.01	> 0.0	<238.399	×0.004	234.5							179.6 591	591755
SPF-06_r13	631	<137.868	4.31	0.22	0.13	0.2	5375	0.14	25.4	150.0	23.8	481.2	1.75	9		0.38	120.2		3.40			_		٠, ,	862
SPF-06_r14	268	<120.468	1.11	0.24	0.12	0.0	5586	0.26	26.9	742.4		1133.5	0.72	_		0.16	138.3				416.9			٠, ,	223
SPF-06_r15	105	<122.026	0.04	0.00	0.02	0.0	1966	0.01	3.5	88.8	2.5	49.4 230 F	0.02	0.1	1248	0.01	145.4	1.27		8.89 308		0.1	00.00	4, 4	589366
SPF-06_17	98	<136.187	0.36	0.02	0.03	0.0	7840	0.01	2 2 2		2.5	124.6	0.11	0.0	652	0.01	104.2							,	812
SPF-06 r18	199	<114.739	0.01	<0.002	<0.002	<0.001	3080	<0.004	1.3		1.559	37.1	0.01	0.0	1333	0.03	117.2					_		-,	036
SPF-06_r19	129	<122.035	0.29	0.02	0.02	0.0	6539	<0.004	12.4		2.2	202.2	0.12	0.4	298	0.03	97.3			57.81 25				-,	589298
SPF-06_r2	178	<122.665	0.02	<0.002	<0.002	<0.001	3864	<0.004	9.8		1.683	•	<0.004	4.1	299	0.01	120.1				1918.3	0.1 0		272.6 589	589255
SPF-06_r20	22	<137.648	1.94	0.11	0.02	0.0	6002	60.0	21.5		10.0		1.13	0.2	220	0.16	93.7				2241.5	0.3 0		4,	590347
SPF-06_r21	83	<115.934	0.01	<0.002	<0.002	<0.001	5817	<0.004	5.3		<1.571		<0.004	0.0	478	<0.003	258.1				1875.4	0.0 <0.002	_	4,	99268
SPF-06_r22	349	<120.733	0.33	0.08	0.04	0.0	4137	90.0	2.5		26.5	137.6	0.18	6.0	459	0.02	139.5			•	4389.8	0.3 0	0.06		588284
SPF-06_r23	180	<114.092	1.50	0.14	0.09	0.0	5946	0.21	0.6		19.6	625.5	0.88	8.0	1355	0.21	82.4	71.30	1.30 5	57.46 17.	1725.4	0.7 0			012
SPF-06_r24	149	<119.161	0.88	0.05	0.02	0.0	6590	0.03	28.2	88.9	14.5	673.3	0.45	v v	<206.512	0.12	140.8				3963.8	0.2 0	0.03	380.5 587	587142
31-00-123	26 05 05	00-	0.02	0 0	5 6	9.5	0000	1 6	, ,	5.00	0 1	0. 0.	0.03		44750	5 6	30.7	0.03		•	2.116		•	, -	2 42
SPF-00_126	6 44	200	134	0.00	0.32	5.0	2993	0.90	- 4	·	55.5	549.0	0.73	9; C	14739	02.1	73.5		-	49.19 22.		0.0		., -	504356
SPF-06 r28	62	<120.866	15.	0.02	0.01	0:0	8101	0.04	28.4		8.99	266.0	0.73		<209.149	0.05	95.6	8.67						481.4 589	589385
SPF-06_r29	113	<121.992	0.65	0.05	0.03	0.0	7492	0.04	14.7	92.6	87.4	710.4	0.24	2.5 <	<211.052	0.02	87.4	59.55	,-	٠,	5673.2	0.2 0	_	4,	585376
SPF-06_r3	188	<115.948	1.13	0.16	0.11	0.0	4032	0.24	7.1	112.8	1.6	174.0	0.80	0.1	973	0.21	125.3	11.71	1.07		108.5	0.6 0	11 11	~	593654
SPF-06_r30	127	<126.196	12.13	0.59	0.28	0.1	4788	1.17	16.2	135.0	71.9	267.2	7.40	2.2	486	1.37	107.9	18.44	0.65 3		394.4	2.1 0	.23 25		1361
SPF-06_r4	29	<142.260	3.04	0.15	90:0	0.0	7199	0.24	21.9	90.5	13.5		1.79	4.1	<250.930	0.42	91.6	14.10	3.65 51		743.5	0.6 0	.06 34	4,	290887
SPF-06_r5	85	<130.837	0.04	<0.002	<0.002	0.0	2075	<0.005	1.2	•	<1.794	> 4.96	:0.004	0.0	25	<0.004	139.3	6.31	0.99	20.87 24	2419.7	0.1 0	.01	26.6 590	90564
	κ	*All elements are in ppm	ments :	are in	ppm.																				

Appendix C: Eastern Sunda arc rutile trace element chemistry (LA-ICP-MS)

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Analysis ID	¥	Ca	Ce	Dy	Er	Eu	Fe	РÐ	±	Mg Mn	u Nb	pN q	Pb	Si	Sm	Sn	Та	Th	, u	, ×	Υb	Zr	ij	
SPF-06_r6	29	<122.955	0.00	0.01	<0.002	<0.001	6452	<0.004	4.0	₹		114.8 0.0			0.00	157.8	21.25	0:30	67.49	0	0.1 0.			590772
SPF-06_r7	101	<116.224	2.94	0.24	0.13	0.0	8106	0.29	16.9		•		2.03 0.7	7 213	0.44	113.0	9.21	3.52	24.81	408.7	1.1 0.	0.15 25		591325
SPF-06_r8	96	<122.429	90:00	<0.002	<0.002	<0.001	11888	<0.004	20.4		•		.05 0.6		0.00	79.2	12.05	0:30			0.0	01 38	385.0 585	585526
SPF-06_r9	9845	<125.413	8.43	0.23	0.19	0. o	6065	0.48	24.0	93.4	17.6 59	591.4 4.	4.18 0.5	5 <220.342	0.61	88.7	32.42	7.16	62.54	2540.7	1.3	0.17 34		589237
UGUIZ184_F1	366.1	5771	3.82 81.95	0.40	0.22	0.1	90/	0.59 75.56	- o		., .	u			14.85	732.7	10.11	7.07		4				768
UG012184 r11	3475	<238.554	6.0	0.52	0.28	0.3	663	0.60	3.7			,	_	7 1014	0.74	675.6	21.74	8.59	2.61		2.6 0.	0.30	46.5 590	590627
UG012184_r12	8912	<294.391	3.61	0.43	0.22	0.0	435	0.41	3.6		.,		.,	-	0.41	412.6	14.01	9.41						565061
UG012184_r13	3610	<231.115	41.78	7.15	3.79	1.7	361	7.91	3.0		25.8 31				7.15	4.4	96.98	5.92						385638
UG012184_r14	5122	929	107.93	13.13	7.25	4.0	953	15.20			•	,-	.31 34.1		17.87	133.3	3.07	11.44				5.78 2		585630
UG012184_r15	5901	<239.225	28.99	5.01	2.63	1.0	781	4.44			.,				3.69	435.4	13.22	4.94	2.89					197
UG012184_r16	1054	<281.634	3.32	0.79	0.41	0.1	793	0.88	8.4				_	_	0.69	188.6	9.37	3.65	1.16		4.7 0.			890
UG012184_r17	2896	<208.333	1.31	0.30	0.10	0.0	1302	0.28	3.3					5 1585	0.10	104.7	6.35	1.75	0.68					591502
UG012184_r18	4655	<260.824	50.94	8.39	4.61	4.1	521	8.34	3.2	77.2					7.45	208.1	9.13	13.60	5.47					589202
UG012184_r19	4933	143	85.56	10.50	6.35	1.7	632	11.01	5.6			•	•		10.38	402.1	12.70	11.99	10.58					589665
UG012184_r2	4558	455	109.62	19.65	11.34	3.4	856	20.89	9.3						19.24	501.3	9.35	27.02	6.81					153
UG012184_r20	12007	<235.072	28.51	4.31	2.48	1.2	352	4.67	<del>[</del> .					3 15976	4.69	64.7	12.23	6.22	4.54		19.9 2.			562251
UG012184_r21	2675	<250.118	1.29	0.24	0.21	0.0	786	0.33	2.3					3 962	0.33	448.9	10.29	3.38	3.50					592413
UG012184_r22	7252	414	25.34	4.52	2.19	0.8	631	4.76	10.2		•	•	_		4.31	396.2	3.03	3.69	3.66		19.6		-/	285900
UG012184_r23	2874	148	34.19	4.24	2.21	0.8	466	4.44	5.2			•			4.52	585.2	14.15	23.80	5.05					591641
UG012184_r24	4104	966	39.21	4.07	1.72	1.6	692	5.83	1.6			.,		3 1035	6.73	25.7	11.76	9.05	8.33					586650
UG012184_r25	1600	<128.998	0.25	0.03	0.05	0.1	720	0.17	6.1	85.1			0.40 2.4		0.12	50.9	4.40	3.69	0.92		0.2 0.07			594277
UG012184_r26	4633	270	10.02	1.29	0.79	0.3	295	1.06	17.3						1.14	320.2	8.29	80.9	3.14					590428
UG012184_r27	7377	<112.732	28.14	3.72	2.20	6.0	323	4.46	2.2				17.16 4.6		4.16	43.6	13.58	4.28	8.29					576340
UG012184_r28	3242	<112.883	10.86	2.47	121	0.3	512	2.55	6.3						2.84	251.5	12.43	17.41	2.33					589954
UG012184_r3	5148	<107.326	17.45	3.09	1.95	0.7	467	2.68	3.4		•				2.45	312.1	3.28	9.61	1.76					784
UG012184_r4	784	282	15.55	2.39	1.49	4.0	1415	2.29	3.0	81.6 <3					2.83	307.8	4.19	2.33	4.10		10.8 1.	1.00	-,	594161
UG012184_r5	4952	118	40.46	2.67	2.95	6.	519	6.74	2.4		eo	385.4 25.21	.21 10.7		6.54	51.2	18.45	16.26	7.40					582686
UG012184_r6	10366	<222.725	0.03	40.00v	0.01	<0.002	342	0.03	9.6						<0.008	97.1	0.41	0.89	2.87		0.1 <0.005			584466
UG012184_r7	3022	212	42.29	7.15	3.84	1.7	326	7.78	15.4		•				7.54	57.0	86.6	19.32	7.70					613
UG012184_r8	4661	215	47.46	40.7	4.12	2.5	357	8.29	ć. ź	82.4		357.0 30.48		2987	8.21	29.4	12.35	8.96	6.28	38.3	33.3 3.		34.9 584	584876
0.0012104_19	2147	204:020	23.23	3.6	0.50 1.30	. c	3655	0.03	7 87				16.10 16.3		3.40	147.4	35.00	6.80	8.00			0.03		579055 588463
UG012186_r10	874	<106 425	18 23	174	0.86	0.0	4408	2.58	26.4	2.98		•			3.36	190.5	88.9	1 2	7.40					591475
UG012186_r11	3315	<121.251	26.82	2.27	0.95	, <u>t</u>	2539	3.37	19.7			352.3 17.6	6.8 89.		4.30	255.6	14.22	24.61	1.54			0.85	,	586440
UG012186_r12	933	<186.709	3.21	0.31	0.38	0.2	2921	0.67	12.6				1.89 27.9	996 6	0.48	180.9	11.52	3.55	5.35		2.4 0.		117.4 591	591897
UG012186_r13	1596	<134.025	4.65	1.64	1.36	0.3	2927	0.54	11.5		•		.36 120.5	5 3149	0.39	135.6	8.46	3.38	5.06				٠,	588259
UG012186_r14	6205	274	82.32	10.36	5.54	1.3	4056	11.08	25.1		.,	•			11.07	175.3	15.10	7.41	7.92					582990
UG012186_r15	235	<316.597	7.58	0.91	0.39	0.2	3243	0.83	22.3		.,	292.0 3.9		•	0.77	129.4	10.19	2.93	4.69		3.7 0.			593476
UG012186_r16	582	<135.127	5.16	0.45	0.23	0.2	3396	0.52	25.2	_	•		.42 0.4	<254.	0.50	161.2	14.30	1.60	5.16				_	054
UG012186_r17	3064	<128.230	72.74	9.18	4.74	1.6	2445	10.38	15.1	_	12.3 33	•	45.55 22.8		10.90	330.1	12.24	26.55	23.03	656.6 3	38.9 3.			588914
UG012186_r18	10428	<138.242	3.09	0.15	0.13	0.1	3207	0.21	17.9	v 				3 15395	0.38	168.2	9.49	7.25	5.14		_		_	563267
UG012186_r19	1957	224	109.97	14.68	7.85	1.7	4127	15.62	18.6		41.2 26	_	54.08 8.1		15.80	154.2	6.71	5.47	8.32		63.4 6.		٠,	589453
UG012186_r2	1265	<103.653	1.02	0.24	0.17	0.1	3745	0.20	12.0					_	0.27	118.3	2.97	3.16	3.55		_		-/	591244
UG012186_r20	1726	<120.438	26.80	2.29	1.02	0.8	2546	3.19	13.0	0 1				_	4.08	353.5	18.1	25.31	9.67					589773
UG012186_r21	2755	277	164.19	24.61	13.36	3.0	3428	24.22	20.2		.,	-		888	23.51	238.2	13.10	11.98	10.30	· ·	•	_		588550
UG012186_r22	888	<112.484	32.66	5.02	2.25	1.0	47.76	6.09	24.8	7.18	., ,	•	21.61 3.6	3 379	5.96	160.8	7.09	2.34	6.27	164.7 2	20.9			92219
UG012186_r23	2472	<107.834	11.15	0.49	0.25	7.0	3824	0.65	23.6	N 6		298.3 4.5	.53 8.5	1044	0.94	747.4	37.20	3.97	4. o	•	1.8 0.17	•		289.267
05012106_124	607	<109.016	4.0	00.04	02.04	D C	74.50	4: 4	0.04		0.21	7.40	3.0 0.7	430	0.00	0.77	0.70	9 6	0.00	80.9		-		000160
2 200 7 000	630 *	*All elements are in nam	ente ar	יים יים. פיים פיים	77.0	5.	2	<u>.</u>	7.07	_		02		0	00:1	0.027	70.70	5	0.20	0.00	0.7		•	200
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Appendix C: Eastern Sunda arc rutile trace element chemistry (LA-ICP-MS)

Analysis ID	۵	5	8	2	ı L	ā	ų.	3	ĭ	2	2	2	ra Pu	Ü	£	Ş	, <u>c</u>	£	=	*	>	ş		F
110042486	0000	000 000	20.00	2 47		4	2200	0 2 0	° °	١,		0	١,	,	0200				4			104	0440	100000
UG012186_F4	513	<200.290	28.51	0.33	0.24	0.0	2962	3.52	24.4	173.4	11.0	315.5	155 23			0.42 24	241.0 9.21	16 6.54	6.30	287.0	ā ←	1.04 41.0	376.6	591678
UG012186_r6	2810	<112.687	29.39	3.92	2.26	0.8	3616	4.20	21.4	88.4		•		52.8	_		•			155.5	21.1	2.26	374.7	588610
UG012186_r7	991	220	109.88	10.71	3.43	3.3	4009	16.19	21.6	87.1					_	.,			-	390.6	33.1	2.38	522.7	590525
UG012186_r8	950	<124.834	7.71	0.52	0.40	0.4	4140	0.97	17.5	379.2	73.8	426.5		4.5		1.59 43	436.5 10.43	12.82		617.8	2.3	0.23	366.6	589403
UG012186_r9	947	<143.428	10.64	0.94	0.47	0.4	3542	1.22	17.6	88.8	8.7	227.6	6.42	5.7		1.60 15	155.1 6.93	3.57	5.29	115.2	4.1	0.29	368.0	592538
UG012190_r1	420	<129.127	0.09	0.01	0.02	0.0	5189	<0.004	12.9	80.3	_		0.09	6:						451.4	0.1	0.01	342.8	590223
UG012190_r10	1345	<149.372	1.40	0.11	0.07	0.0	8197	0.10	10.3	261.0			0.73	.5		,	_			579.1	9.0	0.08	236.4	588902
UG012190_r11	127	<106.682	0.07	0.02	<0.001	0.0	7565	0.00	13.9	86.5			0.05	4:						225.9	0.0	<0.002	329.8	590275
UG012190_r12	252	<107.516	0.54	0.12	0.04	0.0	5913	0.18	16.6	79.5			0.43	.4 <208.502			(*)			694.2	0.7	60.0	437.2	209069
UG012190_r13	621	<106.583	0.32	0.14	0.05	0.0	4588	0.09	8.4	86.9			0.35	.4 <206.544						751.2	0.3	0.07	220.9	591914
UG012190_r14	227	<106.243	1.07	0.12	0.04	0.0	6197	0.10	10.0	93.9			0.43	.7						235.9	0.5	0.04	280.1	592546
UG012190_r15	285	<107.755	0.08	0.02	0.01	0.0	6033	<0.003	17.4	86.9	8.0			0.1 <208.511					3.43	395.0	0.1	0.01	416.0	591690
UG012190_r16	374	<106.608	0.34	0.02	0.04	0.0	4757	0.05	7.4	86.8	_		0.27	. 2						602.9	0.2	0.01	153.2	591112
UG012190_r17	575	<106.386	0.24	0.02	0.03	0.0	5813	0.02	10.1	83.2			0.10			0.05 16	166.8 21.99			285.0	0.2	0.01	274.5	591111
UG012190_r18	261	<103.533	0.07	0.01	0.00	0.0	6249	0.02	4.2	80.8	_		0.06	6.						258.8	0.1	0.01	131.9	589821
UG012190_r19	253	<108.604	0.08	0.04	0.03	<0.001	5342	0.04	9.2	80.5	30.0		0.06	.5			231.1 22.15			583.8	0.2	0.04	247.9	591306
UG012190_r2	264	<107.785	1.22	0.11	0.04	0.1	5992	0.20	13.4	78.1	12.9		0.66	. 2			172.2 28.45			348.1	0.7	0.03	327.3	589739
UG012190_r20	611	<103.265	0.08	0.01	<0.001	0.0	5144	0.02	18.5	83.2	3.8		0.07	2.0	903 <0.		192.4 30.72			413.2	0.1	0.01	446.8	591523
UG012190_r21	5705	<128.318	0.38	0.01	0.02	0.0	4351	90.0	11.8	88.8	9.6	1118.7	0.17 10	10.5	6537 0		231.8 11.21			781.7	0.1	0.04	248.0	578292
UG012190_r22	190	<107.292	0.68	0.07	0.04	0.0	6627	0.08	19.9	85.2	21.8 2	2891.2	0.34	0.5		0.06 23	235.7 73.35			418.9	9.0	0.05	421.4	589624
UG012190_r23	512	<135.206	0.18	0.01	<0.002	<0.001	6847	0.04	20.8	6.08			0.09	2.0 <259.503			211.6 71.36	36 5.21		572.6	0.0	0.01	410.4	585530
UG012190_r24	329	<108.984	0.29	0.02	0.04	0.0	4812	0.04	6.5	83.3			0.11 2	2.0 <209.022			375.0 4.34	1.82		420.6	0.2	0.02	150.8	593553
UG012190_r25	674	<108.315	0.13	0.02	<0.001	<0.001	3998	0.01	7.3	108.6		638.9	0.09	0.3	671 0		192.7 35.58	58 2.40		145.0	0.1	<0.002	175.7	592876
UG012190_r26	316	<111.016	0.05	00:00	0.00	<0.001	5882	0.00	7.5	93.0	33.5 14				V					506.5	0.1	0.01	157.3	590377
UG012190_r27	246	<199.255	1.00	0.12	0.02	0.0	5627	0.18	7.3	78.5										413.4	6.0	0.02	190.3	591941
UG012190_r28	382	<134.714	0.15	0.01	0.02	0.0	0009	0.01	10.4	79.5										575.2	0.1	0.02	242.5	290998
UG012190_r29	761	<117.593	0.35	0.07	0.04	0.0	4162	0.11	14.1	8.96	_			<22						359.9	0.4	0.13	369.1	592139
UG012190_r3	255	<103.797	0.02	0.00	<0.001	0.0	7131	<0.003	15.5	79.7									_	9.099	0.0	<0.002	436.5	590410
UG012190_r30	494	<110.528	0.07	0.03	0.00	0.0	5461	<0.003	13.8	8.96										253.5	0.1	<0.002	343.2	591550
UG012190_r31	770	<114.178	0.88	0.05	0.04	0.0	4053	0.11	11.4	7.76										895.9	0.3	0.01	263.9	591821
UG012190_r32	<del>1</del> 25	<107.838	0.07	0.01	0.01	<0.001	6312	0.01	7.8	80.3				<20						552.9	0.1	<0.002	196.3	590552
UG012190_r4	299	<99.995	0.18	0.03	0.00	<0.001	2930	0.02	10.7	135.8							307.2 7.92			994.9	0.1	<0.002	267.4	590404
UG012190_r5	171	<103.943	0.17	0.03	0.01	0.0	6182	0.02	9.3	86.1				9.0					2.39	410.9	0.2	0.02	206.8	591132
UG012190_r6	269	<109.130	0.31	0.05	0.03	0.0	4964	0.03	8.9			_		3.4						418.9	0.2	0.03	158.7	591155
UG012190_r7	531	<108.114	0.41	0.04	0.00	0.0	5869	0.05	10.3					5.4		0.05 69	698.5 27.81		9.57	2593.2	0.2	0.01	208.9	588755
UG012190_r8	505 4 84	<105.833	40.0	0.0	100.00 0 0	100.00	5310	0.01	. 6 . 7	2.08	16.7	1321.8	0.00	). v	319 <u.< th=""><th></th><th>191.2 31.52 464.1 52.32</th><th>70.0 20</th><th></th><th>760.3</th><th>0.0</th><th>10.0</th><th>254.0</th><th>589429</th></u.<>		191.2 31.52 464.1 52.32	70.0 20		760.3	0.0	10.0	254.0	589429
110012103 11	853	7151 500	285	27.0	8 6	5 5	3830	2 6	100		١.									2 20	5 6	200	274.4	580187
UG012193_11	514	<209.343	0.97	0.07	0.05		4034	0.17	19.4											287.1	t 60	0.05	169.7	590588
UG012193 r11	2830	<149.240	31.67	1.37	0.42	0.5	3242	2.93	18.6	91.9		Υ_							_	219.4	5.4	0.27	519.6	577430
UG012193_r12	623	179	1.23	0.15	0.09	0.1	3777	0.22	12.2	> 9.06			•							109.8	8.0	90.0	294.7	585757
UG012193_r13	275	<155.176	3.39	0.12	0.07	0.1	3951	0.37	12.3	83.9	4.6	235.4		0.3	1163 0	8.0	80.2 4.17	1.56		398.8	0.3	0.01	234.6	590490
UG012193_r14	2267	161	4.77	0.20	0.09	0.1	3161	0.39	12.4	85.6				_						151.4	8.0	0.01	286.0	581952
UG012193_r15	4088	1002	14.35	0.51	0.19	0.4	4712	1.30	15.5		_	_	•	12.7						17.1	2.2	0.12	389.2	578240
UG012193_r16	3407	<234.062	8.30	0.15	0.07	0.1	4153	69.0	14.4		_	168.4	3.12	e. ح						185.6	0.7	0.05	319.6	578357
UG012193_r17	19335	285	5.85	0.25	0.10	0.2	4184	0.51	14.5	110.5		216.1	3.52	9.	37508		37.3 3.95	•		1242.4	0.8	0.04	279.1	522392
UG012193_r18	942	129	1.75	0.36	0.29	0.0	3134	0.28	22.9			213.2	1.10	. 2		0.21 12	128.0 6.4	1.48	2.89	525.8	2.0	0.39	692.1	587624
UG012193_r2	2274	256	90'9	0.50	0.18	0.3	3830	0.97	4.8			218.2	2.52 4	<u>-</u>		_	9		6.76	297.8	£.	0.16	234.1	581889
UG012193_r3	2552	<218.386	0.81	0.11	0.07	0.0	4985	0.14	21.3	102.2	15.0	177.2	0.48	ω.	8727 (	0.06	99.2 5.4	54 1.39	6.38	152.7	8.0	90.0	779.0	578284
	* *	*All elements are in ppm.	ents ar	e in p	pm.																			

Appendix C: Eastern Sunda arc rutile trace element chemistry (LA-ICP-MS)

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Analysis ID	Ι¥	Ca	Ce	á	й	Eu	Fe	P5	±	Mg	Mn	PN qN	q. P	is	Sm	n Sn	Ta	£	_	*	<b>\</b>	γp	Zr	F
UG012193_r4	1794	228	15.24	1.08	0.29	0.4	10067	0.85	32.7	114.2	19.8	179.2	5.76	0.0	3481	1.00		5.01 2.				0.34	1123.5	581043
UG012193_r5	2009	<153.127	7.40	0.20	0.08	0.1	3704	0.36	12.7	84.8	4.7	209.1	2.66	1.5		0.47 10	102.9 4.	.98 3.					282.5	574250
UG012193_r6	6148	432	5.09	0.15	0.02	0.1	2600	0.35	13.8	92.0	<2.371	231.4	2.07	4.0	7866	0.58	93.1 4.	.87 2.			.8 0.5		302.7	573601
UG012193_r7	422	<132.950	5.53	2.73	2.35	0.3	4085	1.48	20.9	82.4	<1.877	134.9		2.8	1647	~ .	129.2 4.	.85 0.75	.75 9.20	20 225.3		2.28	617.2	589491
UG012193_r8	432	199	3.09	0.28	0.16	0.2	4008	0.43	2 4 2		<2.057		2.61	1.7		0.57		5.02 2.0				0.12	304.4	589204
UGUIZ193_19	125	×112.403	00	50.05	0. 0	0.0	1340	0.03	υ ή 4. υ	90.7	7.00	200.2		5. 0 C		_	73				0.7	0.02	2.11.5	27,20,00
UG012195_r10	854	<122.045	0.20	0.06	0.04	0.0	1241	0.03	24.5	83.1	<1.724	434.5		0.2		- 10						0.00	383.3	594679
UG012195 r11	1727	556	74.22	9.62	7.06	2.8	536	10.24	26.0	120.1	74.8		- 10	7.5		9.17 6		. –	.62 5.56	56 2026.3		6.58	408.2	586907
UG012195_r12	1799	<258.274	3.46	1.25	0.73	0.2	1383	1.01	2.99	99.3	50.2		~	14.4				**			9.7 4.6	0.70	847.9	590858
UG012195_r13	2345	<238.263	0.03	<0.004	<0.003	0.0	213	<0.007	1.1	75.3	<3.496	·	-	·		0.04		_				0.01	157.7	594296
UG012195_r14	2667	162	0.29	0.15	0.03	0.0	1003	0.19	18.6	83.7	<2.067		_	18.3				~				0.03	261.3	588324
UG012195_r15	1313	<255.913	0.04	<0.005	<0.004	0.0	223	90.0	15.4	78.4	<3.751		0.14	0.0 <50	_	٥.		_	.47 0.10		0.0	<0.006	269.7	596118
UG012195_r2	435	<598.904	0.33	0.05	<0.008	<0.005	2241	<0.016	2.09	88.0	13.4		0.015	7.3		_		4.74 0.				<0.013	732.6	592833
UG012195_r3	2100	<234.342	7.27	1.26	0.82	0.2	269	1.01	9.85	81.2	9.3		_	1.3		<b>6</b>		~					892.4	592557
UG012195_r4	4294	<247.001	0.34	0.14	0.04	0.0	624	0.05	17.0	77.5	9.8	_	01	<b>~</b>			•	~		73 11.5	.5 0.5		239.2	581391
UG012195_r5	110	<238.109	<0.002	<0.004	<0.003	<0.002	1142	0.01	29.6	76.7	7.0		0		_	_		٠					372.1	296957
UG012195_r6	4243	<128.991	0.49	0.05	0.03	0.0	1446	60.0	16.0	86.5	<1.816	_		7.4		0.12 50		~	.56 0.93				231.4	581222
UG012195_r7	2243	<115.738	0.58	0.12	0.04	0.0	126	0.10	25.4	83.9	<1.629		0.34	0.5	309								396.3	594443
UG012195_r8	2757	22.5	25.23	3.00	1.67	0.8	5123	2.63	23.2		75.7			37.1		_		_					406.7	280877
UG012195_r9	129	<163.509	0.14	0.01	0.18	0.0	1100	0.05	73.9		<2.301			16.0	_								2595.3	592513
UG012197_r1	927	691	3.21	0.07	<0.004	0.2	2947	0.08	5.2	80.3	41.9			35.7				~					128.1	592152
UG012197_r10	342	233	10.74	0.78	0.50	0.5	8473	0.82	27.5	144.8	27.2			7.4	1486	_							486.6	588732
UG012197_r2	5424	238	65.12	5.31	3.66	3.2	12996	5.76	3.9	2122.8	545.7			25.9		5.32		_		_			74.2	269360
UG012197_r3	319	<137.778	27.45	2.23	1.4.1	1.2	6209	2.19	5.6	200.7	42.4		_	8.4		_							95.2	592651
UG012197_r4	332	<225.659	20.73	1.46	0.75	0.8	5849	1.16	6.4	82.8	47.5		_	7.6	1634			27.53 8.				0.98	115.3	591006
UG012197_r5	116	<232.956	0.24	0.01	0.05	0.0	6847	<0.006	32.9	76.6	13.7		_	0.7									751.4	587453
UG012197_r6	220	<134.388 <228.087	18.66	7.43	0.68	). V	5110	1.40	4. C	87.5	30.0	653.0	16.87	5.9	976	3.63	322.8 29.	29.63 2.03		20 196.0	0.0		5.12	591868
UG012197_r8	121	<215.442	0.17	<0.004	00:0	0.0	6866	<0.006	25.3		<3.208			. ~				_					472.7	588266
UG012197 r9	413	<218.802	8.41	1.01	0.50	0.3	6560	0.67	21.8		10.3			. ++									545.3	590519
UG012198_r1	21804	<127.930	0.88	0.14	0.10	0.1	4415	0.12	24.9	311.4	52.6	2	0.52	4.2				23.08 6.78				0.08	337.1	536850
UG012198_r10	310	<121.187	0.58	0.02	0.02	0.0	4300	0.17	17.8	0.06	82.7		0.23	3.4									219.9	590643
UG012198_r11	609	<118.810	0.70	0.31	0.30	0.1	4657	0.39	21.2	114.5	51.4		0.63	2.8			•	2					361.0	22062
UG012198_r12	245	<105.807	0.02	<0.002	<0.002	<0.001	4331	0.02	24.6	97.4	2.1	-	<0.003	0.1								<0.002	6.029	592118
UG012198_r13	1877	<143.992	0.11	0.02	<0.002	<0.001	5110	<0.005	38.8	7.76	8.0		0.10	8.	_		•				1.5 0.1	0.01	664.5	287608
UG012198_r14	1713	<117.671	0.10	0.00	0.03	<0.001	4991	0.02	14.0	118.4	19.0	397.1	0.03	4. (	1605 <0	<0.004 22	228.3 11.	11.25 2.09			7.4	0.01	192.2	589313
UG012198_r15	729	178	9.00	81.0 0.00	41.0	- 0	4131	0.20	17.3	93.7	63.286	226.5	0.49	5. T			•		34 0.22	760.7	0.1 0.1	0.13 <0.005	309.2	590569
UG012198 r17	1347	<113.216	0.22	0.01	<0.002	0.0	4854	<0.004	40.1	95.2	16.1	412.1	0.15	1.4	v		306.8 16.				1.5 0.1	0.01	730.7	200005
UG012198_r18	3214	157	0.22	0.02	0.03	0.0	3519	90.0	24.8	141.6	17.9	170.9	0.14	4.2		_		8.53 2.67				0.04	466.9	559636
UG012198_r19	7176	205	12.37	158.99	136.05	18.3	4379	78.14	1411.5	85.9	<2.481	.,	22.45	7.7	35706 2	24.48 32	_				.9 1294.0	167.60	76087.3	475820
UG012198_r2	1368	<116.187	0.57	0.11	90.0	0.0	4379	0.04	38.8	104.8	14.4	458.6	0.33	1.5				_				0.00	387.6	587100
UG012198_r20	1277	<112.445	0.21	0.04	0.00	0.0	5850	0.04	42.6	189.5	11.6	485.9	60.0	0.5		0.01 23	`					0.03	662.1	589206
UG012198_r21	482	<114.893	1.49	0.03	0.02	0.0	5893	0.05	0.6	89.2	19.7	165.5	0.46	2.1 <2	10.101	0.08	•			•		0.05	134.4	589481
UG012198_r22	638	<118.560	0.14	<0.002	<0.002	0.0	4626	<0.004	26.6	0.96	6.4	126.3	0.05	4.0	330	0.04 4	_	6.30 1.	1.66 25.4		.4 0.1	0.01	613.8	591924
UG012198_r23	412	<115.081	0.38	1.56	2.18	0.1	3531	0.50	51.7	100.5	10.6	453.1	0.35	2.1	238	0.19		.74 4.	.11 10.8		_	4.02	651.3	591695
UG012198_r24	1266	<110.966	0.19	<0.002	0.03	0.0	5805	0.01	45.0	132.6	0.99	376.7	0.05	7.1	981	0.01	_	26.08 0.	.69 10.96		4 0.2	0.03	547.4	590033
UG012198_r25	573	<107.474	0.12	<0.002	0.00	0.0	5462	<0.003	10.1	88.4	25.9	271.7	0.08	3.3	302	0.01			0.48 6.2	28 1415.9	0.1	0.01	131.1	591019
UG012198_r26	2 2	<132.150	3.06	0.43	0.81	0.1	4539	0.31	39.5	154.2	22.7	613.1	1.83	2.5	466	0.19	206.2 19.	19.56 12.	.51 15.	78 521	.3	1.67	432.3	280082
	•	*All elements are in ppm	ments	are in	ppm.																			

Appendix C: Eastern Sunda arc rutile trace element chemistry (LA-ICP-MS)

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Analysis ID	₹	Ca	င္မ	Dy	ம்	n n	Fe	рg	ጟ	Mg Mn	Q L	N	P <sub>D</sub>	Ö	Sm	S	Та	۲ ۲	n	>	<b>\</b>	YbZr	Ε -	
UG012198_r27	2187	529	8.93	0.23	0.37	0.0	3759	0.28	20.4	961.9	7.6		1.20 48.		0 0.18	141.4	6.87	2.32	3.20	148.8	2.3	0.40 36		578014
UG012198_r28	1507	<126.641	0.23	0.01	<0.002	0.0	6841	<0.004	24.4	100.5	5.0 2			98.8 3503		491.9	10.54	2.89	10.29	1228.4	0.1	0.02		582520
UG012198_r29	1281	<120.404	0.44	0.04	0.03	<0.001	5138	0.01	7.7	91.0		173.7 0	60.0			325.2	14.67	6.61	6.07	2075.3	0.2	•		586355
UG012198_r3	1811	<1113.715	0.67	0.04	0.01	0.0	4310	0.01	13.3	123.2				_		457.0	56.11	7.66	3.85	1107.0	0.2			585979
UG012198_r30	3166	<126.784	1.00	0.31	0.48	0.0	4048	0.24	29.1	139.6						184.6	26.85	6.52	9.58	376.2	2.8			583191
UG012198_r4	3052	106	0.40	0.18	0.22	0.0	3959	60.0	16.9	206.4			.,	4		356.6	19.83	2.03	2.62	1409.0	1.6			582241
UG012198_r5	328	<106.685	0.13	0.01	0.00	0.0	6167	0.01	27.0	89.9						393.9	8.86	1.75	25.19	534.8	0.1			589864
UG012198_r6	286	<111.400	0.12	0.01	0.01	0.0	4489	×0.004	10.7	88.2				_	V	578.7	20.77	2.44	4.52	1833.9	0.1			589293
UG012198_r7	1486	<146.979	0.35	0.10	0.15	0.0	3828	0.07	27.4	133.5				_		359.4	14.75	4.01	12.18	619.4	<del>-</del>			587458
UG012198_r8	096	275	27.58	4.87	3.32	1.3	4948	4.70	30.0	127.0				5.1 1820		525.1	14.85	17.69	11.57	2627.6	25.3			586480
UG012198_r9	422	<111.877	0.59	90:0	90.0	0.0	6194	0.05	16.2							337.7	20.73	3.98	13.33	2317.9				588636
BHF-01 r1	112	<100.078	0.02	<0.002	<0.002	<0.001	4811	0.01	10.7	•		340.2 <0.005			900:0> 6	90.7	9.58	0.22	15.28	2248.2				586871
BHF-01 r4	192	<76.927	0.01	0.00	<0.002	<0.001	5163	00.00	15.1	81.2			0.5			114.1	16.94	0.26	10.37	2419.2		<0.002 33		96998
BHF-01 r5	96	<77.737	00.00	0.00	<0.002	<0.001	4656	0.00	10.7			V		03 549	V	7.76	36.86	90.0	9.13	1110.4	0.1			586752
BHF-01 r6	112	<90.679	0.01	0.00	0.00	<0.001	5726	<0.003	16.3							89.3	3.62	0.13	14.17	4080.8				585217
BHF-01 r8	09	<146.590	<0.001	<0.003	<0.003	<0.002	2002	0.03	16.0	83.7 <	<2.649 2	V				102.1	17.62	0.16	13.59	2568.8	0.0	0.02		586921
BHF-01 r11	8	<84.322	0.01	<0.002	0.01	<0.001	5369	<0.003	11.3							85.4	14.02	0.20	11.55	1824.7	0.1			586403
BHF-01 r12	28	96	00.00	<0.002	<0.002	<0.001	2208	<0.003	19.6				0		V	107.3	29.50	0.00	9.23	1627.4	0.0	•		587421
BHF-01 r13	92	<86.650	0.01	<0.002	<0.002	<0.001	4350	<0.003	7.7						1 0.01	118.2	4.18	0.32	7.75	938.4	0.0			588074
BHF-01 r14	82	<134.568	0.00	<0.003	<0.002	<0.001	4390	<0.005	8.8					0.0		97.6	17.07	0.11	12.28	2953.2	0.1	<0.003 18		586756
BHF-01 r15	40	<286.517	<0.003	<0.006	<0.005	<0.003	4424	<0.010	13.8		<4.740 11	1147.8 <0.011	111 <0.011	11 <613.870	0 <0.012	119.2	34.29	0.14	15.67	2619.0	0.0		279.2 58	586871
BHF-01 r16	73	<88.760	0.00	<0.002	<0.002	<0.001	6954	<0.003	17.9			102.4 <0.004		03 310	0 <0.004	194.4	17.09	00:00	17.21	5948.8	0.0			584498
BHF-01 r17	378	<120.081	0.01	<0.002	0.01	<0.001	8117	<0.004	8.9						V	191.7	17.15	0.26	8.34	3450.7	0.0			586127
BHF-01 r18	173	<94.652	00.00	<0.002	0.01	<0.001	4402	0.00	7.8					04 <199.701		103.6	28.76	0.20	6.63	1392.3	0.0			589458
BHF-01 r19	245	<95.209	00.00	<0.002	<0.002	<0.001	4769	<0.003	13.2	83.6 <	<1.547 2			04 <200.054		104.1	6.01	0.24	12.29	3034.4	0.0			586292
BHF-01 r20	123	<92.966	<0.001	<0.002	<0.002	<0.001	5167	0.00	14.8					× 194	·	80.8	16.92	0.05	13.49	2488.1	0.0	.,		587538
BHF-01 r21	182	<177.687	0.05	<0.004	<0.003	<0.002	5661	<0.006	1.8			174.3 0	0.03			143.7	5.56	1.61	7.16	1887.4	0.1			588694
BHF-01 r22	127	<229.716	0.03	<0.005	<0.004	<0.003	4681	<0.008	6.6					0.1 724		133.3	18.44	1.13	10.67	1913.1	0.1	·		37237
BHF-01 r23	93	<129.392	00.00	<0.003	0.01	<0.001	4536	0.02	6.7							92.6	3.39	0.21	11.05	1913.2	0.0	·		588086
BHF-01 r24	98	<97.576	<0.001	0.01	<0.002	<0.001	4979	<0.003	15.4			63.1 <0.004				64.0	5.60	0.02	11.56	1190.0	0.0	<0.002 50		588911
BHF-01 r25	171	<94.588	00:00	<0.002	<0.002	0.0	5269	0.01	8.7							85.7	8.24	0.03	10.65	1501.8	0.0			38433
BHF-01 r26	28	<93.891	<0.001	<0.002	<0.002	0.0	6863	<0.003	13.3			V	0.0			65.6	5.31	0.04	10.73	1643.7	0.0			588218
BHF-01 r27	150	<95.531	0.0	<0.002	<0.002	<0.001	9029	0.01	13.9				0.05		v	121.1	24.86	1.49	8.87	1656.8	0.0	•		588625
BHF-01 r28	138	<100.970	90.0	<0.002	0.00	<0.001	5003	0.01	9.2	> 0.06	<1.580 2					198.0	18.65	1.70	7.11	2613.3	0.1	<0.003 16		587779
BHF-01 r29	170	<113.138	<0.001	<0.002	0.00	<0.001	44 10	×0.004	9.8			149.1 0				96.3	2.52	0.19	10.62	1308.6	0.0		-,	589017
BHF-01 r30	160	<93.798	<0.001	<0.002	<0.002	<0.001	4959	<0.003	7.3	•		V		<188	V	128.4	4.26	0.07	6.57	1376.6	0.0	•		588386
BHF-01 r31	132	<129.682	0.52	0.07	60.0	0.0	5872	0.10	19.6					0.5 315		122.2	39.22	0.59	15.48	6549.2	0.4			581208
BHF-01 r32	73	<96.493	0.03	0.01	<0.002	0.0	6550	0.00	13.7							89.2	16.53	0.05	12.07	1375.7	0.1	0.02		39931
BHF-01 r33	Σ ;	<130.224	0.03	0.01	0.01	<0.001	5616	<0.005	80 0	•	· ·	,	0.02 <0.005		•	144.9	10.40	0.99	9.15	1601.1	0.0			589256
BHF-01 r34	45	<94.898	<0.001	<0.002	<0.002	<0.001	2882	<0.003	6.9							9.69	2.13	0.01	9.07	1594.6	0.0			288990
BHF-01 r35	118	494.364 01.15	0.00	<0.002	<0.002	0.0	4712	0.04	6.9		,	V	0			100.9	2.23	0.28	5.10	2035.8	0.0	<0.002 15		588665
BHF-01 130	293	430.73Z	0.00	×0.002	×0.002	00.00	4930	10.0	7.0.7	\$ 8 4 6 7 7	C1.480 Z	0 8.022	20.02	0.0 <190.558	8 ×0.004	20.00	0.39	0.10	44.0	4423.	- c		410.0	284921
BHF-01 r38	133	<124.819	<0.001	0.01	<0.002	<0.00	5120	0.01	20.0	·				٠		76.5	34.51	0.33	11.62	811.9	0.7	<0.003		588641
BHF-01 r39	131	<106.220	00.00	<0.002	<0.002	<0.001	4729	×0.004	6.9			V			V	145.2	26.58	0.22	10.18	2314.5	0.0			586911
BHF-01 r40	108	<100.814	90.0	<0.002	0.01	0.0	5642	<0.003	11.3							79.6	4.68	1.03	16.41	2195.3	0.0			587416
BHF-04 r2	20	<129.156	1.07	0.08	0.04	0.0	3643	0.09	5.1	92.3	0.9			0.6 1181	1 0.03	320.5	8.94	2.41	16.47	2268.9	0.3	0.11	55.4 58	589840
BHF-04 r3	87	<99.413	4.16	0.43	0.33	0.1	7617	0.43	11.7	89.5		287.9	1.96	0.1 874	4 0.42	142.8	32.95	3.43	7.22	267.0	2.0	0.36	62.7 59	591077
BHF-04 r4	226	148	116.72	10.88	6.57	1.8	7165	12.58	1.7	6.88		57.4 74	74.56	1.5 907	7 15.29	626.8	9.30	51.58	14.53	3502.8	55.8		-,	588286
BHF-04 r5	26	138	0.48	0.05	0.03	0.0	10679	0.03	1.7	104.1	140.7	53.0 0	.28	0.1 45	2 0.05	348.5	41.94	2.50	36.58	9026.6	0.2	0.02	5.0 58	583106
	*	*All elements are in ppm.	nents a	re in 1	mac																			
	1			-	<u> </u>																			

Appendix C: Eastern Sunda arc rutile trace element chemistry (LA-ICP-MS)

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Analysis ID	¥	Ca	Ce	Dy	Ęŗ	Eu	Fe	Gd F	Hf Mg	M	qΝ	PN	Pb	Si	Sm	Sn	Та	두	n	Μ	Υ	Λb	Zr	ı.
BHF-04 r6	88	<114.271	0.08	0.01	0.02	<0.001	9142	<0.004					0.04 0.2		<0.005	225.1		0.28	16.69	5915.2	0.1	0.01	219.0	586252
BHF-04 r8	192	<102.239	68.70	6.07	3.46	1.0	9385	7.59					47.48 1.7	437	9.46	720.4		36.39	23.21	8157.0	28.0	3.57	72.3	582914
BHF-04 r9	75	<121.046	17.70	1.52	1.25	0.3	4886	1.73	9.8				10.41 1.6	329		237.2		18.12	8.24	206	6.6	1.32	8.99	593327
BHF-04 r10	28	<133.241	9.23	0.47	0.15	0.1	6422	0.40					.21 0.	<259.283		463.0		6.45	2.87	101.8	1.6	0.23	34.1	592756
BHF-04 r11	23	<168.009	0.20	<0.003	<0.003	0.0	5828	<0.006		, 2			0.07 0.			158.5		0.77	11.51	705.0	0.1	0.01	160.0	592913
BHF-04 r12	78	<122.903	3.78	0.38	0.10	0.1	11336	0.36				~		<238.515		752.9		3.60	13.76	9723.7	<del>[</del>	0.14	87.3	581088
BHF-04 r13	115	<120.020	38.13	2.82	1.34	0.5	7236	3.83	2.2				25.08 0.1			542.1	3.63	21.74	19.83	2889.7	14.1	1.23	36.3	588236
BHF-04 r14	110	147	34.96	2.91	1.45	0.5	8290	3.41	4.6			~		218		688.5		28.30	13.06	2906.8	13.1	1.42	62.3	588420
BHF-04 r15	202	219	45.38	4.13	2.71	9.0	8716	4.87	5.1		44.1		.72 0.8			597.6			19.44	5102.2	22.8	3.72	49.4	586151
BHF-04 r16	208	<113.536	58.69	5.28	3.53	0.8	8386	6.20					_			484.9			24.00	5993.7	27.4	3.67	34.8	586151
BHF-04 r17	45	<185.536	0.15	<0.004	0.01	<0.002	6820	<0.006		80.8 <2.806					Ÿ	110.6			3.74	32.2	0.1	<0.005	47.6	592660
BHF-04 r18	78	<113.046	4.69	0.32	0.17	0.1	7740	0.58	10.4 10			_	2.57 1.9		0.46	195.3		3.25	9.02	1450.9	1.6	0.17	145.7	590563
BHF-04 r19	101	<124.457	7.90	0.58	0.46	0.1	9252	0.58						<236		360.3			18.32	7659.6	2.5	0.25	9'29	584719
BHF-04 r20	241	250	98.82	6.97	3.98	<del>[</del> -	6301	8.43		96.5 6	_		60.20 0.6	1359	11.55	343.2		7	9.70	447.4	36.4	4.52	30.9	590014
BHF-04 r21	82	<115.838	0.02	0.01	0.00	<0.001	7583	<0.004						_		132.7			6.43	453.1	0.1	00.00	73.1	590120
BHF-04 r22	147	<134.144	30.75	2.68	1.53	0.4	7470	3.33				260.4 19				455.2		27.71	13.34	1925.9	13.7	1.58	8.75	589293
JEM-02 r1	842	554	9.46	0.77	0.17	0.4	0089	1.28						3 2463	1.49	416.8			73.12	5491.1	3.0	0.21	275.9	582537
JEM-02 r1	23	<101.349	0.03	<0.002	<0.002	0.0	7053	<0.003	14.6						<0.004	673.5			85.09	4736.7	0.0	0.01	338.3	586898
PCT-01 r2	167	<145.971	6.64	0.77	0.32	0.0	3467	69.0		199.2 <2.153		4742.8 5	5.16 929.5	_	0.68	136.9		1.09	31.34	94.8	2.7	0.43	1853.8	584539
PCT-01 r4	158	<208.886	1.41	0.09	0.02	0.1	5237	0.22	5.9						0.11	97.8			12.86	34.2	0.5	0.07	137.7	592002
PCT-01 r5	189	<215.302	12.21	3.05	1.25	0.4	2449	4.34							3.34	1766.4			2.93	364.9	9.1	1.43	9.08	591944
PCT-01 r6	874	517	8.03	2.17	1.06	3.0	1873	1.53							1.44	4.1			9.00	3669.2	6.7	1.32	468.2	589546
PCT-01 r7	1843	641	13.44	12.34	23.10	4.1	1424		792.3 16	163.4 209.2				_	2.58	6.5			25.12	3799.2	145.0	50.85	40638.9	540259
PCT-01 r8	795	<253.157	15.08	2.89	1.39	0.5	2051								2.73	229.1			0.94	1042.1	12.4	1.00	493.4	592137
PCT-02 r1	212	1121	84.94	51.10	39.41	4.6	1740	27.98					60.51 101.0			30.7			42.81	24.8	234.4	52.43	1098.2	591732
PCT-02 r2	932	1560	118.88	56.86	38.24	7.7	3989	40.81			147.2 36	364.0 80	.11 90.2		27.90	8.9			30.75	128.3	256.2	42.10	645.4	588503
PCT-02 r3	1348	1569	126.74	47.84	32.62	7.0	31946	44.52	20.4							14.7			23.13	6.99	291.2	33.79	771.1	563834
PCT-02 r4	3187	782	107.91	38.86	25.55	6.4	3364	29.94				432.3 89				8.2			13.48	109.7	195.3	27.75	2006.4	581880
PCT-02 r5	1441	299	61.29	39.68	28.46	3.6	2099	24.60	30.9							12.9			20.34	51.0	198.9	29.09	963.3	589416
PCT-02 r6	1123	1137	61.48	8.36	5.83	2.5	2942	6.70	•							7.2			32.04	124.8	39.3	6.53	1167.1	588805
PCT-02 r7	630	943	59.21	9.75	7.38	2.4	2612	8.21								9.0			62.48	115.6	54.8	8.11	648.5	590126
PCT-02 r8	758	1173	145.82	41.96	39.03	3.5	2685	29.98								4.5			374.35	47.3	227.4	44.86	639.9	588886
PCT-02 r9	386	704	62.85	21.06	17.01	2.8	2605	13.02								20.2	14.54		20.37	20.7	104.5	23.83	778.3	591862
PCI-02 r10	02.7	950	123.50	12.30	89.6		3257	11.43	15.2 TC		147.1 35					5.7			/1.48	153.3	73.0	11.08	043.6	589484
PCT-02 r11	734	637	66.83	32.75	19.99	4.6	2633	25.23		150.3 11		389.9 54.22	7.22 69.7	2614	18.82	11.6		3.79	20.58	32.3	185.6	20.48	1193.0	590474
PCT-02 r13	777	1081	89.17	65.24	46.39	5.3	3823	50.32		,						20.3	16.08	4.06	93.09	48.0	331.2	51.48	747.5	589155
PCT-02 r14	463	918	75.58	8.00	6.43	2.8	3011	7.41								5.1		0.67	36.55	52.2	55.5	8.00	753.9	591932
PCT-02 r15	691	220	70.37	33.34	27.53	3.4	2433	20.95				400.1 51	.61 59.0		15.57	21.0		5.48	22.74	40.3	160.5	37.17	937.0	591143
PCT-02 r16	1100	169	90.32	40.76	30.90	4.0	26662	29.55			_				19.92	9.8		3.50	29.65	122.8	226.0	32.62	640.9	570580
PCT-02 r17	499	848	113.86	11.24	8.20	3.6	2425	10.64							9.53	6.1		0.70	52.32	71.5	72.1	9.29	620.9	592285
PCT-02 r19	604	892	69.30	10.43	7.39	2.4	2907	10.58					46.30 76.8		9.15	14.8		2.25	17.92	101.1	64.5	8.09	785.8	591389
PCT-02 r20	833	1084	115.21	37.44	27.01	5.9	2664	27.31							23.38	13.9		4.40	28.54	41.6	181.3	31.79	855.3	590315
PCT-02 r21	537	54143	259.82	81.38	48.91	9.4	2742	79.08							65.18	18.0	15.48	6.32	21.50	0.89	409.8	47.05	759.2	546269
PCT-02 r22	934	1251	84.78	23.28	13.54	6.3	2439	22.11							24.18	5.2		0.59	11.32	30.2	98.2	15.42	976.5	589555
PCT-02 r23	2224	1062	103.17	74.25	56.36	æ ·	3244	42.73	37.4 105			_			35.22	13.2		2.77	19.37	36.1	353.9	72.60	1160.4	583441
PCT-02 r24	726	896	106.25	18.05	13.75	4.	3105	12.85			N 1		53.86 87.7		12.66	10.7	•	2.54	65.91	121.3	84 E. 1	16.44	806.9	590175
PCT-02 r25	793	918	93.13	12.88	10.77	3.2	3552	12.01						2416	11.29	4.8	16.31	2.54	13.73	88.4	6.69	13.87	631.2	590289
PC1-02 r26	8/3	919	67.97	44.82	73.87	0.4	6194	35.99	76.5				56.92 86.0	7850	21.68	6.4	16.46	1.06	8.29	c.221	326.8	28.34	5.717	587173
PCT-02 r28	2245	824	69.49	46.84	31.94	5.3	2590	29.01	23.4 32	327.7 16	166.9 32	320.6 54	.19 88.8	5835	20.69	28.5	15.24	4.70	21.46	81.4	230.1	36.56	840.9	584489
	-	*All elements are in ppm	ments	are in	ppm.																			

Appendix C: Eastern Sunda arc rutile trace element chemistry (LA-ICP-MS)

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Analysis ID	A	ca	e S	'n	נֿ	n	Pe	B	-		-	_	<b>T</b>	,,	n	n	4	_	<b>-</b>	-		+	-	=
PCT-02 r29	214	629	47.51	23.98	17.50	2.2	3076	17.28	19.8							_	•		31.78	40.8	137.6	19.01		590826
PCT-02 r30	244	962	90.09	32.89	24.51	2.8	2882	24.37	15.3							_		3 0.79	29.79	49.2	196.1	27.97		290896
PCT-02 r31	1409	1231	101.76	33.62	22.43	6.3	3023	31.10	48.0	253.5									18.76	63.6	209.9	23.88		586223
PCI-02 r32	510	731	34.81	11.48	9.25	2.0	2002	11.51	21.2	92.1	107.3 3	329.1 2	57.42 5	50.8	1855 8 3500 35	8.12 11.0	3 16.10	2.10	17.50	15.2	82.9	11.45	970.2	592641
PCT-02 r34	326	1342	44 93	16.25	13.3	. <u>_</u>	2532	10.78	27.8						,		•		95.70	49.8	500	13.79		592676
PCT-02 r36	710	922	66.83	7.19	4.64	2.2	3169	6.41	17.5	135.1				54.3	2372 6	6.20 5.8	•		33.17	163.5	40.3	4.52		590390
SINA-02 r1	8188	1506	41.13	8.37	4.18	2.3	5376	7.00	11.8					_					14.46	103.3	28.5	4.96		564208
SINA-02 r3	3039	1029	25.81	5.50	3.40	0.7	954	3.93	1.1										3.60	141.1	20.2	4.83		584754
SINA-02 r4	2965	1795	18.13	3.75	2.69	0.5	1182	2.15	10.3			670.1							1.29	39.8	15.5	4.54		582278
SINA-02 r5	4387	1854	28.63	7.59	5.15	<del>-</del> -	786	5.52	20.6							5.20 24.7			15.38	63.4	26.1	8.20	528.6	576843
SINA-02 r6	2199	674	11.90	2.63	1.92	0.3	877	1.68	10.2	127.7	371.1 6								2.00	65.7	10.7	3.52		588754
SINA-02 r7	3391	2278	41.08	8.60	4.54	2.2	826	6.38	6.6	155.7	700.4 6	683.1 2		63.9					8.73	128.9	29.1	5.92		579004
SINA-02 r9	2870	1911	23.70	6.27	4.37	0.5	1005	4.04	11.0	159.0									1.74	184.9	23.2	7.50		582512
SINA-02 r10	2547	1057	27.26	5.78	3.70	9.0	826	3.79	6.6	140.8	473.4 5	579.5		7.9 5	5056 3	3.99 31.6			2.68	97.9	21.3	5.14		586542
SINA-01 r1	2549	991	782.41	70.49	35.69	35.5	13040	88.52	12.4	. 191.2	711.5 6	652.3 46	5		4523 112	112.70 173.6		.,	498.36	2371.5	226.1	34.58		269887
SINA-01 r2	2563	266	5.53	1.19	0.46	0.5	1306	1.20	10.4	238.7	398.3 6	617.0		41.0 4	4453 1	1.39 10.8	.8 25.76	99.0	14.25	68.4	3.8	0.50		587883
SINA-01 r3	7403	3449	156.62	13.27	3.67	8.3	5333	27.32	16.5	177.5				1509.4 3					24.60	94.7	31.2	2.45		575745
SINA-01 r4	1817	824	19.20	3.91	1.59	2.0	833	4.44	13.9	141.1	599.0	619.6				7 4.67 7	7.4 42.09		40.10	79.2	14.6	1.79		589264
SINA-01 r5	2731	543	24.00	3.23	1.59	1.6	793	3.31	8.9	182.7		581.2			4011 4				24.20	62.9	10.1			588163
SINA-01 r6	2414	362	6.24	1.52	0.53	0.7	44429	1.33	12.7	181.1	409.5 3	388.9		428.8 4	_	1.40 9.1	.1 17.59		9.11	71.5	4.8			553492
SINA-01 r8	1092	889	87.17	44.71	29.93	2.5	926	23.89	10.8	104.2		756.4 5				19.65 16.7			5.68	18.2	216.8			592107
SINA-01 r9	812	486	88.17	31.07	21.19	2.2	1246	21.84	14.1	94.9		617.4 5							7.53	59.8	155.7			586850
SINA-01 r10	11864	1333	133.21	91.55	69.75	4.1	1172	41.26	14.7			629.3 8		158.5 30	.,	32.42 37.4			12.45	28.6	417.7			541178
LB043_r_1	11746	823	11.57	3.15	3.05	0.7	7433	2.39	16.4			229.2			18411 1				8.62	37.5	21.3		544.0	549111
LB043_r_11	5764	<150.248	5.91	0.87	0.73	0.2	9196	0.94	11.0	355.6			4.48			.,			13.74	289.4	4.5			568114
LB043_r_12	448	528	17.53	1.32	1.01	0.5	7064	1.15	33.3	108.2	30.5		-,						0.76	33.1	9.7			589439
LB043_r_13	1252	176	11.11	2.41	1.30	0.3	3744	2.46	8.1	256.4						1.60 335.5	5 24.04		7.75	35.1	11.7		171.7	584627
LB043_r_14	3009	383	19.86	15.32	7.93	2.6	6447	14.27	192.5	6.959									0.02	35.5	55.0			578868
LB043_r_15	213	<321.758	10.08	1.30	1.29	0.3	7366	1.02	15.3	169.0	20.8					1.03 86.6	.6 7.41		20.04	27.8	8.8	2.48		585188
LB043_r_16	7718	652	23.80	2.90	2.03	9.0	6199	3.57	8.4	0.020									3.08	203.6				562105
LB043_r_17	1075	284	10.63	2.65	1.60	0.3	4502	2.36	108.0				8.90					0.15	0.02	73.3	11.6		2903.2	588245
LB043_r_18	17048	<389.641	5.10	0.39	0.23	0.1	7611	0:30	17.6	486.9	4								18.03	29.5				539776
LB043_r_2	7118	240	1.03	0.36	0.30	0.1	2143	0.31	13.3							0.16 785.8			20.77	20.7				569629
LB043_r_3	486	<327.903	0.63	0.03	0.05	0.0	5973	<0.023	25.7										13.81	399.1				589233
LB043_r_4	876	<425.333	5.17	1.47	0.29	0.2	25 25 26 26 27 28	0.91	7.1	132.9	<5.338 4	402.2	3.35	5. 6	1951 0	0.35 91.7	7 12.83	2.61	68.9 68.0 68.0	63.3		0.52	115.2	587219
LB043 r 6	7414	<169 681	36.45	8.72	47.0	5 -	3761	2 6	35.3		4			,				7	10.75	131.9	. 65			563343
LB043 r 7	2190	375	0.22	0.10	0.07	0.0	1931	0.10	15.2		٠						7 5.20		12.43	30.8				578627
LB043_r_8	518	<379.833	2.99	0.56	0.25	0.1	11960	0.59	13.4		•								7.71	1416.4				582423
LB043_r_9	7501	<157.416	0.48	0.08	90.0	0.0	7032	0.05				47.8		3.5 15		0.07 794.5			12.73	208.5				553372
LB044_r_1	9264	1466	30.03	8.80	7.07	1.3	2375	6.21				189.0							1.93	50.5				564828
LB044_r_10	1749	463	53.16	17.50	13.88	5.2	3530	13.23	33.2		•					•	_	_	20.31	82.1		15.64		584998
LB044_r_12	1018	1914	99.62	23.05	12.62	4.2	3079	19.42	19.6			U	•		.,				4.	17.4		17.22		579382
LB044_r_13	209	<153.804	1.92	0.22	0.12	0.0	5175	0.33	37.9	106.9							_		4.04	96.5	0.7	0.11		590157
LB044_r_14	809	981	48.96	12.35	8.25	1.8	1665	10.22	23.3	156.0	•				_			_	1.97	7.77	46.9	11.53		590728
LB044_r_15	1230	4037	62.87	24.34	19.07	3.9	719	14.95	86.2	181.7		•			_			.,	60.6	61.0	102.1	25.48		584655
LB044_r_16	657	992	43.76	7.00	6.17	4.1	2686	5.70		226.2						4.88 12.5	5 6.94	11.29	2.08	25.4	40.6	6.81	m	588402
LB044_r_17	4626	1224	80.98	17.70	15.04	4.7	13562	13.34		2050.8	258.9	•				.17 24.2	2 13.5	23.34	25.82	7.77	92.4	16.79	ω.	266882
LB044_r_2	15636	1052	98.99	18.13	12.77	2.3	26417	12.49	17.2	432.2	155.2	64.0	36.14 23	233.5 23	23487 10	10.36 52	8 5.2	7.70	8.83	104.5	72.2	16.07	502.9	527001
	¥.	*All elements are in ppm.	ents ar	d un ə.	bm.																			

Appendix C: Eastern Sunda arc rutile trace element chemistry (LA-ICP-MS)

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Analysis ID	₹	Ca	ce	Dy	ū	Eu	Fe	PS	¥	Mg Mn		N qN	Pb	Si	Sm	Sn	Та	Т	n	<b>^</b>	۲	Z	_	_
LB044_r_3	5619	<159.801	4.93	0.63	0.59	0.0	8440	0.27			6	161.7 1.	.38 30.1		0.29	37.7	11.75	1.47	1.77	132.1			(0	571362
LB044_r_4	3192	1203	95.00	21.32	17.32	1.7	21846	16.83		10	.,	<u> </u>		_	12.74	8.8	11.27	13.03	4.99	48.6		_	e	559131
LB044_r_5	686	998	43.92	10.72	7.39	1.3	2225	8.71				0	-		9.78	17.6	13.65	3.71	1.86	10.5			60	584567
LB044_r_6	879	883	64.68	22.11	18.50	6.5	1223	17.54	4.8			_	49.92 62.1	2908	13.42	44.6	3.13	76.68	18.35	51.5		25.80	158.9 5	591499
LB044_r_7	185	<373.248	4.59	0.57	0.15	0.1	2205	99:0			, ,		2.12 2.2		0.95	46.7	10.20	89.0	15.10	553.7		,		589589
LB044_r_9	66 2	<315.523	0.78	0.07	0.05	<0.006	5/95	0.05							<0.023	7. 55	9.46	0.24	2.23	71.4	0.4	_	., -	90098
NEE-01 r 11	597	454	0.41	0.32 <0.00 80.00	0.01	- c	5890	90.0					38	776	9 9	115.0	40.07 0.62	4.0	28.32	202.2	0.0		., -	590217
NEF-01 r 12	1344	881	16.23	1.45	0.64	0.4	2999	2.03			, (,	360.1 12.	27 1.2	1853	2.86	97.7	29.00	24.02	23.86	112.7	6.0		, .,	588181
NEF-01_r_13	451	321	6.58	1.23	0.61	0.2	6919	1.57					1.1	1038	1.76	276.7	12.60	7.75	12.15	104.8				88994
NEF-01_r_14	1489	531	7.74	2.53	1.83	0.4	6224	2.28	7.2			376.0 7.	1.7 1.7	3826	1.80	239.4	22.33	11.95	15.86	180.3				584114
NEF-01_r_15	357	<168.149	23.27	1.62	0.84	0.5	8417	3.17	4.0		•		.32 1.8	413	4.16	115.4	33.94	23.81	14.35	138.5				89041
NEF-01_r_16	3936	778	7.60	1.11	0.27	0.2	14942	1.30	3.2 2				46 2.5	5497	1.80	102.9	17.36	15.65	12.21	79.0	0	0.21		70834
NEF-01_r_17	157	159	5.95	1.81	0.83	0.3	7570	1.96	2.5				84 1.2	1037	1.66	94.9	11.08	4.01	8.26	58.3				90218
NEF-01_r_18	689	275	7.10	0.69	0.35	0.2	13381	1.22	3.5						1.42	71.5	15.66	8.95	16.44	51.8				84307
NEF-01_r_19	2725	279	9.49	1.52	0.71	0.3	11840	2.06	3.5			177.0 8.			2.18	104.3	10.28	15.42	16.79	139.5				63733
NEF-01_r_2	1238	<324.043	0.93	0.16	0.08	0.0	5753	0.29							0.21	103.0	55.58	1.25	7.58	1798.9				86184
NEF-01_r_20	239	<191.161	0.06	0.01	0.02	0.0	6173	0.05	8.6						<0.016	236.8	24.85	0.57	4.55	113.8	0.1			91872
NEF-01_r_21	4231	223	11.06	1.35	0.71	0.3	8834	2.06	1.4					7180	2.10	111.6	16.71	12.59	19.47	121.2				74438
NET-01_1_22	9000	41.354	4 4	0.5	0. 5	0.0	2909	0.00			•				0.03	5.04	20.04	13.60	5.90	67.0				/08ZU
NEF-01_F_23	383	477	1.7	50.5 50.5 50.5 50.5 50.5 50.5 50.5 50.5	44.	0.0	07/0	t 6				_				4.08	23.50	04.71	5 5	07.0		n .		90.132
NEF-01_r_24	4532	1048	0.88	3.44	0.09	0.0	10471	4 03	12.7	99.b	119.0	201.1 U.54 410.7 14.20	20 35	8751	3.70	1503	20.16	30.83	18.69	210.2	13.7	1.45	62.7 51	592203 569165
NEF-01 r 4	267	<166.074	0.41	0.07	0.01	0.1	5482	0.16			.,	"				178.2	29.79	0.13	6.05	126.0				91814
NEF-01_r_5	450	<138.376	0.09	0.03	<0.005	0.0	5292	<0.011	10.8		•					202.2	26.64	90.0	7.53	156.4				92297
NEF-01_r_6	631	<179.124	0.10	0.04	<0.006	0.0	5530	<0.015				299.0 0.				184.9	30.59	0.13	10.36	147.1				90853
NEF-01_r_7	919	362	12.34	1.38	0.29	0.3	7780	2.29			•				2.70	151.1	28.82	21.83	20.00	356.0				79818
NEF-01_r_8	3349	<308.449	2.89	0.75	0.39	0.0	9522	98.0	4.9		•				0.57	163.6	27.08	5.83	14.02	354.7				78037
NEF-01_r_9	152	<134.375	0.09	0.02	<0.005	0.0	9492	0.03	~						<0.010	150.9	17.39	1.40	8.16	158.7	0.1 <0			89388
NEF-03_r_1	28244	9642	14.14	2.45	1.07	9.0	28678	2.85	2.4 9						2.87	45.2	6.04	8.84	4.79	19.1				74225
NEF-03_r_10	218	389	52.98	12.90	6.25	2.5	2481	15.09						719	13.91	109.9	5.03	19.15	7.18	44.9	48.2	5.28		89634
NEF-03_r_11	1824	362	10.61	9.40	3.78	8. 5	7276	14.18	9.17			172.6 46.			15.98	98.3	5.40	13.49	5.44 9.04	32.7			., -	981209
NEE-03 - 13	338	320	20.04	3.70	50.	† °	0518	t 79 c	t 9		٠				3.04	0. 2	† v	16.23	0.30 70 A	10.4			, -	86260
NEF-03 r 14	2084	202	12.56	2.80	1.37	0.5	9316	4.03	3.6						3.36	50.7	1.43	6.40	6.49	12.1			,	582140
NEF-03_r_15	158	682	46.79	7.60	3.74	1.	4817	10.15			٠				12.13	93.5	5.29	8.67	6.27	14.3			٠,	91384
NEF-03_r_16	6047	170	30.94	6.64	3.53	<del>[</del>	10972	8.84	11.9 6.	6300.0	•	154.5 26.87			8.69	108.6	7.42	5.73	7.50	39.2			-,	543483
NEF-03_r_2	26686	2334	147.46	21.04	8.92	3.4	7800	30.61							35.14	78.5	4.39	43.75	6.64	35.3				10314
NEF-03_r_3	4996	216	8.20	1.45	0.67	0.2	7470	1.63	_						1.99	30.7	5.56	11.00	90.9	14.8	_			72599
NEF-03_r_4	124	<133.376	13.22	3.92	2.07	9.0	3817	4.45				_			4.30	89.1	6.51	3.96	4.40	20.9				589902
NEF-03_r_5	169	2478	14.78	3.14	1.58	4 i	4628	3.76	6.0	95.0		97.5 11.50			3.40	22.0	4.04	13.12	86.4	13.7	10.1	1.73		91314
NET-03_T_6	320	20844	212.23	25.45 42.62	15.12	0.0	22093	17.64		_	_				52.24	5.9T	b. 0	28.18 61.18	9.82	7.07			., .	51.47
NEF-03-1-7	7343	433	11 70	0 0	0.41	0.0	7186	1.7	0 0	3.14.3					90.7	30.0 40.6	5.50 5.00 5.00 5.00 5.00 5.00 5.00 5.00	9.00	0 0 0 9 8	2.02			., -	583468
NEF-03 r 9	495	196	47.06	10.13	4.23	1 5	3868	13.68							15.07	78.9	4.89	98	4.02	110.6				589057
SEF-02 r 1	151	<308.305	2.18	0.19	0.13	0.0	5652	0.23	2.1					854	0.28	243.7	12.25	4.52	2.95	152.1	_		٠,	591707
SEF-02_r_2	47	<303.409	2.64	0.25	0.16	0.0	2280	0.14	4.4	0		10		, 5	0.26	311.5	33.58	7.70	4.85	353.4	6.0	0.21	68.3 59	592327
SEF-02_r_3	1437	17686	112.08	3.96	1.83	1.6	10396	7.09	6.	_	•••	_			9.81	243.1	19.07	53.81	24.41	1138.6		1.57	2	553191
SINA-04_r_1	6243	911	79.74	25.91	14.79	2.1	1121	17.44	11.5	451.0 2	211.7 6	332.1 51.50	.50 73.5		17.38	33.9	25.38	5.63	25.38	64.3	86.5	6.19	364.8 5	74287
SINA-04_r_2	10715	062	68.04	12.11	7.44	1.0	1004	7.35	6.7	0)	.,	_	-	16322	8.13	10.5	18.73	2.92	5.62	51.4	46.8	7.79	0	563278
	*	*All elements are in ppm.	ents ar	e in p	pm.																			

Appendix C: Eastern Sunda arc rutile trace element chemistry (LA-ICP-MS)

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Analysis ID	Ι	Ca	Ce	Dy	Ę	Eu	Fe	РĐ	±	Mg	Mn	N QN	Nd Pb	Si	Sm	Sn	Та	丘	n	Μ	٨	Υb	Zr	<sub>E</sub>
SINA-04_r_3	3200	1052	71.74	21.39	12.53	1.9	1086	14.58	24.5	245.3	188.6				8281 15.64	_	3.7 24.83		9.91	9.99	83.6	13.74	562.0	581077
SINA-04_r_4	2164	838	92.30	25.82	16.04	6.1	1135	16.31	11.3	133.6	225.6	<b>6</b>	53.19						6.10	50.6	102.5	14.79	333.5	588584
SINA-04_r_5	1673	831	82.23	19.99	11.60		1213	12.30	10.2	119.1	167.6	639.7	41.55		728 12.4		5.2 26.68			58.1	75.3	13.74	331.8	590663
SINA-04 r 7	4129	<359.763 916	96.20 110.28	10.72	16.43	2.6	3272	9.30	15.6	224.4	273.7	611.9	48.14 12	3.00.00	3025 6. 8631 14.	53 / .2 87 5.5		5 1.03 6 2.41	7.59	103.7	110.2	21.60	530.5	578307
SINA-04_r_8	2486	917	81.80	22.10	14.54	2.0	1230	16.03	16.9	142.6	224.0	_			14.58	•	.7 29.51			55.7	87.5	17.25	456.8	586338
SINA-05_r_1	7982	2084	50.63	14.83	9.32	4.9	2805	11.42	11.0	396.0	429.0	_			22799 12.	"				65.0	69.1	99.6	321.2	555090
SINA-05_r_2	11906	1644	165.07	27.80	16.23	8.0	113848	26.16	8.3	694.8	249.6	_	01			_		_		667.4	118.9	16.38	214.9	466209
SINA-05_r_3	11119	1280	141.27	42.30	28.65	10.6	21948	28.57	8.4	624.3	335.1	679.2			_	_				214.4	193.3	30.87	238.2	541511
SING-01_r_1	1919	24459	2.42	1.91	0.91	0.5	5899		65.2	187.5	147.5									291.2	9.5	0.68	1361.3	543375
SING-01_r_2	35	<255.963	0.03	0.03	<0.009	0.0	4089	<0.020	21.7	79.9	<3.891			δ	.382 <0.021	21 358.1				761.9	0.1	0.14	340.0	591429
SING-01_r_3	2692	74471	8.13	8.08	4.79	2.8	10214	7.95	31.3	471.7	344.5								_	95.2	44.5	3.19	668.3	438343
SING-02_r_10	13198	52216	58.23	12.85	7.09	9.7	1613	16.95	11.6	220.9	364.1				36527 17.00	_	13.38			232.8	83.4	6.48	167.1	487143
SING-02_r_11	4789	14462	20.27	6.27	3.85	2.7	5789	6.14	15.9	245.0	78.6	333.3	24.07			23 113.2		18.86		206.6	39.5	4.38	372.6	556074
SING-02_1_12	9701	3029	7 .80	<u> </u>	10.1	S. 0	722	/9:	0.12	730.1	`				1.92					203.4	4.0.	ج. الح	327.2	583383
SING-02_r_13	7587	25107	31.08	7.5/	90.5	0.5	3044	2.06 4 33	4. 6.	206.6	82.4	7.00.7			1904 3.	5.101. 2	7 28.75			323.4	9.7	98.0	720.4	540101
SINC OF THE	1 1 2	191000	76.35	, u	20.7	- 6	1,602	5 6	t c	200.0										167.04	5 6	00.4	7 090	404600
SING-02 - 2	5089	17107	13.28	1.87	1.05	<del>L</del>	3933	1 77	4 1 4	407.3					17.6	75 987				5.70	10.4	1.47	161.4	554289
SING-02 r 3	2141	12115	18.14	3.24	1.50	1 7	2166	3.65	12.6	125.5										305.2	13.8	1.46	279.0	572054
SING-02_r_4	14118	31525	33.65	5.79	3.72	2.7	2372	5.74	14.5	392.6	143.2									480.8	34.4	4.61	298.6	502358
SING-02_r_5	3128	10819	6.27	4.	0.44	0.4	1835	2.20	20.6	138.1	30.8									141.5	5.8	0.28	323.3	568281
SING-02_r_6	7143	21744	17.22	3.66	2.46	0.8	1617	2.61	16.9	599.8	68.5					2.81 133				148.2	19.5	3.20	289.5	542074
SING-02_r_7	1992	2966	3.73	1.14	0.78	0.1	2712	1.02	31.8	203.8	160.0									174.4	7.4	1.00	455.1	580224
SING-02_r_8	9243	35831	19.73	11.71	5.44	6.8	2332	14.15	4.4	285.7	153.6									104.6	70.3	4.89	107.9	519616
SING-02_r_9	13707	50416	8.22	1.35	1.01	0.3	1531	1.29	11.8	203.4	74.1									183.4	8.2	98.0	218.4	487218
TR-04_r_1	4173	22773	74.82	29.64	19.93	4.3	5691	27.14	5.1	439.8	134.8									230.8	158.3	22.34	111.6	548725
TR-04_r_10	21044	53269	36.85	16.33	10.72	2.5	20083	14.21	0.0	11729.4	485.0									140.7	88.8	10.16	228.8	429191
TR-04_r_2	8671	24709	56.20	11.90	7.94	2.2	11543	10.59	10.9	4783.1	295.8		38.35							167.4	63.6	9.00	298.0	525501
TB 04 " 4	1900	18781	37.28	4C.21	9. 4. 9. 6.		5313	10.90	0.781	103.3	30.0	Z17.5								123.0	- 00.	13.73	3/12.8	502784
TR-04 r 5	1830	5313	11.71	2.77	1.90	0.0	6086	2.60	13.5	1385.8	392.3			6.0	5680 1.71	71 49.6		6 12.13	5.46	135.9	30.6	2.21	467.6	575190
TR-04_r_6	4908	22860	41.58	8.96	5.52	1.6	5841	8.50	8.7	601.2	85.7									198.3	41.8	6.56	306.4	547231
TR-04_r_7	946	4825	13.71	2.47	1.41	0.3	8036	2.54	7.1	170.2	312.0									188.2	12.9	2.14	298.5	582947
TR-04_r_8	4003	55721	115.87	33.75	21.70	4.9	4961	34.13	10.0	208.6	300.3									250.8	180.6	20.42	265.5	525047
TR-04_r_9	7701	30512	36.31	22.98	18.81	2.5	10228	14.54	11.7	3711.9	232.6				26031 9.					207.1	137.4	26.21	313.9	518395
TR-05_r_1	39	<269.497	3.12	0.53	0.34	0.1	9909	0.52	18.6	93.9	405.3									38.6	1.7	0.27	947.2	591770
TR-05_r_2	12139	1186	21.41	10.56	7.05	5.5	8908	2.58	16.7	1763.6	338.5									91.4	48.7	7.32	840.7	545607
TR-05_r_3	2980	288	3.72	4.23	3.23	4.0	10/42	2.35	3.0	4214.8	215.3	7.4.7				7.08				2.47	25.4	5.76	38.1	570907
TR-05 r 5	3957	378	10.01	32.34 4.51	3.71	0.4	11059	20.02	0: 4	417.0	203.7				6371 1	79 155.5	13.53			388 1	22.5	4 82	21.5	576290
UG012183_r_1	1790	<299.992	1.30	0.09	0.05	0.0	2058	<0.020	7.6	88.5	37.9	_				0.07 920	•			713.3	0.3	90:0	150.3	590304
UG012183_r_10	1801	<297.352	6.34	0.45	0.35	0.2	1855	0.37	14.0	109.7	79.4							9 16.64		875.4	2.3	0.44	221.2	588332
UG012183_r_11	1060	<301.614	0.17	0.03	0.02	0.0	961	<0.021	13.4	84.1	23.4									342.7	0.2	90.0	216.1	588837
UG012183_r_12	1897	<283.847	16.61	3.70	2.42	0.7	1220	3.73	12.8	97.7	37.2			11.1	1215 2.		18.42		_	477.1	15.5	2.20	224.0	587513
UG012183_r_13	50568	497	5.66	0.58	0.18	0.2	1738	0.73	15.0	89.5	9.6		2.84						6.92	929.0	6.	0.22	212.5	532531
UG012183_r_14	3536	<101.019	0.84	0.08	0.08	0.1	2689	0.12	22.2	142.5	29.1	<b>п</b> (	0.58						9.04	911.1	4.0	0.10	399.5	582754
UG012183_r_15 UG012183_r_16	14152	<312.184	85.36	11.24	6.25	2.1	1293	10.15	5.2	93.7	18.7		37.40			7.07 259.1	9.20	17.66	9.70	556.3	46.4	6.60	90.3	57.7390
UG012183 r 17	9768	<269.996	0.46	0.10	0.06	0.0	2709	0.02	17.7	257.0	132.2	81.1		10.3	3373 0.	02 427.		_	12.18	228.1	0.3	0.03	324.0	570911
:             	*	*All elements are in ppm.	nents a	re in p	mdc	;	ì	;	:	:					i 2	! !	:	,	į		;	;	:	

Appendix C: Eastern Sunda arc rutile trace element chemistry (LA-ICP-MS)

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Analysis ID	₹	Ca	Ce	ል	ம்	п	Pe	- 95	ž	Mg Mn	QN L	PR q	<b>&amp;</b>	Si	Sm	S	Тa	ᇀ	<b>D</b>	>	<b>&gt;</b>	Q.	Zr	F
UG012183_r_18	1534	298	0.24	0.04	0.01	0.0	2920	<0.021					0.12 1.7				.8 5.31	_	2.74	1359.8	0.1	<0.012	121.0	584583
UG012183_r_19	5255	<360.750	0.19	0.19	0.14	0.0	2144	<0.027	_		100.001	"	0.16 7.8	8 6604	٧			9 4.38	10.86	495.8	0.7	0.10	336.6	578247
UG012183_r_2	1225	<281.491	108.70	14.55	8.74	2.2	1450	12.76	21.0	83.0		_	47.77 5.1	1 1876		19 180.9	.9 13.25		14.39	137.7	6.79	7.87	412.3	590180
UG012183_r_20	1875	<279.638	<0.005	<0.011	<0.00>	<0.006	3201	<0.021		•	(,)	•	:0.020 0.0	0 1138				_	4.45	1364.2	0.1	<0.012	362.8	587241
UG012183_r_21	5115	<303.134	0.03	<0.012	<0.010	>0.000	1545	0.08					_		6 <0.023			_	6.92	604.5	0.1	<0.013	360.2	580255
UG012183_r_22	3153	<287.946	1.44	0.11	0.05	0.0	1078	0.07			m	_		4 3631		17 443.8	_		3.97	512.4	0.5	0.11	178.7	583121
UG012183_r_23	6302	<292.120	0.16	0.02	<0.00>	0.0	1791	9.0	18.7 18		46.5	160.0	0.09 3.2					_	20.68	400.6	0.1	0.02	364.0	577048
UG012183_r_25	18410	<136.453	0.17	0.03	0.05	0.0	2768	<0.011		_	10		0.09	2 21129		<del>-</del>	_	13.90	8.05	656.1	0.1	0.01	6.505	539821
UG012183_r_26	1639	<273.027	33.06	5.72	3.42	1.3	1308	5.70	4.5	81.8	_ 	٠.	18.68 3.3	3 1042			•	_	12.82	579.8	25.6	2.82	91.7	590342
UG012183_r_27	4855	<284.479	0.17	<0.012	0.02	0.0	1853	<0.021			86.7 4	_	_						2.98	516.2	0.1	0.03	338.2	582047
UG012183_r_28	29286	<350.187	2.83	0.54	0.31	0.1	1843	0.39			•		_		_	23 1395.5	(A	4 27.83	11.75	905.1	4.	0.22	125.8	558843
UG012183_r_29	1964	392	0.14	<0.006	0.03	0.0	2442	<0.012					~	.,					3.05	971.0	0.1	0.04	212.5	586943
UG012183_r_3	789	<336.565	4.81	0.75	0.29	0.2	1582	0.74	5.8	92.2	34.5 7	718.9	3.26 3.0			_	•		3.18	100.0	1.5	0.08	159.7	592890
UG012183_r_30	1995	<120.373	0.44	0.07	0.02	0.0	1036	90:0					0.35 6.2	2 2873		_		_	5.17	170.7	9.0	0.04	178.2	587782
UG012183_r_4	1105	<313.336	96.22	9.04	5.86	4.1	1590	96.8				•	37.41 2.9	9 <594.170		_		5 52.75	9.75	0.777	42.7	4.62	81.9	591633
UG012183_r_5	10129	<353.241	0.15	0.20	0.07	0.0	2054	0.10	14.1	171.8	9.2		0.13 3.4						8.45	503.0	0.5	0.18	248.8	572709
UG012183_r_6	1994	<339.128	<0.005	0.07	<0.010	<0.007	27.85	<0.024	16.5	80.4	6.1 2		<0.023 0.6	6 859	9 0.03	_		_	3.91	1874.5	0.1	0.01	296.0	587938
UG012183_r_7	1085	<283.161	23.39	2.33	1.12	0.5	1156	3.02	9.1	89.5			10.03 3.4	4 1798			.8 10.87		11.00	419.0	10.8	1.16	125.3	590137
UG012183_r_8	1498	202	0.22	<0.005	<0.004	<0.003	2066	0.03	9.6	99.5	20.3	0.69	0.10 1.7	7 1430					4.85	1498.1	0.1	>0.006	238.0	588640
UG012183_r_9	1271	<300.620	0.07	0.08	0.09	0.0	890	<0.021	14.6	87.0 <4.			0.04 0.3				.6 2.06		12.46	179.9	0.5	0.11	333.8	590372
UG012185_r_1	18890	1204	89.8	0.56	0.35	0.2	6459	0.71	11.6	358.7 1		782.5 4	4.26 10.9	(,)	_		.9 21.15	16.31	16.60	1210.5	2.3	0.21	263.9	525904
UG012185_r_10	1555	<265.330	3.20	0.08	0.07	0.1	6961	0.20			204.5		1.10 15.6						16.27	1072.7	0.5	0.07	262.5	584772
UG012185_r_11	15101	<329.772	16.57	1.25	0.61	9.0	6729	0.75			_						.6 31.06		11.21	1298.4	4.2	0.80	153.6	546483
UG012185_r_12	19355	<303.955	20.10	1.43	0.70	6.0	6346	1.50				1126.4 7							13.55	1285.9	5.4	1.15	172.8	527859
UG012185_r_13	49688	876	17.93	1.18	0.76	2.6	8103	2.52										(4	18.13	1100.2	4.0	0.76	280.5	454644
UG012185_r_14	14442	<130.718	7.38	0.20	0.16	0.1	6496	0.21											10.00	1752.3	6.0	0.16	205.8	547808
UG012185_r_15	11090	650	7.27	0.57	0.37	0.2	6208	0.48			169.7	422.2		4 17158		26 1083.4	.4 8.64		10.55	1493.6	2.5	0.74	225.1	556200
UG012185_r_2	28010	453	4.90	0.17	0.09	0.1	5729	0.12											15.30	6.989	9.0	0.00	283.9	501632
UG012185_r_3	13112	194	10.66	0.41	0.29	0.3	6092	99.0				1322.2 4					.3 35.99	_	11.16	2071.6	2.2	0.36	225.1	548472
UG012185_r_4	7569	<281.874	6.27	0.31	0.11	0.2	5848	0.45					2.85 7.4						11.94	1576.1	1.0	0.26	331.1	569463
UG012185_r_5	12295	<280.341	20.26	1.17	96.0	0.8	7459	1.62					_		_				13.15	993.4	6.5	1.86	427.4	547386
UG012185_r_6	8553	159	12.35	0.51	0.36	0.3	6459	0.65	10.7 2		116.6 7.		~		4 0.57	57 1319.0	.0 19.91	12.40	9.03	1039.8	2.3	0.47	229.9	568120
UG012185_r_7	3934	199	11.06	1.05	0.71	0.5	4730	0.79											7.42	991.1	4.2	1.10	187.7	581344
UG012185_r_8	27127	829	9.45	0.65	0.26	0.4	7554	1.08	13.7 34				,						15.72	991.9	2.4	0.48	307.2	510412
UG012185_r_9	11736	203	10.54	0.44	0.27	0.1	7616	0.36						_				_	11.80	891.4	£.	0.23	324.9	552254
UG012187_r_1	267	<271.085	103.88	2.38	0.95	0.7	4073	5.24	20.5		15.4	_	60.25 0.6		7.96	96 96.3			12.49	191.4	7.5	0.51	792.8	589905
UG012187_r_10	388	<284.443	86.55	5.21	1.86	0.0	3290	10.43				_	9.53 0.9						7.53	388.9	18.0	1.65	416.6	590932
UG012187_r_11	2747	<260.927	14.71	1.48	1.18	0.5	402	1.99	- 8		<3.585 2			\$					1.96	178.0	7.1	0.68	0.06	590765
UG012187_r_12	3520	<291.180	0.07	<0.012	<0.00>	<0.006	-	<0.022						4	V	=	_		0.22	13.3	0.1	<0.012	104.8	532346
UG012187_r_13	47.54	<258.128	11.05	1.03	0.53	0.3	3393	<u>.</u> .					7.80 1.2	2 2503				5.36	3.97	340.8	6. 6	0.53	247.4	584601
UGU1Z18714	195/	174	SZ-42 20.04	0.23	7.47	- 6	7,00	94.1		23.2	19.5	Z49.3 OC	0.90 0.8			900.0	24.2		78.4	243.b	8.82	80.	- 5 5 5 7	520000
11G012187 r 2	1521	427	4 46	790	0.00	5 5	20.00	27.0					2.46 7.6		20.0			_		456.7		9 0	22.5	500175
UG012187 r 3	4143	<310.983	0.19	<0.013	0.02	<0.006	73	<0.023	. 6	V		v	0.022 0.2		V		11.66		0.10	30.1	0.1	<0.013	6.09	588343
UG012187 r 4	9635	<256.188	6.71	0.55	0.35	0.2	1651	1.13	10.4	٠				_		708.6			1.39	56.3	3.3	0.27	77.2	566398
UG012187 r 5	16215	<320.829	24.10	2.77	0.99	0.8	317	2.29					2.64 2.2						1.93	38.9	11.6	1.06	74.0	537681
UG012187_r_6	480	<117.243	12.30	0.98	0.57	0.3	2816	1.06	10.1			0	5.50 11.0		_	_	(*)		26.25	326.9	4.3	0.51	177.9	593010
UG012187_r_7	320	<272.203	165.79	8.18	2.97	4.1	3321	16.41				297.9 106	06.66 0.4	4 <527.813	.,			.,	14.38	340.0	30.3	1.95	605.9	590582
UG012187_r_8	491	315	7.80	0.95	0.69	0.3	3442	1.28	6.3	88.1	_	324.3 4	4.67 1	3 <525.711			.0 9.33	1.91	2.07	513.3	4.6	0.47	145.5	591773
UG012187_r_9	712	<420.079	12.59	3.64	1.57	0.5	3976	1.24	19.4	٠	<5.799 4	430.8	5.84 7.1	6 <810.690	0 2.5	36 8£	.6 14.17	7 2.41	2.46	347.8	9.2	1.15	224.0	591701
	*A	*All elements are in ppm.	ents ar	e in pl	om.																			

Appendix C: Eastern Sunda arc rutile trace element chemistry (LA-ICP-MS)

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Analysis ID	A	Ca	Ce	Dy	JЭ	Eu	Fe	P9	H.	Mg Mn	qN u	PN q	Pb	Si	Sm	Sn	Та	두	n	W	γ γ	Yb Zr	<u> </u>	
UG012188_r_10	316	116	30.78	5.35	3.70	1.9	6272	4.17	5.8			188.3 12	12.62 6.1	244				18.62	7.58	1187.0				588770
UG012188_r_11	536	<315.206	0.12	0.04	<0.010	<0.006	6532	<0.023	7.5	Å			0.06 2.1	1531			1.63	1.78	5.91	1642.5	0.0			585354
UG012188_r_11	1027	<140.409	8.46	0.72	0.36	9.0	6932	0.82	6.1	90.5	64.1 2		4.13 8.2	2 898		711.6	<b>~</b>	5.17	2.93	3950.3		0.56	50.1 58	582728
UG012188_r_12	1456	<108.743	0.22	0.02	0.01	0.0	0866	0.02	12.0		•		0.08 2.4	91(			9.22	2.31	9.25	13008.5	0.1			57 1961
UG012188_r_13	359	<121.809	0.16	<0.006	<0.004 0.08	<0.003	7360	0.03	5.7	88.1	25.6		0.02 1.3	~ .	<0.010		1.52	0.52	8. 83 4. 83	3058.6	0.0	0.02		583536
UG012188 r 15	698	<118.257	0.25	10.0	40.004	0.0	6884	0.01	10.5			212 0		01				0.80	7.18	2327.9	0.7			583434
UG012188_r_16	469	<115.593	15.53	2.84	1.78	<del>-</del> -	6601	2.47	6.9				7.62 8.5	5 270			(4	16.79	7.52	1097.0	14.5		86.1 58	588179
UG012188_r_17	408	<133.767	0.08	0.01	<0.005	0.0	6244	<0.012	11.6				0.04 2.1	1902				0.92	6.67	1748.9			-,	582253
UG012188_r_18	2040	<111.255	0.72	0.05	0.03	0.0	9415	90.0	4.3						3 0.04	1217.6		2.85	14.73	7563.5				78797
UG012188_r_19	292	131	1.41	0.09	0.11	0.1	5924	0.08	4.8			116.0 0	0.40 3.8			1109.8		3.94	6.79	4133.0				33224
UG012188_r_2	468	<112.265	0.05	0.02	0.01	<0.003	7170	<0.010	9.2	_						1077.		0.58	5.70	1648.2				90598
UG012188_r_20	922	<115.580	0.52	0.01	0.01	0.0	6874	<0.010	2.7		21.1		0.14 5.9	9 1142		1337.		1.70	10.45	3308.1	0.0		119.3 58	582892
UG012188_r_21	265	<111.518	0.16	0.01	<0.004	0.0	6616	<0.010	11.0					_		1639.0		1.1	7.68	1999.1	0.1			34310
UG012188_r_22	564 264	<122.582	0.55	90.0	0.02	0.1	7585	0.05	1.1					_		1091.		1.20	6.21	6153.7				74174
UG012188_r_23	4802	<119.507	1.33	0.11	0.13	0.2	8665	0.20	16.5			147.6 0	0.64 3.0	) 5534		703.	3 11.55	3.14	2.11	228.9			274.2 5	577911
UG012188_r_24	4008	<135.490	19.56	2.01	1.17	6.	2640	1.95	3.8					_		396.		11.85	4.64	1006.1				76196
UG012188_r_26	366	<137.784	11.50	1.03	0.69	0.7	6587	1.26	10.8		3.3		3.04 0.8			794.		7.17	5.83	4960.2	6.9			33794
UG012188_r_27	830	<115.444	0.40	<0.005	0.01	0.0	9269	0.02	8.4	88.7				3 795		874.		0.76	7.97	5081.5	0.1			929089
UG012188_r_29	212	<167.825	0.35	0.22	0.15	0.2	2646	0.18	20.3					10		841.		0.92	1.27	141.8	7			91069
UG012188_r_3	726	147	0.12	0.01	0.01	0.0	8400	0.05	10.6				(,)	٥.		1170.		1.37	7.94	8302.4				78021
UG012188_r_30	1152	<145.580	15.02	1.59	0.99	<del>-</del> -	6216	1.81	8.7		50.7		7.25 7.8	3 1619		715.4		15.87	09.9	2223.2		1.32	97.4 58	32390
UG012188_r_31	272	<125.823	21.08	3.13	2.20	<del>-</del> -	7719	2.49	10.4							977.6		9.52	7.65	1460.9	16.6			587232
UG012188_r_32	¥	<123.431	0.09	<0.006	0.01	0.0	2068	0.01	-							1063.		3.46	5.29	1600.3				37317
UG012188_r_33	7271	<135.167	24.70	2.37	1.49	1.0	5856	2.59	8.9				11.16 10.2			444.		9.95	4.82	1199.6				36206
UG012188_r_34	281	<182.914	2.59	0.25	0.19	0.3	7623	0.38	11.2	92.8	95.7					1227.(		2.48	9.76	3133.8				34841
UG012188_r_4	484	<122.369	0.39	<0.006	<0.004	0.0	7644	<0.011	10.4							1797.		1.88	12.36	6579.8	0.0			77238
UG012188_r_5	485	<130.636	0.10	0.03	<0.005	0.0	8660	<0.011	9.4	_						898.0		0.84	1.92 1.92	8007.9	0.1			79077
UG012188_r_6	197	<168.370	77.0	<0.008	0.02	0.0	3456	0.02	4; r	v						3.1.98		2.70	D. 0	1357.3	0.1		29.7	83201
UG012188_r_/	455	<121.536	8.38	5.73	0.88	9.0	8018	90.1	5 0		43.4					414.		4.83 6.83	5.72	16/4.1				56124
UG012188_r_8	9012	<123.262	0.76	0.09	0.06	L.O	7.944 6.006	0.06	3.7	83.4		0 4.77	0.33 3.5	7220 484	0.05	983.6	5 5.61	2.08	9.24	2800.4	4. 0	21.0	46.8 183.1	585162
UG012189 r 1	4811	<131.118	68.0	0.00	0.0	0.0	12374	0.04								885.5		3.52	5.23	1139.6	0.2			8008
UG012189 r 10	178	<274.334	0.05	0.02	<0.008	<0.005	8466	<0.020			_		1.03	1448		483.8		0.30	3.74	434.9				38151
UG012189_r_11	202	<134.204	0.93	0.03	0.01	0.0	7444	0.08		91.1			0.5	5 829		993.7		2.04	5.91	573.8				589742
UG012189_r_12	4593	<322.658	5.11	0.22	0.08	0.2	9081	0.41				954.1	2.16 10.2	٠	_	471.4		2.56	6.55	1446.6	0.5		~	34816
UG012189_r_13	3228	723	1.46	0.21	0.09	0.0	6568	0.20	15.4	94.4			0.82 1.4	_		545.7		5.22	5.63	1745.8	0.7			580932
UG012189_r_14	1994	<136.824	4.80	0.54	0.32	0.4	11216	0.73			_		(,)	_	_	2110.0		6.32	9.50	2861.7				576723
UG012189_r_15	239	<129.814	1.20	0.07	0.05	0.0	7011	0.13					0.75 4.1	_		560.6		2.99	4.37	1425.3				89058
UG012189_r_16	14535	155	0.58	0.05	0.03	0.0	8729	0.08					0.27 4.3	3 21028		421.		0.63	5.18	877.9			01	44023
UG012189_r_17	39780	<333.496	0.46	0.04	0.07	0.0	7848	0.10		565.5	83.5 4			3 28209		709.		3.99	4.21	739.7	0.3		-	07646
UG012189_r_18	41476	272	0.15	0.09	0.08	0.0	14499	0.04					0.16 6.5			570.	34.18	0.98	3.25	568.1	0.5		4	170938
UG012189_r_19	4463	<251.195	2.02	0.18	0.14	0.1	11081	0.13	17.3				1.11 7.9	_		523.8		3.61	5.22	1506.1	0.0		···	569263
06012189_r_2	04.	<293.250	00	40.0	\$00.00 600.00	<0.000 0.000	6233	<0.021	0.7		_	313.1 <0.0				385.		0.00	4.32	202.2	0.0		ກ (	28883
UG012189_r_20	132	<341.641	0.28	<0.013	<0.010	<0.007	6011	0.03	22.4	_	`		0.07 0.2			475.		0.45	3.82	636.0	1.0	•		589429
UG012189_r_21	243	<277.805	4.7	0.30	0.19	0.1	9183	0.25	21.9	_	· .		2.18 6.7	1850		566.		2.01	2.38	753.8	4.4		198.8	585178
06012189_F_3	242	4187.815 252	0.06	<0.008	\00.00\ 0.00F	40.004 0.1	0664	0.09	0.0. 0.0.	67.1	10.4	0 0.503.0	105 0.8	3 <350.203		456.7	14.51	87.5	75.4	1438.b	o	0.03	n 4	526040
UG012189 r 5	7276	358	1.96	0.13	0.11	0.0	10746	0.24	(*)	_			1.06 6.2	17940	0.33	583.5	39.31	6.50	5.66	1091.3	t 9:0		2 0	51401
UG012189_r_6	538	<123.588	09:0	0.03	0.01	0.0	22900	0.02	,		301.2	911.9 0	0.43 5.0	2015	0.02	428.6	3 21.55	2.98	3.92	729.3	0.2	0.05 2		573464
1	*	*All elements are in ppm.	nents a	re in t	opm.																			

Appendix C: Eastern Sunda arc rutile trace element chemistry (LA-ICP-MS)

Analysis ID	₹	Ca	e5	Dy	Ē	B	Fe	P9	ŧ	Mg	Mn	qN	PN	Pb S	ïS	Sm	Sn	Ta	T.	_	\ \	Yb	<b>Z</b> q	_	
UG012189_r_7	21652	<156.346	1.02	0.04	0.02	0.0	8641	0.05	12.0	189.8	17.0	442.4	0.68	3.4	2992	0.11	406.5	86.9	1.99	4.51	521.1	0.2		348.5 5	56289
UG012189_r_8	3439	<129.909	2.16	0.07	0.07	0.0	11846	0.04	11.5	166.7	73.6	403.1	0.84	1.5	8873		537.8	9.73	4.07	4.67	832.3	_			570548
UG012189_r_9	189	<118.729	0.21	<0.005	0.01	0.0	11181	0.02	17.4	98.0	98.2	411.6	0.11		1344	~	460.6	13.85	0.47	3.91	496.9	·	900:0>		586078
UG012191_r_1	1726	382	7.99	5.17	4.58	0.8	3680	3.16	22.8	98.5	48.1	292.4	4.56		2598	~	140.5	7.32	7.70	7.41	310.3				588806
UG012191_r_10	1073	<116.659	2.61	09.0	0.49	0.1	2414	0.35	15.9	100.3	161.2	407.6	1.15		820	0.26	0.996	26.07	8.83	12.29	1707.1	3.5	_		589480
UG012191_r_12	1074	<127.992	2.29	0.32	0.26	0.1	3348	0.15	23.1	100.7	30.9	535.5	1.08		10634	_	232.0	40.88	6.67	_	403.3	1.7			78889
UG012191_r_13	1094	<122.140	2.00	0.70	0.28	0.2	4215	0.82	6.6	93.6	79.8	294.8	2.51		1387		1197.4	13.02	5.25		4227.9	2.5			35356
UG012191_r_14	3393	<133.222	0.99	0.11	0.22	0.1	2914	0.09	26.6	311.6	53.0	69.4	0.40	12.0	13923	60:0	315.1	4.08	0.87		1067.5		0.42	457.6 5	571765
UG012191_r_15	309	<127.297	2.53	0.19	0.11	0.1	3885	0.25	11.6	95.7	87.2	349.9	1.22		200		1012.0	18.57	0.95	5.49	1439.6				90815
UG012191_r_16	4718	<130.891	0.84	0.13	0.11	0.0	2803	0.16	30.9	132.7	17.7	338.9	0.36		8240		342.1	14.69	0.77		253.7				78275
UG012191_r_18	317	<113.887	<0.002	0.01	<0.005	<0.003	2914	<0.012	25.8	85.4	<1.710	120.1	0.01		217		2252.6	3.72	0.31		2106.0	0.1			589811
UG012191_r_19	756	256	2.91	1.31	1.88	0.2	2747	0.57	29.1	7.76	119.8	261.7	1.19		1091	0.44	97.2	7.75	3.51				_		91455
UG012191_r_20	882	<118.144	0.75	3.28	5.04	0.2	4590	1.12	41.9	101.9	170.9	797.0	0.52		802	_	255.4	1.6	4.09						90221
UG012191_r_21	784	<133.301	4.68	2.28	2.33	0.3	2629	1.07	23.2	94.9	22.5	533.5	2.23		1327	0.42	323.9	25.73	5.17			13.6		-,	590851
UG012191_r_22	332	<142.954	0.08	<0.008	<0.006	0.0	2734	<0.015	22.1	88.8	<2.123	300.5	0.04		<276.722	_	445.0	79.7	0.28				_		593097
UG012191_r_23	2229	<150.423	3.12	0.62	0.40	0.2	3888	0.66	13.6	87.3	182.3	622.4	1.19		532		1077.7	24.97	4.88				0.43		586552
UG012191_r_24	232	<130.417	1.31	0.15	0.14	0.0	2527	0.20	13.3	87.2	30.8	378.6	0.65		<250.951		270.2	33.87	0.78		266.1	1.0	_		93691
UG012191_r_25	14060	<160.505	1.86	<0.008	90.0	0.0	3903	0.03	21.7	166.6	18.5	322.1	0.49		11701		277.9	8.19	1.47				_		33766
UG012191_r_26	16166	7418	35.28	4.56	1.56	3.1	2348	7.39	13.2	2.06	33.6	515.8	27.97		3860		460.9	21.75	9.88						33631
UG012191_r_27	297	150	5.34	3.34	2.54	0.7	2537	1.74	12.0	93.1	51.3	294.3	2.55		<241.086		100.3	8.57	2.80			16.8			593369
UG012191_r_28	1299	<119.404	1.44	0.10	0.09	0.0	2822	0.04	12.3	104.3	13.1	287.4	0.42		673		456.4	16.40	2.84						591344
UG012191_r_3	342	<274.550	0.01	<0.012	<0.009	<0.006	3899	0.03	25.8	84.4	<3.740	155.9	<0.020		1159		1744.7	4.22	0.08						38294
UG012191_r_3	1426	947	5.23	2.37	2.59	0.3	3133	1.43	27.3	148.0	50.2	267.1	2.54		2423		113.9	7.01	5.58						38617
UG012191_r_4	5289	<128.787	2.48	3.57	5.49	0.3	2883	1.48	33.7	92.4	51.5	372.3	1.24		982		230.9	9.02	4.11						586782
UG012191_r_5	891	<118.855	0.01	<0.006	<0.005	<0.003	3077	0.01	9.6	373.3	<1.782	34.5	<0.011		1166		1208.4	0.42	0.90						588825
UG012191_r_6	3260	<149.666	1.52	0.24	0.08	0.1	4532	0.23	23.5	92.2	11.4	1016.1	0.57		<295.214		289.9	30.16	1.41						89083
UG012191_r_7	2777	<125.582	0.54	0.02	0.03	0.0	6181	<0.013	17.7	939.5	421.2	211.3	0.13		3505		9.085	10.47	4.59		503.3				82330
UG012191_r_8	320	<118.888	0.27	0.04	0.02	0.0	3490	90.0	28.4	97.8	106.6	280.0	0.14		719		344.5	8.14	0.95		275.8			-,	591881
UG012191_r_9	3085	<124.445	1.59	0:30	0.27	0.1	4451	0.28	29.3	139.7	39.3	1846.1	0.83		3941	0.32	288.2	145.38	3.61		731.5			359.7 5	583563
UG012192_r_1	298	<131.770	0.16	0.05	<0.006	0.0	3617	0.0	12.8	103.8	32.7	199.5	90.0		<249.214		682.7	8.55	5.51		2560.2				37202
UG012192_r_10	209	<152.457	0.26	0.02	0.04	<0.004	3536	0.05	14.0	140.6	13.7	236.7	0.16		491		745.3	7.26	10.36		2147.8				37611
UG012192_r_11	2582	<128.991	0.17	<0.007	0.01	0.0	2197	0.03	24.0	91.2	<1.796	184.8	0.01		2900		9.905	8.07	1.92		320.4				583654
UG012192_r_12	964	<141.890	0.13	<0.007	0.01	0.0	1340	0.02	5.2	325.7	4.2	111.7	0.08		1217		350.6	2.45	3.51		1003.4				87939
UG012192_r_13	5875	214	1.01	96.0	0.24	0.3	229	0.97	2.8	90.1	<2.647	276.3	1.33		8467		526.4	17.60	18.30		1244.2				572397
UG012192_r_14	3683	<124.943	20.65	1.66	1.44	9.0	4696	1.41	22.6	207.7	25.7	919.6	8.41		4171		704.5	41.75	30.56		928.3				79124
UG012192_r_2	903	302	0.35	<0.008	0.01	0.0	1639	0.02	20.5	114.1	3.3	825.0	0.19		10774		6.673	41.17	5.48		366.8				574407
UG012192_r_3	4468	<124.725	9.69	1.27	0.81	0.4	1975	1.42	8.4	185.6	15.9	492.7	6.07		7526	1.47	193.3	30.76	7.13		507.0				76365
UG012192_r_4	296	<120.965	10.79	5.	0.68	0.4	3177	1.48	<del>-</del> :	112.3	29.6	1871.8	6.92		1664	1.76	373.0	68.52	9.75		1390.1			202.0 5	85924
UG012192_r_6	3188	<133.639	7.29	1.10	09:0	0.3	2117	46:00	7.9	126.2	25.7	1880.7	3.20		1496	0.81	433.6	89.01	11.58	14.41	685.0	5.4	25. C	-, -	581388
00012192_1	2 6	040.00	0.03	0.0	0000	0.0	0107	1 000	2.7	7.000	1 .	1029.1	50.0		900	5.0.0	0.027	17:07	5 6		7.00.7				00000
UG012192_r_8	60/	<143.683	0.26	0.01	90.00	<0.003	4916	80.0	21.7	217.5	1/4.1	2/1/5	0.06	, o	221	0.02	530.6	20.00	0.66		455.5	0.1		520.9	286372
06012192_1_9	1000	×140.965	0.30	0.00	0.00	50.003	6007	20.0	<u>4</u>	07.7	± 100.	- 701	0.2		004	20.013	020.	9.00	0.70		0.201				00000
UG012194_r_1	7871	<290.248	7.32	0.80	97.0	0.3	3829	ς 	6.2.9	93.7	U. 4. 0	145.2	3.74	0	20.7	4	92.7	0.40	3.3/	7.72	40.8		0.42	.,	20202
UG012194_r_10	21/2	<307.422	13.27	¥ 5	1.26	0.3	41//	62.1	50.9	96.5	7.22.7	790.5	5.20		1254	1.06	201.1	38.24	97.0		1256.5	χ, α Σ, α	7.1.	.,	288370
0601219411	/sans	<355.430	95.7	\$ ;	1.17	0.0	440	67.	8.2	4.00	10.5	4.0.1	3.89	χo -	07870	40.1	- 60	12.7	0 !	10.74	46.5	8.2	08.1	203.3 4	0000
UG012194_r_12	1317	<286.178	0.01	0.04	<0.009	<0.005	5377	<0.020	10.7	86.0	3.7	173.4	<0.019	0.1	646	90.0	202.4	9.47	0.15	37.26	2385.2	0.0	0.03	4,	989620
UG012194_r_13	24385	<347.538	47.11	6.74	4.81	1.2	2352	5.20	8.9	259.8	33.2	236.6	19.57	7.8	34329	3.81	139.7	10.43	15.05	16.30	109.3	36.8	4.12		523986
UG012194_r_14	3964	<310.684	102.51	11.22	5.99	2.9	1537	11.27	6.5	130.4	59.6	479.9	48.74	21.5	5113	10.92	278.1	16.81	29.09		169.3	56.4	5.72	~ -	84206
UG012194_r_15	12656	<355.597	2.28	44.0	81.0	0.2	3366	0.28	24.4	1078.1	92.6	113.2	1.59	5.7	1091	0.32	529.1	5.73	4.51	30.18	891.4	× .	79.0		558310
UG012194_r_2	2764	435	125.75	18.96	11.77	3.3	2208	14.42	5.5	162.8	46.6	462.7	52.05	26.3	4381	11.22	396.5	25.11	21.28	13.18		0.00	10.21	87.4 5	385498
	K-	*All elements are in ppm.	nents :	are in	ppm.																				

Appendix C: Eastern Sunda arc rutile trace element chemistry (LA-ICP-MS)

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Analysis ID	ΑI	Ca	Ce	Dy	Er	Eu	Fe	Gd	Hf	Mg Mn		Nb dN	d Pb	Si	Sm	Sn	Та	Th	n	×	٨	Yb	Zr	E
UG012194_r_3	3593	<132.847	5.33	0.58	0.37	0.2	2746	0.65	5.7	110.9	0							5 7.09	3.51	238.1	2.6	0.33	9.08	584435
UG012194_r_4	1155	235	33.56	5.45	4.39	1.3	1837	4.81	17.6	105.2	(0						•		9.38	196.7	30.8	4.95	405.9	590183
UG012194_r_5	2061	509	8.02	1.15	0.79	0.2	2409	0.93	14.3	152.9			3.72 8.2					5.24	20.16	112.5	5.3	0.68	385.1	586108
UG012194_r_6 UG012194_r_7	5423	177	7.07	0.69	0.57	0.3	4120	0.55	21.2		13.4	492.3	3.12 9.6	1316	107	5 222.4	4 46.53	6.13	35.92	1156.8	9. E	0.45	500.9	584905 588711
UG012194_r_8	4045	1941	107.70	12.97	9.15	3.1	1118	10.76	4.6				۵				.,		20.05	183.4	0.79	9.40	63.8	584777
UG012194_r_9	3163	<307.671	37.26	4.74	2.88	4.	2275	4.17	4.8								.,		12.31	195.2	21.2	2.73	73.1	576889
UG012199_r_1	1272	<292.530	2.83	0.40	0.31	0.2	3427	0.44	2.5					_					1.73	7.77	1.9	0.15	39.1	587553
UG012199_r_10	828	<147.615	21.36	1.03	0.54	0.5	22550	1.96	8.0					7.1 7.1					3.35	313.1	4.3	0.52	61.3	575084
UG012199_r_11	896	<150.391	8.66	0.89	0.45	0.3	937	0.97	0.0										4.25	833.0	4.5	0.64	83.2	572525
UG012199_r_12	90, 2	<353.366	15.69	0.82	0.25	0.3	915	1.61	5.7				. •						5.14	270.8	2.9	0.20	34.0	591211
UG012199_1_2	1389	<282.070	000	5 6	0.33	t 6	1 009	4. c	o «				5.48 6.0						5.41	413.7	0.0	0.30	40.3	584262
UG012199_r_4	1228	154	12.76	0.89	0.53	0.3	1540	1.34	5.2	87.5	13.9	479.9				2 168.8	3 13.52	5.57	3.46	163.4	5.1	0.52	52.4	590395
UG012199_r_5	782	156	27.10	1.42	0.75	0.4	801	2.39	6.1				5.31 4.0	_					5.23	231.8	6.3	0.53	56.5	591326
UG012199_r_6	1102	<282.250	26.55	1.40	0.70	0.3	1021	2.54	4.6										4.86	126.4	9.9	0.59	55.4	590873
UG012199_r_8	761	<287.825	37.96	2.90	1.31	0.5	72301	4.84	6.2										4.78	370.4	13.3	1.35	87.8	535648
UG012199_r_9	682	<291.320	18.35	0.52	0.34	0.4	14265	1.41	5.8										4.24	229.1	2.7	0.30	71.7	580465
UG012200_r_1	309	<137.462	3.23	0.30	0.19	0.1	774	0.29	7.2										5.60	1627.1	1.6	0.30	135.7	587318
UG012200_r_10	2726	<132.289	2.64	0.31	0.19	0.1	2630	0.42	10.0										7.99	5178.8	1.6	0.15	104.0	582528
UG012200_r_11	301	<131.652	06:0	0.08	0.05	0.0	878	0.04	9.6							9 272.3			1.87	1252.0	0.3	0.10	64.5	589105
UG012200_r_12	314	<144.777	2.63	0.27	0.19	0.1	422	0.30	9.7										4.66	933.6	1.5	0.24	114.3	588218
UG012200_r_13	293	<149.068	0.81	0.11	0.10	0.0	1634	0.11	26.7							5 531.2			14.05	6736.2	0.8	0.13	419.2	580383
UG012200_r_14	476	162	2.35	0.13	0.13	0.1	1058	0.28	15.7										3.45	2828.0	0.8	0.16	170.8	585825
UG012200_r_15	1073	297	3.96	0.11	90.0	0.1	876	0.36	10.4										7.59	3527.4	0.3	90:0	133.8	583486
UG012200_r_16	1437	406	4.46	0.27	0.22	0.2	1651	0.69	11.0										4.70	3564.7	1.2	0.19	108.4	582307
UG012200_r_17	366	<177.512	2.90	0.34 \$4. 1	0.17	0.1	292	0.18	0.9										3.73	762.5	1.0	0.14	69.2	589100
UG012200_r_18	237	<143.491	2.77	0.24	0.18	0.2	660	0.26	0.8										4.32	1158.7	2 5	0.21	141.8	588127
UG012200	± %	413	90.90	0.65	0.75	2.0	758	27.0	9 4										7.55	662.2	- 2		64.5	581836
UG012200 r 20	912	<163.560	3.08	60.0	0.16	100	909	0.48	5. 4										4 43	1277.3	. 6	0.23	5 5	587528
UG012200_r_21	647	<163.718	2.74	0.24	0.13	0.1	1068	0.21	5.2	96.8	18.4		1.79 8.0	3.0 792		3 348.9	30.74		2.73	1126.2	8.0	0.16	55.4	588537
UG012200_r_22	389	<145.311	1.28	0.07	0.03	0.0	949	0.07	11.2										3.77	1620.2	0.3	0.04	174.5	587865
UG012200_r_23	496	<177.722	1.97	0.17	0.06	0.1	787	0.20	13.0										3.32	1941.8	9.0	0.14	153.2	587338
UG012200_r_24	669	<147.861	1.40	0.37	0.18	0.0	2233	0.44	18.9										12.70	5579.2	1.8	0.12	237.8	582140
UG012200_r_25	759	<145.735	1.41	0.30	0.15	0.1	2167	0.22	27.2										13.65	4676.2	1.4	0.46	389.4	584294
UG012200_r_26	283	<153.053	4.30	0.48	0.58	0.2	731	0.61	6.1							2 422.5			6.04	1666.9	3.2	0.59	97.6	588166
UG012200_r_27	629	<151.455	1.28	0.06	0.04	0.0	1103	0.12	12.9			592.3 C	0.60 3.7	1.7 <241.730 1.6 011					3.60	1719.8	4.0	0.12	186.5	586648
UG012200 r 29	617	<177.036	4 17	0.00	0.35		890	0.82	. 9							395.1			4 12	1255.4	2.3	0.43	4 26	587780
UG012200_r_3	242	<126.493	2.70	0.42	0.32	0.1	735	0.51	7.8							,	_		4.07	686.2	1.6	0.27	87.1	586999
UG012200_r_30	298	1178	1.35	0.14	0.12	0.1	549	0.25	14.7							•	_		4.46	1660.7	7.0	0.15	242.8	586138
UG012200_r_4	2975	<143.026	09:0	0.16	0.12	0.0	4371	0.10	32.9		-,						5 15.45		23.60	6812.8	1.2	0.23	506.6	580635
UG012200_r_5	3683	237	4.36	0.29	0.11	0.1	829	0.44	6.7		•	_				.,	_	30.06	2.69	1576.6	1.0	0.16	2'.29	580550
UG012200_r_6	2061	302	1.98	0.12	0.08	0.1	1374	0.17	9.2	99.2	.,		_	_		.,	01		4.50	3016.5	9.0	90.0	116.5	583452
UG012200_r_7	641	<122.314	1.55	0.11	0.08	0.1	826	0.14	9.1		••	6	0.89 3.	1275		,-	5 11.59	3.17	5.46	1294.7	0.5	80.0	151.5	584560
UG012200_r_8	435	<129.102	1.77	0.64	0.93	0.1	1516	0.43	21.3	_	•	~			٥.	.,	7 45.48	5.76	14.31	3859.7	5.9	1.89	559.7	582064
UG012200_r_9	1322	190	7.23	0.34	0.24	0.2	730	0.57	2.7	_	107.7	261.5	2.91 12	.0 168	_	(,)	9 12.07	2.57	2.73	780.5	2.0	0.24	71.4	586044
UG012201_r_1	1918	<306.292	0.1	0.27	0.04	0.1	3417	0.25	49.7		.,	378.4	0.72 0	30,	2 0.2	194.7	7 16.14	5.21	29.25	742.5	9.0	0.20	288.3	584669
UG012201_r_10	3147	<312.795	1.40	0.08	0.05	0.0	1794	0.24	22.3	126.0 <3	•	269.1	0.93	1.8 27.	23 <0.022		3 12.32	2.11	23.80	701.3	0.5	0.04	700.1	586319
	*AII	*All elements are in ppm.	nts are	e in pp	m.																			

Appendix C: Eastern Sunda arc rutile trace element chemistry (LA-ICP-MS)

Analysis ID Al	ឌ	3	ð	ù	E	e E	8	¥	Mg	u N	pN	æ	Ø	w <sub>S</sub>	u S	Ta	£	ם	×	>	χp	,	F
UG012201 r 2 5594	4 <294.769	0.38	0.08	0.05	0.0	3467	90:00	36.0 2	2	<3.730 3	7.0	0.17 0	0.2	10351	0.04 208	3.2	2.11	24.91	577.8	0.4	0.17	1017.7	571690
		0.04	<0.011	0.02	<0.005	4537	<0.020												5448.4	0.1	<0.012	549.5	586501
UG012201_r_4 2301	11 <347.977	0.57	0.04	0.05	<0.007	4005	<0.025		•				0.2 <608				37 1.66	30.47	6612.1	0.2	0.25	1221.6	584222
UG012201_r_5 3387	Ċ		<0.013	<0.010	<0.00>	2777	<0.024					0.06 0	3 5.0						944.4	0.1	<0.014	675.2	584334
9		20.08	2.86	1.92	0.8	2484	3.25	•		_	•	13.35	1.2	_					1010.0	15.5	1.89	570.8	589482
		0.44	0.22	0.10	0.0	1236	90:0	33.9							<0.023 130	130.7 25.63		17.50	911.2	0.5	0.15	829.2	583573
		5.02	0.53	0.29	0.1	3496	0.46						_						2913.7	2.4	0.15	467.3	585099
L N	<397		0.38	0.10	0.1	2105	0.31						~						1120.2	1.7	0.05	558.4	588341
			0.33	0.25	0.1	631	0.26				_	2.68 5		_				6.65	2438.1	4.8	0.52	302.7	583172
			92.9	4.37	6.0	202	5.34	•					_	_					3479.4	32.3	4.26	625.6	581881
		15.53	1.72	0.99	0.4	294	1.48	33.2											2797.9	9.7	1.14	461.2	578558
UG012202_r_4 608		5.21	0.65	0.72	0.1	398	0.48						<b>m</b>		•	_	_		1918.3	3.7	0.56	393.1	580782
BHF-02 r1 1;	12 <159.273		0.02	<0.002	0.0	6233	0.04	4.5	81.7	2.6		0 60.0						8.27	400.7	0.2	90.0	80.4	591786
BHF-02 r2 2	21 <277.612		0.01	0.01	<0.002	2003	<0.009	7.5					<504	_					1119.2	0.1	<0.005	164.8	591092
BHF-02 r3	3 <294.270		0.03	<0.004	0.0	6564	<0.009	2.6	_					V				11.09	114.0	0.1	0.03	110.5	592112
	<288		0.14	0.20	0.1	6183	0.28		V								_	7.47	142.3	0.0	0.11	80.7	592476
••			10.79	4.	0.2	3940	5.15	_	_			11.84 81.0		4346		28.1 24.97	_	7.51	98.6	53.8	16.02	823.4	585246
			0.22	0.14	0.0	3010	0.20	4.9		8.9		0.82 16						2.27	102.6	1.0	0.24	6.66	592641
		•	0.91	0.49	0.5	8300	1.49	3.5						_				14.99	528.9	6.5	0.64	44.0	586722
			1.06	0.49	0.2	9863	<u>4</u>	4.6						_		108.0 20.54			263.5		0.54	96.9	588575
BHF-03 r14 118			0.43	0.46	0.1	3322	0.17						_						9.5		0.80	94.9 9.	594696
BHF-03 r2 2	28 <134.989		0.08	0.07	0.0	2688	0.09	_	83.4				e		0.05 214	214.6 26.3	88 0.08	9.63	640.8		0.05	98.3	592789
			0.29	0.02	0.0	6329	0.12							1355					316.0		<0.008	130.4	591034
			0.64	0.63	0.1	3313	0.39	9.7		11.0		1.07 29.1				7.7 29.54	4 2	7.33	104.5		0.85	180.1	593316
	v	08.7	7:27	2.48	0.2	4234	1.51	ν.									,	5.26	32.9	12.8	4.22	72.9	018069
10.		<del>~</del>	38.87	25.65	3.2	4733	33.70	3.4			297.5 118	~		29170 3		18.3 22.43	. 4	7.03	24.2	•	25.39	73.6	373324
	87		0.07	0.02	0.0	0210	90.0	0.4				•			0.04			27.12	9.4.9		0.08	D 0	280882
DEP-13 F9 1080	30 1429	\$ £	2.45	2.42	9.0	1817	21.7	0.4	107.0	20.6		,		40/4		740 4 18.30	50. 40. 50. 50. 50.		512.0	18.2	4.00	25 G 25 G	118080
			2.70	2.00		1170	2.5										_		2470.0		2.7	0.50	2007.07
			00.1	9.40	<u>,</u>	2000	7.02			0.01									25.00.4		0.01	- 102	506041
			0.37	0.34	ž: 0	2002	0.35		155.9			183		2954			2 2.30	9.29	2857.7	0.0	0.57	20.5	580851
	<142	·	3.15	2.91	9.0	1947	2.58	. (0											3045.1	17.9	3.70	61.1	590668
GBF-01 r14 8318			0.02	0.01	0.0	1111	<0.003												1452.5	0.1	0.05	15.7	562644
GBF-01 r15 502		17.18	1.57	1.13	0.4	1527	<del>1</del> ,		150.4	20.8	193.3	9.96	4.					15.52	2311.7	8.2	1.27	53.1	590203
GBF-01 r16 175	75 <143.542	35.66	5.96	4.69	<del>1.</del>	1447	4.85					17.81	<u>~</u>			197.8 8.33	33 5.83	21.06	2705.7	33.4	5.12	49.3	585399
GBF-01 r17 242	12 <160.800	22.45	2.48	2.11	0.7	1191	2.37			.,		0.60	9.0					.,	2744.2	14.6	2.15	70.1	588732
GBF-01 r18 116	157	0.91	0.09	0.08	0.0	442	90.0					0.42 0	.3	246	0.05 108		58 0.19		405.7	0.4	0.11	23.6	589814
GBF-01 r19 9-	94 <134.476	5.06	0.35	0.27	0.1	1215	0.28					2.53 0	7.0						4636.2	2.1	0.46	103.2	580269
GBF-01 r2 7:	73 159	27.55	4.77	3.86	6.0	1257	3.01					14.18	.2			•	27 2.60		2819.7	27.2	4.78	44.0	584309
	<13,		3.20	2.44	9.0	1225	2.34	,				11.59	1.7					25.28	2526.8	16.2	3.02	61.0	586940
GBF-01 r21 542		-,	11.40	9.55	1.6	1956	7.20	•				29.84 2	5.8					1.54	3737.5	67.2	11.84	62.6	587787
			0.68	0.54	0.2	1625	99.0					4.05 2	2.2						4020.4	3.9	0.59	44.5	587388
GBF-01 r23 137	×14(		2.06	1.36	0.4	1199	1.40	8.8	93.2			7.44 0	9.0			•		18.72	4392.0	6.6	2.05	63.9	585094
GBF-01 r24 43	39 217		5.48	3.78	1.2	686	5.16	4.4	102.8			21.91	5.	834				19.66	4444.6	26.6	4.09	40.3	587174
			2.14	1.64	0.5	762	1.51	9.4		•		6.94 0	9.0	736	•		3.06	15.80	1872.3	10.8	2.17	63.5	583388
	<133	_	2.31	1.90	0.3	2311	2.10	7.8				7.79	1.5	476	•	165.6 14.46	16 2.70	11.98	3438.5	11.8	2.13	22.0	290987
			0.14	0.13	0.1	1814	0.15	•			90.8	0.88 2	2.7	412	0.16 311	311.9 8.(	1.51	22.97	5758.0	0.8	0.13	61.1	585043
			0.14	0.10	0.0	1560	0.10	•	116.6	12.8	37.3	0.70	7.(	1614	0.09 50	506.5	00.1	80. 0 20. 1	6149.7	9.0	0.09	97.4	584161
GBF-01 r29 1496	36 <129.345	2.20	0.43	0.24	0.1	4099	0:30	11.0	108.3		117.7	1.25 (	7.(	1916	0.25 28.	0.4 8.3	33 1.13	9.11	17212.2	1.7	0.40	84.0	572337
	*All elements are in ppm.	ments a	re in p	pm.																			

Appendix C: Eastern Sunda arc rutile trace element chemistry (LA-ICP-MS)

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Analysis ID	¥	Ca	Ce	Dy	ù	En	Fe	В	¥	Mg M	Mn Nb	pN c	Pb	.is	Sm	Sn	Та	£	n	M	<b>.</b>	Yb Zr	Ξ	
GBF-01 r3	710	<141.840	0.13	0.01	<0.002	<0.001	2638	0.01	22.9	93.1		561.2 0.04	24 0.2		5 0.01	976.4	11.65	0.14	14.92	19085.9	0.0		92.1 56	7632
GBF-01 r30	1014	<146.760	1.96	0.38	0.28	0.1	1620	0.16	10.9	107.4			22 0.4	4 1055		315.5	10.28	0.52	3.88	4078.2	2.0	0.37		286957
GBF-01 r31	762	<141.377	9.31	1.51	1.43	0.3	2728	1.09	8.2	95.7			7.	1 280		298.0	6.13	1.09	17.04	6490.6	8.1		70.0	587486
GBF-01 r4	383	<155.533	4.62	0.74	0.54	0.2	1625	0.59	2.7	117.2			11 0.6	6 11572		163.7	5.20	1.82	17.41	2639.6	2.9		٠,	576946
GBF-01 r5	394	<146.712	17.61	3.23	2.65	0.4	2004	2.27	6.7	98.4				<23		190.0	8.75	3.54	18.27	3216.3	17.8		-,	591796
GBF-01 r6	1708	<150.498	0.15	0.02	0.02	0.0	2143	<0.004	8.5	174.8			2.1		_	517.0	99.9	2.12	24.72	7431.4	0.1			579071
GBF-01 r7	955	220	11.71	1.40	0.97	0.3	1317	1.06	7.6	109.0	24.0 17	173.0 5.83	33.	8 2090		176.0	17.54	1.78	15.02	3012.2			58.4 56	84362
GBE-01 rs	9011	730 186	32.73	24.42	3.24	6.0	1850	3.1.5	, d	145.7			S &	7 1863	3.40	164.2	17.52	4.04	19.40	3305.8	73.Z	79.5		500.108
GBE-03 r1	107	<160.247	5 -	103	0.77	5. 5	13751	0.74	- e	170 5						228.8	4 83	0.57	25.55	20000				583782
GBF-03 r10	421	566	23.90	4.55	197	; <del>,</del>	3553	5.01	5 6	109.0		^	_			1763	2.95	2.00	12.50	228.5	17.6		25.0 56	590912
GBF-03 r11	3137	243	2.46	0.58	0.19	0.1	5780	0.46	- w	488.8			20	4		152.2	7.54	1.32	22.83	1909.8	2.5			1386
GBF-03 r12	1114	<151.664	1.66	0.28	0.12	0.1	6167	0.35	0 00	319.1						169.2	6.01	1.03	12.73	1148.5	8.0			586862
GBE-03 r13	566	<161 428	127	0.39	0.23	0	11555	0.21	2.6	115.8						147.4	4 41	106	19.46	32643	2.0			4392
GBF-03 r14	619	270	13.48	1.10	0.50	9:0	6827	1.26	. 6	123.0	_					466.4	1.87	0.71	13.66	5069.8	3.2			585750
GBF-03 r15	3750	<180.076	1.15	0.25	0.16	0.1	7504	0.21	3.9	4560.9						103.8	2.77	0.31	19.88	507.3	<del>[.</del>		62.1 57	577409
GBF-03 r16	182	<143.855	15.92	5.75	3.94	1.0	14016	5.36	3.7	131.8				<22		178.3	3.07	0.74	20.19	3070.8	28.9			4404
GBF-03 r17	142	444	0.34	0.11	0.09	0.0	9377	0.11	0.9	150.0				·		305.9	1.57	0.08	34.96	3919.3	9.0			587212
GBF-03 r19	62	<202.009	1.87	0.25	0.19	0.1	12619	0.42	6.9	7.78			4	9 <318.729	_	134.1	1.86	1.03	19.43	1684.9	1.6			585951
GBF-03 r2	460	<216.613	13.97	2.32	2.08	0.5	2593	2.88	7.8	303.6				8 2257		80.4	5.41	1.22	18.24	1931.5	11.9			2669
GBF-03 r20	9914	399	12.36	2.40	1.42	0.5	17219	2.87	8.4					7 13042		196.7	2.89	1.12	13.63	1496.0	10.5	1.42 8		553022
GBF-03 r21	188	<156.910	0.85	0.10	90.0	0.0	5691	0.02	6.2	232.8		139.1 0.66	36 8.0	0 503	3 0.15	218.5	6.26	0.79	21.30	2462.7	9.0	0.10		589026
GBF-03 r23	17629	1154	16.38	2.30	1.19	0.5	5937	2.80	5.0	355.3				4 28923		119.7	2.76	1.28	10.01	366.4				535035
GBF-03 r3	5382	<168.846	4.49	0.62	0.39	0.1	7204	0.86	5.4	181.2		73.2 4.21	2.5	5 7633		226.5	4.66	0.78	10.84	1901.4				574589
GBF-03 r4	9028	54	37.29	13.75	8.13	1.9	3738	11.64	6.1	889.2	•	•	24 1964.3	3 13314		215.2	4.56	1.23	13.72	494.8				558485
GBF-03 r6	1486	260	7.39	1.76	1.07	0.3	5222	1.07	4.3	1534.8			35 54.1		0 1.87	69.4	1.43	1.23	8.76	231.6	6.3			585004
GBF-03 r7	868	<173.284	9.67	2.68	1.30	9.0	6226	2.56	6.3	185.6						124.5	6.03	0.92	23.24	4462.3				585638
GBF-03 r9	1445	197	2.87	0.73	0.43	0.2	5564	0.64	6.9	500.0		116.8 2.04	34 132.4	4 3243		139.0	4.97	1.02	29.42	1342.3			92.3 58	585882
JEM-01 r1	199	<191.113	0.75	0.07	90.0	0.0	6249	0.16	10.5	87.1				<297	_	229.6	10.77	0.26	21.72	1695.3				2011
JEM-01 r10	346	<151.529	0.48	0.12	0.04	0.0	28857	0.07	7.9							323.6	13.75	0.72	28.98	3369.4				289690
JEM-01 r11	86	<358.067	0.02	0.02	<0.004	<0.002	4489	<0.010	2.5			∀				160.0	8.8	0.01	16.25	237.3				594016
JEM-01 r12	11	<341.551	0.40	0.05	0.04	0.0	6065	0.09	8.7			166.1 0.23		<56		266.1	11.19	0.47	19.14	511.7				592601
JEM-01 r13	252	197	0.22	0.10	0.03	0.0	5312	0.15	12.6	110.2						313.8	8.59	0.10	15.97	487.3				12662
JEM-01 r14	116	<184.929	0.92	0.13	0.13	0.1	2060	90.0	8.0	93.4	4.5 27			<285		101.2	10.75	0.27	7.11	136.3			115.6 59	594322
JEM-01 r15	<del>1</del>	<208.718	0.28	0.05	0.05	0.0	5149	90.0	5.3	4.1						322.3	16.72	0.14	22.38	2368.6				591769
JEM-01 r16	140	406	0.36	0.05	0.03	0.0	5338	0.28	6.9	9.68			20 0.9		⊽	235.2	9.86	0.59	18.24	435.5		0.01	272.6 58	592014
JEM-01 r17	436	<143.327	0.16	0.01	0.01	0:0	5340	0.03	10.3	93.6	15.4	52.0 0.04	7. 7.	1151	1 0.02	273.0	4.25	0.31	17.20	277.4	٠.			592060
SEMI-OI LIS	0 10	~325.636 046	0.30	0.00	20.0	0.0	0417	0.00	10.2	- 00.7			<u> </u>	9 5333.91		0.202	4.0	0.0	60.12	0.004			20.0	2003
JEM-01 r2	335	243	0.57	0.08	0.04	0.0	6/6/	0.05	7.01	971.6	41.5 61.0	156.5 0.42			0.01	273.0	20. 6	0.45	36.19	5520.3	7.0			587,007
JEM-01 r20	8 6	<330.341	0.13	0.01	0.05	<0.002	5010	0.00	ο ο ο ο	82.9						308.0	18.57	44.0	32.17	1302.0				291/43
JEM-01 rZ1	120	<172.008 75.4	0.87	0.10	11.0	0.0	9619	0.05	D 0	85.3	15.3 20	205.2 0.31	31 0.6	6 <264.581	70.00	166.2	14.18	0.94	24.80	1/96.6	_		240.3 58	592391
JEM-01 122	148	216	0.70	0.05	0.20	- 0	3603	0.40	0.6	87.8						273.4	15.18	0.06	15.89	831.0				589109
JEM-01 r24	= =====================================	<152.917	0.70	0.21	0.09	0:0	5274	0.16	. 6	88.8			34 1:			277.4	5.49	0.62	17.97	701.4	8.0			592308
JEM-01 r25	1545	<158.544	0.36	0.08	0.05	0.0	5833	0.04	15.6	117.7						202.2	17.81	0.43	28.88	2413.7	0.2	•		586183
JEM-01 r26	256	<175.297	0.80	0.08	0.02	0.0	5425	0.03	9.6	100.4	4.8 32	322.3 0.61	3.1 0.8	8 4262	2 0.07	304.6	16.89	0.42	23.84	1997.0	0.4		227.3 58	586283
JEM-01 r27	137	<162.260	0.26	0.01	0.02	0.0	7120	0.01	8.0	84.9	16.9 19	196.3 0.0	79 1.4	4 <250.174	4 0.01	257.4	10.17	0.64	30.20	7901.1	0.1	0.01 20	207.2 58	585994
JEM-01 r28	446	<242.297	0.46	0.29	0.32	0.0	2909	0.13	10.9	124.0	45.3 10	103.8 0.32	32 2.1	1 1045	5 0.02	414.5	9.81	0.43	32.87	2054.3	2.8	0.81 29	290.6 59	590193
JEM-01 r3	21006	297	1.81	0.96	0.53	0.2	13302	0.68	15.9	6775.3	70.1 39	e,	3.7	1 23142		274.1	15.10	0.36	27.08	2458.4	4.5		ε.	525364
JEM-01 r30	107	<168.238	1.94	1.12	1.98	0.1	5179	0.43	25.5	91.7	17.5 314.	4.6 1.17	1.5	34	3 0.31	203.0	22.35	2.24	30.73	2646.3	12.3	4.86 767	0.	590874
	*	*All elements are in ppm.	nents ¿	re in 1	opm.																			
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Appendix C: Eastern Sunda arc rutile trace element chemistry (LA-ICP-MS)

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Analysis ID	₹	Ca	Ce	ρ	Ę	Eu	Fe	Gd	±	Mg	Mn	N qN	1 Pb	Si	S	Sm Sn	Ta Ta	£	n	*	<b>\</b>	Υb	Zr	ij
JEM-01 r4	40	<399.596	90.0	0.09	<0.004	<0.003	5499	0.05	10.1		11.0	175.6		0.3 <66	<660.705 <				.,	9 461.2		1 0.03	289.5	593177
JEM-01 r5	93	<327.402	6.71	1.91	0.89	9.0	5287	2.12	13.3		<3.565	536.3	5.14	0.9 <54	<540.067		•	49 0.70	_		4 6.1		179.7	593566
JEM-01 r6	128	<170.218	0.40	0.05	0.02	0.0	5710	0.05	6.9	9.06	38.1	123.4	0.15	2.7 <26	<263.971	0.04 20		41 0.5	56 26.79			2 0.11	168.6	591069
JEM-01 r7	126	<191.964	0.30	0.04	0.03	0.0	6265	<0.004	10.0	99.7	5.1			1.8									234.8	289650
JEM-01 r8	1016	<157.994	0.04	0.00	0.01	0.0	8206	0.01	16.3	830.0	2.8			0.3			358.9 8.79		26.94			Ÿ	386.0	585727
JEM-01 r9	186	<153.750	0.59	0.07	0.04	0.0	5162	0.07	7.3	29.7	8.9			<del>[.</del>	465					.,			170.8	592050
JER-01 r1	1230	14027	15.55	2.77	1.15	0.7	1441	3.52	19.7	100.3	91.5		12.18 15	156.1	4032					584.6		5 0.89	752.7	577893
JER-01 r10	699	3760	30.05	1.25	0.42	9.0	1152	1.53	22.0	83.7	87.2		_	2.69	4625	3.38							738.5	587315
JER-01 r11	<u>1</u>	810	2.58	0.12	0.05	0.0	6981	0.19	20.9	99.5	15.9			3.3	1217	0.27				3 171.5			732.4	590327
JER-01 r12	122	<159.929	0.86	0.05	0.05	0.0	1802	0.10	24.7	89.3	19.6		0.35		277	0.07		_			2 0.3		845.3	596148
JER-01 r13	547	1480	21.87	2.03	0.89	0.7	1398	1.82	22.3	104.8	126.0			97.6	1614	2.23	_	79 0.48					847.2	592753
JER-01 r14	318	<327.553	0.74	0.63	0.37	0.1	2153	0.21	22.6	91.0	44.9				1259	0.27		V			7 1.9		759.7	593791
JER-01 r15	148	4735	13.40	0.84	0.38	0.3	2488	1.49	30.0	103.4	78.5			12.4	512	1.59	8.0 8.				7 4.1		1073.7	590941
JER-01 r16	602	13945	2.94	0.31	0.10	0.1	5127	0.10	22.1	87.8	41.9		1.33		12649	0.17	11.2 7.	7.10 0.02	2.11		6.0 6	9 0.20	783.9	565535
JER-01 r18	236	1862	13.59	0.22	0.02	0.2	1245	0.23	21.8	84.6	44.6				2348	92.0			0.35				759.1	592392
JER-01 r19	1120	0689	2.30	1.40	0.97	0.1	1371	0.53	21.3	109.3	78.0	223.0	1.51	31.7	5583	0.46	5.9 8.37	37 0.03	3 1.49		9 6.0		717.6	582732
JER-01 r2	822	12676	36.91	6.30	3.02	6.1	1492	6.91	21.8	139.4	140.1	178.5		208.4	3408	6.72	14.1 10.	00 0.31			4 22.6		772.2	580064
JER-01 r20	361	19450	13.96	0.99	0.39	0.3	13524	1.29	22.3	94.5	6.73	174.2		3.5	11458	1.80	2.2 8.	8.99 0.12					782.7	556420
JER-01 r3	344	865	6.52	0.64	0.15	0.3	1693	92.0	19.5	106.5	44.2	201.6		51.3	623	1.01	7.2 9.				4 2.0		682.1	594805
JER-01 r4	51	<415.339	0.07	<0.004	0.02	<0.003	2391	0.04	15.0	79.3	<4.478			1.4 <67	_	<0.009	4.0 6.	v					511.9	595778
JER-01 r5	3438	58399	49.31	6.58	3.92	6.1	1842	92.9	24.8	546.5	171.1	174.9		39.2		7.16	4.4 7.				.,		875.3	521131
JER-01 r6	458	365	6.77	0.87	0.33	0.2	1675	1.20	23.0	91.1	66.3	180.7	·		805	1.33	11.7 9.	68 0.01			9 2.7		784.8	594511
JER-01 r7	1237	11010	12.75	0.20	0.10	0.2	1210	0.29	19.4	88.7	45.9	170.3					11.4 8.						713.8	575530
JER-01 r8	1100	4929	7.26	4.31	3.55	0.2	1930	1.91	29.2	161.7	52.2	205.1		36.8		1.38					•		976.4	585722
JER-01 r9	112	<402.549	0.02	<0.004	<0.004	<0.002	1475	<0.011	29.1	83.9	12.9				<655.533 <			8.31 <0.002			3 0.0		1025.3	596127
LB002 r1	79	<150.107	0.48	90:0	0.01	0.0	3133	0.04	1.0	87.5	27.8												7.7	595484
LB002 r10	88	<162.059	0.74	0.09	0.07	0.0	6763	0.01	34.7	154.8	37.0			0.5	296		130.9 73.70		36 13.12				293.1	588896
LB002 r11	23	<163.307	18.87	3.30	2.36	9.0	5428	3.19	32.4		5.6												266.5	589058
LB002 r12	61	<342.814	<0.002	0.01	0.01	<0.002	6882	<0.009	21.0		3.592		₽						38.62				232.2	589659
LB002 r13	3198	220	16.26	3.09	2.70	6.0	6280	2.00	1.4	788.0	63.4	131.8		2.2	6614	0.99	207.6 6.				3 16.9		25.3	580274
LB002 r14	99	<150.477	0.28	0.02	0.01	0.0	3223	0.04	0.7	82.7													4.9	596159
LB002 r15	264	<138.955	0.28	0.02	0.03	0.0	9299	0.01	45.1		•					0.02					4 0.2		1061.9	585036
LB002 r16	192	<150.013	0.07	0.03	0.02	0.0	8827	0.01	15.6		<1.676			0.1 <24									276.9	584149
LB002 r17	126	<150.408	0.00	0.01	<0.002	0.0	8507	<0.003	22.0				<0.004		•			66 0.01					361.3	584267
LB002 r18	343	511	31.48	3.99	2.78	3.5	7130	4.70	4.5	89.5	136.9				1337					19.8		3 2.63	43.9	590391
LB002 r19	2128	2647	64.23	6.10	4.26	6.5	6191	6.71	5.3	185.0	368.5	351.5			2009				_				58.0	580632
LB002 r2	130	<142.096	2.00	0.30	0.22	0.1	3475	0.18	6.0	88.1	36.5		0.75	11.7	954						1.5		7.0	594764
LB002 r20	286	1194	23.05	2.61	2.45	4.	4955	2.12	<del>-</del> -	121.3	133.3	292.6			2793		_						8.3	589089
LB002 r3	165	<154.569	0.00	<0.003	<0.002	<0.001	10299	0.03	7.5	87.7	5.4	•			663								81.1	580728
LB002 r4	315	309	3.68	0.20	0.13	0.3	3814	0.17	<del>-</del> -	104.5					1363								10.8	593673
LB002 r5	101	<146.556	0.02	0.02	0.01	0.0	6625	<0.003	40.8	84.8	2.4	5446.5			494				17 30.97	7 1931.2			1007.7	585240
LB002 r6	40	<158.731	0.94	0.17	0.12	0.0	4764	0.07	6.4	86.7					2.467								71.9	593189
LB002 r7	925	<158.209	4.10	0.76	0.53	0.1	4429	0.58	9.6	198.7	12.2			1.8	2825	_						3 0.68	175.7	586891
LB002 r9	2513	1711	21.39	<u>1</u>	0.55	1.2	4215	1.29	0.7	123.1	210.7			102.8	4928				71 1.85	10.9			5.1	584885
LB018 r1	1938	<364.002	4.63	0.70	0.50	0.1	4323	0.63	2.7	256.4	39.8		_		3430			8.10 1.23					98.5	587970
LB018 r10	10330	852	3.19	0.90	0.67	0.1	7984	0.73	12.2	1379.5	203.9				18734	_		94 3.9	96 1.38		5 4.3		172.0	553662
LB018 r2	116	<380.548	2.21	0.26	0.22	0.1	5045	0.16	8.1	79.7	:3.967				<601.544				31 1.23	_			133.5	593886
LB018 r3	4118	1369	143.92	17.50	17.67	2.5	86104	12.12	8.9	344.6	381.1		_	118.4	7315		•	69 19.10	10 2.33	3 95.9	_	_	154.7	515054
LB018 r4	319	<352.583	6.47	2.45	1.39	0.4	4104	1.31	8.9	82.8	26.3			21.0	1188		19.3 45.06		57 0.63	3 101.2			144.2	592823
LB018 r6	9634	2382	70.05	14.90	14.41	2.1	32671	10.13	14.4	8.609	251.8	397.0	35.91 6	8.69	16506	8.38	94.0 24.53	53 20.11	1.77	110.6	3 82.2	2 12.75	192.1	537663
	•	*All elements are in ppm	ments	are in	ppm.																			
					ı <b>ı</b>																			

Appendix C: Eastern Sunda arc rutile trace element chemistry (LA-ICP-MS)

Analysis ID	۵	S	g	à	i i	ā	ā	5	Ĭ	N .	2	- AN	8	iō.	Ē	S.	, <u>r</u>	£	=	>	>	ş	ř	F
1 0048 -7	05540	1460	40.40	40,40	i 5		0000	24.0	7 7	10,00	0 90		3.45	;	4	+	2000	-	20 2	:	74.5	14 66	i	100440
LB018 r8	13878	7312	17.91	2.67	2.03	0.5	2692	2.16	10.8	673.3	331.6 5	516.8	10.25	25.3 20	20933 2.67		5 40.42	1.29	0.24	42.0	13.9	3 4	197.2	542952
LB018 r9	4417	1125	20.49	5.10	4.73	0.7	4348	4.03	13.8	330.9				9578					0.94	78.4	29.3	4.98	242.6	575981
LB022 r1	743	<434.391	31.58	4.07	3.06	6.0	28530	4.55	10.8	_									13.25	451.2	18.6	2.31	313.5	556582
LB022 r10	146	<158.412	90.9	0.57	0.46	0.3	27327	0.74	20.4	108.8						114.4			4.89	73.9	3.8	0.35	664.2	572168
LB022 r2	82	<170.564	0.40	90.0	0.09	0.0	9395	0.11	21.2	8.98									15.93	2026.6	0.4	0.12	9.959	583153
LB022 r3	387	<153.260	1.76	0.35	0.24	0.1	9669	0.25	38.1	143.3		256.0							20.36	237.7	1.5	0.30	1182.1	588279
LB022 r6	73	<350.034	0.38	0.02	<0.004	0.0	6368	90.0	14.2	81.2				0.1					7.44	190.8	0.1	0.02	423.0	588412
LB022 r7	26	<344.675	0.01	<0.004	<0.004	<0.002	2600	<0.008	5.5		(-)	•			٠				20.03	423.4	0.1	<0.005	72.9	590315
LB022 r8	117	<335.745	1.20	0.35	0.33	0.1	7739	0.31	39.6										8.49	332.5	2.1	0.49	1244.6	588830
LB022 r9	26	<331.532	0.41	0.09	0.07	0.0	13159	0.16	11.8										11.96	331.1	0.7	0.15	296.7	579339
LB028 r1	86	6378	66.71	3.75	2.16	0.5	3330	4.78	10.0			585.5 33							2.22	689	19.0	1.78	168.0	589384
LB028 r10	1011	583	9.56	2.92	3.05	0.3	4286	2.00	15.6							43.1			2.25	114.4	19.6	4.63	404.4	588008
LB028 r2	546	1896	11.07	2.70	2.11	0.5	5645	1.82	9.0										3.70	82.8	11.1	2.34	159.9	587865
LB028 r3	627	932	32.12	5.65	3.90	1.0	4230	4.08	13.6					340.8		3 12.4			2.23	164.8	22.3	5.21	147.9	590094
LB028 r4	166	<334.152	7.04	1.52	1.20	0.2	2970	0.98	9.3										2.78	64.1	7.8	1.51	153.3	593510
LB028 r5	10598	2782	17.40	6.30	4.51	<del>-</del>	11793	4.56	12.5			433.9 11							5.79	161.4	26.7	5.92	219.2	539715
LB028 r6	15474	3114	15.60	4.79	3.47	1.0	15482	3.50	17.2										3.30	200.6	22.8	3.79	264.2	506468
LB028 r8	1775	758	5.97	2.86	1.67	0.4	14488	1.56	8.0										2.17	100.5	9.5	1.48	184.5	916119
LB028 r9	9824	2790	8.47	3.69	3.51	9.0	10259	3.40	37.1										2.52	210.3	19.2	3.47	865.4	539193
LB029 r1	2193	4272	50.23	39.62	32.04	4.5	12304	19.39	74.5			778.7 33	33.13 33:			31.6			29.61	211.6	146.8	35.30	1069.7	570516
LB029 r10	16742	1156	48.70	52.39	39.72	5.5	24007	24.94	68.3										11.26	165.1	179.5	45.59	1055.8	517148
LB029 r2	2740	2990	44.04	27.55	20.87	4.0	18285	16.88	59.3										44.67	197.2	98.1	21.76	1048.4	568941
LB029 r3	603	672	19.86	13.04	10.90	7.5	15130	2.77	60.2										38.81	229.9	48.9	13.52	876.9	580037
LB029 r5	1285	<389.004	26.01	15.01	11.30	2.1	14208	6.81	62.7			534.4 1							35.19	213.8	53.9	13.21	980.3	579803
LB029 r6	1792	1583	68.17	41.17	30.33	6.2	8807	20.89	110.8										17.40	132.0	145.4	38.16	1725.0	578410
LB029 r7	128	<368.052	12.51	0.03	0.03	0.0	1105	0.09	6.1			635.6							0.09	86.2	0.2	0.05	109.0	596252
LB029 r8	1169	601	44.51	31.24	25.67	3.8	12113	14.16	9.07							49.8			32.54	182.9	112.4	30.75	1187.8	580623
LB029 r9	6104	1263	36.81	23.02	18.15	3.8	19886	11.90	56.4										20.72	166.0	88.2	21.11	913.5	557015
LB036 r1	225	<215.077	1.00	0.71	0.69	0.1	11794	0.45	8.9			583.4							12.88	120.5	4.4	0.37	176.7	584543
LB036 r10	2327	<152.962	2.95	0.49	0.29	0.1	93496	0.59	13.5					1.2 4					8.55	79.8	2.8	0.28	305.6	517254
LB036 r11	724	<338.727	1.22	0.05	0.03	0.1	8029	0.11	4.0			711.9				3 129.2			11.63	21.7	0.4	0.03	106.4	589439
LB036 r12	294	<168.188	0.07	<0.003	<0.002	<0.001	17659	<0.003	11.2										10.00	135.6	0:0	<0.003	272.1	581190
LB036 r13	170	<149.142	0.19	0.00	0.04	<0.001	32217	0.01	. o. o.					2.3		122.5			13.66	132.4	0.1	0.02	253.4	572534
LD030 1 14	2000	1048.407	0.10	40.004	\$0.00	20.002	1010	00.00	0.0										0. 5	00.0	7. 6	0.0	- 6	07.000
LB036 115	16099	369 198	2.65	10.0	0.20	0.0	30052		10.00	10876.7	22.08.0			18 18		1004	4 40.85		12 42	00.0	0. 6	0.50	213.0	520855
I B036 r17	3190	<346 821	2.20	0.40	0.26		9614	0.42					167	9.0					15.43	1514	σ <del>.</del>	0.26	332.9	574029
LB036 r18	5203	393	0.43	0.35	0.14	0.1	10525	0.28	17.3	3719.4			0.36	1.2		ν-			22.08	90.3	1.5	0.22	347.4	564098
LB036 r3	2698	<327.714	1.08	0.09	90.0	0.1	6314	0.17		811.1			0.48	4.2 5	.0.0 0.0.		4 39.51		16.45	74.7	0.4	0.05	103.7	581983
LB036 r4	13507	321	8.74	3.66	3.54	0.8	23251	<u>4</u> .	10.9	6135.1	943.3 5	551.3	. 09.9	7.9 13		•			16.82	70.1	22.0	6.28	243.8	537378
LB036 r5	1950	<161.286	0.05	0.02	0.01	<0.001	7190	0.04		722.4			0.09	3.5	٠	188.4	_		49.55	129.0	0.1	0.02	696.3	584385
LB036 r6	153	<335.156	0.28	0.04	0.02	0.0	6603	0.04		85.9	4.0 6	_	0.24	0.2 <510.749	749 0.02		1 51.57		96.9	77.0	0.1	0.02	136.0	591757
LB036 r7	118	<332.213	1.67	0.05	0.05	0.1	2880	0.18	10.2	116.1	~		1.19	0.6 <506.618			_		3.79	53.5	0.3	0.01	224.0	591792
LB036 r8	101	<345.718	0.25	<0.004	0.01	0.0	7475	0.05		83.5	_	715.9	0.26	.9 <527.609	٠		4	0.40	12.51	48.6	0.1	<0.005	449.6	591218
LB036 r9	317	<148.258	0.14	0.01	0.01	0.0	10082	0.01	4.6	121.3	9.3	67.5	0.03	1.7	397 <0.004	118.2	2 3.34	0.25	9.80	80.5	0.1	<0.003	140.0	588534
	*	*All elements are in ppm.	nents a	re in 1	opm.																			
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Appendix C: Eastern Sunda arc titanite trace element chemistry (EMPA)

Analysis ID	ïS	Ca	F	Na	Mg	A	>	ò	Mn	Fe	s	>	Zr	ш	0
LB014_322_tit1	14.262	20.039	22.937	0.017	0.009	0.211	0.011	<0.005	0.157	0.901	<0.005	0.117	0.151	0.107	40.239
LB014_322_tit10	14.143	20.058	22.610	0.010	0.004	0.277	0.023	<0.005	0.124	1.062	<0.005	0.150	0.108	0.081	39.997
LB014_322_tit11	14.283	20.317	22.962	0.008	0.004	0.296	0.028	<0.005	0.105	0.838	<0.005	0.024	0.025	0.128	40.300
LB014_322_tit12	14.181	19.929	22.415	0.012	0.007	0.279	0.019	<0.005	0.180	1.076	<0.005	0.118	0.308	0.213	39.880
LB014_322_tit13	14.295	20.192	23.028	0.011	0.004	0.187	0.036	<0.005	0.148	0.794	<0.005	0.058	0.146	0.163	40.256
LB014_322_tit14	14.105	19.614	21.335	<0.007	<0.002	0.377	0.103	<0.005	0.074	1.643	<0.005	0.083	0.123	0.310	39.171
LB014_322_tit15	14.238	19.969	22.171	0.010	0.007	0.277	0.047	<0.005	0.162	1.153	<0.005	0.028	0.331	0.206	39.748
LB014_322_tit16	14.491	20.688	20.249	0.009	<0.002	1.194	0.056	<0.005	0.024	2.308	<0.005	<0.006	>0.006	<0.026	40.059
LB014_322_tit17	14.320	20.170	22.652	0.017	0.004	0.241	0.014	<0.005	0.136	0.983	<0.005	0.064	0.310	0.106	40.201
LB014_322_tit18	14.226	20.159	22.515	<0.006	0.004	0.293	0.047	<0.005	0.130	1.162	<0.005	0.019	0.066	0.208	39.910
LB014_322_tit2	14.047	19.623	22.211	<0.007	0.006	0.316	0.042	<0.005	0.128	0.993	<0.005	0.187	0.044	0.127	39.534
LB014_322_tit20	14.342	20.236	22.660	0.010	0.005	0.283	0.024	<0.005	0.128	1.108	>0.006	0.011	0.062	0.182	40.148
LB014_322_tit21	14.179	19.782	22.222	0.021	0.010	0.312	0.034	<0.005	0.166	1.237	>0.006	0.154	0.081	0.176	39.736
LB014_322_tit22	13.573	20.186	22.338	0.011	0.004	0.276	0.027	<0.005	0.146	1.383	<0.005	0.055	0.252	0.119	39.258
LB014_322_tit23	14.257	20.179	22.961	0.009	0.005	0.248	0.014	<0.005	0.141	0.838	<0.005	090:0	0.085	0.170	40.181
LB014_322_tit3	14.350	20.109	22.906	0.018	0.008	0.205	0.033	<0.005	0.163	0.834	<0.005	0.051	0.234	0.180	40.254
LB014_322_tit4	14.407	20.231	22.726	0.025	0.008	0.269	0.027	<0.005	0.169	1.070	<0.005	<0.006	0.018	0.097	40.274
LB014_322_tit5	14.221	20.038	22.753	0.013	0.005	0.279	0.046	<0.005	0.136	0.814	<0.005	0.081	0.057	0.177	40.069
LB014_322_tit6	14.268	20.203	22.900	0.014	900.0	0.230	0.037	<0.005	0.142	0.897	<0.005	0.020	0.177	0.174	40.158
LB014_322_tit7	14.147	19.747	22.284	0.020	900.0	0.293	0.021	<0.005	0.134	1.291	>0.006	0.233	0.123	0.162	39.801
LB014_322_tit8	14.345	20.690	21.764	<0.006	<0.002	0.804	0.036	<0.005	900'0	1.062	<0.005	<0.006	>0.006	<0.026	40.185
LB014_322_tit9	14.413	20.528	21.343	0.008	<0.002	0.791	0.109	<0.005	0.028	1.396	<0.005	0.022	>0.006	<0.026	40.085
LB025_323_tit1	15.267	20.637	14.233	0.011	0.083	5.197	0.115	0.040	0.020	0.927	<0.005	0.008	0.034	3.379	38.761
LB025_323_tit10															
LB025_323_tit11															
LB025_323_tit12															
LB025_323_tit2	15.101	20.765	13.890	<0.006	0.033	5.508	0.129	0.007	0.017	0.988	<0.005	0.009	0.018	3.848	38.447
LB025_323_tit3	15.207	20.319	15.011	0.007	690.0	4.690	0.053	0.015	0.019	1.187	<0.005	0.014	0.033	2.976	38.830
LB025_323_tit4	15.073	20.766	13.882	0.013	0.034	5.497	0.093	<0.004	0.014	0.883	<0.005	0.008	0.012	3.937	38.305
LB025_323_tit5	15.465	20.298	14.582	0.019	0.022	4.795	0.075	<0.004	0.017	0.857	0.007	<0.006	0.011	3.248	38.676
LB025_323_tit6	15.095	20.726	15.154	0.032	0.074	4.434	0.112	<0.004	0.073	1.134	<0.005	<0.006	0.033	3.077	38.724
LB025_323_tit7	13.513	18.976	23.856	0.010	0.008	0.539	0.103	0.027	0.290	1.604	<0.005	<0.006	0.035	0.243	39.907
LB025_323_tit8	15.287	20.331	14.573	0.009	0.044	5.282	0.118	<0.004	0.016	0.899	<0.005	0.017	0.013	3.440	38.880
LB025_323_tit9															
LB037_329_tit1	14.249	20.222	21.933	0.008	0.007	0.410	0.043	<0.005	0.112	1.813	<0.005	0.039	0.126	0.130	39.930
LB037_329_tit10	14.235	20.410	22.767	0.012	0.005	0.256	0.035	<0.005	0.099	0.948	<0.005	0.058	0.123	0.151	40.184
LB037_329_tit11		20.411	22.244	<0.006	0.003	0.391	0.050	<0.005	0.085	1.329	0.008	0.018	0.100	0.310	39.962
LB037_329_tit12	14.346	20.499	22.979	<0.006	<0.002	0.381	0.040	<0.005	0.068	0.669	<0.005	<0.006	0.018	0.069	40.434
LB037_329_tit13	14.076	19.690	22.687	0.011	0.005	0.216	0.041	<0.005	0.150	0.956	<0.005	0.225	0.108	0.090	39.830
LB037_329_tit14	14.289	20.269	22.825	0.008	0.003	0.262	0.050	<0.005	0.147	0.959	<0.005	<0.006	0.079	0.258	40.125
LB037_329_tit15	14.245	20.087	22.378	<0.006	0.004	0.324	0.050	<0.005	0.121	1.216	<0.005	0.035	0.133	0.173	39.954
LB037_329_tit16	14.230	20.152	22.541	0.008	0.008	0.278	0.047	<0.005	0.153	1.296	<0.005	0.009	0.053	0.213	39.962
LB037_329_tit17	14.295	20.598	22.785	0.010	0.005	0.297	0.054	<0.005	0.107	1.058	<0.005	<0.006	0.063	0.214	40.300
LB037_329_tit18	14.075	20.146	22.706	<0.006	900.0	0.227	0.037	<0.005	0.161	0.946	<0.005	0.041	0.177	0.195	39.824
LB037_329_tit19	13.803	20.050	22.704	<0.006	<0.002	0.230	0.056	<0.005	0.101	1.011	900.0>	0.078	0.151	0.188	39.510
LB037_329_tit2	14.230	20.120	22.556	0.008	0.004	0.274	0.047	<0.005	0.145	1.001	<0.005	0.039	0.174	0.261	39.900
LB037_329_tit20	13.585	20.209	22.865	0.008	0.004	0.260	0.045	<0.005	0.121	0.929	<0.005	0.039	0.076	0.158	39.387
LB037_329_tit21	14.258	20.169	22.401	0.017	0.007	0.314	0.057	<0.005	0.160	1.333	>0.006	0.070	0.256	0.134	40.089
LB037_329_tit22	14.237	20.267	22.143	0.008	0.006	0.338	0.056	<0.005	0.130	1.431	<0.005	<0.006	0.017	0.161	39.845
LB037_329_tit23	14.248	20.230	22.471	<0.006	0.006	0.336	0.037	<0.005	0.111	1.141	<0.005	0.062	0.097	0.201	40.004
*all eler	ments a	*all elements are in wt. % (EMPA	t. % (E)	MPA).											

Appendix C: Eastern Sunda arc titanite trace element chemistry (EMPA)

			JJ										(		
Analysis ID	is	Ca	Ti	Na	Mg	A	^	Cr	Mn	Fe	Sr	<b>&gt;</b>	Zr	ь	0
LB037_329_tit24															
LB037_329_tit25	14.200	20.073	22.952	0.008	0.004	0.170	0.048	<0.005	0.121	0.790	<0.005	0.159	0.090	0.157	40.051
LB037_329_tit26	14.184	19.702	22.885	0.014	0.004	0.198	0.044	<0.005	0.170	0.797	>0.006	0.055	0.076	0.125	39.862
LB037_329_tit27	14.300	20.302	22.609	<0.006	<0.002	0.368	0.049	<0.005	0.081	0.960	>0.006	0:030	0.010	0.097	40.133
LB037_329_tit28	13.547	20.312	22.788	0.007	0.007	0.307	0.053	<0.005	0.133	1.058	<0.005	<0.006	0.101	0.155	39.395
LB037_329_tit29	14.228	20.373	23.020	0.013	0.007	0.216	0.028	<0.005	0.138	0.799	<0.005	0.080	0.091	0.204	40.225
LB037_329_tit3	14.245	20.139	23.102	0.011	0.007	0.192	0.052	<0.005	0.159	0.765	<0.005	0.099	0.137	0.145	40.237
LB037_329_tit30	13.551	20.205	22.278	0.008	0.006	0.336	0.057	<0.005	0.128	1.151	0.014	0.043	0.091	0.199	39.074
LB037_329_tit31	13.570	20.373	22.888	0.009	0.003	0.291	0.034	<0.005	0.107	0.768	<0.005	0.022	0.009	0.119	39.389
LB037_329_tit32	14.298	20.392	22.872	<0.007	0.003	0.232	0.056	0.005	0.096	0.918	<0.005	0.026	0.202	0.269	40.233
LB037_329_tit33	14.106	19.844	22.349	<0.007	<0.002	0.257	0.086	<0.005	0.084	1.075	<0.005	0.186	0.177	0.191	39.635
LB037_329_tit34	13.034	20.155	22.568	<0.007	<0.002	0.245	0.052	<0.005	0.095	1.022	<0.005	0.086	0.177	0.231	38.583
LB037_329_tit35	13.189	19.760	22.809	0.019	0.005	0.223	0.047	<0.005	0.131	0.941	>0.006	0.285	0.129	0.143	38.860
LB037_329_tit36	14.226	20.042	22.432	<0.006	0.003	0.302	0.062	<0.005	960.0	1.186	>0.006	0.188	0.155	0.211	39.968
LB037_329_tit37	13.521	19.935	22.849	0.010	0.004	0.224	0.049	<0.005	0.119	0.873	<0.005	0.116	0.189	0.183	39.245
LB037_329_tit38	14.194	20.054	22.661	0.011	0.005	0.285	0.041	<0.005	0.123	0.903	>0.006	0.059	0.105	0.119	39.953
LB037_329_tit39	14.259	20.140	22.675	<0.006	<0.002	0.241	0.055	<0.005	0.087	0.909	<0.005	0.052	0.135	0.185	40.005
LB037_329_tit4	14.230	20.109	22.612	<0.006	<0.002	0.402	0.086	<0.005	0.104	0.831	<0.005	0.167	0.036	0.220	40.039
LB037_329_tit40	14.201	19.985	22.545	0.016	0.003	0.234	0.065	<0.005	0.119	1.050	<0.005	0.043	0.222	0.219	39.818
LB037_329_tit41															
LB037_329_tit5	14.299	20.398	22.493	0.007	<0.002	0.565	0.083	<0.005	0.055	0.731	>0.006	0.059	0.010	0.149	40.206
LB037_329_tit6	14.275	20.373	22.888	<0.006	<0.002	0.313	0.040	<0.005	0.093	0.576	<0.005	0.011	0.016	0.125	40.142
LB037_329_tit7	14.330	20.402	22.589	0.007	0.004	0.320	0.046	<0.005	0.105	1.148	<0.005	>0.006	0.034	0.134	40.191
LB037_329_tit8	14.283	20.244	22.859	0.013	0.003	0.288	0.049	<0.005	0.089	0.827	<0.005	0.030	0.024	0.182	40.148
LB037_329_tit9	14.494	20.919	19.054	<0.006	0.004	2.433	0.052	<0.005	0.017	1.167	<0.005	<0.006	>0.006	1.279	39.589
LB042_331_tit1															
LB042_331_tit2															
ELF-03_333_tit1	14.740	20.828	17.903	0.010	0.010	3.503	0.097	<0.004	<0.005	0.221	<0.005	<0.006	900:0>	2.495	39.253
ELF-03_333_tit2	14.461	20.708	19.987	<0.006	0.003	1.684	0.040	<0.005	<0.005	1.450	<0.005	<0.006	900:0>	1.434	39.427
ELF-03_333_tit3	14.619	20.837	18.192	0.009	0.018	3.275	0.062	<0.005	0.008	0.339	>0.006	<0.006	900:0>	2.320	39.208
ELF-03_333_tit4															
ELF-03_333_tit5															
ELF-03_333_tit6															
ELF-03_333_tit7															
ELF-03_333_tit8															
SPF-05_336_tit1	14.492	20.579	20.477	>0.006	0.005	1.688	0.077	<0.005	0.018	0.456	<0.006	0.087	>0.006	0.853	39.793
SPF-05_336_tit10															
SPF-05_336_tit2	14.432	20.824	21.222	0.007	0.002	1.420	0.083	<0.005	0.019	0.543	<0.005	0.013	900:0>	0.510	40.204
SPF-05_336_tit3	14.490	20.671	20.733	<0.006	<0.002	1.634	0.061	<0.005	0.021	0.592	<0.005	0.065	900:0>	0.873	39.968
SPF-05_336_tit4	14.356	20.365	21.974	<0.006	<0.002	1.056	0.063	<0.005	0.011	0.367	<0.005	0.162	900:0>	0.458	40.144
SPF-05_336_tit5	14.271	20.185	21.569	<0.007	<0.002	1.032	0.095	<0.005	0.021	0.622	<0.005	0.116	900.0>	0.333	39.868
SPF-05_336_tit6	13.856	19.708	20.393	0.007	0.003	1.689	0.083	<0.005	0.023	0.581	<0.005	1.057	<0.006	0.547	39.178
SPF-05_336_tit7															
SPF-05_336_tit8															
SPF-05_336_tit9															
NEF-02_337_tit1															
NEF-02_337_tit2															
NEF-02_337_tit3															
NEF-02_337_tif4															
NEF-02_337_titb															
C*	*all alamonts are in wr 0% (FMD)	TAY IN LAY	. O	IDVI											

\*all elements are in wt. % (EMPA).

Appendix C: Eastern Sunda arc titanite trace element chemistry (EMPA)

HAME   2009   114   400																
1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,	Analysis ID	S	Ca	F	Na	Mg	¥	>	Ö	Mn	Fe	S	<b>\</b>	Zr	ш	0
1446   2100   6134   6100   6104   3497   6104   6104   6104   6104   6105   6104   6105   6104   6105   6104	ELF-01_tit1	14.489	20.903	19.775	<0.007	0.003	2.316	960.0	<0.005	0.008	0.375	<0.005	<0.006	>0.006	1.425	39.686
14.85   20.39   14.87   40.07   0.08   2.86   2.86   40.08   0.003   0.01   4.02   4.008   4.008   4.009   4	ELF-01_tit10	14.424	21.050	18.391	<0.007	0.044	3.167	0.088	<0.004	0.007	0.314	<0.005	<0.006	0.008	2.371	39.116
	ELF-01_tit11	14.493	20.948	18.877	<0.007	900'0	2.865	0.088	<0.005	0.012	0.397	<0.005	<0.006	900:0>	1.888	39.411
14.41   20.72   20.7	ELF-01_tit12	14.667	20.797	19.988	<0.007	090.0	2.302	0.117	<0.004	<0.005	0.306	<0.005	0.008	>0.006	1.435	40.001
1,141   20,739   20,418   4,007   6,002   1,281   1,111   4,002   4,002   6,003   4,	ELF-01_tit13	14.383	20.774	20.142	<0.007	0.009	2.000	0.200	<0.005	0.013	0.477	<0.005	<0.006	0.007	1.414	39.569
1.0   1.0	ELF-01_tit14															
4411         2778         2779         400<	ELF-01_tit15															
14.477   17.74   17.474   17	ELF-01_tit7	14 411	20 759	20.418	<0.007	<0.000	1.931	0.111	<0.005	<0.005	0.390	<0.005	>0.006	9000>	1.128	39 757
1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,	EI F-01 ##3	14 472	20 711	20.476	<0.000	0 007	1 950	104	\$0.00 \$0.005	0.012	0.404	<0.00	0000	900.0>	1 201	39.843
1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,	EL 5.1 tit4	14.351	20.389	19 192	<0.007	0.03	269.2	0.058	£0.005	210.0	0.589	£0.005	0.324	900.0>	1621	30.350
1, 10, 10, 10, 10, 10, 10, 10, 10, 10,	ELE-01 ##5	12.83	19 503	18 721	40.007	0.020	2.475	100	<0.005	0.00	0.806	1000	0.024	90.05	1 213	37 113
1, 10, 10, 10, 10, 10, 10, 10, 10, 10,	ELF-0-1113	12.013	19.303	10.72	70.007	00.00	2,473	0. 130	900.07	0.020	0.020	000	0.00	900.07	1.001	27.1.13
1, 10, 10, 10, 10, 10, 10, 10, 10, 10,	ELF-0 - 1110	13.141	20.174	10.024	×0.007	×0.002	2.902	2 5	<0.005	0.0	0.332	×0.005	0.0.0	20.00	.90.	400.70
1,10   1,10	ELF-01_m(/	14.503	20.8/3	19.809	<0.007	0.008	2.147	0.125	<0.005	<0.005	0.567	<0.005	<0.000 0.000	110.0	1.390	39.650
1,116   2,11	ELF-01_tit8	13.980	19.687	18.603	<0.007	0.036	3.339	0.123	<0.004	0.010	0.762	0.011	0.508	0.007	2.125	38.812
13.50   20.78   20.28   4.007   4.002   1.787   4.006   4.00	ELF-01_tit9	14.798	20.635	18.547	0.021	0.025	2.718	0.090	0.005	0.020	0.794	<0.005	>0.006	900.0>	1.606	39.536
1444   20 24   20 24   20 24   20 24   20 24   20 24   20 25   20 24   20 25   20 24   20 25   20 24   20 25   20 24   20 25	LB026_tit1	13.115	20.738	20.596	<0.007	<0.002	1.787	0.102	<0.004	<0.005	0.738	<0.005	<0.006	900:0>	0.629	38.578
1350   22.28   22.29   22.29   20.00   0.005   12.27   20.00   0.005	LB026_tit2	14.444	20.784	20.307	<0.007	<0.002	2.014	0.066	<0.005	0.011	0.618	<0.005	<0.006	>0.006	0.506	40.119
1	LB026_tit3	13.560	20.286	21.973	<0.007	0.005	0.464	0.117	<0.005	0.053	1.347	0.013	0.057	0.159	0.220	39.106
1,200   20,208   21,708   20,007   20,007   20,008   20,008   20,008   20,008   20,008   20,008   20,009   20	LB026_tit4	13.922	19.562	22.279	<0.007	0.033	1.327	0.219	<0.005	0.009	0.616	<0.005	0.040	0.018	0.232	39.970
1578   22.546   21.756   21.000   21.	LB026_tit5	14.216	20.278	21.671	<0.007	0.007	0.554	0.137	<0.005	0.044	1.553	0.007	<0.006	0.362	0.059	39.920
13.74   20.545   21.75   4.007   4.002   1.007   4.005   4.005   4.005   4.005   4.006   4.006   4.006   4.006   4.006   4.007   4.207   4.207   4.207   4.207   4.007   4.007   4.005   4.005   4.005   4.006   4.006   4.006   4.006   4.006   4.006   4.007   4.207   4.207   4.207   4.0	LB026_tit6															
13784   20785   21786   40007   40002   1407   40005   1007   40005   40006	LB026_tit7															
14 500         20 700         1 60 70         4 0.000 <th< td=""><td>NAF-01_tit1</td><td>13.784</td><td>20.545</td><td>21.756</td><td>&lt;0.007</td><td>&lt;0.002</td><td>1.007</td><td>0.070</td><td>&lt;0.005</td><td>0.051</td><td>0.786</td><td>0.006</td><td>&lt;0.006</td><td>0.015</td><td>0.287</td><td>39.500</td></th<>	NAF-01_tit1	13.784	20.545	21.756	<0.007	<0.002	1.007	0.070	<0.005	0.051	0.786	0.006	<0.006	0.015	0.287	39.500
14.666   20.867   18.07   4.007   0.097   2.965   0.15   4.0046   0.015   0.015   4.005   4.006   0.094   4.007   4.007   4.007   0.028   2.965   0.15   4.0046   4.006   4.	NAF-01_tt10	14.502	20.793	19.887	<0.007	0.010	2.141	0.089	<0.005	<0.005	0.722	<0.005	<0.006	0.007	1.201	39.778
44 865         2 0 862         2 0 000         0 153         0 000         0 000         0 000         0 000         1 82 0           14 866         2 0 2 866         0 1000	NAF-01_tt11	14.551	20.687	19.870	<0.007	0.097	2.024	0.147	<0.005	0.015	0.757	<0.005	<0.006	900:0>	0.994	39.855
44.247         20.580         21.141         -0.007         -0.002         1.157         0.169         -0.005         0.017         -0.005 <td>NAF-01_tit12</td> <td>14.606</td> <td>20.852</td> <td>18.431</td> <td>&lt;0.007</td> <td>0.026</td> <td>2.905</td> <td>0.153</td> <td>&lt;0.004</td> <td>&lt;0.005</td> <td>0.813</td> <td>&lt;0.005</td> <td>&lt;0.006</td> <td>900:0&gt;</td> <td>1.682</td> <td>39.499</td>	NAF-01_tit12	14.606	20.852	18.431	<0.007	0.026	2.905	0.153	<0.004	<0.005	0.813	<0.005	<0.006	900:0>	1.682	39.499
1442   2.0 2.4 2.14   4.0007   4.0002   1.14   4.0005   0.014   4.0005   0.014   4.0005   0.014   4.0005   0.014   4.0005   0.014   4.0005   0.014   4.0005   0.014   4.0005   0.014   4.0007   4.0002   1.319   0.108   0.014   0.005   0.014   0.005   0.014   0.005   0.014   0.0005   0.014   0.0005   0.014   0.0005   0.014   0.0005   0.014   0.0005   0.014   0.0005   0.014   0.0005   0.014   0.0005   0.014   0.0005   0.014   0.0005   0.014   0.0005   0.014   0.0005   0.014   0.0005   0.014   0.0005   0.014   0.0005   0.014   0.0005   0.014   0.0005   0.00	NAF-01_tit13	14.247	20.580	20.300	<0.007	<0.002	1.573	0.150	<0.005	0.027	1.056	<0.005	0.117	0.024	0.484	39.640
1444   20 676   21517   40.007   40.002   1199   0.176   0.007   0.009   0.005   0.001   4.414   20 676   21517   40.007   40.002   1199   0.176   0.004   0.004   0.004   0.004   0.004   0.004   0.005   0.005   0.007   0.009   0.009   0.009   0.005   0.007   0.009   0	NAF-01_tit14	14.220	20.246	21.141	<0.007	<0.002	1.118	0.151	<0.005	0.046	1.144	<0.005	0.213	900.0>	0.079	39.891
14.30 b         20.728 b         21.28 b         0.000 b         0.004 b         0.016 b         0.016 b         0.014 b         0.026 b         0.014 b         0.014 b         0.026 b         0.005 b         0.005 b         0.005 b         0.005 b         0.005 b         0.006 b         0.006 b         0.006 b         0.007 b         0.006 b	NAF-01_tit15	14.414	20.676	21.517	<0.007	<0.002	1.199	0.176	0.007	0.009	0.622	<0.005	0.011	900:0>	0.315	40.272
14.456         20.1039         18.014         < 0,007         0,004         3.206         0.003         < 0,005         0.005         0.005         0.005         0.007         0.005         0.005         0.005         0.005         0.007         0.005         0.007         0.005	NAF-01_tit16	14.309	20.728	21.269	<0.007	<0.002	1.318	0.186	0.016	0.014	0.735	0.011	0.009	900:0>	0.351	40.128
1444   20,856   1887   40,007   0,003   2,113   0,115   4,005   0,007   0,005   4,006   4,00	NAF-01_tit17	14.635	21.039	18.014	<0.007	0.004	3.206	0.093	<0.005	<0.005	0.857	<0.005	<0.007	900:0>	1.774	39.523
13.44    20 626   20 562   0 0 10   0 0 003   1 (624   0 1172   0 0 005   0 0 105   0 0 0 0 0   0 0 0 0 0 0 0 0 0 0 0 0	NAF-01_tit18	14.449	20.850	19.875	<0.007	0.003	2.113	0.151	<0.005	0.007	0.997	<0.005	<0.006	900:0>	0.776	39.973
14.48  20.734   20.16   < -0.007   < -0.002   1.722   0.320   < -0.005   0.006   0.026   0.005   0.006   0.006   0.006   0.005   0.006   0.006   0.005   0.006   0.005   0.006   0.005   0.005   0.006   0.005   0.0	NAF-01_tit19	13.449	20.626	20.562	0.010	0.003	1.624	0.172	<0.005	0.013	0.900	<0.005	<0.006	900:0>	0.561	38.860
H 4 07   20 518   20,705   < 0,007   0,003   1477   0,005   0,006   0,005   0,006   0,005   0,006   0,005   0,006   0,005   0,006   0,005   0,006   0,005   0,006   0,005   0,006   0,005   0,006   0,005   0,006   0,005	NAF-01_tit2	14.468	20.734	20.186	<0.007	<0.002	1.722	0.320	<0.005	0.026	0.726	<0.005	<0.007	900:0>	0.826	39.816
14.50    20.790   19.588   <0.007   0.001   2.236   0.146   0.005   0.005   0.005   0.017   <0.005   0.007   0.005   0.005   0.007   0.005   0.005   0.005   0.007   0.005	NAF-01_tit20	14.407	20.518	20.705	<0.007	0.003	1.477	0.051	<0.005	0.066	1.067	>0.006	0.057	0.008	0.315	40.002
14.469   20.796   19.566   <0.007   0.005   1.998   0.344   <0.005   0.005   0.005   0.005   0.005   0.005   0.005   0.005   0.005   0.005   0.005   0.005   0.005   0.005   0.005   0.005   0.007   0.005   0.007   0.005   0.007   0.005   0.007   0.005   0.007   0.005   0.007   0.005   0.007   0.005   0.007   0.005   0.007   0.005   0.007   0.005   0.007   0.005   0.007   0.005   0.007   0.005   0.007   0.005   0.007   0.005   0.007   0.005   0.007   0.005   0.005   0.007   0.005	NAF-01_tit21	14.501	20.790	19.598	<0.007	0.011	2.236	0.166	0.005	<0.005	0.813	>0.006	<0.007	900:0>	1.281	39.690
15.696   18.902   20.915   <a href="https://documents.new/">   15.698   18.902   20.915   <a href="https://documents.new">c.0.007   c.0.006   c.</a></a>	NAF-01_tit22	14.469	20.796	19.566	<0.007	0.005	1.998	0.344	<0.005	0.020	1.211	<0.005	<0.007	900:0>	0.758	39.843
Harror   H	NAF-01_tit23	13.698	18.902	20.915	<0.007	0.233	1.066	0.326	<0.005	0.022	0.872	0.006	1.483	0.040	0.074	39.144
14468   20.783   19.662   < 0.007   0.005   2.116   0.305   0.009   0.007   0.624   < 0.005   < 0.007   0.005   1.344     1.344     1.344     1.344     1.344     1.344     1.344     1.344     1.348     1.358     2.0584     1.368     0.007     0.045     0.107     0.005     0.007     0.005     0.005     0.007     0.005     0.007     0.005     0.007     0.005     0.007     0.005     0.007     0.005     0.007     0.005     0.007     0.005     0.007     0.005     0.007     0.005     0.007     0.005     0.007     0.005     0.007     0.005     0.007     0.005     0.007     0.005   0.005     0.005     0.005     0.005     0.005     0.005     0.005     0.005     0.005     0.005     0.005     0.005     0.005   0.005     0.005     0.005     0.005     0.005     0.005     0.005     0.005     0.005     0.005     0.005     0.005     0.005   0.005     0.005     0.005     0.005     0.005     0.005     0.005     0.005     0.005     0.005     0.005     0.005     0.005   0.005     0.005     0.005     0.005     0.005     0.005     0.005     0.005     0.005     0.005     0.005     0.005     0.005   0.005     0.005     0.005     0.005     0.005     0.005     0.005     0.005     0.005     0.005     0.005     0.005     0.005   0.005     0.005     0.005     0.005     0.005     0.005     0.005     0.005     0.005     0.005     0.005     0.005     0.005   0.005     0.005	NAF-01_tit24	14.506	20.738	19.939	<0.007	<0.002	1.856	0.019	<0.005	0.013	1.230	0.007	<0.006	900:0>	0.341	39.994
14.55   20.634   19.568   <0.007   0.005   2.059   0.147   0.007   0.012   1.040   <0.005   <0.006   0.045   1.061	NAF-01_tit25	14.468	20.793	19.662	<0.007	0.005	2.116	0.305	0.009	0.007	0.824	<0.005	<0.007	900:0>	1.344	39.635
1443    20.783   20.588   <a "="" documentstare.org="" href="text-align: left-align: left-&lt;/td&gt;&lt;td&gt;NAF-01_tit26&lt;/td&gt;&lt;td&gt;14.536&lt;/td&gt;&lt;td&gt;20.634&lt;/td&gt;&lt;td&gt;19.568&lt;/td&gt;&lt;td&gt;&lt;0.007&lt;/td&gt;&lt;td&gt;0.005&lt;/td&gt;&lt;td&gt;2.059&lt;/td&gt;&lt;td&gt;0.147&lt;/td&gt;&lt;td&gt;0.007&lt;/td&gt;&lt;td&gt;0.012&lt;/td&gt;&lt;td&gt;1.040&lt;/td&gt;&lt;td&gt;&lt;0.005&lt;/td&gt;&lt;td&gt;&lt;0.006&lt;/td&gt;&lt;td&gt;0.045&lt;/td&gt;&lt;td&gt;1.061&lt;/td&gt;&lt;td&gt;39.663&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;  14.428   20.679   19514   &lt;a href=" https:="">1.0579   0.006   0.007   1.011   <a href="https://documentstare.org/">1.0579   0.006   0.007   0.007   0.002   0.002   0.201   0.270   0.005   0.007   0.003   0.007   0.003   0.007   0.003   0.007   0.005   0.007   0.005   0.007   0.005   0.007   0.005   0.007   0.005   0.007   0.005</a></a>	NAF-01_tt27	14.431	20.783	20.588	<0.007	<0.002	1.881	0.035	<0.005	0.007	0.636	<0.005	<0.006	>0.006	1.117	39.900
1.36    20.523   21.668   <0.007   0.023   1.120   0.181   0.013   0.024   0.499   0.007   0.022   0.009   0.327   0.327   0.327   0.328   0.430   0.411   0.039   0.414   0.005   0.206   0.017   0.039   0.414   0.005   0.006   0.410   0.005   0.018   0.018   0.005   0.006   0.410   0.302   0.414   0.404   0.005   0.005   0.006   0.006   0.411   0.005   0.005   0.006   0.006   0.006   0.911   0.4457   20.848   18.970   <0.007   0.003   2.454   0.140   <0.005   0.005   0.007   0.006   0.006   0.006   0.911   0.005   0.005   0.005   0.006   0.006   0.911   0.4457   0.4447	NAF-01_tit28	14.428	20.679	19.514	<0.007	0.043	2.021	0.270	0.006	0.007	1.011	<0.006	<0.007	0.012	1.325	39.440
14.36	NAF-01_tit29	14.391	20.523	21.658	<0.007	0.023	1.120	0.181	0.013	0.024	0.499	0.007	0.032	0.009	0.327	40.197
#4.378 20.667 21.212 <0.007 <0.002 1.280 0.011 <0.005 0.018 0.922 <0.005 <0.006 <0.006 0.302	NAF-01_tit3	14.360	19.258	20.311	<0.007	0.453	1.303	0.490	0.011	0.039	1.304	<0.005	0.263	900:0>	0.170	39.725
14.354 20.767 21.247 <0.007 <0.002 1.230 0.312 0.035 0.027 0.534 <0.006 <0.006 0.016 0.016 0.016 0.016 0.027 0.534 <0.006 <0.006 0.016 0.016 0.016 0.016 0.007 <0.007 <0.007 <0.007 <0.007 <0.007 <0.006 0.011 0.018 <0.007 <0.007 <0.006 0.011 0.019 0.007 <0.007 <0.006 <0.006 0.011 0.011 0.014 <0.007 <0.007 <0.006 <0.006 0.011 0.015 0.014 0.014 <0.007 <0.007 <0.006 <0.006 0.016 0	NAF-01_tit30	14.378	20.667	21.212	<0.007	<0.002	1.280	0.011	<0.005	0.018	0.922	<0.005	<0.006	900.0>	0.302	40.096
14.443 20.803 20.174 <0.007 <0.002 2.101 0.108 <0.005 0.006 0.613 <0.005 <0.006 0.911 14.457 20.848 18.970 <0.007 0.003 2.454 0.140 <0.004 <0.005 1.049 0.007 <0.006 <0.006 1.355 *all elements are in wt. % (EMPA).	NAF-01_tit31	14.354	20.767	21.247	<0.007	<0.002	1.230	0.312	0.035	0.027	0.534	<0.005	<0.006	900.0>	0.616	40.005
**all elements are in wt. % (EMPA).	NAF-01_tit32	14.443	20.803	20.174	<0.007	<0.002	2.101	0.108	<0.005	0.006	0.613	<0.005	>0.006	900.0>	0.911	39.954
*all elements are in wt. % (EMPA).		14.457	20.848	18.970	<0.007	0.003	2.454	0.140	<0.004	<0.005	1.049	0.007	>0.006	>0.006	1.355	39.459
	*all e	lements	are in w	t. % (E	MPA).											

Appendix C: Eastern Sunda arc titanite trace element chemistry (EMPA)

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Analysis ID	ï	Ca	ji.	Na	Mg	¥	>	ဝံ	Mn	Fe	Sr	>	Zr	ш	0
NAF-01_tit34	13.010	19.865	23.103	<0.007	<0.002	0.303	0.035	<0.005	0.048	0.472	>0.006	0.232	0.009	0.058	38.783
NAF-01_tit4	14.505	21.019	18.643	<0.007	<0.002	2.963	0.104	<0.005	<0.005	0.460	<0.005	<0.006	900.0>	1.800	39.453
NAF-01_tit5	14.402	20.689	20.062	<0.007	0.011	1.852	0.364	0.022	0.028	0.760	0.007	<0.006	0.010	0.766	39.815
NAF-01_tit6	13.494	20.044	22.730	<0.008	<0.002	0.495	0.034	<0.005	0.096	0.621	<0.005	0.114	0.011	0.050	39.321
NAF-01_tit7	14.508	20.739	19.570	<0.007	0.017	2.214	0.205	0.009	<0.005	0.938	<0.005	<0.007	0.010	1.295	39.697
NAF-01_tit8	13.629	20.734	20.443	<0.007	0.005	1.727	0.206	<0.005	0.010	0.719	<0.005	<0.006	>0.006	0.815	38.974
NAF-01_tit9	14.313	20.421	22.888	<0.007	<0.002	0.427	0.024	<0.005	0.069	0.738	0.007	0.066	0.025	<0.026	40.428
SLG-02_tt1	13.661	20.492	22.434	<0.007	<0.002	0.711	0.056	<0.005	0.014	0.549	<0.005	0.007	0.030	<0.026	39.570
SLG-02_tit10	14.482	20.657	20.716	<0.007	0.014	1.525	0.055	0.006	0.013	1.220	<0.005	<0.006	>0.006	0.160	40.273
SLG-02_tt11	14.316	20.625	20.891	<0.007	<0.002	1.040	0.031	<0.005	0.014	1.661	>0.006	<0.007	0.010	0.101	39.876
SLG-02_tt12	14.429	20.663	21.374	<0.007	<0.002	1.235	0.127	0.032	0.014	0.877	0.007	<0.006	0.013	0.150	40.347
SLG-02_tt13	14.445	20.697	21.860	<0.007	<0.002	1.020	0.061	<0.005	0.009	1.025	<0.005	<0.006	0.013	0.072	40.537
SLG-02_tt114	14.355	20.610	22.089	<0.007	<0.002	0.726	0.068	<0.005	0.008	0.985	<0.005	<0.006	900.0>	<0.026	40.311
SLG-02_tt15															
SLG-02_tit16															
SLG-02_tt17															
SLG-02_tit18															
SLG-02_tt2	13.547	20.488	21.493	<0.007	<0.002	1.011	0.102	<0.005	0.018	1.011	<0.005	<0.006	0.007	0.027	39.212
SLG-02_tt3	14.352	20.641	21.203	<0.007	<0.002	1.177	0.113	<0.005	0.025	1.130	<0.005	0.013	900.0>	0.051	40.192
SLG-02_tit4	14.357	20.493	21.171	<0.007	<0.002	1.188	0.218	<0.005	0.033	1.043	<0.005	0.036	0.008	0.054	40.150
SLG-02_tit5	14.351	20.703	21.982	<0.007	<0.002	0.897	0.136	<0.005	0.020	0.741	0.009	0.025	0.008	0.080	40.369
SLG-02_tit6	14.624	20.266	21.214	<0.007	0.041	1.307	0.154	<0.005	0.011	0.602	<0.005	<0.006	0.013	0.282	40.259
SLG-02_tt7	14.359	20.550	22.403	<0.007	<0.002	0.672	0.023	<0.004	0.015	0.708	<0.005	0.013	>0.006	<0.025	40.364
SLG-02_tit8	14.280	20.621	21.102	<0.007	0.003	1.344	0.087	0.005	0.022	0.916	<0.005	<0.006	0.012	0.043	40.095
SLG-02_tit9	14.320	20.612	21.647	<0.007	<0.002	0.959	0.113	<0.005	0.028	0.966	<0.005	0.014	0.020	0.042	40.203
SING-01_tt_1	14.371	20.400	21.328	<0.007	900:0	1.171	0.139	<0.005	0.017	0.824	<0.005	0.034	0.007	0.555	39.911
SING-01_tit_2	14.358	20.692	20.724	<0.007	0.015	1.427	0.233	<0.005	0.030	1.072	<0.005	<0.007	<0.006	1.025	39.743
SING-01_tit_3	14.322	17.096	18.709	<0.007	1.252	1.591	060'0	<0.005	0.049	3.035	<0.005	0.068	0.016	0.209	38.795
SING-01_tit_4	14.515	20.594	21.818	<0.007	<0.002	1.091	960'0	<0.005	0.011	0.643	<0.005	<0.006	<0.006	0.426	40.361
SING-02_tit_1	14.794	21.211	12.920	<0.007	0.028	6.422	0.156	<0.004	0.074	0.188	<0.005	<0.006	<0.006	4.831	37.809
SING-02_tit_2	15.022	20.898	15.576	0.021	0.035	4.696	0.186	<0.005	0.028	0.136	<0.005	0.071	<0.006	3.430	38.799
SING-02_tit_3	14.831	21.396	14.233	<0.007	0.010	5.709	0.111	<0.004	0.025	0.136	<0.005	0.062	>0.006	4.294	38.346
SING-02_tit_4	15.022	21.146	14.323	0.016	0:030	5.473	0.182	0.019	0.024	0.143	0.008	0.076	<0.006	4.084	38.475
SING-02_tit_5	15.031	21.245	11.938	<0.007	0.019	6.964	0.145	<0.004	0.006	0.077	<0.005	<0.006	<0.006	5.085	37.744
SING-02_tit_6	15.005	19.704	13.177	0.010	0.243	6.293	0.162	<0.004	0.108	0.252	<0.005	0.146	<0.006	4.502	37.864
SING-02_tt_7	14.828	21.207	13.320	<0.007	0.052	6.108	0.187	<0.005	0.140	0.139	<0.005	0.023	<0.006	4.520	38.010
SING-02_tit_8															
SING-02_tit_9															
SLG-03_tt_1	14.250	20.554	21.180	<0.007	0.054	0.928	0.204	0.010	0.048	1.415	<0.005	0.014	0.023	0.248	39.888
SLG-03_tit_10															
SLG-03_tt_11															
SEG-03-01-12						6							9		
SLG-03_ut_2	14.112	20.073	21.079	<0.007	0.017	0.990	0.180	<0.005	0.058	2.12/	<0.005	0.011	<0.006	0.280	39.674
SEG-03-111-3	14.202	20.370	016.12	×0.007	0.003	0.034	0.132	0.011	0.045	612.1	500.0	>0.00	0.04	0.199	39.010
SLG-03_tit_4	14.400	20.625	22.764	<0.007	<0.002	0.581	0.107	<0.005	0.021	0.513	<0.006	<0.006	0.027	<0.026	40.579
SLG-03_tt_5	14.196	20.190	21.851	0.012	9000	0.862	0.156	<0.005	0.034	0.744	<0.005	0.307	0.050	0.120	40.061
SLG-03_tit_6	14.366	19.080	19.129	0.017	0.275	1.833	0.259	900.0	0.100	2.279	<0.005	<0.006	0.012	0.421	39.225
SLG-03_tit_7	14.515	20.581	21.775	<0.007	0.052	1.037	0.196	<0.005	0.019	0.711	<0.005	0.025	0.022	0.151	40.516
SLG-03_tit_8	14.376	20.033	20.231	600.0	0.107	1.366	0.247	<0.005	0.076	1.892	<0.005	<0.006	0.011	0.408	39.698
SLG-03_tit_9	14.472	20.598	22.639	0.011	0.008	0.635	0.143	<0.005	0.014	0.524	<0.005	<0.006	0.022	0.048	40.621
*all e	*all elements are in wt.	are in wt	t. % (EMPA	MPA).											

Appendix C: Eastern Sunda arc titanite trace element chemistry (EMPA)

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Analysis ID	Si	Ca	П	Na	Mg	ΑI	^	Cr	Mn	Fe	Sr	<b>&gt;</b>	Zr	F	0
BHF-02_tit7	14.211	20.067	21.259	<0.007	0.010	0.999	0.091	<0.005	0.209	2.029	<0.005	<0.007	>0.006	0.453	39.797
BHF-02_tit1	14.491	20.483	20.546	<0.007	0.009	1.831	0.073	<0.005	0.079	0.671	<0.005	0.043	900.0>	1.345	39.778
BHF-02_tit10	14.527	20.491	21.759	<0.007	<0.002	0.885	0.062	<0.005	0.069	1.086	<0.005	<0.007	900.0>	0.292	40.297
BHF-02_tit11	13.566	19.527	20.582	<0.007	0.013	1.294	0.056	<0.005	0.058	3.772	<0.006	<0.007	>0.00	0.737	38.982
BHF-02_tit12	14.512	20.486	20.884	<0.007	0.004	1.549	0.085	<0.005	0.045	0.718	200.0	<0.006	>0.00	0.858	39.947
BHF-02_tit13	14.571	20.524	20.170	<0.007	0.017	1.839	0.083	<0.005	0.077	0.911	<0.005	0.016	0.010	1.119	39.792
BHF-02_tit14	14.526	20.626	21.440	<0.007	<0.002	1.158	0.107	<0.005	0.037	0.756	<0.005	0.054	>0.006	0.441	40.252
BHF-02_tit15	14.595	20.514	21.838	0.010	0.008	1.002	0.091	<0.005	0.038	0.719	0.010	<0.006	900.0>	0.412	40.407
BHF-02_tit16															
BHF-02_tit2	14.435	20.532	21.527	<0.007	<0.002	1.382	0.076	<0.005	0.040	0.716	<0.005	<0.006	>0.006	0.850	40.159
BHF-02_tit3	14.459	20.456	22.206	<0.007	0.017	0.758	0.047	<0.005	0.056	0.744	>0.006	<0.007	>0.006	0.449	40.241
BHF-02_tit4	14.433	20.475	21.718	<0.007	0.004	1.084	0.062	<0.005	0:030	0.830	<0.005	<0.007	>0.006	0.562	40.146
BHF-02_tit5	14.374	20.441	21.165	<0.007	900.0	0.984	0.148	0.005	0.102	1.589	<0.005	<0.006	>0.006	0.444	39.936
BHF-02_tit6	14.421	20.500	20.852	<0.007	900.0	1.501	0.062	<0.005	0.039	1.211	<0.005	<0.007	>0.006	0.900	39.896
BHF-02_tit8	14.476	20.476	21.138	<0.007	900.0	1.395	0.116	<0.005	0.035	0.769	<0.005	<0.006	>0.006	0.897	39.953
BHF-02_tit9	14.427	20.517	22.400	<0.007	<0.002	0.726	0.023	<0.005	0.028	0.415	<0.005	<0.006	0.009	0.399	40.221
JER-01_tit1	11.968	16.758	25.490	0.015	0.029	2.559	0.216	0.010	0.022	0.400	<0.005	0.208	0.026	1.409	39.374
JER-01_tit10	14.167	19.797	21.868	<0.007	0.052	1.920	0.057	<0.005	0.020	0.190	>0.006	<0.007	0.042	0.305	40.383
JER-01 tit11	14.567	20.238	20.219	<0.007	<0.002	1.922	0.069	0.010	0.014	0.203	0.011	0.008	0.020	0.842	39.652
JER-01 tit12	13.792	21.778	19.103	0.010	0.008	2.127	0.080	<0.005	0.017	0.207	0.007	<0.007	0.024	1.232	38.667
JER-01 tif13	14.714	20.658	20.356	<0.007	<0.002	2.135	0.078	0.012	0.016	0.220	<0.005	<0.006	0.024	0.973	40.223
JEB-01 tit14	14 515	20.869	19 872	<0.007	0 044	2.261	0.072	0.010	0.015	0 274	<0.005	>0.006	0.022	1.066	39.870
.IEB-01 ##15	14 600	20 278	20 490	<0.007	0 00	2.256	0 118	2000	0.011	0.418	<0.005	>0.006	0.018	0.719	40.329
JEB-01 titl6	14 232	19.655	20.850	600.0	0.254	2.567	0.130	9000	0.020	0.543	0.011	0.020	0.028	1.179	40 194
EB-01 ##17	14 686	20.617	20 500	<0.007	0003	2 201	0.042	2.000 40.005	0.020	0.222	40 00F	0.025	0.023	10.5	40.358
JER-01 ##18	000:±	20.02	20.300	00.07	0000	67.7	0.042	0000	20.0	0.222	200.07	0.020	500	200.	40.330
2 2 2 2		1	00	0	0	000	0	9	5	3		000	000		6
JEK-01_IIIZ	45.54	20.057	20.494	0.009	<0.002	1.099	0.062	0.019	0.017	0.181	<0.005	<0.007	0.032	0.771	39.591
JER-01_tit3	14.494	20.188	21.053	0.009	<0.002	1.740	0.058	0.007	0.00	0.197	<0.00>	<0.006	0.022	0.79	39.961
JER-01_tit4	12.363	17.217	26.304	<0.007	<0.002	2.115	0.140	0.008	0.015	0.231	<0.005	0.011	0.030	1.197	40.072
JER-01_tit5	11.018	15.638	28.441	<0.007	0.063	2.323	0.174	<0.005	0.021	0.367	0.013	0.007	0.022	0.654	39.840
JER-01_tit6	14.634	20.733	20.156	<0.007	0.018	2.245	0.062	0.009	0.013	0.243	<0.005	<0.006	0.023	0.985	40.128
JER-01_tit7	14.713	20.793	19.972	<0.007	0.003	2.440	0.051	<0.005	0.010	0.224	<0.005	<0.007	600.0	1.218	40.162
JER-01_tit8	14.534	20.412	19.937	<0.007	0.005	2.482	0.062	<0.005	0.015	0.267	700.0	<0.006	0.027	1.258	39.832
JER-01_tit9	14.712	20.481	20.712	<0.007	<0.002	1.902	0.071	<0.005	0.016	0.171	<0.005	0.009	0.026	0.827	40.226
LB018_tit1	14.307	20.558	18.872	<0.007	<0.002	0.139	0.059	<0.004	0.009	0.045	<0.004	0.011	0.007	0.106	37.236
LB018_tit2	14.651	20.756	18.879	<0.007	0.005	3.034	0.035	<0.005	0.022	0.334	<0.005	<0.006	0.008	2.472	39.377
LB018_tit3															
LB018_tlf4															
LB018_tit5															
LB022_tit1	14.488	20.111	19.582	0.022	0.004	1.318	0.269	<0.005	<0.005	1.816	<0.005	0.115	0.302	0.698	39.438
LB022_tit2															
LB029_tit1	14.622	20.345	19.824	0.017	0.013	1.355	0.116	<0.005	0.071	1.896	0.012	0.014	0.034	0.707	39.612
LB029_tit2	13.787	19.157	18.939	<0.007	0.005	1.312	0.193	<0.005	0:030	1.718	<0.005	0.286	0.033	0.823	37.614
LB036_tit1	14.275	19.923	22.419	<0.007	0.007	0.297	0.052	<0.005	0.134	1.140	<0.005	0.044	0.233	0.222	39.921
LB036_tit2	14.143	19.576	22.637	0.013	0.020	0.304	0.054	<0.005	0.144	0.847	>0.006	0.299	0.101	0.137	39.822
*	*all elements are in wt. % (EMPA)	re in wt	% (EI	(IPA).											
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Appendix C: Eastern Sunda arc titanite trace element chemistry (LA-ICP-MS)

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Analysis ID	₹	Š		Uy								INI		
LB014_322_tit1	2739.90	207261.64	1778.49	218.19	133.12	54.27	239.69	98.02	43.74	606.35	15.24	1390.94	502.90	1090.62
LB014_322_tit10	2759.56	207348.36	2967.04	352.07	205.58	81.27	404.85	46.99	70.23	1058.07	21.83	1125.79	407.96	1773.17
LB014_322_tit11	3622.00	200480.86	6443.14	806.13	448.01	202.87	925.36	29.63	155.53	1530.99	44.91	1293.11	937.29	4431.35
LB014_322_tit12	3407.73	207096.23	3014.09	405.17	232.38	104.76	447.50	77.68	80.16	847.05	25.21	1470.07	791.84	2012.25
LB014_322_tit13	2302.82	205589.73	2534.86	301.12	184.35	88.54	310.49	78.61	59.85	875.16	21.74	1520.37	680.08	1449.10
LB014_322_tit14	3016.96	202588.41	5235.02	529.47	284.71	118.54	648.41	64.51	100.07	1686.76	25.38	1439.56	1459.00	3184.92
LB014_322_tit15	2617.85	206137.34	3745.43	267.47	160.83	130.21	329.20	42.87	54.02	1181.31	20.75	1514.38	446.51	1983.89
LB014_322_tit16	11163.02	210456.63	193.75	7.75	5.17	44.69	10.19	2.26	1.64	167.33	1.52	510.08	43.89	26.70
LB014_322_tit17	3554.34	207346.58	1650.25	225.76	136.43	99.99	235.63	103.50	45.29	581.09	18.27	1237.72	183.38	992.36
LB014_322_tit18	3048.86	210186.89	2098.65	303.66	170.09	86.08	319.54	32.77	58.51	594.85	19.74	1385.06	297.70	1451.03
LB014_322_tit2	6776.88	204529.19	5081.64	496.34	287.31	194.51	595.43	50.62	66.96	1200.98	32.95	986.23	477.43	3156.66
LB014_322_tit20	3041.96	211091.81	1527.23	229.72	133.38	10.09	249.90	25.60	45.24	431.58	14.36	1360.84	176.75	1087.28
LB014_322_tit21	3080.13	200519.53	7514.32	747.85	451.46	75.62	830.77	179.67	149.50	2001.06	53.16	1738.46	3213.37	4396.97
LB014_322_tit22	2784.80	212267.47	233.24	28.72	23.80	12.75	26.17	66.10	6.29	98.20	6.24	1524.54	317.14	114.62
LB014_322_tit23	2977.45	206250.32	4118.72	432.63	237.97	91.89	517.43	85.47	82.60	1361.49	21.87	1285.16	490.70	2501.84
LB014_322_tit3	2918.31	208400.94	1937.11	189.30	114.25	63.36	212.16	70.77	38.29	718.84	14.71	1298.52	332.24	1047.85
LB014_322_tit4	3001.02	210011.55	242.93	21.01	14.40	4.56	23.77	10.25	4.48	105.08	2.39	1567.83	18.36	117.63
LB014_322_tit5	3059.49	206912.95	2885.09	280.06	167.55	98.46	331.86	41.35	56.19	898.89	19.42	1462.33	389.52	1671.56
LB014_322_tit6	2469.22	210794.23	1036.75	135.06	85.02	42.23	144.61	38.13	27.83	416.06	12.72	1426.27	151.53	604.70
LB014_322_tit7	3144.85	206079.60	3000.43	289.69	174.64	84.53	327.03	106.36	57.75	1117.23	19.56	1401.59	667.10	1575.51
LB014_322_tit8	14001.39	215341.07	41.97	0.53	0.38	9.27	0.64	1.76	0.09	51.93	0.14	136.21	94.10	5.42
LB014_322_tit9	9396.91	213510.95	622.79	18.78	13.04	85.30	24.19	1.48	4.03	352.52	4.08	397.63	202.26	191.24
LB025_323_tit1	60354.07	212394.45	52.12	26.43	14.79	10.31	19.71	18.39	4.84	10.08	2.14	390.38	60.56	58.80
LB025_323_tit10	52986.92	229145.09	65.47	26.47	14.67	8.46	29.12	19.77	5.29	17.83	1.56	414.91	83.49	74.45
LB025_323_tit11	54353.77	219439.19	57.21	16.00	9.62	8.35	16.09	10.33	3.08	10.22	1.31	417.84	99.05	54.79
LB025_323_tit12	26440.04	166925.76	23.98	14.98	8.25	6.02	15.20	16.49	2.98	3.36	1.24	2935.88	80.47	38.60
LB025_323_tit2	57197.03	216969.54	31.00	30.46	17.85	8.85	22.68	15.76	5.71	6.91	2.33	227.59	84.42	43.03
LB025_323_tit3	82057.14	168032.72	7.35	25.23	17.25	4.27	14.75	9.13	5.34	1.65	2.54	1473.41	85.13	10.80
LB025_323_tit4	57098.78	220946.36	99.15	30.56	22.71	6.44	22.52	6.43	6.65	28.90	3.94	193.86	108.90	62.42
LB025_323_tit5	53842.21	217939.60	51.48	24.27	13.19	7.71	20.44	8.15	4.58	11.53	1.55	206.49	100.00	52.60
LB025_323_tit6	73469.60	212102.12	21.48	2.83	1.47	2.31	3.41	12.43	0.51	9.61	0.24	1679.07	59.82	12.35
LB025_323_tit7	9791.89	197382.95	22.87	19.96	10.71	4.35	22.28	13.53	3.22	7.84	0.96	2781.84	90.59	28.62
LB025_323_tit8	56410.47	222649.57	31.02	33.91	22.70	8.84	21.13	4.76	6.74	7.02	3.37	176.09	81.06	39.22
LB025_323_tit9	32901.31	215279.50	29.96	32.72	20.82	9.12	34.08	8.31	6.92	15.89	2.96	569.32	95.67	103.17
LB037_329_tit1	3616.75	211863.35	403.42	19.76	13.98	16.28	21.04	11.48	4.20	265.38	2.79	1359.95	126.15	140.74
LB037_329_tit10	2074.57	208316.83	1381.67	504.64	291.10	83.27	473.95	58.10	100.93	404.05	24.29	1267.88	853.86	1220.32
LB037_329_tit11	3824.79	210053.51	994.02	164.59	101.20	34.90	177.24	34.28	33.46	383.78	12.15	1106.19	261.94	624.83
LB037_329_tit12	4163.16	213321.95	384.02	35.84	21.44	13.36	40.75	6.59	7.31	208.95	3.33	884.07	146.78	194.11
LB037_329_tit13	2788.04	202586.70	3384.95	836.12	510.15	171.99	828.12	98.99	169.71	857.19	53.77	1424.04	788.94	2699.10
LB037_329_tit14	2406.99	209714.86	950.04	292.02	172.44	54.41	271.51	30.94	58.23	307.01	17.84	1513.10	316.76	757.24
LB037_329_tit15	3580.15	211489.78	04.70	54.85	35.42	38.21	59.34	15.86	11.24	511.11	4.63	1234.08	613.43	344.46
LB037_329_tit16	2597.31	210385.47	910.79	281.04	162.29	80.38	274.98	43.95	26.07	278.94	15.81	1444.96	162.13	774.08
LB037_329_tit17	3193.90	211970.26	282.88	59.31	45.02	31.98	51.07	55.50	13.65	115.93	7.65	1167.96	209.24	164.36
LB037_329_tit18	2248.15	210061.19	798.20	122.87	73.38	42.80	137.11	38.62	25.26	274.12	9.00	1488.23	204.99	513.30
LB037_329_tit19	2271.13	210602.10	1399.45	246.14	149.39	68.47	244.86	46.76	50.88	533.96	16.07	1003.82	66.07	897.09
LB037_329_tit2	2292.98	209685.36	1419.71	161.28	100.89	74.42	175.96	57.92	33.49	513.05	15.88	1319.65	175.34	764.23
LB037_329_tit20	2833.37	209338.62	1844.25	497.98	266.62	86.40	551.88	58.53	96.57	556.45	23.38	1156.98	334.15	1552.69
LB037_329_tit21	3145.14	210467.39	360.78	107.64	69.04	23.61	102.91	179.66	22.89	124.86	9.07	1536.98	109.26	287.03
LB037_329_tit22	2607.91	212142.91	582.75	36.82	21.91	26.89	44.70	24.32	7.32	249.08	3.20	1445.75	378.85	268.04
LB037_329_tit23	3725.53	208991.82	1108.79	351.71	219.14	72.06	317.01	55.85	72.53	363.21	23.85	1180.47	188.05	853.62
*all	*all elements are		in ppm.											
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Appendix C: Eastern Sunda arc titanite trace element chemistry (LA-ICP-MS)

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Analysis ID	Al	Ca	Ce	Dy	Er	Eu	PS	Hf	Но	La	Lu	Mn	Nb dN	Nd
LB037_329_tit24	2830.14	209450.60	860.91	217.55	132.43	66.18	210.30	41.49	44.56	272.51	14.87	1353.36	177.38	644.26
LB037_329_tit25	1711.99	209829.57	662.48	161.77	95.28	36.21	162.10	36.79	32.51	239.48	10.30	1192.86	136.37	489.78
LB037_329_tit26	2416.29	208097.31	2282.41	286.85	177.66	97.62	308.62	29.50	59.05	742.44	22.65	1876.37	379.90	1301.80
LB037_329_tit27	3867.52	212218.44	281.92	105.89	67.02	19.98	88.06	4.78	22.13	113.86	10.54	788.77	32.95	199.73
LB037_329_tit28	3284.42	212979.99	354.88	90.10	60.05	26.21	81.69	39.44	19.13	125.07	9.83	1374.97	141.47	245.59
LB037_329_tit29	3341.54	206565.42	3104.21	864.13	479.82	103.06	867.50	60.71	170.04	809.05	42.39	1243.74	515.83	2655.78
LB037_329_tit3	3413.45	210575.63	1086.54	227.87	142.14	66.72	210.91	37.70	47.03	395.26	19.13	1238.06	171.16	705.29
LB037_329_tit30	3405.42	213296.91	267.40	36.15	21.09	11.37	38.46	15.38	7.25	117.24	2.50	1172.63	82.17	146.62
LB037_329_tit31	2749.53	210586.98	1098.57	53.12	34.89	47.14	59.51	15.12	11.03	462.51	6.71	1254.93	232.79	391.39
LB037_329_tit32	2753.46	210049.14	418.84	19.36	10.79	9.19	32.80	12.18	3.88	219.43	1.1	1536.10	211.16	197.75
LB037_329_tit33	3613.03	210022.02	1233.37	357.46	216.80	80.14	350.12	71.19	72.94	383.53	22.64	1053.81	97.33	1012.97
LB037_329_tit34	2945.01	207788.23	1667.56	321.53	181.50	73.78	345.23	61.94	64.46	22.609	17.72	1198.75	184.41	1152.12
LB037_329_tit35	2772.44	208943.39	1367.70	403.72	245.06	59.02	395.72	96.36	81.49	425.92	25.74	1332.49	498.38	1096.27
LB037_329_tit36	3030.87	208796.29	1629.39	436.77	264.15	86.65	406.04	62.09	87.46	472.98	25.48	1100.77	256.11	1296.75
LB037_329_tit37	3351.80	212521.12	228.26	44.14	31.89	21.16	41.34	62.76	9.61	109.56	5.43	1226.58	25.95	140.72
LB037_329_tit38	2653.38	212377.91	1186.99	89.79	56.28	47.57	109.68	12.33	18.52	475.99	7.40	1255.01	127.30	570.62
LB037_329_tit39	3311.51	209433.29	591.16	202.97	142.59	86.78	173.52	153.27	43.81	172.89	22.00	1313.54	353.34	473.57
LB037_329_tit4	3489.92	212454.45	917.17	225.31	148.36	51.16	195.43	14.27	47.68	293.22	21.24	1042.97	117.44	561.72
LB037_329_tit40	3118.87	208762.23	1461.55	167.72	110.77	57.33	165.11	60.23	35.27	610.28	15.22	1328.62	525.12	729.35
LB037_329_tit41	2755.78	209061.41	1368.05	390.73	247.60	76.21	357.82	63.36	82.87	431.04	25.94	1358.46	180.90	1031.80
LB037_329_tit5	8015.44	214608.42	75.53	116.23	72.29	17.04	113.11	2.23	24.08	8.16	8.61	569.30	136.78	171.40
LB037_329_tit6	2348.05	211663.32	278.67	98.96	70.76	33.83	80.37	23.99	21.49	99.42	12.61	1411.47	203.68	208.00
LB037_329_tit7	2989.36	212663.70	54.53	21.12	14.22	3.67	19.91	12.25	4.37	21.79	3.15	1069.26	0.51	45.27
LB037_329_tit8	2559.78	209702.93	1077.70	302.30	173.65	26.07	298.42	20.83	59.15	329.86	16.57	1067.15	263.40	848.49
LB037_329_tit9	27373.89	217911.65	15.35	1.29	1.20	2.89	1.14	1.05	0.34	17.78	0:30	223.98	78.78	4.03
LB042_331_tit1	18747.02	214294.71	223.11	33.76	23.05	8.56	34.91	14.98	7.20	84.04	4.07	129.29	77.51	127.44
LB042_331_tit2	7669.06	214731.47	299.20	62.87	40.56	14.57	58.54	26.31	13.51	96.71	6.42	620.91	78.75	206.32
ELF-03_333_tit1	35934.83	212951.67	35.60	4.78	3.29	3.89	3.80	0.93	0.98	6.88	0.47	94.26	66.34	17.61
ELF-03_333_tit2	16366.05	217625.00	0.12	0.03	0.08	0.02	0.10	0.20	0.01	0.07	0.02	10.33	15.09	0.05
ELF-03_333_tit3	34503.84	220796.29	43.12	9.17	4.75	7.00	12.18	0.72	1.77	5.00	0.92	43.68	93.41	46.75
ELF-03_333_tit4	27488.46	203501.24	4.23	3.18	2.12	1.08	2.52	2.74	0.76	1.54	0.51	254.78	26.09	3.56
ELF-03_333_tit5	31277.23	215493.04	68.53	41.73	40.67	9.29	21.91	0.61	11.60	14.76	7.90	66.46	87.35	42.62
ELF-03_333_tit6	34871.27	188562.08	24.95	40.50	32.74	7.00	26.21	0.81	9.45	4.61	6.45	591.44	80.16	28.85
ELF-03_333_tit7	41330.77	220433.99	26.83	3.39	2.90	1.85	2.45	99.0	0.81	9.44	0.70	61.33	60.18	7.79
ELF-03_333_tit8	46501.52	222078.31	87.39	21.73	28.37	7.84	14.40	0.33	6.58	14.14	7.54	72.88	64.02	65.11
SPF-05_336_tit1	17768.29	211653.05	856.42	478.72	329.15	47.74	424.38	1.22	108.30	69.77	42.15	266.95	74.98	1316.44
SPF-05_336_tit10	23113.39	213837.25	418.15	159.40	103.83	21.99	122.94	11.49	32.66	92.71	16.50	672.85	129.97	298.51
SPF-05_336_tit2	10333.96	217783.93	190.42	57.79	34.68	11.43	55.67	6.40	12.19	37.60	4.10	121.31	41.32	172.00
SPF-05_336_tit3	16368.05	216964.08	624.27	104.29	63.59	18.97	134.27	0.91	21.79	89.43	11.89	239.48	48.21	590.34
SPF-05_336_tit4	15549.16	212337.59	782.66	1014.10	723.54	49.42	736.84	2.05	229.31	75.18	101.64	150.83	63.33	1279.45
SPF-05_336_tit5	12243.59	212427.59	1883.12	239.61	171.91	34.21	256.58	4.60	53.13	523.03	33.83	482.55	72.14	1263.82
SPF-05_336_tit6	14820.80	207389.64	472.51	1635.22	1073.75	115.31	1228.83	0.57	356.89	22.42	99.40	217.05	36.71	1981.73
SPF-05_336_tit7	23410.08	114384.32	28.00	10.52	7.80	2.25	8.06	0.35	2.16	8.06	1.54	358.00	102.67	18.56
SPF-05_336_tit8	15800.71	205700.09	624.35	524.41	420.72	35.55	376.34	1.93	123.33	92.80	76.60	375.38	72.77	569.86
SPF-05_336_tit9	32376.07	183639.60	42.88	47.45	29.83	7.05	39.35	2.11	10.37	8.48	1.12	95.80	79.06	58.99
NEF-02_337_tirt	30592.16	214975.99	384.53	131.78	64.04	135.56	202.38	0.41	24.73	31.62	7.34	422.93	155.41	827.20
NEF-02_337_tit2	28038.92	213614.15	283.05	69.76	69.16	37.55	93.26	19.56	22.01	62.66	10.34	521.85	106.83	215.28
NEF-02_337_tit3	25360.91	208950.12	417.62	248.14	158.55	40.48	213.76	17.38	51.74	75.21	22.49	297.90	89.68	438.47
NEF-02_337_tit4	34782.91	218593.07	330.84	170.05	111.08	25.85	145.88	0.82	37.00	40.45	12.21	155.63	98.31	394.85
NEF-02_337_tit5	24838.44	212611.61	192.76	116.96	86.56	12.04	85.56	53.02	24.93	37.36	17.49	129.10	196.84	166.56
#all	*all elements are	ts are in	ppm.											

Appendix C: Eastern Sunda arc titanite trace element chemistry (LA-ICP-MS)

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Analysis ID	A	Ca	Se	Dy	Ēŗ	Eu	PS	Ŧ	유	La	Lu	Mn	ФN	PZ
ELF-01_tit1	27021.86	217240.49	76.95	16.65	14.96	15.88	12.89	7.73	4.01	20.25	3.31	163.70	119.46	44.71
ELF-01_tit10	45378.36	216184.47	27.48	7.39	5.02	6.13	6.31	2.62	1.45	12.70	1.03	411.14	113.45	15.22
ELF-01_tit11	27806.11	216906.87	25.02	4.66	4.31	3.96	5.97	1.40	1.15	5.70	1.09	85.28	91.41	18.68
ELF-01_tit12	25417.62	219475.33	26.35	29.80	22.68	18.26	22.19	0.61	6.82	5.37	3.13	76.88	124.36	43.60
ELF-01_tit13	27080.38	214723.06	32.51	89.99	51.87	9.12	38.14	96.0	15.20	6.38	60.6	137.77	90.89	40.31
ELF-01_tit14	31782.66	211325.11	98.89	31.73	28.39	5.93	23.15	4.63	7.70	15.41	6.40	83.95	113.94	50.35
ELF-01_tit15	42939.20	186832.39	426.04	74.88	45.86	29.32	83.36	1.33	15.16	83.59	7.12	517.10	68.83	332.43
ELF-01_tit16	26107.02	142312.09	191.26	74.35	65.69	20.26	56.46	1.89	17.74	51.80	15.58	202.15	104.65	111.72
ELF-01_tit2	24917.16	218898.83	15.70	2.77	4.51	2.87	8.73	1.38	1.27	2.58	0.94	70.13	59.43	24.01
ELF-01_tit3	24987.93	218142.75	137.69	11.54	9.07	13.30	13.09	0.48	2.66	38.46	1.75	99.49	49.69	75.36
ELF-01_tit4	30730.70	206450.72	02.99	641.12	544.09	21.56	349.43	3.59	164.20	23.33	100.64	83.11	78.42	52.54
ELF-01_tit5	26977.16	214919.97	20.73	39.18	34.36	5.16	21.43	0.67	9.92	4.80	5.53	130.42	110.49	18.81
ELF-01_tit6	29415.26	219818.20	39.22	31.69	24.33	9.67	16.83	0.62	7.26	10.18	4.88	125.16	109.36	22.42
ELF-01_tit7	32149.32	218428.87	79.47	66.74	50.00	14.18	45.63	1.01	15.30	14.66	9.39	71.75	68.15	71.46
ELF-01_tit8	36257.28	201968.98	691.45	999.58	642.48	69.88	772.62	4.17	208.19	80.12	79.68	113.95	79.52	1166.03
ELF-01_tit9	33303.38	217981.60	16.07	3.91	3.29	2.55	2.51	2.77	0.87	8.28	0.97	144.59	84.41	7.38
LB026_tit1	21653.78	215881.51	60.93	16.03	12.39	6.01	15.17	1.20	3.54	18.18	2.19	60.58	70.23	40.47
LB026_tit2	22577.93	217318.19	66.02	6.95	5.42	5.02	7.29	2.96	1.54	21.38	1.45	63.65	202.37	30.35
LB026_tit3	5443.59	210411.24	672.95	115.53	83.13	44.40	94.74	52.45	25.82	293.85	12.53	561.73	221.93	352.76
LB026_tit4	13375.65	144396.95	166.82	31.63	16.48	8.80	36.36	2.82	5.71	36.63	1.61	300.60	128.02	135.45
LB026_tit5	5756.98	212749.79	313.44	12.26	7.08	20.62	11.97	49.64	2.40	136.83	1.05	449.40	270.56	112.45
LB026_tit6	19811.03	139804.82	80.53	59.01	35.05	4.36	64.00	6.48	11.93	13.66	3.68	205.96	332.94	138.59
LB026_tit7	13770.64	151430.46	216.16	63.16	41.60	11.53	64.60	5.82	13.72	50.06	5.21	209.65	256.64	175.13
NAF-01_tit1	7544.19	213151.81	97.30	15.85	10.65	7.32	17.22	7.97	3.41	23.70	1.57	425.70	34.32	66.53
NAF-01_tit10	22953.36	220133.73	0.24	2.25	1.55	0.26	2.02	6.11	0.49	0.02	0.15	27.04	372.13	1.71
NAF-01_tit11	17836.38	217582.14	20.87	5.66	3.27	4.52	6.04	0.83	1.16	3.20	0.45	123.71	206.09	20.37
NAF-01_tit12	26009.38	215891.12	3.51	1.74	0.86	0.95	2.17	1.42	0.40	0.45	0.15	46.52	271.08	5.40
NAF-01_ttt13	17161.84	211613.50	25.50	413.99	394.87	8.53	176.94	12.05	105.95	3.05	66.65	220.46	119.81	64.55
NAF-01_tt114	11438.23	211367.41	630.41	365.25	245.39	53.17	371.94	1.03	79.46	76.87	33.77	340.53	36.06	941.21
NAF-01_tit15	19055.12	216759.61	26.35	26.54	23.42	12.24	18.66	1.99	6.40	4.21	4.06	227.16	132.73	34.64
NAF-01_tit16	18311.40	216308.53	16.60	18.25	13.10	5.01	17.39	0.37	4.02	2.47	3.04	210.46	60.94	26.25
NAF-01_tit17	33931.61	219720.54	0.03	0.03	0.01	0.18	0.01	0.73	0.03	0.01	0.00	10.50	396.47	0.05
NAF-01_tit18	19515.59	217441.60	1.48	2.56	1.56	1.00	2.80	1.58	0.59	0.20	0.24	84.71	89.36	3.63
NAF-01_tit19	21510.89	216110.54	1.04	3.85	2.26	0.54	3.58	0.52	0.77	0.09	0.20	98.63	54.37	2.69
NAF-01_tit2	20458.96	218283.98	29.73	16.75	10.45	7.43	14.73	2.94	3.34	4.83	1.58	207.02	408.46	37.07
NAF-01_tit20	12414.60	213635.45	142.92	69.83	50.18	19.03	74.97	2.56	16.18	18.98	6.65	445.79	58.92	195.41
NAF-01_tt21	26476.77	217510.05	0.14	0.56	0.41	0.21	0.38	1.66	0.12	0.01	0.08	13.78	210.04	0.25
NAF-01_tt22	21670.34	214447.34	5.28	3.76	2.89	3.78	2.74	0.40	0.90	0.96	0.39	246.83	200.70	6.07
NAF-01_tt23	12393.51	197866.81	43.22	3101.99	2207.57	77.29	1482.84	21.97	710.38	4.29	248.31	262.82	66.08	191.58
NAF-01_tt24	21299.20	211687.77	5.38	0.78	0.67	0.88	1.14	0.13	0.18	0.00	0.19	195.16	4.41	4.67
NAF-01_tt25	18913.76	213994.77	28.29	3.46	1.74	6.11	4.90	28. 1	0.78	5.46	0.23	182.37	158.90	20.81
NAF-01_0126	19397.06	217 186.16	0.10	3.43	S. 19	4.0.0	40.4	29.62	1.1.	1.28	0.98	123.09	450.90	13.00
NAF-01_012/	22742.40	218404.44	0.43	12.0	50.007 8.44	52.	0.40	0.03	0.02	0.00	0.02	75 41	37.20	0.45
NAF 01 #20	11102 00	2150424.44	9.90	24.5	47 93	46.24	13.00	0.0	2.03	8. 5		240.60	100 67	19.23
NAF-01 tit3	14297 42	205014.58	79.20	361.62	307 49	72 97	226.23	5 7	88 17	5 66	6180	275.72	84 08	174.76
NAF-01 ##30	16206 93	216560.01	4 48	0.18	11.0	090	02.0	0.00	0.03	1.80	0.03	22.4.72	44 18	163
NAF-01 tit31	19702.76	207434.89	37.45	12.76	8.38	7.68	13.95	4.30	2.60	5.32	1.65	330.41	61.59	37.54
NAF-01_tit32	20246.60	217667.67	7.47	1.43	1.21	3.26	1.69	1.61	0.33	1.40	0.18	89.24	109.80	5.86
NAF-01_tit33	24274.38	220087.01	0.27	0.29	0.20	0.76	0.23	3.96	0.12	0.12	0.03	20.27	622.99	0.15
	*all elements are i	te are in	muu											
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Appendix C: Eastern Sunda arc titanite trace element chemistry (LA-ICP-MS)

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Analysis ID	Ι	Ca	S	Dy	Ēr	Eu	PS	Ť	유	La	Lu	Mn	ΝP	Nd
NAF-01_tit34	3980.86	213350.31	2832.44	550.12	318.26	128.67	525.83	4.62	107.31	583.24	39.24	520.22	113.43	2059.71
NAF-01_tit4	34035.09	221366.92	0.12	1.68	1.06	0.52	1.18	1.84	0.37	0.02	0.09	6.20	485.38	0.74
NAF-01_tit5	20064.94	215825.24	8.77	2.43	1.36	5.38	2.68	1.36	0.47	0.75	0:30	301.41	46.08	13.01
NAF-01_tit6	8160.66	209608.32	1961.93	162.41	86.66	58.12	204.51	1.49	30.43	608.97	10.98	1082.32	174.05	1067.32
NAF-01_tit7	24139.28	218873.38	2.19	1.53	0.95	0.84	1.69	3.12	0.22	0.41	0.15	74.63	204.84	2.52
NAF-01_tit8	14827.91	214348.36	4.03	4.38	2.76	1.74	4.10	3.26	0.91	0.63	0.35	76.66	138.71	7.23
NAF-01_tit9	4646.79	212215.02	410.57	89.78	60.38	24.99	81.44	32.30	18.73	195.99	11.16	731.57	12.45	229.38
SLG-02_tit1	12308.46	211898.63	54.67	21.55	13.65	3.97	29.11	5.17	4.30	6.22	1.70	150.21	170.71	81.14
SLG-02_tit10	15082.82	207613.83	29.43	1.14	0.83	2.09	2.37	2.97	0.27	8.13	0.21	235.34	339.83	13.08
SLG-02_tt11	11589.59	218187.71	30.57	1.86	1.26	0.98	3.11	2.32	0.49	13.38	0.21	143.41	96.76	17.27
SLG-02_tit12	17359.71	210671.45	15.49	5.76	4.95	3.08	6.45	7.65	1.41	1.94	1.47	141.86	173.96	23.80
SLG-02_tit13	15261.87	215797.55	13.94	5.68	4.06	3.19	6.28	8.53	1.14	2.16	0.37	225.31	177.42	17.56
SLG-02_tit14	7673.56	217511.79	0.93	3.28	3.51	1.33	2.72	2.77	0.91	0.18	0.49	126.98	13.98	1.70
SLG-02_tit15	11973.58	213290.67	1.76	1.78	0.97	1.30	2.60	0.74	0.35	0.15	0.21	57.79	117.07	3.48
SLG-02_tit16	11568.06	211556.27	8.40	42.53	29.51	66.9	27.14	13.44	9.62	1.25	3.79	217.51	164.71	16.80
SLG-02_tit17	11315.86	210816.43	1.19	3.07	2.70	0.80	2.23	4.59	0.78	0.22	0.72	202.13	48.22	3.38
SLG-02_tit18	14609.85	208722.92	129.29	452.31	298.89	29.64	305.32	4.96	99.78	16.86	28.26	622.75	191.48	272.81
SLG-02_tit2	25600.14	195375.24	24.96	16.73	8.67	3.31	19.57	2.84	3.44	2.85	0.92	169.58	71.18	51.11
SLG-02_tit3	12640.06	217548.09	86.62	48.55	26.74	5.76	77.27	4.52	9.71	6.93	3.17	263.09	255.88	189.67
SLG-02_tit4	11264.41	209708.12	54.70	29.26	16.47	5.25	40.59	7.14	5.56	4.68	2.14	165.66	94.32	109.74
SLG-02_tit5	10392.72	218281.95	218.83	54.59	30.04	25.52	86.68	7.00	10.91	24.92	4.28	203.54	82.78	320.87
SLG-02_tit6	11360.50	215210.52	4.59	12.55	8.79	3.19	9.45	3.57	2.75	09:0	1.46	278.50	145.33	10.37
SLG-02_tit7	9663.42	212296.33	337.27	141.19	76.99	38.07	174.89	12.13	26.41	39.35	10.05	282.65	1021.45	546.53
SLG-02_tit8	8673.87	217422.74	24.98	18.12	10.18	2.59	31.00	8.46	3.74	2.08	0.82	152.73	328.95	59.78
SLG-02_tit9	10943.00	213615.88	268.88	74.43	42.57	26.95	102.51	7.70	14.98	30.78	5.50	251.96	238.75	389.74
SEF-01_tit_1	15799.26	216311.21	60.21	28.37	19.58	7.32	30.93	6.36	5.70	7.98	5.44	220.62	168.09	89.00
SEF-01_tit_2	11444.94	214137.35	02.09	115.12	67.85	29.80	113.32	13.18	22.90	6.35	12.79	343.12	114.10	161.31
SEF-01_tit_3	16026.43	208405.86	12.11	3.57	2.50	3.13	3.48	5.14	0.77	1.81	0.38	401.03	106.35	12.38
SEF-01_tit_4	11630.00	207962.61	141.00	467.31	268.67	71.83	406.26	19.99	93.03	13.30	34.86	296.99	234.08	432.06
SEF-01_tit_5	13636.46	213869.35	25.87	11.73	5.86	4.19	14.08	5.80	2.18	3.22	1.00	1756.34	172.83	38.29
SEF-01_tit_6	7775.51	197274.98	1714.09	2451.95	1463.31	252.21	2001.27	5.11	486.13	236.31	150.20	600.30	878.52	3077.43
SEF-02_tit_1	16744.76	208946.09	7.53	0.91	0.66	1.13	1.32	1.60	0.19	0.99	0.20	120.75	41.70	00.9
SEF-02_tit_10	14271.08	209926.59	22.33	1.26	0.86	3.35	1.57	0.23	0.25	5.10	0.16	106.96	32.71	10.35
SEF-02_tit_11	12184.62	211840.05	6.10	3.75	2.23	3.62	3.83	8.93	0.79	0.91	0.47	87.12	105.77	8.59
SEF-02_tit_12	19069.07	202615.03	14.01	1.66	1.09	2.21	1.43	6.15	0.41	4.84	0.26	173.41	69.41	6.63
SEF-02_tit_13	13996.47	212963.60	187.23	82.27	54.46	41.96	94.89	1.96	16.66	26.90	12.28	377.18	103.37	260.37
SEF-02_tit_2	23129.13	214183.99	0.68	0.04	0.16	0.58	0.26	0.03	0.03	0.11	90.0	126.65	8.37	0.78
SEF-02_tit_3	37443.64	182323.71	12.36	0.94	0.47	2.07	0.92	0.13	0.17	2.67	0.22	166.16	34.36	6.59
SEF-02_tit_4	16011.43	211415.43	4.70	4.71	4.23	2.91	2.94	2.88	1.12	0.79	1.06	95.59	51.55	6.12
SEF-02_tit_5	11431.86	212250.51	4.29	0.79	0.49	2.10	1.54	2.95	0.15	0.57	0.00	54.28	73.48	5.45
SEF-02_tit_6	16177.72	210711.10	10.84	1.45	1.12	1.62	1.36	2.53	0.31	1.41	0.29	113.27	68.08	8.60
SEF-02_tit_7	12290.24	208022.73	146.52	24.17	17.43	18.86	34.68	5.21	5.21	20.36	4.03	136.69	84.40	151.99
SEF-02_tit_8	18167.97	213598.60	71.71	12.45	8.86	10.20	12.10	5.76	2.87	15.68	1.74	140.32	107.75	49.78
SEF-02_tit_9	11140.63	208004.34	320.05	158.19	95.19	64.16	194.54	0.28	31.28	39.84	14.78	192.82	20.01	515.06
SEF-04_tit_1	18952.57	211356.67	158.05	90.93	59.75	23.41	107.68	2.46	19.51	15.73	10.54	308.25	53.94	278.54
SEF-04_tit_2	9402.10	207392.99	114.82	66.02	39.14	25.97	75.63	7.61	13.85	11.79	5.08	145.12	161.05	205.92
SEF-04_tit_3	17279.52	214076.09	10.65	10.23	5.98	3.60	10.15	2.50	2.21	0.84	0.78	131.51	48.66	24.25
SEF-04_tit_4	19574.04	213036.43	6.43	0.75	0.25	0.34	1.14	0.13	0.19	2.45	0.05	131.45	62.38	3.94
SEF-04_tit_5	15987.30	211358.05	33.86	6.48	4.84	4.39	9.31	1.85	1.49	3.81	1.37	278.43	29.03	42.83
SEF-04_tit_6	19387.44	215319.34	0.42	0.39	0.29	0.15	<0.045	1.43	0.05	0.10	0.07	175.93	119.87	0.93
*all	*all elements are	ts are in	ppm.											

Appendix C: Eastern Sunda arc titanite trace element chemistry (LA-ICP-MS)

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Analysis ID	¥	Ça	కి	Dy	Er	Eu	PS	Ξ	우	La	Γū	Mn	N <sub>D</sub>	p
SEF-04_tit_7	19162.95	196583.51	337.04	65.29	37.92	30.41	86.23	9.49	12.89	50.07	6.12	595.21	114.46	389.01
SINA-01_tit_1	14555.26	210146.96	783.89	704.81	442.24	266.23	664.91	31.70	142.57	105.06	06.79	433.99	173.56	1296.25
SINA-01_tit_2	46835.60	144325.02	308.74	272.40	157.71	95.91	285.80	12.32	55.37	36.99	21.58	213.90	75.51	551.88
SING-01_tit_1	17720.60	208695.50	128.35	68.65	33.19	17.87	84.90	7.10	12.46	18.44	2.50	180.81	99.99	214.56
SING-01_tit_2	17287.97	213869.94	4.45	10.64	5.13	8.11	10.41	2.22	1.81	0.41	0.68	179.97	32.59	17.40
SING-01_tit_3	14418.53	194702.08	595.34	102.62	53.70	27.08	132.50	4.50	19.23	137.81	5.26	351.02	34.02	547.70
SING-01_tit_4	9358.72	213421.79	2.74	8.93	4.59	2.71	9.32	6.26	1.49	0.24	0.47	68.41	65.58	10.22
SING-02_tit_1	70797.38	219991.80	13.65	19.14	14.42	4.00	17.35	3.79	4.34	1.61	2.97	988.38	47.87	32.24
SING-02_tit_2	57129.98	202769.62	102.13	111.17	77.46	25.37	80.77	4.52	23.39	15.76	16.29	274.27	4.99	165.70
SING-02_tit_3	66611.20	214028.33	30.58	264.04	239.55	19.81	121.37	1.73	67.16	3.81	42.72	476.90	34.78	75.67
SING-02_tit_4	58724.61	213905.61	78.01	112.00	71.05	28.66	93.52	2.54	22.81	10.92	13.97	294.88	21.22	158.80
SING-02_tit_5	80031.47	203435.42	21.08	14.17	10.11	8.63	11.53	0.76	3.34	4.09	1.85	87.89	64.15	30.64
SING-02_tit_6	60051.48	190043.59	65.35	86.98	76.76	12.98	60.25	5.30	21.44	10.32	12.93	1108.56	109.26	79.59
SING-02_tit_7	66737.69	221203.16	59.49	50.20	41.10	12.23	35.43	2.45	12.05	9.38	8.21	687.05	43.21	63.62
SING-02_tit_8	64528.65	218638.77	117.58	47.39	37.07	14.36	37.96	3.40	11.07	22.13	7.33	636.16	62.87	116.75
SING-02_tit_9	61836.62	194299.27	63.77	113.06	92.36	22.95	77.15	7.35	25.72	8.85	20.36	266.84	3.95	120.27
SLG-03_tit_1	9562.47	211770.18	109.53	20.35	14.34	6.09	27.53	7.03	3.88	19.07	3.00	380.77	120.69	117.01
SLG-03_ttt_10	15554.47	183058.17	62.20	32.05	22.35	9.74	28.37	8.93	6.81	9.90	2.79	1357.74	85.33	74.79
SLG-03_tit_11	18912.11	201731.90	1.87	12.88	9.46	0.63	5.29	11.87	2.76	0.85	1.05	3636.16	97.46	2.24
SLG-03_tit_12	15212.40	197479.66	31.67	25.40	15.33	14.64	20.21	12.02	4.87	5.05	1.99	80.689	80.72	57.00
SLG-03_tt_2	13804.80	200307.67	4.40	47.56	41.78	2.54	16.88	8.73	12.20	0.74	5.38	1098.70	117.10	6.37
SLG-03_tt_3	9270.80	213369.71	89.48	13.86	10.29	6.42	18.10	15.47	3.06	16.64	2.38	368.05	134.61	84.21
SLG-03_tit_4	9760.86	210459.80	140.72	54.43	35.74	31.10	65.29	00.9	11.01	21.61	5.99	350.70	101.33	188.08
SLG-03_tit_5	9652.59	210133.89	214.09	638.68	329.72	84.64	616.89	19.26	117.65	27.18	34.05	414.89	1205.24	570.46
SLG-03_tt_6	18687.99	197938.16	1.05	9.34	10.06	08.0	2.62	20.82	2.73	0.31	2.27	1280.33	89.03	1.02
SLG-03_tt_7	11373.47	208373.50	4.61	35.47	16.19	3.72	26.19	4.98	6.68	1.49	1.10	241.85	84.24	8.93
SLG-03_tit_8	14422.58	205999.92	4.58	11.00	8.90	0.72	4.33	7.87	2.60	1.00	1.38	1366.05	77.04	4.44
SLG-03_tt_9	8934.44	203057.04	19.77	10.34	6.95	11.71	12.72	4.48	2.27	2.48	0.87	326.49	77.85	34.03
TR-02_tit_1	8793.39	147434.78	11.79	08.0	0.74	1.00	1.78	1.89	0.16	62.5	0.11	1102.90	144.01	4.34
TR-02_tit_2	7957.80	148011.43	19.08	3.44	2.17	5.39	3.85	2.26	0.75	11.21	0.29	1426.57	179.50	10.07
TR-02_tit_3	24098.53	150434.32	20.79	5.69	4.06	6.17	4.32	2.02	1.15	7.00	0.72	544.57	154.66	14.24
TR-02_tit_4	34315.62	203759.47	6.85	18.64	14.34	2.10	13.73	18.18	4.58	96.0	1.81	150.43	247.44	15.17
TR-02_tit_5	13306.02	144861.24	29.77	6.61	4.05	10.68	98.9	3.03	1.45	38.08	0.49	336.50	166.54	28.59
TR-02_tit_6	12539.56	124539.89	6.94	1.07	0.94	3.03	0.97	1.62	0.26	4.18	0.16	418.55	140.65	2.60
TR-04_tit_1	14896.56	212286.67	4.20	89.33	73.17	10.58	47.80	1.82	21.83	0.29	10.39	138.86	31.50	16.73
TR-04_tit_2	16213.97	212111.21	13.87	208.78	159.11	21.10	124.39	4.88	48.59	1.16	23.19	202.00	103.15	51.09
TR-04_tt_3	44340.62	206181.59	166.47	118.67	104.17	12.88	106.74	2.15	28.08	17.25	22.39	135.82	106.11	289.03
BHF-02_tt1	17433.72	207587.62	388.05	43.00	35.25	96.96	37.78	2.29	9.92	67.09	6.74	868.81	183.75	210.53
DITI-02_0010	10019.00	213990.70	12.0	0.7	3.92	2 2 2	3.02	00.00	60:	0.37	<u>+</u> +	50.00	00000	60.00
BHE-02_00111	13594.52	214958 44	43.00	08.90	6.73	5.38	0.21	2.32	1.44	8.73	9.1	363.23	67.98	3.42
BHF-02 tit13	24931.25	182920.98	160.59	22.05	17.79	14.77	18.78	3.78	5.17	34.81	4.23	2089.98	160.23	100.89
BHF-02_tit14	10642.15	209764.55	18.90	46.38	33.26	9.32	42.29	5.20	10.31	1.79	7.57	436.99	140.84	50.73
BHF-02_tit15	11586.04	207122.45	1.28	1.80	1.36	0.75	1.13	4.10	0.38	0.21	0.53	608.30	232.30	2.32
BHF-02_tit16	11602.19	213015.43	0.31	3.15	3.19	1.06	1.64	1.09	0.92	0.04	1.33	297.66	107.83	0.81
BHF-02_tit2	16931.87	205936.94	148.56	6.72	4.60	12.86	7.91	2.53	1.43	48.41	1.00	625.15	195.19	70.58
BHF-02_tit3	9911.92	213854.79	1.00	4.06	3.02	0.74	2.46	1.76	0.87	0.07	0.59	534.94	147.42	2.74
BHF-02_tit4	13667.16	212706.72	1.92	2.14	1.36	0.63	2.25	3.64	0.42	0.18	0.22	306.17	200.99	3.84
BHF-02_tit5	9367.82	207403.99	15.78	19.26	13.33	2.68	12.63	2.96	4.15	1.80	3.05	1381.11	247.11	26.75
BHF-02_tit6	17528.65	211817.09	3.56	0.54	0.41	0.76	0.45	0.58	0.17	1.39	0.13	313.79	106.45	2.67
*all	*all elements are	ts are in	ppm.											

Appendix C: Eastern Sunda arc titanite trace element chemistry (LA-ICP-MS)

Analysis ID	A	Ca	రి	Dy	Ę	Eu	PS	土	연	La	Lu	Mn	qN	PN	
BHF-02_tit7	9431.50	210597.29	1.59	1.32	1.00	0.28	1.08	3.94	0.33	0.23	0.39	1048.42	254.26		1.66
BHF-02_tit8	17234.63	208957.43	39.45	20.38	15.07	6.15	15.10	1.80	4.21	8.31	3.31	89.809	273.94	4	43.57
BHF-02_tit9	107777.76	211769.63	9.37	0.64	0.55	6.98	1.21	7.63	0.10	3.15	0.20	326.67	369.80		6.02
JER-01_tit1	23260.93	171863.65	19.31	439.94	307.93	8.99	145.49	13.03	96.75	5.57	33.40	194.19	98.82	4	4.97
JER-01_tit10	22779.31	202494.24	30.61	10.65	8.66	2.12	7.62	12.33	2.59	12.30	1.16	228.17	117.10	2	21.11
JER-01_tit11	34297.13	197689.50	4.33	9.78	5.53	6.11	10.28	7.68	28.1	0.39	0.73	292.23	47.19	_	13.25
JER-01_tit12	19127.56	210846.22	7.71	11.62	8.15	5.34	9.19	13.38	2.58	1.17	1.07	140.17	92.48	_	15.89
JER-01_tit13	20331.02	213064.01	8.40	11.43	7.59	8.05	9.89	11.22	2.42	1.11	1.04	292.08	53.57	+	4.38
JER-01_tit14	20473.25	220682.81	19.74	15.57	10.69	6.46	12.57	11.16	3.48	5.86	1.38	192.37	57.18	2	2.35
JER-01_tit15	22235.61	209993.10	11.70	13.05	90.6	3.23	9.74	11.74	2.84	2.84	1.00	173.89	126.20	_	16.38
JER-01_tit16	25123.07	183217.66	7.58	17.88	14.60	3.84	12.89	9.81	4.09	1.90	2.53	302.14	96.96	_	3.68
JER-01_tit17	24838.11	204383.99	12.06	47.97	54.48	3.00	14.45	11.02	14.74	3.02	60.9	139.53	79.27	-	16.36
JER-01_tit18	20721.65	182145.07	13.62	9.58	7.19	2.00	8.42	8.88	2.10	4.21	0.93	154.54	94.41	_	13.75
JER-01_tit2	19942.08	210722.65	5.09	14.91	9.56	7.30	12.65	13.56	3.12	0.47	1.45	139.79	67.78	_	13.24
JER-01_tit3	18756.16	209657.10	7.25	12.78	8.59	5.81	11.28	9.81	2.58	0.56	1.32	128.23	67.78	_	7.49
JER-01_tit4	21997.01	192370.99	22.36	36.15	30.23	5.58	30.57	8.88	9.40	5.97	5.24	114.53	87.65	8	7.54
JER-01_tit5	24074.40	191287.45	43.44	15.05	10.74	2.86	10.21	13.99	3.42	16.66	1.30	201.31	140.06	2	26.84
JER-01_tit6	21451.21	217827.32	9.79	11.50	7.40	4.56	11.36	13.62	2.36	1.98	1.03	185.78	69.38	-	8.89
JER-01_tit7	22056.76	213018.60	4.75	7.52	5.49	5.06	5.48	5.30	1.58	0.41	0.68	121.06	48.64		9.01
JER-01_tit8	23678.20	217256.98	5.12	9.91	8.82	3.33	4.58	9.76	2.42	0.77	1.27	160.93	82.50		8.18
JER-01_tit9	19353.53	215163.43	4.73	14.77	10.25	5.17	11.27	10.87	3.40	0.47	1.99	132.94	98.89	+	14.15
LB018_tit1	38916.08	210316.66	27.66	111.67	72.20	13.15	74.97	10.66	23.53	9.85	8.61	356.77	146.76	13	5.16
LB018_tit2	32312.93	215166.57	3.35	14.22	8.59	4.34	10.89	2.49	3.07	0.33	1.25	345.13	82.84	-	12.76
LB018_tit3	52047.62	154989.28	7.64	13.77	09.6	11.01	7.44	6.41	3.22	2.44	1.20	1601.71	92.50	_	1.25
LB018_tit4	45604.94	218804.84	159.90	513.47	304.65	27.94	315.25	10.10	108.19	18.26	31.18	411.34	109.56	35	6.32
LB018_tit5	24676.56	160136.86	31.83	33.48	25.14	4.71	24.53	9.89	7.11	10.84	3.54	15668.48	191.69	8	9.62
LB022_tit1	13849.56	217974.11	1471.04	143.51	80.20	58.30	133.63	85.29	29.41	257.40	6.62	23.00	1103.55	9/	6.18
LB022_tft2	167023.73	1767.65	2.11	0.36	0.25	0.20	0.43	0.32	0.10	0.88	0.08	8025.97	90.0		1.27
LB029_tft1	15865.59	211356.99	222.21	19.02	11.64	15.37	19.73	7.65	3.65	145.81	2.54	443.00	211.11	80	09.6
LB029_tft2	15313.82	213986.78	629.20	410.31	252.76	24.55	329.97	6.45	82.82	145.04	40.69	224.86	250.57	70	702.80
LB036_titfl	5524.77	205858.00	1464.72	219.41	119.88	71.51	225.46	62.45	43.35	522.55	14.41	1038.47	189.60	88	886.70
LB036_tit2	3265.37	203954.37	2155.06	608.50	342.98	126.16	577.90	54.92	120.70	553.79	36.45	1313.66	472.73	186	865.41
*all	l elements are in	s are in	ppm.												

Appendix C: Eastern Sunda arc titanite trace element chemistry (LA-ICP-MS)

Analysis ID	Pb	P	ī	Sm	Ta	Tb	Į.	Ē	D	>	Q,	Zr	Fe	į=
LB014_322_tit1	0.39	246.99	135405.22	251.30	18.79	35.72	83.06	18.45	21.52		116.61	2005.39	10583.06	233041.09
LB014_322_tit10	0.24	395.39	135376.72	412.07	9.56	58.92	119.03	28.06	17.99		177.59	1227.45	10322.31	231367.92
LB014_322_tit11	0.21	984.36	135348.73	1028.43	23.16	135.75	223.58	82.09	46.28		381.89	513.48	11286.06	226873.10
LB014_322_tit12	0.56	438.81	134795.18	478.05	38.95	68.04	228.15	32.42	37.19		195.58	1382.61	11352.56	229460.03
LB014_322_tit13	0.44	335.05	136806.32	325.94	36.50	48.77	157.56	26.32	28.35			1602.47	9200.83	232509.15
LB014_322_tit14	2.84	718.28	135999.77	714.65	76.75	91.68	277.38	37.22	51.57		. •	1394.50	12511.41	226500.46
LB014_322_tit15	0.22	484.38	137362.00	384.25	20.77	46.23	132.60	22.79	45.71	÷	148.40	706.24	8205.95	231350.65
LB014_322_tit16	330.00	16.51	135580 01	939.61	16.46	87.1 82.96	28.21	0.78	2.74	1280.05	130.30	29.45	10378.69	232150 39
1 0014 333 41119	. c	223.42	134632 66	258.01	0.43	30.29	10.20	19:72	10.40		167.07	861 30	11164 40	220006 62
1 0014 222 1110	0.22	321.36	12676002	0000	9. 0.	10.00	97.97	23.03	<u> </u>		10.101	021.30	11906.40	230393.33
LB014_322_tft2	7.16	/31.2/	135/60.93	654.93	12.98	85.75	130.96	39.14	39.92		251.21	979.96	11896.18	223725.04
LB014_322_tft20	0.27	236.10	132882.28	263.03	1.22	37.90	58.54	17.85	11.73			656.73	116/2.01	233678.78
LB014_322_tit21	0.79	1042.19	132089.55	929.36	129.58	124.75	398.76	97.49	47.54	4	4	5136.97	15138.50	221324.62
LB014_322_tit22	0.58	27.90	134425.56	25.22	6.36	4.15	15.17	4.28	10.71			3219.44	10927.18	232680.73
LB014_322_tit23	0.26	553.86	133482.27	548.42	25.37	73.18	113.34	31.15	33.72			1834.40	11513.29	230548.47
LB014_322_tit3	0.19	245.35	135840.56	226.15	11.41	31.30	83.03	16.27	24.70	70 1093.10	105.29	1483.15	10694.62	231930.43
LB014_322_tit4	0.16	28.21	135658.12	24.87	0.72	3.42	5.78	2.23	1.76	76 136.53	14.11	426.49	11084.04	235223.99
LB014_322_tit5	0.21	386.79	136421.95	358.82	6.46	47.83	09.66	22.61	38.92	1581.47	143.87	1229.77	9651.66	231054.92
LB014_322_tit6	0.20	136.39	134845.06	141.46	3.79	21.74	58.64	12.39	20.31	31 803.64	86.23	1478.91	8929.19	234837.12
LB014_322_tit7	0.62	375.46	134691.53	341.20	26.82	48.60	178.95	24.24	43.92	1649.05	153.42	2397.15	11720.54	230819.38
LB014_322_tit8	2.60	2.13	137145.65	0.74	2.44	0.07	0.68	90.0	0.45	5.33	0.57	15.80	20586.80	210890.39
LB014_322_tit9	107.82	58.46	136039.46	25.98	3.23	3.05	1.25	2.14	18.49	193.74	18.15	36.94	17032.99	220259.46
LB025 323 tit1	21.97	10.70	154140.68	18.34	3.40	3.70	4.30	2.50	2.54			387.44	12931.52	144284.17
LB025_323_tit10	23.85	11.97	150687.85	24.57	5.41	4.66	2.77	1.92	2.42			455.94	11342.04	144077.12
LB025_323_tit11	27.63	10.14	153147.27	16.77	9.91	2.47	8.66	1.19	96.9	96 95.81	8.74	115.36	12545.12	146946.28
LB025_323_tit12	7.48	5.71	117074.86	13.12	4.89	2.31	2.49	1.10	3.23	23 86.57	8.30	393.95	142585.59	166507.67
LB025_323_tit2	21.54	6.87	151575.32	17.72	5.63	4.25	4.04	2.91	2.76	76 149.62	21.12	213.25	12742.92	147709.53
LB025_323_tit3	17.77	1.69	165107.58	8.13	6.79	3.48	5.90	2.89	0.95	35 143.37		127.00	49923.48	113761.13
LB025_323_tit4	35.46	13.70	147375.31	19.53	13.72	4.00	14.31	3.95	9.13	154.12		103.43	9995.27	151960.22
LB025_323_tit5	43.66	9.77	151153.88	17.91	9:00	3.65	10.06	1.71	5.11	123.81	11.82	156.22	8815.48	154294.79
LB025_323_tit6	21.65	2.33	154817.58	2.65	3.99	0.85	0.20	0.22	0.88	38 22.84	1.02	155.50	40265.18	107144.93
LB025_323_tit7	7.25	4.18	127443.43	14.73	5.03	4.04	0.07	1.02	0.61			398.38	17619.63	242975.59
LB025_323_tit8	23.94	6.51	147903.66	20.09	6:29	4.85	10.34	3.68	2.05	167.68	31.92	84.98	10153.24	150661.38
LB025_323_tit9	8.56	17.95	143166.62	30.29	5.80	5.41	2.67	2.86	7.22	22 196.09	19.78	91.96	16510.93	184200.25
LB037_329_tit1	0.41	38.45	136560.75	22.51	7.66	3.26	99.9	2.10	48.94			482.91	16837.74	227122.96
LB037_329_tit10	0.26	230.12	135202.30	384.37	36.70	78.73	235.58	37.68	28.63			1057.71	9030.79	233340.79
LB037_329_tit11	1.14	134.57	135980.51	155.27	15.89	25.75	98.46	13.73	15.90		89.63	919.24	11986.93	230552.77
LB037_329_tit12	0.07	44.51	135183.39	37.69	1.82	5.75	20.75	2.86	15.99			250.26	6344.41	235595.28
LB037_329_tit13	0.34	533.94	134968.10	762.99	32.26	135.07	437.67	69.25	52.52		•	1372.58	10792.60	230055.79
LB037_329_tit14	0.45	148.69	133539.97	231.25	8.23	45.98	100.04	23.56	35.21		_	889.57	8745.50	236875.09
LB037_329_tit15	0.18	96.03	137588.71	58.64	6.13	8.81	11.04	4.80	50.18			722.39	13911.34	226874.84
LB037_329_tit16	0.23	148.89	134520.00	234.02	8.40	44.36	39.58	21.32	7.35			1308.86	10694.77	233349.69
LB037_329_tit17	0.22	36.73	134789.94	43.65	4.98	8.82	17.20	7.13	12.02		50.75	1947.49	9861.24	233889.34
LB037_329_tit18	0.24	111.12	135345.65	124.77	5.22	20.14	36.83	9.88	16.36		62.34	1165.79	9240.19	235443.08
LB037_329_tit19	0.15	191.48	135164.38	220.30	1.60	38.83	92.09	19.88	19.54		127.16	1936.61	9883.21	232763.81
LB037_329_tit2	0.18	180.14	135878.07	165.98	2.27	26.33	49.98	14.20	41.24		100.94	1401.83	8802.96	234134.03
LB037_329_tit20	0.62	294.14	132501.96	459.42	6.03	84.44	98.70	33.37	20.75		192.92	1539.80	10097.42	233560.18
LB037_329_tit21	0.26	55.64	135501.00	83.60	12.22	16.92	48.39	9.73	6.27		64.08	4406.47	13570.31	228639.59
LB037_329_tit22	0.21	68.21	135599.93	48.15	11.19	6.14	9.88	2.98	21.84			538.00	11158.52	232959.85
LB037_329_tit23	0.22	168.46	134763.56	258.17	13.77	53.46	90.25	29.99	15.17	1913.16	188.98	1408.34	13008.42	230404.69
*all e	*all elements are in ppm	are in pp	m.											
		4												

Appendix C: Eastern Sunda arc titanite trace element chemistry (LA-ICP-MS)

Analysis ID	8	ď	ī	. WS	Ta	Tb	£	ΔL	П	<b>&gt;</b>	χp	Zr	L	i
a codinar									•					
LB037_329_tit24	0.44	130.67	135490.26	178.02	10.24	34.60	33.89	17.89	7.75	1201.40	113.93	1197.71	10318.94	233613.19
LB037_329_tit25	0.36	97.74	136407.30	135.14	3.29	25.64	42.07	12.31	7.80	920.14	79.77	886.80	8567.69	235851.60
LB037_329_tit26	0:30	298.35	133954.60	290.35	9.74	45.67	225.80	25.05	70.09	1674.08	167.49	1790.93	11863.69	232174.15
LB037_329_tit27	0.03	39.36	135768.13	67.07	0.09	15.22	8.53	9.56	2.00	606.25	66.84	124.35	9497.79	233609.52
LB037_329_tit28	0.10	20.68	136216.30	69.26	0.86	13.84	14.90	8.88	17.23	508.02	62.47	894.18	10211.06	231293.56
LB037_329_tit29	0.29	505.61	132235.50	779.20	31.30	140.60	155.35	62.75	27.82	4411.60	361.68	1242.06	10493.53	231102.99
LB037_329_tit3	0.26	148.66	135813.00	186.01	7.62	34.90	68.28	20.33	30.99	1279.96	137.83	1070.80	10617.95	231124.89
LB037_329_tit30	0.19	32.96	135547.47	35.25	5.83	5.70	7.85	2.79	4.91	214.85	17.96	478.48	11707.94	231717.23
LB037_329_tit31	09:0	110.88	136357.47	62.08	0.51	8.54	20.86	4.95	27.36	302.58	38.42	384.92	7745.15	235391.01
LB037_329_tit32	0.50	46.37	134261.96	33.42	5.37	3.74	6.62	1.19	5.44	128.95	7.28	590.56	15926.16	232975.43
LB037_329_tit33	0.81	195.31	135435.61	292.91	4.33	56.71	89.19	28.32	21.21	1980.79	173.43	1657.72	12819.62	228589.51
LB037_329_tit34	0:30	235.82	135701.43	293.82	5.98	52.23	100.77	23.41	32.07	1853.08	140.20	1679.83	11612.27	231197.32
LB037_329_tit35	0:30	210.39	134758.16	323.24	26.25	62.96	206.30	32.83	22.47	2352.47	204.70	1363.52	10408.41	232155.94
LB037_329_tit36	0.22	256.41	134432.84	361.87	12.94	67.81	155.03	35.11	21.68	2323.60	217.14	1455.62	11488.95	231468.07
LB037_329_tit37	0.58	29.74	137061.87	35.98	0.85	6.71	20.16	4.76	5.96	277.17	33.44	2468.78	13232.98	227620.04
LB037_329_tit38	0.12	138.66	133636.70	108.78	0.80	15.29	31.60	7.33	85.13	512.26	48.37	695.32	9148.70	235696.98
LB037_329_tit39	0.61	94.63	135670.75	144.54	13.91	30.32	54.08	20.96	12.17	1157.15	149.00	5492.93	11020.42	229075.78
LB037_329_tit4	0.11	124.56	135580.71	154.61	1.04	34.10	66.50	21.17	13.44	1319.14	145.29	265.01	10247.49	231242.26
LB037_329_tit40	0.25	174.21	134769.48	160.96	7.37	26.25	97.78	16.29	115.48	958.93	110.36	2387.05	12874.63	230996.09
LB037_329_tit41	0.21	206.51	133474.60	296.90	9.74	60.84	95.12	34.19	26.21	2231.80	208.58	1336.55	11098.93	233725.17
LB037_329_tit5	0.18	22.69	137850.55	80.12	3.00	18.37	34.09	9.40	13.17	678.43	59.76	98.33	8966.33	224887.48
LB037_329_tit6	0.10	42.10	133415.10	63.92	8.23	14.91	30.72	10.85	17.96	577.22	82.71	490.50	6039.48	240523.38
LB037_329_tit7	0.11	8.50	138373.62	14.99	0.01	3.26	1.1	2.06	0.20	122.24	16.51	454.77	12808.74	228857.55
LB037_329_tit8	0.29	168.73	135632.17	251.32	10.16	48.43	119.56	23.27	12.77	1638.17	138.51	421.09	9016.34	234332.70
LB037_329_tit9	6.35	1.09	141452.38	1.03	1.89	0.20	0.68	0.18	1.30	10.16	1.51	11.34	11780.62	194846.06
LB042_331_tit1	13.04	27.66	145972.16	34.64	5.79	5.34	7.10	3.36	4.16	206.50	23.97	308.87	11227.33	201523.26
LB042_331_tit2	2.67	43.92	136210.88	56.52	2.26	9.75	17.58	5.99	12.29	355.82	42.59	69:299	9057.71	226881.36
ELF-03_333_tit1	17.32	4.09	144802.00	2.94	4.82	69.0	0.32	0.43	96.0	29.12	2.79	22.72	6325.62	189266.65
ELF-03_333_tit2	0.16	0.01	139044.47	0.01	0.83	0.00	0.04	0.02	0.08	0.32	0.04	4.84	7745.69	214027.04
ELF-03_333_tit3	108.80	9.03	140644.99	11.43	4.64	1.41	8.47	0.72	3.35	87.20	5.09	18.10	3010.92	192002.65
ELF-03_333_tit4	29.91	0.59	139694.39	1.63	1.26	0.48	0.28	0.34	0.39	25.71	3.22	20.71	15121.24	206468.42
ELF-03_333_tit5	365.48	8.99	132109.80	14.02	5.37	5.62	7.87	6.25	13.91	301.56	51.04	13.66	5913.33	208190.44
ELF-03_333_tit6	5.38	4.78	135109.06	11.85	4.96	5.60	7.09	5.22	4.20	282.52	38.78	21.06	23669.88	209289.94
ELF-03_333_tit7	99.9	2.75	141389.84	1.95	4.18	0.40	0.58	0.46	0.40	27.57	3.41	13.99	6186.31	181432.86
ELF-03_333_tit8	13.17	14.44	142774.36	11.93	4.30	2.67	5.96	4.79	3.66	173.90	39.71	8.95	5894.26	172333.63
SPF-05_336_tit1	4.42	229.75	138471.57	336.26	3.67	71.37	40.09	44.93	6.89	3149.33	301.02	8.70	6365.12	213321.76
SPF-05_336_tit10	3.57	66.57	143060.72	94.44	2.84	23.46	39.96	15.49	73.49	903.22	114.63	155.93	6651.57	202645.63
SPF-05_336_tit2	0.89	31.32	134857.87	48.88	2.15	9.40	0.09	4.77	0.15	354.21	30.56	105.39	6664.86	225973.09
SPF-05_336_tit3	0.84	113.82	138795.71	153.06	4.51	18.87	8.85	9.44	3.65	666.94	68.89	8.17	4853.21	214989.58
SPF-05_336_tit4	1.60	203.47	133786.03	498.60	2.96	143.36	64.60	102.63	8.93	6526.73	713.94	15.56	5359.55	218182.06
SPF-05_336_tit5	24.83	272.69	140939.84	266.61	6.01	36.96	43.54	24.87	43.16	1646.96	185.56	53.35	9380.78	213898.01
SPF-05_336_tit6	0.73	226.96	137589.65	848.51	2.35	238.91	15.42	133.99	1.17	11060.31	816.29	3.34	5905.48	212638.64
SPF-05_336_tit7	19.02	4.00	89915.00	4.73	8.40	1.61	2.08	1.1	6.23	88.09	8.16	3.53	12205.87	351662.94
SPF-05_336_tit8	3.41	109.61	142501.03	189.92	5.06	70.59	60.6	58.40	20.14	4155.35	423.34	15.85	9957.86	212439.74
SPF-05_336_tit9	3.62	9.57	171507.56	27.47	0.99	7.14	10.30	3.41	40.71	280.03	14.82	52.51	8113.03	181863.62
NEF-02_337_tit1	127.82	121.73	148207.10	204.21	11.36	24.86	9.32	7.74	1.52	1245.70	51.87	4.94	3890.27	188257.52
NEF-02_337_tit2	100.17	40.71	146453.60	71.34	7.09	15.46	4.14	90.6	1.56	619.18	62.75	341.77	7247.74	192934.40
NEF-02_337_tit3	33.19	79.15	156327.82	161.03	1.76	35.73	2.47	22.83	5.51	1414.42	157.94	259.53	3994.13	188746.19
NEF-02_337_tit4	10.21	71.43	147675.44	106.99	3.62	25.45	8.95	14.23	3.32	1229.40	88.94	6.37	10389.54	177016.35
NEF-02_337_tit5	35.73	31.15	150374.94	68.94	6.44	16.95	4.17	15.54	14.18	622.47	127.44	691.72	4426.31	194600.28
*all e	*all elements are in ppm	are in pp	E.											
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Appendix C: Eastern Sunda arc titanite trace element chemistry (LA-ICP-MS)

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Analysis ID	Pb Pr		Si	Sm Ta	a Tb		Th	Tm	n	Y YE	Zr	F	Fe Ti	
ELF-01_tit1	1.59	10.23	143477.75	9.22	99'9	2.36	16.45	2.32	16.13	136.28	20.10	30.85	3713.57	199164.63
ELF-01_tit10	10.76	3.46	148998.58	4.02	8.75	0.82	4.06	0.94	8.30	54.07	5.94	35.35	11100.26	166474.18
ELF-01_tit11	1.69	3.74	142704.54	4.26	7.72	0.64	4.86	0.53	6.97	37.91	5.81	20.20	3747.99	199824.28
ELF-01_tit12	2.34	6.49	139717.33	17.10	5.75	4.16	2.62	3.61	12.40	211.33	25.64	7.68	4018.74	203748.60
ELF-01_tit13	6.21	6.57	142991.21	20.26	3.30	8.35	6.31	8.37	11.85	430.16	62.15	12.88	7722.40	198526.50
ELF-01_tit14	4.04	10.32	130212.21	12.82	9.75	4.22	1.1	4.18	3.87	273.29	33.34	70.40	5738.02	214094.58
ELF-01_tit15	2.65	70.08	147282.45	69.05	1.30	11.95	0.87	6.71	7.11	572.20	50.31	21.16	37025.83	174811.74
ELF-01_tit16	2:44	25.82	109984.27	29.24	9.02	9.48 ro	37.15	9.35	22.55	/16.4/	78.46	19.48	12040.51	298/47.01
ELF-01_UIZ	0.77	3.38	1408 16.50	7.80	90	C. 92	2 84	0.39	7.17	941.68	4.22	0 3 2	4533.31	2005015.88
ELF-01 tit4	3.01	8.29	130868.26	96.63	3.51	78.62	24.90	86.38	16.33	4823.63	689.26	38.47	5772.23	213283.17
ELF-01 tit5	5.26	3.23	145502.07	11.03	2.58	5.05	4.13	5.16	8.20	293.34	39.76	10.17	6229.61	196595.65
ELF-01_tit6	0.17	5.41	137017.51	8.85	2.58	4.03	4.09	3.51	7.83	245.19	29.57	11.57	3933.87	202426.90
ELF-01_tit7	4.38	14.40	144379.37	25.02	1.99	8.86	4.16	7.92	7.70	478.91	59.22	12.80	6649.62	188672.23
ELF-01_tit8	9.57	182.33	142609.73	499.55	4.32	144.41	10.51	91.06	9.77	6463.24	636.55	32.38	5712.53	192184.25
ELF-01_tit9	6.02	1.82	145862.52	2.14	8.36	0.63	3.58	0.50	4.58	37.60	4.74	41.60	6435.88	186535.58
LB026_tit1	4.41	8.79	143748.26	10.25	2.73	2.37	3.65	1.72	4.64	132.89	12.77	22.56	7459.98	203329.75
LB026_tit2	1.40	7.76	143456.54	5.68	5.51	1.00	99:0	0.85	1.35	70.25	6.63	27.33	9278.49	200012.90
LB026_tit3	0.27	82.98	137781.89	84.70	5.58	15.96	86.54	12.06	59.19	726.21	86.41	1828.18	12918.55	225923.73
LB026_tit4	1.51	26.36	103768.38	33.18	6.82	5.27	11.61	1.96	17.25	161.23	12.19	45.00	10532.89	321039.35
LB026_tit5	0.07	35.21	135457.03	17.11	12.83	<b>1</b> .84	17.82	1.27	20.03	64.00	7.92	3421.96	15372.36	224928.86
LB026_tif6	08.9	21.23	92733.43	51.71	10.52	9.49	9.83	4.16	5.18	360.44	29.20	90.31	5819.76	335088.56
LB026_tit7	4.59	34.83	105522.86	51.63	13.51	9.47	25.73	5.99	17.80	364.69	36.73	82.38	7374.29	314452.60
NAF-01_tit1	0.21	14.54	138730.37	15.05	3.62	2.77	11.76	1.54	5.74	99.45	10.73	189.27	5723.48	228947.69
NAF-01_tit10	1.51	0.14	136798.65	1.26	32.97	0.34	0.25	0.17	1.95	13.91	1.39	134.22	7511.79	207050.58
NAF-01_tit11	8.19	3.88	137928.09	5.52	22.37	0.91	0.17	0.45	0.68	33.11	3.15	7.75	5119.27	215494.11
NAF-01_tit12	2.47	0.84	143130.76	2.41	23.00	0.28	0.21	0.18	2.10	11.18	1.22	17.87	8319.24	198577.40
NAF-01_tit13	4.23	7.86	140657.15	57.48	12.03	46.12	13.03	64.05	53.21	3192.56	491.91	170.77	8838.75	211050.05
NAF-01_tit14	0.04	155.09	139461.49	331.44	0.67	57.34	47.27	36.46	50.31	2324.05	254.11	33.41	10532.58	217517.29
NAF-01_tit15	5.40	5.69	139881.90	14.33	17.88	3.61	2.09	3.61	11.77	192.18	28.09	23.32	8576.99	209387.46
NAF-01_tit16	2.74	3.92	141845.99	13.59	10.59	2.56	2.71	2.24	33.09	119.84	17.87	7.56	7008.19	209481.52
NAF-01_tit17	0.34	0.01	142582.29	0.01	27.38	0.01	0.00	0.01	0.03	0.35	0.03	15.97	7696.61	187523.47
NAF-01_tit18	1.62	0.51	140246.01	1.97	11.31	0.43	0.21	0.21	0.07	17.44	1.42	29.27	9206.80	207769.95
NAF-01_tit19	0.70	0.37	140682.02	2.11	8.31	0.55	0.09	0.32	0.01	22.31	1.73	10.30	8956.75	206294.43
NAF-01_tit2	25.29	6.52	141461.68	13.40	36.31	2:44	1.18	1.62	14.91	101.50	12.11	31.99	7763.34	204956.31
NAF-01_tit20	8.81	33.29	136390.08	61.92	2.76	10.67	29.47	7.44	55.39	466.75	51.65	88.20	8556.89	223229.56
NAF-01_tt21	0.15	0.05	139769.73	0.23	21.11	0.09	0.07	40:00	0.25	3.47	0.40	30.04	7232.51	201929.17
NAF-01_0022	17.33	40.1.04	135700 43	2.72	25.34	0.58	1.29	924 00	3.11	26.09	3.22	7.54 520 54	10951.30	74666 10
10-10-10-10-10-10-10-10-10-10-10-10-10-1	0.00	10.07	144440.06	300.73	5. 0	200.	2.03	324.90	50.12	10:4047	‡ 000.0	920.04	40660 46	204504.40
NAF-01 #125	0.33	1.02	144110.20	1.55	0.32	0.13	 	0.00	7.04 1.85	21.92	0.09	30.30	10330.16	213027.20
NAF-01 tit26	5.39	2.32	139609.66	4.42	31.47	0.65	4.27	0.55	21.09	31.13	5.87	322.64	9240.82	208245.48
NAF-01 tit27	0.75	0.10	142703.49	0.75	9.51	0.07	0.49	0.02	24.79	1.45	0.14	2.32	10366.43	208491.80
NAF-01_tit28	6.88	2.47	142782.86	8.74	24.21	1.99	2.66	0.89	2.02	77.97	6.33	84.84	8882.22	199952.80
NAF-01_tit29	1.79	11.55	136930.01	51.37	8.01	12.60	15.61	6.24	39.79	509.73	43.74	86.25	5528.20	224647.14
NAF-01_tit3	1.69	22.84	146423.11	107.53	5.70	44.12	9.84	47.52	399.39	2629.99	369.78	195.90	7996.76	213250.44
NAF-01_tit30	10.50	0.46	137535.64	0.24	3.33	0.05	0.53	0.02	1.48	1.45	0.14	1.68	11724.54	213755.43
NAF-01_tit31	10.45	7.32	145110.94	11.64	4.44	1.93	6.67	1.20	9.18	81.96	9.50	49.53	11048.77	207943.67
NAF-01_tit32	1.80	1.17	138317.22	1.15	14.53	0.20	1.54	0.12	0.67	9.11	1.22	35.44	6887.15	210984.86
NAF-01_tit33	1.77	0.08	137153.54	0.11	56.73	0.04	90:00	0.04	1.56	2.16	0.21	58.87	14554.14	199531.31
*all e	*all elements are in ppm	re in ppn	1.											

Appendix C: Eastern Sunda arc titanite trace element chemistry (LA-ICP-MS)

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Analysis ID	Pb	Pr	Si	Sm	Ta	Tb	Th	Tm	U	۲ ۲	Yb Zr	Fe	Т	
NAF-01_tit34	0.38	439.32	132045.17	554.73	6.19	87.08	131.71	44.03	44.35	2879.97	311.03	97.95	5163.50	233745.76
NAF-01_tit4	0.40	90.0	141412.53	0.37	32.99	0.22	0.05	0.15	90.0	9.30	0.73	30.75	5917.32	188795.95
NAF-01_tit5	20.34	2.45	144163.13	2.37	2.48	0.40	3.55	0.16	1.42	15.36	1.58	29.20	6514.17	205391.71
NAF-01_tit6	5.17	257.87	134925.38	219.88	15.89	26.67	40.94	11.51	62.19	903.45	78.03	39.18	11530.28	227290.41
NAF-01_tit7	2.76	0.48	139235.91	1.13	21.48	0.21	0.56	0.14	2.54	8.14	0.86	82.29	11113.19	201023.14
NAF-01_tit8	0.08	1.10	140544.98	2.90	7.87	99.0	0.28	0.35	0.03	27.87	2.85	89.32	7553.88	216463.44
NAF-01_tit9	0.13	50.59	132683.40	67.94	0.75	13.37	126.35	9.12	73.69	543.05	71.70	450.58	6968.65	238171.29
SLG-02_tt1	2.85	13.41	139178.85	25.30	7.51	3.67	13.18	1.65	4.86	134.65	11.77	186.10	9764.98	220991.38
SLG-02_tt10	9.55	3.51	141368.28	2.16	24.53	0.25	96.98	0.16	1.63	8.64	1.01	86.05	12211.45	216846.64
SLG-02_tt11	5.32	4.01	137030.68	3.40	10.92	0.32	2.60	0.14	1.17	13.23	1.09	88.91	13621.72	216692.71
SLG-02_tt12	1.16	4.00	143109.56	6.01	9.01	0.84	17.01	0.71	3.57	47.73	6.94	180.01	8151.68	212708.26
SLG-02_tit13	10.42	2.87	141437.31	5.99	17.31	0.70	19.86	0.67	99.9	38.10	3.42	219.85	11896.68	209937.39
SLG-02_tt114	0.49	0.28	136785.25	1.16	0.47	0.42	0.07	0.46	0.03	27.58	3.69	130.34	9242.54	225480.55
SLG-02_tt115	0.07	0.43	140579.34	1.92	7.77	0.28	0.38	0.16	0.04	10.83	1.00	11.98	8610.22	219846.94
SLG-02_tit16	0.82	2.50	138907.40	13.81	11.69	5.75	5.62	4.61	10.04	296.05	29.51	379.40	8686.74	223015.25
SLG-02_tt17	0.84	0.38	142103.06	1.55	1.95	0.41	1.61	0.50	0.23	24.09	4.18	148.19	8034.58	220979.51
SLG-02_tt18	3.30	36.22	143105.56	169.83	11.76	61.87	37.86	39.63	69.72	2825.69	240.19	149.54	13282.77	209517.75
SLG-02_tt2	0.39	2.06	156938.12	21.54	7.29	2.62	11.03	1.15	1.59	95.22	7.69	85.81	9272.54	197664.92
SLG-02_tt3	0.81	26.78	138383.31	66.37	13.03	8.87	34.96	3.07	4.57	299.80	19.78	155.79	11031.57	215430.87
SLG-02_tit4	0.13	16.14	141976.03	36.23	7.52	4.84	15.69	2.07	3.77	173.31	15.42	272.68	9090.38	220849.99
SLG-02_tt5	0.13	55.74	135968.33	93.68	5.69	10.35	62.89	4.31	22.48	335.57	29.62	185.48	7364.71	223125.30
SLG-02_tt6	0.59	1.45	135315.42	5.34	7.14	1.66	10.65	1.14	3.01	85.26	11.66	120.88	9838.24	224342.30
SLG-02_tt7	0.11	86.59	141015.40	170.41	40.32	23.57	158.94	10.59	22.50	845.37	71.87	401.41	9316.94	218928.65
SLG-02_tt8	0.03	8.28	133070.65	24.51	11.63	4.23	2.61	1.04	0.26	117.60	6.22	351.63	6303.99	230777.12
SLG-02_tt9	0.23	67.33	137649.66	114.06	10.59	13.60	70.52	5.32	14.47	450.35	37.39	261.73	8037.26	223262.90
SEF-01_tit_1	99.0	13.63	143039.64	23.74	10.04	3.86	11.33	3.25	49.65	201.61	24.63	183.15	5917.73	211188.07
SEF-01_tit_2	0.84	19.09	142627.01	79.35	15.87	18.26	205.40	8.94	45.55	732.22	71.20	222.84	7515.47	216296.06
SEF-01_tit_3	4.05	2.49	147573.11	4.25	7.12	0.61	4.44	0.44	5.85	25.97	3.21	176.28	14077.40	205731.41
SEF-01_tit_4	0.36	50.35	145532.18	266.57	13.44	70.25	52.51	36.41	40.94	2801.09	241.45	309.38	7052.66	215041.52
SEF-01_tit_5	0.34	6.43	145057.37	11.63	10.50	1.83	5.50	0.93	4.24	69.95	6.56	168.58	15435.57	204846.07
SEF-01_tit_6	0.24	451.44	140007.25	1488.75	6.21	362.49	117.60	201.01	128.04	13490.77	1222.30	151.82	7593.59	217167.87
SEF-02_tit_1	0.29	1.34	149032.57	1.41	4.27	0.10	0.44	0.15	0.08	6.02	0.72	74.49	8178.60	207547.53
SEF-02_tit_10	0.57	2.42	148547.05	1.33	2.85	0.19	4.11	0.10	0.65	7.57	1.04	12.12	7407.33	210790.88
SEF-02_tit_11	0.43	1.55	145708.97	2.88	3.10	0.58	16.69	0.37	6.70	21.12	2.49	430.87	6250.19	215673.41
SEF-02_tit_12	6.40	1.57	155863.15	1.13	2.70	0.27	4.94	0.20	1.06	10.65	1.64	263.85	8357.32	201083.75
SEF-02_tit_13	1.26	43.09	142532.67	88.81	7.26	12.99	64.81	8.53	27.77	489.13	67.46	74.00	11542.04	211668.62
SEF-02_tit_2	0.64	0.12	146470.14	0.25	0.79	0.02	0.26	0.01	0.07	1.11	0.23	2.13	7047.56	200185.91
SEF-02_tt_3	3.29	1.78	178491.40	0.65	F.9.4 CO.C	0.10	1.45	0.12	1.49	44. 6	0.82	71.1	1737.52	169023.04
SEF-02_III_4	0.21	20.1	40109.09	70.7	2.02	0.0	67.7	0.0		22.42	4.09	+ 00.00	07.14.07	213213.30
SEF-02_III_5	0.18	0.88	143554.16	1.12	1.58	0.16	3.64	0.09	40.004	5.79	0.30	186.80	7330.63	208302.44
SEF-02 tit 7	0.59	29.12	148618.86	36.50	2.91	4.41	47.11	2.42	25.29	166.40	19.04	244.99	6175.21	214738.41
SEF-02 tit 8	2.80	10.99	147644.85	11.14	4.01	1.93	16.89	1.29	2.74	88.67	96.6	199.82	4875.69	205967.26
SEF-02_tit_9	0.30	79.43	146416.63	181.31	0.50	27.04	1.20	11.83	3.02	896.96	88.25	11.77	6879.63	217125.76
SEF-04_tit_1	13.94	44.69	145181.06	101.70	4.17	15.31	11.57	8.67	10.14	605.67	59.58	54.10	9421.14	205703.99
SEF-04_tit_2	32.57	31.92	146537.57	68.70	6.37	11.31	1.67	5.26	3.59	390.15	34.84	198.56	5958.83	221035.20
SEF-04_tit_3	0.98	3.19	144241.91	9.07	3.34	1.80	0.77	0.88	90.0	58.63	5.48	104.59	5633.30	210619.29
SEF-04_tit_4	3.23	0.95	145636.33	0.89	5.26	0.15	0.91	0.05	0.17	4.27	0.24	9.87	9961.75	203920.36
SEF-04_tit_5	2.48	7.73	148205.34	9.55	2.22	1.17	14.46		1.41	44.99	5.67	65.37	7962.24	207387.89
SEF-04_tit_6	5.60	0.08	143196.62	<0.054	12.00	<0.008	0.34	<0.006	0.08	2.18	0.58	37.25	13105.56	202819.21
*alle	lements	*all elements are in ppm.	m.											

Appendix C: Eastern Sunda arc titanite trace element chemistry (LA-ICP-MS)

Claimhean	á	à	Ü	E C	7	£	£	T <sub>m</sub>	=	>	\$	7.	-	F
or cicymin					3	2				-				
SEF-04_tit_7	10.45	71.72	149948.34	95.12	6.23	11.41	49.88	5.13	12.16	412.46	34.78	312.74	18166.41	204463.68
SINA-01_tit_1	1.37	201.20	141299.85	548.25	11.40	107.99	125.59	60.09	88.11	4041.53	447.84	293.27	8249.24	211068.04
SINA-01_tit_2	2.72	83.16	207568.96	226.20	5.62	43.54	38.94	21.47	18.65	1478.17	140.16	141.62	5880.55	151472.58
SING-01_tit_1	4.86	33.17	148313.26	76.96	2.87	11.79	21.86	3.74	14.62	363.07	22.17	188.19	9683.72	205458.56
SING-01_tit_2	0.32	1.94	144928.60	10.26	0.42	1.66	1.62	0.72	3.31	52.14	4.05	37.92	8943.55	207393.26
SING-01_tit_3	0.45	108.82	148529.02	135.46	0.58	17.48	40.63	6.61	10.49	511.77	40.86	155.01	22261.87	209926.46
SING-01_tit_4	0.27	1.1	142538.15	5.80	2.38	1.37	0.09	0.58	0.13	49.33	3.59	99.35	6396.88	221803.60
SING-02_tit_1	6.17	4.31	156742.89	11.39	2.68	2.80	23.57	2.36	4.32	125.71	16.79	71.37	3598.60	129840.74
SING-02_tt_2	23.42	26.88	169228.31	60.51	0.21	15.09	7.14	12.82	69.6	751.72	99.28	110.86	1681.08	144824.81
SING-02_tt_3	2.30	9.25	160079.58	50.09	1.48	30.01	4.97	38.06	2.40	2276.34	278.07	23.79	1729.63	134803.50
SING-02_tit_4	8.15	22.88	158549.52	71.53	0.74	16.27	11.00	11.03	5.75	968.92	84.96	46.12	2193.45	146879.63
SING-02_tit_5	7.08	5.11	172347.43	99.6	2.89	2.02	5.68	1.45	2.84	92.59	11.09	15.88	2181.58	115128.22
SING-02_tit_6	6.79	13.81	140145.75	32.70	13.21	10.85	12.96	10.89	3.62	1056.02	79.91	61.30	3329.55	187470.12
SING-02_tt_7	2.07	11.60	155630.97	22.22	2.55	6.64	78.7	6.72	2.18	408.12	50.40	46.95	1584.56	136293.68
SING-02_tit_8	6.12	21.36	155072.90	31.73	3.25	6.64	17.24	6.22	8.57	312.00	45.94	62.59	1269.76	141873.64
SING-02_tt_9	17.96	17.22	178313.27	51.94	0.17	15.24	5.47	14.78	5.09	879.56	122.82	189.93	1716.76	134823.27
SLG-03_tt_1	0.19	21.19	146977.61	30.11	9.67	3.69	48.91	2.37	15.07	118.96	17.82	253.71	11407.19	212646.99
SLG-03_tt_10	1.20	13.36	179255.50	23.02	5.29	5.02	13.95	3.10	8.97	187.18	21.69	254.18	35116.56	169579.30
SLG-03_tt_11	11.62	0.51	148710.67	1.99	4.75	1.59	6.64	1.32	3.02	71.30	8.94	161.72	27100.29	194030.20
SLG-03_tt_12	1.82	8.43	161796.69	20.07	5.94	3.81	9.64	2.05	5.73	133.93	13.47	416.08	20547.42	191988.02
SLG-03_tt_2	6.15	1.01	146606.82	4.94	6.24	5.20	6.71	6.30	9.86	355.69	39.45	80.88	25948.47	206294.40
SLG-03_tt_3	0.49	16.51	146182.07	21.21	8.00	2.45	28.15	1.76	13.36	87.89	13.58	544.86	10541.76	213186.14
SLG-03_tit_4	0.20	32.40	147670.37	60.40	3.44	9.62	29.02	5.59	16.83	304.75	40.06	149.30	9491.92	213898.12
SLG-03_tt_5	0.44	78.79	144009.24	404.95	69.64	110.57	78.42	46.87	172.83	2991.26	302.13	531.58	9648.77	213340.48
SLG-03_tt_6	3.72	0.21	149582.49	0.94	3.62	0.82	4.17	1.81	5.47	80.16	14.85	307.27	26077.55	198847.99
SLG-03_ttt_7	1.17	0.99	154823.68	99.6	3.23	5.39	1.44	1.74	2.53	171.72	10.64	144.52	9748.25	205080.90
SLG-03_tt_8	12.39	0.86	147696.06	2.73	2.31	1.23	3.40	1.30	3.89	77.18	10.03	82.86	23141.81	201724.48
SLG-03_tit_9	0.63	4.96	154694.55	12.29	2.65	1.66	1.40	96.0	0.63	57.36	6.27	169.82	12406.27	210429.85
TR-02_tit_1	19.10	1.22	104674.11	1.07	8.80	0.18	2.29	0.05	0.97	5.62	1.13	41.22	17153.40	317237.69
TR-02_tit_2	35.73	2.42	103475.48	3.32	25.81	0.56	2.39	0.31	0.95	20.65	1.66	47.78	16233.42	319591.43
TR-02_tit_3	17.50	2.98	116990.73	3.23	11.34	0.80	3.10	0.82	3.76	43.46	4.71	50.81	26299.45	274897.39
TR-02_tit_4	11.21	2.03	153835.16	9.12	11.49	2.95	4.51	2.26	1.83	105.68	14.74	262.05	14156.74	180710.63
TR-02_tit_5	28.58	99.9	109342.89	5.05	8.67	06:0	0.89	0.48	1.95	54.68	3.45	67.82	10861.08	313553.77
TR-02_tit_6	28.05	0.78	89471.86	1.30	6.91	0.20	0.45	0.09	0.61	7.52	0.72	24.20	11585.34	356522.31
TR-04_tit_1	0.97	1.64	141995.41	20.49	2.18	11.12	0.50	10.42	0.13	636.33	71.22	47.28	6416.57	216506.33
TR-04_tit_2	0.77	5.41	144270.78	51.52	7.15	26.42	29.26	23.60	5.47	1408.17	158.69	149.64	5488.68	211786.83
TR-04_tit_3	31.28	45.98	156842.24	86.54	6.37	16.72	20.53	18.51	23.36	855.47	156.52	52.47	10070.72	165568.98
BHF-02_tit1	10.13	53.84	135024.80	37.97	11.09	6.39	3.86	5.88	4.64	320.11	43.48	29.16	10722.02	222287.76
BHF-02_tit10	0.46	1.05	140829.04	3.57	17.10	0.98	1.48	1.27	0.20	51.10	8.93	31.95	14780.35	215784.46
BHF-02_tit11	2.55	96.98	132714.46	5.59	10.22	0.95	0.85	1.04	1.12	45.80	6.07	35.98	35874.36	212436.41
BHF-02_tit12	1.39	0.81	131477.87	0.73	2.88	0.11	1.54	0.15	0.90	92.9	0.78	12.76	8668.43	227055.54
BHF-02_tt13	8.81	23.42	134992.52	18.85	9.27	3.19	3.62	3.20	0.97	167.27	25.25	58.25	35738.16	214800.07
BHF-02_tt114	0.66	5.99	137125.88	29.30	16.67	7.43	1.39	5.43	1.82	306.54	41.94	65.65	11042.24	226066.63
BHF-02_tit15	4.02	0.34	141026.24	0.95	14.12	0.23	0.80	0.23	0.72	11.71	2.28	43.99	12380.20	221416.44
BHF-02_tit16	1.00	0.11	137354.95	0.70	8.07	0.36	0.10	0.59	0.95	29.76	5.72	16.30	9696.81	223594.84
BHF-02_tt2	3.45	17.84	136764.74	9.74	14.99	1.04	0.84	0.72	1.15	53.01	5.77	24.17	27201.04	210171.13
BHF-02_tit3	0.63	0.31	142172.14	2.03	8.25	0.52	0.45	0.69	0.23	28.40	5.27	19.17	12473.75	216265.53
BHF-02_tit4	4.97	0.59	140811.42	1.61	13.45	0:30	0.70	0.26	0.25	12.11	1.20	56.98	10514.84	216338.18
BHF-02_tt5	0.87	4.02	139962.51	11.14	14.31	2.50	2.71	2.68	1.40	118.20	19.13	28.76	16476.82	221134.23
BHF-02_tit6	2.63	0.43	139932.67	0.56	3.19	0.10	1.25	0.12	0.41	5.15	0.91	2.07	13685.65	211533.47
*all e	lements	*all elements are in ppm	m.											
		4												

Appendix C: Eastern Sunda arc titanite trace element chemistry (LA-ICP-MS)

944-22 Jilly         144         6.26         6.027 Jilly         154         6.02         6.02         126         126         6.02         6.02         126 <th>Analysis ID</th> <th>Pb</th> <th>Pr</th> <th>Si</th> <th>Sm</th> <th>Та</th> <th>Tb</th> <th>Th</th> <th>Tm</th> <th>Π</th> <th><b>\</b></th> <th>Yb</th> <th>Zr</th> <th>Fe</th> <th>πi</th>	Analysis ID	Pb	Pr	Si	Sm	Та	Tb	Th	Tm	Π	<b>\</b>	Yb	Zr	Fe	πi
1   1   1   1   1   1   1   1   1   1	BHF-02_tit7	1.14	0.26	138237.91	0.61	15.77	0.21	0.08	0.2				35.35	15573.56	221708.43
10.         14.         18590.09         0.04         0.04         0.05         0.04         0.05         <	BHF-02_tit8	1.41	7.59	140527.30	13.28	11.00	3.00	1.28	2.8	8		.,	19.64	15017.15	211857.24
8.1	BHF-02_tit9	1.02	1.47	135286.31	0.92	25.30	0.11	0.25	0.1	0			96.02	9592.82	227986.77
1, 10,   1	JER-01_tit1	8.72	5.22	115580.09	51.78	4.85	49.62	3.80	46.8			.,	425.98	3228.30	274563.97
<ul> <li>6.24   150   15054-30</li> <li>7.15   2.46   175   1.55   2.46   1.75   1.1</li></ul>	JER-01_tit10	13.03	4.64	127178.76	5.68	11.21	1.47	19.93	1.1	2			328.75	2017.48	238393.38
2         74         2         44         124         174         115         188         83.4         70         347.10         186527           4         1         2         1         1         2         1         1         2         1         2         34.10         186527         3         3         1         3         1         3         1         3         1         3         1         3         1         3         1         3         3         1         3         4         3         4	JER-01_tit11	6.24	1.50	152054.30	7.18	0.58	1.53	0.99	0.7				207.68	4668.86	195612.05
1	JER-01_tit12	7.49	2.17	143576.31	7.61	2.46	1.76	1.24	1.1				347.10	1895.27	214698.89
<ul> <li>7.22</li> <li>1.34</li> <li>1.40</li> <l< td=""><td>JER-01_tit13</td><td>8.11</td><td>2.22</td><td>142819.54</td><td>6.46</td><td>2.13</td><td>1.71</td><td>1.47</td><td>1.1</td><td></td><td></td><td></td><td>292.31</td><td>2880.40</td><td>211651.08</td></l<></ul>	JER-01_tit13	8.11	2.22	142819.54	6.46	2.13	1.71	1.47	1.1				292.31	2880.40	211651.08
<ul> <li>12.12</li> <li>12.14</li> <li>12.15</li> <li< td=""><td>JER-01_tit14</td><td>7.52</td><td>3.94</td><td>140981.54</td><td>7.95</td><td>2.44</td><td>2.24</td><td>1.52</td><td>7.5</td><td></td><td></td><td></td><td>280.65</td><td>3301.75</td><td>207174.61</td></li<></ul>	JER-01_tit14	7.52	3.94	140981.54	7.95	2.44	2.24	1.52	7.5				280.65	3301.75	207174.61
6         7.11         1.86         1344797.3         8.76         4.66         2.99         1.84         2.21         134.70         15.6         314.00         2.89         1.84         1.81         134.70         15.6         314.00         15.0         289.70         244.91         17.00         4.57         30.80         2.90         17.00         2.89         17.00         2.89         17.00         2.89         17.00         2.89         17.00         2.40         17.00         2.80         17.00         2.80         17.00         2.80         17.00         2.80         17.00         2.80         17.00         2.80         17.00         2.80         17.00         2.80         17.00         2.80         17.00         2.80         17.00         2.80         17.00         2.80         17.00         2.80         17.00         2.80 <td>JER-01_tit15</td> <td>12.12</td> <td>2.76</td> <td>142699.74</td> <td>98.9</td> <td>7.48</td> <td>1.83</td> <td>66.6</td> <td>1.1</td> <td></td> <td></td> <td></td> <td>228.59</td> <td>4136.12</td> <td>211324.63</td>	JER-01_tit15	12.12	2.76	142699.74	98.9	7.48	1.83	66.6	1.1				228.59	4136.12	211324.63
1	JER-01_tit16	7.11	1.86	124137.73	8.76	4.66	2.59	1.94	2.2				315.02	7706.49	251359.84
8         770         244         128000.6         439         470         1.39         1.99         1.04         6.0         266.7         344.91           7.26         1.66         1.68         1.69         1.70         1.29         2.14         1.24         0.00         286.77         910.80           8.20         1.56         1.69         1.70         1.29         2.11         7.89         8.44         2.44         1.02         2.14         1.02         2.00         2.00         1.00         2.00         2.00         2.00         1.00         2.00         2.00         2.00         2.00         1.00         2.00         2.00         2.00         1.00         2.	JER-01_tit17	9.45	2.72	134549.92	7.57	3.36	4.18	0.78	7.6				336.30	2591.05	224406.12
7.36         168         168         2.12         2.17         1.39         2.44         112.44         110.44 <th< td=""><td>JER-01_tit18</td><td>7.70</td><td>2.44</td><td>123030.26</td><td>4.39</td><td>4.70</td><td>1.33</td><td>2.99</td><td>1.0</td><td></td><td></td><td></td><td>266.27</td><td>3414.91</td><td>262199.88</td></th<>	JER-01_tit18	7.70	2.44	123030.26	4.39	4.70	1.33	2.99	1.0				266.27	3414.91	262199.88
7.36         2.51         4,067,12.71         8.81         4.34         6.53         1.70         1.25         2.11         7.89         8.94         244.41         2003.20           1.05         6.10         6.10         6.14         6.14         6.14         6.14         7.17         9.64         2.44.41         2003.20           1.05         6.15         1.2565.20         6.89         1.25         4.47         1.75         7.16         7.17         9.75         2.00.43           1.03         1.25         1.33         1.427.480         8.64         0.74         1.75         7.16         7.17         9.63.85         2.00.43           5.7         1.33         1.45         1.4021.44         2.40         0.89         0.74         1.75         7.16         7.17         9.63.85         4.63.88         4.63         0.89         0.74         7.16         7.17         9.63.86         4.63         9.89         0.74         9.75<	JER-01_tit2	7.26	1.68	143814.33	8.23	1.83	2.12	2.71	1.3				335.17	1908.62	213567.42
8.20         5.31         124904.82         1849         4.34         5.31         1.65         4.69         3.64         271.49         31.72         288.15         2200.43           1.064         6.19         1.289         1.89         1.87         1.40         4.97         8.61         9.75         288.15         2500.43           1.064         6.19         1.289         1.89         1.87         1.40         7.11         7.17         38.385         28.94         1.80         8.84         7.16         7.16         7.16         7.16         7.16         7.16         7.16         7.17         38.385         28.98         7.18         8.84         7.17         7.16         7.17         7.16         7.17         7.16         7.17         7.16         7.17         7.16         7.17         7.16         7.17         7.17         7.18         7.17         7.18         7.17         7.18         7.17         7.18 <td< td=""><td>JER-01_tit3</td><td>7.36</td><td>2.51</td><td>140612.71</td><td>8.81</td><td>1.39</td><td>1.95</td><td>1.70</td><td>1.2</td><td></td><td></td><td></td><td>244.41</td><td>2093.20</td><td>219878.38</td></td<>	JER-01_tit3	7.36	2.51	140612.71	8.81	1.39	1.95	1.70	1.2				244.41	2093.20	219878.38
1064 6 619 12568296 6689 1029 187 1402 180 169 169 187 180 181 181 18018 1819 1819 1819 1819 1	JER-01_tit4	8.20	5.31	124904.82	18.49	4.34	5.31	1.65	4.6				268.15	2200.43	250477.96
10.33	JER-01_tit5	10.64	6.19	129592.96	6.89	10.29	1.87	14.02	1.6				297.41	3180.18	242319.37
5.57         1.33         14227480         4.40         0.89         1.06         0.68         0.74         2.13         48.54         5.47         167.11         2024.83           11.03         1.45         1.46         1.46         0.89         1.35         2.15         62.34         8.89         17.2         1.36         2.15         8.29         2.25.22	JER-01_tit6	10.33	2.52	139640.01	8.55	2.09	1.75	2.47	1.1				363.85	4053.88	209566.86
11.03   145   140421.94   373   363   0.81   0.99   1.35   0.215   0.25.2     8.91   1.71   38005.36   8.14   1.26   1.25   1.92   0.88   1.72   1.94   1.07   1.27   1.25   255.2     8.91   1.71   38005.32   8.45   4.50   4.09   1.28   4.50   4.19   4.	JER-01_tit7	5.57	1.33	142374.80	4.40	0.89	1.06	0.68	0.7				167.11	2024.93	211255.59
8.91         1,71         138035.36         8.14         1,26         1,82         0.88         1,72         1,94         110.77         12.76         281.77         1883.27           2.83         19.45         19.45         19.46         11.23         7.45         601.29         71.26         271.98         600.49           2.83         19.47         1456.37         8.84         14.19         61.78         17.34         0.27         17.45         601.29         71.26         271.98         600.49           2.81         1.25         1456.93         1.89         6.70         1.24         0.27         1.34         0.27         6.04         0.04         17.41         4607.89         6.01.49         4607.89         6.04         4607.89         6.04         4607.89         6.04         4607.89         6.04         4607.89         6.04         4607.89         6.04         4607.89         4607.89         6.04         4607.89         4607.89         6.04         4607.89         4607.89         6.04         4607.89         4607.89         6.04         4607.89         4607.89         6.04         4607.89         4607.89         6.04         47.10         47.10         47.10         47.10         47.10	JER-01_tit8	11.03	1.45	140421.94	3.73	3.63	0.81	0.99	1.3				312.25	2525.22	207777.90
2.83         19.45         150.55         1.5         64.69         8.84         14.19         61.78         11.23         7.45         601.29         71.26         217.98         6201.49           4.73         1.25         141669.37         8.28         4.88         1.89         0.57         1.34         0.27         8.05         8.05         8.05         4807.83           4.73         1.25         1480.24         8.75         6.70         1.25         9.89         1.39         1.39         1.40         1.41         480.78         480.79         480.78         480.79         480.79         480.79	JER-01_tit9	8.91	1.71	138035.36	8.14	1.26	1.92	0.88	1.7				281.77	1883.27	217989.12
473         1.25         141569.37         8.28         4.88         1.89         0.57         1.34         0.27         89.78         8.05         48.98         480.78           32.11         1.58         149024.88         4.50         4.00         1.22         3.64         1.78         1.96         60.80         10.40         174.12         489.784           9.16         4.903         1.38         1.20         3.64         5.7         45.19         1.96         2560.79         1.96         174.12         489.784           4.03         1.30         1.30         1.32         1.65         5.42         35.10         3.83         7.00         229.17         17.15         184.76         3498.56           1.24         0.35         1.306.71         0.07         0.07         0.07         0.07         0.07         0.03         0.04         4.32         17865.50           3.2.86         1.25.7         1.3878.13         1.80         2.68         2.83         4.1.97         1.247         2275.70         2.84         4.80         1.863.134           1.2.4         1.25.7         1.3878.13         1.80         2.68         2.83         4.1.97         1.247         2275.	LB018_tit1	2.83	19.45	150353.21	54.69	8.84	14.19	61.78	11.2				217.98	6201.49	179752.87
32.11         1.58         149024.88         4.50         4.00         1.22         3.64         1.78         1.96         90.80         10.40         174.12         48647.84           9.16         49.03         1.68         48.03         1.69         2560.79         256.16         174.2         48647.84           1.40         48.05         1.38         1.85         5.42         35.10         3.33         7.00         229.17         21.75         184.25         3408.56           4.86         1.99.78         1.96.79         1.69         2.60         0.04         0.02         0.04         2.83         1.85         2.83         1.85         2.84         1.85         3.83         1.85         3.64         1.85         3.64         1.85         3.83         1.85         3.83         1.85         3.82         1.85         3.83         1.85         3.82         1.85         3.82         3.83         3.84         3.84         3.84	LB018_tit2	4.73	1.25	141569.37	8.28	4.88	1.89	0.57	1.3				48.98	4607.93	196725.58
9.16         49.03         139849.17         195.94         8.27         67.04         5.57         45.19         1.69         256.07         256.16         159.31         7049.16           44.65         7.33         130.20         5.42         35.10         3.59         7.00         229.17         21.75         184.25         3408.56           48.65         199.78         130.72         16.33         18.56         5.42         35.10         3.59         7.00         229.17         21.75         184.25         3408.56           3.28         199.78         190.78         20.56         10.01         10.20         0.01         220.17         7.17         21.75         186.25         3408.56           3.2.8         2.3.6         12.77         12.47         7.27         7.17         220.21         7.17         220.21         14.56         103.77         1059.55           4.16         12.47         12.47         22.75.70         22.75.70         28.47         1673.86         1673.86           2.17         137.86         2.14.9         2.14.9         2.14.9         2.14.9         2.14.9         2.14.9         2.14.9         2.14.9         2.14.9         2.14.9         2.14.9	LB018_tit3	32.11	1.58	149024.88	4.50	4.00	1.22	3.64	1.7				174.12	48547.84	180283.07
48.65         7.33         16.56         5.42         35.10         3.83         7.00         229.17         21.75         164.25         34085.96           48.65         199.78         136.07         185.02         10.81         13.13         56.71         73.02         74.78         288.272         1268.313           2.24         199.78         199.78         136.00         20.0         0.0         0.0         0.0         4.45         126.82         126.83         126.83         4.19         1.88         6.79         139.70         14.56         103.77         1603.13         1603.13         12.89         1603.13         12.89         1.88	LB018_tit4	9.16	49.03	139849.17	195.94	8.27	67.04	5.57	45.1		.,	.,	159.31	7849.16	174630.88
48.65         199.78         136.07.38         135.02         63.77         73.02         74.78         288.72         12863.13           12.44         0.35         2.07568.61         0.55         0.01         0.06         0.07         0.02         0.01         2.86         0.04         4.32         17895.50           12.44         0.35         2.07568.61         0.05         0.07         0.07         0.02         0.01         2.86         0.04         4.32         17895.50           4.16         121.57         13875.18         1.028.94         4.39         56.85         2.83         4.197         2275.0         2.47         17.284         17.50         34.47         17.283         17.283         17.283         17.283         17.283         17.283         17.299         1947.01         1923.986         1947.01         1923.986         1947.01         1923.986         1947.01         1923.986         1947.01         1965.886         1947.01         1965.886         1947.01         1965.886         1947.01         1967.00         1967.01         1967.00         1967.01         1967.00         1967.01         1966.886         1967.00         1967.00         1967.01         1967.00         1967.01         1967.01         <	LB018_tit5	140.92	7.33	107272.16	15.33	18.56	5.42	35.10	3.9				184.25	34085.96	260280.62
12.44 0.35 207568.61 0.55 0.01 0.06 0.07 0.02 0.01 2.86 0.04 4.32 17595.50 22.86 23.54 138751.18 18.00 24.79 2.88 48.73 1.88 6.79 139.12 14.56 103.77 16031.34 27 1503.24 14.56 14.57 12.84 1675.85 22 12.35	LB022_tit1	48.65	199.78	136067.38	135.02	59.37	20.05	110.81	13.1				2882.72	12863.13	209979.65
32.86 23.54 139751.18 18.00 24.79 2.68 48.73 1.88 6.79 139.12 14.56 103.77 16031.34 1.95 1.35 1.35 1.35 1.35 1.35 1.35 1.35 1.3	LB022_tit2	12.44	0.35	207568.61	0.55	0.01	90.0	0.07	0.0				4.32	175955.50	665.30
4.16 121.57 138798.57 262.64 4.39 56.85 2.83 41.97 12.47 2275.70 294.72 123.64 16758.65 2.83 2.83 41.97 12.47 2275.70 294.72 123.64 16758.65 2.83 2.17 197.86 140524.96 2.06.48 8.04 34.46 76.38 17.60 34.47 1228.31 112.99 1347.01 10239.86 3.77 361.79 1364.96 521.49 23.99 89.85 142.39 51.27 26.99 3256.91 304.06 1367.10 9958.86 3.84 31.81 elements are in ppm.	LB029_tit1	32.86	23.54	139751.18	18.00	24.79	2.68	48.73	1.8				103.77	16031.34	211353.02
2.17 197.86 140524.96 206.48 8.04 34.46 76.38 17.60 34.47 1228.31 112.99 1347.01 10239.86 3 0.72 361.79 136459.56 521.49 23.99 89.85 142.39 51.27 26.99 3256.91 304.06 1367.10 9658.86 3 *all elements are in ppm.	LB029_tit2	4.16	121.57	138798.57	262.64	4.39	56.85	2.83	41.9	•	.,	284.72	123.64	16758.65	207067.46
0.72 361.79 136459.56 521.49 23.99 89.85 142.39 51.27 26.99 3256.91 304.06 1367.10 9658.86 : *all elements are in ppm.	LB036_tit1	2.17	197.86	140524.96	206.48	8.04	34.46	76.38	17.6	.,	•	112.99	1347.01	10239.86	226368.40
*all elements are in ppm.	LB036_tft2	0.72	361.79	136459.56	521.49	23.99	89.85	142.39	51.2			.,	1367.10	9658.86	231637.27
	*all	elements	are in pp	m.											

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Appendix D: Eastern Sunda arc zircon Lu-Hf data

Hf analysis	Zircon analysis	Age (Ma)	Spot size (um)	Lu176/Hf177	2SE	Yb176/Hf177	2SE	Hf176/Hf177	2SE	StdCorr Hf176/Hf177	2SE	EHF (CHUR)
BHF-02_6	BHF-02_12	3.63	35	0.00113	0.00000	0.04443	0.00069	0.28320	0.00016	0.28329	0.00016	17.8
BHF-02_7	BHF-02_13	3.63	35	0.00314	0.00001	0.11571	0.00277	0.28309	0.00015	0.28317	0.00015	13.8
BHF-02_1	BHF-02_2	3.63	35	0.00318	0.00006	0.10650	0.00071	0.28318	0.00017	0.28326	0.00017	16.9
BHF-02_9	BHF-02_25	3.63	35	0.00143	0.00001	0.05194	0.00037	0.28311	0.00014	0.28320	0.00014	14.5
BHF-02_4	BHF-02_9	3.63	35	0.00136	0.00002	0.05384	0.00032	0.28299	0.00023	0.28308	0.00023	10.3
BHF-04_1	BHF-04_1	3.75	90	0.00137	0.00001	0.03803	0.00013	0.28313	0.00005	0.28314	0.00005	12.4
BHF-04_7	BHF-04_14	3.75	90	0.00256	0.00003	0.07922	0.00112	0.28313	0.00005	0.28322	0.00005	15.5
BHF-04_8	BHF-04_15	3.75	90	0.00034	0.00000	0.00959	0.00011	0.28312	0.00004	0.28322	0.00004	15.3
BHF-04_11	BHF-04_19	3.75	90	0.00147	0.00001	0.04135	0.0000	0.28318	0.00004	0.28318	0.00004	14.1
BHF-04_2	BHF-04_2	3.75	90	0.00101	0.00002	0.02877	0.00043	0.28311	0.00005	0.28315	0.00005	13.1
BHF-04_9	BHF-04_20	3.75	90	0.00128	0.00001	0.03713	0.00033	0.28311	0.00004	0.28321	0.00004	15.0
BHF-04_10	BHF-04_21	3.75	90	0.00105	0.00000	0.02953	0.00008	0.28314	0.00005	0.28315	0.00005	12.8
BHF-04_12	BHF-04_22	3.75	90	0.00270	0.00002	0.08231	0.00075	0.28313	0.00005	0.28314	0.00005	12.5
BHF-04_13	BHF-04_24	3.75	90	0.00102	0.00003	0.02962	0.00101	0.28309	0.00005	0.28309	0.00005	10.9
BHF-04_14	BHF-04_26	3.75	90	0.00140	0.00001	0.03980	0.00032	0.28314	0.00004	0.28315	0.00004	12.9
BHF-04_3	BHF-04_3	3.75	20	0.00128	0.00001	0.03688	0.00038	0.28310	0.00005	0.28315	0.00005	13.0
BHF-04_15	BHF-04_31	3.75	90	0.00230	0.00001	0.07132	0.00025	0.28311	0.00005	0.28312	0.00005	11.8
BHF-04_16	BHF-04_32	3.75	90	0.00116	0.00003	0.03356	0.00082	0.28308	0.00005	0.28310	0.00005	11.1
BHF-04_17	BHF-04_35	3.75	90	0.00091	0.00001	0.02716	0.00039	0.28313	0.00004	0.28316	0.00004	13.2
BHF-04_18	BHF-04_39	3.75	90	0.00101	0.00002	0.03032	0.00057	0.28314	0.00005	0.28317	0.00005	13.5
BHF-04_19	BHF-04_40	3.75	90	0.00157	0.00002	0.04578	0.00041	0.28310	0.00005	0.28314	0.00005	12.4
BHF-04_4	BHF-04_5	3.75	90	0.00144	0.00002	0.04382	0.00068	0.28311	0.00006	0.28319	0.00006	14.4
BHF-04_5	BHF-04_6	3.75	20	0.00114	0.00002	0.03192	0.00037	0.28311	0.00005	0.28320	0.00005	14.6
BHF-04_6	BHF-04_8	3.75	20	0.00262	0.00002	0.08017	0.00077	0.28315	9000000	0.28324	0.00006	16.0
ELF-01_1	ELF-01_1	2.637	35	0.00038	0.00000	0.01065	0.00008	0.28312	0.00012	0.28320	0.00012	14.7
ELF-01_2	ELF-01_10	2.637	35	0.00523	0.00004	0.15667	0.00170	0.28315	90000.0	0.28324	0.00006	16.0
ELF-01_3	ELF-01_11	2.637	35	0.00082	0.00001	0.01914	0.00017	0.28312	0.00005	0.28320	0.00005	14.6
ELF-01_4	ELF-01_15	2.637	35	0.00165	0.00004	0.03710	0.00069	0.28308	0.00006	0.28317	0.00006	13.5
ELF-01_5	ELF-01_16	2.637	35	0.00590	0.00003	0.13464	0.00057	0.28330	0.00033	0.28338	0.00033	20.9
ELF-01_6	ELF-01_17	2.637	35	0.00669	0.00005	0.22797	0.00124	0.28314	0.00007	0.28322	0.00007	15.3
ELF-01_7	ELF-01_18	2.637	35	0.00058	0.00000	0.01636	0.00015	0.28311	0.00004	0.28319	0.00004	14.4
ELF-01_8	ELF-01_28	2.637	35	0.00115	0.00002	0.03054	0.00094	0.28310	0.00005	0.28318	0.00005	13.9
ELF-01_9	ELF-01_35	2.637	35	0.00106	0.00001	0.02854	0.00041	0.28308	0.00007	0.28316	0.00007	13.3
ELF-02_3	ELF-02_12	2.745	35	0.00134	0.00000	0.03566	0.00038	0.28315	0.00005	0.28324	0.00005	16.0
ELF-02_4	ELF-02_14	2.745	35	0.00076	0.00005	0.01928	0.00102	0.28302	0.00013	0.28311	0.00013	11.6
ELF-02_5	ELF-02_19	2.745	35	0.00199	0.00003	0.05651	0.00034	0.28312	0.00005	0.28321	0.00005	15.1
ELF-02_6	ELF-02_21	2.745	35	0.00161	0.00003	0.04146	0.00040	0.28319	9000000	0.28327	0.00006	17.3
ELF-02_9	ELF-02_26	2.745	35	0.00316	0.00002	0.08294	0.00047	0.28311	0.00007	0.28319	0.00007	14.5
ELF-02_8	ELF-02_27	2.745	35	0.00271	0.00001	0.06820	0.00027	0.28323	0.00010	0.28332	0.00010	18.8
ELF-02_10	ELF-02_29	2.745	35	0.00113	0.00002	0.03257	0.00080	0.28317	0.00004	0.28326	0.00004	16.7
ELF-02_11	ELF-02_30	2.745	35	0.00168	0.00001	0.04650	0.00053	0.28316	0.00004	0.28324	0.00004	16.2
ELF-02_1	ELF-02_8	2.745	35	0.00160	0.00001	0.04542	0.00017	0.28316	0.00004	0.28325	0.00004	16.4
ELF-02_2	ELF-02_9	2.745	35	0.00154	0.00005	0.04489	0.00137	0.28306	0.00005	0.28315	0.00005	13.0
ELF-03_3	ELF-03_16	2.64	35	0.00279	0.00004	0.07512	0.00078	0.28314	0.00006	0.28317	0.00006	13.6
ELF-03_4	ELF-03_17	2.64	35	0.00102	0.00001	0.02981	0.00029	0.28315	0.00004	0.28319	0.00004	14.2
ELF-03_5	ELF-03_19	2.64	35	0.00062	0.00001	0.01468	0.00019	0.28307	0.00009	0.28311	0.00009	11.3
ELF-03_6	ELF-03_23	2.64	35	0.00111	0.00000	0.03294	0.00030	0.28314	0.00004	0.28317	0.00004	13.7
ELF-03_1	ELF-03_7	2.64	35	0.00362	0.00004	0.08425	0.00104	0.28314	0.00010	0.28317	0.00010	13.7
ELF-03_2	ELF-03_8	2.64	35	0.00195	0.00004	0.04548	0.00048	0.28314	900000	0.28317	900000	13.6

Appendix D: Eastern Sunda arc zircon Lu-Hf data

MAYON, 14, 18, 18, 18, 18, 18, 18, 18, 18, 18, 18	Zircon_analysis	Age (Ma)	Spot_size (um)	Lu176/Hf177	2SE	Yb176/Hf177	2SE	Hf176/Hf177	2SE	StdCorr Hf176/Hf177	2SE	EHF (CHUR)
35         0.00758         0.000040         0.000148         0.000040         0.000148         0.000044         0.000144         0.000044         0.		5.55	35	0.00085	0.00001	0.03022	0.00022	0.28314	0.00012	0.28324	0.00012	16.0
35         0.000050         0		5.55	35	0.00126	0.00003	0.04819	0.00080	0.28312	0.00014	0.28322	0.00014	15.4
5.55         3.5         0.00078         0.000		5.55	35	0.00066	0.00000	0.02222	0.00018	0.28310	0.00011	0.28317	0.00011	13.5
160         35         0.00079		5.55	35	0.00105	0.00000	0.03798	0.00020	0.28326	0.00012	0.28336	0.00012	20.3
6.6         5.6         0.00071         0.00020         0.00024         0.0002		5.05	35 35	0.00183	0.00000	0.04356	0.00093	0.28309	0.00008	0.28315	0.00008	12.8
6.66         3.5         COMPIGN         COMODIA         COMOD		5.05	35	0.00097	0.00002	0.02327	0.00083	0.28314	0.00012	0.28322	0.00012	15.3
6.06         3.5         0.000091         0.000091         0.000091         0.000091         0.000091         0.000091         0.000091         0.000091         0.000091         0.000091         0.000091         0.000091         0.000091         0.000091         0.000091         0.000092         0.000091         0.000092         0.00	<b>&amp;</b>	5.05	35	0.00193	0.00001	0.05570	0.00018	0.28310	0.00006	0.28318	0.00006	14.0
6.06         5.5         0.00063         0.00061         0.00063         0.00063         0.00064         0.00069         0.000	6	5.05	35	0.00091	0.00001	0.02444	0.00022	0.28314	0.00005	0.28322	0.00005	15.2
5.65         3.5         0,000/43         0,000/43         0,000/43         0,000/43         0,000/44         0,00	2	5.05	35	0.00083	0.00001	0.02247	0.00039	0.28313	0.0000	0.28320	0.00009	14.8
5.66         3.5         0,000/151         0,000/151         0,000/151         0,000/151         0,000/151         0,000/151         0,000/151         0,000/151         0,000/151         0,000/151         0,000/152	23	5.05	35	0.00163	0.00003	0.04611	0.00039	0.28314	0.00007	0.28322	0.00007	15.4
566         35         0.000141         0.000041         0.000041         0.000041         0.000041         0.000041         0.000041         0.000041         0.000041         0.000041         0.000040         0.0000	NEF-02_24	5.05	35	0.00151	0.00001	0.04273	0.00025	0.28312	0.00006	0.28320	0.00006	14.6
5.65         3.5         0.000198         0.000109         0.000209         0.028291         0.00009         0.028291         0.00009	NEF-02_29	5.05	35	0.00114	0.00001	0.03377	0.00025	0.28299	0.00014	0.28307	0.00014	10.0
5/6         35         0.000169         0.00000         0.00004         0.00006         0.28313         0.00006         0.28250         0.00006         0.0000	8	5.05	35	0.00178	0.00004	0.04100	0.00060	0.28307	0.00009	0.28315	0.00009	13.0
5/6         35         0.000169         0.000790         0.0007	NEF-02_30	5.05	35	0.00198	0.00003	0.06101	0.00122	0.28319	0.00006	0.28326	0.00006	17.0
505         35         0.000085         0.000090         0.0000	NEF-02_32	5.05	35	0.00169	0.00001	0.04794	0.00009	0.28312	0.00006	0.28320	0.00006	14.7
516         35         0.00010         0.00051         0.00056	NEF-02_33	5.05	35	0.00085	0.00001	0.02509	0.00038	0.28313	0.00006	0.28321	0.00006	15.0
5 65         35         0,00006         0,00075         0,0007	NEF-02_34	5.05	35	0.00107	0.00000	0.03116	0.00015	0.28309	0.00006	0.28317	0.00006	13.7
6.66         3.5         0.00171         0.000077         0.228319         0.000077         0.28311         0.00007           6.66         3.5         0.00173         0.000073         0.028319         0.000076         0.28314         0.000005           6.66         3.5         0.00173         0.000013         0.002249         0.000023         0.28314         0.000005         0.28314         0.000005           2.745         3.5         0.00013         0.00001         0.00024         0.00014         0.28317         0.00005         0.28314         0.00005         0.00005         0.00005         0.00005         0.00005         0.00005         0.00005         0.00005         0.00005         0.00005         0.00005         0.00005         0.00005         0.00005         0.00001         0.0000	VEF-02_36	5.05	35	0.00096	0.00001	0.02716	0.00022	0.28314	0.00006	0.28322	0.00006	15.4
5 66         35         0.010131         0.000030         0.022348         0.000045         0.022340         0.00005         0.02340         0.00005           5 66         3.5         0.001743         0.00003         0.02249         0.00002         0.02340         0.00005         0.00004	NEF-02_37	5.05	35	0.00177	0.00001	0.04711	0.00027	0.28309	0.00007	0.28317	0.00007	13.7
56         35         000163         000000         000009         0.28340         0.00006         0.28340         0.00006           2.746         35         0.00778         0.00003         0.78341         0.00005         0.28347         0.00005         0.00005         0.00004         0.00005         0.00004 <td< td=""><td>NEF-02_4</td><td>5.05</td><td>35</td><td>0.00131</td><td>0.00003</td><td>0.03867</td><td>0.00078</td><td>0.28310</td><td>0.00005</td><td>0.28318</td><td>0.00005</td><td>13.9</td></td<>	NEF-02_4	5.05	35	0.00131	0.00003	0.03867	0.00078	0.28310	0.00005	0.28318	0.00005	13.9
5.05         5.05         5.00         0.00079	NEF-02_5	2.05	35	0.00163	0.00003	0.04743	0.00079	0.28306	0.00006	0.28314	0.00006	12.5
2.746         3.5         0.000151         0.000052         0.000046         0.288377         0.00001         0.000012           5.55         3.5         0.00093         0.00001         0.00004         0.288377         0.00011         0.288373         0.00011           5.55         3.5         0.00093         0.00001         0.00004         0.00049         0.00011         0.288373         0.00011         0.288373         0.00011           4.48         3.5         0.00096         0.00001         0.00096         0.00004         0.00014         0.00011         0.288373         0.00011         0.288373         0.00011           2.96         3.5         0.00096         0.00001         0.00096         0.00096         0.00017         0.00011	NEF-02_8	5.05	35	0.00078	0.00001	0.02249	0.00023	0.28312	0.00005	0.28320	0.00005	14.8
5.55         35         0.000911         0.000011         0.028311         0.000011           5.56         35         0.00093         0.00001         0.00014         0.22837         0.00001         0.00001           4.48         35         0.00093         0.00001         0.00014         0.22837         0.00011         0.23338         0.00001           2.95         35         0.00096         0.00002         0.00014		2.745	35	0.00336	0.00003	0.07994	0.00066	0.28317	0.00012	0.28326	0.00012	
5.55         35         0.000034         0.000014         0.02831         0.000011         0.22832         0.000011           14.8         35         0.000043         0.00004         0.00004         0.00004         0.00001         0.00011         0.00011         0.00011           14.8         35         0.000043         0.00002         0.00018         0.00004         0.00011         0.00012         0.00012         0.00012         0.00012         0.00012         0.00012         0.00012         0.00014         0.0		5.55	35	0.00191	0.00003	0.06924	0.00104	0.28321	0.00011	0.28331	0.00011	
1,50         3,50         1,50 <th< td=""><td></td><td>5.55</td><td>35</td><td>0.00093</td><td>0.00001</td><td>0.03447</td><td>0.00014</td><td>0.28313</td><td>0.00011</td><td>0.28323</td><td>0.00011</td><td></td></th<>		5.55	35	0.00093	0.00001	0.03447	0.00014	0.28313	0.00011	0.28323	0.00011	
14.8         3.5         0.00014         0.00002         0.00015         0.00004         0.00014         0.000		0.00	000	0.00093	00000	0.03110	0.000.0	0.28307	2,000	0.26317	0.0000	
2.95         35         0.00085         0.00004         0.01945         0.00014         0.00014         0.00014         0.00014         0.00014         0.00015         0.00016         0.00005         0.28314         0.00004         0.28320         0.00005           2.95         35         0.00116         0.00000         0.00526         0.00000         0.00547         0.00004         0.28317         0.00006         0.28319         0.00006           2.95         35         0.00022         0.00000         0.00677         0.00004         0.00347         0.00004         0.28317         0.00004         0.28321         0.00004           2.96         35         0.00022         0.00000         0.04677         0.00004         0.28317         0.00004         0.28317         0.00004         0.28321         0.00004           2.95         35         0.00077         0.00000         0.04677         0.00004         0.28317         0.00004         0.28319         0.00004           6.94         35         0.00028         0.00002         0.0745         0.00044         0.00004         0.28317         0.00004         0.28318         0.00004         0.28319         0.00004           6.94         35         0.00028		24.6	32.0	0.00096	0.00002	0.03036	0.00095	0.28312	0.00011	0.2832	0.00011	
2.95         35         0.00199         0.00675         0.00199         0.00156         0.00159         0.00169         0.00543         0.00169         0.00169         0.00169         0.00169         0.00169         0.00169         0.00169         0.00169         0.00169         0.00169         0.00169         0.00169         0.00169         0.00169         0.00164         0.00164         0.00016         0.00164         0.00164         0.00016         0.0001	SPF-05 1	2.95	35	0.00085	0.00001	0.01945	0.00015	0.28314	0.00014	0.28317	0.00014	13.7
2.96         35         0.00016         0.00355         0.00064         0.2831         0.00004         0.2831         0.00004         0.2831         0.00004         0.2831         0.00004         0.2831         0.00004         0.00004         0.2831         0.00004         0.00004         0.2831         0.00004         0.00004         0.2831         0.00004         0.00004         0.00004         0.2831         0.00004	SPF-05_10	2.95	35	0.00199	0.00003	0.06576	0.00159	0.28316	0.00005	0.28320	0.00005	14.8
2.96         35         0.000226         0.00064         0.00034         0.28317         0.00004         0.28321         0.00004           2.96         35         0.00130         0.00002         0.04657         0.00047         0.28317         0.00004         0.28329         0.00004           2.96         35         0.000130         0.00002         0.04657         0.00014         0.02831         0.00004         0.28319         0.00004           2.96         35         0.00020         0.00002         0.00134         0.00014         0.00004         0.28319         0.00004         0.00004           1         6.94         35         0.00226         0.00002         0.01740         0.00034         0.28314         0.00004         0.28330         0.00014           2         6.94         35         0.00226         0.00012         0.00144         0.00054         0.28312         0.00013         0.00014 <td>SPF-05_15</td> <td>2.95</td> <td>35</td> <td>0.00116</td> <td>0.00000</td> <td>0.03535</td> <td>0.00060</td> <td>0.28315</td> <td>0.00006</td> <td>0.28319</td> <td>0.00006</td> <td>14.2</td>	SPF-05_15	2.95	35	0.00116	0.00000	0.03535	0.00060	0.28315	0.00006	0.28319	0.00006	14.2
2.95         35         0.00130         0.00065         0.00047         0.2831         0.00004         0.28319         0.00004           2.96         35         0.00062         0.00060         0.00653         0.00019         0.28314         0.00004         0.28319         0.00004           2.96         35         0.00007         0.00002         0.00556         0.00005         0.28314         0.00004         0.28318         0.00004           1         6.94         35         0.00228         0.00002         0.07170         0.00054         0.28313         0.00011         0.28320         0.00001           2         6.94         35         0.00228         0.00002         0.07170         0.00054         0.28313         0.00014         0.28320         0.00014           3         0.0012         0.0002         0.07144         0.00054         0.28312         0.00016         0.00014           4         6.94         35         0.00160         0.00004         0.00071         0.28312         0.00016         0.00014           5         0.00160         0.00014         0.00004         0.00024         0.00024         0.00014         0.00014         0.00014         0.00014         0.00014	SPF-05_5	2.95	35	0.00226	0.00002	0.07641	0.00034	0.28317	0.00004	0.28321	0.00004	15.1
2.96         35         0.000052         0.000060         0.01663         0.00014         0.28316         0.00004         0.28318         0.00004           2.95         35         0.00077         0.00060         0.28314         0.00004         0.28318         0.00004           1         6.94         35         0.00228         0.00002         0.0774         0.00062         0.28313         0.00013         0.28320         0.00001           1         6.94         35         0.00228         0.00002         0.07144         0.00062         0.28313         0.00013         0.28320         0.00013           2         6.94         35         0.00226         0.00002         0.07144         0.00062         0.28313         0.00013         0.28320         0.00013           3         0.00160         0.00016         0.00014         0.00064         0.00071         0.28312         0.00016         0.00016           4         6.94         35         0.00167         0.00004         0.00071         0.00014         0.00004         0.28312         0.00016           6.94         35         0.00167         0.00004         0.00021         0.00014         0.00001         0.28314         0.00014	SPF-05_8	2.95	35	0.00130	0.00000	0.04057	0.00047	0.28317	0.00004	0.28321	0.00004	15.0
2.86         35         0.000077         0.00000         0.02557         0.00004         0.28318         0.00004           6.94         35         0.00208         0.00002         0.00771         0.00036         0.28313         0.00001         0.28318         0.00001           1         6.94         35         0.00228         0.00002         0.07144         0.00032         0.00013         0.00013         0.00013           2         6.94         35         0.00228         0.00002         0.07144         0.00062         0.28313         0.00013         0.28320         0.00013           3         0.00160         0.00022         0.07144         0.00062         0.08639         0.08631         0.00014	SPF-05_9	2.95	35	0.00052	0.00000	0.01653	0.00019	0.28315	0.00004	0.28319	0.00004	14.2
6.94         35         0.00208         0.006571         0.00134         0.28310         0.00011         0.28318         0.00011           1         6.94         35         0.00228         0.00002         0.07770         0.00036         0.28333         0.00013         0.28320         0.00013           2         6.94         35         0.00212         0.00002         0.0774         0.00054         0.28333         0.00013         0.28320         0.00014           4         6.94         35         0.00160         0.00004         0.04700         0.00054         0.28323         0.00016         0.00017           5         6.94         35         0.00160         0.00004         0.00071         0.28321         0.00016         0.00014           6         5         0.00160         0.00004         0.00071         0.00071         0.28322         0.00016         0.00017           6         4         35         0.00146         0.00002         0.04340         0.00021         0.00013         0.00014         0.00013         0.00014         0.00014         0.00014         0.00014         0.00014         0.00014         0.00014         0.00014         0.00014         0.00014         0.00014         0.	SPF-05_9	2.95	35	0.00077	0.00000	0.02557	0.00005	0.28314	0.00004	0.28318	0.00004	13.8
6 54         35         0.00228         0.00710         0.00038         0.28313         0.00013         0.28320         0.00013           1         6.54         35         0.00236         0.00002         0.00069         0.00062         0.28313         0.00016         0.28320         0.00016           1         6.54         35         0.00146         0.00002         0.04700         0.00071         0.28312         0.00016         0.00016           1         6.54         35         0.00146         0.00004         0.0470         0.00071         0.28312         0.00016         0.00016           6         34         35         0.00146         0.00004         0.04644         0.00024         0.28314         0.00019         0.28320         0.00014           6         34         35         0.00146         0.00002         0.04644         0.00044         0.28314         0.00013         0.28326         0.00014           6         34         35         0.00148         0.00003         0.04644         0.00044         0.28314         0.00013         0.28316         0.00014         0.00014         0.00014         0.00014         0.00014         0.00014         0.00014         0.00014         0.00014<	JEM-02_1	6.94	35	0.00208	0.00003	0.06571	0.00134	0.28310	0.00011	0.28318	0.00011	13.8
6 54         35         0.00236         0.007134         0.00624         0.28813         0.00013         0.28820         0.00013           6 54         35         0.00212         0.00880         0.00054         0.28832         0.00016         0.28839         0.00016           1         6 54         35         0.0016         0.00004         0.00071         0.28831         0.00014         0.28839         0.00014           6 54         35         0.00146         0.00004         0.00044         0.00044         0.28831         0.00014         0.28832         0.00014           6 54         35         0.00148         0.00003         0.04426         0.00034         0.28812         0.00013         0.28832         0.00014           6 54         35         0.00148         0.00018         0.0003         0.0425         0.0003         0.28314         0.00013         0.28322         0.00013           6 54         35         0.00148         0.0003         0.03724         0.0017         0.28316         0.00013         0.28316         0.00013           6 54         35         0.00148         0.0003         0.03724         0.0017         0.28316         0.00011         0.28316         0.00011	JEM-02_10	6.94	35	0.00228	0.00002	0.07170	0.00036	0.28313	0.00013	0.28320	0.00013	14.8
6 54         35         0.00012         0.00054         0.00054         0.2831         0.00016         0.28329         0.00016           1         6.54         35         0.00160         0.00004         0.04700         0.00071         0.28311         0.00010         0.28318         0.00010           6         4         35         0.00146         0.00002         0.04474         0.00024         0.28312         0.00014         0.28320         0.00014           6         4         35         0.00147         0.00002         0.04426         0.00039         0.28314         0.00013         0.28320         0.00013           6         3         0.00148         0.00003         0.04426         0.00039         0.28314         0.00013         0.28322         0.00013           6         3         0.00148         0.00003         0.04426         0.00039         0.28314         0.00013         0.28322         0.00013           6         3         0.00148         0.00003         0.03724         0.0017         0.28316         0.00013         0.28316         0.00011           6         3         0.00149         0.00003         0.0574         0.0017         0.28312         0.00011 <t< td=""><td>JEM-02_11</td><td>6.94</td><td>35</td><td>0.00236</td><td>0.00002</td><td>0.07134</td><td>0.00062</td><td>0.28313</td><td>0.00013</td><td>0.28320</td><td>0.00013</td><td>14.7</td></t<>	JEM-02_11	6.94	35	0.00236	0.00002	0.07134	0.00062	0.28313	0.00013	0.28320	0.00013	14.7
6 54         35         0.00160         0.00074         0.00071         0.2831         0.00010         0.28218         0.00010           1         6.54         35         0.00146         0.00001         0.00021         0.28312         0.00014         0.00014         0.00021         0.28321         0.00014         0.00014           6.54         35         0.00148         0.00003         0.04425         0.00039         0.28314         0.00013         0.28320         0.00013           6.54         35         0.00148         0.00003         0.04425         0.00197         0.28314         0.00013         0.28326         0.00013           6.54         35         0.00148         0.00003         0.02724         0.01077         0.28319         0.00011         0.28327         0.00013           6.54         35         0.00148         0.00003         0.0275         0.00177         0.28319         0.00011         0.28315         0.00011           6.54         35         0.00149         0.00004         0.00577         0.20377         0.28316         0.00011         0.28316         0.00011           6.54         35         0.00149         0.000041         0.04477         0.00072         0.28316 <td>JEM-02_12</td> <td>6.94</td> <td>35</td> <td>0.00212</td> <td>0.00002</td> <td>0.06809</td> <td>0.00054</td> <td>0.28322</td> <td>0.00016</td> <td>0.28329</td> <td>0.00016</td> <td>18.0</td>	JEM-02_12	6.94	35	0.00212	0.00002	0.06809	0.00054	0.28322	0.00016	0.28329	0.00016	18.0
6 54         35         0.00014         0.00021         0.28312         0.00014         0.28320         0.00014           6 54         35         0.0157         0.00022         0.00644         0.28314         0.00013         0.28320         0.00013           6 54         35         0.00138         0.00003         0.04674         0.00047         0.28314         0.00013         0.28322         0.00013           6 54         35         0.0018         0.00003         0.0275         0.0107         0.28314         0.00013         0.28322         0.00013           6 54         35         0.00184         0.00003         0.0275         0.0107         0.28319         0.00011         0.28327         0.00013           6 54         35         0.00184         0.00003         0.0275         0.0107         0.28319         0.00011         0.28317         0.00011           6 54         35         0.00149         0.00001         0.0477         0.0377         0.2831         0.00011         0.2831         0.00011           6 54         35         0.00149         0.00001         0.0245         0.00074         0.2839         0.00011         0.28315         0.00011           6 54         35	JEM-02_13	6.94	35	0.00160	0.00004	0.04700	0.00071	0.28311	0.00010	0.28318	0.00010	14.0
6 54         35         0.00157         0.00022         0.04614         0.00034         0.28312         0.00013         0.28320         0.00013           6 54         35         0.0138         0.00033         0.04425         0.00039         0.2814         0.00013         0.28322         0.00013           6 54         35         0.00148         0.00003         0.0374         0.0177         0.28319         0.00013         0.28325         0.00013           6 54         35         0.00148         0.00003         0.02075         0.00179         0.28319         0.00011         0.28317         0.00011           6 54         35         0.00149         0.00004         0.04797         0.04837         0.00017         0.28317         0.00011           6 54         35         0.00149         0.00001         0.04797         0.02435         0.00014         0.28317         0.00014           6 54         35         0.00148         0.00001         0.02453         0.00024         0.28395         0.00014         0.28312         0.00018           14.52         35         0.00069         0.00001         0.2443         0.00024         0.28399         0.00017         0.28316         0.00017	JEM-02_14	6.94	35	0.00146	0.00001	0.04340	0.00021	0.28312	0.00014	0.28320	0.00014	14.6
6.94 35 0.00138 0.00033 0.04425 0.00039 0.28314 0.00013 0.28322 0.00013 (5.4 2.2 2.2 2.2 2.2 2.2 2.2 2.2 2.2 2.2 2	JEM-02_15	6.94	35	0.00157	0.00002	0.04614	0.00084	0.28312	0.00013	0.28320	0.00013	14.6
6.94 35 0.00118 0.00033 0.03724 0.00127 0.28318 0.00013 0.28325 0.00013 0.00013 0.00013 0.00013 0.00014 0.00014 0.00014 0.00014 0.00014 0.00014 0.00014 0.00014 0.0014 0.0014 0.0014 0.0014 0.0014 0.0017 0.2837 0.00114 0.2831 0.0011 0.2831 0.00011 0.00114 0.00014 0.00014 0.00017 0.00014 0.00017 0.00014	JEM-02_2	6.94	35	0.00138	0.00003	0.04425	0.00093	0.28314	0.00013	0.28322	0.00013	15.2
6.94 35 0.00068 0.00073 0.02075 0.00109 0.28319 0.00011 0.28327 0.00011 0.0011 0.0011 0.00011 0.00011 0.00011 0.00011 0.00011 0.00012 0.00011 0.00012 0.00011 0.00012 0.00011 0.00012 0.00011	JEM-02_3	6.94	35	0.00118	0.00003	0.03724	0.00127	0.28318	0.00013	0.28325	0.00013	16.5
6.94 35 0.00184 0.00033 0.05794 0.00107 0.28307 0.00012 0.28315 0.00012 0.00112 0.00114 0.00013 0.00371 0.28312 0.00011 0.28319 0.00011 0.00371 0.00077 0.28319 0.00011 0.28319 0.00011 0.28319 0.00011 0.28319 0.00011 0.28319 0.00011 0.28319 0.00011 0.28310 0.00011 0.28310 0.00011 0.28310 0.00011 0.28310 0.00011	JEM-02_5	6.94	35	0.00068	0.00003	0.02075	0.00109	0.28319	0.00011	0.28327	0.00011	17.0
6.94 35 0.00149 0.00001 0.04357 0.00077 0.28312 0.00011 0.28319 0.00011 6.94 35 0.00148 0.0001 0.03770 0.00056 0.28305 0.00018 0.28312 0.00018 14.52 35 0.00069 0.00011 0.02453 0.00024 0.28309 0.00017 0.28316 0.00017	JEM-02_7	6.94	35	0.00184	0.00003	0.05794	0.00107	0.28307	0.00012	0.28315	0.00012	12.8
6.94 35 0.00148 0.00011 0.03770 0.00066 0.28305 0.00018 0.28312 0.00018 14.52 35 0.00069 0.00001 0.02453 0.00024 0.28309 0.00017 0.28316 0.00017	JEM-02_8	6.94	35	0.00149	0.00001	0.04357	0.00077	0.28312	0.00011	0.28319	0.00011	14.3
14.52 35 0,00069 0,00001 0,02453 0,00024 0,28309 0,00017 0,28316 0,00017	JEM-02_9	6.94	35	0.00148	0.00001	0.03770	0.00056	0.28305	0.00018	0.28312	0.00018	12.0
10000 00000 10000 00000 00000 00000	JER-01 1	14.52	35	0.00069	0.00001	0.02453	0.00024	0.28309	0.00017	0.28316	0.00017	13.3

Appendix D: Eastern Sunda arc zircon Lu-Hf data

Hf analysis	Zircon analysis	Age (Ma)	Spot size (um)	Lu176/Hf177	2SE	Yb176/Hf177	2SE	Hf176/Hf177	2SE	StdCorr Hf176/Hf177	2SE	EHF (CHUR)
JER-01 6	JER-01 10	14.52	35	0.00083	0.00002	0.03011	96000:0	0.28326	0.00015	0.28332	0.00015	19.0
JER-01_7	JER-01_11	14.52	35	0.00113	0.00001	0.04291	0.00039	0.28314	0.00022	0.28321	0.00022	15.1
JER-01_8	JER-01_13	14.52	35	0.00075	0.00001	0.02462	0.00047	0.28324	0.00014	0.28330	0.00014	18.4
JER-01_9	JER-01_18	14.52	35	0.00124	0.00001	0.04081	0.00115	0.28316	0.00017	0.28323	0.00017	15.6
JER-01_10	JER-01_19	14.52	35	0.00096	0.00002	0.02815	0.00019	0.28320	0.00015	0.28326	0.00015	16.9
JER-01_11	JER-01_20	14.52	35	0.00160	0.00001	0.05468	96000.0	0.28312	0.00014	0.28319	0.00014	14.3
JER-01_12	JER-01_21	14.52	35	0.00129	0.00004	0.03802	0.00064	0.28312	0.00013	0.28319	0.00013	14.3
JER-01_2	JER-01_4	14.52	35	0.00139	0.00001	0.04980	0.00042	0.28311	0.00017	0.28317	0.00017	13.7
JER-01_3	JER-01_5	14.52	35	0.00105	0.00002	0.02861	0.00112	0.28310	0.00013	0.28317	0.00013	13.5
JER-01_4	JER-01_7	14.52	35	0.00069	0.00001	0.02509	0.00036	0.28326	0.00026	0.28332	0.00026	19.0
JER-01_5	JER-01_9	14.52	35	0.00214	0.00001	0.07901	0.00045	0.28325	0.00018	0.28331	0.00018	18.7
JEM-02_8		6.94	35	0.00192	0.00002	0.05811	0.00104	0.28328	0.00012	0.28335	0.00012	
SINA-04_11		24.72	35	0.00188	0.00000	0.06806	0.00028	0.28308	0.00011	0.28315	0.00011	
SINA-04_12		24.72	35	0.00199	0.00001	0.07255	0.00067	0.28314	0.00011	0.28321	0.00011	
SINA-04_13		24.72	35	0.00181	0.00002	0.06220	0.00085	0.28321	0.00012	0.28328	0.00012	
SINA-04_14		24.72	35	0.00207	0.00003	0.07436	0.00089	0.28312	0.00011	0.28319	0.00011	
SINA-04_15		24.72	35	0.00269	0.00008	0.10714	0.00531	0.28318	0.00021	0.28325	0.00021	
TR-02_3		14.8	35	0.00124	0.00002	0.03916	0.00068	0.28307	0.00011	0.28318	0.00011	
TR-02_8		14.8	35	0.00096	0.00002	0.03036	0.00095	0.28312	0.00011	0.28322	0.00011	
UG012184_11		4.5	35	0.00122	0.00000	0.03018	0.00016	0.28308	0.00014	0.28316	0.00014	
UG012184_6		4.5	35	0.00228	0.00001	0.05725	0.00034	0.28300	0.00010	0.28308	0.00010	
UG012198_4		6.12	35	0.00277	9000000	0.07447	0.00127	0.28306	60000.0	0.28313	0.00009	
PCT-01_5	PCT-01_15	27.92	20	0.00250	0.00005	0.07820	0.00121	0.28314	0.00004	0.28317	0.00004	13.5
PCT-01_6	PCT-01_17	27.92	20	0.00251	0.00000	0.07979	0.00027	0.28315	0.00005	0.28317	0.00005	13.7
PCT-01_1	PCT-01_2	27.92	20	0.00264	0.00001	0.08554	0.00055	0.28316	0.00005	0.28327	0.00005	17.0
PCT-01_7	PCT-01_20	27.92	20	0.00243	0.00002	0.07613	0.00040	0.28317	0.00006	0.28320	0.00006	14.5
PCT-01_8	PCT-01_21	27.92	20	0.00370	0.00007	0.10613	0.00149	0.28319	0.00007	0.28321	0.00007	15.0
PCT-01_9	PCT-01_23	27.92	20	0.00321	0.00004	0.09377	0.00101	0.28312	0.00007	0.28314	0.00007	12.6
PCT-01_10	PCT-01_25	27.92	20	0.00266	0.00004	0.08767	0.00151	0.28314	0.00008	0.28324	0.00008	15.9
PCT-01_11	PCT-01_26	27.92	20	0.00312	0.00003	0.10080	0.00112	0.28319	0.00004	0.28328	0.00004	17.5
PCT-01_12	PCT-01_36	27.92	20	0.00307	0.00007	0.10213	0.00269	0.28308	0.00010	0.28315	0.00010	13.0
PCT-01_2	PCT-01_4	27.92	20	0.00327	0.00002	0.10444	0.00070	0.28314	0.00005	0.28321	0.00005	15.0
PCT-01_4	PCT-01_5	27.92	20	0.00272	0.00002	0.08327	0.00028	0.28311	0.00005	0.28314	0.00005	12.4
PCT-01_3	PCT-01_6	27.92	20	0.00202	0.00005	0.06500	0.00168	0.28312	0.00005	0.28318	0.00005	13.8
SINA-01_1	SINA-01_1	24.43	35	0.00201	0.00001	0.08297	0.00026	0.28306	0.00015	0.28312	0.00015	12.0
SINA-01_5	SINA-01_10	24.43	35	0.00244	0.00004	0.07072	0.00129	0.28301	0.00059	0.28308	0.00059	10.4
SINA-01_6	SINA-01_12	24.43	35	0.00164	0.00001	0.06488	0.00069	0.28313	0.00014	0.28319	0.00014	14.4
SINA-01_7	SINA-01_14	24.43	35	0.00224	0.00003	0.09135	0.00061	0.28311	0.00015	0.28317	0.00015	13.7
SINA-01_2	SINA-01_2	24.43	35	0.00222	0.00001	0.09112	0.00051	0.28317	0.00015	0.28324	0.00015	16.0
SINA-01_9	SINA-01_22	24.43	35	0.00302	0.00005	0.09939	0.00175	0.28323	0.00030	0.28330	0.00030	18.1
SINA-01_10	SINA-01_27	24.43	35	0.00689	0.00018	0.25105	0.00510	0.28299	0.00016	0.28306	0.00016	2.6
SINA-01_11	SINA-01_29	24.43	35	0.00207	0.00003	0.06316	0.00041	0.28314	0.00014	0.28320	0.00014	14.8
SINA-01_12	SINA-01_32	24.43	35	0.00200	0.00001	0.08180	0.00081	0.28313	0.00013	0.28320	0.00013	14.6
SINA-01_13	SINA-01_34	24.43	35	0.00122	0.00000	0.05008	0.00035	0.28320	0.00014	0.28327	0.00014	17.0
SINA-01_3	SINA-01_8	24.43	35	0.00222	0.00008	0.08904	0.00490	0.28323	0.00016	0.28330	0.00016	18.1
SINA-01_4	SINA-01_9	24.43	35	0.00240	0.00003	0.10101	0.00120	0.28318	0.00016	0.28325	0.00016	16.4
SINA-02_1	SINA-02_1	24.54	20	0.00157	0.00000	0.05865	0.00036	0.28315	0.00006	0.28318	0.00006	13.9
SINA-02_2	SINA-02_2	24.54	20	0.00191	0.00002	0.07095	0.00057	0.28317	0.00005	0.28320	0.00005	14.6
SINA-02_4	SINA-02_21	24.54	20	0.00166	0.00001	0.05869	0.00105	0.28313	0.00005	0.28317	0.00005	13.6
SINA-02_5	SINA-02_22	24.54	20	0.00164	0.00001	0.06326	0.00066	0.28315	0.00005	0.28319	0.00005	14.3

Appendix D: Eastern Sunda arc zircon Lu-Hf data

Hf analysis	Zircon analysis	Age (Ma)	Spot size (um)	Lu176/Hf177	2SE	Yb176/Hf177	2SE	Hf176/Hf177	2SE	StdCorr Hf176/Hf177	2SE	EHF (CHUR)
SINA-02 6	SINA-02 25	24.54	20	0.00230	0.00002	0.07867	0.00050	0.28317	0.00006	0.28322	0.00006	15.3
SINA-02_7	SINA-02_32	24.54	20	0.00249	0.00002	0.09575	0.00032	0.28315	0.00005	0.28319	0.00005	14.2
SINA-02_8	SINA-02_34	24.54	20	0.00199	0.00001	0.08437	0.00152	0.28324	0.00008	0.28327	0.00008	17.2
SINA-02_3	SINA-02_8	24.54	20	0.00245	0.00003	0.08924	0.00100	0.28324	0.00010	0.28327	0.00010	17.2
SINA-04_3	SINA-04_14	24.72	35	0.00299	0.00006	0.08412	0.00118	0.28315	0.00013	0.28322	0.00013	15.2
SINA-04_4	SINA-04_22	24.72	35	0.00183	0.00002	0.06398	0.00070	0.28313	0.00011	0.28320	0.00011	14.6
SINA-04_5	SINA-04_26	24.72	35	0.00163	0.00001	0.05568	0.00047	0.28309	0.00012	0.28316	0.00012	13.3
SINA-04_6	SINA-04_27	24.72	32	0.00214	0.00003	0.07573	0.00078	0.28307	0.00016	0.28314	0.00016	12.4
SINA-04_1	SINA-04_3	24.72	06	0.00238	0.00002	0.08975	0.000.0	0.28313	0.00008	0.28310	0.00008	- d
SINA-04_7	SINA-04_35	24.72	35	0.00240	0.00003	0.08874	0.00066	0.28315	0.00011	0.28322	0.00011	15.2
SINA-04_10	SINA-04_36	24.72	35	0.00247	0.00003	0.09262	0.00185	0.28316	0.00012	0.28323	0.00012	15.8 4.3
SINA-04_9	SINA-04_3/	24.72	3 3	0.00200	0.00002	0.0651	0.00033	0.26317	0.000 14	0.20324	0.00014	- 6
SINA-04 2	SINA-04_30	24.12	6	0.00221	0.00001	0.08803	0.00073	0.28314	0.0002	0.28321	0.0002	<u> </u>
SINA-04-Z	SINA-04-4	24.12	300	0.0027	0.00001	0.09310	0.000.0	0.28310	0.00003	0.26318	0.00003	5. 5. 5. 4.
SINA-05 5	SINA-05-12	24.77	35.	0.00163	0.00002	0.07041	0.00036	0.28304	0.00015	0.28312	0.00015	1 7 7
SINA-05 6	SINA-05 13	24.77	35	0.00190	0.00001	0.06931	0.00077	0.28318	0.00012	0.28327	0.00012	17.2
SINA-05 10	SINA-05 2	24.77	35	0.00231	0.00004	0.07992	0.00220	0.28315	0.00024	0.28326	0.00024	16.6
SINA-05 3	SINA-05 22	24.77	35	0.00180	0.00002	0.06438	0.00105	0.28308	0.00011	0.28316	0.00011	13.2
SINA-05_8	SINA-05_4	24.77	35	0.00186	0.00001	0.06844	0.00072	0.28309	0.00013	0.28319	0.00013	14.3
SINA-05_1	SINA-05_41	24.77	35	0.00304	0.00002	0.11689	0.00152	0.28320	0.00013	0.28328	0.00013	17.4
SING-02_1	SING-02_1	14.64	90	0.00108	0.00000	0.03225	0.00037	0.28309	0.00004	0.28316	0.00004	13.1
SING-02_6	SING-02_11	14.64	90	0.00159	0.00004	0.04934	0.00152	0.28314	0.00006	0.28319	0.00006	14.3
SING-02_7	SING-02_12	14.64	35	0.00157	0.00001	0.05471	0.00027	0.28314	0.00015	0.28320	0.00015	14.7
SING-02_8	SING-02_18	14.64	35	0.00123	0.00003	0.04461	0.00154	0.28318	0.00015	0.28325	0.00015	16.4
SING-02_9	SING-02_19	14.64	35	0.00228	0.00002	0.07976	0.00030	0.28316	0.00017	0.28323	0.00017	15.6
SING-02_2	SING-02_2	14.64	90	0.00106	0.00001	0.03165	0.00052	0.28312	0.00006	0.28318	0.00006	13.8
SING-02_10	SING-02_27	14.64	35	0.00072	0.00001	0.02412	0.00040	0.28313	0.00016	0.28319	0.00016	14.4
SING-02_11	SING-02_28	14.64	20	0.00091	0.00001	0.02838	99000.0	0.28315	0.00006	0.28321	0.00006	15.1
SING-02_3	SING-02_5	14.64	35	0.00100	0.00002	0.02399	0.00058	0.28306	0.00014	0.28313	0.00014	12.0
SING-02_4	SING-02_8	14.64	20	0.00080	0.00001	0.02330	0.00050	0.28313	0.00006	0.28318	0.00006	14.0
SING-02_5	SING-02_9	14.64	35	0.00082	0.00001	0.02611	0.00050	0.28316	0.00012	0.28322	0.00012	15.5
TR-02_1	TR-02_1	14.8	20	0.00064	0.00000	0.01921	0.00019	0.28303	0.00005	0.28311	0.00005	11.5
TR-02_10	TR-02_10	14.8	35	0.00114	0.00003	0.03584	0.00120	0.28314	0.00010	0.28325	0.00010	16.4
TR-02_11	TR-02_11	14.8	90	0.00072	0.00001	0.02166	0.00041	0.28315	0.00006	0.28325	0.00006	16.6
TR-02_12	TR-02_14	8.4	35	0.00209	0.00003	0.06754	0.00159	0.28317	0.00012	0.28328	0.00012	17.4
1 - 00 GT	1 - 00 FT		C .	0.00230	0.00004	0.07 7.37	960000	0.20312	0.00013	0.20323	0.00013	5 4
TP-02_14	TP-02_10	ο. 4. 6. α. Δ. α. α. α. α. α. α. α. α. α. α. α. α. α.	35 35 35 35 35 35 35 35 35 35 35 35 35 3	0.00103	0.0000	0.03069	0.00030	0.28309	0.0000	0.28324	0.0000	10.1
TP-02-13	TP-02-11	ο α 7	0 6	0.00030	0.00001	0.03496	0.00024	0.28321	0.00003	0.20319	0.00003	<u>ξ</u>
TR-02_2	TR-02_2	6. 4	33.03	0.00102	0.0000	0.03430	0.0001	0.28323	0.00012	0.2033	0.00012	. <u>6</u>
TR-02 6	TR-02 5	14.8	35	0.00104	0.00001	0.03246	0.00043	0.28313	0.00012	0.28324	0.00012	16.0
TR-02_9	TR-02_8	14.8	35	0.00106	0.00001	0.03169	0.00019	0.28312	0.00013	0.28323	0.00013	15.7
UG012184_1	UG012184_1	4.5	35	0.00192	0.00003	0.05865	0.00133	0.28313	0.00006	0.28321	0.00006	14.9
UG012184_4	UG012184_10	4.5	35	0.00347	0.00001	0.08973	0.00051	0.28311	0.00016	0.28319	0.00016	14.3
UG012184_5	UG012184_11	4.5	35	0.00090	0.00001	0.02405	0.00012	0.28290	0.00012	0.28299	0.00012	7.1
UG012184_7	UG012184_13	4.5	35	0.00191	0.00003	0.04672	0.00068	0.28309	0.00025	0.28317	0.00025	13.6
UG012184_8	UG012184_14	4.5	35	0.00109	0.00002	0.03374	0.00089	0.28310	0.00005	0.28318	0.00005	14.1
UG012184_9	UG012184_15	4.5	35	0.00222	0.00002	0.05910	0.00032	0.28306	0.00006	0.28315	0.00006	12.7
UG012184_10	UG012184_16	4.5	35	0.00226	0.00009	0.06030	0.00229	0.28303	0.00016	0.28311	0.00016	11.6

Appendix D: Eastern Sunda arc zircon Lu-Hf data

OUDSTYPERALY         4.4         5.0         CORONINA         CORRINA	Hf_analysis	Zircon_analysis	Age (Ma)	Spot_size (um)	Lu176/Hf177	2SE	Yb176/Hf177	2SE	Hf176/Hf177	2SE	StdCorr Hf176/Hf177	2SE	EHf (CHUR)
OCOPYINE, 2         45         55         ORDS		UG012184_17	4.5	35	0.00159	0.00002	0.05099	99000.0	0.28309	0.00005	0.28317	0.00005	13.7
OLODIENES, 23         4.5         SS         OLODIEN         CASEAN		UG012184_2	4.5	35	0.00091	0.00004	0.02814	0.00125	0.28312	0.00006	0.28321	0.00006	14.9
OUDDITION 1, 2, 2, 4, 5         4, 5         5         GARDONS         CARREST	~	UG012184_20	4.5	35	0.00126	0.00001	0.03862	0.00042	0.28311	0.00007	0.28319	0.00007	14.3
CONTYPIERS         4.4         3.5         CONDORS         CON	_	UG012184_22	4.5	35	0.00058	0.00000	0.01532	0.00007	0.28308	0.00007	0.28316	0.00007	13.3
OLDSTERE, 1.4.4         4.4.5         5.0         CORDIDATE OLIVORAL CORDARIA C		UG012184_23	4.5	35	0.00045	0.00001	0.01365	0.00035	0.28310	0.00005	0.28318	0.00005	14.0
OUTORIZE 5, 1         4,34         55         OUTORIZE		UG012184_9	4.5	35	0.00038	0.00000	0.00844	0.00016	0.28293	0.00016	0.28301	0.00016	6.7
OCORDINARIO SA 144         SS         OCORDIS		UG012185_14	4.34	35	0.00132	0.00001	0.04847	0.00072	0.28312	0.00014	0.28320	0.00014	14.7
OCIDITIES 3.3.         4.34         5.5         OUDITIE         OLONISA         0.00043         0.00044 <t< td=""><td></td><td>UG012185_24</td><td>4.34</td><td>35</td><td>0.00085</td><td>0.00000</td><td>0.03098</td><td>0.00018</td><td>0.28316</td><td>0.00016</td><td>0.28324</td><td>0.00016</td><td>16.2</td></t<>		UG012185_24	4.34	35	0.00085	0.00000	0.03098	0.00018	0.28316	0.00016	0.28324	0.00016	16.2
OFFICIATION 2.2. 4.5.4.         5.0.         CORDER		UG012185_25	4.34	35	0.00112	0.00000	0.04153	0.00026	0.28319	0.00014	0.28328	0.00014	17.4
CHORTERS 3         4.54         5.0         CHORDER 3         CLORDER 4         CHORDER 5         CHORDER		UG012185_26	4.34	20	0.00154	0.00001	0.05367	0.00018	0.28312	0.00006	0.28323	0.00006	15.9
OFFICIATION 1.         4.44         3.5         CORDINAT         CORREST         <		UG012185_3	4.34	20	0.00087	0.00001	0.02994	0.00038	0.28312	0.00006	0.28323	0.00006	15.6
OCIDATION 1.1.1         4.44         5.5         OLOMORY         <		UG012185_6	4.34	35	0.00135	0.00001	0.05161	0.00027	0.28312	0.00015	0.28319	0.00015	14.4
CODITY 190, 11         4.48         5.5         CODITY 10         CODERARY         CORRADA		UG012185_7	4.34	35	0.00209	0.00002	0.07903	0.00049	0.28311	0.00015	0.28319	0.00015	14.4
OCONTINO 14 44         444         55         OCONDIO         OCONDIA         CONDIA         COND		UG012190_11	4.48	35	0.00117	0.00002	0.03837	0.00039	0.28307	0.00004	0.28315	0.00004	12.8
CODITION 1.1.         4.44         3.5         CODOTION COLORIDAD         CORDERADO		UG012190_14	4.48	35	0.00100	0.00001	0.02643	0.00039	0.28304	0.00005	0.28312	0.00005	11.9
CONTINETION 1.0         4.44         3.5         CONTINED 1.0         <		UG012190_15	4.48	35	0.00054	0.00000	0.01650	0.00027	0.28308	0.00005	0.28316	0.00005	13.3
CONTINED 17         444         35         CONORDS         COMORDS         CORREST         COR		UG012190_16	4.48	35	0.00110	0.00001	0.03509	0.00055	0.28316	0.00005	0.28324	0.00005	16.1
CHORDITER 13         4.88         3.5         CHORDOR		UG012190_17	4.48	35	0.00093	0.00001	0.02910	0.00021	0.28310	0.00005	0.28318	0.00005	14.0
UG012190 23         4.88         3.5         OD0728         OD00729         OD	UG012190_6	UG012190_19	4.48	35	0.00072	0.00000	0.01789	0.00016	0.28308	0.00006	0.28316	0.00006	13.4
UGDITISHIQ 25         4.44         35         0.00066         0.00071         0.00359         0.00066         0.00050	UG012190_7	UG012190_23	4.48	35	0.00128	0.00004	0.04255	0.00097	0.28310	0.00005	0.28318	0.00005	13.9
UGDT1910, 27         446         35         G000196         C000091         C000092         C000093         C000093         C000093         C000094         C0	UG012190_8	UG012190_25	4.48	35	0.00098	0.00003	0.03230	0.00112	0.28309	0.00005	0.28317	0.00005	13.6
UG071510, 23         446         35         000091         0.00014         0.00036         0.28871         0.00005         0.28871         0.00005         0.28871         0.00005         0.28871         0.00005         0.28871         0.00005         0.28871         0.00006         0.00005         0.0	JG012190_9	UG012190_27	4.48	35	0.00186	0.00001	0.05312	0.00063	0.28314	0.00009	0.28322	0.00009	15.5
UG012191         3.4         3.5         ORODOR	0	UG012190_28	4.48	35	0.00091	0.00001	0.03014	0.00038	0.28310	0.00005	0.28318	0.00005	13.9
UGDITISTIQ 31         448         35         0.00054         0.00001         0.00045         0.00045         0.00004         0.00045         0.00045         0.00045         0.00004         0.00045         0.00045         0.00045         0.00045         0.00045         0.00044         0.00045         0	UG012190_11	UG012190_30	4.48	35	0.00067	0.00001	0.02100	0.00016	0.28307	0.00005	0.28315	0.00005	13.0
UGOT2191 10         594         35         0.000296         0.000049         0.0	0	UG012190_31	4.48	35	0.00064	0.00000	0.02007	0.00010	0.28308	0.00005	0.28316	0.00005	13.3
UGOT219111         594         35         0.00043         0.000034         0.000		UG012191_10	5.94	35	0.00296	0.00001	0.10564	0.00145	0.28315	0.00019	0.28325	0.00019	16.4
UGD012191 1.18         5.94         3.5         0.002218         0.00022         0.28241         0.00023         0.00024         <		UG012191_17	5.94	35	0.00143	0.00001	0.03731	0.00043	0.28303	0.00023	0.28313	0.00023	12.1
UGD12191_27         594         35         0.00024         0.00024         0.00024         0.00024         0.00024         0.00024         0.00024         0.00024         0.00024         0.00024         0.00024         0.00013         0.00014         0.0		UG012191_18	5.94	35	0.00218	0.0000	0.07887	0.00345	0.28316	0.00012	0.28325	0.00012	16.6
UG012191_21         594         35         0.00024         0.000024         0.00002         0.00043         0.00003         0.00013         0.00013         0.00013           UG012191_26         5.94         35         0.00044         0.00004         0.00043         0.00043         0.00014         0.00004         0.00014         0.00014         0.00004         0.00004         0.00014         0.00014         0.00004         0.00004         0.00014         0.00004		UG012191_20	5.94	35	0.00349	0.00002	0.11876	0.00213	0.28331	0.00023	0.28342	0.00023	22.4
UG012191_26         5.94         35         0.00029         0.00004         0.08624         0.00179         0.28831         0.00014         0.08813         0.00014         0.08814         0.00014         0.08814         0.00014         0.08814         0.00014         0.08917         0.00014         0.08917         0.00014         0.00014         0.00014         0.00014         0.00014         0.00014         0.00014         0.00014         0.00014         0.00014         0.00014         0.00014         0.00014         0.00014         0.00004         0.00034         0.00014         0.00014         0.00004         0.00034         0.00004         0.00014         0.00004         0.00034         0.00004         0.00014         0.00004         0.00034         0.00004         0.00034         0.00004         0.00004         0.00034         0.00004         0.00034         0.00004         0.00034         0.00004         0.00004         0.00034         0.00004         0.00004         0.00034         0.00004         0.00034         0.00004         0.00034         0.00004         0.00034         0.00004         0.00034         0.00004         0.00034         0.00034         0.00004         0.00034         0.00034         0.00004         0.00034         0.00034         0.00034         0.		UG012191_21	5.94	35	0.00224	0.00002	0.07427	0.00082	0.28309	0.00013	0.28320	0.00013	14.8
UG012191_27         594         35         0.00044         0.00040         0.00047         0.28307         0.00014         0.28317         0.00014           UG012191_29         594         35         0.00101         0.00001         0.00024         0.28319         0.00001         0.28319         0.00001         0.28319         0.00011         0.28319         0.00002         0.28319         0.00002         0.28319         0.00001         0.28319         0.00002         0.28319	_	UG012191_26	5.94	35	0.00209	0.00004	0.06824	0.00179	0.28313	0.00013	0.28321	0.00013	14.9
UG012191_33         594         35         001011         0.00001         0.00024         0.28319         0.00001         0.28329         0.00001           UG012191_33         5.94         50         0.00118         0.00001         0.03823         0.00004         0.28313         0.00007         0.28319         0.00009         0.00009         0.00009         0.28319         0.00009         0.28319         0.00009         0.28319         0.00009         0.28319         0.00009         0.00009         0.00009         0.00009         0.00009         0.00009         0.00009         0.00009         0.00009	0	UG012191_27	5.94	35	0.00145	0.00000	0.04935	0.00047	0.28307	0.00014	0.28317	0.00014	13.5
UG012191_33         594         50         00018         000001         0.00024         0.28313         0.00000         0.28319         0.00000         0.28319         0.00000         0.28319         0.00000         0.28319         0.00000         0.02314         0.00000         0.28319         0.00000         0.00000         0.02311         0.00000         0.00000         0.02311         0.00000         0.02319         0.00000         0.02319         0.00000         0.02319         0.00000         0.02319         0.00000         0.02319         0.00000         0.02319         0.00000         0.02319         0.00000         0.02319         0.00000         0.00000         0.00000         0.00000         0.02319         0.00000         0.02319         0.00000         0.02319         0.00000         0.0000	က	UG012191_29	5.94	35	0.00101	0.00001	0.03093	0.00062	0.28319	0.00011	0.28326	0.00011	16.8
UG012195_12         4.53         3.5         0.00048         0.000709         0.28311         0.00006         0.28319         0.00006           UG012195_14         4.53         3.5         0.00086         0.00035         0.28316         0.00006         0.28315         0.00006           UG012195_14         4.53         3.5         0.00048         0.00002         0.02820         0.00032         0.28308         0.00007         0.28316         0.00006         0.28316         0.00006           UG012195_24         4.53         3.5         0.00073         0.00071         0.0022         0.00077         0.28318         0.00007         0.28316         0.00006         0.28318         0.00007           UG012195_24         4.53         3.5         0.00073         0.00073         0.0027         0.00074         0.28317         0.00006         0.28318         0.00007           UG012195_24         4.53         3.5         0.00073         0.00074         0.00074         0.00074         0.00074         0.00074         0.00074         0.00076         0.00076         0.00074         0.00074         0.00076         0.00074         0.00074         0.00076         0.00076         0.00074         0.00074         0.00076         0.00076         <	2	UG012191_33	5.94	20	0.00118	0.00001	0.03823	0.00024	0.28313	0.00007	0.28319	0.00007	14.4
UG012195_14         4.53         3.5         0,00065         0,00073         0,00035         0,00035         0,28315         0,00006         0,28322         0,00006           UG012195_17         4.53         3.5         0,00074         0,00022         0,00037         0,28316         0,00007         0,28316         0,00007         0,28316         0,00007         0,28316         0,00007         0,28316         0,00007         0,28316         0,00007         0,28316         0,00007         0,28316         0,00007         0,28316         0,00007         0,28316         0,00007         0,28316         0,00007         0,28316         0,00007         0,28316         0,00007         0,28316         0,00007         0,28316         0,00007         0,28317         0,00007         0,28316         0,00007         0,28317         0,00007         0,28317         0,00007         0,28317         0,00007         0,28317         0,00007         0,28317         0,00007         0,28317         0,00007         0,28317         0,00007         0,28318         0,00007         0,28317         0,00007         0,28318         0,00007         0,28318         0,00007         0,28317         0,00007         0,28318         0,00007         0,28318         0,00007         0,28318         0,00007 <td>JG012195_6</td> <td>UG012195_12</td> <td>4.53</td> <td>35</td> <td>0.00148</td> <td>0.00001</td> <td>0.04797</td> <td>0.0000</td> <td>0.28311</td> <td>0.00006</td> <td>0.28319</td> <td>0.00006</td> <td>14.2</td>	JG012195_6	UG012195_12	4.53	35	0.00148	0.00001	0.04797	0.0000	0.28311	0.00006	0.28319	0.00006	14.2
UG012186_17         4.53         3.5         0.00018         0.00002         0.02831         0.00018         0.00018         0.00018           UG012186_19         4.53         3.5         0.00091         0.00001         0.0002         0.02831         0.00007         0.00007           UG012186_24         4.53         3.5         0.00001         0.0002         0.0281         0.00007         0.00002         0.0281         0.00007         0.00002         0.0281         0.00007         0.00002         0.0281         0.00007         0.00002         0.0281         0.00007         0.00002         0.0281         0.00007         0.00002         0.0281         0.00007         0.00002         0.0281         0.00007         0.00002         0.0281         0.00007         0.00002         0.0281         0.00007         0.00002         0.0281         0.00004         0.28817         0.00006         0.28828         0.00006           UG012186_4         4.53         3.5         0.00012         0.00004         0.02822         0.00006         0.28836         0.00006         0.0006           UG012186_4         4.53         3.5         0.00012         0.00004         0.0006         0.02822         0.00006         0.28830         0.00006 <t< td=""><td>UG012195_7</td><td>UG012195_14</td><td>4.53</td><td>35</td><td>0.00085</td><td>0.00000</td><td>0.02778</td><td>0.00035</td><td>0.28315</td><td>0.00006</td><td>0.28322</td><td>0.00006</td><td>15.5</td></t<>	UG012195_7	UG012195_14	4.53	35	0.00085	0.00000	0.02778	0.00035	0.28315	0.00006	0.28322	0.00006	15.5
UG017196_19         4.53         3.5         0,00001         0,00002         0	JG012195_8	UG012195_17	4.53	35	0.00178	0.00002	0.04288	0.00035	0.28318	0.00018	0.28326	0.00018	16.8
UG017185_24         4.53         3.5         0,00077         0,00077         0,00027         0,00027         0,00027         0,00027         0,00027         0,00078         0,00079         0,00007         0	UG012195_9	UG012195_19	4.53	35	0.00091	0.00001	0.02820	0.00052	0.28308	0.00007	0.28315	0.00007	13.1
UG012196_26         4.53         3.5         0.00070         0.00022         0.02261         0.00087         0.28317         0.00005         0.28318         0.00005           UG012196_26         4.53         3.5         0.00013         0.00013         0.00034         0.28310         0.00006         0.28318         0.00006           UG012196_4         4.53         3.5         0.00012         0.00002         0.00034         0.28282         0.00006         0.28290         0.00006           UG012196_6         4.53         3.5         0.00013         0.00002         0.00064         0.28282         0.00067         0.28290         0.00067           UG012196_6         4.53         3.5         0.00013         0.00004         0.00064         0.28282         0.00067         0.28290         0.00067           UG012196_1         4.53         3.5         0.00043         0.00004         0.00067         0.28313         0.00067         0.28282         0.00067         0.28290         0.00067         0.28320         0.00067         0.00067         0.00067         0.00067         0.00067         0.00067         0.00067         0.00067         0.00067         0.00067         0.00067         0.00067         0.00067         0.00067	UG012195_10	UG012195_24	4.53	35	0.00073	0.00001	0.01739	0.00027	0.28311	0.00007	0.28319	0.00007	14.2
UG012196_26         453         35         0,00227         0,00013         0,0034         0,0034         0,00006         0,28316         0,00006         0,28316         0,00006           UG012196_3         4.53         35         0,00102         0,00004         0,00034         0,28292         0,00016         0,28396         0,00016           UG012196_4         4.53         35         0,00072         0,00004         0,28292         0,00067         0,28290         0,00067           UG012196_6         4.53         35         0,00043         0,00004         0,00067         0,28313         0,00067         0,28320         0,00067           UG012186_1         4.53         35         0,00043         0,00041         0,00041         0,00041         0,00041         0,28313         0,00067         0,28320         0,00067           UG012186_1         4.53         35         0,00043         0,00041         0,00041         0,28316         0,00069         0,28320         0,00066         0,28320         0,00066         0,28320         0,00066         0,28320         0,00066         0,00066         0,28316         0,00066         0,28320         0,00066         0,00066         0,28316         0,00066         0,00066         0,00067 <td>UG012195_11</td> <td>UG012195_26</td> <td>4.53</td> <td>35</td> <td>0.00070</td> <td>0.00002</td> <td>0.02261</td> <td>0.00087</td> <td>0.28317</td> <td>0.00005</td> <td>0.28325</td> <td>0.00005</td> <td>16.4</td>	UG012195_11	UG012195_26	4.53	35	0.00070	0.00002	0.02261	0.00087	0.28317	0.00005	0.28325	0.00005	16.4
UG012195_3         4.53         3.5         0.00102         0.00239         0.00034         0.28297         0.00016         0.28305         0.00016           UG012195_4         4.53         3.5         0.00078         0.00003         0.00024         0.28282         0.00007         0.00004           UG012195_6         4.53         3.5         0.00013         0.00004         0.0021         0.02813         0.00005         0.28320         0.00005           UG012195_6         4.53         3.5         0.0001         0.10360         0.0021         0.0213         0.0001         0.01380         0.0001         0.28316         0.0006         0.28320         0.00005           UG012196_1         6.12         3.5         0.00010         0.0034         0.0001         0.0216         0.0001         0.0216         0.0001         0.0216         0.0001         0.0216         0.0001         0.28316         0.00016         0.28324         0.00016           UG012196_1         6.12         3.5         0.00017         0.00021         0.28316         0.00016         0.28322         0.00006         0.28324         0.00006           UG012196_1         6.12         3.5         0.00017         0.00002         0.28316         0.00	2	UG012195_26	4.53	35	0.00227	0.00013	0.08305	0.00511	0.28310	0.00006	0.28318	0.00006	14.0
UG012195_4         4.53         35         0.00078         0.00001         0.00239         0.00024         0.28282         0.00002         0.00020           UG012195_5         4.53         35         0.00135         0.00012         0.00055         0.28282         0.00067         0.28290         0.00067           UG012195_6         4.53         35         0.00013         0.00014         0.0021         0.00017         0.00017         0.00017         0.00017         0.00017         0.00017         0.00017         0.00017         0.00017         0.00017         0.00017         0.00041         0.28316         0.00019         0.00019           UG012196_11         6.12         35         0.00017         0.00001         0.00044         0.28316         0.00009         0.28320         0.00009           UG012196_11         6.12         35         0.00017         0.00009         0.01331         0.00007         0.00009         0.13810         0.00007         0.00009           UG012186_14         6.12         35         0.00002         0.01329         0.00044         0.28319         0.00007         0.00002         0.00003         0.00002         0.00002         0.00002         0.00002         0.00000         0.00002         0.0000		UG012195_3	4.53	35	0.00102	0.00002	0.02793	0.00034	0.28297	0.00016	0.28305	0.00016	6.9
UG012195_6         4.53         35         0.00135         0.00043         0.00056         0.28282         0.00067         0.28290         0.00067           UG012195_6         4.53         35         0.00043         0.00001         0.01860         0.00021         0.2813         0.00005         0.28320         0.00005           UG012195_1         4.53         35         0.00210         0.00041         0.00241         0.28316         0.00006         0.28324         0.00016           UG012196_11         6.12         35         0.00176         0.00001         0.06405         0.00041         0.28315         0.00009         0.28320         0.00009           UG012196_14         6.12         35         0.00176         0.00002         0.05331         0.00044         0.28319         0.00007         0.00009         0.18320         0.00009         0.00003         0.00002         0.00003         0.00003         0.00003         0.00003         0.00003         0.00003         0.00003         0.00003         0.00003         0.00003         0.00003         0.00003         0.00003         0.00003         0.00003         0.00003         0.00003         0.00003         0.00003         0.000003         0.00003         0.00003         0.00003		UG012195_4	4.53	35	0.00078	0.00001	0.02039	0.00024	0.28282	0.00020	0.28290	0.00020	4.1
UG012195_6         4.53         3.5         0.00043         0.00001         0.00021         0.28313         0.00006         0.28320         0.00005           UG012195_9         4.53         3.5         0.00210         0.00008         0.0544         0.00215         0.28316         0.00016         0.28324         0.00016           UG012199_1         6.12         3.5         0.00250         0.00001         0.0044         0.0041         0.28315         0.00009         0.28322         0.00009           UG012199_11         6.12         3.5         0.00176         0.00009         0.00136         0.00136         0.00136         0.00136         0.00136         0.00034         0.00032         0.00003         0.00023         0.00003           UG012189_17         6.12         3.5         0.00138         0.00006         0.13762         0.00047         0.02839         0.00002         0.00023         0.00003         0.00023         0.00003         0.00003		UG012195_5	4.53	35	0.00135	0.00002	0.03769	0.00065	0.28282	0.00067	0.28290	0.00067	4.0
4.53         3.5         0.00210         0.00008         0.0534         0.00215         0.28316         0.00016         0.28322         0.00016           6.12         3.5         0.00250         0.00001         0.06405         0.00041         0.28315         0.00009         0.28322         0.00009           6.12         3.5         0.00176         0.00002         0.05393         0.00044         0.28313         0.00007         0.28320         0.00007           6.12         3.5         0.001521         0.00006         0.1372         0.00047         0.28309         0.00008         0.28316         0.00008           6.12         3.5         0.00138         0.00000         0.03218         0.00047         0.28309         0.00008         0.28316         0.00008		UG012195_6	4.53	35	0.00043	0.00001	0.01360	0.00021	0.28313	0.00005	0.28320	0.00005	14.8
UG012198_1         6.12         35         0.00250         0.00001         0.06405         0.00041         0.28315         0.00009         0.28322         0.00009           UG012198_11         6.12         35         0.00176         0.00002         0.05333         0.00044         0.28313         0.00007         0.28920         0.00007         0.00007           UG012198_16         6.12         35         0.00138         0.00006         0.13762         0.00013         0.00004         0.28390         0.00002         0.28390         0.00003         0.00023           UG012189_17         6.12         35         0.00138         0.00006         0.00371         0.00047         0.28399         0.00008         0.28316         0.00008		UG012195_9	4.53	35	0.00210	0.00008	0.05344	0.00215	0.28316	0.00016	0.28324	0.00016	16.2
UG012198_11         6:12         35         0.00016         0.00002         0.05393         0.00044         0.28313         0.00007         0.28320         0.00007           UG012199_16         6:12         35         0.00521         0.00006         0.13762         0.00135         0.28300         0.00023         0.28307         0.00023           UG012198_17         6:12         35         0.00138         0.00000         0.03218         0.00047         0.28399         0.00008         0.28316         0.00008		UG012198_1	6.12	35	0.00250	0.00001	0.06405	0.00041	0.28315	0.00009	0.28322	0.00009	15.4
UG012198_16 6.12 35 0.00521 0.00006 0.13762 0.00135 0.28300 0.00023 0.28307 0.00023 UG012198 17 6.12 35 0.00138 0.00000 0.03218 0.00047 0.28309 0.00008 0.28316 0.00008		UG012198_11	6.12	35	0.00176	0.00002	0.05393	0.00044	0.28313	0.00007	0.28320	0.00007	14.8
UG012198 17 6.12 35 0.00138 0.00000 0.03218 0.00047 0.28399 0.00008 0.28316 0.00008		UG012198 16	6.12	35	0.00521	0.00006	0.13762	0.00135	0.28300	0.00023	0.28307	0.00023	10.0
		UG012198 17	6.12	35	0.00138	0.00000	0.03218	0.00047	0.28309	0.00008	0.28316	0.00008	13.2

Appendix D: Eastern Sunda arc zircon Lu-Hf data

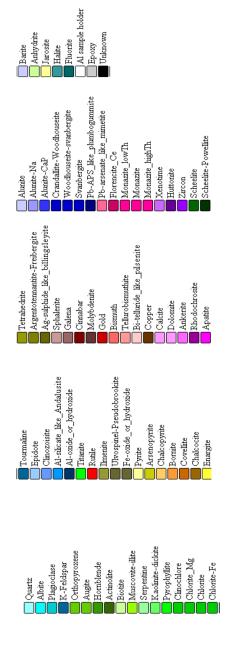
Hf analysis	Zircon analysis	Age (Ma)	Spot size (um)	Lu176/Hf177	2SE	Yb176/Hf177	2SE	Hf176/Hf177	2SE	StdCorr Hf176/Hf177	2SE	EHF (CHUR)
LB024 13	LB024 22	7.06	35	0.00124	0.00000	0.03709	0.00040	0.28320	0.00015	0.28327	0.00015	17.3
LB024_14	LB024_23	7.06	35	0.00109	0.00003	0.03238	0.00108	0.28324	0.00013	0.28331	0.00013	18.7
LB024_17	LB024_24	7.06	35	0.00060	0.00000	0.01731	0.00016	0.28316	0.00011	0.28324	0.00011	16.1
LB024_16	LB024_25	2.06	35	0.00737	0.00019	0.22079	0.00654	0.28331	0.00015	0.28339	0.00015	21.2
LB024_15	LB024_26	7.06	35	0.00142	0.00001	0.04320	0.00049	0.28321	0.00013	0.28329	0.00013	17.7
LB024_18	LB024_27	2.06	35	0.00119	0.00001	0.03606	0.00013	0.28321	0.00012	0.28329	0.00012	17.7
LB024_19	LB024_28	7.06	35	0.00059	0.00001	0.01640	0.00018	0.28309	0.00016	0.28317	0.00016	13.5
LB024_20	LB024_29	7.06	35	0.00131	0.00001	0.03819	0.00021	0.28319	0.00013	0.28327	0.00013	17.1
LB024_21	LB024_35	7.06	35	0.00226	0.00002	0.06909	0.00028	0.28329	0.00014	0.28337	0.00014	20.6
LB024_22	LB024_36	7.06	35	0.00087	0.00000	0.02514	0.00030	0.28309	0.00012	0.28317	0.00012	13.7
LB024_23	LB024_37	7.06	35	0.00065	0.00001	0.01793	0.00054	0.28317	0.00013	0.28325	0.00013	16.3
LB024_2	LB024_4	7.06	35	0.00163	0.00004	0.05162	0.00113	0.28316	0.00014	0.28324	0.00014	16.1
LB024_3	LB024_5	7.06	35	0.00183	0.0000	0.05473	0.00033	0.28315	0.00015	0.28323	0.00015	15.8
LB024_4	LB024_8	7.06	35	0.00173	0.00002	0.04862	0.00016	0.28315	0.00011	0.28323	0.00011	15.6
LB025_1	LB025_1	8.23	35	0.00106	0.00001	0.03128	0.00040	0.28312	0.00005	0.28319	0.00005	14.3
LB025_3	LB025_14	8.23	35	0.00102	0.00001	0.03192	0.00010	0.28315	0.00004	0.28323	0.00004	15.6
LB025_4	LB025_17	8.23	35	0.00113	0.00001	0.02613	0.00036	0.28307	0.00006	0.28315	0.00006	12.8
LB025_5	LB025_29	8.23	35	0.00115	0.00002	0.03257	0.00037	0.28316	0.00005	0.28324	0.00005	16.1
LB025_6	LB025_30	8.23	35	0.00138	0.00002	0.04211	0.00066	0.28311	0.00005	0.28319	0.00005	14.3
LB025_10	LB025_39	8.23	35	0.00116	0.00002	0.03209	0.00089	0.28319	0.00005	0.28328	0.00005	17.4
LB025_11	LB025_42	8.23	35	0.00104	0.00003	0.03204	0.00073	0.28309	0.00005	0.28318	0.00005	13.9
LB026_1	LB026_1	7.99	35	0.00091	0.00001	0.02899	0.00025	0.28316	0.00012	0.28326	0.00012	16.9
LB026_3	LB026_4	7.99	20	0.00072	0.00001	0.02252	0.00015	0.28314	0.0000	0.28325	0.00009	16.3
LB026_6	LB026_9	7.99	35	0.00103	0.00000	0.03397	0.00015	0.28315	0.00013	0.28326	0.00013	16.8
LB028_4	LB028_10	7.56	35	0.00136	0.00001	0.04111	0.00024	0.28315	0.00012	0.28322	0.00012	15.4
LB028_5	LB028_13	7.56	35	0.00182	0.00003	0.06142	0.00138	0.28322	0.00012	0.28329	0.00012	17.9
LB028_6	LB028_14	7.56	35	0.00320	0.00011	0.10319	0.00361	0.28310	0.00014	0.28317	0.00014	13.7
LB028_7	LB028_24	7.56	35	0.00125	0.00002	0.03645	0.00039	0.28315	0.00011	0.28323	0.00011	15.6
LB028_8	LB028_25	7.56	35	0.00153	0.00007	0.04582	0.00187	0.28310	0.00010	0.28317	0.00010	13.8
LB028_9	LB028_26	7.56	35	0.00220	0.00001	0.06245	0.00069	0.28311	0.00010	0.28318	0.00010	14.1
LB028_10	LB028_27	7.56	35	0.00141	0.00003	0.04036	0.00092	0.28314	0.00011	0.28322	0.00011	15.4
LB028_12	LB028_30	7.56	35	0.00185	0.00018	0.05652	0.00556	0.28302	0.00010	0.28309	0.00010	10.8
LB028_13	LB028_31	7.56	35	0.00140	0.00003	0.04060	0.00078	0.28312	0.00012	0.28320	0.00012	14.6
LB028_1	LB028_6	7.56	35	0.00202	0.00003	0.06026	0.00079	0.28309	0.00012	0.28317	0.00012	13.5
LB028_2	LB028_7	7.56	35	0.00130	0.00001	0.03773	0.00019	0.28316	0.00011	0.28324	0.00011	16.0
LB028_3	LB028_8	7.56	35	0.00156	0.00001	0.04619	0.00043	0.28318	0.00011	0.28326	0.00011	16.6
LB029_1	LB029_1	7.28	20	0.00132	0.00002	0.04128	0.00110	0.28317	0.00006	0.28328	0.00006	17.4
LB029_6	LB029_11	7.28	20	0.00174	0.00000	0.05530	0.00034	0.28314	0.00008	0.28319	0.00008	14.1
LB029_7	LB029_14	7.28	35	0.00329	0.00007	0.09880	0.00094	0.28317	0.00018	0.28325	0.00018	16.5
LB029_10	LB029_15	7.28	35	0.00209	0.00001	0.07210	0.00067	0.28319	0.00016	0.28327	0.00016	17.2
LB029_9	LB029_16	7.28	35	0.00113	0.00002	0.03834	0.00065	0.28323	0.00012	0.28331	0.00012	18.4
LB029_13	LB029_22	7.28	35	0.00121	0.00000	0.03941	0.00042	0.28321	0.00014	0.28329	0.00014	17.9
LB029_14	LB029_25	7.28	35	0.00401	0.00028	0.15831	0.01246	0.28324	0.00015	0.28332	0.00015	18.8
LB029_16	LB029_26	7.28	35	0.00118	0.00001	0.03887	0.00066	0.28305	0.00011	0.28313	0.00011	12.1
LB029_17	LB029_28	7.28	35	0.00130	0.00000	0.04281	0.00028	0.28316	0.00012	0.28323	0.00012	15.9
LB029_18	LB029_30	7.28	35	0.00204	0.00011	0.07078	0.00371	0.28308	0.00012	0.28316	0.00012	13.1
LB029_19	LB029_37	7.28	90	0.00138	0.00006	0.04557	0.00229	0.28321	0.00007	0.28325	0.00007	16.3
LB029_20	LB029_38	7.28	35	0.00196	0.00002	0.06076	0.00179	0.28320	0.00014	0.28328	0.00014	17.4
LB029_3	LB029_5	7.28	35	0.00164	0.00001	0.05362	0.00057	0.28317	0.00012	0.28326	0.00012	16.7
LB029_4	LB029_7	7.28	35	0.00140	0.00003	0.04518	0.00064	0.28310	0.00012	0.28319	0.00012	14.4

Appendix D: Eastern Sunda arc zircon Lu-Hf data

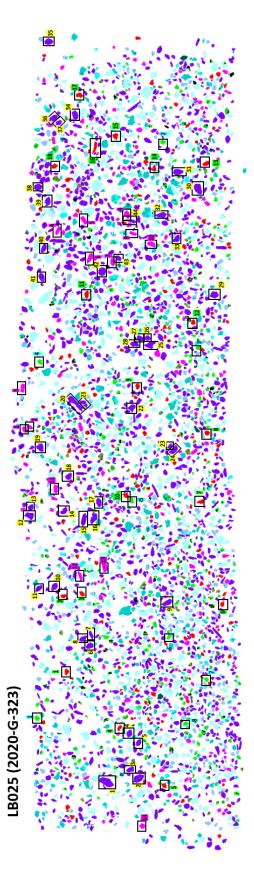
	Zircon_analysis Age (Ma)	Spot_size (um)	Lu176/Hf177	2SE	Yb176/Hf177	2SE	Hf176/Hf177	2SE	StdCorr Hf176/Hf177	2SE	EHF (CHUR)
7.28		35	0.00125	0.00002	0.04172	0.00092	0.28316	0.00012	0.28325	0.00012	16.5
7		35	0.00106	0.00002	0.03484	0.00034	0.28308	0.00010	0.28317	0.00010	13.5
7		35	0.00097	0.00001	0.02571	0.00021	0.28313	0.00010	0.28321	0.00010	14.9
7		35	0.00159	0.00001	0.05362	0.00067	0.28333	0.00014	0.28342	0.00014	22.6
7		35	0.00202	0.00009	0.07055	0.00275	0.28315	0.00014	0.28324	0.00014	16.0
7		20	0.00104	0.00000	0.03394	0.00016	0.28309	0.00008	0.28314	0.00008	12.6
7		35	0.00105	0.00005	0.03406	0.00135	0.28316	0.00012	0.28325	0.00012	16.5
6.71		35	0.00115	0.00001	0.03430	0.00012	0.28312	0.00005	0.28319	0.00005	14.4
6.71		35	0.00092	0.00001	0.02870	0.00017	0.28312	0.00005	0.28319	0.00005	14.3
6.71		35	0.00129	0.00001	0.03468	0.00051	0.28311	0.00007	0.28318	0.00007	14.0
6.71		35	0.00102	0.00001	0.02802	0.00040	0.28314	0.00006	0.28321	0.00006	14.9
6.71		35	0.00139	0.00005	0.04401	0.00175	0.28318	0.00005	0.28325	0.00005	16.3
6.71		35	0.00208	0.00002	0.06167	0.00120	0.28313	0.00006	0.28319	0.00006	14.3
7.2		35	0.00089	0.00001	0.02315	0.00037	0.28315	0.00023	0.28319	0.00023	14.3
7.2		35	0.00185	0.00003	0.04863	0.00089	0.28316	0.00007	0.28320	0.00007	14.6
7.2		35	0.00150	0.00002	0.04291	0.00017	0.28309	0.00006	0.28313	0.00006	12.1
7.2		35	0.00137	0.00001	0.04150	0.00035	0.28315	0.00008	0.28318	0.00008	14.1
7.2		35	0.00128	0.00002	0.03440	0.00126	0.28317	0.00007	0.28320	0.00007	14.7
7.2		35	0.00178	0.00008	0.04833	0.00278	0.28316	0.0000	0.28319	0.00009	14.4
7.2		35	0.00160	0.00000	0.03909	0.00058	0.28314	0.0000	0.28318	0.00009	13.8

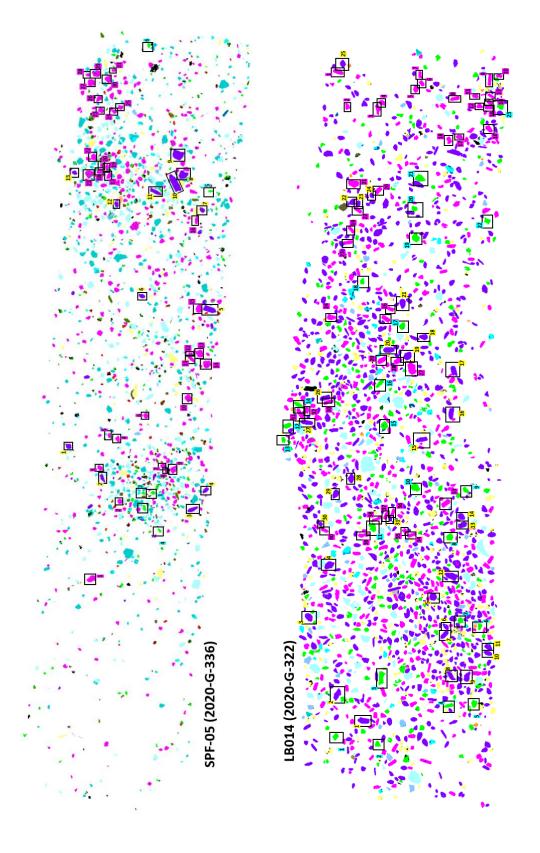
## **Appendix E: AMICS Maps**

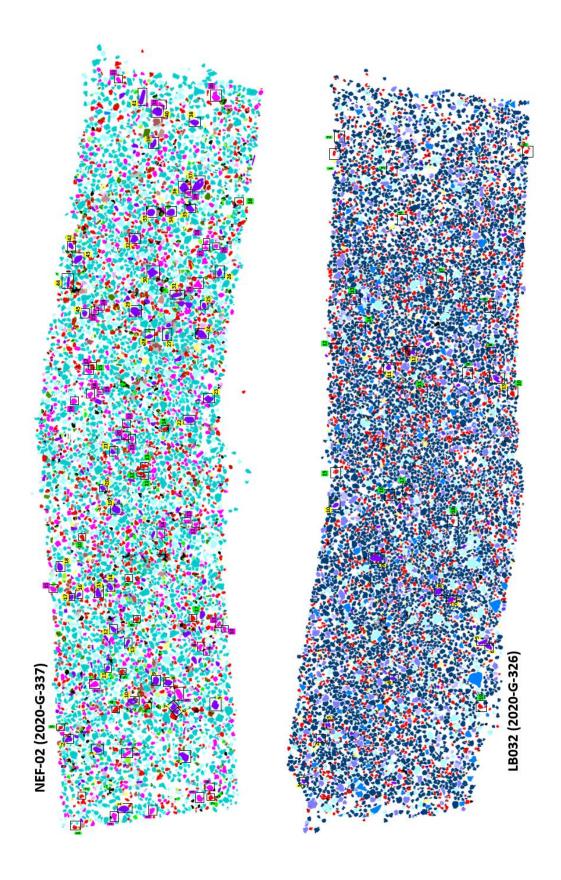
## Legend:

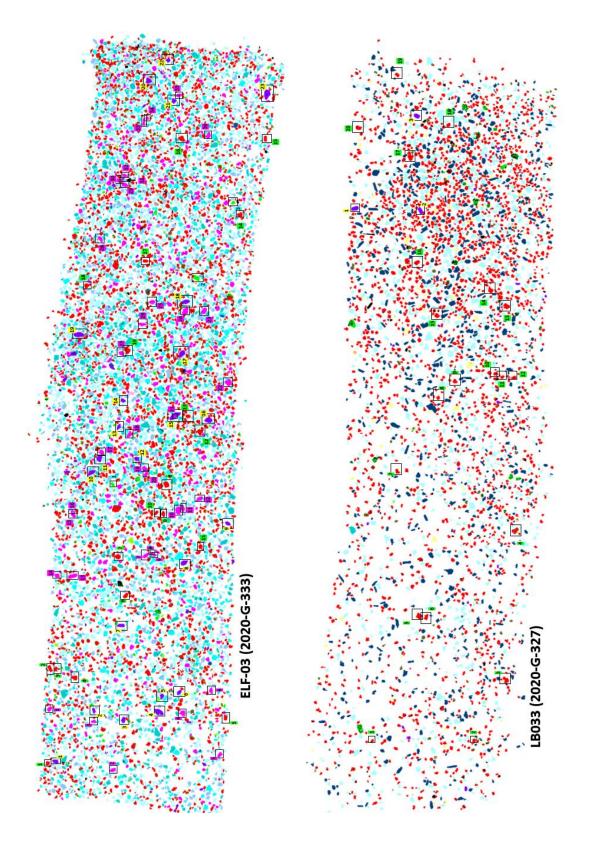


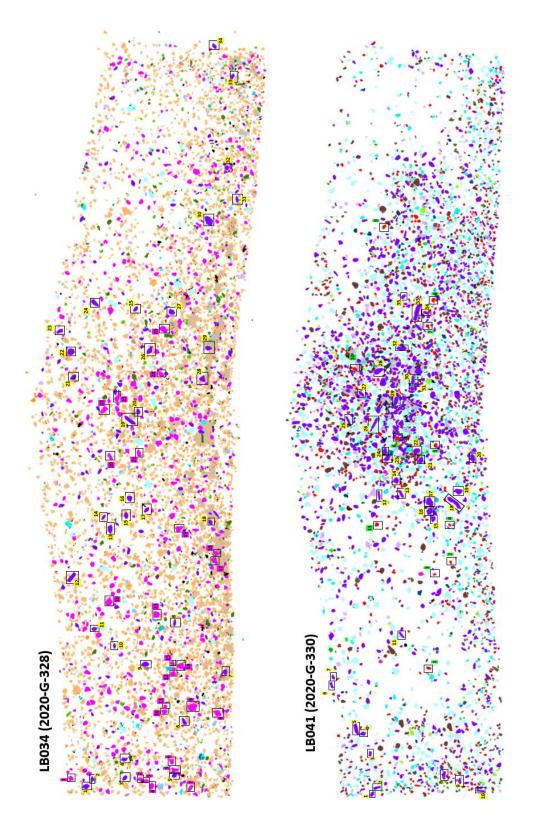
AMICS maps are approximately 10mm in length. Yellow labels correspond to zircon grains, green to rutile, pink to apatite, and blue to titanite grains analyzed.

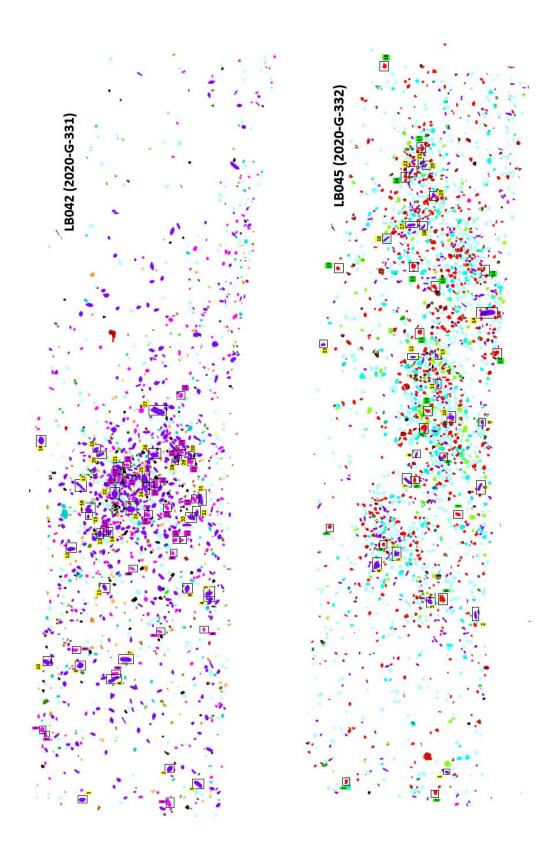


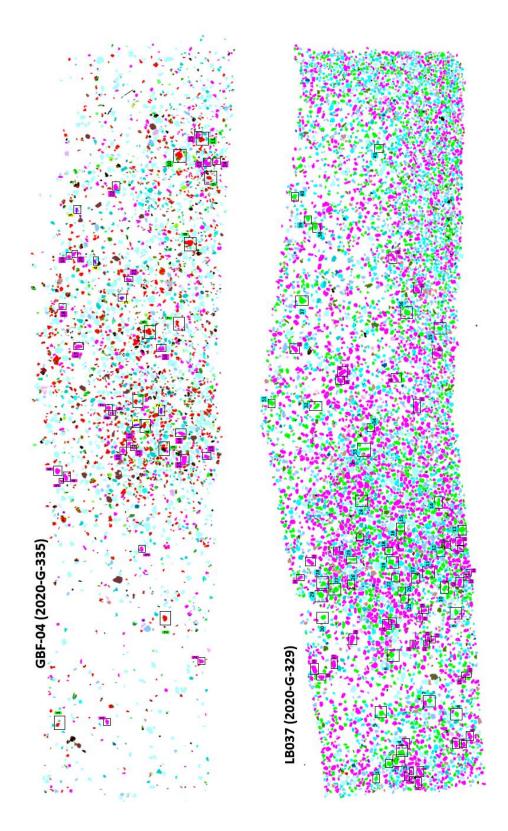


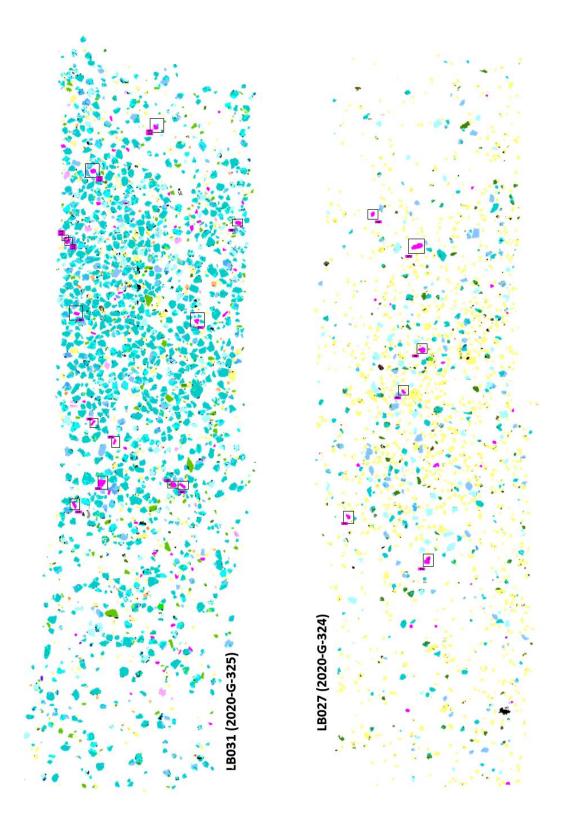


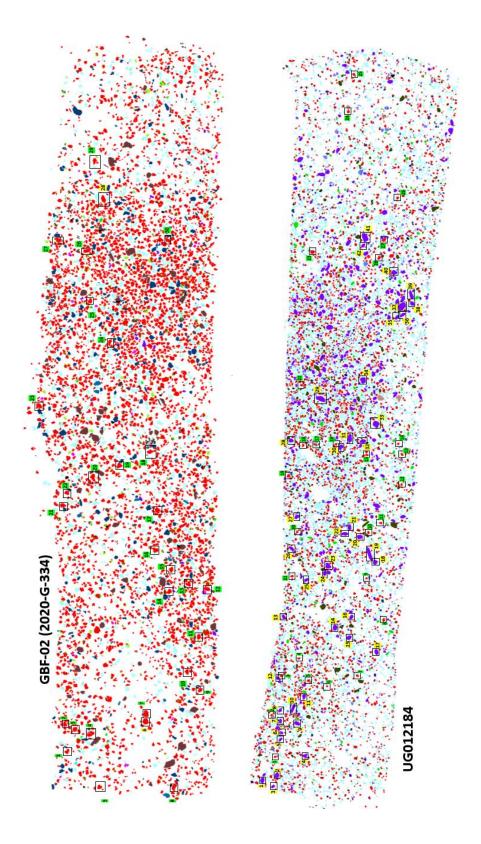


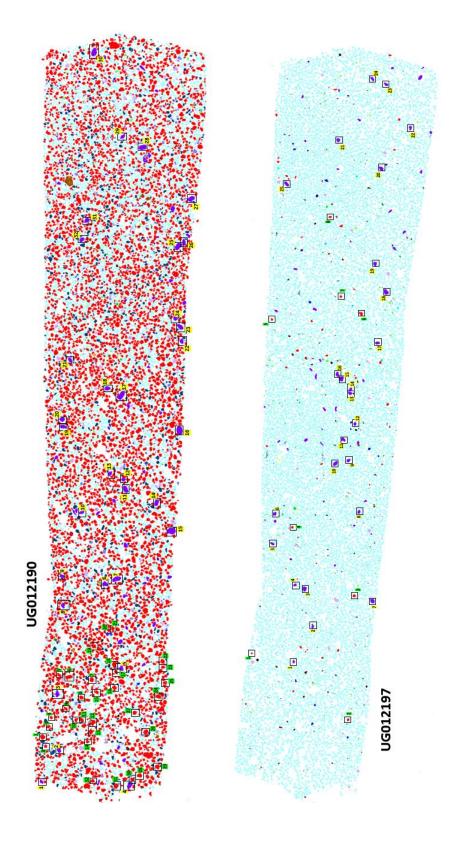


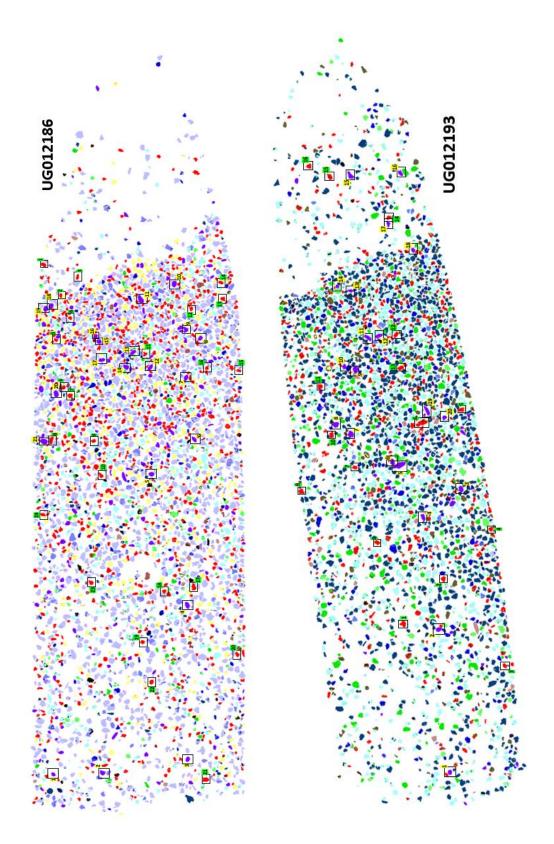


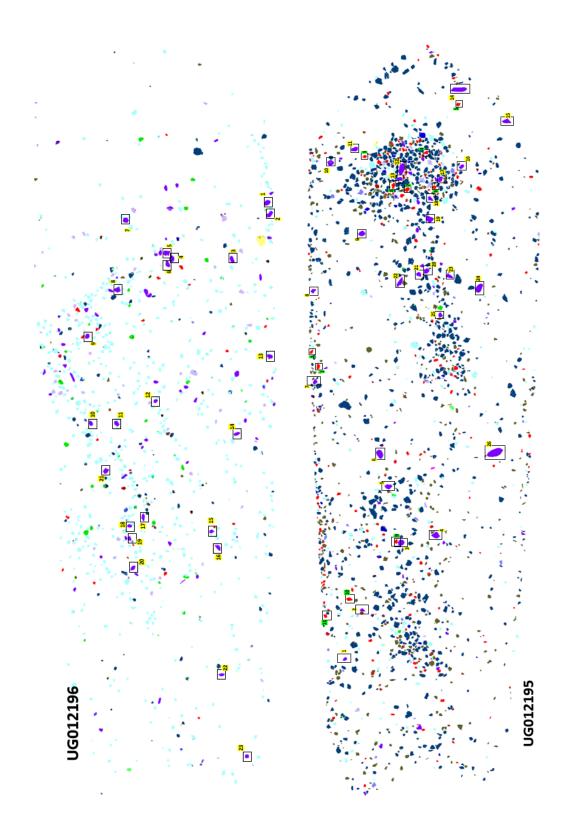






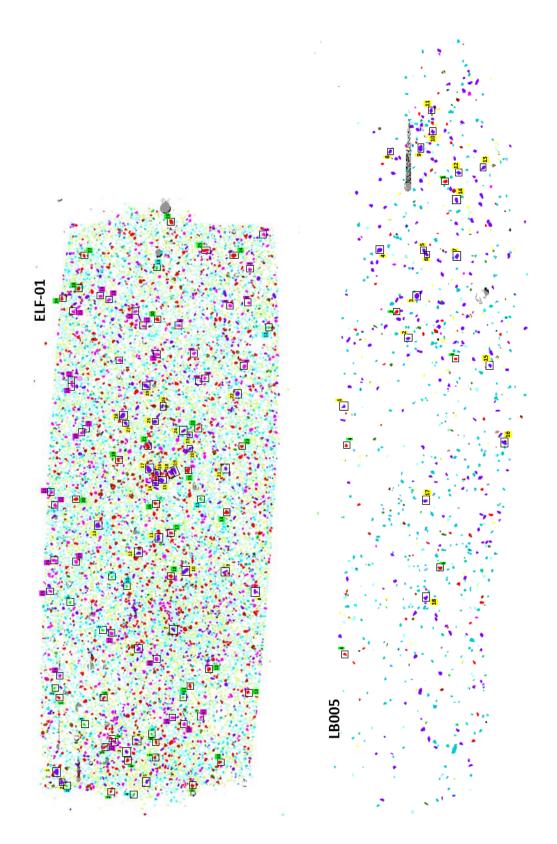


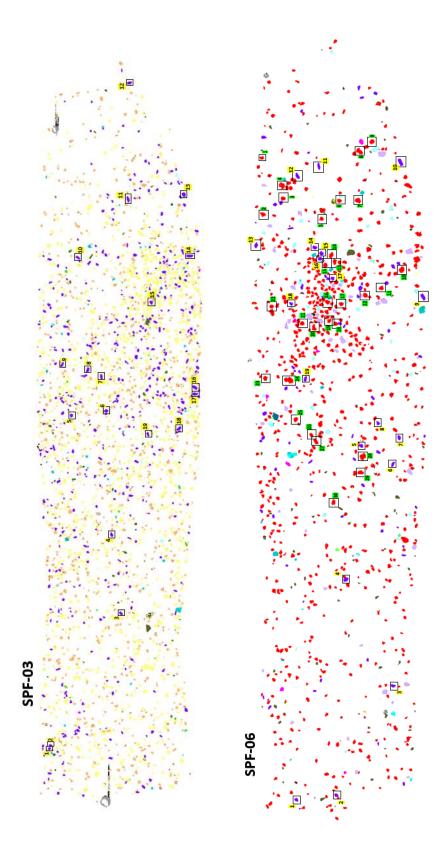


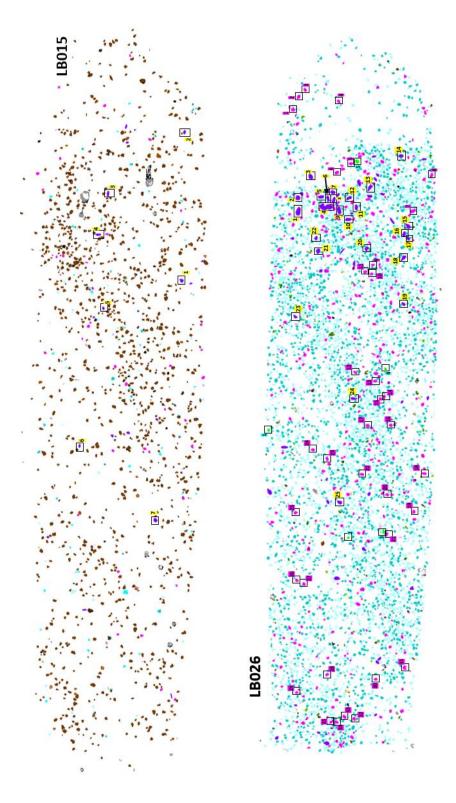


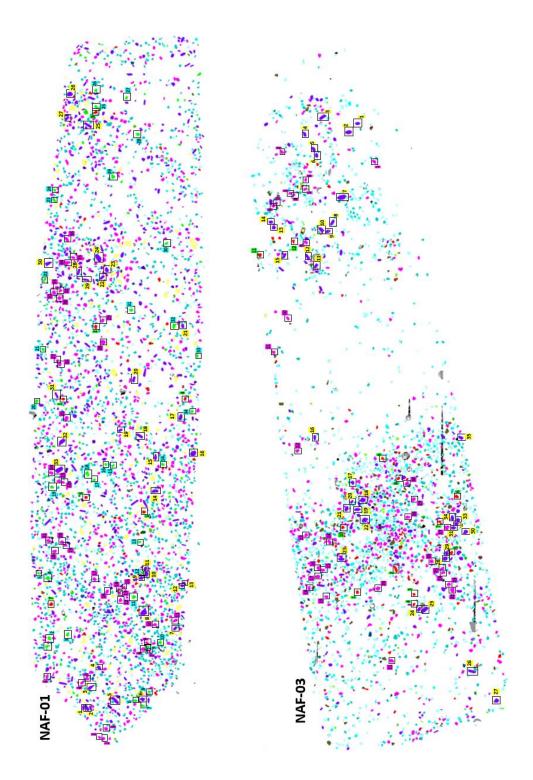


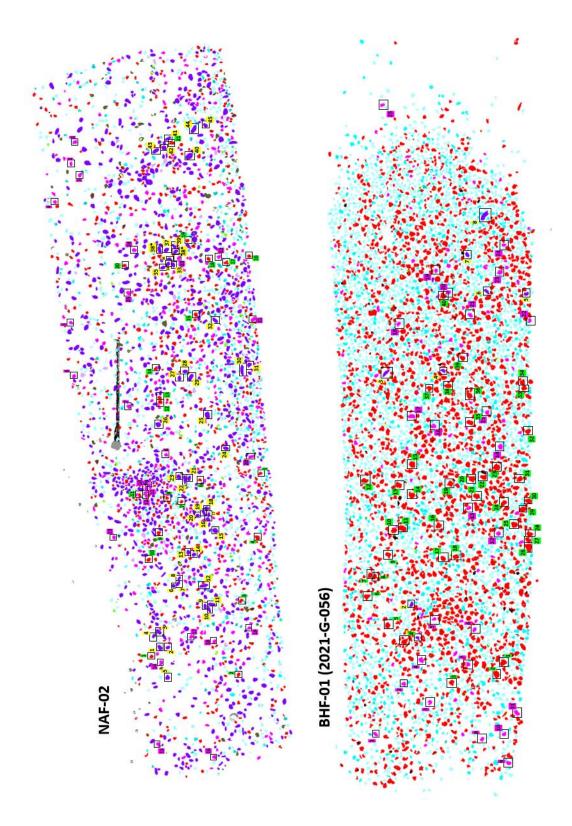


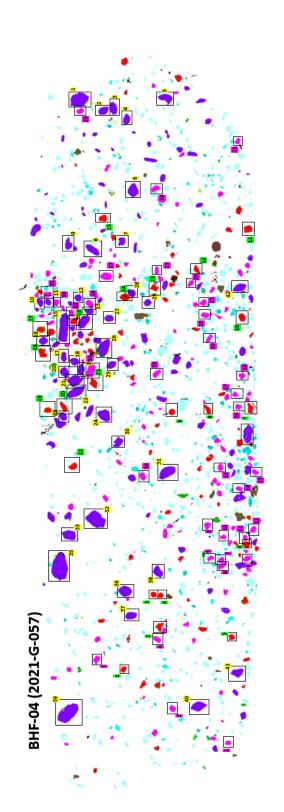


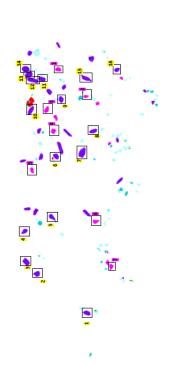




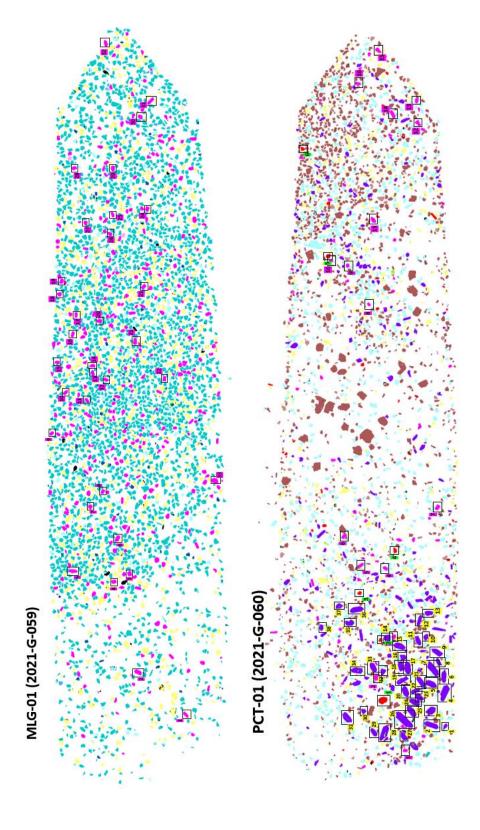


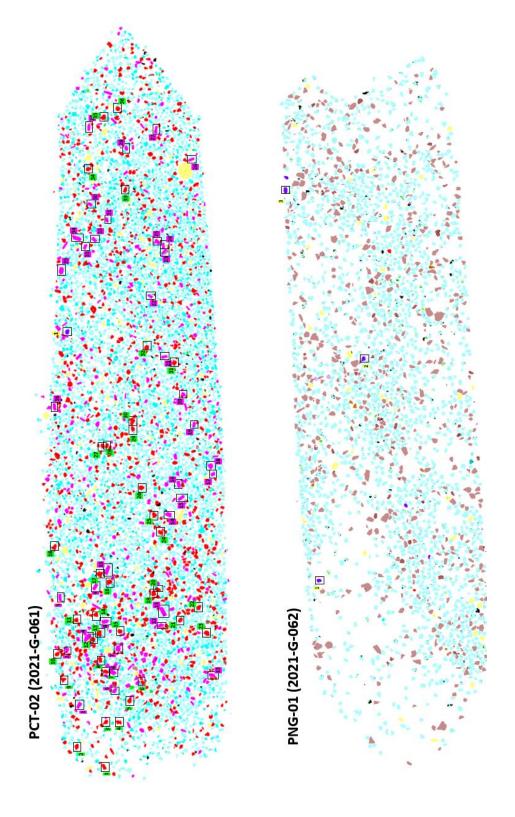


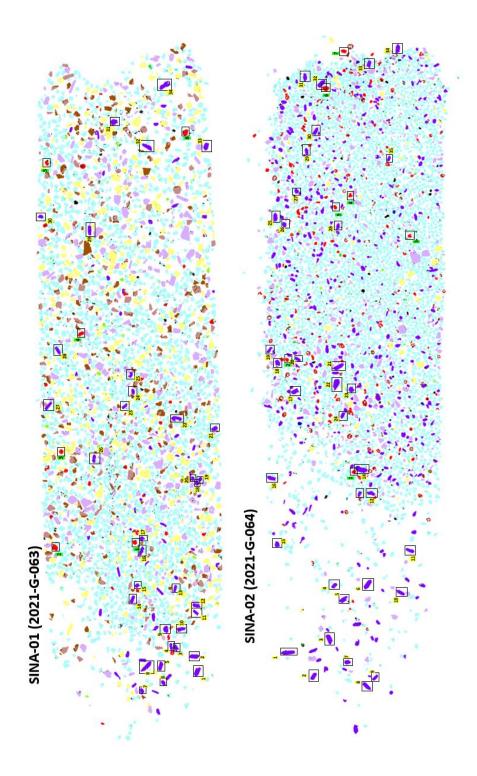


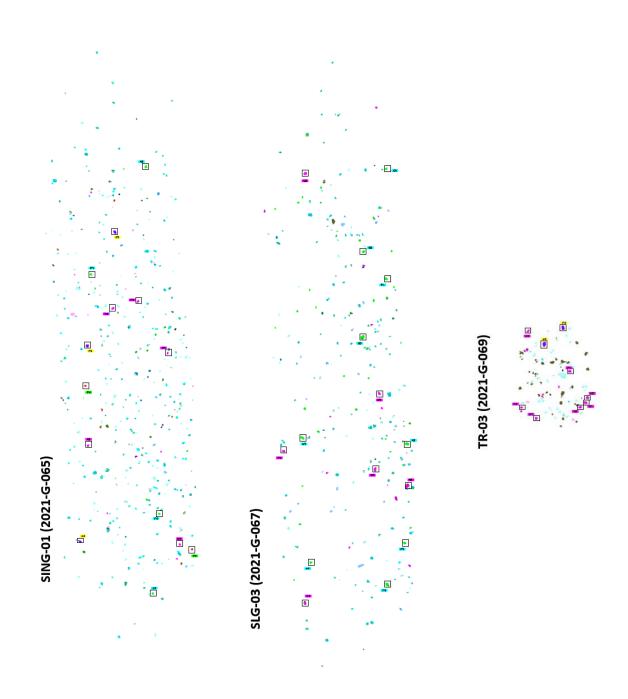


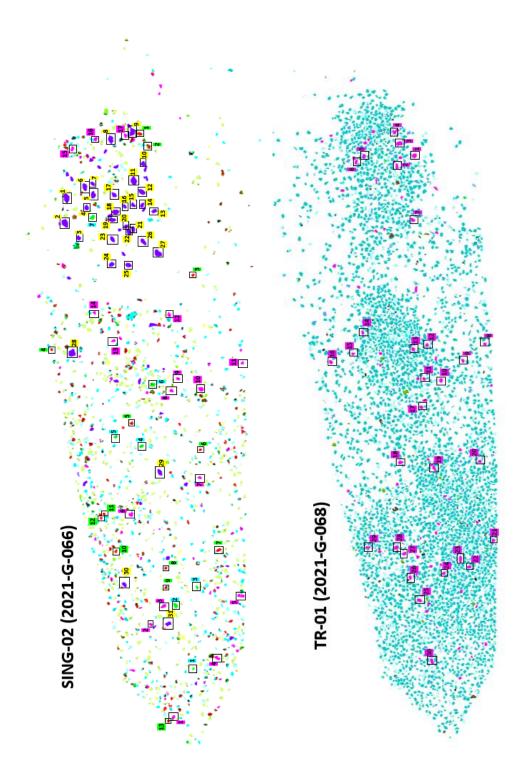
JEM-02 (2021-G-058)

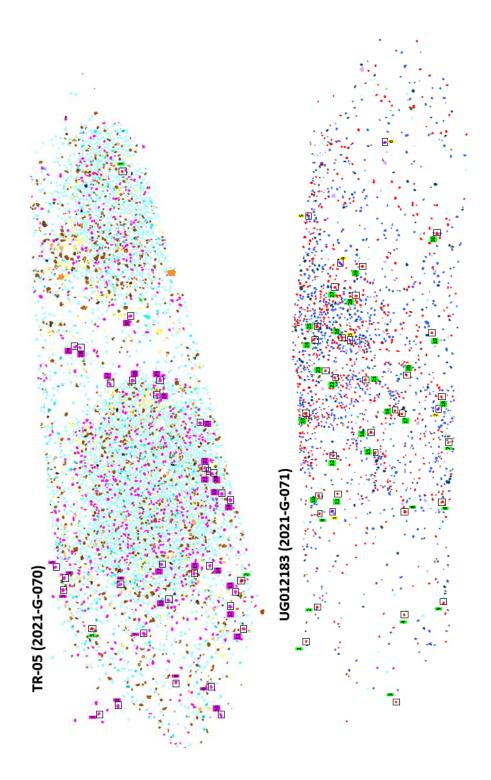


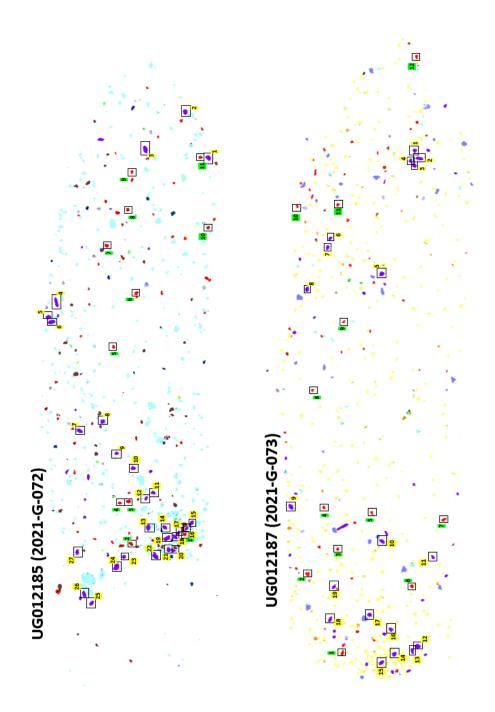


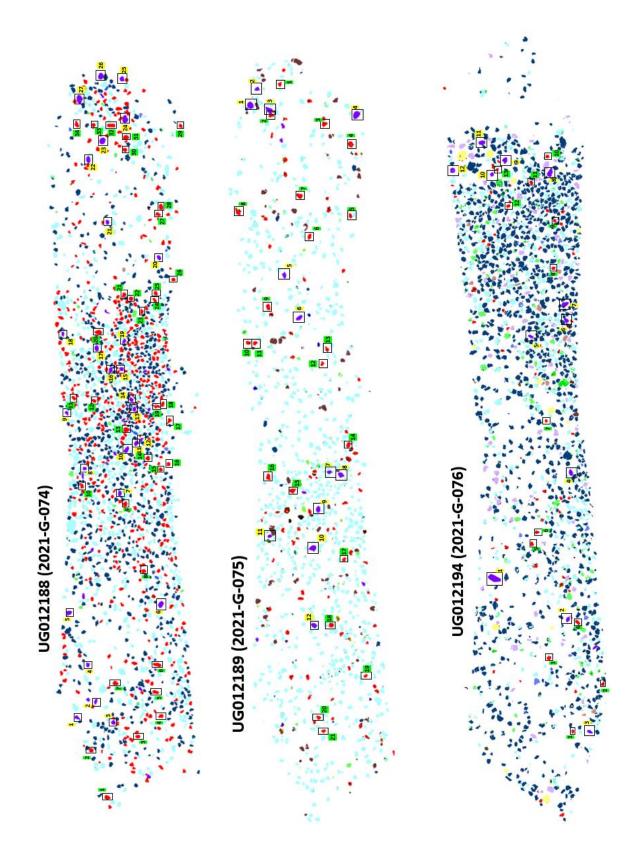


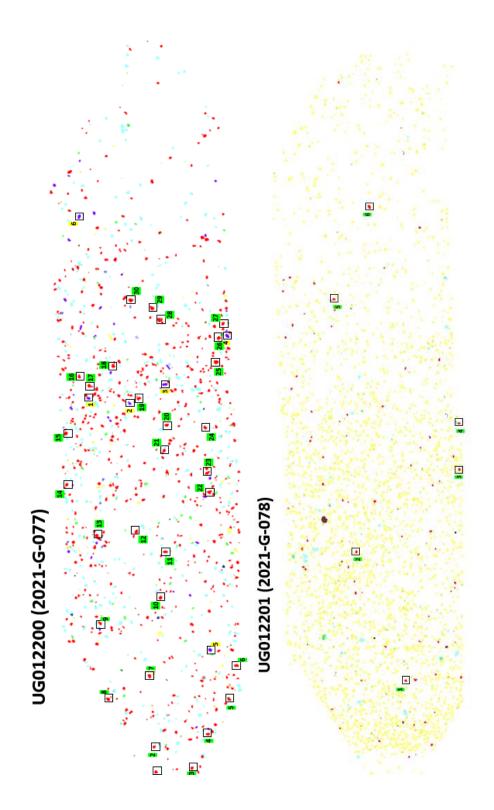


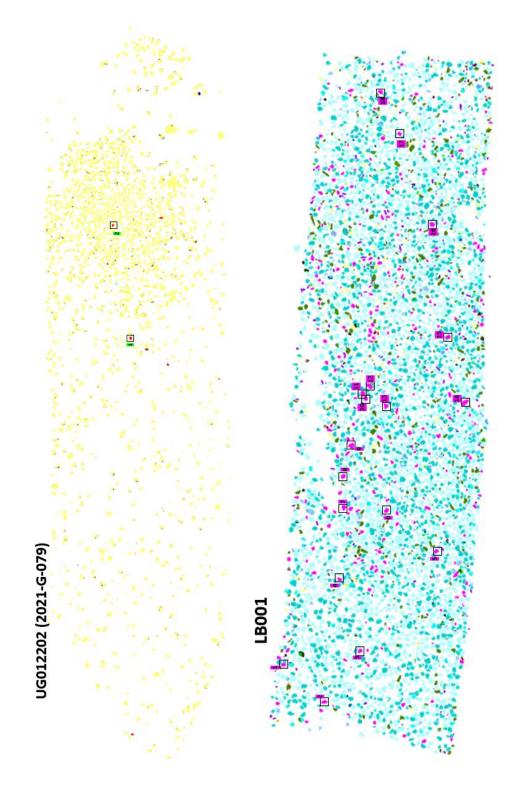


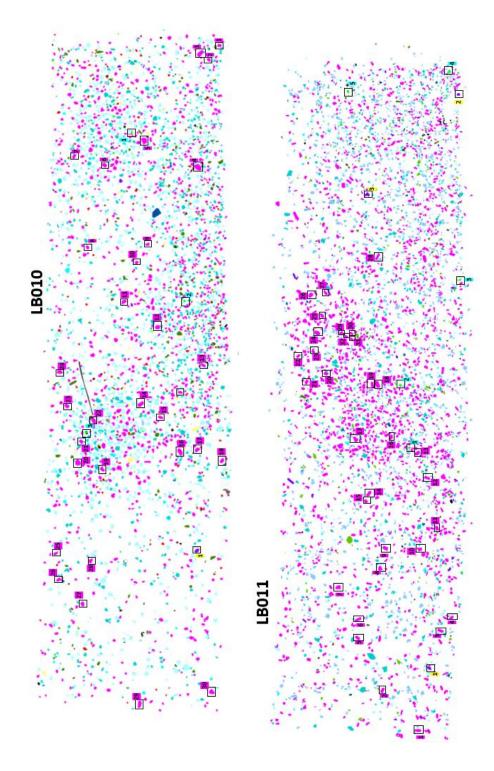


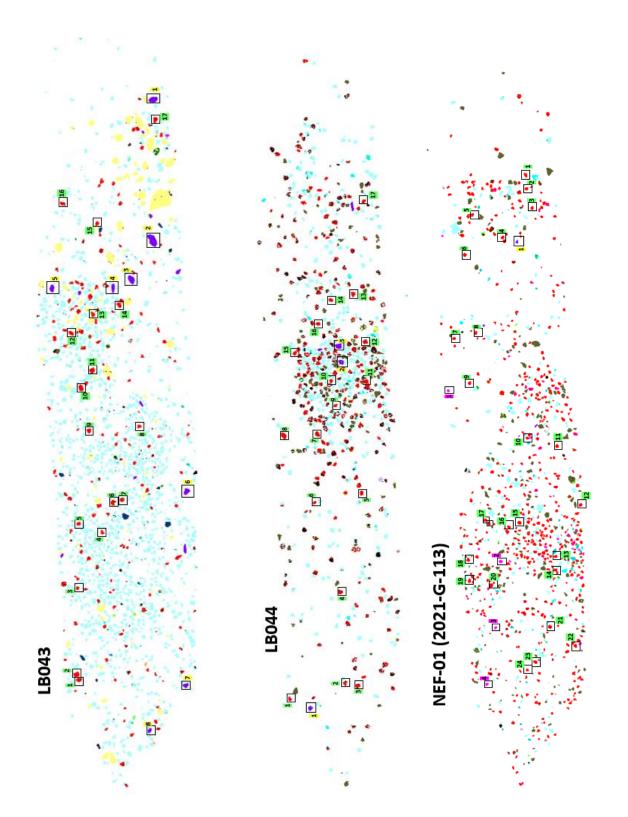


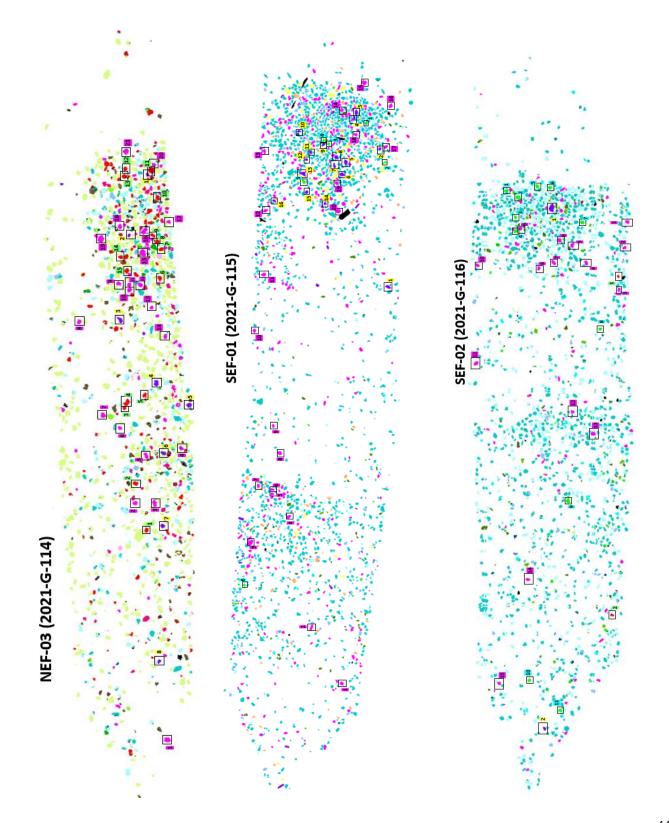


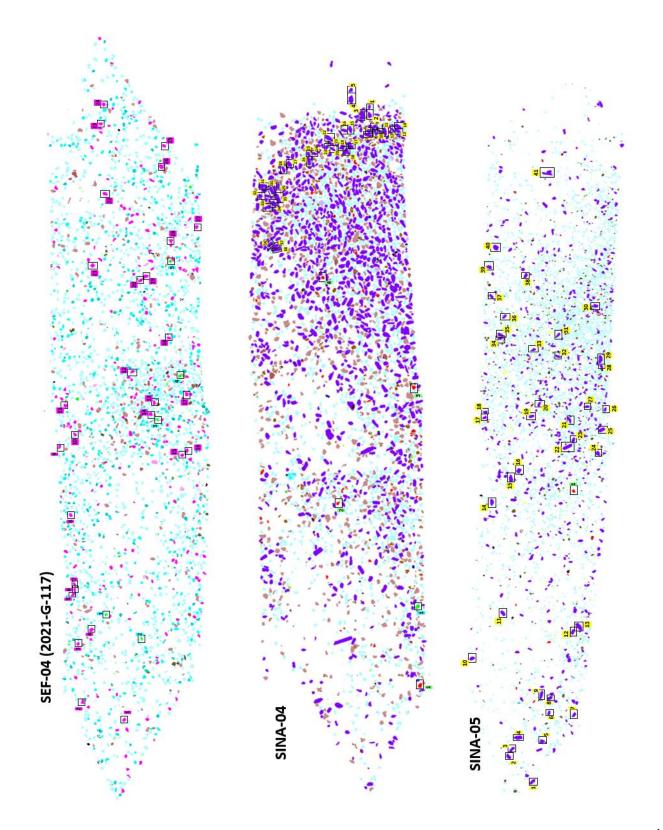


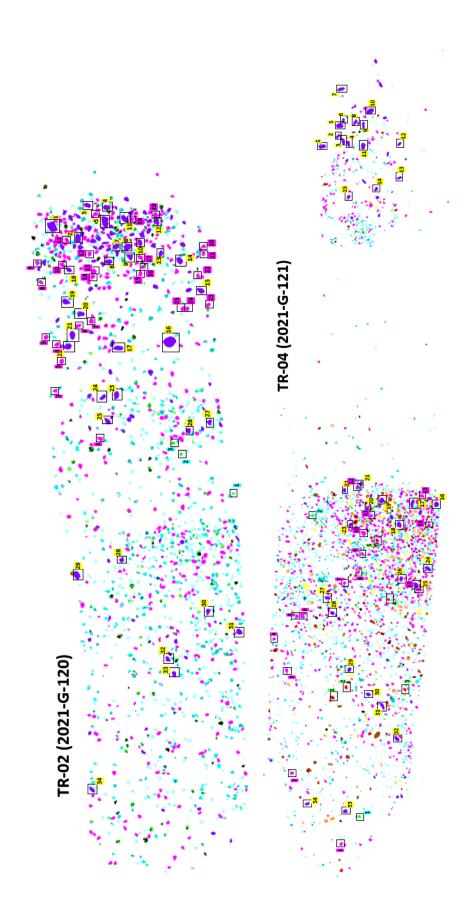


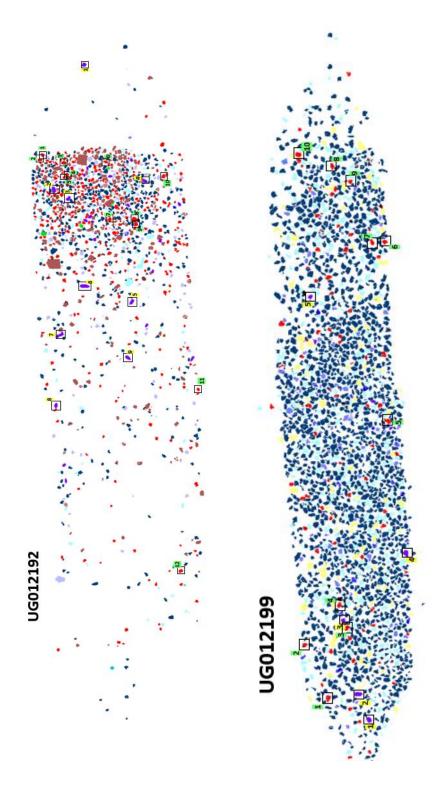


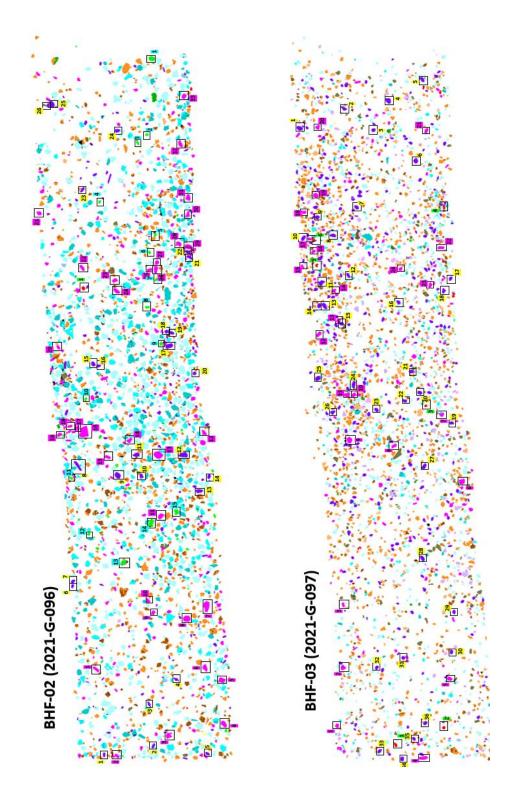


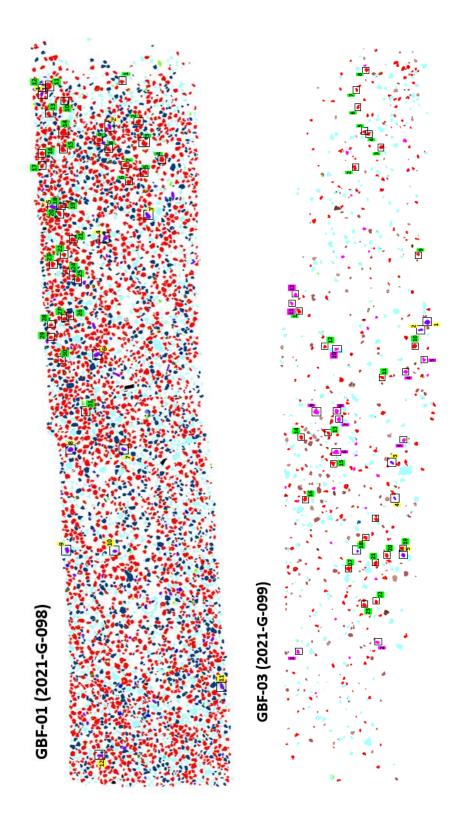


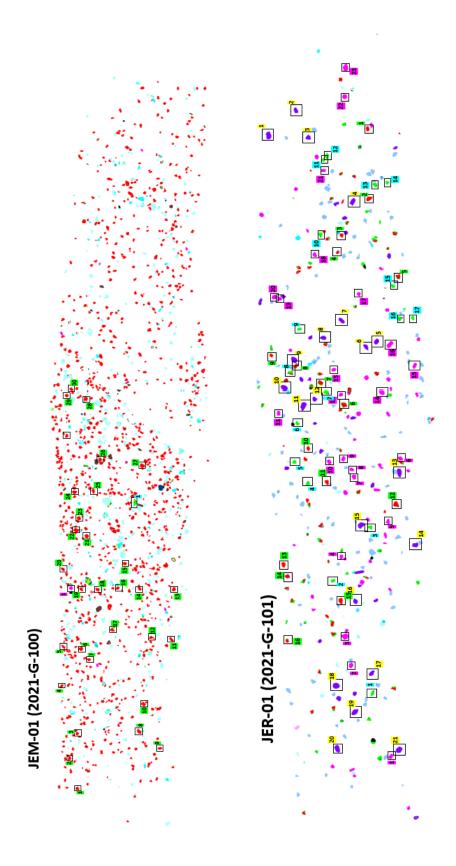


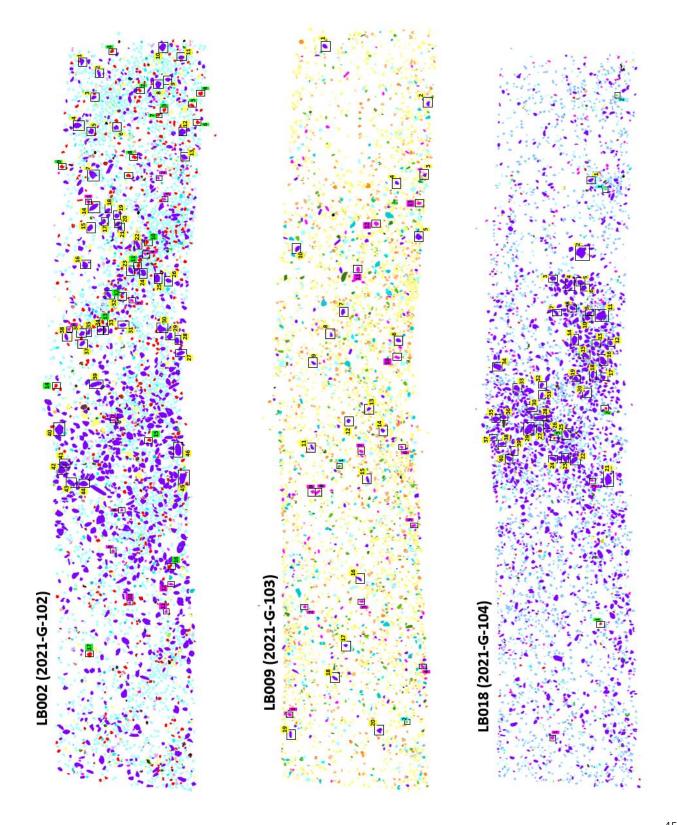


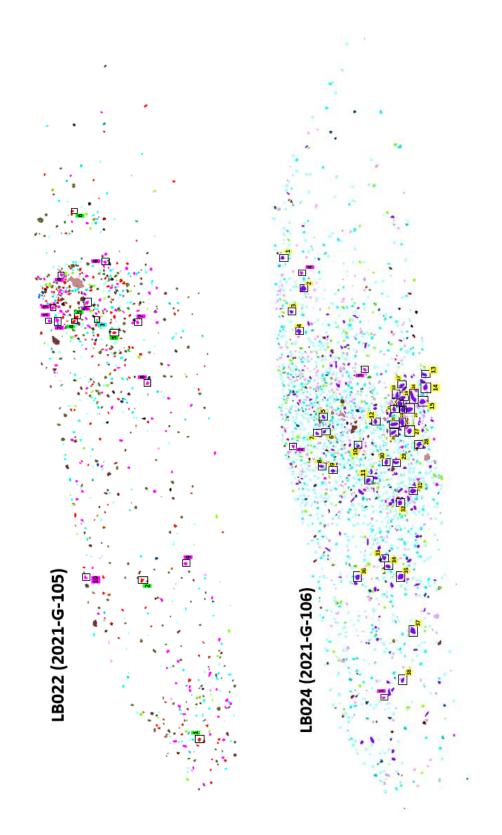


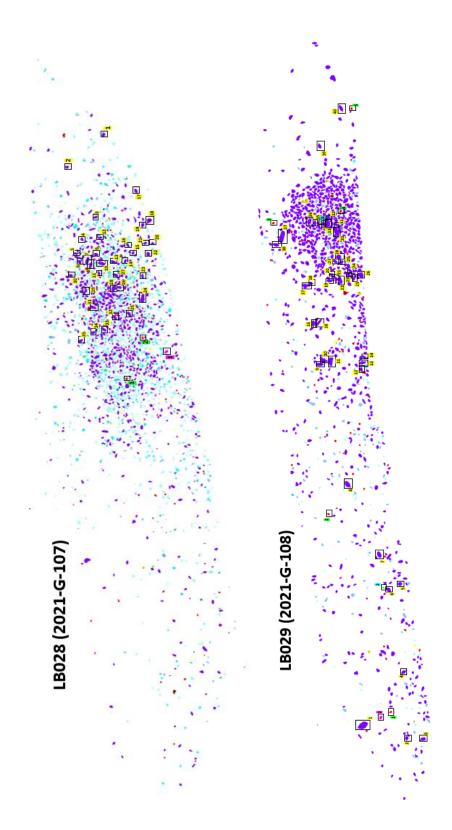


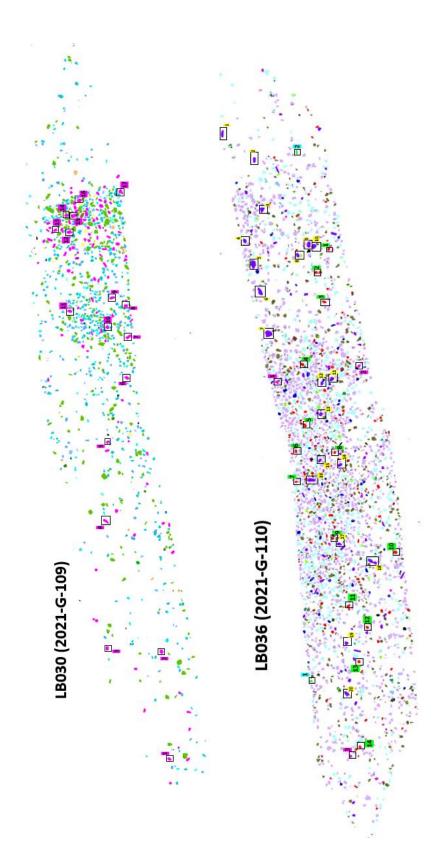


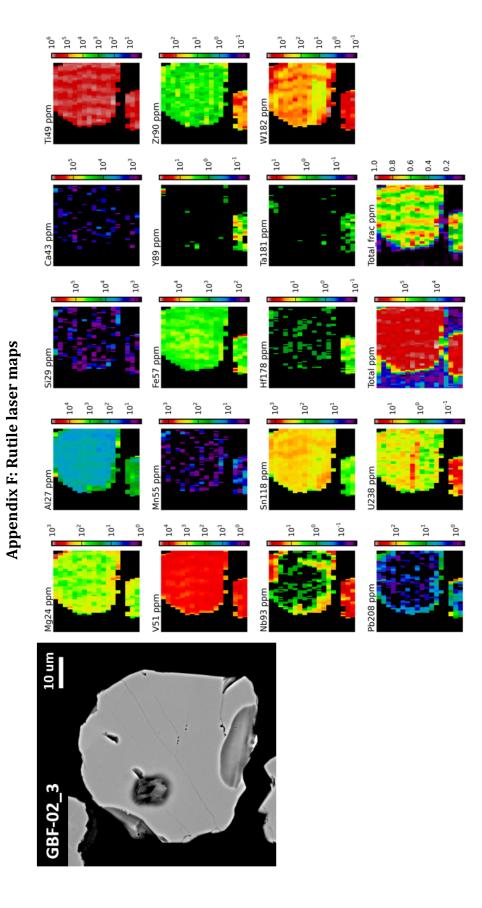


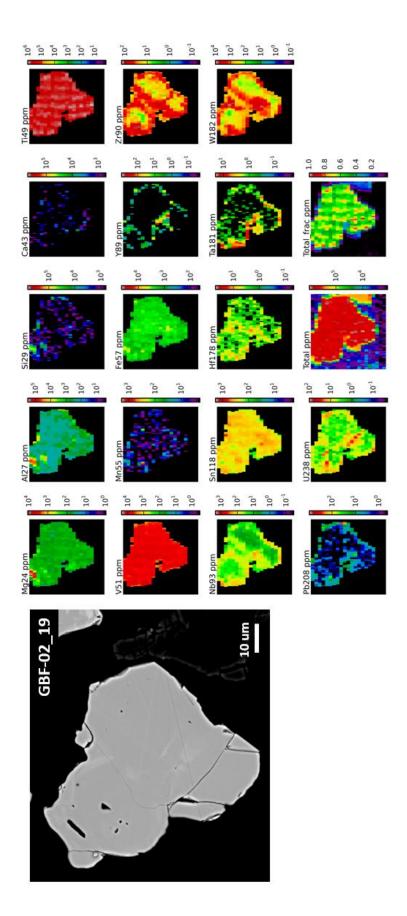


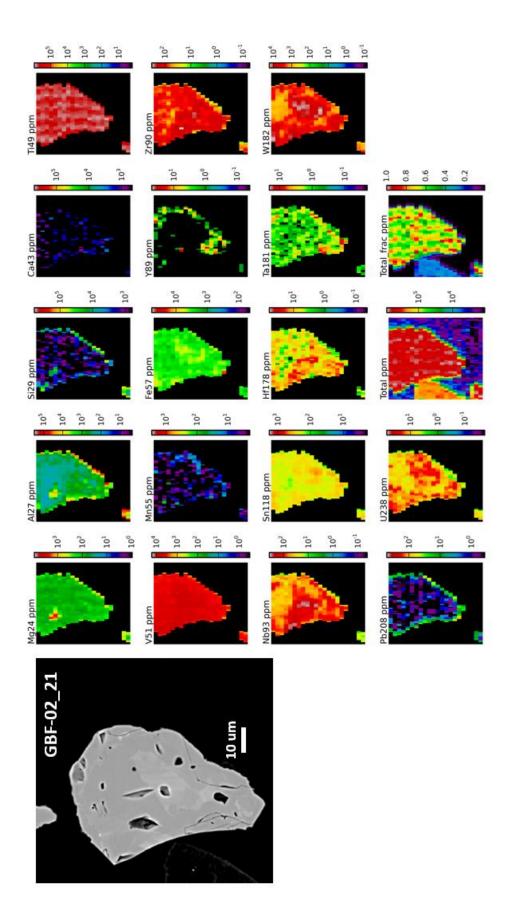


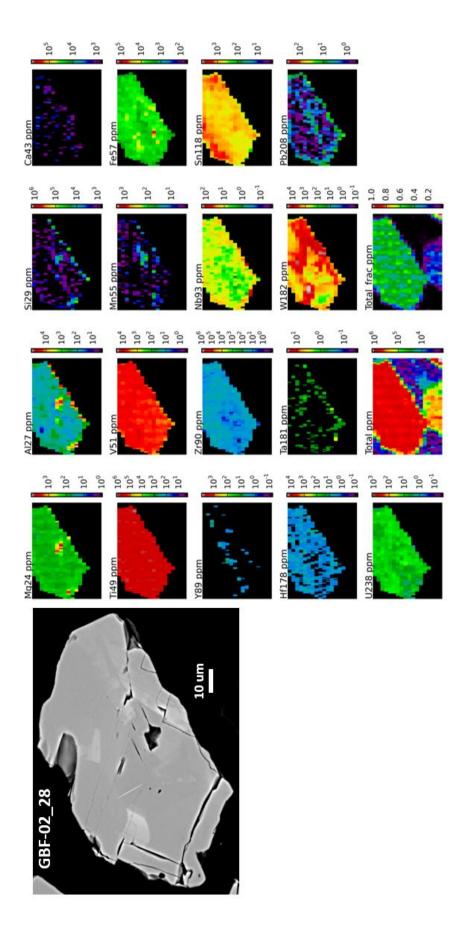


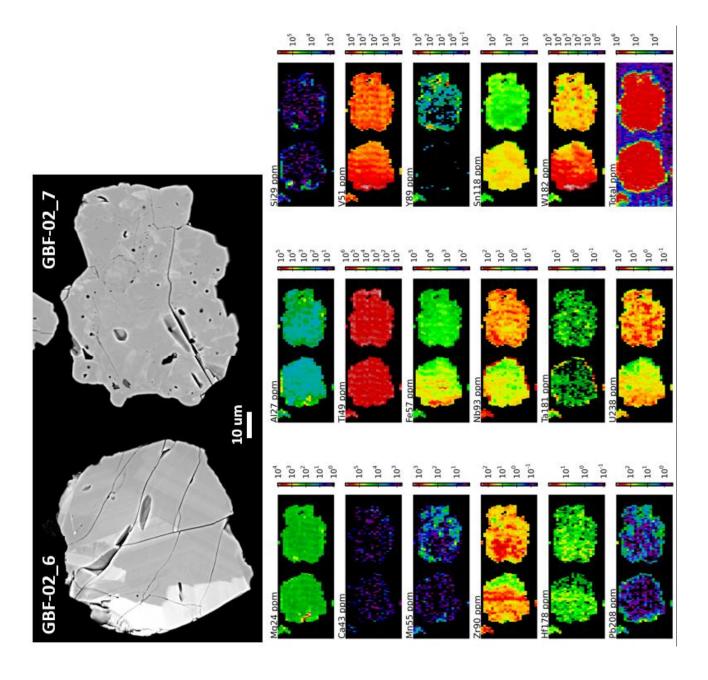












Appendix G: U-Pb geochronology age standards

		Pref.	Pref.	207 cor	207 cor					207Pb/235U								207Pb/235U	
Analysis	Mineral	+	Ť	206Pb/238U	206Pb/238U	238U/206Pb		207Pb/206Pb		(calc)		206Pb/238U		206Pb/238U		207Pb/206Pb		(calc)	
		(Ma)	7s%	Age (Ma)	2s%	ratio	1s%	ratio	18%	ratio	1s%	ratio	18%	Age (Ma)	2s%	Age (Ma)	2s%	Age (Ma)	2s%
91500_1_1	Zircon					5.5975	0.6584	0.0740	1.7324	1.8126	2.5466	0.1786	0.6645	1059.41	1.33	1040.11	6.72	1050.02	5.09
91500_1_2	Zircon			1064.5	1.3	5.5687	0.6584	0.0750	1.5719	1.8479	2.5466	0.1796	0.6645	1064.68		1067.37	5.92	1062.70	5.09
91500_1_3	Zircon					5.5381	0.6584	0.0743	1.8371	1.8605	2.5466	0.1806	0.6645	1070.35		1048.94	7.06	1067.16	5.09
91500_1_4	Zircon			1060.0	1.3	5.5714	0.6584	0.0782	1.7219	1.9449	2.5466	0.1795	0.6645	1064.06		1149.83	5.95	1096.68	5.09
91500_1_5	Zircon					5.6087	0.6584	0.0720	1.8237	1.7875	2.5466	0.1782	0.6645	1057.30	55.1	1010.83	6.54	1040.92	5.09
91500_1_5	Ziron			1052.2	7.0	5.6313	1 4245	0.0757	1 7523	1.8508	0.0455	0.1776	1 4080	1053.74	5 6	1086 23	6.30	1063 72	80.0
91500_1_7	Ziron			2:2001	7.7	5.5319	1 4245	0.0742	17176	1.8496	0.0455	0.1770	1.4080	1073.76		1044 76	1.0	1063.30	80.0
91500 1 9	Zircon			1063.0	1.0	5.5690	0.5044	0.0763	1.0781	1.8849	1.4287	0.1796	0.5057	1064.74		1101.22	3.92	1075.80	2.86
91500_1_10	Zircon					5.5737	0.5044	0.0733	1.1711	1.8099	1.4287	0.1794	0.5057	1063.76		1021.57	4.64	1049.03	2.86
91500_1_11	Zircon			1063.9	1.0	5.5718	0.5044	0.0750	1.1305	1.8466	1.4287	0.1795	0.5057	1064.07		1067.22	4.26	1062.23	2.86
91500_1_12	Zircon			1054.2	1.0	5.6240	0.5044	0.0750	1.1527	1.8301	1.4287	0.1778	0.5057	1054.86		1068.07	4.34	1056.30	2.86
91500_1_13	Zircon			1070.8	1.0	5.5285	0.5044	0.0759	1.1405	1.8806	1.4287	0.1809	0.5057	1071.70		1091.38	4.19	1074.28	2.86
91500_1_14	Zircon			1058.0	1.0	5.5897	0.5044	0.0772	1.1697	1.8929	1.4287	0.1789	0.5057	1061.03		1126.23	4.14	1078.61	2.86
91500_1_15	Zircon					5.5794	0.5044	0.0745	1.1379	1.8299	1.4287	0.1792	0.5057	1062.50		1054.49	4.35	1056.25	2.86
91500_1_16	Zircon					5.5450	0.5044	0.0744	1.1391	1.8400	1.4287	0.1804	0.5057	1069.10	1.01	1052.31	4.36	1059.87	2.86
91500_1_17	Zircon			1057.7	1.0	5.6054	0.5044	0.0749	1.2104	1.8362	1.4287	0.1784	0.5057	1058.13		1065.86	4.57	1058.51	2.86
91500_1_18	Zircon					5.5505	0.5044	0.0739	1.2483	1.8286	1.4287	0.1801	0.5057	1067.54		1037.85	4.86	1055.77	2.86
91500_1_19	Zircon			1057.1	1.0	5.6082	0.5044	0.0752	1.2467	1.8502	1.4287	0.1783	0.5057	1057.85		1072.51	4.67	1063.51	2.86
91500_1_20	Zircon			1066.3	1.0	5.5569	0.5044	0.0754	1.2794	1.8727	1.4287	0.1800	0.5057	1066.82	1.01	1078.15	4.76	1071.49	2.86
Mean = 1063.4 ± 2.7 Ma, MSWD = 0.665, prob = 0.87 Recommended age mean = 1063.51 ± 0.39 Ma; Hors	2.7 Ma, MSV ge mean = 1	Ma, MSWD = 0.665, prob = 0.87 mean = 1063,51 ± 0.39 Ma; Horstw	orob = 0.87 9 Ma; Hors	tworod et al.,	2016; TIMS														
Plesovice_1_1	Zircon	343.1	7.5	343.1	7.5	18.2871	0.7611	0.0539	1.2255	0.4074	2.8868	0.0547	0.7665	343.36	1.53	367.75	15.02	347.01	5.77
Plesovice_1_2	Zircon	339.1	1.6			18.5229	0.7558	0.0527	1.2527	0.3959	2.8428	0.0540	0.7779	339.10		313.70	18.17	338.66	5.69
Plesovice_1_3	Zircon	340.9	1.5	340.9	1.5	18.4076	0.7558	0.0540	1.1253	0.4088	2.8303	0.0544	0.7705	341.22		371.62	13.64	348.00	5.66
Plesovice_1_4	Zircon	343.7	1.5			18.2550	0.7503	0.0531	1.2661	0.4045	2.8457	0.0548	0.7747	343.66		331.73	17.31	344.91	5.69
Plesovice_1_5	Zircon	341.4	1.6			18.3792	0.7750	0.0530	1.2056	0.4010	2.8820	0.0544	0.7909	341.40		328.11	16.67	342.39	97.9
Plesovice_1_6	Zircon	340.0	1.2			18.4611	0.5909	0.0529	1.0006	0.3893	1.7730	0.0542	0.5996	340.04		323.45	14.05	333.83	3.55
Plesovice_1_7	Zircon	339.5	1.2			18.4955	0.5882	0.0530	0.9088	0.3928	1.7262	0.0541	0.5942	339.53		327.92	12.58	336.43	3.45
Plesovice_1_8	Zircon	340.2	6.			18.4631	0.6538	0.0530	0.8354	0.3937	1.6672	0.0542	0.6481	340.17		327.50	11.58	337.08	3.33
Plesovice_1_9	Zircon	337.8	1.2	337.8	1.2	18.5904	0.5830	0.0537	1.1338	0.3941	1.7989	0.0538	0.5945	338.04		359.50	14.23	337.38	3.60
Plesovice_1_10	Zircon	340.4	1.2			18.4447	0.5967	0.0520	1.0936	0.3866	1.7889	0.0542	0.6155	340.38		283.14	17.67	331.85	3.58
Plesovice 1 11	Zircon	341.6	1.2	100		18.3843	0.5791	0.0531	1.0130	0.3963	1.7549	0.0544	0.5901	341.65	1.18	330.21	13.92	338.96	3.51
Mean = 3	340.5 ± 1.3 M	Mean = 340.5 ± 1.3 Ma, MSWD = 0.53, prob = 0.87 Recommended are mean = 337 43 + 0.37 M	337 13 + 0	= 340.5 ± 1.3 Ma, MSWD = 0.53, prob = 0.87 Recommended are mean = 33.7 13 + 0.37 Mar. Slama et al	fal 2008 TIMS														
				o may o man															
Temora_1_1	Zircon	422.9	8.1	422.9	1.8	14.7413	0.9054	0.0556	2.5049	0.5206	3.5690	0.0678	0.9132	423.06		433.96	25.71	425.59	7.14
Temora_1_2	Zircon	419.7	1.8	419.7	1.8	14.9037	0.8576	0.0553	2.0698	0.5177	3.3083	0.0673	0.9051	419.71		423.04	21.83	423.62	6.62
Temora_1_3	Zircon	422.9	1.9	422.9	1.9	14.7197	0.9354	0.0565	2.9689	0.5349	3.9150	0.0679	0.9433	423.54	1.89	472.63	27.79	435.08	7.83
Temora_1_4	Zircon	420.0	2.0			14.8644	0.9669	0.0547	3.0296	0.5120	3.9146	0.0673	0.9797	420.04		398.31	34.09	419.80	7.83
Temora_1_5	Zircon	418.5	9:			14.9100	0.8528	0.0542	2.1733	0.5060	3.3563	0.0671	0.8793	418.46		379.90	25.72	415.78	6.71
Temora_1_6	Zircon	414.9	1.2			15.0427	0.6190	0.0551	1.3892	0.5031	1.9833	0.0665	0.6209	414.92		414.35	14.98	413.79	3.97
Temora_1_7	Zircon	411.8	1.5	411.8	1.5	15.1525	0.7026	0.0555	2.2061	0.5032	2.5351	0.0660	0.7246	412.08		431.00	22.81	413.87	2.07
Temora_1_8	Zircon	419.3	1.2	419.3	1.2	14.8777	0.6128	0.0553	1.3337	0.5093	1.9921	0.0672	0.6147	419.30		422.67	14.08	417.98	3.98
Temora_1_9	Zircon	419.4	1.2	419.4	1.2	14.8537	0.6168	0.0562	1.5312	0.5184	1.9823	0.0673	0.6257	419.97		459.92	14.76	424.10	3.96
Temora_1_10	Zircon	420.7	1.3	420.7	1.3	14.8161	0.6490	0.0560	1.5839	0.5187	2.1419	0.0675	0.6697	421.13		450.68	15.61	424.28	4.28
Temora 1 11	Zircon	414.8	1.5	414.8	1.5	14.9910	0.7301	0.0580	2.1294	0.5353	2.5281	0.0667	0.7316	416.31	1.46	529.59	17.62	435.31	90.5
Mean = 4	18.1 ± 2.3 M	Mean = 418.1 ± 2.3 Ma, MSWD = 1.18, prob = 0.30	.18, prob =	= 0.30															
Recomme	ended age n	lean = 416.8	± 1.1 Ma; L	Recommended age mean = 416.8 ± 1.1 Ma; Black et al., 2003; TIMS	TIMS														

Appendix G: U-Pb geochronology age standards

Analysis	Mineral	Pref.	Pref.	207 cor 206Pb/23811	207 cor 206Pb/238U	238LI/206Ph		207Pb/206Pb		207Pb/235U		206Pb/238U		206Pb/238U		207Ph/206Ph		207Pb/235U	
		(Ma)		Age (Ma)	2s%	ratio	18%	ratio	18%	ratio	18%	ratio	18%	Age (Ma)	2s%	Age (Ma)	2s%	Age (Ma)	2s%
91500_2_1	Zircon			1057.6	1.0	5.6095	0.5150	0.0748	1.7950	1.8336	2.2974	0.1783	0.5166	1057.82	1.03	1061.69	6.80	1057.56	4.59
91500_2_2	Zircon					5.5445	0.5150	0.0737	1.9495	1.8271	2.2974	0.1803	0.5166	1068.76	1.03	1031.97	7.63	1055.23	4.59
91500_2_3	Zircon			1069.8	1.0	5.5318	0.5150	0.0761	1.7353	1.8848	2.2974	0.1808	0.5166	1071.08	1.03	1097.74	6.33	1075.75	4.59
91500_2_4	Zircon			1052.2	1.1	5.6092	0.5150	0.0786	1.8495	1.9192	2.2974	0.1782	0.5166	1057.10	1.03	1162.28	6.31	1087.80	4.59
91500_2_5	Zircon					5.5840	0.5150	0.0741	1.9550	1.8097	2.2974	0.1790	0.5166	1061.51	1.03	1043.01	7.56	1048.97	4.59
91500_2_7	Zireon					5.5884	0.3512	0.0746	1.8222	1.8165	2.5808	0.1789	0.3455	1061.22	69:0	1055.61	6.95	1051.42	5.16
91500_2_8	Zircon			1063.3	0.7	5.5619	0.3512	0.0770	1.7795	1.8840	2.5808	0.1798	0.3455	1065.80	0.69	1119.42	6.34	1075.46	5.16
91500_2_9	Zircon					5.5625	0.5444	0.0747	1.3868	1.8551	1.2713	0.1797	0.5525	1065.50	1.1	1059.28	5.27	1065.24	2.54
91500_2_10	Zircon			1058.0	<u>+</u> -	5.6052	0.5444	0.0750	1.3675	1.8494	1.2713	0.1784	0.5525	1058.43	1.1	1068.19	5.15	1063.20	2.54
91500_2_11	Zircon			1069.7	1.1	5.5359	0.5444	0.0759	1.2051	1.8862	1.2713	0.1807	0.5525	1070.67	1.1	1091.79	4.42	1076.26	2.54
91500_2_12	Zircon					5.5855	0.5444	0.0731	1.2649	1.7996	1.2713	0.1790	0.5525	1061.60	1.1	1015.73	5.05	1045.32	2.54
91500_2_13	Zircon			1061.4	1.7	5.5849	0.5444	0.0750	1.2271	1.8422	1.2713	0.1790	0.5525	1061.76	1.1	1068.83	4.61	1060.67	2.54
91500_2_14	Zircon			1054.7	<del>-</del>	5.6117	0.5444	0.0764	1.3399	1.8652	1.2713	0.1782	0.5525	1056.89	1.1	1103.64	4.85	1068.84	2.54
91500_2_15	Zircon					5.5456	0.5444	0.0748	1.3112	1.8461	1.2713	0.1803	0.5525	1068.60	1.7	1063.24	4.96	1062.03	2.54
91500_2_16	Zircon			1070.3	1.1	5.5349	0.5444	0.0756	1.2093	1.8683	1.2713	0.1807	0.5525	1070.88	1.1	1083.00	4.48	1069.92	2.54
91500_2_17	Zircon			1054.2	<u>+</u>	5.6122	0.5444	0.0768	1.3308	1.8588	1.2713	0.1782	0.5525	1056.92	1.1	1115.26	4.76	1066.57	2.54
91500_2_18	Zircon			1063.4	1.7	5.5734	0.5444	0.0752	1.3650	1.8313	1.2713	0.1794	0.5525	1063.84	1.1	1071.75	5.12	1056.74	2.54
91500_2_19	Zircon			1062.6	1.	5.5666	0.5466	0.0768	2.0567	1.8469	1.2148	0.1796	0.5641	1064.94	1.13	1115.23	7.36	1062.31	2.43
91500_2_20	Zircon			1059.2	1.1	5.5838	0.5466	0.0771	1.9561	1.8509	1.2148	0.1791	0.5641	1062.07	1.13	1123.08	6.94	1063.76	2.43
91500_2_21	Zircon					5.5655	0.5466	0.0738	1.8636	1.8290	1.2148	0.1797	0.5641	1065.46	1.13	1034.82	7.28	1055.91	2.43
91500_2_22	Zircon			1059.7	<del>-</del>	5.5866	0.5466	0.0760	1.7326	1.8773	1.2148	0.1789	0.5641	1061.23	1.13	1094.08	6.34	1073.10	2.43
91500_2_23	Zircon					5.5289	0.5466	0.0740	1.8502	1.8742	1.2148	0.1809	0.5641	1071.89	1.13	1039.81	7.18	1072.03	2.43
91500_2_24	Zircon					5.6196	0.5466	0.0731	1.7879	1.8231	1.2148	0.1779	0.5641	1055.46	1.13	1016.99	7.12	1053.79	2.43
91500_2_25	Zircon			1067.8	0.8	5.5452	0.3770	0.0756	1.2779	1.8523	0.4613	0.1803	0.3748	1068.47	0.75	1082.69	4.73	1064.27	0.92
91500_2_26	Zircon			1055.5	0.8	5.6081	0.3770	0.0767	1.1873	1.8594	0.4613	0.1783	0.3748	1057.94	0.75	1111.31	4.27	1066.76	0.92
91500_2_27	Zircon					5.5510	0.3770	0.0743	1.3165	1.8335	0.4613	0.1802	0.3748	1068.00	0.75	1049.57	90'9	1057.52	0.92
91500_2_28	Zircon			1059.2	0.8	5.5932	0.3770	0.0757	1.3185	1.8523	0.4613	0.1788	0.3748	1060.38	0.75	1085.59	4.87	1064.25	0.92
91500_2_29	Zircon			1064.5	8.0	5.5631	0.3770	0.0757	1.2980	1.8554	0.4613	0.1797	0.3748	1065.55	0.75	1086.91	4.79	1065.37	0.92
91500_2_30	Zircon			1058.2	0.8	5.5939	0.3770	0.0760	1.4769	1.8515	0.4613	0.1787	0.3748	1059.81	0.75	1094.42	5.40	1063.97	0.92
91500_2_31	Zircon			1.061.1	0.8	5.5846	0.3770	0.0756	1.3208	1.8435	0.4613	0.1791	0.3748	1062.08	0.75	1082.59	4.89	1061.13	0.92
91500_2_32	Zircon			1065.7	0.8	5.5609	0.3770	0.0753	1.4106	1.8444	0.4613	0.1798	0.3748	1066.15	0.75	1074.90	5.27	1061.45	0.92
91500_2_33	Zircon			1063.7	0.8	5.5734	0.3770	0.0749	1.2239	1.8620	0.4613	0.1794	0.3748	1063.85	0.75	1065.33	4.62	1067.68	0.92
91500_2_34	Zircon					5.5782	0.3770	0.0744	1.3179	1.8479	0.4613	0.1792	0.3748	1062.86	0.75	1050.87	5.05	1062.67	0.92
Mean = 1	Mean = 1063.5 ± 1.6 Ma, MSWD = 0.75, prob = 0.85 Recommended are mean = 1063 51 + 0.39 Mar.	Ma, MSWD	= 0.75, prot	tan = 1063.5 ± 1.6 Ma, MSWD = 0.75, prob = 0.85  Recommended and mean = 1063.51 + 0.39 Mar Horstword et al.	odetal 2016-T	SMI													
d d	ľ		,			000	0		0		0		71000	3			9	001	į
Plesovice_Z_1	Zircon	υ 45 υ 45 υ 45	<u>.</u> ن ر	0		18.3732	0.0019	0.0528	1.3598	0.3941	2.7032	0.0544	0.000	94.149	S	318.34	19.42	337.38	4 c
Plesovice_2_2	Zircon	342	- <u>-</u> 3 4	342.	<u>.</u>	18 2370	0.6332	0.0343	1.2360	0.4053	2.66.60	0.0346	0.0030	342.30	5. t	364.50	4.4. 4.0.	337.00	5.33
Plesovice 2 4	Zircon	340.7	. <u>t</u>	340.7	1.3	18.4173	0.6368	0.0535	0.9972	0.4005	1.6669	0.0543	0.6432	340.81	1.29	349.70	12.89	341.99	3.33
Plesovice_2_5	Zircon	344.1	6.	344.1	1.3	18.2417	0.6351	0.0541	0.8922	0.4059	1.6290	0.0549	0.6403	344.37	1.28	374.35	10.73	345.90	3.26
Plesovice_2_6	Zircon	343.6	6.	343.6	1.3	18.2350	0.6865	0.0540	0.8992	0.4039	1.5678	0.0548	0.6598	343.90	1.32	371.29	10.91	344.44	3.14
Plesovice_2_7	Zircon	344.1	1.3			18.2438	0.6275	0.0520	0.9168	0.3892	1.5971	0.0548	0.6372	344.07	1.27	285.05	14.71	333.76	3.19
Plesovice_2_8	Zircon	337.7	1.4			18.5896	0.6886	0.0530	1.2417	0.3883	1.8661	0.0538	0.7202	337.66	4.	326.87	17.24	333.10	3.73
Plesovice_2_9	Zircon	338.8	4.1	338.8	1.4	18.5343	0.6873	0.0533	1.4804	0.4010	1.9716	0.0540	0.7103	338.80	1.42	342.19	19.58	342.41	3.94
Plesovice_2_10	Zircon	339.0	<del>[</del> :	339.0	1.1	18.5477	0.5503	0.0533	0.9447	0.3891	1.0581	0.0540	0.5581	339.03	1.12	340.39	12.57	333.72	2.12
Plesovice_2_11	Zircon	339.9	0.7	339.9	1.0	18.4676	0.4983	0.0533	0.9591	0.3935	1.0777	0.0541	0.5011	339.94	0.5	340.33	12.76	336.91	2.16
Plesovice_2_12	Zircon	343.3	0			18.2835	0.4973	0.0529	0.9052	0.3937	1.0676	0.0547	0.5012	343.28	9: 5	324.70	12.66	337.06	2.14
Plesovice 2 13	Zircon	340.9	1.0	340.9	1.0	18.3914	0.5135	0.0539	0.8493	0.4020	1.0476	0.0544	0.5002	341.19	1.00	364.53	10.50	343.06	2.10
	ë	5 ± 1.1 Ma,	MSWD = 1.	Mean = 341.5 ± 1.1 Ma, MSWD = 1.09, prob = 0.36															
Re	Recommended	d age mear	1 = 337.13 ±	ended age mean = 337.13 ± 0.37 Ma; Slama et al., 2008; TIMS	et al., 2008; TIM	S													

Appendix G: U-Pb geochronology age standards

		Pref.	Pref.	207 cor	207 cor					207Pb/235U								207Pb/235U	
Analysis	Mineral	Age	Ť	206Pb/238U	206Pb/238U	238U/206Pb		207Pb/206Pb		(calc)		206Pb/238U		206Pb/238U		207Pb/206Pb		(calc)	
ŀ	i	(Ma)	2s%	Age (Ma)	2s%	ratio	18%	ratio	15%	ratio	15%	ratio	18%	Age (Ma)	-	Age (Ma)	.,	Age (Ma)	2s%
lemora_2_1	Zircon	413.4	L 0 Di 0		6	15.1023	0.8910	0.0533	3.0319	0.4840	3.7424	0.0662	0.9453	413.36		339.11		400.84	7.48
Temora_2_2	Zircon	416.7	2.0	416.7	2.0	14.9190	0.9657	0.0588	3.3791	0.5383	4.0788	0.0671	0.9693	418.49		557.14		437.32	8.16
Temora_2_3	Ziroon	418.3	υ ∠	418.3	<u>.</u> . ∠	14.8793	0.7128	0.0570	1.8501	0.5223	2.9831	0.0672	0.7700	419.21	¥. £	489.60	16.67	426.67	5.97 A 25
Temora 2.5	Zircon	420.1	ŧ <u></u>	+5+	1	14 8414	0.7010	0.0339	2.5241	0.3232	2.8099	0.0673	0.8666	420.08		363.81		410 19	5 6
Temora 2 6	Zircon	416.2	. 4.	416.2	1.6	15.0142	0.7511	0.0563	2.0287	0.5130	2.3780	0.0668	0.7939	416.80		464.34		420.45	4.76
Temora_2_7	Zircon	417.7	1.7	417.7	1.7	14.9267	0.8293	0.0556	2.6938	0.5078	3.0567	0.0670	0.8382	417.93		434.26	27.63	416.98	6.11
Temora_2_8	Zircon	417.4	1.7			14.9381	0.8209	0.0512	2.7290	0.4670	3.1020	0.0669	0.8744	417.43		247.36	50.79	389.08	6.20
Temora_2_9	Zircon	419.2	1.7			14.8800	0.7992	0.0544	2.2784	0.5092	2.6333	0.0672	0.8457	419.23		384.65	26.61	417.88	5.27
Temora_2_10	Zircon	414.1	1.2			15.0825	0.5758	0.0550	1.7269	0.4988	1.7827	0.0663	0.6150	414.10		410.85	18.80	410.87	3.57
Temora_2_11	Zircon	419.1	1.2			14.8989	0.6062	0.0546	1.9118	0.5000	1.9542	0.0672	0.6246	419.09	1.25	395.44	21.68	411.68	3.91
Temora_2_12	Zircon	412.2	1.4	412.2	4.1	15.1100	0.6665	0.0567	2.2285	0.5108	2.2478	0.0662	0.7007	413.08		479.71	20.53	419.00	4.50
Temora 2_13	Zircon	416.0	1.2	416.0	1.2	14.9739	0.5753	0.0569	1.8190	0.5204	1.9145	0.0668	0.5862	416.90	1.17	487.34	16.47	425.43	3.83
	Mean = 417.2	± 1.7 Ma,	MSWD = 1.	Mean = 417.2 ± 1.7 Ma, MSWD = 1.05, prob = 0.40	TIME														
Ишорах	enged age m	lean = 416.	6 I 1.1 Ma,	black et al., 2000	S, IIMS	_													
91500_3_1	Zircon			1059.9	6.0	5.5864	0.4707	0.0761	1.2061	1.8834	1.6422	0.1790	0.4665	1061.56	0.93	1097.90	4.40	1075.24	3.28
91500_3_2	Zircon			1066.9	6.0	5.5557	0.4707	0.0750	1.3556	1.8646	1.6422	0.1800	0.4665	1066.92	0.93	1067.54	5.10	1068.63	3.28
91500_3_3	Zircon			1067.4	6.0	5.5486	0.4707	0.0755	1.2502	1.8672	1.6422	0.1802	0.4665	1068.04		1081.48		1069.53	3.28
91500_3_4	Zircon					5.6242	0.4707	0.0732	1.3016	1.7839	1.6422	0.1778	0.4665	1054.81		1017.22		1039.61	3.28
91500_3_5	Zircon					5.5481	0.4707	0.0743	1.2879	1.8284	1.6422	0.1803	0.4665	1068.59		1047.89		1055.70	3.28
91500_3_6	Zircon			1059.9	6.0	5.5943	0.4707	0.0749	1.3917	1.8289	1.6422	0.1788	0.4665	1060.21		1065.68		1055.87	3.28
91500_3_7	Zircon			1069.2	6.0	5.5331	0.4707	0.0761	1.2900	1.8752	1.6422	0.1806	0.4665	1070.51		1097.78		1072.38	3.28
91500_3_8	Zircon			1061.6	6.0	5.5829	0.4707	0.0753	1.4717	1.8397	1.6422	0.1791	0.4665	1062.25		1076.54		1059.74	3.28
91500_3_9	Zircon			1.057.7	6.0	5.5918	0.4707	0.0773	1.2799	1.8895	1.6422	0.1789	0.4665	1060.82		1127.92		1077.39	3.28
91500_3_10	Zircon			1055.4	6.0	5.6088	0.4707	0.0764	1.3078	1.8611	1.6422	0.1783	0.4665	1057.53		1103.96		1067.36	3.28
91500_3_11	Zircon			1064.5	6.0	5.5643	0.4707	0.0758	1.1883	1.8772	1.6422	0.1797	0.4665	1065.59		1088.96		1073.07	3.28
91500_3_12	Zircon					5.5571	0.4707	0.0736	1.2956	1.8246	1.6422	0.1799	0.4665	1066.55		1029.04		1054.34	3.28
91500_3_13	Zircon					5.5865	0.4707	0.0730	1.3747	1.8170	1.6422	0.1790	0.4665	1061.62		1013.98		1051.61	3.28
91500_3_14	Zircon					90299	0.4707	0.0746	1.2007	1.8626	1.6422	0.1795	0.4665	1064.12	0.93	1058.14	4.57	1067.91	3.28
2	lean = 1063.	5 ± 2.6 Ma,	MSWD = 0	Mean = 1063.5 ± 2.6 Ma, MSWD = 0.81, prob = 0.65															
	Recommend	ded age me	ean = 1063.	age mean = 1063.51 ± 0.39 Ma; Hor	rstworod et al., 2	2016; TIMS													
Plesovice 3 1	Zircon	339.7	<del>.</del>			18.4801	0.5556	0.0520	0.9550	0.3873	1.9125	0.0541	0.5597	339.62	1.12	285.58	15.29	332.43	3.82
Plesovice_3_2	Zircon	338.6	<del>1.</del>	338.6	1.	18.5345	0.5426	0.0536	0.9312	0.3959	1.8866	0.0540	0.5534	338.78		354.41		338.68	3.77
Plesovice_3_3	Zircon	341.4	1.2			18.4091	0.5777	0.0531	1.0348	0.3931	1.9574	0.0544	0.6040	341.42		332.11	14.13	336.62	3.91
Plesovice_3_4	Zircon	338.7	<del>[</del> :	338.7	1.7	18.5536	0.5761	0.0536	0.9053	0.3937	1.8982	0.0540	0.5724	338.81		352.07		337.07	3.80
Plesovice_3_5	Zircon	339.7	<del>[</del> :	339.7	1.	18.4777	0.5837	0.0534	0.8456	0.3957	1.8575	0.0541	0.5758	339.78		343.83		338.54	3.72
Plesovice 3_6	Zircon	340.5	1.1			18.4215	0.5750	0.0532	0.9786	0.3978	1.8971	0.0542	0.5532	340.46	1.1	337.57	13.13	340.08	3.79
	Mean = 339.7	± 1.5 Ma,	MSWD = 0.	Mean = 339.7 ± 1.5 Ma, MSWD = 0.30, prob = 0.92															
Ke	Recommended	age mean	= 337.13 ±	age mean = 337.13 ± 0.37 Ma; Slama et al.	et al., 2008; TIMS														
Temora_3_1	Zircon	416.3	<del>1</del> .3			14.9909	0.6557	0.0540	2.2017	0.4958	2.7610	0.0667	0.6626	416.34		370.96		408.84	5.52
Temora_3_2	Zircon	419.1	1.3	419.1	1.3	14.8957	0.6192	0.0552	1.6067	0.5073	2.2683	0.0672	0.6565	419.16		420.52		416.62	4.54
Temora_3_3	Zircon	416.3	1.5	416.3	1.5	15.0102	0.7368	0.0560	2.3773	0.5089	2.8174	0.0668	0.7630	416.76	1.53	450.53		417.69	5.63
Temora_3_4	Zircon	417.4	4.	417.4	1.4	14.9335	0.6728	0.0560	2.0117	0.5115	2.5376	0.0670	0.6923	417.87		450.36		419.43	2.08
Temora_3_5	Zircon	418.6	1.3	418.6	1.3	14.9010	0.6157	0.0555	1.5982	0.5112	2.2668	0.0671	0.6406	418.81	1.28	432.68		419.29	4.53
Temora 3_6	Zircon	417.1	1.6			14.9846	0.8205	0.0528	2.8434	0.4880	3.2379	0.0668	0.8215	417.09		319.26	40.48	403.51	6.48
	Mean = 417.6	3 ± 2.3 Ma,	MSWD = 0.	Mean = 417.6 ± 2.3 Ma, MSWD = 0.17, prob = 0.97															
	ecommende	d age mea	ın = 416.8 ±	Recommended age mean = 416.8 ±1.1 Ma; Black et al., 2003; TIMS	al., 2003; TIMS														

Appendix G: U-Pb geochronology age standards

Appendix G: U-Pb geochronology age standards

(Ma)   (Mb)	2.8 2.2 2.2 2.2 2.4 1.5 1.6 1.5 1.6 1.5 1.5 1.5 1.4 4.15.8 1.5 1.5 1.5 1.5 1.6 1.5 1.5 1.6 1.5 1.5 1.6 1.5 1.5 1.6 1.5 1.5 1.6 1.5 1.5 1.6 1.5 1.6 1.5 1.6 1.5 1.6 1.5 1.6 1.6 1.6 1.6 1.6 1.6 1.6 1.6 1.6 1.6	417.7 2.2 415.4 1.5 416.9 1.5 1.5 1.6 1063.4 0.4 1063.4 0.4 1069.0 0.9	14.9561 14.9561 14.8390 14.8390 14.8289 14.8289 14.8289 14.8289 14.8286 15.0136 15.0136 15.0455	1.3659 1.1669	natio 0.0532 0.0544	1s% 4.4993 3.3424	ratio 0.4910	1s% 4.7975	ratio 0.0671	1.3774	Age (Ma) 418.54	2s% 2.75	Age (Ma) 336.84		Age (Ma)	è
0 -	2.8 2.2 4.1 2.2 4.1 1.6 1.5 1.6 4.1 1.6 4.1 4.1 4.1 4.1 4.1 4.1 4.1 4.1 4.1 4.1	15.4 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5			0.0532	4.4993	0.4910	4.7975	0.0871	1.3774	418.54	2.75	336.84			2s%
0 -	2.3 2.4 1.7 1.6 1.5 1.5 1.4 1.4 1.4 1.5 1.5 1.6 1.6 1.6 1.6 1.6 1.6 1.6 1.6 1.6 1.6	15.4 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5			0.0544	2 242A	)		0.00				::::	60.52	405.56	09.6
0 -	2.2 2.4 1.7 1.6 1.5 1.5 1.6 1.6 1.6 1.6 1.6 1.6 1.6 1.6	7.7 2.2 [5.4 1.5 [5.9 1.5 ] [6.9 1.5 ] [6.9 1.5 ] [6.9 1.4 ] [6.9				0.0424	0.5075	3.8878	0.0674	1.1601	420.59	2.32	384.74	39.03	416.79	7.78
0 -	2.4 1.5 1.6 1.6 1.7 1.6 1.7 1.4 1.4 1.4 1.6 1.6 1.06 1.06 1.06 1.06 1.06	15.9 1.5 1.5 1.6 1.5 1.5 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4		1.0618	0.0569	2.7812	0.5297	3.4134	0.0671	1.1074	418.60	2.21	487.13	25.20	431.61	6.83
0 -	1.7 1.6 1.5 1.6 1.7 1.4 1.4 1.4 1.4 1.6 1.6 1.0 1.0 1.0 1.0	5.4 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5			0.0521	3.7310	0.4817	4.2181	0.0670	1.1826	417.79	2.37	290.79	58.61	399.27	8.44
0 -	1.6 1.5 1.6 1.5 1.5 1.6 1.6 1.6 1.6 1.6 1.6 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0	1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5			0.0547	2.3633	0.5036	2.6023	0.0675	0.8279	421.29	1.66	398.43	26.58	414.15	5.20
0 -	1.5 4.16 1.5 4.14 1.4 4.18 ND = 0.43, prob = 1.466.8 ± 1.1 Mail Bill MG.B ± 1.1 Mail Bill 106. 106. 106. 106. 106. 106. 106. 106.	5.4 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5			0.0545	2.2092	0.5027	2.4852	0.0674	0.8193	420.28	1.64	389.55	25.46	413.50	4.97
8 0 C T	1.5 1.6 1.4 1.4 1.4 1.6 1.6 1.6 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0	5.9 1.5 0.93 1.4 make et al. 2003; TH 33.2 0.4 33.4 0.4 59.0 0.5			0.0555	1.8636	0.5061	2.2488	0.0666	0.7365	415.58	1.47	430.67	19.28	415.85	4.50
o 2 T	1.6 1.5 1.5 1.5 1.6 1.6 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0	5.9 1.5 1.6 1.9 1.5 1.6 1.5 1.6 1.5 1.6 1.6 1.6 1.6 1.6 1.6 1.6 1.6 1.6 1.6			0.0543	1.9411	0.4940	2.3110	0.0665	0.7443	414.95	1.49	380.45	22.94	407.66	4.62
2 T	1.5 416 1.4 400 = 0.43, prob = 1.46.8 ± 1.1 Mar Ba 1.6.8 ± 1.1 Mar Ba 1.06.7 106.	9.8 1.5 0.93 1.6 0.93 1.6 0.93 1.6 0.93 1.6 0.93 1.6 0.93 1.6 0.9 0.9 0.9 0.9 0.9 0.9 0.9 0.9 0.9 0.9			0.0549	2.0213	0.5021	2.4467	0.0668	0.7773	416.73	1.55	406.68	22.24	413.14	4.89
<b>=</b>	1,4  WD = 0.43, prob = 6  106.8 = 1.4 Mm: BH  106.7 10	98 14 14 1503. THE COLOR OF SECONDS 14 14 15 15 15 15 15 15 15 15 15 15 15 15 15			0.0560	1.9127	0.5113	2.2872	0.0667	0.7524	416.31	1.50	449.55	18.90	419.29	4.57
	416.8 ± 1.1 Mar Big 106.8 ± 1.1 Mar Big 106.7 106.7 105.7 105.7 105.7 105.7 105.7	0.93 more et all, 2003; TII 33.2 0.4 33.4 0.4 59.0 0.5	14.8459	0.6801	0.0559	1.2863	0.5154	1.8493	0.0673	0.6887	420.16	1.38	446.07	12.82	422.09	3.70
	10% 10% 10%	33.2 0.4 33.4 0.4 90.0 0.5	nie nie													
	10 % 10 % 10 6 %		2													
	1067		4 5.5738	0.1549	0.0752	1.8068	1.8484	1.1731	0.1794	0.1481	1063.64	0.30	1071.63	6.77	1062.86	2.35
	105		4 5.5740	0.1549	0.0753	1.9116	1.8530	1.1731	0.1795	0.1481	1063.97	0.30	1075.00	7.14	1064.50	2.35
91500_5_3 Zircon	105		5.5843	0.1549	0.0730	1.7729	1.8234	1.1731	0.1791	0.1481	1061.98	0.30	1012.92	7.09	1053.90	2.35
91500_5_4 Zircon	105/		5.5686	0.1549	0.0749	1.8965	1.8761	1.1731	0.1795	0.1481	1064.44	0.30	1063.99	71.17	1072.70	2.35
	105 <u>(</u>				0.0726	1.2815	1.8138	1.4310	0.1798	0.4655	1065.88	0.93	1003.29	5.18	1050.45	2.86
	106				0.0751	1.3298	1.8633	1.4310	0.1786	0.4655	1059.56	0.93	1070.87	4.99	1068.16	2.86
					0.0755	1.1297	1.8795	1.4310	0.1801	0.4655	1067.66	0.93	1081.98	4.19	1073.89	2.86
					0.0748	1.3487	1.8483	1.4310	0.1790	0.4655	1061.62	0.93	1061.04	5.1	1062.81	2.86
	106.	1069.3 0.9	5.5375		0.0753	1.2355	1.8680	1.4310	0.1805	0.4655	1069.63	0.93	10/6.15	19.4	1069.82	2.86
91500_5_10 Zircon	901			0.4713	0.0744	1.4850	1.8907	01.54.1	0.1794	0.4055	1063.61	5 G	1113.18	5.33	1077.85	08.2
91500_5_11 Zilcon 91500_5_12 Zircon	1053	1053.8 0.9			0.0744	1.2494	18196	1.4310	0.170	0.4655	1056.96	0.93	1066 22	5. t.	1052.55	2.86
	106				0.0755	1.3601	1.8404	1.4310	0.1792	0.4655	1062.44	0.93	1080.73	5.05	1060.02	2.86
			5.5552	0.4713	0.0745	1.2981	1.8263	1.4310	0.1801	0.4655	1067.41	0.93	1055.15	4.95	1054.96	2.86
91500_5_15 Zircon	106	1064.1 0.9		0.4713	0.0752	1.2372	1.8348	1.4310	0.1795	0.4655	1064.48	0.93	1072.72	4.63	1058.01	2.86
	106				0.0766	1.3284	1.8807	1.4310	0.1807	0.4655	1070.88	0.93	1109.01	4.79	1074.31	2.86
	105,				0.0776	1.2369	1.8935	1.4310	0.1790	0.4655	1061.31	0.93	1134.56	4.34	1078.81	2.86
	106;				0.0752	1.1019	1.8406	1.4310	0.1794	0.4655	1063.87	0.93	1071.95	4.13	1060.06	2.86
	106				0.0756	1.4056	1.8701	1.4310	0.1796	0.4655	1064.96	0.93	1082.82	5.21	1070.56	2.86
_	105(	1056.4 0.9			0.0747	1.3105	1.8328	1.4310	0.1781	0.4655	1056.57	0.93	1058.72	4.98	1057.29	2.86
91500 5 21 Zircon	-		5.5623	0.4713	0.0730	1.2727	1.8358	1.4310	0.1799	0.4655	1066.39	0.93	1012.66	5.09	1058.35	2.86
Mean = 1063.5 ± 1.3 Ma, MSWD = 0.72, prob = 0.81	WD = 0.72, prob =		2046- TIME													
recommended age mean = 1000			2													
Plesovice_5_1 Zircon 346.5	1.0 346	346.5 1.0	18.0894	0.4881	0.0537	9008.0	0.4052	1.6511	0.0552	0.4855	346.60	0.97	355.42	10.17	345.41	3.30
	6.0		18.3649	0.4263	0.0533	0.9000	0.4016	1.7051	0.0544	0.4497	341.72	06.0	339.08	12.02	342.82	3.41
Plesovice_5_3 Zircon 335.6	1.1 338	335.6 1.1		0.5510	0.0544	1.0153	0.4035	1.7549	0.0535	0.5574	336.08	1:11	387.74	11.76	344.17	3.51
Plesovice_5_4 Zircon 343.4	1.1		18.2766		0.0531	0.9533	0.4009	1.7243	0.0547	0.5506	343.36	1.10	333.87	12.94	342.28	3.45
Zircon		342.1 1.1			0.0535	0.9250	0.3999	1.7078	0.0545	0.5551	342.22	1.1	350.82	11.92	341.57	3.42
Zircon	1.2		17.9885		0.0532	0.6242	0.3866	1.5586	0.0556	0.5814	348.82	1.16	336.05	8.42	331.88	3.12
Zircon					0.0533	0.8378	0.3973	1.6527	0.0555	0.5723	348.48	1.14	339.93	11.16	339.68	3.31
Zircon		342.9 1.2			0.0550	0.7566	0.4041	1.6245	0.0547	0.5969	343.62	1.19	412.69	8.20	344.62	3.25
Plesovice 5 9 Zircon 345.9 Plesovice 5 1	1.3 346	345.9 1.3	3 18.1270	0.6595	0.0536	0.7269	0.3958	1.6043	0.0551	0.6416	345.94	1.28	351.64	9.35 5.	338.58	3.21
Zircon 339.2	1.1		18.5069	0.5415	0.0531	0.9614	0.3988	1.7113	0.0540	0.5519	339.24	1.10	333.19	13.08	340.78	3.42
Mean = 343.2 ± 2.9 Ma, MSWD = 4.8, prob 0.00	.8, prob 0.00			ı												

Appendix G: U-Pb geochronology age standards

Analysis	Mineral	Pref. Age	Pref. Age	207 cor 206Pb/238U	207 cor 206Pb/238U	238U/206Pb		207Pb/206Pb		207Pb/235U (calc)		206Pb/238U		206Pb/238U		207Pb/206Pb		207Pb/235U (calc)	
		(Ma)	2s%	Age (Ma)	2s%	ratio	18%	ratio	1s%	ratio	18%	ratio	18%	Age (Ma)	2s%	Age (Ma)	2s%	Age (Ma)	2s%
Temora_5_1	Zircon	415.7	1.7			15.0964	0.8602	0.0525	3.8251	0.4857	3.8528	0.0666	0.8664	415.69	1.73	307.78	26.60	401.96	7.71
Temora_5_2	Zircon	416.4	4.8	416.4	1.8	15.0112	0.8470	0.0558	3.4092	0.5177	3.5216	0.0668	0.8935	416.76	1.79	444.14	34.13	423.59	7.04
Temora_5_3	Zircon	418.1	1.3			14.9123	0.6261	0.0543	1.6322	0.5042	2.2068	0.0670	0.6495	418.13	1.30	383.24	19.14	414.56	4.41
Temora_5_4	Zircon	419.6	1.2			14.8631	0.5758	0.0547	1.2612	0.5063	1.9001	0.0672	0.5876	419.56	1.18	397.85	14.21	415.97	3.80
Temora_5_5	Zircon	415.1	1.4			15.0341	0.6726	0.0543	1.9858	0.4949	2.4171	0.0665	0.7039	415.15	1.41	382.98	23.30	408.24	4.83
Temora_5_6	Zircon	420.5	1.3			14.8466	0.6219	0.0540	1.6377	0.4964	2.1886	0.0674	0.6276	420.50	1.26	371.80	19.83	409.29	4.38
Temora_5_7	Zircon	423.9	1.6			14.7266	0.8079	0.0552	3.0086	0.5116	3.3579	0.0680	0.8048	423.91	1.61	419.23	32.05	419.50	6.72
Temora_5_8	Zircon	422.0	1.3			14.7960	0.6311	0.0540	1.7035	0.4971	2.2039	0.0677	0.6292	422.00	1.26	369.86	20.75	409.72	4.41
Temora_5_9	Zircon	422.5	1.2			14.7516	0.5851	0.0550	1.3886	0.5111	2.0223	0.0677	0.6051	422.50	1.21	412.74	15.04	419.21	4.04
Temora 5_10	Zircon	411.0	1.4	411.0	1.4	15.1785	0.6962	0.0556	2.2322	0.5092	2.6335	0.0659	0.7143	411.30	1.43	435.37	22.83	417.88	5.27
_	Mean = 418.8	± 2.8 Ma,	MSWD = 1.	Mean = 418.8 ± 2.8 Ma, MSWD = 1.8, prob = 0.065															
- 2	ecommende	d age mea	n = 416.8 ±	ecommended age mean = 416.8 ±1.1 Ma: Black et al., 2003; TIMS	al., 2003; TIMS														

Appendix G: U-Pb geochronology age standards

Analysis	Mineral	207cor 206Pb/238U	207cor 206Pb/238U	238U/206Pb		207Pb/206Pb		207Pb/235U		206Pb/238U		206Pb/238U		207Pb/206Pb		207Pb/235U (calc)	
		Age (Ma)	2s%	ratio	1s%	ratio	1s%	ratio	1s%	ratio	1s%	Age (Ma)	2s%	Age (Ma)	2s%	Age (Ma)	2s%
Durango_1_1	Apatite	36.5	16.9	131.2153	6.4812	0.2474	12.8837		11.2231	0.0076	6.5128	48.89	13.03	3167.36	12.90	234.63	22.45
Durango_1_2	Apatite	25.4	24.8	144.7054	9666.9	0.3859	11.9459	0.3680	9.7648	0.0069	7.0220	44.49	14.04	3854.30	9.35	318.18	19.53
Durango_1_3	Apatite	29.9	16.5	152.4836	9.4344	0.2775	11.4178	0.2503	9.8069	0.0066	5.9894	42.13	11.98	3348.02	10.66	226.85	19.61
Durango_1_4	Apatite	30.8	13.5	163.8479	5.5193	0.2190	11.2808	0.1845	9.9710	0.0061	5.4227	39.33	10.85	2972.89	12.23	171.92	19.94
Durango_1_5	Apatite	33.2	10.2	151.4103	4.6310	0.2209	8.4315	0.2024	7.4492	0.0066	4.0917	42.58	8.18	2986.69	60.6	187.15	14.90
Durango_1_6	Apatite	33.3	12.2	138.6200	4.4812	0.2702	8.6005	0.2697	7.4145	0.0072	4.4966	46.38	8.99	3306.76	8.16	242.44	14.83
Durango_1_7	Apatite	37.8	10.7	138.2219	4.4916	0.1896	9.8980	0.1875	8.8765	0.0072	4.5092	46.11	9.05	2737.95	11.89	174.50	17.75
Durango_1_8	Apatite	34.1	13.0	137.1517	4.9007	0.2615	9.5160	0.2624	8.2323	0.0073	4.8848	46.75	9.77	3254.82	9.21	236.61	16.46
Durango_1_9	Apatite	32.6	11.5	149.5504	4.4648	0.2373	8.6101	0.2180	7.5439	0.0067	4.6661	42.93	9.33	3101.38	8.82	200.22	15.09
Mean = 33.4 ± 2.1 Ma, MSWD = 1.4, prob = 0.20	Ma, MSWD =	1.4, prob = 0.20			_												
Recommended age mean = 31.44 ± 0.18; McDowell et al.	te mean = 31	44 ± 0.18; McDow	ell et al., 2005; Ar	Ar-Ar													
4 4	Q+# C4	15047	7	603	92030	9000	2 2664	000	0 5263	0000	03030	1602.20	40	1507.00	00	100 001	40.
00000	Apante	7.180	-	0.0093	0.3376	0.0900	2.2001	3.9031	0.3263	0.2802	0.3239	1392.20	50:	1397.00	0.00	1393.01	S .
OD306_1_2	Apatite			3.5264	0.5376	0.0986	2.1635	3.8494	0.5263	0.2834	0.5259	1608.44	1.05	1596.70	90.9	1603.15	1.05
OD306_1_3	Apatite	1593.0	<del>-</del> -	3.5678	0.5376	0.0986	2.2932	3.8070	0.5263	0.2804	0.5259	1593.33	1.05	1596.26	5.36	1594.24	1.05
OD306_1_4	Apatite	1591.0	1.7	3.5716	0.5376	0.0986	2.1102	3.8031	0.5263	0.2800	0.5259	1591.57	1.05	1596.55	4.93	1593.41	1.05
OD306_1_5	Apatite	1590.5	1.7	3.5720	0.5376	0.0985	1.7076	3.8024	0.5263	0.2799	0.5259	1591.07	1.05	1595.99	3.99	1593.25	1.05
OD306_1_6	Apatite	1589.2	1.1	3.5739	0.5376	0.0986	1.8286	3.7993	0.5263	0.2797	0.5259	1589.95	1.05	1596.67	4.28	1592.60	1.05
OD306_1_7	Apatite			3.5389	0.5376	0.0986	1.8176	3.8379	0.5263	0.2826	0.5259	1604.63	1.05	1596.38	4.25	1600.74	1.05
OD306_1_8	Apatite	1596.0	1.2	3.5593	0.5894	0.0986	1.3531	3.8241	0.6119	0.2810	0.5883	1596.15	1.18	1596.53	3.16	1597.82	1.22
OD306_1_9	Apatite			3.5510	0.5894	0.0986	1.1462	3.8337	0.6119	0.2817	0.5883	1599.81	1.18	1596.10	2.68	1599.85	1.22
OD306_1_10	Apatite			3.5220	0.5894	0.0986	1.3756	3.8639	0.6119	0.2839	0.5883	1611.09	1.18	1596.25	3.22	1606.18	1.22
OD306_1_11	Apatite	1582.3	1.2	3.5913	0.5894	0.0986	1.3115	3.7891	0.6119	0.2784	0.5883	1583.54	1.18	1596.10	3.07	1590.45	1.22
OD306_1_12	Apatite	1595.5	1.2	3.5598	0.5894	0.0985	1.5074	3.8191	0.6119	0.2808	0.5883	1595.59	1.18	1595.99	3.53	1596.79	1.22
OD306_1_13	Apatite	1592.7	1.2	3.5651	0.5894	0.0986	1.3587	3.8119	0.6119	0.2803	0.5883	1593.06	1.18	1596.23	3.18	1595.25	1.22
OD306_1_14	Apatite	1595.1	1.2	3.5623	0.5894	0.0986	1.3277	3.8138	0.6119	0.2808	0.5883	1595.29	1.18	1596.32	3.10	1595.66	1.22
OD306_1_15	Apatite	1593.9	1.2	3.5646	0.5894	0.0986	1.5610	3.8104	0.6119	0.2806	0.5883	1594.15	1.18	1596.17	3.65	1594.95	1.22
OD306_1_16	Apatite	1581.6	1.2	3.5943	0.5894	0.0985	1.3821	3.7733	0.6119	0.2783	0.5883	1582.84	1.18	1595.80	3.23	1587.09	1.22
OD306_1_17	Apatite	1590.2	1.2	3.5717	0.5894	0.0985	1.8632	3.7938	0.6119	0.2799	0.5883	1590.76	1.18	1595.90	4.36	1591.44	1.22
OD306_1_18	Apatite			3.5318	0.5894	0.0985	1.4748	3.8313	0.6119	0.2831	0.5883	1607.09	1.18	1595.87	3.45	1599.34	1.22
OD306_1_19	Apatite			3.5467	0.5894	0.0985	1.3063	3.8144	0.6119	0.2820	0.5883	1601.23	1.18	1595.92	3.06	1595.78	1.22
Mean = 1595.8 ± 4.0 Ma, MSWD = 0.75, prob = 0.77	O Ma, MSWE	0 = 0.75, prob = $0.7$	77														
Recommended age Concordia intercept = 1595.9 ± 5.9 Ma; Thompson et al., 2016; MC-1CP-MS	e Concordia	intercept = 1595.9	9 ± 5.9 Ma; Thon	ipson et al., 2016	, MC-ICP-MS												
401 1 1	Apalite	530.6	e	11 4615	16156	0.0705	4 8675	0.8467	4 7607	0.0871	1.6246	538.59	3.25	943.19	21.14	622.86	9.52
401 1 2	Apatite	533.6	3.3	11.4552	1.6385	0.0684	5.0095	0.8241	4.9001	0.0874	1.6471	540.16	3.29	880.91	23.52	610.35	9.80
401_1_3	Apatite	535.2	3.3	11.4722	1.6158	0.0642	5.0791	0.7707	4.9771	0.0872	1.6246	539.04	3.25	745.99	28.78	580.17	9.92
401_1_4	Apatite	522.9	3.3	11.6624	1.6129	0.0692	4.8990	0.8178	4.7930	0.0857	1.6224	530.09	3.24	904.75	22.32	606.83	9.59
401_1_5	Apatite	531.6	2.4	11.3508	1.1775	0.0788	3.4517	0.9597	3.4310	0.0882	1.1937	544.96	2.39	1166.16	11.73	683.14	98.9
401_1_6	Apatite	531.6	2.4	11.5155	1.2020	0.0663	3.4763	0.7953	3.5154	0.0869	1.2069	536.88	2.41	816.08	17.80	594.20	7.03
401_1_7	Apatite	550.2	2.7	11.2049	1.3535	0.0594	4.2418	0.7321	4.1606	0.0892	1.3707	550.76	2.74	579.70	31.79	92.76	8.32
401_1_8	Apatite	528.4	2.4	11.6309	1.1892	0.0631	3.4953	0.7465	3.4447	0.0860	1.1906	531.58	2.38	709.31	20.95	566.22	6.89
401_1_9	Apatite	528.9	2.5	11.6040	1.2105	0.0640	3.5709	0.7581	3.5143	0.0862	1.2428	532.73	2.49	742.20	20.35	572.92	7.03
Mean = 532.4 ± 4.8 Ma, MSWD = 0.96, prob = 0.46	3 Ma, MSWD	= 0.96, prob $= 0.46$			_												
Recommended age Concordia intercept = 530,3 ± 1.4 Ma; Thompson et al.,	ge Concordia	intercept = 530.3	± 1.4 Ma; I nom	oson et al.,													
0107					_												

Appendix G: U-Pb geochronology age standards

Analysis	Mineral	207cor	207 cor 206 Dh/23 RH	2381 I/206Ph		207Ph/206Ph		207Pb/235U		1185 <i>6/</i> 4d906		118E0/93811		207Ph/206Ph		207Pb/235U	
	5	Age (Ma)	25%	ratio	18%	ratio	1s%	ratio	15%	ratio	15%	Age (Ma)	2s%	Age (Ma)	2s%	Age (Ma)	2s%
McClure_1_1	Apatite	514.7	3.8	9.3995	1.6054		2.8731	3.4375	2.9026	0.1063	1.6335	620.99	3.27	3084.06	2.97	1513.02	5.81
McClure_1_2	Apatite	546.0	3.3	9.9377	1.5144	0.1563	3.3332	2.1619	3.2562	0.1005	1.5312	617.10	3.06	2415.00	4.69	1168.87	6.51
McClure_1_3	Apatite	521.4	3.3	10.2313	1.3816	0.1708	2.8859	2.3050	2.6221	0.0978	1.5479	601.74	3.10	2565.17	3.76	1213.81	5.24
McClure_1_4	Apatite	537.9	3.1	10.2830	1.4637		3.1229	1.9341	3.0264	0.0973	1.4664	598.64	2.93	2278.84	4.72	1092.95	6.05
McClure_1_5	Apatite	534.9	2.1	10.2357	1.0066		1.9035	2.0389	1.8708	0.0977	1.0109	600.82	2.02	2358.14	2.76	1128.59	3.74
M-Clure_1_6	Apatite	527.8	2.3	8.8419	1.9757	0.2582	1.4252	4.0334	1.5034	0.1132	0.9769	591.03	1.95	3234.77	95. C	1640.95	3.01 4.01
McClure_1_/	Apallie	5.75.0	5. c. c.	0.0003	944.5		2.2023	7 8662	2.0607	0.1134	1.3312	633 10	2010	3307.09	20.8	1373 84	4. r 7. r
McClure 1 9	Apatite	522.3	i -	10.6516	0.8907	0.1401	1.5982	1.8090	1.8212	0.0939	0.8945	578.55	1.79	2228.13	2.48	1048.73	. s.
Mean = 528.4 ±	E 6.3 Ma, MSW	Mean = 528.4 ± 6.3 Ma, MSWD = 1.3, prob = 0.22															
Recommender	d age mean =	Recommended age mean = 523.98 ± 0.12 Ma; Schoene	Schoene and E	and Bowring, 2006													
Durango_2_1	Apatite	41.4	16.6	124.7337	6.8539	0.2022	14.6894	0.2241	13.1181	0.0080	6.8828	51.45	13.77	2843.50	16.84	205.36	26.24
Durango_2_2	Apatite	35.8	17.9	151.0769	7.7082		17.2939	0.1635	15.6113	0.0067	7.6701	42.87	15.34	2637.38	21.78	153.78	31.22
Durango_2_3	Apatite	32.1	17.7	150.9105	6.8640	0.2430	13.7297	0.2206	12.0156	0.0066	6.8885	42.62	13.78	3138.82	13.90	202.38	24.03
Durango_2_4	Apatite	30.8	13.2	144.3344	4.8078	0.2866	8.8430	0.2709	7.5946	0.0069	4.7552	44.18	9.51	3398.62	8.10	243.40	15.19
Durango_2_5	Apatite	31.6	11.8	156.5581	5.5227	0.2290	9.4840	0.2026	8.3662	0.0064	4.7291	41.01	9.46	3044.17	96.6	187.32	16.73
Durango_2_6	Apatite	34.2	12.6	136.8102	4.9116	0.2574	9.2363	0.2571	8.0391	0.0073	4.7775	46.62	9.55	3230.30	9.02	232.31	16.08
Durango 2 7	Apatite	34.6	13.2	127.7390	4.3101	0.2940	7.8937	0.3170	6.7733	0.0078	5.0326	50.23	10.07	3438.02	7.13	279.62	13.55
Mean = 34.0 ± Recommended	1.8 Ma, MSW	Mean = 34.0±1.8 Ma, MSWD = 1.6, prob = 0.13 Recommended age mean = 31.44 ± 0.18 Ma; McDowell et al.	cDowell et al.,	2005; Ar-Ar	_												
McClure_2_1	Apatite	545.4	4.8	8.8946	1.9476	0.2355	3.3980	3.6565	3.1507	0.1124	2.1022	686.73	4.20	3088.97	3.51	1561.94	6.30
McClure_2_2	Apatite	524.9	4.1	10.0928	1.8516	0.1763	3.6979	2.4108	3.5702	0.0992	1.8484	609.52	3.70	2618.05	4.70	1245.83	7.14
McClure_2_3	Apatite	549.6	4.2	9.3691	1.8970	0.1956	3.2730	2.8695	3.2359	0.1068	1.8990	654.16	3.80	2789.45	3.84	1373.95	6.47
McClure_2_4	Apatite	543.0	2.9	9.6715	1.3351	0.1821	2.1507	2.5987	2.2798	0.1035	1.3509	634.65	2.70	2671.09	2.67	1300.28	4.56
McClure_2_5	Apatite	529.5	3.3	9.8715	1.4451	0.1850	2.3885	2.5824	2.5045	0.1013	1.5433	621.89	3.09	2697.16	2.92	1295.67	5.01
McClure_2_6	Apatite	533.7	2.8	9.2835	1.2718	0.2219	1.7032	3.2956	1.8133	0.1077	1.2680	659.62	2.54	2994.14	1.83	1480.01	3.63
McClure 2 7	Apatite	513.8	4.0	8.4000	1.5666	0.3083	2.2247	5.0488	2.1501	0.1189	1.5968	724.44	3.19	3511.55	1.96	1827.55	4.30
Mean = 532.9 1	1 age mean =	Mean = 532.9 ± 6.9 Ma, MSWD = 1.6, prob = 0.13 Recommended age mean = 523.98 ± 0.12 Ma: Sc	shoene and	Bowring, 2006													
9000	o titora v	1528 2	c	0000	5	9000	2000	0307.0	4 0745	7777	000	1570 04	5	4606.00	9	10000	4
OD306 2 2	Anatite	3.070	0.7	3.5382	0113		2.2031	3.8521	1.0745	0.2777	0.9942	1603.51	6 6	1597 48	4.88	1603.71	2 5
OD306 2 3	Apatite			3.5416	1.0113		2.1200	3.8400	1.0745	0.2822	0.9942	1602.47	1.99	1596.68	4.96	1601.17	2.15
OD306_2_4	Apatite			3.5518	1.0113		2.1539	3.8326	1.0745	0.2817	0.9942	1599.89	1.99	1596.40	5.04	1599.63	2.15
OD306_2_5	Apatite	1592.0	2.0	3.5681	1.0113	0.0986	2.4946	3.8005	1.0745	0.2802	0.9942	1592.39	1.99	1596.12	5.83	1592.86	2.15
OD306_2_6	Apatite			3.5432	1.0113	0.0986	2.0290	3.8294	1.0745	0.2823	0.9942	1603.02	1.99	1596.17	4.75	1598.95	2.15
OD306_2_7	Apatite	1569.2	2.0	3.6209	1.0113	0.0986	2.6685	3.7307	1.0745	0.2761	0.9942	1571.58	1.99	1596.37	6.24	1577.98	2.15
OD306_2_8	Apatite			3.5131	1.0113	0.0986	2.2336	3.8470	1.0745	0.2846	0.9942	1614.33	1.99	1596.06	5.22	1602.64	2.15
OD306_2_9	Apatite			3.5558	0.9279	0.0986	1.6570	3.8222	0.9046	0.2813	0.9160	1598.01	1.83	1596.17	3.88	1597.42	1.81
OD306_2_10	Apatite			3.5360	0.9279	0.0986	1.4208	3.8415	0.9046	0.2827	0.9160	1605.18	1.83	1596.26	3.32	1601.48	1.81
OD306_2_11	Apatite	1572.8	1.8	3.6122	0.9279		1.4846	3.7610	0.9046	0.2767	0.9160	1574.83	1.83	1595.86	3.47	1584.46	1.81
OD306_2_12	Apatite			3.5515	0.9279		1.2947	3.8267	0.9046	0.2816	0.9160	1599.31	1.83	1595.77	3.03	1598.39	1.81
OD306_2_13	Apatite			3.5482	0.9279		1.3288	3.8302	0.9046	0.2819	0.9160	1600.76	1.83	1596.22	3.11	1599.11	1.81
OD306_2_14	Apatite			3.5213	0.9279	0.0986	1.4957	3.8575	0.9046	0.2839	0.9160	1610.73	1.83	1596.22	3.50	1604.84	1.81
OD306_2_15	Apatite	1581.0	1.8	3.5931	0.9279	0.0985	1.3334	3.7775	0.9046	0.2782	0.9160	1582.32	1.83	1595.87	3.12	1587.97	1.81
OD306_2_16	Apatite	1576.0	1.8	3.6079	0.9279	0.0985	1.2599	3.7655	0.9046	0.2773	0.9160	1577.80	1.83	1595.95	2.95	1585.43	1.81
OD306_2_17	Apatite			3.5264	0.9279	0.0985	1.5612	3.8434	0.9046	0.2834	0.9160	1608.67	1.83	1595.79	3.65	1601.88	1.81
OD306_2_18	Apatite			3.5476	0.9279	0.0986	1.3568	3.8236	0.9046	0.2820	0.9160	1601.18	1.83	1596.13	3.17	1597.73	1.81
Mean = 1595.7	± 7.0, MSWD	Mean = 1595.7 ± 7.0, MSWD = 0.74, prob = 0.77	77														
Recommended	d Concorida i	Recommended Concorida intercept age = 1595.9 ± 5.9 Ma; Thompson et al., 2016; MC-	95.9 ± 5.9 Ma; Ti	hompson et al., \$	2016; MC-ICE	-MS											

Appendix G: U-Pb geochronology age standards

1456   October   October   October		:	20 / cor 206Pb/238	206Pb/238	238U/206P		207 Pb/206P		207Pb/235		206Pb/238				207Pb/206P		207Pb/235U	
1.2   1.1.2559   1.2571   0.0074   2.5867   0.0286   5.5759   0.0287   1.2615   5.5268   3.566   4.15   0.0287   4.14   4.14   4.15   5.5268   4.15   4.15   4.14   4.15   4.15   4.14   4.14   4.15	Analysis	Mineral	0	0 2-6	b -	4-0/	D -#	4-0/	U (calc)	70-7	O .	4-0/	206Pb/238U	/0-0	b	/0-0	(calc)	/0-0
1,			Age (Ma)		ratio	15%		1870		1870		1870	Age (Ma)	25%	Age (Ma)	%S7/	Age (Ma)	75.0
1.1   1.1	401_2_1	Apatite	530.5	3.0	11.3859	1.9281	0.0774	5.0497	0.9398	5.0059	0.0879	1.9315	542.88	3.86	1130.69	17.79	672.78	10.01
1,1900   1	404.0.2	Apatile	242.3	2.4	11.30 14	1.9355	0.038	5.7150	0.7245	5.00.0	0.0879	2.134	243.24	4.27	292.83	4 1.30	993.34	5.50
11   11   12   12   12   12   13   13	401 2 3	Apatite	544.0	- 4	11.3053	45.0.24	0.0626	0.1000	0.7330	9.0934	0.0000	4 6304	536.00	5 6	224.00	40.47	504 47	7 07
1   1   1   1   1   1   1   1   1   1	404	Apatite	1 6 2 3	 	11.2778	1,000	0.0000	1.00.4	0.7100	4.4067	00000	1,535	542.52	3.50	560 78	23.47	540.06	9 6
1   1   1   1   1   1   1   1   1   1	401.26	Apatite	730.8	- o	11 5943	1.3033	0.0391	4.3830	0.7180	4.1010	0.0860	1.07.50	532.05	5 c	651.65	26.30	049.90	0.0 a
13   15   15   15   15   15   15   15	401.2.7	Apatite	538.4	0.00	11.3718	14762	0.0666	3.7834	0.8086	3.7718	0.0880	1.4668	543.78	2.93	823.15	19 19	601.67	7.54
1.2   1.2	Mean = 537.8	± 6.5. MSWD =	0.44. prob = 0.85					5		3				3		2	8	
	Recommende	d Concordia i	ntercent age = 530	3 + 1 4 Mar Tho	mnson et al. 20	16	_											
3.4 patte         3.5 patte <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td>_</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>							_											
3.2 positive         3.20 posi	Durango 3 1	Apatite	33.6	9.6	153.5509	3.7662	0.2006	8.0754	0.1796	7.2179	0.0065	4.0818	41.69	8.16	2830.22	9.31	167.75	14.44
3.4 Aparte 212 (115) (11	Durango 3 2	Apatite	35.0	13.7	127.1305	4.8524	0.2869	9.1626	0.3088	7.8393	0.0078	4.8873	50.18	9.77	3399.97	8.39	273.24	15.68
3.4   Aparte   2.5   2	Durango_3_3	Apatite	31.2	11.2	165.9978	4.6150	0.2005	9.9110	0.1663	8.8428	0.0060	4.6361	38.77	9.27	2829.83	11.43	156.22	17.69
	Durango 3 4	Apatite	32.8	10.2	151.9488	4.0754	0.2232	8.4192	0.2016	7.4368	0.0066	4.0996	42.21	8.20	3003.38	9.01	186.52	14.87
Apartie   512.6   2.6   11.2012   1.2068   0.0647   3.8543   0.7900   3.8000   0.0885   1.2282   5.6656   2.60   7763.76   2.185   2.164   2.1014   2.2023	Mean = 33.1 ±	1.7 Ma, MSWI	0 = 0.71, prob = $0.5$	35		_												
Apartie   554.8   52.6   11,2927   12,988   0.0647   3,9853   0.7940   3,8306   0.0845   12,982   0.0870   3,8307   0.7941   3,8240   0.0872   12,882   0.0872   3,8000   0.7941   3,8241   0.0872   12,820   0.9872   2,95   778 54   21,01   2,9484   2,948	Recommende	d age mean =	31.44 ± 0.18 Ma; M	IcDowell et al.,	2005; Ar-Ar													
Apathe   SSA 6   26   114622   12768   0 10652   3 8903   0 77841   3 8241   0 0872   1 2800   5 95 23   2 56   778 54   2 10 1070   2 2 2 114612   1 2944   0 1087   2 2 2 1 2 2 1 2 2 2 2 2 2 2 2 2 2 2 2	401_3_1	Apatite	542.5	2.6	11.2927	1.2968	0.0647	3.9553	0.7900	3.9306	0.0885	1.2982	546.55	2.60	763.76	21.83	591.15	7.86
Apartie   State   St	401 3 2	Apatite	534.8	2.6	11.4582	1.2768	0.0652	3.8903	0.7841	3.8241	0.0872	1.2820	539.23	2.56	778.54	21.01	587.80	7.65
0.0615         3.8972         0.7301         3.8382         0.0862         1.3005         533.14         2.60         656.17         25.48           0.1422         2.0013         1.8589         2.0245         0.0948         1.0643         583.79         2.13         2253.25         3.07           0.2873         1.4812         2.4173         1.8905         0.1142         1.2101         697.00         2.42         3292.91         1.78           0.2873         1.4812         3.4079         1.6484         0.1068         0.9841         648.03         1.97         3091.08         1.78           0.2874         1.6876         0.1485         0.1068         0.1486         0.1069         1.2401         68070         2.42         3292.91         1.78           0.2874         1.6876         0.1687         0.1683         1.6880         0.1680         1.72         1.78         1.72           0.0986         1.6771         1.8963         1.24         1586.29         1.72         1.72           0.0986         1.6771         0.2789         0.6215         1.6943         1.24         1596.29         1.72           0.0986         1.6731         3.7957         0.6305         0.228	401_3_3	Apatite	533.7	2.5	11.4986	1.2502	0.0657	3.6017	0.7882	3.5514	0.0871	1.2548	538.51	2.51	796.06	18.97	590.16	7.10
0.1422         2.0013         1.8589         2.0245         0.0948         1.0643         583.79         2.13         2253.25         3.07           0.2679         1.8697         4.2173         1.8905         0.1142         1.2101         697.00         2.42         3222.91         1.78           0.2343         1.4412         3.4127         1.4865         0.1068         0.9941         648.03         1.97         3081.08         1.49           0.2287         1.6367         3.4079         1.6484         0.1068         0.9941         648.03         1.97         3081.08         1.49           0.0986         1.637         3.7883         0.6305         0.2790         0.6215         1663.22         2.20         3042.28         1.72           0.0986         1.6471         3.8461         0.6305         0.22832         0.6215         1697.26         1.24         1596.29         3.85           0.0984         1.6234         3.8249         0.6305         0.22815         1681         1.24         1596.29         3.86           0.0986         1.6371         3.7897         0.6305         0.2281         1.628         1.24         124         1596.29         3.75           0.	401 3 4	Apatite	531.0	2.6	11.6112	1.2994	0.0615	3.8972	0.7301	3.8382	0.0862	1.3005	533.14	2.60	656.17	25.48	556.61	7.68
0.1422         2.0013         1.8689         2.0245         0.0948         1.0643         583.79         2.13         2255.325         3.07           0.2679         1.8897         4.2173         1.8906         0.1142         1.2101         697.00         2.42         3292.91         1.78           0.2343         1.4412         3.4079         1.6484         0.1063         1.9841         648.03         1.97         3041.08         149           0.2287         1.6367         3.4079         1.6484         0.1063         1.9893         663.02         2.20         3042.28         1.72           0.0966         1.6371         3.4079         1.6484         0.1063         1.6983         663.02         2.20         3042.28         1.72           0.0966         1.6371         3.4079         0.6306         0.2790         0.6215         1697.26         1.24         1596.29         3.87           0.0984         1.6471         3.8461         0.6306         0.2816         0.6215         1697.26         1.24         1596.29         3.86           0.0986         1.6471         3.8490         0.6306         0.2281         0.6215         1697.36         1.24         1593.61         3.75	Mean = 535.2	± 6.7 Ma, MSV	VD = 0.61, prob = 0.	.61														
0.1422         2.0013         1.8689         2.0245         0.0948         1.0643         583.79         2.13         2253.25         3.07           0.2473         1.8897         4.2173         1.8905         0.142         1.2101         697.00         2.42         3222.91         1.78           0.2343         1.4412         3.4127         1.4865         0.1058         0.9841         648.03         1.97         3081.08         1.49           0.2287         1.6367         1.6484         0.1058         0.9841         648.03         1.97         3081.08         1.49           0.0986         1.637         3.4079         1.6484         0.1068         0.2841         648.03         1.97         3042.28         1.72           0.0986         1.6471         3.4671         0.6305         0.2832         0.6215         1586.23         1.24         1596.29         3.87           0.0984         1.6234         3.8249         0.6305         0.2283         0.6215         1697.86         1.24         1596.29         3.85           0.0986         1.6371         3.7887         0.6305         0.2281         0.6215         1697.86         1.24         1596.46         3.75 <t< th=""><th>Recommende</th><th>d Concordia i</th><th>ntercept age = 530</th><th>.3 ± 1.4 Ma; The</th><th>ompson et al., 20</th><th>116</th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th></t<>	Recommende	d Concordia i	ntercept age = 530	.3 ± 1.4 Ma; The	ompson et al., 20	116												
0.2879         1.8867         4.2173         1.8906         0.1142         1.2101         697.00         2.42         3292.91         1.78           0.2343         1.4412         3.4127         1.4855         0.1058         0.9841         648.03         1.97         3081.08         1.49           0.2287         1.6367         3.4127         1.4855         0.1058         0.9841         648.03         1.97         3042.28         1.72           0.0986         1.637         3.7883         0.6305         0.22832         0.6215         1586.23         1.24         1596.29         3.87           0.0984         1.6274         3.8461         0.6305         0.22832         0.6215         1699.56         1.24         1596.29         3.85           0.0984         1.6274         3.8461         0.6305         0.22832         0.6215         1697.56         1.24         1596.29         3.85           0.0986         1.6374         3.8460         0.6305         0.2281         0.6215         1697.46         1.24         1596.46         3.75           0.0986         1.5628         0.6305         0.2283         0.6215         1695.44         1.24         1596.46         3.75	McClure 3 1	Apatite	526.0	2.2	10.5402	1.0598	0.1422	2.0013	1.8589	2.0245	0.0948	1.0643	583.79	2.13	2253.25	3.07	1066.60	4.05
0.2343         1.4412         3.4127         1.4855         0.1058         0.9841         648.03         1.97         3081.08         1.49           0.2287         1.6367         3.4079         1.6484         0.1083         1.0983         663.02         2.20         3042.28         1.72           0.0986         1.6530         3.7883         0.6305         0.22832         0.6215         1586.23         1.24         1596.29         3.87           0.0984         1.6274         3.8461         0.6305         0.22832         0.6215         1607.26         1.24         1596.29         3.85           0.0984         1.6274         3.8461         0.6305         0.22832         0.6215         1.64         1.596.29         3.86           0.0986         1.6071         3.6075         0.6215         1690.56         1.24         1596.29         3.85           0.0986         1.6071         0.6215         1690.76         1.24         1596.29         3.75           0.0986         1.5528         0.6205         0.2281         0.6215         1584         1.24         1596.46         3.75           0.0986         1.5528         0.6205         0.2281         0.6215         1584	McClure 3 2	Apatite	527.0	3.0	8.7481	1.2025	0.2679	1.8697	4.2173	1.8905	0.1142	1.2101	697.00	2.42	3292.91	1.78	1677.39	3.78
0.2287         1.5867         3.4079         1.6484         0.1083         1.0983         663.02         2.20         3042.28         1.72           0.0986         1.6530         3.7883         0.6305         0.22832         0.6215         1566.23         1.24         1596.29         3.87           0.0984         1.6271         3.8461         0.6305         0.22832         0.6215         1607.26         1.24         1596.29         3.85           0.0984         1.6271         3.8461         0.6305         0.22816         0.6215         1.647         1.24         1596.29         3.85           0.0984         1.6274         3.8460         0.6305         0.2281         0.6215         1.647         1.24         1596.29         3.85           0.0986         1.6374         3.7897         0.6305         0.2281         0.6215         1.607.18         1.24         1596.46         3.75           0.0986         1.5528         0.8305         0.2287         0.6215         1.607.41         1.24         1596.46         3.75           0.0986         1.5528         3.840         0.6305         0.2287         0.6215         1.607.41         1.24         1597.89         3.77	McClure_3_3	Apatite	514.3	2.3	9.4610	0.9798	0.2343	1.4412	3.4127	1.4855	0.1058	0.9841	648.03	1.97	3081.08	1.49	1507.32	2.97
0.0986         1.6530         3.7883         0.6306         0.2790         0.6215         1586.23         1.24         1596.29         3.87           0.0986         1.6471         3.461         0.6306         0.2892         0.6215         1607.26         1.24         1596.29         3.87           0.0984         1.6234         3.8249         0.6306         0.2863         0.6215         1607.26         1.24         1593.61         3.80           0.0984         1.2793         3.7957         0.6306         0.2785         0.6215         1607.18         1.24         1593.61         3.80           0.0986         1.5737         3.7890         0.6306         0.2283         0.6215         1607.18         1.24         1593.65         3.00           0.0986         1.5528         3.8400         0.6305         0.2283         0.6215         1607.14         1.24         1596.46         3.75           0.0986         1.5528         3.840         0.6305         0.2282         0.6215         1605.44         1.24         1596.95         3.68           0.0986         1.5528         3.840         0.6305         0.2287         0.6215         1605.44         1.24         1597.80         3.61	McClure 3 4	Apatite	531.2	2.5	9.2616	1.0597	0.2287	1.6367	3.4079	1.6484	0.1083	1.0983	663.02	2.20	3042.28	1.72	1506.21	3.30
0.0986         1.6530         3.7883         0.6305         0.2790         0.6215         1586.23         1.24         1596.29         3.87           0.0986         1.6471         3.8461         0.6305         0.22822         0.6215         1607.26         1.24         1596.29         3.85           0.0984         1.6234         3.8249         0.6305         0.2286         0.6215         1599.56         1.24         1593.61         3.80           0.0986         1.2793         3.7957         0.6305         0.22845         0.6215         1588.80         1.24         1593.65         3.00           0.0986         1.6737         3.7890         0.6305         0.2283         0.6215         1697.18         1.24         1593.65         3.00           0.0986         1.6737         3.7890         0.6305         0.2283         0.6215         1697.41         1.24         1593.65         3.68           0.0986         1.5622         3.7890         0.6305         0.2283         0.6215         1695.44         1.24         1596.46         3.75           0.0986         1.5862         3.7890         0.6305         0.2287         0.6215         1694.74         1.24         1595.99         3.63 </td <td>Mean = 522.4</td> <td>± 6.2 Ma, MSV</td> <td>VD = 1.4, prob = 0.2</td> <td>23</td> <td></td> <td>_</td> <td></td>	Mean = 522.4	± 6.2 Ma, MSV	VD = 1.4, prob = 0.2	23		_												
0.0966         1.6530         3.7883         0.6306         0.2790         0.6215         1586 23         1.24         1596 29         3.87           0.0986         1.6471         3.8461         0.6305         0.2832         0.6215         1607.26         1.24         1596.29         3.85           0.0984         1.5234         3.8249         0.6305         0.2816         0.6215         1589.56         1.24         1596.29         3.86           0.0986         1.5031         3.8460         0.6305         0.2736         0.6215         1588.80         1.24         1596.46         3.75           0.0986         1.5031         3.7897         0.6305         0.2283         0.6215         1607.18         1.24         1596.46         3.75           0.0986         1.5528         3.840         0.6305         0.2287         0.6215         1607.41         1.24         1596.46         3.75           0.0986         1.5528         3.840         0.6305         0.2297         0.6215         1605.44         1.24         1597.89         3.68           0.0986         1.5628         3.7980         0.6305         0.2297         0.6215         1594.74         1.24         1597.89         3.71	Recommende	d age mean =	523.98 ± 0.12 Ma;	Schoene and B	owring, 2006													
0.0986         1.6471         3.8461         0.6305         0.2832         0.6215         1607.26         1.24         1596.29         3.85           0.0984         1.6234         3.8249         0.6305         0.2816         0.6215         1589.56         1.24         1590.59         3.85           0.0984         1.2737         3.7857         0.6305         0.2281         0.6215         1588.80         1.24         1590.46         3.75           0.0986         1.5373         3.7836         0.6287         0.6215         1607.18         1.24         1590.46         3.75           0.0986         1.5528         3.406         0.6305         0.2829         0.6215         1605.44         1.24         1590.46         3.75           0.0986         1.5528         3.406         0.6305         0.2879         0.6215         1605.44         1.24         1597.80         3.68           0.0986         1.5862         3.7980         0.6305         0.2297         0.6215         1594.74         1.24         1597.80         3.61           0.0986         1.2842         3.8141         0.6305         0.2807         0.6215         1594.74         1.24         1597.89         3.35	OD306_3_1	Apatite	1585.2	1.3	3.5864	0.6236	0.0986	1.6530	3.7883	0.6305	0.2790	0.6215	1586.23	1.24	1596.29	3.87	1590.28	1.26
0.0984         1.6234         3.8249         0.6305         0.2816         0.6215         1589.56         1.24         1593.61         3.80           0.0984         1.2793         3.7957         0.6305         0.2736         0.6215         1588.80         1.24         1593.65         3.00           0.0986         1.5031         3.8460         0.6305         0.2283         0.6215         1607.18         1.24         1596.46         3.75           0.0986         1.5528         3.8406         0.6305         0.2282         0.6215         1605.44         1.24         1596.95         3.68           0.0986         1.5828         3.7980         0.6305         0.2297         0.6215         1596.74         1.24         1597.83         3.71           0.0986         1.5824         3.8116         0.6305         0.2297         0.6215         1596.74         1.24         1597.83         3.71           0.0986         1.2842         3.8141         0.6305         0.2807         0.6215         1596.74         1.24         1597.83         3.71           0.0986         1.2842         3.8141         0.6305         0.2807         0.6215         1596.74         1.24         1595.80         3.35 <td>OD306_3_2</td> <td>Apatite</td> <td></td> <td></td> <td>3.5331</td> <td>0.6236</td> <td>0.0986</td> <td>1.6471</td> <td>3.8461</td> <td>0.6305</td> <td>0.2832</td> <td>0.6215</td> <td>1607.26</td> <td>1.24</td> <td>1596.29</td> <td>3.85</td> <td>1602.45</td> <td>1.26</td>	OD306_3_2	Apatite			3.5331	0.6236	0.0986	1.6471	3.8461	0.6305	0.2832	0.6215	1607.26	1.24	1596.29	3.85	1602.45	1.26
0.0984         1.2793         3.7957         0.6305         0.2735         0.6215         1.588 80         1.24         1593.65         3.00           0.0986         1.6031         3.8460         0.6305         0.22831         0.6215         1607.18         1.24         1596.46         3.75           0.0986         1.5737         3.7830         0.6305         0.2288         0.6215         1694.41         1.24         1596.95         3.86           0.0986         1.5862         3.7890         0.6305         0.2279         0.6215         1594.74         1.24         1597.80         3.63           0.0986         1.4324         3.8146         0.6305         0.2807         0.6215         1594.74         1.24         1595.99         3.75           0.0985         1.2882         3.8141         0.6305         0.2807         0.6215         1594.74         1.24         1595.99         3.37	OD306_3_3	Apatite			3.5458	0.6236	0.0984	1.6234	3.8249	0.6305	0.2816	0.6215	1599.56	1.24	1593.61	3.80	1598.00	1.26
0.0986         1.6031         3.8460         0.6305         0.2831         0.6215         1607.18         1.24         1596.46         3.75           0.0986         1.5737         3.7835         0.6305         0.2786         0.6215         1564.41         1.24         1595.95         3.68           0.0986         1.5528         3.7800         0.6305         0.2289         0.6215         1569.74         1.24         1595.90         3.63           0.0986         1.5862         3.780         0.6305         0.2287         0.6215         1589.74         1.24         1597.83         3.71           0.0986         1.2842         3.8146         0.6305         0.2807         0.6215         1594.74         1.24         1595.99         3.35           0.0985         1.2842         3.8141         0.6305         0.2807         0.6215         1594.74         1.24         1595.99         3.35	OD306_3_4	Apatite	1588.3	1.2	3.5737	0.6236	0.0984	1.2793	3.7957	0.6305	0.2795	0.6215	1588.80	1.24	1593.65	3.00	1591.84	1.26
0.0986 1.5737 3.7835 0.6305 0.2286 0.6215 1584.41 1.24 1595.95 3.68 0.0986 1.5528 3.8408 0.6305 0.2282 0.6215 1605.44 1.24 1597.80 3.63 0.0986 1.5862 3.7980 0.6305 0.2787 0.6215 1589.71 1.24 1597.83 3.71 0.0985 1.284 3.8114 0.6305 0.2807 0.6215 1595.51 1.24 1595.89 3.35 0.0985 1.2842 3.8141 0.6305 0.2807 0.6215 1595.51 1.24 1595.80 3.00	OD306_3_5	Apatite			3.5343	0.6236	0.0986	1.6031	3.8460	0.6305	0.2831	0.6215	1607.18	1.24	1596.46	3.75	1602.43	1.26
0.0986 1.5528 3.8408 0.6305 0.2828 0.6215 1605.44 1.24 1597.80 3.63 0.0986 1.5862 3.7980 0.6305 0.2787 0.6215 1589.71 1.24 1597.83 3.71 0.0985 1.4324 3.8116 0.6305 0.2807 0.6215 1594.74 1.24 1595.99 3.35 0.0985 1.2842 3.8141 0.6305 0.2808 0.6215 1595.51 1.24 1595.80 3.00	OD306_3_6	Apatite	1583.3	1.3	3.5901	0.6236	0.0985	1.5737	3.7835	0.6305	0.2786	0.6215	1584.41	1.24	1595.95	3.68	1589.25	1.26
0.0986 1.5862 3.7980 0.6305 0.2797 0.6215 1589.71 1.24 1597.83 3.71 0.0985 1.4224 3.8116 0.6305 0.2807 0.6215 1594.74 1.24 1595.99 3.35 0.0985 1.2842 3.8141 0.6305 0.2808 0.6215 1595.51 1.24 1595.80 3.00	OD306_3_7	Apatite			3.5362	0.6236	0.0986	1.5528	3.8408	0.6305	0.2828	0.6215	1605.44	1.24	1597.80	3.63	1601.33	1.26
0.0985 1.4324 3.8116 0.6305 0.2807 0.6215 1594.74 1.24 1595.99 3.35 0.0985 1.2842 3.8141 0.6305 0.2808 0.6215 1595.51 1.24 1595.80 3.00	OD306_3_8	Apatite	1588.9	1.3	3.5794	0.6236	0.0986	1.5862	3.7980	0.6305	0.2797	0.6215	1589.71	1.24	1597.83	3.71	1592.32	1.26
0.0985 1.2842 3.8141 0.6305 0.2808 0.6215 1595.51 1.24 1595.80 3.00	OD306_3_9	Apatite	1594.5	1.2	3.5612	0.6236	0.0985	1.4324	3.8116	0.6305	0.2807	0.6215	1594.74	1.24	1595.99	3.35	1595.20	1.26
Mean = 1595,8 ± 6.1 Ma, MSWD = 0.76, prob = 0.65  Decommended Concepted interest and = 4 f00 t 0.4 f 0 Me. "Homeon of al 0.74. MCJICD.MS	OD306 3 10	Apatite	1595.4	1.2	3.5597	0.6236	0.0985	1.2842	3.8141	0.6305	0.2808	0.6215	1595.51	1.24	1595.80	3.00	1595.73	1.26
Decommended Connected and = 1808 0 4.8.0 0 Mar Thomason et al. 2016; UC.I.C.D.MS	Mean = 1595.8	± 6.1 Ma, MS	WD = 0.76, prob =	0.65														
Neconfilling the College of the Coll	Recommender	i Concorida i																

Appendix G: U-Pb geochronology age standards

880 1.23 1.24 1.25 1	206P 5252 5252 5252 5252 5252 5252 5252 7206	4 0 1 0 4 0 0 0 0 0 0 0 0 1 1 0 0 0 0 0	206Pb/238  U cratio 0.2862 0.2867 0.2863 0.2863 0.2863 0.2865 0.2865 0.2867	145% 0.5279 0.5279 0.5279 0.7200 0.72	207Pb/235 Tatlo 3.8348 3.7829 3.8115 3.8246 3.8246 3.8251 3.8651 3.8652 3.8273		A		289U/206P   259U/206P   359U/206P   359U/206P   35800   35800   35800   35900	13 C C C C C C C C C C C C C C C C C C C	6 238 238 238 238 11.2 11.2 11.4 11.4 11.4 11.4 11.4 11.4	238 206Pb/238 238 10 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Age (Ma)   28%   14     Age (Ma)   28%   12     1582.8   1.2     1594.3   1.2     1572.2   1.4     1584.2   1.4     1584.2   1.4     1581.1   1.4     1581.1   1.4     1581.1   1.4     1581.1   1.4     1581.1   1.4     1581.1   1.4     1681.1   1.4     1681.1   1.4     1681.1   1.4     1681.1   1.4     1681.1   1.4     1681.1   1.4     1681.1   1.4     1681.1   1.4     1681.1   1.4     1681.1   1.4     1681.1   1.4     1681.2   1.4     1681.3   1.4     1681.4   1.4     1681.5   1.4     1681.6   1.4     1681.7   1.4     1681.8	Mineral   2069b/238   2069b/238   2069b/238   2069b/238   2069b/238   2069b/238   2069b/238   2069b/238   2069b/238   2069b/24   Apatite   1584.3   1.2
28% 3.23 4.64 4.64 4.64 4.64 4.37 6.28 6.30 6.30 6.30 6.30 6.30 6.30 6.30 6.30	Age ( 5252 5252 5252 5252 5252 5252 5252 7206 7206 7206 7206 7206 7206 7206 720	<u> </u>		0.6279 0.6279 0.6279 0.6279 0.7200	3.8348 3.7829 3.8115 3.8246 3.8267 3.8551 3.8562 3.8562 3.8775 3.8672 3.8037 3.8038 3.8198 3.8198 3.8304 3.8218	2.3483 2.4809 2.4609 2.3793 4.4868 1.5564 1.6902 1.6902 1.7929 1.8943 1.3033 1.5186 1.5186 1.5186		0.0986 0.0986 0.0986 0.0986 0.0986 0.0986 0.0986 0.0986 0.0986 0.0986 0.0986 0.0986 0.0986 0.0986 0.0986 0.0986 0.0986 0.0986	0.0986 0.0986 0.0986 0.0986 0.0986 0.0986 0.0986 0.0986 0.0986 0.0986 0.0985 0.0985 0.0985 0.0985 0.0985 0.0985	0.0986 0.0986 0.0986 0.0986 0.0986 0.0986 0.0986 0.0985 0.0985 0.0985 0.0985 0.0985 0.0985 0.0985	0.0986 0.0986 0.0986 0.0986 0.0986 0.0986 0.0986 0.0986 0.0986 0.0986 0.0986 0.0986 0.0986 0.0986 0.0986 0.0986 0.0986 0.0986	0.0986 0.0986 0.0986 0.0986 0.0986 0.0986 0.0986 0.0986 0.0986 0.0986 0.0986 0.0986 0.0986 0.0986 0.0986 0.0986 0.0986 0.0986	0.0986 0.0986 0.0986 0.0986 0.0986 0.0986 0.0986 0.0986 0.0986 0.0986 0.0986 0.0985 0.0985 0.0985 0.0985 0.0985	12   3.5840   0.5248   0.0968   1.2   3.5840   0.5248   0.0968   1.2   3.5890   0.5248   0.0968   1.2   3.5890   0.5248   0.0968   1.4   3.5836   0.5248   0.0968   1.4   3.5813   0.7305   0.0968   1.4   3.5814   0.7305   0.0968   1.4   3.5840   0.7305   0.0968   1.4   3.5988   0.7305   0.0968   1.4   3.5988   0.7305   0.0968   1.4   3.5988   0.7305   0.0968   1.4   3.5850   0.7305   0.0968   1.4   3.5850   0.7305   0.0968   1.4   3.5850   0.7305   0.0968   1.4   3.5850   0.7305   0.0968   1.4   3.5840   0.7305   0.7305   0.0968   1.4   3.5840   0.7305   0.
<del></del> -			0.282 0.284 0.284 0.284 0.284 0.284 0.284 0.286 0.286 0.286 0.286 0.286 0.286 0.286 0.286	0.5279 0.5279 0.5279 0.7200 0.	3.8348 3.7829 3.8115 3.8246 3.8208 3.7571 3.8562 3.8373 3.775 3.8273 3.7967 3.8273 3.7967 3.8273 3.8288 3.8198 3.8327 3.8327 3.8328 3.8	2.3483 2.4809 2.5166 2.1547 2.1547 1.4868 1.5264 1.4185 1.4185 1.4502 1.3259 1.7529 1.7729 1.		_	SIA	S4-	SP	SP	SAF	0.0986 0.0986 0.0986 0.0986 0.0986 0.0986 0.0986 0.0986 0.0986 0.0985 0.0985 0.0985 0.0985 0.0985 0.0985 0.0985 0.0985 0.0985
÷ •			0.278 0.281 0.278 0.278 0.278 0.278 0.278 0.288 0.288 0.288 0.288	0.5279 0.5279 0.5279 0.7200 0.	3.8415 3.8246 3.8246 3.8551 3.8562 3.8573 3.7755 3.8273 3.7967 3.8273 3.8273 3.8273 3.8273 3.8273 3.8273 3.8273 3.8273 3.8286 3.	2.4809 2.5156 2.1547 2.1547 1.4868 1.5264 1.16756 1.16902 1.16902 1.17929 1.17929 1.17929 1.17929 1.17929 1.17929 1.17929 1.17929 1.17933 1.17933 1.17933 1.17933 1.17933 1.17933 1.17933 1.17933	,	_	0.0986 0.0986 0.0986 0.0986 0.0986 0.0986 0.0986 0.0985 0.0985 0.0985 0.0985 0.0985 0.0985 0.0985 0.0985	0.0986 0.	\$860.0 \$9	0.0986 0.0986 0.0986 0.0986 0.0986 0.0986 0.0986 0.0986 0.0986 0.0986 0.0986 0.0986 0.0986 0.0986 0.0986 0.0986 0.0986 0.0986 0.0986 0.0986	\$860.0 9860.0	0.0986 0.0986 0.0986 0.0986 0.0986 0.0986 0.0986 0.0985 0.0985 0.0985 0.0985 0.0985 0.0985 0.0985 0.0985 0.0985 0.0985
÷ •			0.289 0.284 0.284 0.285 0.286 0.286 0.286 0.286 0.286 0.286 0.286	0.6279 0.6279 0.7200 0.	3.8715 3.8246 3.8208 3.7571 3.8562 3.8373 3.7755 3.8273 3.7867 3.8268 3.7867 3.8268 3.7867 3.8288 3.7867 3.8288 3.7867 3.8288 3.7867 3.8288 3.7867 3.8288 3.7867 3.8288 3.8327 3.8327 3.8328 3.	2.5156 2.1547 2.1547 1.4868 1.5264 1.6902 1.6902 1.6902 1.6902 1.6902 1.6902 1.6903 1.		0.0986 0.0986	SV	<b>S</b>	SW	S. A. C. C. C. C. C. C. C. C. C. C. C. C. C.	sy.	S.
<del>,</del> ,			0.284 0.284 0.284 0.284 0.284 0.284 0.284 0.284 0.284 0.284 0.284 0.284	0.527.0 0.7200 0	3.8208 3.7571 3.8562 3.8562 3.8373 3.7755 3.8037 3.8037 3.8038 3.8198 3.8304 3.8218 3.8304 3.8218	2.3733 1.4868 1.5264 1.6756 1.4165 1.5925 1.7829 1.		0.0986 0.0986 0.0986 0.0986 0.0986 0.0986 0.0986 0.0986 0.0986 0.0986 0.0986 0.0986 0.0986 0.0986 0.0986 0.0986 0.0986	S S	S	SW	S A	s <del>v</del>	S.
÷ ,			0.278 0.288 0.288 0.288 0.288 0.288 0.288 0.288 0.288 0.288 0.288 0.000	0.7200 0.	3.7671 3.8562 3.8862 3.8373 3.7755 3.8037 3.8037 3.8028 3.8198 3.8198 3.8218 3.8218 3.8218	1,4868 1,5264 1,6756 1,6902 1,5925 1,7929 1,7929 1,3943 1,3943 1,5186 1,5401 1,5401 1,5844		0.0986 0.0986 0.0986 0.0986 0.0986 0.0986 0.0985 0.0985 0.0985 0.0985	S S	SI	S A	S	SW	S <sub>M</sub> .
÷ ,			0.283 0.284 0.284 0.284 0.285 0.286 0.286 0.286 0.286 0.286	0,7200 0,	3.8551 3.8862 3.8873 3.7755 3.8077 3.8037 3.8038 3.8198 3.8198 3.8218 3.8218 3.8218	1,5264 1,6756 1,4185 1,6902 1,5025 1,5259 1,7829 1,7829 1,3033 1,3033 1,5186 1,5401 1,2884		0.0986 0.0986 0.0986 0.0986 0.0985 0.0985 0.0985 0.0985 0.0985	Ş	SF	S W	S	SW	S <sub>M</sub> .
- 7			0.284 0.287 0.287 0.287 0.288 0.288 0.288 0.288 0.288	0,7200 0,	3.8862 3.8873 3.7755 3.8273 3.8273 3.8286 3.8286 3.8327 3.8028 3.8198 3.8198 3.8218 3.8218	1,6756 1,4185 1,6902 1,5925 1,7829 1,7829 1,3032 1,3043 1,3033 1,5186 1,5401 1,2884		0.09 86 0.09 86 0.00 8	ş	SF	SW	SS	SW	SW
- 7			0.2874 0.2874 0.2874 0.2874 0.2874 0.2874 0.2874 0.2874 0.28744 0.2874 0.2874 0.2874 0.2874 0.2874 0.2874 0.2874	0.7200 0.	3.8273 3.7755 3.8277 3.8268 3.8268 3.7867 3.8327 3.8028 3.8198 3.8198 3.8218 3.8218	1,4185 1,6902 1,5925 1,4502 1,7829 1,7829 1,3033 1,3033 1,5186 1,5401 1,2884	_	0.00968 0.00968 0.00968 0.00968 0.00968 0.00968 0.00968 0.00968 0.00968 0.00968 0.00968 0.00968 0.00968 0.00968	SW-	SH	SW	SE	SW	SV
<del>-</del> ,			0.284 0.284 0.284 0.284 0.284 0.284 0.284 0.284	0.720 0.720 0.720 0.720 0.720 0.720 0.720 0.720 0.720 0.720 0.720 0.720 0.720	3.8273 3.7961 3.8037 3.8268 3.7867 3.8028 3.8198 3.8304 3.8218 3.8218	1.5825 1.4502 1.7829 1.7829 1.3943 1.3033 1.5186 1.5401 1.2884		0.0986 0.0986 0.0986 0.0986 0.0986 0.0986 0.0986 0.0986 0.0986	SW-	SW-	Syt	SH	SN	SW
- ,			0.207 0.208 0.207 0.208 0.208 0.208 0.208	0.7200 0.7200 0.7200 0.7200 0.7200 0.7200 0.7200 0.7200	3.7961 3.8037 3.8268 3.7867 3.8088 3.8198 3.8304 3.8218 3.8218	1.4502 1.7829 1.7829 1.6032 1.3943 1.5186 1.5186 1.5401 1.2844	10 (0 (0 10 10 10 10 10 10 10 10	0.098 0.098 0.098 0.098 0.098 0.098 0.098	S A	S WA	SP	SW.	SWT	SW
7			0.200	0.7200 0.7200 0.7200 0.7200 0.7200 0.7200 0.7200	3.8037 3.8268 3.7867 3.8327 3.8088 3.8198 3.8218 3.8218	1.3259 1.7929 1.6032 1.3943 1.5186 1.5186 1.5401 1.2884 1.4207	_	0.00966 0.00965 0.00965 0.00965 0.00965 0.00965 0.00965	Sy	SN	SF	S A	SWT	SW.
7			0.208	0.7200 0.7200 0.7200 0.7200 0.7200 0.7200 0.7200	3.8268 3.7867 3.8327 3.8088 3.8148 3.8304 3.8029	1,7929 1,5923 1,3943 1,3033 1,5186 1,5186 1,5841 1,4207	_	0.0986 0.0985 0.0985 0.0985 0.0985 0.0985 0.0985 0.0985	Syl	SN	N.	SW	SW	SN
7			0.278 0.285 0.284 0.285 0.285 0.006	0.7200 0.7200 0.7200 0.7200 0.7200 0.7200 0.7200	3.7867 3.8327 3.8088 3.8198 3.8304 3.8218 3.8029	1.6032 1.3043 1.5186 1.5401 1.2884 1.4207		0.0985 0.0985 0.0985 0.0985 0.0985 0.0985 0.0985 0.0985	SW	SW	SW	S	SW	SN
<del>-</del> -			0.285	0.7200 0.7200 0.7200 0.7200 0.7200 0.7200	3.8327 3.8088 3.8198 3.8304 3.8218 3.8029	1.3943 1.3033 1.5186 1.5401 1.2884 1.4207	_	0.0985	<u>s</u>	SW	SW-	SW-	SW	SW
<del>-</del> ,			0.284	0.7200 0.7200 0.7200 0.7200	3.8198 3.8198 3.8218 3.8029	1.5186 1.5401 1.2884 1.4207	_	0.0985 0.0985 0.0985 0.0985 0.0985	SW-	S	SW-	SW-	SW	SW-
			0.282	0.7200 0.7200 0.7200 0.7200	3.8304 3.8218 3.8029	1.5186 1.5401 1.2884 1.4207		0.0985 0.0985 0.0985 0.03554	S	SW-	SW-	SW	SW-	SW-
			0.000	0.7200	3.8218	1.2884		0.0985	-WS	-MS	SW-	SW-	SW-	SW
			0.006	0.7200	3.8029	1.4207	_	0.0985	SW	SW-	SW-	SW-	SW-	-WS
			00:00					0.3554	SW	-MS	-MS	-MS	SM-	SW-
			0.00					0.3554						Apatite 26.7 22.9 146.8429 7.0063
				10.1551	0.3334	12.2558				7.0063	146.8429 7.0063	22.9 146.8429 7.0063	26.7 22.9 146.8429 7.0063	Annatity 25 7 20 140 140 315 8 4055
3.21 12.83			0.006	13.4381	0.1545	14.8088		0.1666	6.4055 0.1666		6.4055	148.2715 6.4055	36.7 14.8 148.2715 6.4055	14.8 148.2/15 0.4055
2.12 9.74			900.0	8.1371	0.2349	9.4050		0.2603			151.5930 4.8358	12.9 151.5930 4.8358	30.8 12.9 151.5930 4.8358	Apatite 30.8 12.9 151.5930 4.8358
_			900'0	8.0467	0.2909	9.5087	4	0.306		5.2311	145.9362 5.2311	15.2 145.9362 5.2311	29.5 15.2 145.9362 5.2311	Apatite 29.5 15.2 145,9362 5.2311
			0.007	7.4471	0.2886	8.6242	ıo -	0.266		4.5227	127.5792 4.5227	12.1 127.5792 4.5227	36.5 12.1 127.5792 4.5227	Apatite 36.5 12.1 127.5792 4.5227
			0.008	8.7746	0.2003	9.8986	N a	0.211		4.7270	145.8251 4.7270 128.5787 5.4805	11.6 145.8251 4.7270 14.4 128.6787 6.4695	34.9 11.6 145.8251 4.7270	Apatite 34.9 11.6 145.8251 4.7270
_			900:0	8.2421	0.2626	9.6784		0.292		6.3143	153.3610 6.3143	14.7 153.3610 6.3143	28.9 14.7 153.3610 6.3143	Apatite 28.9 14.7 153.3610 6.3143
			0.007	8.9722	0.2361	10.2307		0.2318			136.1870 5.2366	12.8 136.1870 5.2366	12.8 136.1870 5.2366	12.8 136.1870 5.2366
										15; Ar-Ar	well et al., 2005; Ar-Ar	8 Ma; McDowell et al., 2008; Ar-Ar	WWD = 2.1, prob = 0.031 i = 31.44 ± 0.18 Ma; McDowell et al., 2005; Ar-Ar	Mean = 33.5 ± 2.6 Ma.; MSWD = 2.1, prob = 0.031 Recommended age mean = 31.44 ± 0.18 Ma; McDowell et al., 2005; Ar-Ar
6.30 4.55			0.086	6.9472	0.7933	7.1229		0.0664	2.2481 0.0664		2.2481	4.6 11.5272 2.2481	531.0 4.6 11.5272 2.2481	4.6 11.5272 2.2481
			0.086	6.3126	0.6652	6.4172	_	0.0560	1.9092 0.0560		1.9092	1.9092	11.6057 1.9092	11.6057 1.9092
8.86 3.28			0.085	3.8593	0.9064	3.8473		0.0766	1.4412 0.0766		1.4412	3.3 11.6826 1.4412	517.1 3.3 11.6826 1.4412	3.3 11.6826 1.4412
			0.087	4.3157	0.7990	4.4918		0.0661	1.4485 0.0661		1.4485	3.0 11.4335 1.4485	535.6 3.0 11.4335 1.4485	535.6 3.0 11.4335 1.4485
3.40 2.81			0.086	4.0364	0.8453	4.1473		0.0711		1.3964	1.3964	2.8 11.5909 1.3964	525.1 2.8 11.5909 1.3964	525.1 2.8 11.5909 1.3964
9.01 2.66			0.088	3.8411	0.8119	3.8094		0.0663	1.3322 0.0663		1.3322	2.7 11.2458 1.3322	543.9 2.7 11.2458 1.3322	2.7 11.2458 1.3322
			0.089	4.1510	0.7493	4.2128	10	0.00	1.4337 0.06		11.2674 1.4337	3.0 11.2674 1.4337	547.7 3.0 11.2674 1.4337	547.7 3.0 11.2674 1.4337
			0.086	4.0945	0.7861	4.1783	663	0.0		1.4514	1.4514	2.9 11.6182 1.4514	527.0 2.9 11.6182 1.4514	2.9 11.6182 1.4514
0.59 2.78			0.087	4.2235	0.7551	4.3982	979	0.0		1.3868	1.3868	2.8 11.4335 1.3868	2.8 11.4335 1.3868	2.8 11.4335 1.3868
7 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		42.12 43.88 50.34 41.92 41.92 14.92 14.92 538.30 533.40 549.01 549.01 549.03 532.28 540.59	4.5156 4.321 1 4.8885 4.321 1 4.5158 4.5158 50.44 4.08 4.9959 50.35 5.2178 41.92 1 5.0711 47.39 1 5.0711 47.39 1 5.0711 47.39 1 6.9959 52.2751 536.30 6.30 6.30 6.30 6.30 6.30 6.30 6.30	6.747.9 4.3.00 6.4726 4.3.21 7.882 4.4.08 7.882 4.4.08 7.882 5.0.44 7.882 5.0.71 6.0.711 47.39 1.9134 533.18 1.6382 52.8.86 1.4728 533.40 1.3316 549.01 1.5084 549.01 1.5084 549.01 1.3875 540.59	0.0066	13.4381 0.0006 6.4126 43.21 13.4381 0.0068 5.2613 43.88 14.24 0.0008 5.2613 43.88 14.24 0.0008 5.2613 43.88 14.24 0.0008 6.2613 43.88 14.24 0.0008 4.7682 44.08 17.249 0.0008 5.2178 41.92 18.2421 0.0008 5.2178 41.92 18.2421 0.0008 5.2178 41.92 18.2421 0.0008 5.2178 41.92 18.2421 0.0085 1.9134 533.18 3.8633 0.0085 1.9134 533.18 540.65 4.0084 0.0083 1.14026 533.40 14.1510 0.0080 1.16084 549.38 4.0045 0.0087 1.3875 540.59	0.2334 10.1391 0.0067 6.4126 43.21 1 0.2349 8.0467 0.0068 5.2613 43.88 1 0.2390 8.0467 0.0068 5.2613 43.88 1 0.2386 7.4471 0.0079 4.5156 5.0.44 0.2003 8.746 0.0089 4.7882 44.08 0.2362 8.2421 0.0065 5.7178 41.92 1 0.2361 8.9722 0.0074 5.0711 47.39 1 0.9064 3.8593 0.0862 1.9134 533.18 0.9664 0.9064 0.0875 1.4738 53.318 0.9453 4.0364 0.0889 1.3316 549.01 0.7493 4.1510 0.0889 1.3316 549.01 0.7493 4.1510 0.0889 1.3316 549.01 0.7493 0.7861 4.0245 0.0875 1.4738 533.228 0.7861 4.0245 0.0875 1.4738 533.228	14 8088         0.1545         13.4381         0.0067         6.4126         43.21         1           9.4050         0.2349         8.1371         0.0066         4.8885         42.12           9.6087         0.2896         7.4471         0.0066         4.8885         42.12           9.8986         0.2003         8.7746         0.0069         4.7682         44.06           9.1118         0.3289         7.7249         0.0078         4.7682         44.06           9.6794         0.2826         8.2421         0.0069         4.7682         64.06           1.02307         0.2861         8.2421         0.0065         5.2178         41.92         1           7.1229         0.79361         8.9722         0.0074         5.0711         47.39         1           7.1229         0.7937         6.9126         0.0862         1.9134         533.18           3.8473         0.9064         3.8953         0.0865         1.4738         540.06           4.1473         0.8453         4.066         1.4026         533.40           3.8044         0.7891         4.066         549.38           4.188         0.7861         4.0863         1.4026	6.4056         0.1666         1.48088         0.1545         13.4381         0.0067         6.4126         43.21           4.8358         0.2603         9.4050         0.2349         8.1371         0.0068         4.8685         42.12           5.2311         0.3064         9.5087         0.2909         8.0467         0.0068         5.2613         43.88         1           4.7270         0.2112         9.8986         0.2003         8.7746         0.0078         4.5158         5.044           4.7270         0.2112         9.8986         0.2289         7.7249         0.0078         4.5959         50.35           5.4845         0.2893         7.7249         0.0078         4.9959         50.35           6.3143         0.2944         9.6784         0.2859         8.2421         0.0068         5.2178         41.92           5.2366         0.2318         1.02307         0.2361         8.9722         0.0074         5.0711         47.39         1           1.3002         0.0560         6.4172         0.6652         6.3126         0.0865         1.6382         52.886           1.4445         0.0766         3.8473         0.9064         3.8533         0.0875	6.4055         0.5354         0.1545         0.1534         0.0000         0.7041         4.326           6.4055         0.2666         9.4050         0.2349         8.1371         0.0066         4.2685         42.21         1.321           6.2311         0.3664         9.5687         0.2999         8.0467         0.0068         5.2613         43.88         1.21           4.527         0.2665         8.6242         0.2886         7.4471         0.0079         4.5156         5.044           4.7270         0.2112         9.8986         0.2003         8.7446         0.0069         4.7882         44.08           5.4695         0.3294         9.784         0.2866         7.7249         0.0078         4.7882         44.08           5.2465         0.2394         0.7289         8.2421         0.0069         4.7882         50.34           5.2366         0.2318         0.2394         0.2361         8.9722         0.0078         4.7882         50.35           5.2366         0.2318         1.02307         0.2361         8.9722         0.0074         5.0711         47.39           1.3002         0.0560         6.4172         0.6662         6.3126         0.0862	6.4055         0.5354         0.1545         0.1534         0.0000         0.7041         4.326           6.4055         0.2666         9.4050         0.2349         8.1371         0.0066         4.2685         42.21         1.321           6.2311         0.3664         9.5687         0.2999         8.0467         0.0068         5.2613         43.88         1.21           4.527         0.2665         8.6242         0.2886         7.4471         0.0079         4.5156         5.044           4.7270         0.2112         9.8986         0.2003         8.7446         0.0069         4.7882         44.08           5.4695         0.3294         9.784         0.2866         7.7249         0.0078         4.7882         44.08           5.2465         0.2394         0.7289         8.2421         0.0069         4.7882         50.34           5.2366         0.2318         0.2394         0.2361         8.9722         0.0078         4.7882         50.35           5.2366         0.2318         1.02307         0.2361         8.9722         0.0074         5.0711         47.39           1.3002         0.0560         6.4172         0.6662         6.3126         0.0862	6.4055         0.5354         0.1545         0.1534         0.0000         0.7041         4.326           6.4055         0.2666         9.4050         0.2349         8.1371         0.0066         4.2685         42.21         1.321           6.2311         0.3664         9.5687         0.2999         8.0467         0.0068         5.2613         43.88         1.21           4.527         0.2665         8.6242         0.2886         7.4471         0.0079         4.5156         5.044           4.7270         0.2112         9.8986         0.2003         8.7446         0.0069         4.7882         44.08           5.4695         0.3294         9.784         0.2866         7.7249         0.0078         4.7882         44.08           5.2465         0.2394         0.7289         8.2421         0.0069         4.7882         50.34           5.2366         0.2318         0.2394         0.2361         8.9722         0.0078         4.7882         50.35           5.2366         0.2318         1.02307         0.2361         8.9722         0.0074         5.0711         47.39           1.3002         0.0560         6.4172         0.6662         6.3126         0.0862	6.4055         0.5354         0.1545         0.1534         0.0000         0.7041         4.326           6.4055         0.2666         9.4050         0.2349         8.1371         0.0066         4.2685         42.21         1.321           6.2311         0.3664         9.5687         0.2999         8.0467         0.0068         5.2613         43.88         1.21           4.527         0.2665         8.6242         0.2886         7.4471         0.0079         4.5156         5.044           4.7270         0.2112         9.8986         0.2003         8.7446         0.0069         4.7882         44.08           5.4695         0.3294         9.784         0.2866         7.7249         0.0078         4.7882         44.08           5.2465         0.2394         0.7289         8.2421         0.0069         4.7882         50.34           5.2366         0.2318         0.2394         0.2361         8.9722         0.0078         4.7882         50.35           5.2366         0.2318         1.02307         0.2361         8.9722         0.0074         5.0711         47.39           1.3002         0.0560         6.4172         0.6662         6.3126         0.0862	13         4,8358         0,1000         14,2008         0,11943         13,4381         0,1000         6,4120         43,211           23         4,8358         0,2664         9,6070         0,2299         8,0467         0,0066         4,8685         42,12           24         4,5227         0,2665         8,6242         0,2896         7,4471         0,0069         4,7682         42,12           51         4,7270         0,2112         9,8986         0,2003         8,7746         0,0069         4,7682         44,08           77         4,47270         0,2112         9,8986         0,2003         8,7746         0,0069         4,7682         44,08           77         4,4935         0,2924         9,6784         0,2826         8,2421         0,0069         4,7682         40,08           70         5,2366         0,2318         10,2307         0,2867         8,2421         0,0069         4,7826         1,382           71         1,2492         0,0284         9,6784         0,2866         8,2472         0,0069         4,782         1,132           71         1,2394         1,2237         0,2867         8,2472         0,0069         2,778         1,132

Appendix G: U-Pb geochronology age standards

Analysis	Mineral	207cor 206Pb/238 U	207cor 206Pb/238 U	238U/206P b		207 Pb/206P b		207Pb/235 U (calc)		206Pb/238 U		206Pb/238U		207Pb/206P b		207Pb/235U (calc)	
		Age (Ma)	2s%	ratio	1s%	ratio	1s%	ratio	15%	ratio	1s%	Age (Ma)	2s%	Age (Ma)	2s%	Age (Ma)	2s%
McClure_4_1	Apatite	542.3	3.6	9.9692	1.5940	0.1615	3.7378	2.2337	3.6041	0.1004	1.6194	616.70	3.24	2470.39	5.11	1191.68	7.21
McClure_4_2	Apatite	517.1	3.9	9.6029	1.6578	0.2206	3.0051	3.1650	2.9134	0.1042	1.7102	638.71	3.42	2984.27	3.24	1448.67	5.83
McClure_4_3	Apatite	527.3	2.5	10.0466	1.1145	0.1762	1.8120	2.4178	1.8372	9660'0	1.1543	612.02	2.31	2616.41	2.31	1247.90	3.67
McClure_4_4	Apatite	521.1	2.9	10.7700	1.3211	0.1354	2.8305	1.7420	2.7847	0.0930	1.4106	573.44	2.82	2168.41	4.55	1024.21	2.57
McClure_4_5	Apatite	547.2	4.4	8.4154	1.7776	0.2692	3.0495	4.4042	2.7757	0.1188	1.7752	723.86	3.55	3300.55	2.90	1713.14	5.55
McClure_4_6	Apatite	531.1	3.3	8.4849	1.3413	0.2835	2.0096	4.6109	1.9186	0.1180	1.3547	719.07	2.71	3381.58	1.85	1751.24	3.84
McClure_4_7	Apatite	535.6	3.4	9.1793	1.4484	0.2269	2.4280	3.4119	2.3006	0.1089	1.5090	966.56	3.02	3029.51	2.57	1507.13	4.60
McClure_4_8	Apatite	517.7	2.8	9.8087	1.2197	0.2054	2.0227	2.8867	2.0147	0.1020	1.2399	625.91	2.48	2868.78	2.29	1378.44	4.03
McClure 4 9	Apatite	541.2	2.7	9.3916	1.2150	0.2052	1.9555	3.0225	1.9249	0.1066	1.2142	653.00	2.43	2867.31	2.22	1413.30	3.85
Mean = 528.2 ±	5.4 Ma, MSW	Mean = 528.2 ± 5.4 Ma, MSWD = 1.5, prob = 0.14	14		_												
Recommended	age mean =	Recommended age mean = 523.98 ± 0.12 Ma; Schoene and Bowring, 2006	Schoene and B	3owring, 2006													
Durango_5_1	Apatite	31.5	20.6	141.9732	7.3257	0.2892	13.7829	0.2819	11.7851	0.0071	7.3422	45.42	14.68	3412.54	12.56	252.13	23.57
Durango_5_2	Apatite	36.9	18.1	133.3249	7.1280	0.2360	14.3926	0.2446	12.6236	0.0075	7.1070	48.40	14.21	3092.43	14.85	222.19	25.25
Durango_5_3	Apatite	33.8	14.0	136.3807	6.3485	0.2692	9.7703	0.2712	8.5154	0.0073	5.2411	46.92	10.48	3300.95	9.29	243.63	17.03
Durango_5_4	Apatite	35.3	11.9	138.0158	4.7002	0.2369	9.1458	0.2363	8.1119	0.0072	4.7199	46.47	9.44	3098.88	9.41	215.39	16.22
Durango_5_5	Apatite	33.8	12.7	143.7611	4.9984	0.2409	9.6734	0.2321	8.5494	0.0070	4.9965	44.79	66.6	3125.22	9.85	211.89	17.10
Durango_5_6	Apatite	34.7	6.6	148.9481	4.1547	0.2030	8.4622	0.1879	7.6530	0.0067	4.1694	43.18	8.34	2850.12	9.67	174.81	15.31
Durango_5_7	Apatite	31.2	12.4	151.9469	4.7783	0.2534	9.0926	0.2293	8.0028	0.0066	4.8011	42.22	9.60	3205.36	8.97	209.64	16.01
Durango 5_8	Apatite	31.4	12.6	149.6573	4.7977	0.2611	6600.6	0.2412	7.9021	0.0067	4.8103	43.08	9.62	3252.39	8.72	219.40	15.80
Mean = 33.6 ± 1	.5 Ma, MSWD	Mean = 33.6 ± 1.5 Ma, MSWD = 0.73, prob = 0.65	.65		_												
Recommended	age mean =	Recommended age mean = 31.44 ± 0.18 Ma; McDowell et al., 2005; Ar-Ar	McDowell et al.,	2005; Ar-Ar													
00306 5 1	Anatite	1597.3	10	3 5549	0.5623	0.0987	2 5368	3 8188	0.5325	0.2812	0 5433	1597 42	9	1597 94	5 93	1596 71	1 07
00306 5 2	Apatite	1504.2	i C	3 5647	0.5623	1000:0	2 1670	3 8115	0.5325	0.2806	0.5433	1504 54	6 6	1597.49	5.06	1505.7	10.1
OD306 5.3	Apatite	1585.7	<u> </u>	3.5838	0.5623	0.0985	2 1421	3 7905	0.5325	0.2330	0.5433	1586 66	8 6	1595.86	5.03	1590.74	107
OD306 5 4	Apatite			3,5366	0.5623	0.0985	2.1085	3,8388	0.5325	0.2827	0.5433	1604.92	1.09	1595.16	46.4	1600.92	1.07
OD306_5_5	Apatite	1563.3	2.8	3.6370	1.4058	0.0985	1.6228	3.7345	1.4074	0.2750	1.4080	1565.95	2.82	1594.31	3.80	1578.79	2.81
OD306_5_6	Apatite			3.5596	1.4058	0.0985	1.4641	3.8135	1.4074	0.2808	1.4080	1595.36	2.82	1594.22	3.43	1595.59	2.81
OD306_5_7	Apatite			3.4242	1.4058	0.0984	1.4606	3.9618	1.4074	0.2917	1.4080	1650.06	2.82	1594.08	3.42	1626.41	2.81
OD306_5_8	Apatite	1589.0	2.7	3.5759	1.4058	0.0985	1.3945	3.7974	1.4074	0.2796	1.4080	1589.52	2.82	1594.22	3.27	1592.19	2.81
OD306_5_9	Apatite	1588.6	2.8	3.5753	1.4058	0.0986	1.5298	3.7972	1.4074	0.2796	1.4080	1589.32	2.82	1596.31	3.58	1592.16	2.81
OD306_5_10	Apatite			3.5145	1.4058	0.0986	1.5653	3.8633	1.4074	0.2845	1.4080	1613.82	2.82	1596.39	3.66	1606.05	2.81
OD306_5_11	Apatite	1573.6	2.8	3.6104	1.4058	0.0987	1.6745	3.7610	1.4074	0.2769	1.4080	1575.74	2.82	1598.24	3.91	1584.47	2.81
OD306_5_12	Apatite	1585.1	2.8	3.5827	1.4058	0.0986	1.5406	3.7885	1.4074	0.2790	1.4080	1586.24	2.82	1597.43	3.60	1590.31	2.81
OD306_5_13	Apatite	1581.7	2.7	3.5939	1.4058	0.0987	1.2813	3.7807	1.4074	0.2784	1.4080	1583.20	2.82	1598.33	2.99	1588.65	2.81
OD306_5_14	Apatite	1595.3	2.7	3.5597	1.4058	0.0987	1.2860	3.8145	1.4074	0.2809	1.4080	1595.64	2.82	1598.05	3.00	1595.82	2.81
OD306_5_15	Apatite			3.5294	1.4058	0.0986	1.5517	3.8493	1.4074	0.2834	1.4080	1608.69	2.82	1596.59	3.63	1603.12	2.81
OD306_5_16	Apatite	1593.0	2.7	3.5663	1.4058	0.0986	1.3981	3.8081	1.4074	0.2804	1.4080	1593.34	2.82	1596.25	3.27	1594.45	2.81
OD306_5_17	Apatite			3.5667	1.4058	0.0984	1.4718	3.8089	1.4074	0.2804	1.4080	1593.61	2.82	1592.32	3.45	1594.63	2.81
OD306 5 18	Apatite			3.5441	1.4058	0.0984	1.5311	3.8300	1.4074	0.2820	1.4080	1601.56	2.82	1592.40	3.59	1599.08	2.81
Mean = 1595.7 ±	6.9 Ma, MSV	Mean = 1595.7 ± 6.9 Ma, MSWD = 0.71, prob = 0.79	0.79														
Recommended	Concorida in	Recommended Concorida intercept age = 1595.9 ± 5.9 Ma; Thompson et al., 2016; MC-ICP	95.9 ± 5.9 Ma; TI	nompson et al., 2	016; MC-ICP-	MS											

Appendix G: U-Pb geochronology age standards

Analysis	Mineral	207cor 206Pb/238 U	207cor 206Pb/238 U	238U/206P b		207Pb/206P b		207Pb/235 U (calc)		206Pb/238 U		206Pb/238U		207Pb/206P b		207Pb/235U (calc)	
		Age (Ma)	2s%	ratio	18%	ratio	18%	ratio	15%	ratio	1s%	Age (Ma)	2s%	Age (Ma)	2s%	Age (Ma)	2s%
401_5_1	Apatite	550.2	3.7	11.0950	1.8044	0.0667	5.5405	0.8265	5.4650	0.0900	1.8184	555.53	3.64	827.00	27.95	611.66	10.93
401_5_2	Apatite	555.9	3.9	11.0043	1.8068	0.0669	5.5307	0.8388	5.4553	0.0910	1.9391	561.35	3.88	833.20	27.67	618.49	10.91
401_5_3	Apatite	514.1	3.7	11.9120	1.8516	0.0675	3.9671	0.7832	4.0820	0.0840	1.8539	520.20	3.71	852.68	19.33	587.31	8.16
401_5_4	Apatite	529.1	3.8	11.6092	1.8608	0.0641	4.1393	0.7622	4.3082	0.0862	1.8970	532.90	3.79	743.48	23.54	575.28	8.62
401_5_5	Apatite	527.2	3.6	11.6261	1.7971	0.0651	3.7459	0.7718	3.8887	0.0860	1.8001	531.65	3.60	776.05	20.30	580.78	7.78
401_5_6	Apatite	537.4	3.6	11.4223	1.7909	0.0633	3.7772	0.7630	3.9202	0.0875	1.7970	540.61	3.59	716.60	22.38	575.72	7.84
401_5_7	Apatite	516.0	3.6	11.7984	1.8188	0.0704	4.0867	0.8213	4.2186	0.0847	1.8254	523.87	3.65	940.14	17.82	608.77	8.44
401_5_8	Apatite	536.5	3.6	11.4505	1.7976	0.0643	3.7795	0.7765	3.9199	0.0874	1.8268	540.41	3.65	752.06	21.22	583.49	7.84
Mean = 534 ± 12	2 Ma, MSWD =	Mean = 534 ± 12 Ma, MSWD = 2.3, prob = 0.022	22														
Recommended	Concordia in	tercept age = 53	0.3 ± 1.4 Ma; The	Recommended Concordia intercept age = 530.3 ± 1.4 Ma; Thompson et al., 2016	16												
McClure_5_1	Apatite	555.6	6.4	8.6850	2.6618	0.2378	5.1290	3.7720	5.2826	0.1149	2.6639	701.23	5.33	3104.44	5.27	1586.81	10.57
McClure_5_2	Apatite	513.7	4.0	10.4371	1.7697	0.1693	3.9396	2.2414	4.1153	0.0960	1.7839	591.21	3.57	2550.26	5.17	1194.11	8.23
McClure_5_3	Apatite	527.0	4.3	9.7373	2.0026	0.1978	2.9324	2.8088	3.1714	0.1027	2.0049	630.03	4.01	2807.42	3.42	1357.90	6.34
McClure_5_4	Apatite	541.9	4.7	8.0774	1.9301	0.3007	2.3806	5.1473	2.6387	0.1238	2.0189	752.64	4.04	3473.32	2.12	1843.95	5.28
McClure_5_5	Apatite	524.7	3.9	9.2438	1.7880	0.2364	2.0340	3.5221	2.3167	0.1082	1.7966	662.53	3.59	3094.98	2.10	1532.18	4.63
McClure_5_6	Apatite	526.7	3.6	8.8550	1.6595	0.2608	1.6236	4.0509	2.0443	0.1128	1.6646	689.28	3.33	3250.85	1.57	1644.49	4.09
McClure_5_7	Apatite	516.9	3.4	10.4505	1.6744	0.1626	2.0135	2.1540	2.3476	0.0958	1.6747	589.53	3.35	2481.76	2.74	1166.33	4.70
McClure 5 8	Apatite	537.6	3.5	9.7500	1.7021	0.1836	2.0340	2.5998	2.3493	0.1026	1.7072	629.90	3.41	2684.96	2.50	1300.58	4.70
Mean = 526.0 ±	7.4 Ma, MSWI	Mean = 526.0 ± 7.4 Ma, MSWD = 1.15, prob = 0.33	0.33														
Recommended	age mean = 5	123.98 ± 0.12 Mai	Recommended age mean = 523,98 ± 0.12 Ma; Schoene and Bowring, 2006	owring, 2006													

Appendix G: U-Pb geochronology age standards

Analysis																	
	Mineral	207cor 206Pb/238U	207cor 206Pb/238U	238U/206Pb		207Pb/206Pb		207Pb/235U (calc)		206Pb/238U		206Pb/238U		207Pb/206Pb		207 Pb/235U (calc)	
		Age (Ma)	2s%	ratio	18%	ratio	18%	ratio	1s%	ratio	15%	Age (Ma)	2s%	Age (Ma)	2s%	Age (Ma)	2s%
19686_1_1	Titanite	1124.8	5.3	5.2380	2.7335	0.0781	1.5430	2.0602	2.7469	0.1909	2.7488	1126.00	5.50	1148.24	5.34	1135.69	5.49
19686_1_2	Titanite			5.0839	2.7335	0.0781	1.7399	2.1224	2.7469	0.1966	2.7488	1157.16	5.50	1148.17	6.02	1156.13	5.49
19686_1_3	Titanite			4.9592	2.7335	0.0781	1.7448	2.1757	2.7469	0.2015	2.7488	1183.52	5.50	1148.69	6.03	1173.31	5.49
19686_1_4	Titanite	1115.6	5.3	5.2806	2.7335	0.0781	1.2671	2.0432	2.7469	0.1892	2.7488	1117.18	5.50	1148.87	4.38	1130.04	5.49
19686_1_5	Titanite	1114.0	5.3	5.2883	2.7335	0.0781	1.4872	2.0396	2.7469	0.1889	2.7488	1115.65	5.50	1148.41	5.14	1128.82	5.49
19686_1_6	Titanite			5.0302	2.7335	0.0781	1.5391	2.1441	2.7469	0.1986	2.7488	1167.91	5.50	1148.36	5.32	1163.14	5.49
19686_1_7	Titanite	1139.8	2.4	5.1689	1.2879	0.0781	1.2375	2.0826	1.6747	0.1935	1.2600	1140.25	2.52	1148.21	4.28	1143.11	3.35
19686_1_8	Titanite			5.1249	1.2879	0.0781	1.2247	2.0995	1.6747	0.1951	1.2600	1148.89	2.52	1148.19	4.24	1148.65	3.35
19686_1_9	Titanite			5.0798	1.2879	0.0781	1.5308	2.1442	1.6747	0.1970	1.2600	1159.14	2.52	1147.55	5.30	1163.18	3.35
19686_1_10	Titanite	1129.4	2.4	5.2124	1.2879	0.0781	1.2195	2.0667	1.6747	0.1916	1.2600	1130.29	2.52	1147.97	4.22	1137.85	3.35
19686_1_11	Titanite	1126.5	2.4	5.2371	1.2879	0.0781	1.7691	2.0545	1.6747	0.1912	1.2600	1127.64	2.52	1148.59	6.12	1133.80	3.35
19686_1_12	Titanite			5.0577	1.2879	0.0781	1.2141	2.1477	1.6747	0.1974	1.2600	1161.29	2.52	1147.98	4.20	1164.31	3.35
19686_1_13	Titanite			5.0967	1.2879	0.0781	1.2188	2.1134	1.6747	0.1962	1.2600	1154.76	2.52	1148.29	4.22	1153.18	3.35
19686 1 14	Titanite	1133.9	2.4	5.1958	1.2879	0.0781	1.1164	2.0717	1.6747	0.1924	1.2600	1134.63	2.52	1148.29	3.86	1139.48	3.35
Mean = 1144.2 ± 9.3 Ma, MSWD = 0.77, prob = 0.69	Ma, MSWD =	: 0.77, prob = 0.6	99														
Recommended age	age = 1144.6 ± 6.0 Ma,	0 Ma, unpub. ID	unpub. ID-MC-ICP-MS age from Roland Maas	from Roland Maa	, internal	std.											
100606_1_1	Titanite	450.6	5.6	13.3249	2.8382	0.0850	2.6450	0.8818	3.8408	0.0751	2.8654	466.68	5.73	1314.16	7.81	641.94	7.68
100606_1_2	Titanite	461.1	5.6	12.9271	2.8391	0.0894	2.4803	0.9551	3.7616	0.0773	2.8566	480.07	5.71	1411.79	6.72	82.089	7.52
100606_1_3	Titanite	445.3	5.9	12.6809	2.9097	0.1317	3.0357	1.4362	4.0407	0.0789	2.9635	489.48	5.93	2120.55	5.02	904.16	8.08
100606_1_4	Titanite	438.8	3.2	13.2544	1.5618	0.1097	2.6458	1.1469	3.0540	0.0755	1.5859	468.93	3.17	1793.59	5.37	775.76	6.11
100606_1_5	Titanite	432.9	2.8	13.6149	1.4149	0.1001	2.0756	1.0261	2.5672	0.0735	1.3912	457.25	2.78	1625.95	4.75	717.00	5.13
100606_1_6	Titanite	427.2	2.9	13.6806	1.4550	0.1057	2.1155	1.0722	2.6058	0.0730	1.4470	454.43	2.89	1724.97	4.50	739.83	5.21
100606_1_7	Titanite	430.0	2.7	14.1330	1.3574	0.0745	1.4944	0.7336	2.2349	0.0706	1.3570	440.02	2.71	1054.26	5.71	558.69	4.47
100606 1_8	Titanite	433.2	3.0	13.5905	1.4773	0.1006	2.2024	1.0452	2.7219	0.0736	1.5090	457.86	3.02	1634.64	5.01	726.48	5.44
Mean = 434.5 ± 7.0 Ma, MSWD = 1.3, prob = 0.25	1a, MSWD =	1.3, prob = $0.25$															
Recommended age = 432.02 ± 0.64 Ma; Best, 2012; TIMS	= 432.02 ± 0.	64 Ma; Best, 201	12; TIMS														
	i	;										;					:
FC-3-1-1	Litanite	30.6	16.3	76.2360	3.5132	0.5529	3.6548	1.0023	4.0696	0.0131	3.5259	83.99	7.05	4388.28	2.44	704.96	8.14
FC-3_1_2	Titanite	31.0	11.0	109.5955	3.4801	0.4191	4.0418	0.5263	4.5527	0.0091	3.6162	58.32	7.23	3978.52	3.04	429.38	9.11
FC-3_1_3	Titanite	30.0	8.6	112.9017	3.3126	0.4214	3.4000	0.5155	4.0062	0.0088	3.3263	56.79	6.65	3986.72	2.55	422.15	8.01
FC-3_1_4	Titanite	28.7	11.6	83.3263	2.0680	0.5451	2.7004	0.9014	2.7792	0.0120	2.1265	76.87	4.25	4367.41	1.81	652.50	5.56
FC-3_1_5	Titanite	28.5	8.3	116.0132	2.0934	0.4319	3.1271	0.5118	3.1079	0.0086	2.1869	55.42	4.37	4023.28	2.32	419.66	6.22
FC-3_1_6	Titanite	28.2	10.6	87.1911	1.9917	0.5370	2.5478	0.8534	2.6875	0.0115	1.9750	73.49	3.95	4345.37	1.72	626.54	5.38
FC-3_1_7	Titanite	26.3	8.4	113.8746	1.9911	0.4703	2.6635	0.5736	2.8855	0.0088	1.9737	56.36	3.95	4150.12	1.90	460.35	2.77
FC-3_1_8	Titanite	30.1	9.1	90.6751	1.9587	0.5035	2.5153	0.7725	2.7755	0.0110	1.9362	70.70	3.87	4250.97	1.74	581.21	5.55
Mean = 28.7 ± 1.4 Ma, MSWD = 1.3, prob = 0.25	a, MSWD = 1.	3, prob = 0.25															
Recommended age = 28.13 ± 0.48 Ma; Daze et al.,	= 28.13 ± 0.4	8 Ma; Daze et al	., 2003; TIMS														
Dromedary 1 1	Titanite	100.1	5.8	60.5336	2.8852	0.0917	3.0666	0.2097	4.1909	0.0166	2.9032	105.85	5.81	1460.15	7.98	193.30	8.38
Dromedary 1_2	Titanite	103.3	6.3	52.5315	3.0243	0.1682	3.3292	0.4426	4.1712	0.0190	3.0395	121.55	6.08	2539.53	4.40	372.05	8.34
Dromedary 1 3	Titanite	101.0	6.1	56.3383	2.9821	0.1350	3.4363	0.3308	4.2323	0.0177	2.9979	113.25	0.00	2163.22	5.54	290.18	8.46
Dromedary_1_4	Titanite	99.5	3.2	56.4253	1.5596	0.1458	2.4010	0.3552	2.8306	0.0177	1.5380	113.34	3.08	2296.90	3.59	308.60	5.66
Dromedary 1 5	Titanite	100.1	3.4	53.5158	1.5816	0.1769	2.3163	0.4547	2.7644	0.0187	1.6020	119.25	3.20	2622.84	2.94	380.54	5.53
Dromedary_1_6	Titanite	96.1	2.8	63.7736	1.4121	0.0815	1.9760	0.1772	2.5670	0.0157	1.3883	100.31	2.78	1232.71	6.29	165.68	5.13
Dromedary_1_7	Titanite	98.9	3.5	54.2809	1.6241	0.1760	2.5019	0.4501	2.8822	0.0184	1.6032	117.73	3.21	2614.71	3.19	377.34	5.76
Dromedary_1_8	Titanite	9.66	3.3	54.9021	1.5696	0.1621	2.3464	0.4090	2.8550	0.0182	1.5508	116.13	3.10	2476.63	3.20	348.18	5.71
Mean = 99.0 ± 1.3 Ma, MSWD = 1.08, prob = 0.37	3, MSWD = 1.	.08,  prob = 0.37															
Recommended age = 98.7 ± 0.6 Ma; Khon et al., 1990	= 98.7 ± 0.6	Ma; Khon et al.,	1990														

Appendix G: U-Pb geochronology age standards

Analysis	Mineral	207cor 206Pb/238 U	207cor 206Pb/238 U	238U/206P b		207Pb/206P b		207Pb/235 U (calc)		206Pb/238U		206Pb/238 U		207Pb/206Pb		207Pb/235U (calc)	
		Age (Ma)	2s%	ratio	18%	ratio	18%	ratio	1s%	ratio	1s%	Age (Ma)	2s%	Age (Ma)	2s%	Age (Ma)	2s%
19686_2_1	Titanite	1140.5	2.5	5.1668	1.2704	0.0781	1.8902	2.0909	1.2533	0.1936	1.2638	1140.94	2.53	1148.56	6.54	1145.82	2.51
19686_2_2	Titanite			5.0975	1.2704	0.0781	1.9172	2.1164	1.2533	0.1961	1.2638	1154.52	2.53	1148.47	6.63	1154.17	2.51
19686_2_3	Titanite	1143.4	2.5	5.1493	1.2704	0.0781	1.9583	2.0947	1.2533	0.1941	1.2638	1143.67	2.53	1148.29	6.77	1147.08	2.51
19686_2_4	Titanite			5.0712	1.2704	0.0781	1.9321	2.1295	1.2533	0.1972	1.2638	1160.17	2.53	1148.49	6.68	1158.44	2.51
19686_2_5	Titanite	1118.3	2.5	5.2701	1.2704	0.0781	1.9881	2.0488	1.2533	0.1897	1.2638	1119.77	2.53	1148.36	6.88	1131.90	2.51
19686_2_6	Titanite			5.1227	0.6674	0.0781	1.8178	2.1079	0.7079	0.1953	0.7086	1149.82	1.42	1148.49	6.29	1151.40	1.42
19686_2_7	Titanite	1138.9	4.1	5.1707	0.6674	0.0781	1.9175	2.0871	0.7079	0.1933	0.7086	1139.42	1.42	1147.93	6.64	1144.59	1.42
19686_2_8	Titanite			5.0979	0.7184	0.0781	1.3372	2.0993	0.2009	0.1961	0.6984	1154.25	1.40	1148.19	4.63	1148.57	0.40
19686_2_9	Titanite	1133.6	1.4	5.1985	0.7184	0.0781	1.6473	2.0956	0.2009	0.1924	0.6984	1134.38	1.40	1148.15	5.70	1147.37	0.40
19686_2_10	Titanite	1147.4	1.4	5.1327	0.7184	0.0781	1.3266	2.1024	0.2009	0.1948	0.6984	1147.49	1.40	1148.00	4.59	1149.58	0.40
19686_2_11	Titanite	1142.2	1.4	5.1566	0.7184	0.0781	1.3443	2.0928	0.2009	0.1939	0.6984	1142.53	1.40	1147.94	4.65	1146.45	0.40
19686_2_12	Titanite	1144.2	1.4	5.1476	0.7184	0.0781	1.3288	2.0976	0.2009	0.1943	0.6984	1144.44	1.40	1148.10	4.60	1148.03	0.40
Mean = 1144.4 ± 5.4, MSWD = 0.80, prob = 0.64	.4, MSWD = 0.	80, prob = 0.64															
Recommended age = 1144.6 ± 6.0 Ma, unpub. ID-MC-ICP-MS age from Roland Maas,	te = 1144.6 ± 6	.0 Ma, unpub. ID-	MC-ICP-MS age	from Roland Maa	ıs, internal sto	ld.											
100606 2 1	Titanite	440.8	3.1	13.3837	1.5351	0.0979	2.8915	1.0106	3.0960	0.0747	1.5464	464.13	3.09	1584.51	6.82	709.15	6.19
100606 2 2	Titanite	447.1	3.5	12.1852	1.6646	0.1617	2.7067	1.8446	2.9076	0.0825	1.6663	511.26	3.33	2473.05	3.69	1061.49	5.82
100606_2_3	Titanite	436.8	2.8	13.9867	1.3862	0.0720	1.8736	0.7122	2.3227	0.0716	1.4061	445.56	2.81	985.09	7.74	546.06	4.65
100606_2_4	Titanite	438.3	3.5	13.2128	1.7154	0.1120	3.4065	1.1717	3.5473	0.0756	1.7126	469.89	3.43	1831.72	6.74	787.44	7.09
100606_2_5	Titanite	429.9	2.4	13.6660	1.1330	0.1029	2.6932	1.0581	2.6475	0.0733	1.1936	455.72	2.39	1677.05	5.93	732.90	5.30
100606 2 6	Titanite	426.6	1.9	13.6885	0.9138	0.1066	1.9173	1.0774	2.1214	0.0730	0.9016	454.43	1.80	1741.47	4.03	742.35	4.24
Mean = 433.4 ± 7.8, MSWD = 1.7, prob = 0.14	8, MSWD = 1.7,	prob = 0.14															
Recommended age = 432.02 ± 0.64 Ma; Best, 2012; TIMS	ye = 432.02 ± 0	.64 Ma; Best, 201	2; TIMS														
FC-3_2_1	Titanite	30.8	12.4	104.8682	2.9456	0.4421	4.7583	0.5829	4.4537	0.0095	2.9436	61.21	5.89	4058.28	3.49	466.32	8.91
FC-3_2_2	Titanite	29.5	12.1	102.3345	2.6388	0.4676	4.0583	0.6315	3.6518	0.0098	2.8988	65.69	5.80	4141.40	2.91	497.05	7.30
FC-3_2_3	Titanite	33.0	12.3	107.3037	3.1998	0.4043	5.4296	0.5228	4.8641	0.0093	3.3808	59.94	97.9	3924.66	4.16	427.04	9.73
FC-3_2_4	Titanite	27.1	13.7	106.6751	2.7914	0.4836	4.4066	0.6269	3.8478	0.0094	2.9406	60.16	5.88	4191.18	3.11	494.16	7.70
FC-3_2_5	Titanite	30.2	9.5	108.1491	2.1953	0.4381	3.7200	0.5692	3.1687	0.0093	2.1887	59.49	4.38	4044.68	2.74	457.47	6.34
FC-3_2_6	Titanite	31.0	8.9	96.5686	1.7995	0.4706	2.9650	0.6738	2.4892	0.0104	1.8112	66.39	3.62	4151.10	2.12	523.00	4.98
Mean = 30.2 ± 1.3 Ma, MSWD = 1.06, prob = 0.38	Ma, MSWD = 1	1.06, prob = 0.38															
Recommended age = 28.13 ± 0.48 Ma; Daze et al.,	ye = 28.13 ± 0.4	48 Ma; Daze et al.	, 2003; TIMS														
Dromedary_2_1	Titanite	98.3	3.1	63.0086	1.4892	0.0734	3.2589	0.1609	3.4797	0.0159	1.5209	101.52	3.04	1023.63	12.88	151.50	96.9
Dromedary_2_2	Titanite	107.4	6.5	43.2538	2.3374	0.2670	4.4364	0.8554	4.4906	0.0232	2.5178	147.64	5.04	3287.70	4.24	627.60	8.98
Dromedary_2_3	Titanite	103.7	4.3	54.2938	1.9459	0.1452	4.3013	0.3708	4.3959	0.0185	1.9432	118.01	3.89	2289.40	6.46	320.22	8.79
Dromedary_2_4	Titanite	100.6	4.5	53.5130	1.9185	0.1754	3.6335	0.4536	3.6492	0.0187	2.0363	119.58	4.07	2609.27	4.64	379.77	7.30
Dromedary_2_5	Titanite	9.66	2.5	58.1169	1.1494	0.1233	2.6079	0.2947	2.5409	0.0172	1.1684	109.95	2.34	2003.25	4.62	262.21	5.08
Dromedary 2 6	Titanite	92.6	2.8	55.8903	1.2236	0.1791	2.4983	0.4433	2.3941	0.0179	1.2146	114.33	2.43	2643.55	3.14	372.58	4.79
Mean = 99.1 ± 3.3 Ma, MSWD = 3.5, prob = 0.003	Ma, MSWD = 3	3.5, prob = 0.003															

Appendix G: U-Pb geochronology age standards

	Mineral   1	Mineral   Discussion   Discus	3.9 5.167 3.9 5.1787 3.9 5.1787 3.9 5.1787 5.0812 5.0812 5.0812 5.0812 5.0812 5.0812 5.0822	15%	р		U (calc)		206Ph/23811		=		207Pb/206Pb		(calc)	
Table   1989   200   2		19686_3_1 1Tranie 19686_3_2 1Tranie 19686_3_2 1Tranie 19686_3_2 1Tranie 19686_3_3 19686_3_3 1Tranie 19686_3_3 11tranie 19686_3_3 11tranie 19686_3 11tranie 1968 11tranie 1968 11tranie 1968 11tranie 1968 11tranie 1968 11tranie 1968 11tranie 1968 11tranie 1968 11tranie 1968 11tranie 1968 11tranie 1968 11tranie 1968 11tranie 1968 11tranie 1968 11tranie 1968 11tranie 1968 11tranie 1968 11tranie 19686_5_1 1Tranie 9 5.167 3.9 5.1649 3.9 5.1649 3.9 5.1649 5.0706 5.0706 5.0706 5.0552 3.9 5.1656 5.0552 3.9 5.1656	18%					2001 10020						, , ,		
	Timele	19686.3_1 Titanite 19686.3_2 Titanite 19686.3_2 Titanite 19686.3_2 Titanite 19686.3_2 Titanite 19686.3_1 Titanite 19686.3_2 Titanite 19686.3_2 Titanite 19686.3_2 Titanite 19686.3_2 Titanite 19686.3_2 Titanite 19686.3_3 Tit	3.9 5.1467 3.9 5.1489 5.0417 5.0706 3.9 5.477 5.0522 3.9 5.0562 3.9 5.0562 3.9 5.0622	00000		1s%	ratio	1s%	ratio	1s%	Age (Ma)	2s%	Age (Ma)	2s%	Age (Ma)	2s%
	Timele   1504   2.089   0.0773   16779   2.089   0.0773   16779   2.089   0.0773   1779   1	19686.3.2 Triante 11374 3.9 19686.3.3 Triante 11406 3.9 19686.3.5 Triante 11406 3.9 19686.3.4 Triante 11406 3.9 19686.3.5 Triante 11686.3.5 Triante 11686.3.5 Triante 11686.3.6 Triante 1139.0 3.9 19686.3.1 Triante 1139.0 3.9 19686.3.1 Triante 1139.0 3.9 19686.3.1 Triante 1438.7 4.5 100006.3.1 Triante 445.7 4.5 100006.3.1 Triante 445.7 4.5 100006.3.3 Triante 445.7 4.5 100006.3.3 Triante 445.7 4.5 100006.3.3 Triante 28.1 Triante 445.7 4.5 100006.3.4 Triante 28.1 Triante 29.1 Triante 2	3.9 5.1629 3.9 5.1649 5.0812 3.9 5.4177 5.0552 3.9 5.0552 3.9 5.0552 5.0552 5.0552	Z.0005	0.0778	1.8477	2.1090	2.0306	0.1953	2.0268	1150.28	4.05	1141.16	6.44	1151.74	4.06
		1986.5.3.4 Titanite 1137.4 3.9 1986.5.3.4 Titanite 1140.6 3.9 1986.5.3.5 Titanite 1140.6 3.9 1986.5.3.6 Titanite 1189.0 3.9 1986.5.3.9 Titanite 1189.0 3.9 1986.6.3.9 Titanite 1189.0 3.9 1986.6.3.9 Titanite 1189.0 3.9 1986.6.3.9 Titanite 1189.0 3.9 1986.6.3.1 Titanite 2.83.7 4.1  Mean = 14.4.4.4.4.4.4.4.4.4.4.4.4.4.4.4.4.4.4.	3.9 5.1797 3.9 5.1649 5.0812 5.0702 3.9 5.4177 5.0552 3.9 5.0552 5.0552 5.0552 5.0552		0.0778	1.8726	2.0914	2.0306	0.1937	2.0268	1141.62	4.05	1141.61	6.52	1145.99	4.06
		19866_3_4   Titantie   1140_6   39   19866_3_5   Titantie   1088.3   39   19866_3_5   Titantie   1088.3   39   19886_3_4   Titantie   1088.3   39   19886_3_4   Titantie   1139.0   39   19886_3_4   Titantie   1139.0   39   19886_3_4   Titantie   1139.0   39   19886_3_4   Titantie   1139.0   39   19886_3_4   Titantie   448.7   4.5   1000060_3_4   Titantie   28.1   17.8   17.	3.9 5.1649 5.0812 5.0706 3.9 5.0705 3.9 5.1656 5.0552 5.0552 5.0552 5.0552		0.0780	1.6687	2.0840	2.0306	0.1930	2.0268	1137.84	4.05	1144.73	5.79	1143.56	4.06
	Times   1199   20082   20089   0.0781   1879   2.1035   0.0309   1977   2.0089   1977   2.0089   0.0781   1879   2.1035   2.0099   0.0781   1879   2.1035   2.0099   0.0781   1879   2.1035   2.0099   0.0781   1879   2.1035   2.0099   0.0781   1879   2.1035   2.0099   0.0781   1879   2.1035   2.0099   0.0781   1879   2.1035   2.0099   0.0781   1879   2.1035   2.0099   0.0781   1879   2.1035   2.0099   0.0781   1879   2.1035   2.0099   0.0781   1879   2.1035   2.0099   0.0791   1879   2.1035   2.0099   0.0791   2.1035   2.0099   0.0794   1.0794   2.1035   2.0099   0.0794   1.0794   2.1035   2.0099   0.0794   1.0794   2.1035   2.0099   0.0794   2.1035   2.0099   0.0794   2.1035   2.0099   0.0794   2.1035   2.0099   0.0795   2.1035   2.0099   0.0795   2.1035   2.0099   0.0795   2.1035   2.0099   0.0795   2.1035   2.0099   0.0795   2.1035   2.0099   0.0795   2.1035   2.0099   0.0795   2.1035   2.0099   0.0795   2.1035	1986.3_5   Triante   1986.3_6     1986.3_6   Triante   1988.3   3.9     1986.3_8   Triante   1988.3   3.9     1986.3_1   Triante   1988.3   3.9     1986.3_1   Triante   1988.3   3.9     1986.3_1   Triante   1988.3   3.9     1986.3_2   Triante   1988.7   4.5     1006.06_3_2   Triante   445.7   4.5     1006.06_3_3   Triante   445.7   4.5     1006.06_3_3   Triante   438.7   4.1     1006.06_3_3   Triante   438.7   4.1     1006.06_3_3   Triante   438.7   4.1     1006.06_3_3   Triante   438.7   4.1     1006.06_3_3   Triante   28.1   17.6     100.06_3_3   Triante   105.9   5.8     100.06_3_3   Triante   105.9   5.8     100.06_3_3   Triante   105.9   5.8     100.06_3_3   Triante   105.9   5.8     100.06_3_3   Triante   106.5   5.1     100.06_3_3   Triante   106.5   1.5     100.06_3   Triante   106.5   1	5.0812 5.0706 3.9 5.0477 3.9 5.1656 5.0552 5.0522 5.0622		0.0780	1.8666	2.0900	2.0306	0.1936	2.0268	1140.83	4.05	1144.89	6.48	1145.53	4.06
	Titushe   1983   3 9   5 7070   2 1889   0 07031   1882   2 1735   2 1735   0 01045   1883   1881   2 1735   0 01045   1883   1881   2 1735   2 1	1986 6 3 - 6   Triante   1088 3   3.9     1986 6 3 - 7   Triante   1088 3   3.9     1986 6 3 - 8   Triante   1139.0   3.9     1986 6 3 - 1   Triante   1139.0   3.9     1986 6 5 - 1   Triante   1139.0   3.9     1986 6 5 - 1   Triante   1139.0   3.9     1986 6 5 - 1   Triante   1139.0   3.9     1986 6 5 - 1   Triante   1139.0   3.9     1986 6 5 - 1   Triante   1139.0   3.9     1986 6 5 - 1   Triante   1139.0   3.9     1986 6 5 - 1   Triante   1139.0   3.9     1986 6 5 - 1   Triante   1105.9   3.9     1986 6 5 - 1   Triante   1105.9   3.9     1986 6 5 - 1   Triante   105.9   3.9     1986 6 5 - 1   Triante   1105.9   5.4     1986 7 - 1   Triante   1105.7	3.9 5.0706 5.0552 3.9 5.1656 5.0522 5.0522		0.0781	1.8739	2.1238	2.0306	0.1967	2.0268	1157.77	4.05	1148.13	6.48	1156.59	4.06
	Times   1983   3 6 4477   21889   0.0772   1.879   2.0000   0.1973   0.1973   0.19	1986   3   7   Titantie   1088 3   3.9     1986   3   8   Titantie   1139 0   3.9     1988   3   10   Titantie   1139 0   3.9     1988   3   10   Titantie   1139 0   3.9     1988   2   10   Titantie   1445   7   4.5     1980   3   1   Titantie   445   7   4.1     1980   2   1   Titantie   28   1   17.6     1980   2   1   Titantie   28   1   17.6     1980   3   1   Titantie   105   5.8     1980   3   1   Titantie   105   5.8     1980   3   1   Titantie   100   9     1980   3   1   Titantie   110   7   5.4     1980   5   1   Titantie   110   7   5.4     10   10   10   10   10   10   10	3.9 5.4177 5.0552 3.9 5.1656 5.0522 S. are from Roland M		0.0781	1.8821	2.1275	2.0306	0.1971	2.0268	1159.56	4.05	1148.09	6.51	1157.79	4.06
	Timesine   1199   5 10502   2 10880   0.0794   18790   2 1080   0.0794   2 1080   2 1080   0.0794   0.0794	19866_3_9   Titantie   1139.0   3.9     19866_3_9   Titantie   1139.0   3.9     19866_5_3   Titantie   1139.0   3.9     19866_5_3   Titantie   1.89   prob = 0.65   prob = 0.65   prob = 0.65   prob = 0.65   prob = 0.65   prob = 0.65   prob = 0.65   prob = 0.65   prob = 0.65   prob = 0.65   prob = 0.75   prob	5.0552 3.9 5.1656 5.0522 5.0620 S. age from Roland M		0.0782	1.3353	1.9910	2.0306	0.1845	2.0268	1091.28	4.05	1151.19	4.61	1112.45	4.06
		1986 6 3 - 9   Titantie   1139.0   3.9     1986 6 5 3 - 10   Titantie   1139.0   3.9     1986 6 5 3 - 10   Titantie   1.8     1986 6 5 8	3.9 5.1656 5.0522 ane from Roland M		0.0782	1.8851	2.1349	2.0306	0.1978	2.0268	1163.31	4.05	1151.88	6.50	1160.17	4.06
		19686 5 3 1 0   Triante   1144 ± 14 Ma, MSWVB = 0.83, prob = 0.83	5.0522 S age from Roland M		0.0784	1.6219	2.0882	2.0306	0.1934	2.0268	1139.77	4.05	1154.94	5.57	1144.93	4.06
		Mean = 1144 ± 14 Ma, MSWD = 0.89, prob = 0.63   Main	S age from Roland M		0.0784	1.8796	2.1355	2.0306	0.1978	2.0268	1163.64	4.05	1154.95	6.46	1160.38	4.06
	The part   1,25   1,2	Titanite   428.7   46	S age from Roland M													
	Timelie   4287   465   136178   23411   0.1079   31850   1.0866   3.6811   0.0756   2.2846   4.975	1 Trianite 428.7  3 Trianite 445.7  18 8 9.8 Ma, MSWD = 0.40, prob = 0.75  Finder age = 43.02 + 0.64 Ma; Brest_2012; TIMS  Trianite 28.1  Trianite 28.1  Trianite 28.1  Trianite 28.1  Trianite 28.1  Trianite 28.7  3.4 Trianite 98.1  3.4 Trianite 100.9  9.1.2.6 Ma; MSWD = 2.4, prob = 0.069  Intentite 1134.3  Trianite 1119.7  Trianite 1119.7  Trianite 1119.7  Trianite 1119.7  Trianite 1119.7  Trianite 1119.7  Trianite 1119.7  Trianite 1119.7  Trianite 1119.7  Trianite 1119.7  Trianite 1119.7  Trianite 1119.7  Trianite 1119.7  Trianite 1119.7		laas, internal s	std.											
		1. Triantie 445.7  3 Triantie 445.7  4 Triantie 435.6  4 Triantie 438.7  58.4.9.8 Ma, MSWD = 0.40, prob = 0.75  mod age = 432.02.4.0.4 Ma, Best, 2012, TIMS  Triantie 28.1  Triantie 28.1  Triantie 28.7  Triantie 28.7  Triantie 105.9  3 Triantie 95.7  94.1  Triantie 100.9  94.2.6 Ma, MSWD = 2.4, prob = 0.069  Triantie 100.9  14 Triantie 100.9  14 Triantie 113.7  Triantie 1119.7  Triantie 1119.7  Triantie 1119.7  Triantie 1119.7  Triantie 1110.7  Triantie 1110.7  Triantie 1110.7  Triantie 1110.7  Triantie 1110.7  Triantie 1110.7  Triantie 1110.7			0 1070	0.40	0000	4,000	90.035	7,000	467.00	70	176074	q	75.035	7
	Time   4355   43   43   43   43   43   43	2 Triantie 455.6  4 Triantie 458.7  5.8 ± 9.8 Ma, MSWD = 0.40, prob = 0.75  mod age = 432.02 ± 0.64 Ma; Best, 2012; TIMS  Triantie 28.1  Triantie 28.1  Triantie 28.1  Triantie 28.1  Triantie 28.1  Triantie 28.1  Triantie 28.1  Triantie 28.1  Triantie 105.9  3.2  Triantie 99.7  Triantie 103.7  Triantie 1134.3  Triantie 1134.3  Triantie 1119.7  Triantie 1119.7  Triantie 1140.5  Triantie 1140.5			0.1079	0.1000	1.0960	0.091	0.0756	2.3047	457.29	0.4	1,02.74	0.00	710.56	00.7
1		## Titantie 488.7  ## Titantie 488.7  ## Titantie 28.2  ## Titantie 28.2  ## Titantie 28.2  ## Titantie 28.2  ## Titantie 28.3  ## Titantie 28.3  ## Titantie 28.3  ## Titantie 28.3  ## Titantie 39.7  ## Titantie 39.7  ## Titantie 39.7  ## Titantie 39.7  ## Titantie 105.9  ## Titantie 105.9  ## Titantie 1134.3  ## Titantie 1119.7			0.0307	4.0635	1 2735	7.3763	0.0764	2.4289	472.56	10.1	1030.10	7 3.4	833.06	5 8
	The color   Color	18			0.0719	1.8256	0.7122	2.7413	0.0719	2.0953	447.39	4.19	981.89	7.57	546.06	5.48
The part   20   20   20   20   20   20   20   2	Titantie   284   114   107.0533   31.288   0.4393   41.887   0.5892   4.0008   0.0094   31.624   60.01     Titantie   284   114   107.0533   31.288   0.4393   41.887   0.5892   4.0008   0.0094   31.624   60.01     Titantie   284   125   12.8845   3.207   0.4488   4.4421   0.5892   0.9747   3.744   0.0125   31.875   80.12     S. 1   S. 1   S. 1   S. 2   3.207   0.4488   4.4421   0.5892   0.9747   3.744   0.0128   3.3875   80.12     S. 1   S. 1   S. 2   3.207   0.4488   4.4421   0.5892   0.9784   4.0233   0.0109   3.4598   7.001     S. 1   S. 1   S. 2   S.	### 178   Triante   30.4   Titante   28.1   Titante   28.2   Titante   28.2   Titante   28.2   Titante   27.9   #### 1.9 Ma, MSWD = 0.38, prob = 0.76   #### 2.3   Titante   105.9   ### 3.3   Titante   98.7   ### 3.4   Titante   98.1   ### 3.4   Titante   113.9   ### 3.4   Titante   113.0   ### 3.4   Titante   113.0   Titante   113.1   Titante   113.1   Titante   113.1   Titante   113.1   Titante   113.1   Titante   113.1   Titante   113.1   Titante   1145.5   Titante   1140.5   Titan					!	i	2			2				:
Timele   20.4   11.4   107.0533   31.208   0.05503   4.1687   0.05902   4.00004   0.01563   31.605   0.00004   31.652   0.000	Titantie   20.4   11.4   107.0633   3.1288   0.4393   4.1687   0.5692   4.0608   0.0094   3.1624   6.001   6.600   6	Titanite 28.1  Titanite 28.2  Titanite 28.2  Titanite 27.9  8.1.5 Ma, MXVD = 0.39, prob = 0.76  a1 Titanite 105.9  3.2 Titanite 95.7  3.4 Titanite 98.1  3.4 Titanite 100.9  9.1.5.6 Ma, MXVD = 2.4, prob = 0.069  Intanite 1134.3  Titanite 1119.7  Titanite 1119.7  Titanite 1119.7  Titanite 1119.7  Titanite 1140.5  Titanite 1140.5  Titanite 1140.5  Titanite 1140.5														
Thunke   22   123   126842   2307   0.6896   3.882   0.947   3.794   0.075   3.187   0.099   3.287   0.996   4.479   0.099   3.287   0.996   4.479   0.996   4.479   0.996   4.479   0.996   4.479   0.996   4.479   0.996   3.287   0.996   4.479   0.996   4.479   0.996   3.287   0.996   4.479   0.996   3.287   0.996   4.479   0.996   4.479   0.996   3.287   0.996   3.287   0.996   4.479   0.996   4.479   0.996   4.479   0.996   3.286   4.479   3.286   4.479		Titanite 28.1  Titanite 28.2  Titanite 27.9  8 ± 1.9 Ma, MSWD= 0.39, prob = 0.76  and Titanite 105.9  3 ± Titanite 96.7  3 ± Titanite 100.9  9 ± 2.6 Ma, MSWD = 24, prob = 0.69  Titanite 1134.3  Titanite 1119.7  Titanite 1119.7  Titanite 1119.7  Titanite 1119.7  Titanite 1140.5  Titanite 1140.5  Titanite 1140.6	,	3.1298	0.4393	4.1687	0.5692	4.0608	0.0094	3.1624	60.01	6.32	4048.57	3.07	457.47	8.12
Figure   22   12   12   12   12   12   12   1	Titanile   28   12   112 8345   3 2607   0 4468   4421   0 5469   44719   0 00089   3 2961   56 88     Filanile   28   15   15   14188   3 1773   0 246   4 1227   0 07894   4 0293   0 0109   3 14439   7001     Filanile   28   2 26024   2 4470   0 1789   3 2145   0 4692   3 6104   0 01081   2 3864   1153.2     Filanile   26   2 26024   2 4470   0 1789   3 2456   0 0109   3 2614   0 01081   2 3864   1153.2     Filanile   26   2 26024   2 4470   0 1789   3 2475   0 0479   3 2614   0 01081   2 2865   1153.2     Filanile   26   2 26024   2 4470   0 1789   3 2475   0 0479   3 2614   0 0481   2 2865   0 1753   3 2645   0 1753   3 2645   0 1753   3 2645   0 1753   3 2645   0 1753   3 2645   0 1753   3 2645   0 1753   3 2645   0 1753   3 2645   0 1753   3 2645   0 1753   3 2645   0 1753   3 2645   0 1753   3 2645   0 1753   0 1754   0	Titante 28.2 Titante 27.9 Titante 27.9  2.1 Titante 105.9 prob = 0.76  3.2 Titante 105.9  3.4 Titante 105.9  9.1.6 Ma, MSWD = 2.4, prob = 0.069  nded age = 90.7 ± 0.6 Me; Kiton et al., 1990  Titante 1134.3  Titante 1119.7  Titante 1119.7  Titante 11103.7  Titante 11103.7  Titante 11103.7  Titante 11103.7  Titante 1140.5  Titante 1140.5  Titante 1140.5			0.5630	3.8832	0.9747	3.7544	0.0125	3.1875	80.12	6.37	4414.73	2.57	690.86	7.51
155   14.188   3.1713   0.5246   4.1227   0.7894   4.0203   0.0109   3.1439   70.01   6.29   431131   2.81   590.83     5.1   5.5 40.24   2.4470   0.1789   3.2115   0.4892   3.6104   0.0181   2.3954   115.22   4.79   2.667.75   3.95   3.8357     4.9   5.6 4.698   2.3908   0.1789   3.2115   0.4892   3.6104   0.0181   2.3954   115.22   4.79   2.667.75   3.95   3.8357     5.2 4.0   2.8155   0.1781   1.8952   2.177   2.8235   0.1981   1.15.20   4.70   2.8139   1.15.20   4.70   2.3958   4.99   3.2103     5.2 4   5.1981   2.8155   0.0778   1.8952   2.177   2.8235   0.1981   1.15.20   1.15.20   1.15.20   1.15.20     5.4   5.1981   2.8155   0.0778   1.1268   2.8235   0.1981   1.15.20   1.15.20   1.15.20   1.15.20     5.4   5.1981   2.8155   0.0778   1.1268   2.8235   0.1981   1.15.70   1.15.20   1.15.20   1.15.20     5.4   5.3374   2.8155   0.0778   1.1268   2.8235   0.1981   1.15.70   1.15.70   1.15.20   1.15.70     5.4   5.1982   0.0778   1.1268   2.8235   0.1981   1.15.70   1.15.70   1.15.70   1.15.70     5.4   5.1982   0.0778   1.1278   2.8835   0.1982   0.1980   0.198	15.5 91.4188 3.1713 0.5246 4.1227 0.7894 4.0293 0.0199 3.1439 70.01  5.8 50.4832 2.6977 0.1795 4.3026 0.4938 4.7459 0.0198 2.6515 126.65  5.1 55.4024 2.4470 0.1893 3.3163 0.3051 3.7922 0.0171 2.3991 115.22  4.9 58.4698 2.3908 0.1492 3.4010 0.3719 3.9154 0.0181 2.3954 115.22  5.1 02 2.8155 0.0781 1.8562 2.1177 2.8235 0.1967 2.8139 1135.10  5.4 5.1967 2.8155 0.0781 1.8563 2.0785 2.8235 0.1967 2.8139 1135.10  5.4 5.2896 2.8155 0.0781 1.8563 2.1832 0.1967 2.8139 1135.10  5.4 5.2896 2.8155 0.0781 1.8563 2.8235 0.1967 2.8139 1105.85  5.4 5.2896 2.8155 0.0781 1.8589 2.8235 0.1967 2.8139 1105.85  5.4 5.1967 0.0781 1.2788 2.0892 0.7638 0.1945 0.7589 1140.87  5.165 0.7673 0.0781 1.2788 2.0899 0.7638 0.1945 0.7580 1140.87  5.165 0.7673 0.0781 1.2789 2.0899 0.7638 0.1945 0.7580 1140.87  5.165 0.7673 0.0782 1.2879 2.0891 0.7638 0.1945 0.7580 1140.87  5.165 0.7673 0.0782 1.2879 0.7638 0.1945 0.7580 1140.87  5.165 0.7673 0.0782 1.2879 2.0899 0.7638 0.1945 0.7580 1140.87  5.165 0.7673 0.0782 1.2879 2.0899 0.7638 0.1945 0.7580 1140.87  5.165 0.7673 0.0782 1.2879 2.0899 0.7638 0.1945 0.7580 1140.87  5.165 0.7673 0.0782 1.2879 2.0899 0.7638 0.1945 0.7580 1140.87  5.165 0.7673 0.0782 1.2879 2.0899 0.7638 0.1945 0.7580 1140.87  5.165 0.7673 0.0782 1.2879 2.0899 0.7638 0.1945 0.7580 1140.87  5.165 0.7673 0.0782 1.2879 2.0899 0.7638 0.1945 0.7580 1140.87  5.165 0.7673 0.0782 1.2879 2.0899 0.7638 0.1945 0.7580 1140.87	1990			0.4468	4.4421	0.5469	4.4719	0.0089	3.2951	56.88	6:28	4074.05	3.25	442.98	8.94
5.8 50.4832 2.6877 0.1795 4.3028 0.4898 4.7459 0.0198 2.6815 128.65 5.30 284.777 5.39 407.49 5.1 56.4024 2.4470 0.1839 3.2115 0.4892 3.6104 0.0181 2.2894 115.32 4.79 2.887.75 3.95 38.67 5.1 56.4024 2.4470 0.1839 3.2115 0.4892 3.6104 0.0181 2.2894 115.32 4.79 2.887.75 3.95 3.88.67 5.1 56.4024 2.4470 0.1839 3.2115 0.4892 0.0071 2.2894 115.52 4.70 2.288.75 3.95 2.70.41 5.5 5.5 5.5 1 2.4038 0.1492 3.4010 0.3719 3.9154 0.0181 2.2891 116.32 4.70 2.288.76 4.98 5.4 5.5 5.5 1 2.4038 0.0781 1.8962 2.1171 2.8235 0.1961 2.8139 115.10 5.63 1149.92 6.42 1141.76 5.4 5.2 5.8 5.2 5.0 0.78 1 1.8 5.0 2.2 2.2 2.2 2.2 2.2 2.2 2.2 2.2 2.2 2	5.8         50.4832         2.6877         0.1795         4.3026         0.4838         4.7459         0.0188         2.6515         12665           6.1         55.4024         2.4470         0.1839         3.2115         0.4952         3.6104         0.0181         2.3854         115.32           4.9         56.4688         2.3908         0.1293         3.3563         0.3051         3.7922         0.0171         2.3991         109.21           4.9         56.4688         2.3908         0.1293         3.3563         0.3051         3.7922         0.0171         2.3991         109.21           4.9         56.4688         2.3908         0.1293         3.3563         0.3051         3.7922         0.0171         2.3991         109.21           4.9         56.4688         2.3908         0.1492         3.4010         0.3719         3.9154         0.0181         15.82           5.4         5.1402         2.8155         0.0781         1.8663         2.1771         2.8235         0.1961         2.8139         115.24           5.4         5.1467         2.8155         0.0781         1.8663         2.1892         2.8235         0.1961         2.8139         116.506	1990 1990 1990 1990 1990 1990 1990 1990			0.5246	4.1227	0.7894	4.0293	0.0109	3.1439	70.01	6.29	4311.31	2.81	590.83	8.06
558         50.4832         2.6977         0.1795         4.3026         0.4938         4.7459         0.0198         2.6515         126.65         5.30         264.777         5.39         407.49           4.9         56.4024         2.4470         0.1893         3.215         0.4592         3.6104         0.0181         2.3964         115.32         4.79         2.687.75         3.95         3.93.67           4.9         56.3861         2.4470         0.1893         3.2165         0.3051         3.7922         0.0171         2.3961         10921         4.70         2.087.76         3.95         3.0101           4.9         56.3861         2.4038         0.1482         3.4010         0.3719         3.9154         0.0181         1.3862         4.70         2.3863         4.96         2.0171           5.4         5.1002         2.8155         0.0781         1.8662         2.1771         2.8155         0.1961         2.8159         115.22         4.70         2.286.36         4.96         4.70         2.286.36         4.96         2.076         2.8178         2.8139         115.22         4.70         2.286.36         4.96         2.076.36         2.0101         115.22         4.70         2.286.36<	5.8         50.4832         2.6977         0.1795         4.3026         0.48938         4.7459         0.0199         2.6515         126.65           4.9         56.4024         2.4906         0.1839         3.2115         0.4892         3.6104         0.0181         2.3954         115.32           4.9         56.4868         2.3406         0.1839         3.2115         0.4892         3.6104         0.0181         2.3954         115.22           1890         55.3681         2.4038         0.1492         3.4010         0.3719         3.9154         0.0181         2.3951         109.21           5.4         5.1907         2.8155         0.0781         1.8663         2.0785         2.8235         0.1961         2.8139         115.438           5.4         5.1967         2.8155         0.0781         1.8663         2.0785         2.8235         0.1961         2.8139         115.24           5.4         5.1967         2.8155         0.0782         1.8663         2.0785         2.8235         0.1961         2.8139         115.24           5.4         5.1967         2.8155         0.0782         2.1877         2.0202         2.8235         0.1961         2.8139         1165.06 <th>060</th> <th>S</th> <th></th>	060	S													
5.4         5.5,4024         2,470         0.1839         3.2115         0.4592         3.6104         0.0181         2.3964         115.32         4.79         2687.75         3.95         383.67           4.9         5.6,4698         2.3908         0.1293         3.3762         0.071         2.3964         115.22         4.70         2.3963         4.99         2.0474           4.9         5.5,381         2.4038         0.1293         3.3762         0.071         2.3964         115.22         4.70         2.396.3         4.98         2.7041           5.4         5.3681         2.4038         0.1781         2.8655         2.1771         2.8255         0.1981         2.8139         115.28         4.70         2.396.3         4.98         2.7041           5.4         5.1961         2.8155         0.0781         1.8662         2.8235         0.1961         2.8139         115.43         6.6         4.98         115.44           5.4         5.361         2.8155         0.0781         1.8663         2.8235         0.1981         1.815.29         1.144.92         6.49         4.98         1.144.41           5.4         5.361         5.361         2.8139         1.145.28         6	5.1         55,4024         2,4470         0,1839         3,215         0,4952         3,6104         0,0181         2,3964         115,32           4.9         58,4698         2,3908         0,1293         3,3563         0,3719         3,9154         0,0181         2,3991         109,21           4.9         56,3681         2,4008         0,1293         3,3563         0,3719         3,9154         0,0181         2,3991         109,21           5.4         5,1002         2,8155         0,0781         1,8663         2,1771         2,8235         0,1961         2,8139         115,52           5.4         5,1967         2,8155         0,0781         1,8663         2,1875         0,1961         2,8139         115,52           5.4         5,1967         2,8155         0,0781         1,8663         2,1835         0,1961         2,8139         115,50           5.4         5,344         2,8155         0,0781         1,8663         2,0825         0,1961         2,8139         1165,08           5.4         5,445         0,0781         1,266         2,0825         0,1961         2,8139         1165,08           6.4         5,446         2,8155         0,0781         1,	0881			0.1795	4.3026	0.4938	4.7459	0.0198	2.6515	126.65	5.30	2647.77	5.39	407.49	9.49
4.9         58.4698         2.3908         0.1293         3.3563         0.3051         3.7822         0.0171         2.3961         115.52         4.70         2396.36         56.5         270.41           4.90         55.5881         2.4038         0.1492         3.4010         0.3714         3.9154         0.0181         2.3515         115.52         4.70         2396.36         5.65         270.41           4.90         55.5881         2.4038         0.1482         0.0181         2.8158         0.146.2         2.8139         115.43         6.63         1148.92         6.42         1144.41           5.4         5.1467         2.8156         0.0781         1.8862         2.7325         0.1981         2.8139         115.43         6.63         1144.41           5.4         5.1467         2.866         2.8235         0.1981         2.8139         115.40         6.63         1144.41           5.4         5.1467         2.866         2.8235         0.1981         2.8139         1165.48         6.63         1144.41           5.4         5.1467         0.7881         1.2882         2.8235         0.1981         2.8139         1165.78         6.63         1144.75         7.72	4.9         58.4688         2.3908         0.1293         3.3663         0.3051         3.7922         0.0171         2.3991         109.21           1990         55.3861         2.4038         0.1492         3.4010         0.3719         3.9154         0.0181         2.3915         115.52           1990         1.000	1890			0.1839	3.2115	0.4592	3.6104	0.0181	2.3954	115.32	4.79	2687.75	3.95	383.67	7.22
4.9         55.38H         24.03B         0.1492         3.9154         0.0181         2.3515         4.70         236.36         4.98         231.03           1992         4.538         6.538H         2.413B         2.417H         2.8235         0.1961         2.8139         115.24         6.63         1148.92         6.45         1141.76           5.4         5.1902         2.8156         0.0781         1.8663         2.1375         2.8235         0.1961         2.8139         115.13         6.63         1148.92         6.45         1141.76           5.4         5.1961         2.8156         0.0781         1.8663         2.1875         0.1961         2.8139         115.13         6.63         1144.82         6.45         1141.76           5.4         5.1961         2.8235         0.1961         2.8139         115.13         6.63         1141.75         1141.76           5.4         5.444         2.8155         0.0781         1.2869         2.1803         0.1981         0.1981         115.34         6.43         1141.46           5.4         5.1464         2.8155         0.0781         1.2869         2.8235         0.1991         2.8139         115.10         5.63	4.9         56.3881         2.4038         0.1492         3.4010         0.3719         3.9154         0.0181         2.3515         115.52           1892         5.4         5.1002         2.8155         0.0781         1.8663         2.1171         2.8235         0.1961         2.8139         1154.38           5.4         5.1961         2.8155         0.0781         1.8663         2.1771         2.8235         0.1961         2.8139         1154.38           5.4         5.1961         2.8155         0.0782         1.8663         2.0785         2.8235         0.1961         2.8139         1154.38           5.4         5.2496         2.8155         0.0782         2.187         2.0602         2.8235         0.1961         2.8139         1152.43           5.4         5.344         2.8155         0.0782         2.157         2.0602         2.8235         0.1961         2.8139         1152.43           1.5         5.1407         0.7673         0.0781         1.286         2.1823         0.1991         2.8139         1165.06           1.5         5.1654         0.7673         0.0781         1.2748         2.0893         0.7638         0.1945         0.7580         1140.87	0661			0.1293	3.3563	0.3051	3.7922	0.0171	2.3991	109.21	4.80	2087.80	5.65	270.41	7.58
5.4         5.1002         2.8155         0.0781         1.8562         2.1171         2.8235         0.1961         2.8139         1154.38         5.63         1148.92         6.42         1154.41           5.4         5.1961         2.8155         0.0781         1.8662         2.1171         2.8235         0.1961         2.8139         1154.06         5.63         1149.26         6.45         1141.76           5.4         5.1961         2.8155         0.0782         2.187         2.8235         0.1981         2.8139         115.10         5.63         1151.73         6.40         1161.46           5.4         5.296         2.8155         0.0782         2.187         2.8235         0.1991         2.8139         1165.06         5.63         1151.73         6.40         1161.46           5.4         5.296         2.8155         0.0781         1.2869         2.1803         2.8235         0.1901         2.8139         1165.8         5.63         1148.03         6.45         1174.76           5.4         5.3374         2.8155         0.0781         1.2869         2.7835         0.1945         0.7580         1146.77         1.52         147.36         4.41         1144.87	5.4         5.1002         2.8155         0.0781         1.8562         2.1171         2.8235         0.1961         2.8139         1154.38           5.4         5.1961         2.8155         0.0781         1.8663         2.0785         2.8235         0.1961         2.8139         1154.38           5.4         5.0414         2.8155         0.0782         1.8565         2.1389         2.8235         0.1961         2.8139         1155.0           5.4         5.2866         2.8155         0.0782         2.157         2.0602         2.8235         0.1901         2.8139         115.24           5.4         5.2866         2.8155         0.0781         1.266         2.0823         0.2019         2.8139         115.24           1.5         5.1407         0.7873         0.0781         1.268         2.0823         0.1901         2.8139         1165.06           1.5         5.1407         0.7873         0.0781         1.2786         2.0893         0.7638         0.1945         0.7580         1140.87           5.0765         0.7673         0.0781         1.2748         2.0899         0.7638         0.1946         0.7580         1140.87           5.1823         0.7673	1990			0.1492	3.4010	0.3719	3.9154	0.0181	2.3515	115.52	4.70	2336.36	4.98	321.03	7.83
Titantic         1145.6         5.4         5.1002         2.8155         0.0781         1.8862         2.1171         2.8235         0.1925         2.8139         1154.3         5.63         1149.26         6.45         1154.41           Titantic         1134.3         5.4         5.1965         0.0781         1.8663         2.0785         2.8235         0.1925         2.8139         1135.10         5.63         1141.26         6.45         1141.46           Titantic         1119.7         5.4         5.2866         2.8155         0.0781         1.8663         0.1961         2.8139         115.24         5.63         1151.06         6.45         1144.66           Titantic         1119.7         5.4         5.2866         2.8155         0.0781         1.2692         2.8235         0.1991         2.8139         1165.06         5.63         1148.34         6.43         1144.66           Titantic         1103.7         5.4         5.1956         0.0781         1.2786         2.0202         2.8235         0.1996         1783         1148.34         6.43         1144.76           Titantic         114.6         1.4         2.0202         2.8235         0.1994         0.7890         1146.24 <t< td=""><td>Titantle         11343         5.4         5.1002         2.8155         0.0781         1.8663         2.1171         2.8235         0.1961         2.8139         1154.38           Titantle         1134.3         5.4         5.1961         2.8155         0.0781         1.8663         2.0785         2.8235         0.1905         2.8139         1135.10           Titantle         1119.7         5.4         5.9644         2.8155         0.0782         1.8663         2.0785         2.8235         0.1901         2.8139         1135.10           Titantle         1119.7         5.4         5.2866         2.8155         0.0782         2.1877         2.0502         2.8235         0.1901         2.8139         1165.06           Titantle         1140.6         1.5         5.1477         0.0781         1.8989         2.1803         0.2019         2.8139         1165.06           Titantle         1140.6         1.5         5.1477         0.0781         1.2718         2.0892         0.7836         0.1945         0.7890         1140.877           Titantle         1140.5         1.5         5.1654         0.7673         0.0781         1.2748         2.0899         0.7638         0.1946         0.7580</td><td>Titanite 1134.3  Titanite 1119.7  Titanite 1119.7  Titanite 1103.7  Titanite 1145.6  Titanite 1140.5</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>	Titantle         11343         5.4         5.1002         2.8155         0.0781         1.8663         2.1171         2.8235         0.1961         2.8139         1154.38           Titantle         1134.3         5.4         5.1961         2.8155         0.0781         1.8663         2.0785         2.8235         0.1905         2.8139         1135.10           Titantle         1119.7         5.4         5.9644         2.8155         0.0782         1.8663         2.0785         2.8235         0.1901         2.8139         1135.10           Titantle         1119.7         5.4         5.2866         2.8155         0.0782         2.1877         2.0502         2.8235         0.1901         2.8139         1165.06           Titantle         1140.6         1.5         5.1477         0.0781         1.8989         2.1803         0.2019         2.8139         1165.06           Titantle         1140.6         1.5         5.1477         0.0781         1.2718         2.0892         0.7836         0.1945         0.7890         1140.877           Titantle         1140.5         1.5         5.1654         0.7673         0.0781         1.2748         2.0899         0.7638         0.1946         0.7580	Titanite 1134.3  Titanite 1119.7  Titanite 1119.7  Titanite 1103.7  Titanite 1145.6  Titanite 1140.5														
Titanite         1134.3         5.4         5.1851         2.8155         0.0785         1.8863         2.0285         0.1925         2.8139         1135.10         5.63         1149.26         6.45         1141.76           Titanite         113414         2.8155         0.0782         1.8865         2.1389         2.8235         0.1981         2.8139         1165.06         5.63         1151.73         6.40         1161.46           Titanite         1.197         5.2896         2.8155         0.0781         1.2898         2.8235         0.2199         2.8139         1165.06         5.63         1145.06         7.30         1164.67           Titanite         1.103.7         5.4         5.446         2.8155         0.0781         1.278         2.0292         2.8139         1165.86         5.63         1448.03         3.90         1174.75           Titanite         1.145.6         1.5         5.1407         0.7781         1.2748         2.0292         2.8355         0.1980         1.485.7         1.48.03         3.90         11448.75           Titanite         1.45.6         1.5         5.1447         0.7784         1.2748         2.089         0.7839         0.1989         1.48.77         1.52	Titanite         11343         54         5.1951         2.8155         0.0781         18663         2.0785         2.8235         0.1925         2.8139         1135.10           Titanite         1110.7         5.4         5.2846         2.8155         0.0782         1.8656         2.1389         2.8235         0.1961         2.8139         1165.06           Titanite         1110.7         5.4         5.2866         2.8155         0.0781         1.8598         2.0202         2.8235         0.1907         2.8139         1165.06           Titanite         1145.6         1.5         5.147         0.0781         1.1266         2.0202         2.8235         0.1907         2.8139         1165.78           Titanite         1145.6         1.5         5.147         0.0781         1.2718         2.0998         0.7638         0.1945         0.7580         1140.87           Titanite         1140.5         1.5         5.164         0.7673         0.0781         1.2748         2.0899         0.7638         0.7980         1140.87           Titanite         1140.5         1.5         5.164         0.7673         0.0781         1.2879         2.0819         0.7638         0.1969         0.7580         <	Titanite 1134.3  Titanite 1119.7  Titanite 1103.7  Titanite 1145.6  Titanite 1140.5	5.1002		0.0781	1.8562	2.1171	2.8235	0.1961	2.8139	1154.38	5.63	1148.92	6.42	1154.41	5.65
Titanile         1197         5.4         2.8156         0.0782         2.8235         0.1981         2.8139         116.56         6.63         1151.73         6.40         1161.46           Titanile         1197         5.4         6.2566         2.8155         0.0781         2.1875         2.6202         2.8235         0.1900         2.8139         112.24         6.63         1151.73         6.40         1161.46           Titanile         1103.7         5.4         5.856         2.8155         0.0781         1.289         2.8235         0.1901         2.8139         116.34         6.63         114.803         7.30         112.34           Titanile         1103.7         5.4         5.164         0.0781         1.278         2.0899         0.7838         0.1985         0.7890         114.877         1.52         4.4         114.857           Titanile         1140.5         1.5         5.1664         0.7673         0.0781         1.278         0.7838         0.1989         0.7880         114.877         4.4         4.4         114.855           Titanile         1140.5         1.5         5.1624         0.7673         0.7781         1.2849         0.7889         0.1989         0.7880	Titantle         11197         5.4         2.8156         0.0782         2.1856         2.1856         2.1856         0.0782         2.1856 <td>Titanite 1119.7  Titanite 1103.7  Titanite 1145.6  Titanite 1140.5</td> <td></td> <td></td> <td>0.0781</td> <td>1.8663</td> <td>2.0785</td> <td>2.8235</td> <td>0.1925</td> <td>2.8139</td> <td>1135.10</td> <td>5.63</td> <td>1149.26</td> <td>6.45</td> <td>1141.76</td> <td>5.65</td>	Titanite 1119.7  Titanite 1103.7  Titanite 1145.6  Titanite 1140.5			0.0781	1.8663	2.0785	2.8235	0.1925	2.8139	1135.10	5.63	1149.26	6.45	1141.76	5.65
Titanite         1197         54         5.2566         2.8155         0.7781         2.0502         2.8235         0.1900         2.8139         112.124         5.63         1145.106         7.30         1132.35           Titanite         Titanite         1103.7         5.4         5.815         0.0781         1.8598         2.8235         0.2019         2.8139         1165.78         5.63         1148.34         6.43         1174.76           Titanite         1103.7         5.4         5.347         2.8155         0.0781         1.278         2.0298         0.7836         0.1945         0.7830         1145.77         1.52         1147.36         4.40         112.34           Titanite         1145.6         1.564         0.7673         0.0781         1.2748         2.0898         0.7830         0.1985         0.7890         146.77         1.52         144.78         4.41         147.55           Titanite         1135.0         1.5         5.1654         0.7673         0.0781         1.2849         0.7639         0.7890         145.78         1.52         144.79         4.41         147.50           Titanite         1135.0         1.5         5.9929         0.7639         0.7891         0.7	Titanite         1119.7         5.4         5.2566         2.8155         0.0782         2.157         2.0502         2.8235         0.1900         2.8139         112.124           Titanite         1103.7         5.4         5.8464         2.8155         0.0781         1.8598         2.1803         2.8235         0.2019         2.8139         1185.78           Titanite         1103.7         5.4         5.834         2.8155         0.0781         1.1266         2.0202         2.8235         0.1945         2.8139         1165.85           Titanite         1145.6         0.0781         1.2748         2.0899         0.7638         0.1945         0.7580         1146.77           Titanite         1135.0         1.5         5.1654         0.7673         0.0778         1.2649         2.0143         0.1958         0.7580         1140.87           Titanite         1135.0         1.5         5.1654         0.7673         0.0778         1.2649         2.0163         0.7638         0.1958         0.7580         1140.87           Titanite         1141.2         1.5         5.1654         0.7673         0.0782         1.2649         2.0915         0.7638         0.1997         0.7580         1141.65	Titanite 1119.7  Titanite 1103.7  Titanite 1145.6  Titanite 1140.5	5.0414		0.0782	1.8565	2.1389	2.8235	0.1981	2.8139	1165.06	5.63	1151.73	6.40	1161.46	5.65
Titanile         1135 O         2.8155         0.0781         1.8589         2.8235         0.2019         2.8139         1185.78         5.63         1148.34         6.43         1174.76           Titanile         1100.7         5.4         5.8374         2.8155         0.0781         1.276         2.0202         2.8235         0.1871         2.8139         110.58         5.63         1148.03         3.90         112.34           Titanile         1145.6         1.5         5.1407         0.0763         0.0781         1.2748         2.0899         0.7838         0.1986         0.7890         1145.77         1.52         1147.36         4.41         115.34           Titanile         1135.0         1.5         5.1654         0.7673         0.0781         1.2844         2.0789         0.1986         0.7880         1145.78         1.52         144.79         144.55           Titanile         1135.0         1.5         5.1923         0.7673         0.0781         1.2824         2.0789         0.1986         0.7880         1145.89         1.52         144.1         144.1         144.1         144.1         144.1         144.1         144.1         144.1         144.9         144.0         144.9         1	Titantle         1103.7         5.4         5.344         2.8155         0.0781         1.8598         2.1803         2.8235         0.2019         2.8139         1185.78           Titantle         1103.7         5.4         5.374         2.8155         0.0781         1.1266         2.0202         2.8235         0.1871         2.8139         1105.85           Titantle         1145.6         1.5         5.1447         0.7673         0.0781         1.2748         2.0899         0.7638         0.1945         0.7580         1140.77           Titantle         1135.0         1.5         5.1654         0.7673         0.0778         1.2849         2.1261         0.7638         0.1956         0.7580         1140.87           Titantle         1135.0         1.5         5.1624         0.7673         0.0778         1.2849         2.0915         0.7938         0.1956         0.7580         1140.87           Titantle         1141.2         1.5         5.1629         0.7673         0.0782         1.2849         2.0915         0.7838         0.1926         0.7580         1141.65           Titantle         1145.0         1.5         5.1423         0.7673         0.7672         1.2873         2.0915	Titanite 1103.7 Titanite 1145.6 Titanite 1140.5			0.0782	2.1157	2.0502	2.8235	0.1900	2.8139	1121.24	5.63	1151.06	7.30	1132.35	5.65
Titanile         1105.7         5.4         5.374         2.8156         0.0781         1.2835         0.1871         2.8136         0.1871         2.8136         0.1871         2.8139         1105.86         5.63         1148.03         3.90         1122.34           Titanile         1.145.6         1.5         5.1407         0.7673         0.0781         1.2718         2.0898         0.7836         0.1945         0.7890         1145.77         1.52         1147.59         4.40         1148.75           Titanile         1.140.5         1.5         5.1654         0.7673         0.0778         1.2679         0.7838         0.1936         0.7580         1142.74         4.41         1145.50           Titanile         1.135.0         1.5         5.1923         0.7673         0.778         1.2849         2.0915         0.7839         0.1936         0.7890         1141.65         142         4.41         1145.01           Titanile         1.145.0         1.5         5.1823         0.7673         0.7673         1.2674         2.0915         0.7838         0.1936         0.7890         1141.65         4.41         1145.01           Titanile         1.145.0         1.5         5.1823         0.7673	Titanite         1105.7         5.4         5.374         2.8155         0.0781         1.1266         2.0202         2.8235         0.1871         2.8139         1105.86           Titanite         1145.6         1.5         5.1407         0.7673         0.0781         1.2718         2.0898         0.7638         0.1945         0.7860         1145.77           Titanite         1.40.5         1.5         5.1654         0.7673         0.0778         1.2879         2.1261         0.7638         0.1969         0.7580         1140.87           Titanite         1135.0         1.5         5.1623         0.7673         0.0778         1.2849         2.0919         0.7638         0.1969         0.7580         1140.87           Titanite         1141.2         1.5         5.1629         0.7673         0.0782         1.2849         2.0915         0.7638         0.1937         0.7580         1141.65           Titanite         1145.0         1.5         5.1423         0.7673         0.0782         1.2879         2.0915         0.7638         0.1937         0.7580         1141.65	Titanite 1103.7  Titanite 1145.6  Titanite 1140.5	4.9464		0.0781	1.8598	2.1803	2.8235	0.2019	2.8139	1185.78	5.63	1148.34	6.43	1174.76	5.65
Titanile         1145.6         1.5         5.1407         0.7673         0.0781         1.2718         2.0898         0.7638         0.1945         0.7580         1145.77         1.52         1147.59         4.40         1148.75           Titanile         1140.5         1.5         5.1644         0.7673         0.0778         1.2679         2.1261         0.7638         0.1926         0.7580         1140.87         1.52         1142.14         4.41         1145.50           Titanile         1135.0         1.5         5.1923         0.7673         0.0778         1.2844         2.0781         0.7638         0.1926         0.7890         1145.5         1142.14         4.41         1145.33           Titanile         1141.2         1.5         5.1623         0.7673         0.0782         1.2849         2.098         0.7838         0.1926         0.7890         1141.65         4.46         1144.60           Titanile         1141.2         1.5         5.1623         0.7673         0.0782         1.2849         2.098         0.7838         0.1937         0.7890         114.65         4.46         1144.60           Titanile         1145.0         1.5         5.1423         0.7673         0.0782	Titantle         1145.6         1.5         5.1407         0.7673         0.0781         1.2718         2.0998         0.7638         0.1945         0.7580         1145.77           Titantle         1140.5         1.5         5.1654         0.7673         0.0778         1.2748         2.0899         0.7638         0.1966         0.7580         1140.87           Titantle         1135.0         1.5         5.1654         0.7673         0.0778         1.2824         2.0791         0.7638         0.1969         0.7580         1158.78           Titantle         1141.2         1.5         5.1699         0.7673         1.2824         2.0915         0.7638         0.1967         0.7580         1145.65           Titantle         1141.2         1.5         5.1429         0.7673         1.2824         2.0915         0.7638         0.1937         0.7580         1141.65           Titantle         1141.2         1.5         5.1423         0.7673         0.7673         2.0915         0.7638         0.1937         0.7580         1141.65	Titanite 1145.6 Titanite 1140.5			0.0781	1.1266	2.0202	2.8235	0.1871	2.8139	1105.85	5.63	1148.03	3.90	1122.34	5.65
1.5 5.1654 0.7673 0.0781 1.2748 2.0899 0.7638 0.1936 0.7580 1140.87 1.52 1147.36 4.41 1145.50 1145.50 0.778 1.2679 1.2679 2.12671 0.7638 0.1969 0.7580 1158.78 1.52 1142.14 4.41 115.73 1142.07 0.778 1.2824 2.0797 0.7783 0.1937 0.7580 1143.59 1.52 1140.07 1.52 1140.01 4.37 1146.01 1.5 5.1629 0.7673 0.0782 1.2649 2.0915 0.7638 0.1937 0.7580 1143.55 1.52 1150.01 4.37 1146.01 1.5 1.423 0.7673 0.0782 1.2673 0.7638 0.7638 0.7639 0.7	Titanite 1140.5   1.5 5.1654   0.7673   0.0781   1.2748   2.0899   0.7638   0.1936   0.7860   1140.67     Titanite 1135.0   1.5 5.1929   0.7673   0.0778   1.2824   2.0791   0.7638   0.1926   0.7580   1158.78     Titanite 1141.2   1.5 5.1629   0.7673   0.0782   1.2674   2.0915   0.7638   0.1926   0.7580   1141.65     Titanite 1145.0   1.5 5.1423   0.7673   0.0782   1.2573   2.0988   0.7838   0.1944   0.7580   1145.25     Titanite 1145.0   1.5 5.1423   0.7673   0.0782   1.2573   2.0988   0.7838   0.1944   0.7580   1145.25     Titanite 1145.0   1.5 5.1423   0.7673   0.0782   1.2573   2.0988   0.7838   0.1944   0.7580   1145.25	Titanite 1140.5			0.0781	1.2718	2.0998	0.7638	0.1945	0.7580	1145.77	1.52	1147.59	4.40	1148.75	1.53
5.0765 0.7673 0.0778 1.2879 2.1261 0.7638 0.1969 0.7580 1158.78 1.52 1142.14 4.41 1157.33 1.55 1.75 1.75 1.75 1.75 1.75 1.75 1.75	Titanile         1.5 G/76         0.7673         0.0778         1.2879         2.1261         0.7638         0.1969         0.7860         1158.78           Trianile         1143.2         1.5         5.1929         0.7784         2.0791         0.77838         0.1926         0.7580         1135.39           Titanile         1141.2         1.5         5.1629         0.7787         1.2649         0.7783         0.1937         0.7880         1141.65           Titanile         1145.0         1.5         5.1423         0.7673         0.0782         1.2573         2.0988         0.7838         0.1944         0.7890         1145.25				0.0781	1.2748	2.0899	0.7638	0.1936	0.7580	1140.87	1.52	1147.36	4.41	1145.50	1.53
1.5 5.1923 0.7673 0.0778 1.2824 2.0791 0.7638 0.1926 0.7880 1135.39 1.52 1142.07 4.46 1141.93 1.5 5.1629 0.7673 0.0782 1.2649 2.0915 0.7638 0.1937 0.7880 1141.65 1.52 1150.01 4.37 1146.01 1.5 5.1423 0.7673 0.0782 1.2573 2.0988 0.7638 0.1944 0.7890 1145.25 1.52 1150.12 4.34 1148.40	Titanile 1135.0 1.5 5.1923 0.7673 0.0778 1.2824 2.0791 0.7638 0.1926 0.7580 1135.39  Titanile 1141.2 1.5 5.1629 0.7673 0.0782 1.2649 2.0915 0.7638 0.1937 0.7580 1141.65  Titanile 1145.0 1.5 5.1423 0.7673 0.0782 1.2573 2.0988 0.7638 0.1944 0.7580 1145.25	Titanite			0.0778	1.2679	2.1261	0.7638	0.1969	0.7580	1158.78	1.52	1142.14	4.41	1157.33	1.53
1.5 5.1629 0.7673 0.0782 1.2649 2.0915 0.7638 0.1937 0.7580 1141.65 1.52 1150.01 4.37 1146.01 1.5 5.1423 0.7673 0.0782 1.2573 2.0988 0.7638 0.1944 0.7580 1145.25 1.52 1150.12 4.34 1148.40	Titanile 1141.2 1.5 5.1629 0.7673 0.0782 1.2649 2.0915 0.7638 0.1937 0.7580 1141.65  Titanile 1145,0 1.5 5.1423 0.7673 0.0782 1.2573 2.0988 0.7638 0.1944 0.7580 1145.25	Titanite 1135.0			0.0778	1.2824	2.0791	0.7638	0.1926	0.7580	1135.39	1.52	1142.07	4.46	1141.93	1.53
.1.5 5.1423 0.7673 0.0782 1.2573 2.0988 0.7638 0.1944 0.7580 1145.25 1.52 1150.12 4.34 1148.40	Titanite 1145,0 1.5 5.1423 0.7673 0.07782 1.2573 2.0988 0.7638 0.1944 0.7580 1145,25	Titanite 1141.2			0.0782	1.2649	2.0915	0.7638	0.1937	0.7580	1141.65	1.52	1150.01	4.37	1146.01	1.53
					0.0782	1.2573	2.0988	0.7638	0.1944	0.7580	1145.25	1.52	1150.12	4.34	1148.40	1.53

Appendix G: U-Pb geochronology age standards

Analysis	Mineral	207cor 206Pb/238 U	207cor 206Pb/238 U	238U/206P b		207Pb/206P b		207Pb/235 U (calc)		206Pb/238U		206Pb/238 U		207Pb/206Pb		207Pb/235U (calc)	
		Age (Ma)	2s%	ratio	18%	ratio	18%	ratio	18%	ratio	1s%	Age (Ma)	7s%	Age (Ma)	2s%	Age (Ma)	2s%
100606_5_1	Titanite	438.2	5.7	13.7120	2.8997	0.0849	2.2478	0.8551	3.6461	0.0730	2.9182	454.06	5.84	1312.19	6.65	627.42	7.29
100606_5_2	Titanite	435.9	5.8	13.4772	2.9486	0.1013	2.6803	1.0370	3.9095	0.0741	2.9576	461.05	5.92	1647.97	6.03	722.41	7.82
100606_5_3	Titanite	445.3	5.9	13.3741	2.9762	0.0904	3.1310	0.9320	4.1815	0.0747	2.9910	464.38	5.98	1432.20	8.34	668.67	8.36
100606_5_4	Titanite	428.6	1.7	14.0618	0.8795	0.0824	1.4702	0.8119	1.7479	0.0711	0.8746	442.89	1.75	1254.36	4.58	603.53	3.50
100606_5_5	Titanite	438.7	2.2	13.3694	1.0264	0.1038	2.0730	1.0766	2.1860	0.0749	1.0623	465.38	2.12	1692.08	4.52	741.96	4.37
100606_5_6	Titanite	427.7	1.7	14.2082	0.8577	0.0759	1.2691	0.7402	1.4969	0.0704	0.8527	438.48	1.71	1090.93	4.66	562.51	2.99
Mean = 431.4 ± 4.3 Ma, MSWD = 1.10, prob = 0.36	la, MSWD =	1.10,  prob = 0.36															
Recommended age = 432.02 ± 0.64 Ma; Best, 2012; TIMS	= 432.02 ± 0.	.64 Ma; Best, 201	2; TIMS														
FC-3 5 1	Titanite	27.9	12.1	115.3344	3.6582	0.4416	4.1774	0.5286	4.5411	0.0086	3.6967	55.51	7.39	4056.48	3.07	430.91	9.08
FC-3 5 2	Titanite	28.5	12.9	107.2454	3.6661	0.4627	4.1299	0.5960	4.4921	0.0093	3.7563	59.88	7.51	4125.98	2.97	474.67	8.98
FC-3_5_3	Titanite	31.4	10.0	84.2716	1.7961	0.5133	2.7559	0.8444	2.5421	0.0119	1.7938	76.00	3.59	4279.07	1.89	621.59	5.08
FC-3_5_4	Titanite	25.7	7.7	127.7949	1.8158	0.4351	2.9593	0.4721	2.7090	0.0078	1.8128	50.31	3.63	4034.46	2.19	392.65	5.45
FC-3_5_5	Titanite	27.3	8.3	109.6096	1.7430	0.4701	2.7379	0.5945	2.4374	0.0091	1.7403	58.56	3.48	4149.54	1.96	473.73	4.87
Mean = $27.5 \pm 2.6$ Ma, MSWD = $2.5$ , prob = $0.04$	1, MSWD = 2.	.5, prob = 0.04															
Recommended age = 28.13 ± 0.48 Ma; Daze et al., 2003; TIMS	= 28.13 ± 0.4	18 Ma; Daze et al.	, 2003; TIMS														
Dromedary_5_1	Titanite	1.76	5.9	61.2091	2.9475	0.1044	2.6967	0.2354	3.8808	0.0163	2.9476	104.43	5.90	1703.74	5.83	214.67	7.76
Dromedary_5_2	Titanite	9.76	5.8	62.8545	2.9145	0.0797	2.6656	0.1749	3.8416	0.0159	2.9149	101.66	5.83	1188.14	8.86	163.66	7.68
Dromedary_5_3	Titanite	6.96	4.0	49.6177	1.4424	0.2464	3.1956	0.6889	2.7663	0.0202	1.4524	128.71	2.90	3161.24	3.21	532.15	5.53
Dromedary_5_4	Titanite	100.2	3.2	55.4483	1.3955	0.1528	3.3363	0.3871	3.2781	0.0180	1.4226	115.28	2.85	2377.03	4.78	332.25	92.9
Dromedary 5_5	Titanite	97.2	2.0	62.7733	0.9910	0.0858	2.0950	0.1894	2.3290	0.0160	0.9923	102.03	1.98	1332.27	6.08	176.11	4.66
Mean = 97.8 ± 1.4 Ma, MSWD = 0.72, prob = 0.58	, MSWD = 0	.72, prob = 0.58															
Recommended age = $98.7 \pm 0.6$ Ma: Khon et al., 1990	= 98.7 ± 0.6	Ma: Khon et al., 1	0661														

Appendix G: U-Pb geochronology age standards

1   1   1   1   1   1   1   1   1   1			Age	Age	U	U	238U/206P b		b b		U (calc)		206Pb/238 U		206Pb/238 U		207Pb/206P b		207 Pb/235 U (calc)	
No.   1   1   1   1   1   1   1   1   1			(Ma)	(Ma) 2s%	Age (Ma)	2s%	ratio	18%	ratio	18%	ratio	1s%	ratio	1s%	Age (Ma)	2s%	Age (Ma)	7s%	Age (Ma)	2s%
No.   No.	R10_1_1	Rutile	1134.0				5.2080	0.7907	0.0769	1.3689	2.0176	1.8719	0.1923	0.8385	1133.99	1.68	1116.53	4.89	1121.44	3.74
Name	R10_1_2	Rutile	1112.4	1.8			5.3125	0.9535	0.0749	1.4096	1.9270	1.8976	0.1884	0.9061	1112.44	1.81	1063.68	5.33	1090.51	3.80
Name   1982   22   22   22   22   22   22   22	R10_1_3	Rutile	1094.0	2.2			5.3875	1.1840	0.0746	1.0065	1.9078	1.5955	0.1850	1.0939	1094.04	2.19	1056.36	3.84	1083.80	3.19
Figure   1992   2.3   2.4	R10_1_4	Rutile	1093.6	2.2			5.4002	1.1925	0.0760	1.0091	1.9379	1.6148	0.1849	1.1223	1093.57	2.24	1092.96	3.70	1094.29	3.23
Name   1972   2.2   1972   2.2   2	R10_1_5	Rutile	1089.9	2.2			5.4181	1.1973	0.0751	1.0066	1.9107	1.5802	0.1842	1.1096	1089.92	2.22	1070.21	3.78	1084.84	3.16
Name   Color	R10_1_6	Rutile	1099.0	2.3			5.3766	1.2241	0.0746	1.1529	1.9130	1.6877	0.1859	1.1343	1099.00	2.27	1057.16	4.39	1085.64	3.38
	R10_1_7	Rutile	1087.2	2.1	1087.2	2.1	5.4406	1.1657	0.0765	1.0061	1.9374	1.5410	0.1839	1.0945	1088.14	2.19	1107.00	3.63	1094.09	3.08
Purple   1902   2.5	Mean = 1083: Recommende	Eutile ± 15 Ma, MS\ ed age = 109	1096.5 WD = 1.07, pro 1.6 ± 3.5 Ma; I	2.3 ob = 0.38 uvizotto et al	l., 2009;	_	5.3902	1.2132	0.0761	0.9897	1.9462	1.5156	0.1854	1.12/9	1096.51	2.26	1096.42	 19:	1097.14	3.03
Haile						_														
Name	R19_1_1	Rutile	502.3	2.5			12.3344	1.2341	0.0536	4.5527	0.5946	4.4707	0.0810	1.2565	502.26	2.51	353.74	58.14	473.83	8.94
Rune   478   3 10   474   3 10   12,000   15,010   0.0002   3.0770   0.0471   3.1780   0.0471   5.17	R19_1_2	Rutile	500.8	2.5	500.8	2.5	12.3741	1.2286	0.0583	4.0689	0.6442	4.1538	0.0809	1.2502	501.46	2.50	540.93	32.89	504.88	8.31
Rune         478.2         2.6         478.7         2.6         478.7         2.6         478.7         2.6         478.7         2.6         478.7         2.6         478.7         2.6         478.8         2.6         2.6         2.6         2.6         2.6         2.6         2.6         2.6         2.6         2.6         2.6         2.6         2.6         2.6         2.6	R19_1_3	Rutile	474.8	3.0	474.8	3.0	13.0460	1.5310	0.0598	3.7269	0.6472	3.7863	0.0767	1.5176	476.61	3.04	593.73	27.21	506.73	7.57
Figure   473.2   2.5	R19_1_4	Rutile	478.7	2.6	478.7	2.6	12.8989	1.3928	0.0602	3.0077	0.6421	3.1994	0.0774	1.3218	480.67	2.64	608.68	21.36	503.64	6.40
	R19_1_5	Rutile	474.0	2.7			13.0867	1.3655	0.0562	2.9626	0.5915	3.1409	0.0763	1.3254	473.98	2.65	459.29	28.60	471.86	6.28
Figure   1,11,12,12,   1,12,12,12,   1,12,	6 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	e Krille	468.2	2.0			13.2596	1.36/4	0.0578	2.9211	0.6009	3.1177	0.0753	1.3214	468.16	2.04	521.41	24.38	477.82	6.24
Part   Part	R19_1_7	Kutile	473.3	2.7			13.1321	1.4058	0.0592	3.0913	0.6212	3.3443	0.0762	1.3577	473.30	2.72	572.81	23.47	490.60	6.69
Fluiding   Fluiding	Mean = 483+	Rutile	488.5				12.7565	1.4227	0.0563	3.2338	0.6162	3.4393	0.0787	1.3529	488.47	2.71	462.85	30.96	487.47	6.88
Rudik   Parish   Pa	Recommend	ed age = 489	5 ± 0.9 Ma; Z	ack et al., 201	1; TIMS															
Figure   F	TB-1_1_1	Rutile			511.5	0.2	12.0972	0.000	0.0583	1.7722	0.6557	0.0000	0.0827	0.0000	512.00	0.00	539.93	14.36	512.00	0.00
Purile   P	TB-1_1_2	Rutile					12.0972	0.0000	0.0576	2.1539	0.6557	0.0000	0.0827	0.0000	512.00	0.00	511.97	18.49	512.00	0.00
Public   P	TB-1_1_3	Rutile			510.3	2.0	12.2095	1.0879	0.0576	2.1927	0.6506	1.0633	0.0824	0.9922	510.33	1.98	512.74	18.79	508.82	2.13
National Purple   P	TB-1_1_4	Rutile					11.9858	1.0879	0.0575	1.6289	0.6609	1.0633	0.0831	0.9922	514.67	1.98	510.89	14.01	515.18	2.13
Rutile   5071   19   12.2065   1.0879   0.0676   1.2011   0.0469   1.0633   0.0819   0.9922   507.21   1.99   511.22   1.0879   1.0879   0.0676   1.4633   0.0434   1.0633   0.0481   0.9922   507.09   1.99   511.22   510.04   1.0879   0.0676   1.4639   0.66594   1.0633   0.0491   0.0823   0.0492   0.9922   507.09   1.99   513.29   1.2170   0.0479   1.2170   0.0479   1.0633   0.0494   1.0633   0.0492   0.9922   507.09   1.99   513.29   1.2170   0.0479   1.2459   0.0479   1.0633   0.0494   1.0633   0.0492   0.9922   507.09   1.99   513.29   1.2170   0.0479   1.2459   0.0479   1.2659   0.0479   1.2659   0.0479   1.0633   0.0494   1.0633   0.0492   0.9922   507.09   1.99   513.24   1.2170   1.2459   1.2459   0.0479   1.2659   0.0479   1.2659   0.0479   1.2659   0.0479   1.2659   0.0479   1.2659   0.0479   1.2659   0.0479   1.2659   0.0479   1.2659   0.0479   1.2659   0.0479   1.2659   0.0479   1.2659   0.0479   1.2659   0.0479   1.2659   0.0479   1.2659   0.0479   1.2659   0.0479   1.2659   0.0479   1.2659   0.0479	TB-1_1_5	Rutile					11.9731	1.0879	0.0575	1.5292	0.6623	1.0633	0.0833	0.9922	515.86	1.98	510.96	13.15	516.02	2.13
507.0 12.152 1.0879 0.0576 1.16539 0.6626 1.0933 0.0922 5.0959 1.98 511.20 14.20 14.20 14.20 1.0879 0.0575 1.4453 0.6624 1.0633 0.00818 0.9922 50.00 1.989 513.25 12.12 50813 12.1200 1.0879 0.0575 1.4453 0.6634 1.0633 0.0842 0.9922 51.00 1.98 513.25 12.12 50813 12.1200 1.0879 0.0575 1.4453 0.6674 1.0633 0.0642 0.9922 51.00 1.98 511.60 1.0879 0.0575 1.4453 0.6674 1.0633 0.0842 0.9922 51.00 1.98 511.60 1.0879 0.0575 1.2853 0.6679 1.0633 0.0842 0.9922 51.00 1.98 511.60 1.0879 0.0575 1.2853 0.6679 1.0633 0.0842 0.9922 51.00 1.98 511.60 1.0879 1.0879 0.0575 1.2879 0.0879 1.0633 0.0842 0.9922 51.00 1.98 511.60 1.0879 1.0879 0.0781 1.3844 1.9908 2.1587 0.1887 1.4867 1.119.90 2.97 1.098.00 5.77 1.112.38 1.117.9 2.9 5.2729 1.5244 0.0777 1.3663 2.0299 2.0553 0.1887 1.885 1.0991 5.80 1.0902 8.371 1.118.90 1.097 1.098.00 1.9112 2.7720 0.1840 2.8955 1.09910 5.80 1.0902 8.371 1.097.08 1.0975 1.0970 1.0917 1.9962 2.7420 0.1861 2.8956 1.09910 5.80 1.0917 1.095.00 1.0917 1.9962 2.7420 0.1861 2.8956 1.09910 5.80 1.0912 8.371 1.097.08 1.097.08 1.0975 1.0970 1.097	TB-1_1_6	Rutile			507.1	1.9	12.2065	1.0879	0.0576	1.2301	0.6498	1.0633	0.0819	0.9922	507.21	1.98	511.92	10.56	508.34	2.13
12.1500 1.0879 0.0576 1.4458 0.6544 1.0633 0.0818 0.9922 507.09 1.98 515.25 12.77 508.13 evisity of Taximula 1.12768 1.0879 0.0575 1.4458 0.6564 1.0633 0.0842 0.9922 510.01 1.98 50.967 1.247 509.98 evisity of Taximula 1.13769 0.0575 1.2653 0.6679 1.0633 0.0842 0.9922 51.00 1.98 51.46 1.0879 1.0879 0.0575 1.2653 0.6679 1.0633 0.0842 0.9922 51.00 1.98 51.46 1.0879 1.087 51.942 0.0761 1.5844 1.9908 2.1287 0.1871 1.4855 1.105.79 2.97 1.088.00 5.77 1.112.38 1.17.9 2.9 5.2729 1.5244 0.0777 1.3663 2.0299 2.0553 0.1887 1.5177 1.118.95 3.03 1.138.64 4.77 1.126.60 1.17.9 2.98 5.2820 0.0764 1.0265 1.0309 1.1912 2.7720 0.1840 2.8965 1.099.01 5.77 1.092.08 3.71 1.097.08 1.3962 2.8735 0.0746 1.0426 1.9660 2.7420 0.1889 2.8976 1.099.3 5.77 1.092.38 3.71 1.097.08 1.3962 2.8975 0.0744 1.0571 1.9860 2.7785 0.1849 2.8966 1.091.21 5.81 1.005.1 1.097.08 1.3961 2.8965 1.096.00 1.091.21 5.891 1.096.00 1.091.21 5.891 1.096.00 1.091.21 5.891 1.096.00 1.091.21 5.891 1.096.00 1.091.21 5.891 1.096.00 1.091.21 5.891 1.096.00 1.091.21 5.891 1.096.00 1.091.21 5.891 1.096.00 1.091.21 5.891 1.096.00 1.091.21 5.891 1.096.00 1.091.21 5.891 1.096.00 1.091.21 5.891 1.096.00 1.091.21 5.891 1.096.00 1.091.21 5.891 1.096.00 1.091.21 5.891 1.096.80 5.891 1.	TB-1_1_7	Rutile			509.5	2.0	12.1532	1.0879	0.0576	1.6639	0.6526	1.0633	0.0823	0.9922	509.59	1.98	511.80	14.29	510.06	2.13
12.1500 1.0879 0.0575 1.2653 0.6679 1.0833 0.0842 0.9922 551.23 1.98 511.60 10.87 519.42 519.92 1.18788 1.0879 0.0575 1.2653 0.6679 1.0833 0.0842 0.9922 551.23 1.98 511.60 10.87 519.42 519.92 1.18788 1.0879 0.0781 1.3859 2.0789 2.1287 0.1871 1.4835 1.105.79 2.97 1148.94 4.76 1112.38 117.9 2.9 5.246 0.0777 1.3663 2.0299 2.0553 0.1896 1.5177 118.95 3.03 1138.64 4.77 112.38 1.487 1.1985 2.9925 0.0776 1.0309 1.9112 2.7720 0.1849 2.8956 1.089.01 5.80 1.080.07 3.83 1.08708 1.9112 2.7720 0.1849 2.8956 1.099.01 5.77 1.092.89 3.71 1.097.89 1.9925 0.0774 1.0563 1.9962 2.7420 0.1898 1.5172 1.093.91 2.8956 1.093.91 1.093.91 1.997.89 1.092.99 1.092.99 1.092.99 1.092.99 1.092.99 1.092.99 1.092.99 1.092.99 1.092.99 1.092.99 1.092.99 1.092.90 1.092.99 1.092.99 1.092.99 1.092.90 1.092.99 1.092.90 1.092.99 1.092.90 1.09	TB-1_1_8	Rutile			507.0	D: C	12.2209	1.0879	0.0576	1.4163	0.6494	1.0633	0.0818	0.9922	507.09	1.98	513.25	12.12	508.13	2.13
1,3768   1,0679   1,0079   1,2635   1,0635   1,0635   1,0635   1,0635   1,0637   1,4835   1,165,79   2,97   1,14834   4,76   1,120,20   1,120	TB-1_1_9	Yntile					12.1500	1.0879	0.05/5	1.4458	0.6524	1.0633	0.0823	0.9922	510.01	96.7	509.67	12.47	509.96	2.13
103.6 2.9 5.3456 1.4963 0.0781 1.3759 2.0139 2.1287 0.1871 1.4835 1105.79 2.97 1148.94 4.76 1122.30 117.9 2.9 5.2456 1.4963 0.0777 1.5844 1.9908 2.1558 0.1897 1.4835 1105.79 2.97 1148.94 4.76 1122.30 117.9 2.9 5.2729 1.5244 0.0777 1.3663 2.0299 2.0553 0.1896 1.5177 118.95 3.03 1138.64 4.77 1123.80 1.017.2 1.3620 2.8827 0.0760 1.0117 1.9460 2.7420 0.1897 1.8966 1.003.1 5.77 1102.39 1.065.00 1.017 1.3662 1.9052 0.01890 1.917 1.9895 1.009.01 5.0 0.1899 1.977 1.003.3 5.77 1002.29 3.77 1002.09 1.017 1.3662 1.9052 0.01890 1.9162 2.8978 1.009.01 5.0 1.003.2 3.77 1002.09 3.77 1002.09 1.017 1.9460 2.7420 0.1899 1.28966 1.003.1 5.77 1002.09 3.77 1002.09 3.77 1002.09 1.017 1.0051 1.0051 1.0051 1.0051 1.005.00 1.0051 1.0051 1.005.00 1.005.00 1.0051 1.0051 1.005.00 1.0051 1.005.00 1.005.0	Mean = 511.9	± 3.5 Ma, MS	3WD = 0.91, p.	rob = 0.50			00 /0.1	6 /00.1	0.0070		0.0079		0.0042	0.9922	67.1.76	000.	00.11.0	10.07	218.42	2.3
117.9 2.9 5.3456 1.4963 0.0781 1.3759 2.0139 2.1287 0.1871 1.4835 1105.79 2.97 1148.94 4.76 112.28 5.2665 1.5244 0.0777 1.3663 2.0299 2.0553 0.1897 1.487 119.90 2.97 1098.00 5.77 1112.38 5.3620 2.8927 0.0760 1.0117 1.3460 2.7720 0.1840 2.8965 1089.01 5.80 1080.27 3.83 1095.00 5.3850 2.8927 0.0764 1.0265 1.9609 1.9720 0.1861 2.8965 1100.31 5.77 1092.98 3.71 1103.66 5.389 2.8925 0.0746 1.0265 1.9607 1.9612 2.7720 0.1849 2.8965 1100.31 5.77 1052.98 3.71 1103.66 5.3891 2.8912 0.0744 1.0571 1.9860 2.7850 0.1869 2.8965 1100.31 5.77 1105.09 3.72 1103.66 5.3891 2.8912 0.0744 1.0571 1.9860 2.7855 0.1849 2.8865 1096.30 5.77 1105.09 4.05 1079.38 5.3891 2.8912 0.0742 1.0571 1.9860 2.7851 0.1849 2.9067 1091.21 5.81 1100.51 4.21 1098.84 5.3891 2.8912 0.0762 1.1579 1.9861 2.8257 0.1864 2.9067 1091.21 5.81 1100.51 4.21 1098.84 5.3891 2.8912 0.0762 1.1579 1.3861 2.8257 0.1868 2.9107 1097.65 5.82 1087.38 3.82 1093.66	Recommende	ed age = 512	6 ± 3.9 Ma, In	ternal standa		f Tasmania														
117.9 2.9 5.2728 1.5042 0.0761 1.5844 1.9908 2.1558 0.1897 1.4867 1119.90 2.97 1098.00 5.77 1112.38 1112.38 112.38 1.2029 2.0553 0.1896 1.5127 1118.95 3.03 1138.64 4.77 1125.60 1.2550 2.2224 2.8948 0.0775 1.3663 2.7720 2.7420 0.1840 2.8965 1098.01 5.80 1098.27 3.83 1085.00 1.997.08 1.3328 2.8927 0.0746 1.0265 1.9650 2.7420 0.1867 2.8956 1100.31 5.77 1092.49 3.77 1097.08 1.3328 2.8925 0.0746 1.0265 1.9651 2.7520 0.1865 2.8978 1068.00 5.00 1055.82 3.98 1092.89 1092.89 1.37 1092.49 1.0261 1.2560 1.3561 2.8927 1091.21 5.81 1065.82 3.98 1092.89 1092.89 1.37 1097.08 1.3261 2.8812 0.0746 1.0571 1.9850 2.7861 0.1849 2.8956 1091.21 5.81 1100.51 4.21 1095.89 1093.85 1091.21 5.81 1100.51 4.21 1093.89 1093.89 1.37 1093.89 1.3961 2.8928 1.3961 1.3961 2.827 0.1869 2.9107 1097.65 5.8 1087.38 3.82 1093.86 1093.85 1093.89 1.3961 2.827 0.1869 2.9107 1097.65 5.8 1097.39 3.82 1093.89 1093.89 1.3961 2.827 0.1859 2.9107 1097.65 5.8 1097.39 3.82 1093.89 1093.89 1.3961 1.3961 2.827 0.1859 2.9107 1097.65 5.8 1087.38 3.82 1093.86 1093.89 1.3961 2.827 0.1859 2.9107 1097.65 5.8 1087.38 3.82 1093.89 1093.89 1.3961 2.827 0.1859 2.9107 1097.65 5.8 1087.38 3.82 1093.89 1093.89 1093.89 1.3961 2.827 0.1859 2.9107 1097.65 5.8 1097.39 3.82 1093.89 1093.89 1.3961 2.827 0.1859 2.9107 1097.65 5.9 1097.39 3.82 1093.89 1097.89 1.3961 2.827 0.1859 2.9107 1097.65 5.9 1097.39 3.82 1093.89 1097.89 1.3961 2.827 0.1859 2.9107 1097.65 5.9 1097.39 3.82 1093.89 1097.89 1.3961 2.827 0.1859 2.9107 1097.65 5.9 1097.39 3.82 1093.89 1097.89 1.3961 2.827 0.1859 2.9107 1097.65 5.9 1097.39 3.82 1093.89 1097.89 1.3961 2.827 0.1859 2.9107 1097.65 5.9 1097.39 3.82 1093.89 1097.89 1097.89 1.3961 2.827 0.1859 2.9107 1097.65 5.9 1097.99 1.3961 2.907 1097.99 1.3961 2.907 1097.99 1.3961 2.907 1097.99 1.3961 2.907 1097.99 1.3961 2.907 1097.99 1.3961 2.907 1097.99 1.3961 2.907 1097.99 1.3961 2.907 1097.99 1.3961 2.907 1097.99 1.3961 2.907 1097.99 1.3961 2.907 1097.99 1.3961 2.907 1097.99 1.3961 2.907 1097.99 1.3961 2.907 1097.99 1.3961 2.907 1097.99 1.3961 2.907 1097.99 1.3961	R10_2_1	Rutile	1103.6	2.9	1103.6	2.9	5.3456	1.4963	0.0781	1.3759	2.0139	2.1287	0.1871	1.4835	1105.79	2.97	1148.94	4.76	1120.20	4.26
117.9 2.9 5.2729 1.5244 0.0777 1.3663 2.0299 2.0553 0.1896 1.5127 1.18.95 3.03 1138.64 4.77 1125.60 5.4224 2.8948 0.0756 1.0309 1.9112 2.7720 0.1840 2.8965 1.095.01 5.60 1.092.98 3.71 1.097.08 5.3820 2.8827 0.0764 1.0265 1.9652 2.7460 0.1867 2.8966 1.100.31 5.77 1.082.98 3.71 1.097.08 5.3981 2.8912 0.0744 1.0671 1.4890 2.7520 0.1865 2.8976 1.094.05 5.0 1.065.82 3.98 1.092.89 5.3761 2.8912 0.0776 1.0571 1.3961 2.8257 0.1864 2.9067 1.091.21 5.81 1100.51 4.21 1.093.85 5.3761 2.9157 0.0757 1.0373 1.3961 2.8257 0.1866 2.9107 1.097.65 5.82 1.087.38 3.82 1.093.66	R10_2_2	Rutile	1119.9	3.0			5.2695	1.5042	0.0761	1.5844	1.9908	2.1558	0.1897	1.4867	1119.90	2.97	1098.00	5.77	1112.38	4.31
5.4224 2.8848 0.0755 1.0309 1.9112 2.7720 0.1840 2.8865 1008.01 5.80 1080.27 3.83 1085.00 5.3820 2.8827 0.0764 1.0265 1.9650 2.7420 0.1861 2.8866 1100.31 5.77 1982.08 3.71 1097.08 5.3896 2.8825 0.0746 1.0265 1.9652 2.7460 0.1865 2.8796 1104.45 5.77 1082.09 3.71 1037.8 5.3811 2.8812 0.0744 1.0571 1.8950 2.7852 0.1849 2.8856 1083.42 5.77 1052.09 4.05 1079.35 5.3761 2.9157 0.0757 1.0373 1.3961 2.8257 0.1866 2.9107 1097.65 5.82 1087.38 3.82 1093.66	R10_2_3	Rutile	1117.9	2.9	1117.9	2.9	5.2729	1.5244	0.0777	1.3663	2.0299	2.0553	0.1896	1.5127	1118.95	3.03	1138.64	4.77	1125.60	4.1
5.3620         2.8827         0.0760         1.0117         1.9460         2.7420         0.1861         2.8866         1100.31         5.77         1092.98         3.71         1097.09           5.3965         2.8735         0.0764         1.0265         1.9652         2.7860         0.1869         2.8796         1104.45         5.76         1103.48         3.72         1103.66           5.3761         2.8815         0.0744         1.0429         1.9052         2.7861         0.1849         2.8856         1093.42         5.77         1052.09         4.05         1079.35           090.7         5.6         5.4128         2.9053         0.0762         1.579         1.9361         2.8257         0.1866         2.9107         1097.65         5.82         1087.38         3.82         1093.66	R10_2_4	Rutile	1089.0	5.8			5.4224	2.8948	0.0755	1.0309	1.9112	2.7720	0.1840	2.8985	1089.01	5.80	1080.27	3.83	1085.00	5.54
5.3956 2.8735 0.0764 1.0266 1.9652 2.7460 0.1869 2.8796 1104.45 5.76 1103.48 3.72 1103.68 1103.68 5.3789 1.9051 2.7590 0.1852 2.8978 1.0051 0.5.80 1052.89 1.002.89 1	R10_2_5	Rutile	1100.3	5.8			5.3620	2.8827	0.0760	1.0117	1.9460	2.7420	0.1861	2.8866	1100.31	5.77	1092.98	3.71	1097.08	5.48
5.3789 2.8825 0.0746 1.0429 1.9051 2.7520 0.1855 2.8978 1.096.80 5.80 1055.82 3.98 1082.89 5.3881 2.8812 0.0774 1.0571 1.8950 2.7555 0.1849 2.8856 1.093.42 5.77 1.052.09 4.05 1.079.35 090.7 5.6 5.4728 2.9053 0.0762 1.1579 1.9503 2.7861 0.1844 2.9067 1.091.21 5.81 1.100.51 4.21 1.098.54 5.3761 2.9157 0.0757 1.0373 1.9361 2.8257 0.1856 2.9107 1.097.65 5.82 1.087.38 3.82 1.093.66	R10_2_6	Rutile	1104.4	5.8			5.3395	2.8735	0.0764	1.0265	1.9652	2.7460	0.1869	2.8796	1104.45	5.76	1103.48	3.72	1103.66	5.49
5,3881 2,8812 0,0744 1,0571 1,8850 2,7855 0,1849 2,8856 1063,42 5,77 1052,09 4,05 1079,35 0,907 5,6 5,4728 2,9053 0,0762 1,1579 1,9503 2,7861 0,1844 2,9067 1061,21 5,81 1100,51 4,21 1098,54 5,3761 2,9157 0,0757 1,0373 1,9361 2,827 0,1856 2,9107 1097,65 5,82 1087,38 3,82 1093,66	R10_2_7	Rutile	1096.8	5.8			5.3789	2.8925	0.0746	1.0429	1.9051	2.7520	0.1855	2.8978	1096.80	5.80	1055.82	3.98	1082.89	5.50
090.7 5.6 5.4128 2.5053 0.0762 1.1579 1.5903 2.7661 0.1844 2.5067 1091.61 5.81 1100.51 4.21 1086.54 5.3761 2.9157 0.0757 1.0373 1.5961 2.8257 0.1856 2.9107 1097.65 5.82 1087.38 3.82 1083.66	R10_2_8	Rutile	1093.4	5. S	0000	C L	5.3981	2.8812	0.0744	1.0571	1.8950	2.7555	0.1849	2.8856	1093.42	5.77	1052.09	4.05	1079.35	5.51
5.3/01 2.3/13/ 0.0/03/ 1.007/3 1.3001 2.02/1 0.1030 2.3/10/ 1087.03 3.02 1095.00	K10_2 9	e Line	1090.7	0. 0.	1090.7	0.0	5.4128	2.9053	0.0762	1.1579	1.9503	2.7861	0.1844	2.9067	1091.21	. 6	1100.51	1.2.4	1098.54	5.57
Mean inter a la Manyu = U.S.A. Jobs - U.S.A. Jobs - U.S.A. Recommended age = 109 IS S.A. Jobs - U.S.A. K10 2 10	Kutile	9.780r	9.8			5.3761	7518.7	0.0757	1.0373	1.9361	7.825/	0.1856	7.9107	co. /60 L	29.6	1087.38	3.82	1093.66	5.65	
	Recommende	± 14, MSWD	= 0.24, prob = 1.6 ± 3.5 Ma; L	uvizotto et al	1., 2009;															

Appendix G: U-Pb geochronology age standards

Analysis	Mineral	Pref.	Pref.	207cor 206Pb/238 U	207cor 206Pb/238 U	238U/206P		207Pb/206P b		207Pb/235 U (calc)		206Pb/238 U		206Pb/238 U		207Pb/206P b		207Pb/235 U (calc)	
,		(Ma)	(Ma) 2s%	Age (Ma)	2s%	ratio	15%	ratio	15%	ratio	15%	ratio	1s%	Age (Ma)	2s%	Age (Ma)	25%	Age (Ma)	2s%
R19_2_1	Rutile	489.6	3.7	489.6	3.7	12.5920	1.8400	0.0620	4.1451	0.6779	4.3078	0.0794	1.8582	492.55	3.72	671.84	26.39	525.53	8.62
R19_2_2	Rutile	543.1	7.3			11.3807	3.7325	0.0584	14.5138	0.7079	8 8	0.0879	3.6419	543.11	7.28	543.03	116.83	543.50	0.67
R19_2_3	Rutile	485.1	3.8	485.1	3.8	12.7649	1.8452	0.0592	4.0941	0.6394	4.2671	0.0784	1.8958	486.47	3.79	573.99	31.02	501.90	8.53
R19_2_4	Rutile	487.7	5.9	487.7	2.9	12.6989	2.9826	0.0576	3.3645	0.6234	3.9722	0.0787	2.9867	488.11	5.97	514.56	28.72	492.01	7. p
R19_2_5	Kutile Rutile	478.5	8.0	4/8.5	89.	12.8/18	2.9697	0.0613	3.1980	0.6537	3.7875	0.0779	3.0029	481.16	5.95 0.05	647.62	30.94	510.75	25.58
R19 2 7	Rutile	481.2	0.0	481.2	6.0	12.8952	3.0446	0.0623	3.9042	10000	ř	0.0780	3.0488	484.37	6.10	682.91	24.41	0:00	7
R19_2_8	Rutile	501.1	0.9			12.3438	2.9816	0.0564	3.1732	0.6275	4.0055	0.0808	2.9857	501.09	5.97	465.38	30.20	494.53	8.01
R19_2_9	Rutile	495.5	5.9	495.5	5.9	12.4692	2.9710	0.0580	3.0572	0.6394	3.8820	0.0800	2.9989	496.09	00.9	530.23	25.26	501.96	7.76
Mean = 489.	R19.2_10 Rutile 483.1 5.9  Mean = 489.5 ± 8.0, MSWD = 1.08, prob = 0.38  Recommended and = 489.5 ± 8.0 Mar Zack et al. 2014 + TMS	483.1 D = 1.08, prob 5 + 0.9 Mar 7	5.9 = 0.38	SMIT	_	12.8115	2.9666	0.0567	2.9518	0.6076	3.8373	0.0778	2.9698	483.14	5.94	477.57	27.32	482.06	79.7
		,			_														
TB-1_2_1	Rutile			503.6	2.6	12.3025	1.3530	0.0576	1.9122	0.6447	1.3466	0.0813	1.3351	503.79	2.67	512.00	16.41	505.19	2.69
TB-1_2_2	Rutile					11.9343	1.3530	0.0576	2.0092	0.6648	1.3466	0.0838	1.3351	518.68	2.67	512.80	17.22	517.52	2.69
TB-1_2_3	Rutile					12.0029	1.3530	0.0576	2.2296	0.6605	1.3466	0.0833	1.3351	515.56	2.67	512.09	19.13	514.91	2.69
TB-1_2_4	Rutile			507.2	2.6	12.2125	1.3514	0.0576	2.0587	0.6481	1.3466	0.0819	1.3460	507.33	2.69	512.67	17.64	507.28	2.69
TB-1_2_5	Kutle					11.9820	1.3514	0.0576	1.8007	0.6607	1.3466	0.0834	1.3460	516.67	2.69	512.63	15.43	515.04	2.69
TB-1_2_6	Kutile Rutile					12.0363	2.8466	0.0576	1.2849	0.6565	2.5272	0.0829	2.8499	513.55	5.70	511.92	11.03	512.47	5.05
TB-1 2 8	Buffle					11 7979	2 8466	0.0576	1 4556	0.6704	2 5272	0.0846	2 8499	523.77	5.70	512.32	12.48	520.97	5 05
TB-1 2 9	Rutile			500.8	5.6	12.3500	2.8466	0.0575	1.5630	0.6401	2.5272	0.0808	2.8499	501.02	5.70	511.59	13.43	502.35	5.05
TB-1 2 10	Rutile			494.6	5.6	12.5145	2.8466	0.0576	1.5359	0.6323	2.5272	0.0798	2.8499	494.90	5.70	512.18	13.18	497.54	5.05
TB-1_2_11	Rutile			494.0	5.6	12.5145	2.8466	0.0576	2.3883	0.6317	2.5272	0.0797	2.8499	494.29	5.70	511.86	20.50	497.16	5.05
TB-1_2_12	Rutile			489.6	5.6	12.6950	2.8466	0.0575	2.2455	0.6427	2.5272	0.0790	2.8499	489.95	5.70	510.77	19.32	503.97	5.05
TB-1_2_13	Rutile					11.7193	2.8466	0.0576	1.4675	0.6782	2.5272	0.0855	2.8499	529.14	5.70	512.56	12.58	525.68	5.05
TB-1_2_14	Rutile					11.7967	2.8466	0.0576	1.1587	0.6706	2.5272	0.0846	2.8499	523.28	5.70	512.17	9.94	521.07	5.05
TB-1_2_15	Rutile					11.9079	2.8466	0.0576	2.7099	0.6614	2.5272	0.0844	2.8499	522.58	5.70	512.63	23.23	515.47	5.05
TB-1_2_16	Rutile			208.0	5.6	12.1679	2.8466	0.0576	1.2530	0.6502	2.5272	0.0820	2.8499	508.10	5.70	512.19	10.75	508.59	5.05
TB-1_2_17	Rutle			902.0	9.6	12.2430	2.8466	0.0576	1.5190	0.6461	2.5272	0.0815	2.8499	505.13	5.70	511.82	13.04	506.08	5.05
Mean = 511.	Mean = 511.9 ± 4.8. MSWD = 0.87. prob = 0.61	0 = 0.87. prob	= 0.61			200	2010	2000	2	0000	2.3212	0000	7.0433	<u>†</u>	5	0 2	<del>+</del> 7: -	2	3
Recomment	Recommended age = 512.6 ± 3.9 Ma, internal standard,	.6±3.9 Ma, In	nternal standa	ırd, University of Tasmania	of Tasmania														
R10 3 1	Rutile	1069.8	6.9	1069.8	6.9	5.5294	3.5497	0.0758	1.0591	1.8889	3.7103	0.1807	3.5834	1070.76	7.17	1089.67	3.89	1077.19	7.42
R10_3_2	Rutile	1073.0	6.9	1073.0	6.9	5.5015	3.5218	0.0770	1.0023	1.9248	3.6809	0.1815	3.5657	1075.18	7.13	1121.30	3.56	1089.74	7.36
R10_3_3	Rutile	1087.9	7.1			5.4334	3.5255	0.0752	1.0623	1.9035	3.6892	0.1838	3.5747	1087.86	7.15	1074.11	3.97	1082.31	7.38
R10 3 4	Rutile	1094.5	6.9	1094.5	6.9	5.3930	3.5158	0.0771	0.9862	1.9692	3.6918	0.1853	3.5619	1095.84	7.12	1123.17	3.50	1105.04	7.38
Mean = 108 Recomment	Mean = 1081 ± 37 Ma, MSWD = 0.099, prob = 0.36 Recommended age = 1091.6 ± 3.5 Ma; Luvizotto et al TIMS	WD = 0.099, p. 1.6 ± 3.5 Ma;	Luvizotto et a	I., 2009;															
2 2 2	Q.	460.6	7 3			13 2051	3 5847	0.0547	2 0763	0.5600	7 5830	0.0756	3 6308	460 56	7 26	308 33	33.40	457.00	0 17
R19_3_2	Rutile	470.5	7.1	470.5	7.1	13.1555	3.5914	0.0578	3.3231	0.6037	4.8546	0.0758	3.6362	471.25	7.27	521.73	27.94	479.60	9.71
R19 3 3	R19 3 3 Rutile 472.4	472.4	7.3			13.1448	3.5857	0.0564	3.3731	0.5904	5.0060	0.0760	3.6507	472.36	7.30	468.95	31.84	471.15	0.0
0.993	, in	1,000	- 20																
Recommended	ded age = 489	.5 ± 0.9 Ma; Z	age = 489.5 ± 0.9 Ma; Zack et al., 2011; TIMS	1; TIMS															

Appendix G: U-Pb geochronology age standards

Analysis	Mineral	Pref. Age	Pref. Age	207cor 206Pb/238 U	207cor 206Pb/238 U	238U/206P b		207Pb/206P b		207Pb/235 U (calc)		206Pb/238 U		206Pb/238 U		207Pb/206P b		207Pb/235 U (calc)	
		(Ma)	(Ma) 2s%	Age (Ma)	2s%	ratio	1s%	ratio	1s%	ratio	18%	ratio	15%	Age (Ma)	2s%	Age (Ma)	25%	Age (Ma)	2s%
TB-1_3_1	Rutile					11.4629	3.4874	0.0575	1.6343	2069.0	3.5300	0.0871	3.5329	538.22	7.07	508.62	14.13	533.25	90.7
TB-1_3_2	Rutile			489.4	6.9	12.6455	3.4874	0.0575	1.4922	0.6261	3.5300	0.0789	3.5329	489.67	7.07	508.76	12.90	493.66	7.06
TB-1_3_3	Rutile					11.8286	3.4874	0.0576	1.1273	0.6695	3.5300	0.0844	3.5329	522.35	7.07	512.30	29.6	520.38	2.06
TB-1_3_4	Rutile			496.9	6.9	12.4530	3.4874	0.0576	1.2560	0.6360	3.5300	0.0802	3.5329	497.14	7.07	512.68	10.76	499.81	7.06
TB-1_3_5	Rutile					12.0341	3.4874	0.0576	1.3347	0.6601	3.5300	0.0832	3.5329	515.34	7.07	515.14	11.38	514.69	7.06
TB-1_3_6	Rutile			514.1	6.9	12.0325	3.4874	0.0576	1.3103	0.6586	3.5300	0.0830	3.5329	514.10	7.07	514.29	11.19	513.79	7.06
TB-1_3_7	Rutile			499.7	6.9	12.3807	3.4874	0.0576	1.4651	0.6395	3.5300	0.0806	3.5329	499.95	7.07	512.77	12.55	502.00	90.7
TB-1_3_8	Rutile			496.4	6.9	12.4771	3.4874	0.0575	1.5763	0.6354	3.5300	0.0801	3.5329	496.61	7.07	510.08	13.58	499.44	90.7
TB-1_3_9	Rutile					11.5604	3.4874	0.0575	1.2318	0.6856	3.5300	0.0864	3.5329	534.45	7.07	509.37	10.63	530.18	90.7
Mean = 511 ±	12 Ma, MSWD	Mean = 511 ± 12 Ma, MSWD = 0.91, prob = 0.51	0.51																
Recommende	d age = 512.6	.±3.9 Ma, Inter	nal standard,	Recommended age = 512.6 ± 3.9 Ma, Internal standard, University of Tasmania	ısmania														
R10 4 1	Rutile	1075.1	5.6	1075.1	5.6	5.5130	2.8665	0.0759	1.5555	1.9029	3.2670	0.1816	2.9143	1075.89	5.83	1092.50	5.70	1082.10	6.53
R10_4_2	Rutile	1090.1	5.8			5.4148	2.8757	0.0757	1.5576	1.9233	3.2865	0.1842	2.9248	1090.05	5.85	1085.47	5.75	1089.21	6.57
R10_4_3	Rutile	1124.3	5.9			5.2424	2.8808	0.0767	1.4456	2.0151	3.2451	0.1905	2.9306	1124.28	5.86	1112.73	5.19	1120.62	6.49
R10_4_4	Rutile	1111.2	5.8			5.3212	2.8434	0.0749	1.6419	1.9429	3.3308	0.1881	2.8954	1111.19	5.79	1064.95	6.20	1095.98	99.9
R10_4_5	Rutile	1128.9	5.8			5.2338	2.8633	0.0771	1.5812	2.0334	3.2842	0.1914	2.9101	1128.89	5.82	1122.75	5.61	1126.77	6.57
R10_4_6	Rutile	1117.9	4.7			5.2833	2.3332	0.0745	1.1855	1.9416	2.6346	0.1894	2.3453	1117.87	4.69	1052.82	4.54	1095.54	5.27
R10_4_7	Rutile	1112.5	4.7			5.3217	2.3098	0.0743	1.2785	1.9533	2.6551	0.1884	2.3314	1112.48	4.66	1048.54	4.92	1099.58	5.31
R10_4_8	Rutile	1080.8	4.5	1080.8	4.5	5.4608	2.2914	0.0779	1.0666	1.9631	2.5268	0.1831	2.3103	1083.65	4.62	1142.77	3.71	1102.95	5.05
R10_4_9	Rutile	1089.6	4.5	1089.6	4.5	5.4239	2.3102	0.0761	1.1146	1.9311	2.5722	0.1842	2.3156	1089.98	4.63	1097.17	4.07	1091.93	5.14
R10_4_10	Rutile	1092.3	4.5	1092.3	4.5	5.4132	2.2912	0.0761	1.0783	1.9363	2.5218	0.1847	2.3096	1092.62	4.62	1097.69	3.93	1093.74	5.04
Mean = 1100 ±	± 17 Ma, MSW	Mean = 1100 ± 17 Ma, MSWD = 0.43, prob = 0.92	= 0.92	noo. Time															
Pecolilliende	10 aye - 1091.	0 I 3.3 Ma, Lu	VIZULIO EL AI., 4	.003, 1 IMO															
R19_4_1	Rutile	495.4	6.3			12.5169	3.0767	0.0538	4.7225	0.5924	5.4215	0.0799	3.1608	495.38	6.32	362.22	58.80	472.41	10.8
R19_4_2	Rutile	485.2	6.3			12.7534	3.0815	0.0563	4.5960	0.6074	5.3128	0.0782	3.1541	485.18	6.31	462.30	44.06	481.91	5 £
R19_4_3	Rutile	490.7	6.4			12.6842	3.1023	0.0568	4.8403	0.6192	5.5122	0.0791	3.2102	490.68	6.42	481.28	44.43	489.33	5 64
R19_4_4	Rutile	482.6	5.0	482.6	5.0	12.8926	2.5338	0.0573	4.5019	0.6219	4.8997	0.0778	2.5470	482.91	5.09	501.65	39.51	491.02	9.80
R19_4_5	Rutile	471.1	4.8	471.1	4.8	13.1651	2.4261	0.0575	3.5669	0.6016	4.1950	0.0759	2.4399	471.66	4.88	511.00	30.68	478.22	8.39
R19_4_6	Rutile	468.6	4.8	468.6	4.8	13.2423	2.4244	0.0580	3.2225	0.6031	3.8818	0.0755	2.4525	469.45	4.90	528.59	26.71	479.23	7.76
R19_4_7	Rutile	484.1	4.8	484.1	4.8	12.7985	2.4211	0.0580	3.1860	0.6243	3.8434	0.0781	2.4348	484.81	4.87	530.41	26.31	492.55	7.69
R19_4_8	Rutile	495.4	6.2	495.4	6.2	12.5031	3.0895	0.0586	4.6462	0.6465	5.3493	0.0800	3.1377	496.30	6.28	551.47	36.78	506.34	0
R19_4_9	Rutile	465.0	4.8	465.0	4.8	13.3219	2.4110	0.0588	3.0742	0.6078	3.7734	0.0750	2.4461	466.43	4.89	559.68	23.94	482.19	7.55
R19 4 10	Rutile	510.5	9.4	510.5	9.4	11.9015	4.5162	0.0755	12.0828	0.8799	200	0.0843	4.6521	521.55	9.30	1081.06	44.84	640.94	0
Mean = 481.4	±8.1 Ma, MSV	VD = 0.91, prot	0 = 0.51																
recommended age - 403.9 I. 0.9 Ma, cach et al., 2011; TIMS	10 age - 409.5	1 0.3 Ma, Zac.	n et al.,																

Appendix G: U-Pb geochronology age standards

	2s%	5.64	5.64	5.64	5.64	5.64	5.64	5.64	5.64	5.64	5.64	5.64	4.51	4.51	4.51	4.51	4.51	4.51	4.51	4.51	4.51	4.51			3 41	3.41	3.41	3.41	3.41	4.51	4.51	4.51	4.51	4.51	4.51	4.51	4.51			4.82	4.81	5.37	5.47	2.57	5.23		
207Pb/235 U (calc)	Age (Ma)	503.85	510.24	539.41	511.70	498.17	512.70	503.87	502.19	514.90	513.37	520.97	516.37	520.88	504.11	500.23	507.33	509.48	514.40	523.89	522.96	499.99			516.87	509.80	501.64	512.28	519.23	508.38	508.76	515.78	509.57	527.54	506.35	520.74	498.59			1108.70	1080.46	1088.46	1117.58	1120.08	1116.62		
	2s%	18.65	15.34	19.31	15.82	23.16	20.87	29.08	19.69	28.23	16.59	25.67	10.82	11.78	16.18	14.12	11.92	14.88	11.80	14.77	12.59	16.08			16.55	14.81	19.52	15.03	14.29	11.21	12.82	10.61	11.34	10.46	19.33	9.93	15.67			5.60	5.90	4.31	4.46	4.46	4.87		
207Pb/206P b	Age (Ma)	509.10	508.46	508.91	509.57	510.71	509.77	510.55	512.20	512.39	512.67	512.11	512.63	513.64	513.09	513.97	514.43	514.27	514.04	513.82	513.46	513.67			502 74	505 75	506.39	509.33	510.12	509.42	509.46	512.01	512.04	514.70	514.85	521.33	522.18			1120.62	1071.51	1065.35	1111.13	1095.91	1061.49		
	2s%	5.67	2.67	2.67	2.67	2.67	2.67	2.67	2.67	2.67	2.67	2.67	4.51	4.51	4.51	4.51	4.51	4.51	4.51	4.51	4.51	4.51			185	8, 1	185	1.85	1.85	3.53	3.53	3.53	3.53	3.53	3.53	3.53	3.53			2.59	2.53	3.78	3.82	3.84	3.76		
206Pb/238 U	Age (Ma)	502.11	509.77	546.09	511.53	495.00	513.01	502.07	499.97	515.58	513.56	523.18	517.32	522.96	502.42	497.68	506.25	508.89	514.90	526.61	525.52	497.37			511.85	517.16	507.06	508.01	515.91	508.81	509.25	516.42	508.83	529.21	503.27	517.13	503.03			1106.71	1096.30	1081.41	1085.66	1091.74	1095.74		
	18%	2.8346	2.8346	2.8346	2.8346	2.8346	2.8346	2.8346	2.8346	2.8346	2.8346	2.8346	2.2553	2.2553	2.2553	2.2553	2.2553	2.2553	2.2553	2.2553	2.2553	2.2553			0.9268	0 9268	0.9268	0.9268	0.9268	1.7660	1.7660	1.7660	1.7660	1.7660	1.7660	1.7660	1.7660			1.2956	1.2665	1.8900	1.9120	1.9219	1.8783		
206Pb/238 U	ratio		0.0823	0.0884	0.0826	0.0798	0.0828	0.0810	0.0806	0.0833	0.0829	0.0845	0.0836	0.0845	0.0811	0.0803	0.0817	0.0821	0.0831	0.0851	0.0849	0.0802			0.0826	0.0835	0.0818	0.0820	0.0833	0.0821	0.0822	0.0834	0.0821	0.0856	0.0812	0.0835	0.0812			0.1873	0.1854	0.1826	0.1834	0.1845	0.1853		
	15%	2.8177	2.8177	2.8177	2.8177	2.8177	2.8177	2.8177	2.8177	2.8177	2.8177	2.8177	2.2542	2.2542	2.2542	2.2542	2.2542	2.2542	2.2542	2.2542	2.2542	2.2542			1 7040	1 7040	1.7040	1.7040	1.7040	2.2566	2.2566	2.2566	2.2566	2.2566	2.2566	2.2566	2.2566			2.4107	2.4039	2.6874	2.7334	2.7845	2.6167		
207Pb/235 U (calc)	ratio		0.6529	0.7010	0.6552	0.6333	0.6569	0.6425	0.6398	0.6605	0.6580	0.6704	0.6629	0.6703	0.6429	0.6367	0.6481	0.6516	0.6596	0.6752	0.6737	0.6363			0.6637	0.6523	0.6389	0.6562	0.6676	0.6498	0.6505	0.6619	0.6518	0.6813	0.6465	0.6700	0.6340			1.9799	1.8982	1.9211	2.0061	2.0135	2.0033		
	15%	2.1596	1.7737	2.2352	1.8337	2.6909	2.4200	3.3780	2.2952	3.2915	1.9358	2.9911	1.2625	1.3773	1.8891	1.6521	1.3959	1.7418	1.3809	1.7277	1.4719	1.8801			1.8906	1 7025	2.2475	1.7407	1.6582	1.2984	1.4861	1.2365	1.3214	1.2258	2.2660	1.1796	1.8654			1.5748	1.5748	1.1425	1.2410	1.2216	1.2854		
207Pb/206P b	ratio		0.0575	0.0575	0.0575	0.0575	0.0575	0.0575	0.0576	0.0576	0.0576	0.0576	0.0576	0.0576	0.0576	0.0576	0.0576	0.0576	0.0576	0.0576	0.0576	0.0576			0.0573	0.0574	0.0574	0.0575	0.0575	0.0575	0.0575	0.0576	0.0576	0.0576	0.0576	0.0578	0.0578			0.0770	0.0751	0.0749	0.0766	0.0761	0.0748		
	15%	2.7824	2.7824	2.7824	2.7824	2.7824	2.7824	2.7824	2.7824	2.7824	2.7824	2.7824	2.2406	2.2406	2.2406	2.2406	2.2406	2.2406	2.2406	2.2406	2.2406	2.2406			0.9162	0.0162	0.9162	0.9162	0.9162	1.9432	1.9432	1.9432	1.9432	1.9432	1.9432	1.9432	1.9432			1.2620	1.3349	2.0592	2.0885	2.0881	2.0397		
238U/206P b	ratio	12.4095	12.1133	11.2865					12.3947	12.0155			11.9653	11.8392		12.4639	12.2028	12.1744	12.0227	11.7435	11.7699	12.4622			12 1009	11 9675			12.0080	12.1882	12.1754	11.9821	12.1708	11.6622	12.2925	11.9094	12.3974			5.4187	5.3995	5.4920	5.4840	5.4446	5.4242		
207cor 206Pb/238 U	2s%	5.5				9.6		5.6	5.5						4.4	4.4	4.4	4.4				4.4		of Tasmania				1.8		3.5	3.5		3.5		3.5	3.5	3.5	Tomania	r I asmania	2.5			3.7	3.7			
207cor 206Pb/238 U	Age (Ma)	502.0				494.7		501.9	499.8						502.2	497.4	506.1	508.8				497.1		Recommended age = 512.6 $\pm$ 3.9 Ma, Internal standard, University of Tasmania				508.0		508.8	509.2		508.8		503.1	517.0	502.7	o volumential bank	Kecominended age = 51 χ.δ χ.δ.9 Ma, Internal Standard, University of Tasmania	1106.0			1084.4	1091.5		al., 2009;	
Pref. Age	(Ma) 2s%																						rob =	ternal stand														= dor	ternal stand	2.5	2.5	3.8	3.7	3.7	3.8	bb = 0.93	
Pref. Age	(Ma)																						WD = 0.85, pr	. ± 3.9 Ma, In													200	WD = 0.83, p.	о I 3.9 Ма, III.	1106.0	1096.3	1081.4	1084.4	1091.5	1095.7	/D = 0.28, pro 6 ± 3.5 Ma; L	
Mineral		Rutile	Rutile	Rutile	Rutile	Rutile	Rutile	Rutile	Rutile	Rutile	Rutile	Rutile	Rutile	Rutile	Rutile	Rutile	Rutile	Rutile	Rutile	Rutile	Rutile	Rutile	E 5.5 Ma, MS	dage = 512.0	Rittile	A di	Rutile	Rutile	Rutile	Rutile	Rutile	Rutile	Rutile	Rutile	Rutile	Rutile	Rutile	2.5 Ma, MS	u age = 512.	Rutile	Rutile	Rutile	Rutile	Rutile	Rutile	14 Ma, MSW age = 1091	
Analysis		TB-1_4_1	TB-1_4_2	TB-1_4_3	TB-1_4_4	TB-1_4_5	TB-1_4_6	TB-1_4_7	TB-1_4_8	TB-1_4_9	TB-1_4_10	TB-1_4_11	TB-1_4_12	TB-1_4_13	TB-1_4_14	TB-1_4_15	TB-1_4_16	TB-1_4_17	TB-1_4_18	TB-1_4_19	TB-1_4_20	TB-1_4_21	Mean = 511.5 ± 5.5 Ma, MSWD = 0.85, prob = 0.66	Recommended	TB-1 5	TB-1 5.2	TB-1 5 3	TB-1 5 4	TB-1_5_5	TB-1_5_6	TB-1_5_7	TB-1_5_8	TB-1_5_9	TB-1_5_10	TB-1_5_11	TB-1_5_12	TB-1 5 13 Rutile	0.62 0.62	Кесоттепае	R10_5_1	R10_5_2	R10_5_3	R10_5_4	R10_5_5	R10 5 6	Mean = 1095 ± 14 Ma, MSWD = 0.28, prob = 0.93 Recommended age = 1091.6 ± 3.5 Ma; Luvizotto et al., 2009	TIMS

Appendix G: U-Pb geochronology age standards

Analysis	Mineral	Pref. Age	Pref. Age	207cor 206Pb/238 U	207cor 206Pb/238 U	238U/206P b		207Pb/206P b		207Pb/235 U (calc)		206Pb/238 U		206Pb/238 U		207Pb/206P b		207Pb/235 U (calc)	
		(Ma)	(Ma) 2s%	Age (Ma)	2s%	ratio	15%	ratio	15%	ratio	1s%	ratio	1s%	Age (Ma)	2s%	Age (Ma)	25%	Age (Ma)	28%
040	9	0.707	0			12 6000	4 0000	0 00 00	01/01/2	0.6071	1200 3	00200	1 0000	404 04	20 0	424.06	57 54	481 73	10.4
0	D C C C C C C C C C C C C C C C C C C C	404	0.0			7.0999	.0202	0.0332	0.4240	0.007	3.220	0.07 30	.9033	40.4	0.0	421.00	0.70	401.73	. 6
R19_5_2	Rutile	498.8	3.8			12.6429	1.8552	0.0565	4.8878	0.6198	5.0895	0.0804	1.8997	498.80	3.80	472.49	45.77	489.73	- œ
R19_5_3	Rutile	483.3	4.5	483.3	4.5	12.9724	2.3275	0.0588	4.0214	0.6493	4.5197	0.0780	2.2586	484.44	4.52	559.33	31.34	508.04	9.04
R19_5_4	Rutile	473.6	4.3			13.1420	2.2300	0.0554	3.5395	0.5925	4.3450	0.0762	2.1254	473.65	4.25	426.47	37.01	472.46	8.69
R19_5_5	Rutile	478.8	4.2	478.8	4.2	13.0027	2.2051	0.0567	3.7523	0.6288	4.3517	0.0771	2.1165	478.81	4.23	480.76	34.48	495.36	8.70
R19_5_6	Rutile	492.0	4.2	492.0	4.2	12.7037	2.2858	0.0574	4.2874	0.6638	4.6760	0.0794	2.1314	492.26	4.26	507.53	37.15	516.91	9.35
Mean = 487.3	± 8.0, MSWD	Mean = 487.3 ± 8.0, MSWD = 1.01, prob = 0.41	0.41																
Recommende	d age = 489.5	± 0.9 Ma; Zac	k et al.,																