"The Age and Sediments Source of the Amadeus Basin Cryogenian-Ediacaran Stratigraphy"

Thesis submitted in accordance with the requirements of the University of Adelaide for an Honours Degree in Geology

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The Age and Sediments Source of the Amadeus Basin Cryogenian-Ediacaran Stratigraphy

ABSTRACT

The Amadeus Basin is a big intracratonic elongate basin that is mainly exposed in the Northern Territory. The sedimentation of the basin began in the Neoproterozoic and ended in Late Devonian/Early Carboniferous. The Amadeus Basin stratigraphy age and source of sediments are not well constrained. This study is trying to better constrain the age and sediments source for the Johnnys Creek formation, Areyonga formation, Pioneer sandstone, Pertatataka formation and the Arumbera sandstone. U-Pb detrital zircon analysis were conducted using Laser Ablation Inductively Coupled Plasma Mass Spectrometry technique (LA-ICP-MS) along with Hf isotopic analysis. The U-Pb data further constrained the depositional age of Pertatataka formation and Areyonga formation with a maximum depositional age (derived from the youngest zircon grain) of 651 ± 19 Ma and 683 ± 20 Ma respectively. The Main source of sediments for the Arumbera sandstone, Pertatataka formation and Areyonga formation is the Musgrave Province, while it is the Arunta region for the Pioneer sandstone. This is based on zircon ages peaks when plotted as probability density function. The epsilon Hf data yielded positive and negative values across all formations age. This is indicative of mix juvenile and recycled crust host magmas.

1. INTRODUCTION

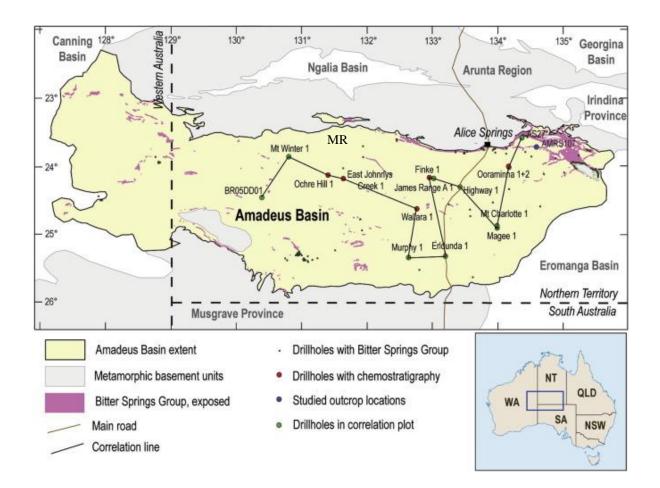


Figure 1: The Amadeus Basin location and its extent. The location of BR05DD01, Wallara-1 cores and MacDonnell Ranges (MR), from which this research samples were obtained. Figure from Susanne (2017).

The Amadeus Basin is a big intracratonic elongate basin that is mainly exposed in the Northern Territory and formed as part of the Centralian Superbasin. Its range extends about 300 km north–south and 800 km east–west and has a sedimentation record that began in the Neoproterozoic and ended in Late Devonian/Early Carboniferous (Edgoose, 2013). Alice Springs Orogeny 450–300 Ma and Petermann Orogeny 580–530 Ma are two major tectonic events that has modified the Amadeus Basin (Edgoose, 2013).

The Amadeus Basin, with proven petroleum reserves, is the most unexplored basin in Australia. The petroleum exploration is focused on Paleozoic rocks (Dentith & Cowan, 2011). Therefore, conducting detrital zircon dating analysis of the Cryogenian – Ediacaran formations of the Amadeus Basin is needed for better understanding of the basin during this period. That is the age of the formations, the source of sediments and the tectonic activity.

Detrital Zircon mineral is highly resistant to chemical attack and abrasion and hence it can be found almost in every siliciclastic sediments. In addition, it can preserve its U-Pb isotopic systematics throughout erosion, weathering, deposition, transport, low-grade metamorphism and diagenesis. Therefore, sedimentary provenance studies can be done using this important tool, detrital zircon dating. It can tell us the sediment contribution of each terrain to a basin and this in turn can tell us the regional and local tectonics as they are strongly linked. However, unique solutions may not be provided by zircon ages because zircons recycling can make the spectra of age more complicated by mixing zircon grains at different times from the same source and separate terrains can be characterised by coeval zircon crystallising events. Therefore, in order to draw a strong correlations in a complex basin with several possible sources, an additional information is required. Hafnium isotope data could possibly distinguish between terrains with

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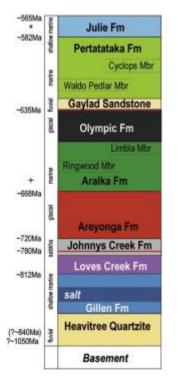
coeval zircon-crystallising events provided that the detrital zircons have dissimilar fractionation histories (Haines et al., 2016).

In this paper, we aim to provide new detrital zircon data for the Amadeus Basin during the Cryogenian - Ediacaran period using six samples from two cores, Wallara-1 and BR05DD01, and three field samples from Western Macdonell Ranges. Samples were taken from the following formations: Areyonga, Johnny Creek, Arumbera, Pioneer and Pertatataka formations. The data includes U-Pb age, hafnium isotopic ratios and REEs concentrations.

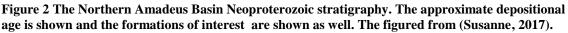
2. GEOLOGICAL BACKGROUND

2.1 Basin Evolution

The Amadeus Basin early history is regarded as part of the Neoproterozoic Centralian A Super-Basin. This A Super-Basin includes Georgina, Victoria, Murraba, Wolfe, Ngalia and Officer Basins, and potentially other smaller basins in north-eastern western Australia. The evolution can be described by three phases named Centralian I, II and III. Centralian I is the break-up between Australia and North America at 830 Ma and sedimentation continue until 750 Ma. Sturtian glaciation 700-690 Ma associated sedimentation happened and this phase is Centralian II. Centralian III is related to the sedimentation of Elatina glaciation. This sedimentation was ended by the 580-530 Petermann Orogeny. Musgrave Province is uplifted and exhumated by Petermann Orogeny, which led to the separation of the Officer Basin. The Alice Springs Orogeny 450-300 Ma divided the Super basin, but sedimentation continued until it ended in most areas in mid-Carboniferous (Edgoose, 2013). The basin overlies the basement of Aileron and Warumpi Provinces to the North and Musgrave Province to the South. In the west it is overlain by Palaeozoic Canning Basin and in the Southeast overlain by Eromanga basin (Edgoose, 2013).



2.2 Formation location and lithology



2.2.1 Johnnays Creek Formation

Johnnays Creek Formation, formerly known as Johnnays creek beds, is the upper formation of Better Springs Group, formerly Better springs Formation (Normington, 2018). It is extensive in the central western part of the Amadeus Basin and it is made up of dolomitic limestone, red-beds or dolostone with stromatolitic, siltstone and sometimes sandstone beds (Kositcin et al., 2015). The Areyonga Formation disconformably overlain Johnnays Creek formation and this is characteristically noticeable by rubbly, fractured regolith development (Lindsay, 1993). The thickness of Johnnays Creek Formation varies up to approximately 400m in BR05DD01 and its depositional age is well constrained to a certain degree at approximately 820 Ma (Edgoose, 2013).

2.2.2 Areyonga Formation

The glaciogene to fluvial Areyonga formation mainly made up of diamictite of different texture and composition yet contains interbeds of conglomerate, sandstone, dolostone, siltstone and shale (Edgoose, 2013; Kositcin et al., 2015; Walter et al, 1995). Carbonates and siliciclastic of the Aralka Formation rests conformably on the Areyonga formation, but the Areyonga Formation lies disconformably on Johnnays creek formation. The Areyonga Formation glacial sediments represent 700-690 Ma Sturtian glaciation event based on the correlation of the successions of cap carbonate and the glacial sediments across Australia and globally (Kositcin et al., 2015). The Areyonga formation thickness in both Wallara-1 and BR05DD01 cores are relatively similar. It is approximately 120 m in Wallara-1 (Smith, 2014), while it is 100 m in BR05DD01 (Smith, 2013).

2.2.3 Pioneer Sandstone

The pioneer sandstone is a shallow marine to tidal unit that is confined to the central northern part of the Amadeus Basin. It is coarse to medium grained, arkosic and feldspathic with sedimentary structures often found. Some cross laminations and mainly planar laminations are found in the lower part, while it is dolomitic in the upper part (Kositcin et al., 2015). The Pioneer sandstone formation age is only constrained by its

position stratigraphically and it was recognized that the Pioneer formation correspond to the Olympic Formation. Therefore, the assumption is that are similar in age (Walter et al., 1995). The Olympic formation age is correlated to the Elatina glaciation with lower and upper age limits of ~ 580 Ma and ~640 Ma (Williams et al., 2008; Grey et al., 2011). The Pioneer sandstone formation thickness is approximately 9 m in Wallara-1 core (Smith, 2014), while it is not recognized in BR05DD01 core (Smith, 2013).

2.2.4 Pertatataka Formation

The formation is made up mainly of green and red shale, siltstone and feldspathic sandstone. Two members have been recognized in the northeast of the Amadeus Basin, Waldo Pedlar and Cyclops members; while in the central western part three members have been named, (sandstone, siltstone and shale), (sandstone/quartzite) and (siltstone) as Member III, II and I respectively (Edgoose, 2013). The formation has an inferred depositional age of approximately 580 Ma (Maidment, 2005). Pertatataka formation varies in thickness up to 1400 m (Walter et al., 1995) and it is about 600 m in Wallara-1 core (Smith, 2014) but it is not recognised in BR05DD01 core (Smith, 2013).

2.2.5 Arumbera Sandstone

Arumbera sandstone is divided into two successions of deposition: low-stand systems tract in the early Cambrian and high-stand systems tact in the Neoproterozoic of the upper and lower part respectively. The formation thickness varies significantly. While

the upper succession maximum thickness is 500 m, the lower part is 800 m (Edgoose, 2013). The Arumbera sandstone thickness in Wallara-1 core is approximately less than 100 m (Smith, 2014).

3.0 METHODOLOGY

3.1 U-Pb Geochronology

A Total of ten Siltstone and sandstone samples were collected based on the Cryogenian-Ediacaran formations of the Amadeus Basin. The samples were collected from Wallara-1 core (5 samples), BR05DD01 core (2 samples) and from the Macdonell Ranges (3 samples). The location of Wallara-1, BR05DD01 and Macdonell Ranges is shown in figure 1 above

Grains of zircon were obtained by standard magnetic and heavy liquid techniques after crushing the samples. zircon grains were handpicked and mounted in epoxy resin. The mounts were grinded, polished and carbon coated to remove the charges on the surface for Cathodoluminescence (CL) imaging using Scanning Electron Microscope (SEM) at Adelaide Microscopy. Laser spots were targeted from the images and LA-ICP-MS analysis was made with 30 µm spot size.

The data was processed using Iolite with GEMOC GJ-1 is being used as a reference material and Plesovice Standard to control the accuracy of the zircon age; and Excel add-in Isoplot was used to plot the data (age and REEs) based on formations. Concordia plots and probability density function graphs of the ages were produced. The Concordia plots contain only the grains within 10% discordant. Concordance was calculated by the equation (²⁰⁶Pb/²³⁸U)/ (²⁰⁷Pb/²⁰⁶Pb)*100.

In this paper, the zircon ages chosen for the graphs and plots are following Yang et al., (2018). For ages higher than 1.2Ga, ²⁰⁷Pb/²⁰⁶Pb age was used, while for ages younger than 1 Ga, ²⁰⁶Pb/²³⁸U was used. In case where the ages are in between the more precise one was chosen. For the maximum depositional age, a single grain approach was used.

4.0 BSERVATIONS AND RESULTS

4.1 U-Pb Geocryology

4.1.1 Arumbera Sandstone

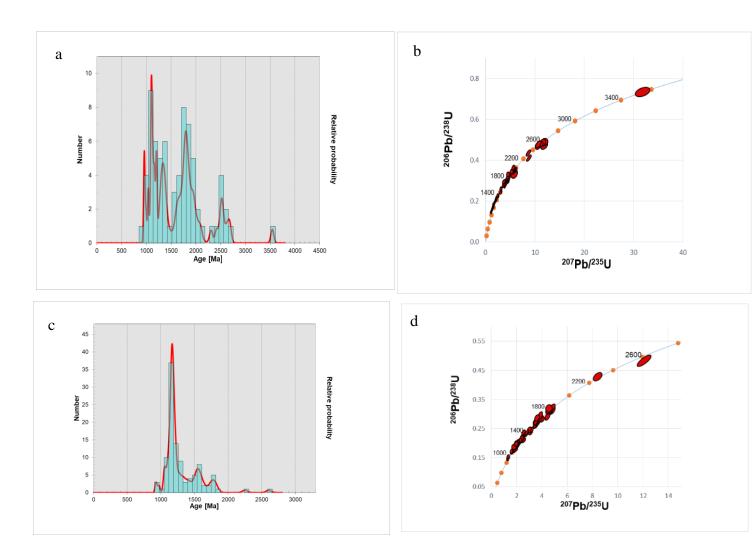


Figure 3 : U-Pb probability density diagrams and Concordia plot for the Arumbera formation. a) U-Pb probability density diagram for concordant zircon grains in Wallara-1 core sample. b) U-Pb Concordia diagram (n=71) for Wallara-1 core sample. c) U-Pb probability density diagram for concordant zircon grains in MacDonnell Ranges sample. d) U-Pb Concordia diagram (n=106) for MacDonnell Ranges sample.

Two samples were analysed from this unit, one from MacDonnell Ranges and the other from Wallara-1 core in Central Australia. Ninety-nine and one hundred and nine analyses were conducted from Wallara-1 and MacDonnell Ranges samples respectively. Seventy-one analyses were below 10% discordance in Wallara-1, while one hundred and six in MacDonnell Ranges sample. The analyses that were above 10% discordance were removed from the graphs and from further interpretation. The ages range is 949 ± 24 Ma to 3543 ± 61 Ma in Wallara-1, whereas it is 922 ± 24 to 2604 ± 73 Ma in MacDonnell Ranges. Three clear population groups of ages in Wallara-1. They are 1070-1300 Ma, 1700-1900 Ma and 2450-1600 Ma groups, with the first group being the most dominant as seen from Figure 2 above. Similarly, three population groups were identified in MacDonnell Ranges sample and they are 1050-1200 Ma, 1350-1600 Ma and 1650-1800 Ma. However, the first group 1050-1200 is by very far the most dominant with more than 65 grains and the other two groups with less than fifteen grains each.

4.1.2 Pertatataka Formation

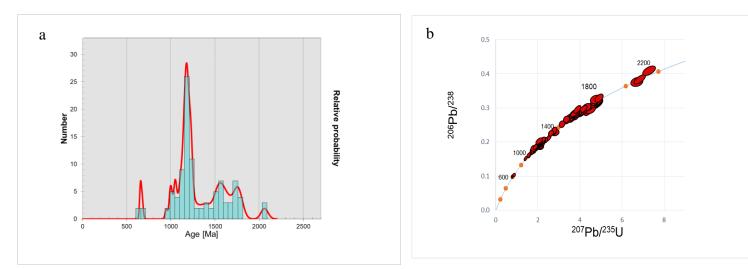


Figure 4 U-Pb probability density diagrams and Concordia plot for the Pertatataka formation. . a) U-Pb probability density diagram for concordant zircon grains in MacDonnell Ranges sample. b) U-Pb Concordia diagram (n=102) for MacDonnell Ranges sample.

One sample was analysed from this formation and that was from MacDonnell Ranges as seen from figure 1. One hundred and nineteen analyses were conducted. One hundred and two analyses were below 10% discordance and hence plotted in Concordia and Probability density function graphs. Seventeen analyses were above 10% discordance and were removed from the graphs and from further interpretation. The ages ranged from 651 ± 19 Ma to 2070 ± 81 Ma, with two clear population groups. One population group is 1000-1300 Ma while the other 1500-1700 Ma. The 1000-1300 group is by far the most dominant group.

4.1.3 Pioneer Sandstone

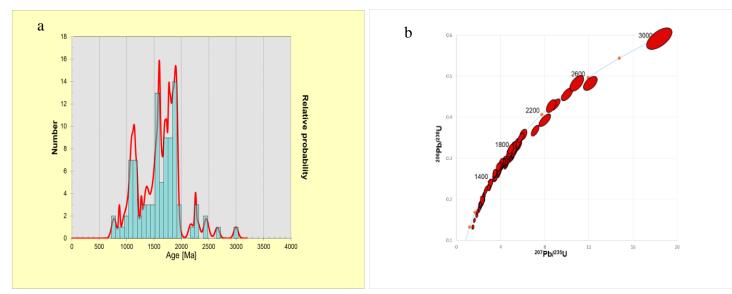


Figure 5: U-Pb probability density diagrams and Concordia plot for the Pioneer sandstone . a) U-Pb probability density diagram for concordant zircon grains in Wallara-1 core sample. b) U-Pb Concordia diagram (n=92) for Wallara-1 core sample.

One sample was analysed from this unit from Wallara-1 core in central Australia. One hundred and twenty-one analyses were conducted. From these analyses, ninety-two were below 10% discordance and twenty-nine were above 10% discordance. The analyses that were above 10% discordance were removed from the graphs and from further interpretations. The ages range is 769 ± 23 Ma and 2996 ± 78 Ma. Three main groups of population were recognized in figure 4. The groups are 1000-1250 Ma, 1500-1600 Ma and 1700-2000 Ma, with the last two groups being the dominant.

4.1.4 Areyonga Formation

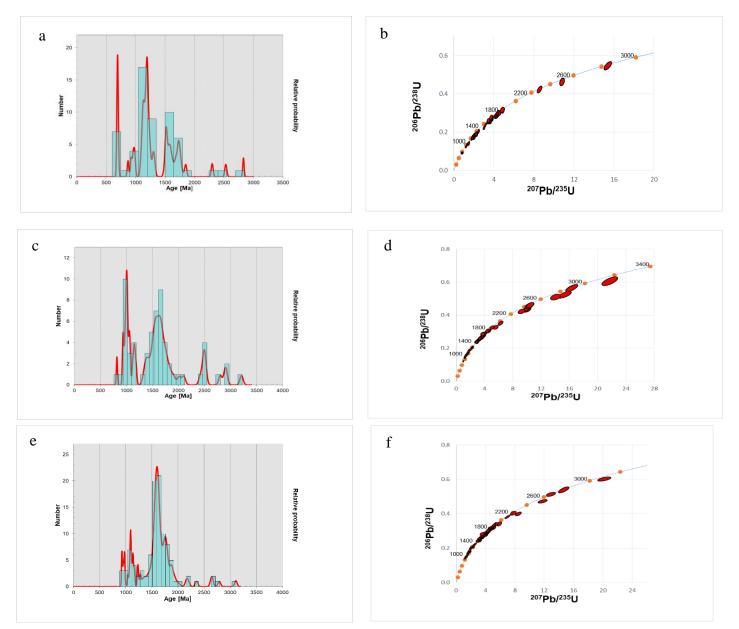


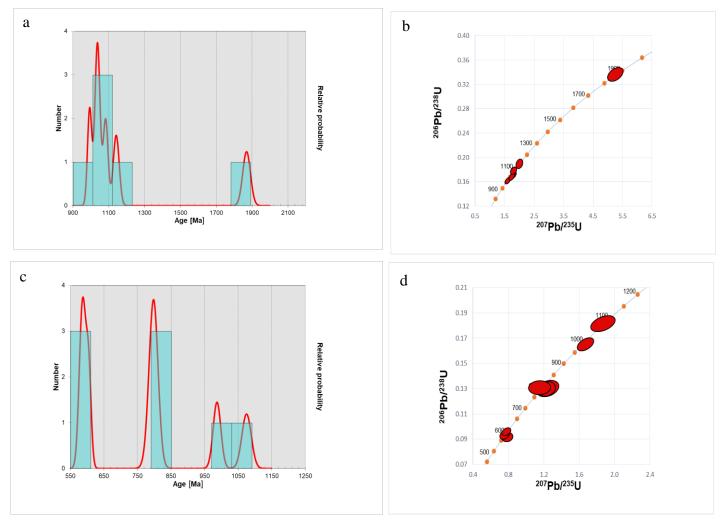
Figure 6 : U-Pb probability density diagrams and Concordia plots for the Areyonga formation. a) U-Pb probability density diagram for concordant zircon grains in BR05DD01 core sample. b) U-Pb Concordia diagram (n=58) for BR05DD01 core sample. c) and d) from Wallara-1 core sample (n=72). e) and f) from MacDonnell Ranges sample (n=103), where n is the number of concordant analyses.

Three samples were analysed from this formation, from BR05DD01 core, Wallara-1 core and MacDonnell Ranges. Sixty-seven analyses were conducted from BR05DD01 core sample. From these analyses, fifty-eight were below 10% discordance and nine

were above 10% discordance. The age's range of BR05DD01 core sample is between 683 ± 20 Ma and 2831 ± 23 Ma. Three population groups were identified. They are 700-800 Ma, 1000-1250 Ma and 1500-1700 Ma. The 1000-1250 Ma group is the most dominant in this sample. They are also a few individual grains scattered around different ages that are not part of the previous groups.

Ninety-nine analyses were conducted from Wallara-1 core. From these analyses, seventy-two were below 10% discordance and twenty-seven above 10% discordance. The range of ages is between 949 ± 24 Ma and 3543 ± 61 Ma. Three population groups can be seen in figure 5. The groups are 1000-1300 Ma, 1550-1900 Ma and 2450-2600 Ma. The population group 1000-1300 Ma is the most dominant and 1550-1900 Ma being the second.

One hundred and twenty analyses were conducted from MacDonnell Ranges sample. One hundred and three from these were below 10% discordance and seventeen were above 10% discordance. The ages ranged from 927 \pm 16 Ma to 3109 \pm 47 Ma. Two population groups were recognized. They are 950-1250 Ma group and 1500-1750 Ma, with the latter group being the most dominant by far.



4.1.5 Johnnys Creek Formation

Figure 7 : U-Pb probability density diagrams and Concordia plot for the Johnnys Creek formation. a) U-Pb probability density diagram for concordant zircon grains in Wallara-1 core sample. b) U-Pb Concordia diagram (n=8) for Wallara-1 core sample. c)) U-Pb probability density diagram for concordant zircon grains in BR05DD01 core sample. d) U-Pb Concordia diagram (n=6) for BR05DD01 core sample.

Two samples were analysed from this formation, from Wallara-1 core and BR05DD01.

Seventeen analyses were conducted from BR05DD01 sample, while only eleven

analyses in Wallara-1 core. The lack of more analyses is due the fact that not a lot of

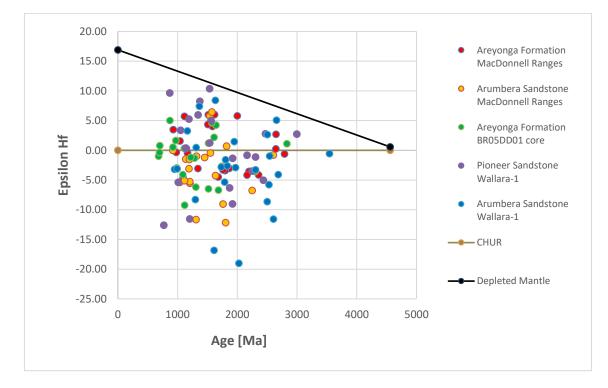
zircon grains were found in these samples. Eight analyses are below 10% discordance in

BR05DD01, while six analyses in Wallara-1 core. The analyses from both samples that

are above 10% discordance were removed from graphs and from further interpretations.

The ages ranged from 582 \pm 17 Ma to 1075 Ma in BR05DD01, while they ranged from

994 \pm 24 Ma to 1869 \pm 43 Ma in Wallara-1 core sample. One group of population is recognised in Wallara-1 core sample and that is 1000-1100 Ma, with only three grains. On the other hand, two groups of population is seen in BR05DD01 core sample which are 600 Ma and 800-850 Ma with three grains each.



4.2 HF and REES Data

Figure 8: Shows the Epsilon Hf values relative to depleted Mantle and CHUR for different formations. All of the zircons concordant and represent different population groups.

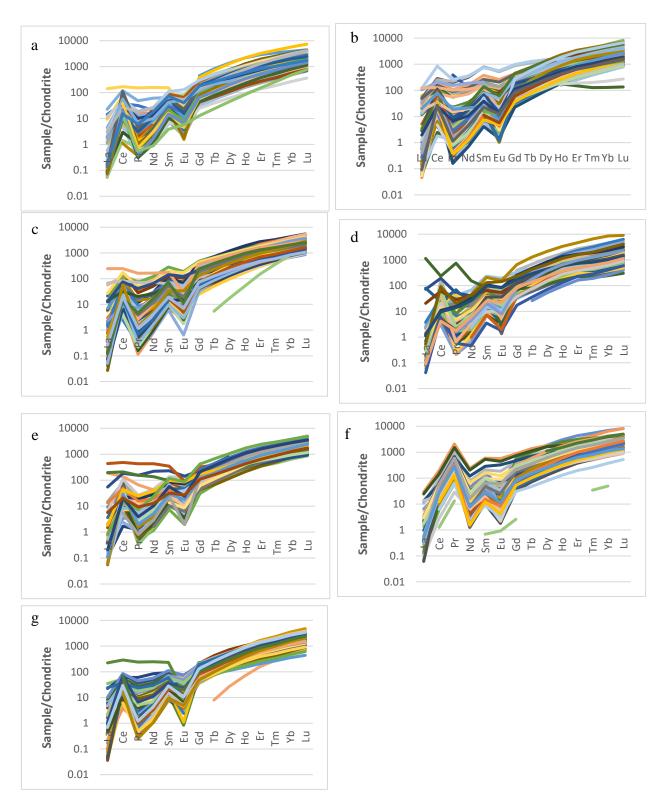


Figure 9: shows the patterns of rare earth elements for the dated zircon grains. This is normalised to CHUR. a) Arumbera sandstone of Wallara-1 sample b) Arumbera sandstone of the MacDonnell Ranges sample d) Pertatataka formation of the MacDonnell Ranges sample e) Areyonga formation, Wallara-1 core sample f) Areyonga formation, BR05DD01 core sample g) Pioneer sandstone, Wallar-1 core sample

5.0 DISCUSSION

5.1 Age constrains of the formations

5.1.1 Arumbera Sandstone

The youngest zircon grain in the sample determines the maximum depositional age. The maximum depositional age of this formation is 922 ±24 Ma as recoded in MacDonnell Ranges sample. This age is by far higher than the maximum depositional age of late Neoproterozoic mentioned previously (Edgoose, 2013). Therefore, this age is not very useful.

5.1.2 Pertatataka Formation

Pertatataka formation was recorded to have a maximum depositional age of 650 ± 13 Ma in other study done by Kositcin et al. (2015) in the north-eastern part of the Amadeus Basin. Similarly, in this study 651 ± 19 Ma maximum deposition age was recorded. This age is also very close from the inferred depositional age of 580 Ma (Maidment, 2005).

5.1.3 Pioneer Sandstone

In this study, the Pioneer sandstone has a maximum depositional age of 769 ± 23 recoded in Wallara-1 core sample. However, it was recorded by Kositcin et al. (2015) study that the formation has a maximum depositional age of 709 ± 15 Ma. This is far from the inferred age of 580-640 Ma (Williams et al., 2008; Grey et al 2011).

5.1.4 Areyonga Formation

It was previously recorded by Kositcin et al. (2015) to have a maximum depositional age of 876 ± 14 Ma and it was suggested to have an age equivalent to the Sturtian glaciation of 690-700 Ma. The maximum depositional age of the Areyonga Formation recoded in this paper is 683 ± 20 Ma. It was recorded in BR05DD01 core sample. This provide a better age constrains to this formation and it coincide with the inferred age suggested earlier.

5.1.5 Johnnys Creek Formation.

The Johnnys Creek formation is thought to have a depositional age of 820 Ma (Edgoose, 2013). However, in BR05DD01 sample of this study, it was recoded to have a very young age of 582 ± 17 Ma. This is a very young age, unreasonable and does not agree with literature and hence was interpreted to be a result of contamination. However, the Wallara-1 recoded a maximum depositional age of 994 ± 24 Ma. This age constrain is better than the one recoded by Kositcin et al. (2015) of 1029 ± 23 Ma.

5.2 Sediments Source

5.2.1 Arumbera Sandstone

Musgrave province to the South of the Amadeus Basin is potentially the main source of sediments for this formation. The main age group of 1050-1300 Ma in both Wallara-1 and MacDonnell samples potential sources can be from 1.22–1.15 Ga Musgrave Orogeny granites and metamorphic rocks or 1.09–1.04 Ga Giles complex and Tjauwata Group in the Musgrave province (Haines, 2016; Close, 2013). In addition to that,

1.15–1.13 Ga granite and metamorphic rocks of the Teapot Event in Warumpi Province can likely be the source. Another age group of 1350-1600 Ma in MacDonnell Ranges sample possible sources are 1345–1293 Ma Wankanki Supersuite granites, c. 1400 Ma Papulankutja Supersuite or c. 1575 Ma Warlawurru Supersuite rocks West Musgrave province. 1590-1560 Ma Chewings Orogeny high grade metamorphic rocks in Warumpi & Aileron Province and 1600 -1540 Ma Musgravian gneiss (Haines, 2016). The age group 1600-1900 Ma in both Arumbera samples potential sources can be 1.61–1.60 Ga granites in the Warumpi province, 1.64–1.63 Ga Metamorphism and magmatism in the Warumpi province due to Liebig Orogeny event or the 1.69–1.66 Ga granite in the Warumpi Province. 1.73–1.69 Ga, 1.78–1.77 Ga or 1.81–1.79 Ga granite of the Strangways, Yamba or Stafford geologic events respectively in the Aileron Province can be possible sources (Haines, 2016). The epsilon Hf values of this formation along different age groups have both negative and positive, values, with the negative values being the dominant. This suggests the host magma is a combination of juvenile and recycled crust magmas, but the recycled crust magma is dominant along the age group.

5.2.2 Pertatataka formation

Musgrave province to the South of the Amadeus Basin is possibly the main source of sediments for this formation. This formation has two age groups 1000-1300 Ma and 1500-1700 Ma. There are a number of possible sources for the 1000-1300 Ma group. Some possible sources include .22–1.15 Ga Musgrave Orogeny granites and metamorphic rocks or 1.09–1.04 Ga Giles complex and Tjauwata Group in the Musgrave province (Haines, 2016; Close, 2013). Other possible sources can be 1.15–1.13 Ga granite and metamorphic rocks of the Teapot Event in Warumpi Province. As for the second age group 1500-1700 Ma, c. 1575 Ma Warlawurru Supersuite rocks West

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Musgrave province, 1590-1560 Ma Chewings Orogeny high grade metamorphic rocks in Warumpi and Aileron Province, 1600 -1540 Ma Musgravian gneiss, 1.61–1.60 Ga granites in the Warumpi province, 1.64–1.63 Ga Metamorphism and magmatism in the Warumpi province or the 1.69–1.66 Ga granite in the Warumpi Province can all be possible sources (Haines, 2016).

5.2.3 Pioneer Sandstone

Pioneer sandstone main source of sediments came possibly from the Arunta region, north the Amadeus Basin. The age groups are 1000-1300 Ma, 1500-1600 Ma and 1700-1950 Ma, with the last two groups being the dominant. Possible sources for the 1000-1300 Ma group include .22–1.15 Ga Musgrave Orogeny granites and metamorphic rocks or 1.09–1.04 Ga Giles complex and Tjauwata Group in the Musgrave province (Haines, 2016; Close, 2013). Other possible sources can be 1.15–1.13 Ga granite and metamorphic rocks of the Teapot Event in Warumpi Province. As for the 1500-1600 Ma group, sources can be from 1590-1560 Ma Chewings Orogeny high grade metamorphic rocks in Warumpi and Aileron Province, c. 1575 Ma Warlawurru Supersuite rocks West Musgrave province and 1600 -1540 Ma Musgravian gneiss (Haines, 2016). The last age group 1700-1950 sediments can be derived from 1.73– 1.69 Ga, 1.78–1.77 Ga or 1.81–1.79 Ga granite of the Strangways, Yamba or Stafford geologic events respectively in the Aileron Province (Haines, 2016). This formation has negative and positive epsilon Hf value and this is indicative of a mix of juvenile and recycled crust host magmas.

5.2.4 Areyonga Formation

Musgrave province to the South of the Amadeus Basin is possibly the main source of sediments for this formation in Both Wallara-1 and BR05DD01 core samples. On the other hand, the sample from MacDonnell Ranges main possible source is the Arunta region. The group age 700-800 Ma in BR05DD01 core possible source is c. 747 Ma Mafic intrusive rocks West Musgrave Province (Haines, 2016). Other age groups 1000-1300 Ma and 1500-1900 Ma can be derived from a number of possible sources. These sources are 1.22-1.15 Ga Musgrave Orogeny granites and metamorphic rocks or 1.09-1.04 Ga Giles complex and Tjauwata Group in the Musgrave province and 1.15–1.13 Ga granite and metamorphic rocks of the Teapot Event in Warumpi Province. (Haines, 2016; Close, 2013). As for the 1500-1600 Ma group, sources can be from 1590-1560 Ma Chewings Orogeny high grade metamorphic rocks in Warumpi and Aileron Province, c. 1575 Ma Warlawurru Supersuite rocks West Musgrave province and 1600 -1540 Ma Musgravian gneiss (Haines, 2016). 1.73–1.69 Ga, 1.78–1.77 Ga or 1.81–1.79 Ga granite of the Strangways, Yamba or Stafford geologic events respectively in the Aileron Province can be possible sources for the age group 1700-1900 Haines 2016). This formation has no clear Epsilon Hf pattern, but rather both positive and negative values all around 1000-1900 Ma ages. This suggest a mixture of juvenile and recycled crust host magmas.

5.2.5 Johnnys Creek Formation

This formation only has eight concordant zircon amylases in BR05DD01 core and six in Wallara-1. As a result, the source sediment source cannot be determined with high confidence level. However, three grains out of six have an age between 100-1100 Ma. A

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possible source for these grains is the 1.09–1.04 Ga Giles complex and Tjauwata Group in the Musgrave province (Haines, 2016)

6.0 CONCLUSIONS

The main conclusions of this research are:

1. This research further constrains the maximum depositional age of Pertatataka

formation and Areyonga formation, with 651 ± 19 Ma and 683 ± 20 Ma respectively.

2. The Main source of sediments for the Arumbera sandstone, Pertatataka

formation and Areyonga formation is the Musgrave Province, while it is the Arunta

region for the Pioneer sandstone.

7.0 ACKNOWLEDGMENTS

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APPENDIX A:

Table 1: U-Pb data for Wallara-1 core sample, Arumbera formation.

Comments			ARU-003																
Final207_235	1.466	0.991	2.043	2.679	11.37	2.198		1.633	11.79	0.97	1.477	1.566	5	1.568	2.024	3.88	12.2		
Final207_235_Prop2SE	0.068	0.05	0.09	0.12	0.45	0.11		0.074	0.5	0.049	0.096	0.069	0.21	0.076	0.087	0.18	0.55		
Final206_238	0.1377	0.0709	0.1913	0.2268	0.4837	0.1896		0.1587	0.4921	0.1071	0.1075	0.0887	0.3155	0.1613	0.1867		0.4952		
Final206_238_Prop2SE					0.012	0.0051		0.0042	0.014					0.0041			0.014		
ErrorCorrelation_6_38vs7_35 Concordance	0.63432	26.3126	0.29676 100.267	0.26054 97.1302	0.40615	0.22151 85.6159		91.6908	98.8876			0.79855		105.125			0.14083		
	/5.0831	20.3120	100.267	1320	2546	1119		91.0908	2578	655.5	655	20.3588	94.5425	964	93.8723	1436	2598		95.173
FinalAge206_238 FinalAge206_238_Prop2SE	23	17	27	30	53	28		24	60	16	48	17	42	23	25	37	60		
FinalAge207_206	1098	1676	1125	1359	2541	1307		1035	2607		1647	2079	1869	917	1175	1841	2658		1098
FinalAge207_206_Prop2SE	85	68	88	85	63	92		92	68	110	79	65	74	110			76		
Final U Th Ratio	1.237	1.596	2.128	1.212	1.832	1.388	1.34	1.511	0.736	1.679	1.623	0.598	2.021	1.255	1.365	0.664	1.866	1.377	4.418
Comments	ARU-020	ARU-021		ARU-023	ARU-024				ARU-028	ARU-029		ARU-031	ARU-032					ARU-037	
Final207_235	3.52	3.565	1.511	2.036	11.01	1.721	10.87	1.353	6.56	2.236	3.429	1.529	3.965	9.01	3.027	2.94	6.02	5.98	4.98
Final207_235_Prop2SE	0.19	0.15	0.069	0.097	0.43	0.072	0.44	0.067	0.3	0.1	0.15	0.063	0.17	0.37	0.15	0.16	0.26	0.24	0.22
Final206_238	0.2569	0.2136	0.145	0.1839	0.4756	0.1602	0.4771	0.1345	0.3209	0.2059		0.146	0.287	0.443	0.2381	0.2412	0.3738		0.3426
Final206_238_Prop2SE	0.0078	0.0063	0.0037	0.0058	0.013	0.0042		0.0052	0.0085	0.0053		0.004	0.0069	0.012	0.0069	0.0065	0.0096		0.0092
ErrorCorrelation_6_38vs7_35	0.43088	0.7586	0.16564	0.4669	0.63348	0.66108		0.78087	0.68781			0.44039		0.72351	0.27973	0.33991	0.43283		0.0997
Concordance	90.2021	64.2452	81.5716	90.1327	99.0514	84.507		79.4721	77.0288	104.961	85.0422	79.6733	101.057	102.384	96.0223	102.053	106.674		109.521
FinalAge206_238	1473	1247	872	1087	2506	960	2512	813	1794	1206	1410	878	1626	2362	1376	1392	2046	1997	1898
FinalAge206_238_Prop2SE	40	33	21	32	55	24	56	30	42	28	39	23	35	52	36	34	45	43	44
FinalAge207_206	1633	1941	1069	1206	2530	1136	2504	1023	2329	1149		1102	1609	2307	1433	1364	1918	1949	1733
FinalAge207_206_Prop2SE Final U Th Ratio	92 0.695	66 2.82	93 1.96	86 1.625	63 1.045	77 3.18	69 0.694	87 2.12	70 2.954	89 1.138	2.709	81 1.985	76 1.285	65 0.88	94 0.868	2.054	73 0.724	70 2.564	82 1.138
Comments	ARU-039							ARU-046		ARU-048		ARU-050					ARU-055	ARU-056	
Final207_235	31.57	2.667	2.109	2.76	6.45	1.741	1.641	1.715	4.347	4.15	2.107	2.883	5.07	2.844		no value	1.687	12.13	2.689
Final207_235_Prop2SE	1.2	0.13	0.09	0.15	0.28	0.082	0.07	0.075	0.18	0.18	0.1	0.12	0.21	0.12		NAN	0.083	0.55	0.12
Final206_238	0.734	0.2303	0.1874	0.1704	0.3633	0.1541	0.1609	0.1624	0.2853	0.2902	0.195	0.2249	0.3282	0.2326		no value	0.1666		0.2208
Final206_238_Prop2SE	0.018	0.0063	0.0046	0.0052	0.0099	0.0049	0.0044	0.005	0.0075	0.0081	0.0059	0.0057	0.0086	0.0066	0.0083		0.0047	0.013	0.0058
ErrorCorrelation_6_38vs7_35 Concordance	0.42821 100.141	0.36468	0.44139 91.715	-0.40726 54.4868	0.44118 95.5024	0.61426	0.22955	0.32942 85.9043	0.50681 90.4362	0.17664 97.5104	0.42662	0.53738 87.9195	0.17285	0.24666 97.0461	-0.12061	#VALUE!	0.23474 96.9727	0.47195 93.5592	0.61025 93.2511
	3548	101.521	91.715	1014	95.5024	923		85.9043 969	90.4362	97.5104	100.349	87.9195	1829	97.0461		#VALUE!	96.9727	2513	93.2511
FinalAge206_238	3548	33	25	29	47	923	961 24	909	38	1045		31	42	1347		NAN	993	2513	31
FinalAge206_238_Prop2SE FinalAge207_206	3543	1315	1207	1861	2090	1237	1055	1128	1788	1687	31 1146	1490	1835	1388		no value	1024	2686	1378
FinalAge207_206_Prop2SE	61	85	80	1001	2030	80	90	88	71	85	93	72	75	1566		NAN	93	2080	70
Final_U_Th_Ratio	2.71	0.4163	1.162	3.23	0.931	1.93	0.519	1.349	2.225	0.71	0.559	1.954	2.612	0.954		no value	3.18	1.317	1.083
Comments Final207 235	ARU-058 3.56	ARU-059 4.95	4.75	4RU-061 6.25	ARU-062 4.17	ARU-063 6.03	ARU-064 4.297	ARU-065 5.2	ARU-066 4.859	ARU-067 2.022	ARU-068 1.821	ARU-069 4.487	ARU-070 2.182	ARU-071 1.169	ARU-072 4.95	ARU-073 4.54	ARU-074	4.99	ARU-076 4.34
Final207_235 Final207_235 Prop2SE	0.19	0.22	4.75	0.25	0.23	0.26	4.297	0.22	4.859	0.11	0.09	4.487	0.12	0.1	0.21	0.19	0.14	0.25	4.34
Final206 238	0.13	0.3087	0.3117	0.25	0.3071	0.3597	0.2965	0.3345	0.3163	0.1867	0.1433	0.2959	0.12	0.1375	0.3259	0.3097	0.1972	0.33	0.3078
Final206 238 Prop2SE	0.0084	0.0085	0.0081	0.0086	0.0085	0.0092	0.0075	0.0086	0.0077	0.0051	0.0054	0.0071	0.0057	0.0053	0.0089	0.0092	0.0083	0.01	0.0089
ErrorCorrelation 6 38vs7 35	0.25214	0.34034	0.39518	0.43276	0.46333	0.24014	0.32258	0.45344	0.22164	0.0013	0.85896	0.3574	0.27115	0.18108	0.11902	0.69493	0.33297		0.49419
Concordance	101.775	92.6243	98.092	97.9763	107.01	101.331	98.5277	100.27	98.1163	94.7595	58.8275	92.9844	97.1596	117.324	100.498	99.5415	113.529	103.204	104.6
FinalAge206_238	1548	1733	1748	1985	1725	1980	1673	1859	1771	1103	863	1670	1163	833	1817	1737	1158	1836	1728
FinalAge206_238_Prop2SE	43	42	40	41	42	44	37	41	38	28	31	36	31	30	43	45	45	48	44
FinalAge207_206	1521	1871	1782	2026	1612	1954	1698	1854	1805	1164	1467	1796	1197	710	1808	1745	1020	1779	1652
FinalAge207_206_Prop2SE	100	79	75	69	99	78	69	73	70	110	73	74	100	180	83	72	150	83	75
Final_U_Th_Ratio	1.805	1.131	1.893	7.82	1.071	0.6647	1.64	4.616	2.35	1.144	2.51	1.397	1.284	0.594	1.492	2.499	1.259	1.455	1.416
Comments	ARU-077	ARU-078	ARU-079	ARU-080	ARU-081	ARU-082	ARU-083	ARU-084	ARU-085	ARU-086	ARU-087	ARU-088	ARU-089	ARU-090	ARU-091	ARU-092	ARU-093	ARU-094	ARU-095
Final207_235	2.59	2.93	2.032	4.519	4.781	10.97	2.587	2.006	5.73	6.18	2.069	2.259	2.553	9.09	2.521	2.384	2.053	2.623	4.83
Final207_235_Prop2SE	0.14	0.21	0.11	0.19	0.19	0.46	0.13	0.091	0.3	0.52	0.1	0.096	0.12	0.38	0.1	0.097	0.11	0.11	0.22
Final206_238	0.2224	0.213	0.1983	0.2961	0.3137	0.4849	0.2212	0.1847	0.3569	0.344	0.191	0.2044	0.2201	0.4195	0.2155	0.2028	0.1879	0.2252	0.3219
Final206_238_Prop2SE	0.0065	0.015	0.0057	0.0084	0.0082	0.013	0.0063	0.0049	0.011	0.017	0.0053	0.0057	0.006	0.012	0.0056	0.0056	0.0067	0.0062	0.0089
ErrorCorrelation_6_38vs7_35	0.18808	0.93146	0.18077	0.48227	0.51568	0.58844	0.35729	0.40208	0.44912	0.30371	0.31081	0.6929	0.43113	0.7938	0.42562	0.40569	0.77767	0.12439	0.47362
Concordance	99.7687	77.1854	109.492	91.5616	98.545	101.799	96.2603	94.1379	103.312	91.7391	95.9114	98.358	99.5342	93.3361	95.9573	89.7436	94.8674	102.028	102.098
FinalAge206_238	1294	1245	1165	1671	1761	2546	1287	1092	1965	1899	1126	1198	1282	2255	1258	1190	1109	1308	1801
FinalAge206_238_Prop2SE	34	81	31	41	41	57	33	27	54	80	29	30	32	56	29	30	36	32	44
FinalAge207_206	1297	1613	1064	1825	1787	2501	1337	1160	1902	2070	1174	1218	1288	2416	1311	1326	1169	1282	1764
FinalAge207_206_Prop2SE	100	75	110	69	70	67	98	85	91	170	100	77	86	62	77	79	83	90	78
Final_U_Th_Ratio	1.134	1.55	0.853	1.704	2.259	3.95	0.877	1.048	0.93	0.433	0.6387	1.49	1.443	1.484	2.346	1.544	5.7	1.086	1.528
Comments	ARU-096																		
Final207_235	0.75																		
Final207_235_Prop2SE	0.04																		
Final206_238	0.063																		
Final206_238_Prop2SE	0.002																		
ErrorCorrelation_6_38vs7_35				-															
Concordance	29.40																		
FinalAge206_238	39	4 179	1 103			50													
FinalAge206_238_Prop2SE	1	4 4	4 2	7 4		48													
FinalAge207_206	134	0 201	9 107	2 16	30 19	71													
FinalAge207_206_Prop2SE	9	0 9	6 9	8 1	70	75													
Final_U_Th_Ratio	1.19	9 1.63	1 1.51	8 0.39		94													

Table 2: U-Pb d	iata I	OF IV	TacL	John	en k	ang	es sa	unpi	e, A	rum	bera	TOLL	latio	п.							
Comments	ARu001	ARu002	ARu003	ARu004	ARu005	ARu006	ARu007	ARu008	ARu009	ARu010	ARu011	ARu012	ARu013	ARu014	ARu015	ARu016	ARu017	ARu018	ARu019	ARu020	ARu021
Final207_235	2.059	2.104	2.62	3.371	2.175	1.547	2.162	3.318	8.44	3.27	2.153	2.08	2.107	2.145	2.317	3.65	3.177	2.135	2.957	1.834	4.576
Final207_235_Prop2SE	0.11	0.08	0.11	0.11	0.086	0.087	0.076	0.12	0.28	0.14	0.11	0.15	0.088	0.078	0.08	0.15	0.13	0.085	0.11	0.074	0.16
Final206_238	0.194	0.1929	0.2246	0.2528	0.2016	0.1576	0.1997	0.2518	0.4298	0.2452	0.1959	0.1882	0.1969	0.1994	0.2035	0.2667	0.2521	0.1979	0.2383	0.1785	0.2964
Final206_238_Prop2SE	0.007	0.0059	0.0067	0.0076	0.0062	0.0052	0.0063	0.0077	0.012	0.0081	0.0071	0.0068	0.0058	0.0058	0.0056	0.008	0.0078	0.0062	0.0076	0.0052	0.01
ErrorCorrelation_6_38vs7_35	0.2787	0.477	0.1565	0.6366	0.1498	0.4171	0.2827	0.314	0.4953	0.4578	0.2142	0.1033	0.2467	0.2146	0.5246	0.477	0.4461	0.3538	0.7	0.2117	0.5423
Concordance	105.42	100.26	100	94.408	103.95	98.332	101.73	94.343	102.44	92.052	99.741	99.196	100.78	102.27	94.537	96.149	99.656	100.95	96.972	102.42	91.767
FinalAge206_238	1147	1136	1309	1452	1184	943	1173	1451	2305	1413	1156	1111	1158	1172	1194	1523	1448	1166	1377	1058	1672
FinalAge206_238_Prop2SE	36	32	37	39	33	29	34	39	52	42	37	37	31	31	30	41	40	34	40	29	51
FinalAge207_206	1088	1133	1309	1538	1139	959	1153	1538	2250	1535	1159	1120	1149	1146	1263	1584	1453	1155	1420	1033	1822
FinalAge207_206_Prop2SE	120	95	100	85	100	130	94	85	77	93	110	160	99	91	85	93	97	98		100	84
Approx_Pb_PPM	594	784	793	2157	522	186.6	622	794	4165	353	409	393	684	662	1632	684	181.8	862	768	416	1074
Approx_Pb_PPM_Int2SE	30	23	30	98	15	9.2	18	41	69	16	13	17	37	17	38	29	8.1	18	50	15	60
Final_U_Th_Ratio	0.89	1.613	0.76	1.466	1.383	1.681	1.602	0.937	1.12	1.979	0.69	0.761	0.982	1.827	1.187	1.013	3.697		2.47	1.824	1.999
Final_U_Th_Ratio_Int2SE	0.018	0.03	0.012	0.069	0.016	0.027	0.032	0.013	0.014	0.04	0.012	0.014	0.067	0.027	0.016	0.028	0.069	0.0091	0.14	0.025	0.047
Final238_206	5.1546	5.184	4.4524	3.9557	4.9603	6.3452	5.0075	3.9714	2.3267	4.0783	5.1046	5.3135	5.0787	5.015	4.914	3.7495	3.9667	5.0531		5.6022	3.3738
Final238_206_Prop2SE	0.186	0.1586	0.1328	0.1189	0.1525	0.2094	0.158	0.1214	0.065	0.1347	0.185	0.192	0.1496	0.1459	0.1352	0.1125	0.1227	0.1583	0.1338	0.1632	0.1138
Final207_206	0.0749	0.0779	0.0855	0.0955	0.0781	0.0711	0.0785	0.0951	0.1417	0.0956	0.0783	0.0783	0.0782	0.0773	0.0827	0.0982	0.0915	0.0782	0.09	0.0737	0.1116
Final207_206_Prop2SE	0.0044	0.0037	0.0045	0.0042	0.0039	0.0041	0.0037	0.0045	0.0061	0.0048	0.0046	0.006	0.0039	0.0037	0.0036	0.0051	0.0045	0.0039		0.0038	0.005
ErrorCorrelation_38_6vs7_6	0.2629	0.1089	0.2853	0.3684	0.3983	0.1291	0.3828	0.3832	0.2347	0.247	0.2526	0.3362	0.2643	0.3786	0.0449	-0.1242	0.298	0.2907	-0.0823	0.2874	0.5113
Approx_U_PPM	131.5	291.4	116.8	599	161.7	84.3	218.1	129.7	487	124	60.5	67.65	139.9	250.5	382.3	108.4	111.5	115.6	372.1	163.3	308
Approx_Th_PPM	148.8	180.8	155.4	420	117.8	50.39	135.5	138.2	437.4	62.5	87.7	87.7	146	136.7	321.5	108.4	29.93	174	150	89.4	155
Th\U	1.1316	0.6205	1.3305	0.7012	0.7285	0.5977	0.6213	1.0655	0.8982	0.504	1.4496	1.2964	1.0436	0.5457	0.841	1	0.2684	1.5052	0.4031	0.5475	0.5032
1 Comments	ARu08	5 ARu086	ARu08	ARu088	ARu089	ARu090	ARu091	ARu092	ARu093	ARu094	ARu095	ARu096	ARu097	ARu098	ARu099	ARu100	ARu101	ARu102	ARu103	ARu104	ARu105
2 Final207 235	2.16										2.11		2.05	2.01	3.648	2.71	1.961			2.459	3.646
3 Final207 235 Prop2SE	0.07												0.13	0.15	0.12	0.16	0.075			0.11	0.14
4 Final206 238	0.200														0.2786	0.2177	0.188			0.2166	
5 Final206_238_Prop2SE	0.005	7 0.009	1 0.008	4 0.00	5 0.0061	0.009	1 0.01	0.006	8 0.0071	0.0061	0.006	0.0065	0.0078	0.0073	0.008	0.0074	0.0057	0.0077	0.0056	0.0073	0.0086
6 ErrorCorrelation_6_38vs7_35			5 0.178	2 0.705	5 0.3371	0.5734	4 -0.0157	0.499	0.6369	0.2941	0.308	0.5092	0.1339	0.1529	0.6187	0.4641	0.1603	0.293	0.2733	0.3226	0.4731
7 Concordance	101.		7 102.4	4 101.6	95.271	102.1	2 95	101.3	3 108.6	104.9	101.4	102.78	103.06		102.39	92.041	100.73	113.94		99.292	97.775
8 FinalAge206 238	117													1152	1584	1272	1110			1263	1538
9 FinalAge206_238_Prop2SE	2	9 4	5 4	3 33	2 33	4	5 56	3	7 37	33	32	35	42	39	40	40	31	41	30	39	42
10 FinalAge207_206	115	7 150	5 154	4 118	B 1290	174	3 1300	112	5 1291	1142	1142	1186	1110	1070	1547	1382	1102	990	1013	1272	1573
11 FinalAge207_206_Prop2SE	8	6 93	5 94	4 8	7 90	8	200	110	110	100	100	100	150	160	81	110	100	160	110	100	88
12 Approx_Pb_PPM	163	2 40	5 51	3 784	4 1061	75	9 178.3	61	3 1132	768	544	581	135.8	494	2129	715	279.6	245	96.4	313	856
13 Approx_Pb_PPM_Int2SE	4	9 14	4 1	8 2	3 36	2	5 8.7	2	2 34	32	29	16	6.5	20	55	41	9.6	13		14	26
14 Final_U_Th_Ratio	0.96	5 1.58	5 1.16	4 2.33	4 1.101	2.04	4 0.545	1.27	4 0.5134	1.008	0.998	1.327	1.209	0.2871	1.859	0.814	3.317	0.473	3.99	2.25	1.292
15 Final_U_Th_Ratio_Int2SE	0.01							0.02			0.023		0.021	0.0062	0.029	0.025	0.048			0.055	0.015
16 Final238_206	4.992							5.16			5.0787		5.1387	5.1073	3.5894	4.5935	5.3191			4.6168	3.7216
17 Final238_206_Prop2SE	0.142			-				0.181		0.1469	0.1548	-	0.206	0.1904	0.1031	0.1561	0.1613	-	0.17	0.1556	0.1191
18 Final207_206	0.078										0.0787		0.0762	0.0743	0.0962	0.0903	0.0765			0.0833	0.0978
19 Final207_206_Prop2SE	0.003										0.0041			0.006	0.0041	0.0059	0.0038			0.0044	
20 ErrorCorrelation_38_6vs7_6		-									0.2481		0.3317	0.2038	0.3842	-0.1501	0.4217			0.3629	
21 Approx_U_PPM	326.						3 19.88				114.5	151	31.6	28.23	605	104.2	195.9			131.9	167.7
22 Approx_Th_PPM	337.			-								113		99.8	327.9	131.4	58.93			58.5	129.3
23 Th\U	1.033						1						0.8269	3.5352	0.542	1.261	0.3008	2.1624	0.2471	0.4435	0.771
		ARu065	ARu066	ARu067	ARu068	ARu069	ARu070	ARu071	ARu072	AD.072	A D 0 74										
Final207_235	2.266	2 007				1. A.				ARu073	ARu074	ARu075	ARu076	ARu077	ARu078	ARu079	ARu080		ARu082	ARu083	ARu084
Final207_235_Prop2SE		2.087	2.629	2.123	3.697	2.415	1.558	2.146	1.88	2.117	1.78	2.988	2.044	1.803	2.192	2.113	1.508	2.156	ARu082 2.017	3.829	2.069
Final206_238	0.091	0.11	0.12	0.087	3.697 0.13	0.096	0.075	0.092	1.88 0.079	2.117 0.069	1.78 0.069	2.988 0.11	2.044 0.089	1.803 0.079	2.192 0.091	2.113 0.091	1.508	2.156 0.091	ARu082 2.017 0.079	3.829 0.14	2.069
Einal206 229 Dron26E	0.091	0.11 0.1908	0.12	0.087	3.697 0.13 0.282	0.096 0.2148	0.075	0.092	1.88 0.079 0.1851	2.117 0.069 0.199	1.78 0.069 0.1785	2.988 0.11 0.244	2.044 0.089 0.1935	1.803 0.079 0.1775	2.192 0.091 0.2015	2.113 0.091 0.1971	1.508 0.061 0.1537	2.156 0.091 0.1971	ARu082 2.017 0.079 0.1941	3.829 0.14 0.2867	2.069 0.11 0.2015
Final206_238_Prop2SE	0.091 0.2081 0.0064	0.11 0.1908 0.0067	0.12 0.2255 0.0072	0.087 0.1961 0.0058	3.697 0.13 0.282 0.0082	0.096 0.2148 0.0066	0.075 0.1633 0.005	0.092 0.189 0.0059	1.88 0.079 0.1851 0.0059	2.117 0.069 0.199 0.0055	1.78 0.069 0.1785 0.0052	2.988 0.11 0.244 0.0071	2.044 0.089 0.1935 0.0067	1.803 0.079 0.1775 0.0057	2.192 0.091 0.2015 0.0059	2.113 0.091 0.1971 0.0059	1.508 0.061 0.1537 0.0044	2.156 0.091 0.1971 0.0063	ARu082 2.017 0.079 0.1941 0.0056	3.829 0.14 0.2867 0.0086	2.069 0.11 0.2015 0.0063
ErrorCorrelation_6_38vs7_35	0.091 0.2081 0.0064 0.4157	0.11 0.1908 0.0067 -0.1079	0.12 0.2255 0.0072 0.1392	0.087 0.1961 0.0058 0.2513	3.697 0.13 0.282 0.0082 0.3894	0.096 0.2148 0.0066 0.629	0.075 0.1633 0.005 0.3007	0.092 0.189 0.0059 0.2086	1.88 0.079 0.1851 0.0059 0.2578	2.117 0.069 0.199 0.0055 0.5715	1.78 0.069 0.1785 0.0052 0.1616	2.988 0.11 0.244 0.0071 0.7481	2.044 0.089 0.1935 0.0067 0.2339	1.803 0.079 0.1775 0.0057 0.3018	2.192 0.091 0.2015 0.0059 0.1939	2.113 0.091 0.1971 0.0059 0.2765	1.508 0.061 0.1537 0.0044 0.1124	2.156 0.091 0.1971 0.0063 0.2762	ARu082 2.017 0.079 0.1941 0.0056 0.0463	3.829 0.14 0.2867 0.0086 0.5632	2.069 0.11 0.2015 0.0063 0.0299
ErrorCorrelation_6_38vs7_35 Concordance	0.091 0.2081 0.0064 0.4157 104.27	0.11 0.1908 0.0067 -0.1079 93.75	0.12 0.2255 0.0072 0.1392 99.544	0.087 0.1961 0.0058 0.2513 98.046	3.697 0.13 0.282 0.0082 0.3894 103.48	0.096 0.2148 0.0066 0.629 98.507	0.075 0.1633 0.005 0.3007 107.5	0.092 0.189 0.0059 0.2086 91.028	1.88 0.079 0.1851 0.0059 0.2578 103.8	2.117 0.069 0.199 0.0055 0.5715 101.65	1.78 0.069 0.1785 0.0052 0.1616 103.42	2.988 0.11 0.244 0.0071 0.7481 99.858	2.044 0.089 0.1935 0.0067 0.2339 99.65	1.803 0.079 0.1775 0.0057 0.3018 100.1	2.192 0.091 0.2015 0.0059 0.1939 101.55	2.113 0.091 0.1971 0.0059 0.2765 100.35	1.508 0.061 0.1537 0.0044 0.1124 98.294	2.156 0.091 0.1971 0.0063 0.2762 95.47	ARu082 2.017 0.079 0.1941 0.0056 0.0463 105.44	3.829 0.14 0.2867 0.0086 0.5632 102.46	2.069 0.11 0.2015 0.0063 0.0299 114.6
ErrorCorrelation_6_38vs7_35 Concordance FinalAge206_238	0.091 0.2081 0.0064 0.4157 104.27 1221	0.11 0.1908 0.0067 -0.1079 93.75 1125	0.12 0.2255 0.0072 0.1392 99.544 1310	0.087 0.1961 0.0058 0.2513 98.046 1154	3.697 0.13 0.282 0.0082 0.3894 103.48 1604	0.096 0.2148 0.0066 0.629 98.507 1254	0.075 0.1633 0.005 0.3007 107.5 975	0.092 0.189 0.0059 0.2086 91.028 1116	1.88 0.079 0.1851 0.0059 0.2578 103.8 1094	2.117 0.069 0.199 0.0055 0.5715 101.65 1170	1.78 0.069 0.1785 0.0052 0.1616 103.42 1058	2.988 0.11 0.244 0.0071 0.7481 99.858 1407	2.044 0.089 0.1935 0.0067 0.2339 99.65 1139	1.803 0.079 0.1775 0.0057 0.3018 100.1 1053	2.192 0.091 0.2015 0.0059 0.1939 101.55 1183	2.113 0.091 0.1971 0.0059 0.2765 100.35 1159	1.508 0.061 0.1537 0.0044 0.1124 98.294 922	2.156 0.091 0.1971 0.0063 0.2762 95.47 1159	ARu082 2.017 0.079 0.1941 0.0056 0.0463 105.44 1143	3.829 0.14 0.2867 0.0086 0.5632 102.46 1624	2.069 0.11 0.2015 0.0063 0.0299 114.6 1185
ErrorCorrelation_6_38vs7_35 Concordance FinalAge206_238 FinalAge206_238_Prop2SE	0.091 0.2081 0.0064 0.4157 104.27 1221 33	0.11 0.1908 0.0067 -0.1079 93.75 1125 36	0.12 0.2255 0.0072 0.1392 99.544 1310 38	0.087 0.1961 0.0058 0.2513 98.046 1154 32	3.697 0.13 0.282 0.0082 0.3894 103.48 1604 40	0.096 0.2148 0.0066 0.629 98.507 1254 35	0.075 0.1633 0.005 0.3007 107.5 975 28	0.092 0.189 0.0059 0.2086 91.028 1116 32	1.88 0.079 0.1851 0.0059 0.2578 103.8 1094 32	2.117 0.069 0.199 0.0055 0.5715 101.65 1170 29	1.78 0.069 0.1785 0.0052 0.1616 103.42 1058 29	2.988 0.11 0.244 0.0071 0.7481 99.858 1407 37	2.044 0.089 0.1935 0.0067 0.2339 99.65 1139 36	1.803 0.079 0.1775 0.0057 0.3018 100.1 1053 31	2.192 0.091 0.2015 0.0059 0.1939 101.55 1183 32	2.113 0.091 0.1971 0.0059 0.2765 100.35 1159 32	1.508 0.061 0.1537 0.0044 0.1124 98.294 922 24	2.156 0.091 0.1971 0.0063 0.2762 95.47 1159 34	ARu082 2.017 0.079 0.1941 0.0056 0.0463 105.44 1143 30	3.829 0.14 0.2867 0.0086 0.5632 102.46 1624 43	2.069 0.11 0.2015 0.0063 0.0299 114.6 1185 35
ErrorCorrelation_6_38vs7_35 Concordance FinalAge206_238 FinalAge206_238_Prop2SE FinalAge207_206	0.091 0.2081 0.0064 0.4157 104.27 1221 33 1171	0.11 0.1908 0.0067 -0.1079 93.75 1125 36 1200	0.12 0.2255 0.0072 0.1392 99.544 1310 38 1316	0.087 0.1961 0.0058 0.2513 98.046 1154 32 1177	3.697 0.13 0.282 0.0082 0.3894 103.48 1604 40 1550	0.096 0.2148 0.0066 0.629 98.507 1254 35 1273	0.075 0.1633 0.005 0.3007 107.5 975 28 907	0.092 0.189 0.0059 0.2086 91.028 1116 32 1226	1.88 0.079 0.1851 0.0059 0.2578 103.8 1094 32 1054	2.117 0.069 0.199 0.0055 0.5715 101.65 1170 29 1151	1.78 0.069 0.1785 0.0052 0.1616 103.42 1058 29 1023	2.988 0.11 0.244 0.0071 0.7481 99.858 1407 37 1409	2.044 0.089 0.1935 0.0067 0.2339 99.65 1139 36 1143	1.803 0.079 0.1775 0.0057 0.3018 100.1 1053 31 1052	2.192 0.091 0.2015 0.0059 0.1939 101.55 1183 32 1165	2.113 0.091 0.1971 0.0059 0.2765 100.35 1159 32 1155	1.508 0.061 0.1537 0.0044 0.1124 98.294 922 24 938	2.156 0.091 0.1971 0.0063 0.2762 95.47 1159 34 1214	ARu082 2.017 0.079 0.1941 0.0056 0.0463 105.44 1143 30 1084	3.829 0.14 0.2867 0.0086 0.5632 102.46 1624 43 1585	2.069 0.11 0.2015 0.0063 0.0299 114.6 1185 35 1034
ErrorCorrelation_6_38vs7_35 Concordance FinalAge206_238 FinalAge206_238 Prop25E FinalAge207_206 FinalAge207_206_Prop25E	0.091 0.2081 0.0064 0.4157 104.27 1221 33 1171 95	0.11 0.1908 0.0067 -0.1079 93.75 1125 36 1200 140	0.12 0.2255 0.0072 99.544 1310 38 1316 110	0.087 0.1961 0.0058 0.2513 98.046 1154 32 1177 95	3.697 0.13 0.282 0.0082 0.3894 103.48 1604 40 1550 85	0.096 0.2148 0.0066 0.629 98.507 1254 35 1273 92	0.075 0.1633 0.005 0.3007 107.5 975 28 907 120	0.092 0.189 0.0059 0.2086 91.028 1116 32 1226 100	1.88 0.079 0.1851 0.0059 0.2578 103.8 1094 32 1054 110	2.117 0.069 0.199 0.0055 0.5715 101.65 1170 29 1151 84	1.78 0.069 0.1785 0.0052 0.1616 103.42 1058 29 1023 97	2.988 0.11 0.244 0.0071 0.7481 99.858 1407 37 1409 84	2.044 0.089 0.1935 0.0067 0.2339 99.65 1139 36 1143 110	1.803 0.079 0.1775 0.0057 0.3018 100.1 1053 31 1052 100	2.192 0.091 0.2015 0.0059 0.1939 101.55 1183 32 1165 100	2.113 0.091 0.1971 0.0059 0.2765 100.35 1159 32 1155 110	1.508 0.061 0.1537 0.0044 0.1124 98.294 922 24 938 100	2.156 0.091 0.1971 0.0063 0.2762 95.47 1159 34 1214 1214	ARu082 2.017 0.079 0.1941 0.0056 0.0463 105.44 1143 30 1084 1084	3.829 0.14 0.2867 0.0086 0.5632 102.46 1624 43 1585 88	2.069 0.11 0.2015 0.0063 0.0299 114.6 1185 35 1034 1034
ErrorCorrelation_6_38vs7_35 Concordance FinalAge206_238 FinalAge206_238 Prop2SE FinalAge207_206 FinalAge207_206 Prop2SE Approx_Pb_PPM	0.091 0.2081 0.0064 0.4157 104.27 1221 33 1171 95 580	0.11 0.1908 0.0067 -0.1079 93.75 1125 36 1200 140 387	0.12 0.2255 0.0072 0.1392 99.544 1310 38 1316 110 274	0.087 0.1961 0.0058 0.2513 98.046 1154 32 1177 95 584	3.697 0.13 0.282 0.0082 0.3894 103.48 1604 40 1550 85 2540	0.096 0.2148 0.0066 0.629 98.507 1254 35 1273 92 92 944	0.075 0.1633 0.005 0.3007 107.5 975 28 907 120 334	0.092 0.189 0.0059 0.2086 91.028 1116 32 1226 100 670	1.88 0.079 0.1851 0.0059 0.2578 103.8 1094 32 1054 110 422	2.117 0.069 0.199 0.0055 0.5715 101.65 1170 29 1151 84 587	1.78 0.069 0.1785 0.0052 0.1616 103.42 1058 29 1023 97 576	2.988 0.11 0.244 0.0071 0.7481 99.858 1407 37 1409 84 2268	2.044 0.089 0.1935 0.0067 0.2339 99.65 1139 36 1143 110 407	1.803 0.079 0.1775 0.0057 0.3018 100.1 1053 31 1052 100 284	2.192 0.091 0.2015 0.0059 0.1939 101.55 1183 32 1165 100 164	2.113 0.091 0.1971 0.0059 0.2765 100.35 1159 32 1155 110 899	1.508 0.061 0.1537 0.0044 98.294 922 24 938 100 373	2.156 0.091 0.1971 0.0063 0.2762 95.47 1159 34 1214 1214 110 359	ARu082 2.017 0.079 0.1941 0.0056 0.0463 105.44 1143 30 1084 1004	3.829 0.14 0.2867 0.0086 0.5632 102.46 1624 43 1585 88 549	2.069 0.11 0.2015 0.0063 0.0299 114.6 1185 35 1034 120 182
ErrorCorrelation_6_38vs7_35 Concordance FinalAge206_238 FinalAge206_238 Prop2SE FinalAge207_206 FinalAge207_206 Prop2SE Approx_Pb_PPM Approx_Pb_PPM_Int2SE	0.091 0.2081 0.0064 0.4157 104.27 1221 33 1171 95 580 14	0.11 0.1908 0.0067 -0.1079 93.75 1125 36 1200 140 387 21	0.12 0.2255 0.0072 99.544 1310 38 1316 110 274 12	0.087 0.1961 0.0058 0.2513 98.046 1154 32 1177 95 584 19	3.697 0.13 0.282 0.0082 0.3894 103.48 1604 40 1550 85 2540 150	0.096 0.2148 0.0066 0.629 98.507 1254 35 1273 92 944 53	0.075 0.1633 0.005 0.3007 107.5 975 28 907 120 334 12	0.092 0.189 0.0059 0.2086 91.028 1116 32 1226 100 670 19	1.88 0.079 0.1851 0.059 0.2578 103.8 1094 32 1054 110 422 17	2.117 0.069 0.199 0.0555 0.5715 101.65 1170 29 1151 84 587 17	1.78 0.069 0.1785 0.0052 0.1616 103.42 1058 29 1023 97 576 47	2.988 0.11 0.244 0.0071 0.7481 99.858 1407 37 1409 84 2268 62	2.044 0.089 0.1935 0.0067 0.2339 99.65 1139 36 1143 110 407 14	1.803 0.079 0.1775 0.0057 0.3018 100.1 1053 31 1052 100 284 17	2.192 0.091 0.2015 0.0059 0.1939 101.55 1183 32 1165 100 164 11	2.113 0.091 0.1971 0.0059 0.2765 100.35 1159 32 1155 110 899 25	1.508 0.061 0.1537 0.0044 98.294 98294 922 24 938 100 373 13	2.156 0.091 0.1971 0.0063 0.2762 95.47 1159 34 1214 110 359 11	ARu082 2.017 0.079 0.1941 0.0056 0.0463 105.44 1143 30 1084 1008 1084 1000	3.829 0.14 0.2867 0.0086 0.5632 102.46 1624 43 1585 88 549 16	2.069 0.11 0.2015 0.0063 0.0299 114.6 1185 355 1034 120 182 9.1
ErrorCorrelation_6_38vs7_35 Concordance FinalAge206_238 FinalAge206_238 FinalAge207_206 FinalAge207_206 FinalAge207_206 Prop25E Approx_Pb_PPM Approx_Pb_PPM_Int25E Final_U_Tb_Ratio	0.091 0.2081 0.0064 0.4157 104.27 1221 33 1171 95 580 14 1.1	0.11 0.1908 0.0067 -0.1079 93.75 1125 36 1200 140 387 21 0.557	0.12 0.2255 0.0072 99.544 1310 38 1316 110 274 12 1.172	0.087 0.1961 0.0058 0.2513 98.046 1154 32 1177 95 584 19 1.301	3.697 0.13 0.282 0.0082 0.3894 103.48 1604 40 1550 85 2540 150 0.674	0.096 0.2148 0.0066 0.629 98.507 1254 35 1273 92 944 53 0.873	0.075 0.1633 0.005 0.3007 107.5 975 28 907 120 334 12 1.365	0.092 0.189 0.0059 0.2086 91.028 1116 32 1226 100 670 19 0.7415	1.88 0.079 0.1851 0.0059 0.2578 103.8 1094 32 1054 110 422 17 1.804	2.117 0.069 0.199 0.0055 0.5715 101.65 1170 29 1151 84 587 17 5.087	1.78 0.069 0.1785 0.0052 0.1616 103.42 1058 29 1023 97 576 47 1.013	2.988 0.11 0.244 0.0071 0.7481 99.858 1407 37 1409 84 2268 62 0.821	2.044 0.089 0.1935 0.0067 0.2339 99.65 1139 36 1143 110 407 14 0.829	1.803 0.079 0.1775 0.0057 0.3018 100.1 1053 31 1052 100 284 17 2.19	2.192 0.091 0.2015 0.0059 0.1939 101.55 1183 32 1165 100 164 11 5.24	2.113 0.091 0.1971 0.0059 0.2765 100.35 1159 32 1155 110 899 25 0.75	1.508 0.061 0.1537 0.0044 98.294 922 24 938 100 373 13 2.111	2.156 0.091 0.1971 0.0063 0.2762 95.47 1159 34 1214 1100 359 111 0.991	ARu082 2.017 0.079 0.1941 0.0056 0.0463 105.44 1143 30 1084 100 1084 100 0.046 0.0704	3.829 0.14 0.2867 0.0086 0.5632 102.46 1624 43 1585 88 549 16 1.358	2.069 0.11 0.2015 0.0063 0.0299 114.6 1185 355 1034 120 182 9.1 1.653
ErrorCorrelation 6_38vs7_35 Concordance FinalAge206_238 FinalAge207_206 FinalAge207_206 FinalAge207_206 Promark 206 Promark 206 Promark 206 FinalAge207_206 Promark 206 FinalAge207_206 FinalA	0.091 0.2081 0.0064 0.4157 104.27 1221 33 1171 95 580 14 1.1 0.013	0.11 0.1908 0.0067 -0.1079 93.75 1125 36 1200 140 387 21 0.557 0.011	0.12 0.2255 0.0072 99.544 1310 38 1316 110 274 12 1.172 0.036	0.087 0.1961 0.0058 0.2513 98.046 1154 32 1177 95 584 19 1.301 0.019	3.697 0.13 0.282 0.0082 0.3894 103.48 1604 40 1550 85 2540 1550 0.674 0.012	0.096 0.2148 0.0066 0.629 98.507 1254 35 1273 92 944 53 0.873 0.022	0.075 0.1633 0.005 0.3007 107.5 975 28 907 120 334 120 334 1.365 0.021	0.092 0.189 0.2086 91.028 1116 32 1226 100 670 19 0.7415 0.0093	1.88 0.079 0.1851 0.059 0.2578 103.8 1094 32 1054 110 422 17 1.804 0.025	2.117 0.069 0.199 0.0055 0.5715 101.65 1170 29 1151 84 587 17 5.087 0.075	1.78 0.069 0.1785 0.0052 0.1616 103.42 1058 29 1023 97 576 47 1.013 0.034	2.988 0.11 0.244 0.0071 0.7481 99.858 1407 37 1409 84 2268 62 0.821 0.012	2.044 0.089 0.1935 0.0067 0.2339 99.65 1139 36 1143 110 407 14 0.829 0.015	1.803 0.079 0.1775 0.0057 0.3018 100.1 1053 31 1052 100 284 17 2.19 0.036	2.192 0.091 0.2015 0.0059 0.1939 101.55 1183 32 1165 100 164 11 5.24 0.38	2.113 0.091 0.1971 0.0059 0.2765 100.35 1159 32 1155 110 899 25 0.75 0.01	1.508 0.061 0.1537 0.0044 98.294 922 24 938 100 373 13 2.111 0.032	2.156 0.091 0.1971 0.0063 0.2762 95.47 1159 34 1214 110 359 11 0.991 0.013	ARu082 2.017 0.079 0.1941 0.0056 0.0463 105.44 1143 300 1084 1000 1046 600 0.704 0.012	3.829 0.14 0.2867 0.0086 0.5632 102.46 1624 43 1585 88 549 16 1.358 0.021	2.069 0.11 0.2015 0.0063 0.0299 114.6 1185 355 1034 120 182 9.1 1.653 0.031
ErrorCorrelation 6_38vs7_35 Concordance FinalAge206_238 FinalAge206_238 Prop25E FinalAge207_206 FinalAge207_206 FinalAge207_206 FinalAge207_206 FinalAge207_206 FinalAge207_206 FinalAge207_206 Final_206 Final28_206	0.091 0.2081 0.0064 0.4157 104.27 1221 33 1171 95 580 14 1.1 0.013 4.8054	0.11 0.1908 0.0067 -0.1079 93.75 1125 36 1200 140 387 21 0.557 0.011 5.2411	0.12 0.2255 0.0072 99.544 1310 38 1316 110 274 1.172 0.036 4.4346	0.087 0.1961 0.0058 0.2513 98.046 1154 32 1177 95 584 19 1.301 0.019 5.0994	3.697 0.13 0.282 0.0082 0.3894 103.48 1604 40 1550 85 2540 1550 0.674 0.012 3.5461	0.096 0.2148 0.0066 0.629 98.507 1254 35 1273 92 944 53 0.873 0.873 0.022 4.6555	0.075 0.1633 0.005 0.3007 107.5 975 28 907 120 334 120 334 1.365 0.021 6.1237	0.092 0.189 0.2086 91.028 1116 32 1226 100 670 19 0.7415 0.0093 5.291	1.88 0.079 0.1851 0.059 0.2578 103.8 1094 32 1054 110 422 17 1.804 0.025 5.4025	2.117 0.069 0.199 0.0055 0.5715 101.65 1170 29 1151 84 587 17 5.087 0.075 5.0251	1.78 0.069 0.1785 0.0052 0.1616 103.42 1058 29 1023 97 576 47 1.013 0.034 5.6022	2.988 0.11 0.244 0.0071 0.7481 99.858 1407 37 1409 84 2268 62 0.821 0.012 4.0984	2.044 0.089 0.1935 0.0067 0.2339 99.65 1139 36 1143 110 407 14 0.829 0.015 5.168	1.803 0.079 0.1775 0.0057 0.3018 100.1 1053 31 1052 100 284 17 2.19 0.036 5.6338	2.192 0.091 0.2015 0.0059 0.1939 101.55 1183 32 1165 100 164 11 5.24 0.38 4.9628	2.113 0.091 0.1971 0.0059 0.2765 100.35 1159 32 1155 110 899 25 0.75 0.01 5.0736	1.508 0.061 0.1537 0.0044 98.294 922 24 938 100 373 13 2.111 0.032 6.5062	2.156 0.091 0.1971 0.0063 0.2762 95.47 1159 34 1214 110 359 11 0.991 0.013 5.0736	ARu082 2.017 0.079 0.1941 0.0056 0.0463 105.44 1143 300 1084 10084 1006 600 0.704 0.012 5.152	3.829 0.14 0.2867 0.0086 0.5632 102.46 1624 43 1585 88 549 16 1.358 0.021 3.488	2.069 0.11 0.2019 0.0063 0.0299 114.6 1185 35 1034 120 182 9.1 1.653 0.031 4.9628
ErrorCorrelation 6 38vs7 35 Concordance FinalAge206 238 FinalAge207 206 FinalAge207 206 FinalAge207 206 FinalAge207 206 FinalAge207 206 FinalAge207 206 FinalAge207 206 FinalAge207 206 FinalAge207 FinalAge207 FinalAge207 FinalAge207 Final282 206 Final282 206 Final282 206 Final282 206	0.091 0.2081 0.0064 0.4157 104.27 1221 33 1171 95 580 14 1.1 0.013 4.8054 0.1478	0.11 0.1908 0.0067 -0.1079 93.75 1125 36 1200 140 387 21 0.557 0.011 5.2411 0.184	0.12 0.2255 0.0072 99.544 1310 38 1316 110 274 1.274 1.172 0.036 4.4346 0.1416	0.087 0.1961 0.0058 0.2513 98.046 1154 32 1177 95 584 19 1.301 0.019 5.0994 0.1508	3.697 0.13 0.282 0.0082 0.3894 103.48 1604 40 1550 85 2540 150 0.674 0.012 3.5461 0.1031	0.096 0.2148 0.0066 0.629 98.507 1254 35 1273 92 944 53 0.873 0.022 4.6555 0.143	0.075 0.1633 0.005 0.3007 107.5 975 28 907 120 334 12 1.365 0.021 6.1237 0.1875	0.092 0.189 0.2086 91.028 1116 32 1226 100 670 19 0.7415 0.0093 5.291 0.1652	1.88 0.079 0.1851 0.059 0.2578 103.8 1094 32 1054 110 422 177 1.804 0.025 5.4025 0.1722	2.117 0.069 0.199 0.0055 0.5715 101.65 1170 29 1151 84 587 17 5.087 0.075 5.0251 0.1389	1.78 0.069 0.1785 0.0052 0.1616 103.42 1058 29 1023 97 576 47 1.013 0.034 5.6022 0.1632	2.988 0.11 0.244 0.0071 0.7481 99.858 1407 37 1409 84 2268 62 0.821 0.012 4.0984 0.1193	2.044 0.089 0.1935 0.0067 0.2339 99.65 1139 36 1143 110 407 407 44 0.829 0.015 5.168 0.1789	1.803 0.079 0.1775 0.0057 0.3018 100.1 1053 31 1052 1000 284 177 2.19 0.036 5.6338 0.1809	2.192 0.091 0.2015 0.0059 0.1939 101.55 1183 32 1165 100 164 11 5.24 0.38 4.9628 0.1453	2.113 0.091 0.1971 0.0059 0.2765 100.35 1159 32 1155 110 899 25 0.75 0.01 5.0736 0.1519	1.508 0.061 0.1537 0.0044 98.294 922 24 938 100 373 13 2.111 0.032 6.5062 0.1863	2.156 0.091 0.1971 0.0063 0.2762 95.47 1159 34 1214 1214 110 359 111 0.991 0.013 5.0736 0.1622	ARu082 2.017 0.079 0.1941 0.0056 0.0463 105.44 1143 30 1084 1000 1046 60 0.704 0.012 5.152 0.1486	3.829 0.14 0.2867 0.0086 0.5632 102.46 1624 43 1585 88 549 9 16 1.358 0.021 3.488 0.1046	2.069 0.11 0.2019 0.0063 0.0299 114.6 1185 35 1034 120 182 9.1 1.653 0.031 4.9628 0.1552
ErrorCorrelation 6_38vs7_35 Concordance FinalAge206_238 FinalAge206_238 FinalAge207_206 FinalAge207_206 FinalAge207_206 Propx_Pb_PPM Approx_Pb_PPM_Int25E Final_U_Th_Ratio Final_U_Th_Ratio Final28_206 Final238_206 Final238_206 Final238_206	0.091 0.2081 0.0064 0.4157 104.27 1221 33 1171 95 580 144 1.11 0.013 4.8054 0.1478 0.079	0.11 0.1908 0.0067 -0.1079 93.75 1125 36 1200 140 387 21 0.557 0.011 5.2411 0.184 0.0821	0.12 0.2255 0.0072 99.544 1310 38 1316 110 274 1.172 0.036 4.4346 0.1416 0.0863	0.087 0.1961 0.0058 0.2513 98.046 1154 32 1177 95 584 199 1.301 0.019 5.0994 0.1508 0.0794	3.697 0.13 0.282 0.082 0.3894 103.48 1604 40 1550 85 2540 150 0.674 0.012 3.5461 0.1031 0.0965	0.096 0.2148 0.0066 0.629 98.507 1254 35 1273 92 944 53 0.873 0.022 4.6555 0.143 0.0832	0.075 0.1633 0.005 0.3007 107.5 975 28 907 120 334 122 1.365 0.021 6.1237 0.1875 0.0684	0.092 0.189 0.2086 91.028 1116 32 1226 100 670 19 0.7415 0.0093 5.291 0.1652 0.0813	1.88 0.079 0.1851 0.059 0.2578 103.8 1094 32 1054 110 422 177 1.804 0.025 5.4025 0.1722 0.0744	2.117 0.069 0.199 0.0055 0.5715 101.65 1170 29 1151 84 587 587 7 5.087 0.075 5.0251 0.1389 0.0782	1.78 0.069 0.1785 0.0052 0.1616 103.42 1058 29 1023 97 576 576 47 1.013 0.034 5.6022 0.1632 0.073	2.988 0.11 0.244 0.0071 0.7481 99.858 1407 37 1409 84 2268 62 0.821 0.012 4.0984 0.1193 0.0896	2.044 0.089 0.1935 0.0067 0.2339 99.65 1139 36 1143 110 407 407 414 0.829 0.015 5.168 0.1789 0.0773	1.803 0.079 0.1775 0.0057 0.3018 100.1 1053 31 1052 1000 284 177 2.19 0.036 5.6338 0.1809 0.0748	2.192 0.091 0.2015 0.0059 0.1939 101.55 1183 32 1165 100 164 111 5.24 0.38 4.9628 0.1453 0.079	2.113 0.091 0.1971 0.0059 0.2765 1100.35 1155 1155 1155 1100 899 899 255 0.755 0.011 5.0736 0.1519 0.0786	1.508 0.061 0.1537 0.0044 98.294 922 24 938 100 373 373 133 2.111 0.032 6.5062 0.1863 0.0706	2.156 0.091 0.1971 0.0063 0.2762 95.47 1159 34 1214 110 359 11 0.991 0.013 5.0736 0.1622 0.0811	ARu082 2.017 0.079 0.1941 0.0056 0.0463 105.44 1143 30 1084 1006 1046 60 0.704 0.012 5.152 0.1486 0.0757	3.829 0.14 0.2867 0.0086 0.5632 102.46 1624 43 1585 88 549 16 1.358 0.021 1.358 0.021 3.488 0.1046 0.0984	2.069 0.11 0.2019 0.0063 0.0299 114.6 1185 335 1034 120 182 9.1 1.653 0.031 4.9628 0.1552 0.0746
ErrorCorrelation 6_38vs7_35 Concordance FinalAge206_238 FinalAge206_238.Prop25E FinalAge207_206 FinalAge207_206 FinalAge207_206 FinalAge207_206 Final20_105 Final20_706 Final238_206_Prop25E Final207_206 Final207_206	0.091 0.2081 0.0064 0.4157 104.27 1221 33 1171 95 580 144 1.11 0.013 4.8054 0.1478 0.079 0.0039	0.11 0.1908 0.0067 -0.1079 93.75 1125 36 1200 140 387 21 0.557 0.011 5.2411 0.184 0.0821 0.0056	0.12 0.2255 0.0072 99.544 1310 38 1316 110 274 1.172 0.036 4.4346 0.1416 0.0863 0.0049	0.087 0.1961 0.0058 0.2513 98.046 1154 32 1177 95 584 199 1.301 0.019 5.0994 0.1508 0.0794 0.0039	3.697 0.13 0.282 0.0082 0.3894 10348 1604 40 1550 85 2540 150 0.674 0.012 3.5461 0.1031 0.0965 0.0043	0.096 0.2148 0.0066 98.507 1254 35 1273 92 944 533 0.873 0.873 0.022 4.6555 0.143 0.0832 0.004	0.075 0.1633 0.005 0.3007 107.5 975 28 907 120 334 122 1.365 0.021 6.1237 0.1875 0.0684 0.0038	0.092 0.189 0.2086 91.028 1116 32 1226 100 670 19 0.7415 0.0093 5.291 0.1652 0.0813 0.0044	1.88 0.079 0.1851 0.0059 0.2578 1034 32 1054 110 422 17 1.804 0.025 5.4025 0.1722 0.0744 0.0038	2.117 0.069 0.199 0.0055 0.5715 101.65 1170 29 1151 84 587 177 5.087 0.075 5.0251 0.1389 0.0782 0.0033	1.78 0.069 0.1785 0.0052 0.1616 103.42 1058 29 1023 97 576 47 1.013 0.034 5.6022 0.1632 0.073 0.0037	2.988 0.11 0.244 0.0071 0.7481 99.858 1407 37 1409 84 2268 62 0.821 0.012 4.0984 0.012 4.0984 0.0123 0.0896 0.004	2.044 0.089 0.1935 0.0067 0.2339 99.65 1143 366 1143 110 407 14 0.829 0.015 5.168 0.1789 0.0773 0.0042	1.803 0.079 0.1775 0.0057 0.3018 100.1 1053 311 1052 100 284 17 2.19 0.036 5.6338 0.1809 0.0748 0.004	2.192 0.091 0.2015 0.0059 0.1939 10155 1183 32 1165 100 164 11 5.24 0.38 4.9628 4.9628 0.1453 0.079 0.004	2.113 0.091 0.1971 0.0059 0.2765 100.35 1159 32 1155 110 899 25 0.75 0.01 5.0736 0.1519 0.0786 0.004	1.508 0.061 0.1537 0.0044 98.294 922 24 938 100 373 13 2.111 0.032 6.5062 0.1863 0.0706 0.0036	2.156 0.091 0.1971 0.0063 0.2762 95.47 1159 344 1214 1100 359 111 0.091 0.013 5.0736 0.1622 0.0811 0.0042	ARu082 2.017 0.079 0.1941 0.0056 0.0463 105.44 1143 30 1084 1000 1046 60 0.704 0.012 5.152 0.1486 0.0757 0.004	3.829 0.14 0.2867 0.0086 0.5632 102.46 1624 43 1585 88 549 16 1.358 0.021 3.488 0.1046 0.0984 0.0047	2.069 0.11 0.2019 114.6 1185 335 1034 120 182 9.1 1.655 0.033 4.9628 0.1552 0.0746 0.0045
ErrorCorrelation 6 38vs7 35 Concordance FinalAge206 238 FinalAge207 206 FinalAge207 206 FinalAge207 206 FinalAge207 206 FinalAge207 206 Final207 207 Final207 207 Final207 Final207 Final207 Final207 Final207 Final207 Final207 Final207 Final	0.091 0.2081 0.0064 0.4157 104.27 1221 33 31171 95 580 14 1.1 0.013 4.8054 0.1478 0.079 0.0039 0.2065	0.11 0.1908 0.0067 -0.1079 93.75 1125 36 1200 140 387 21 0.557 0.011 5.2411 0.184 0.0821 0.0056 0.5102	0.12 0.2255 0.0072 99.544 1310 38 1316 110 274 1.172 0.036 4.4346 0.1416 0.0863 0.0049 0.3499	0.087 0.1961 0.0058 0.2513 98.046 1154 322 1177 95 584 19 1.301 0.019 5.0994 0.1508 0.0794 0.0039 0.3262	3.697 0.13 0.282 0.082 0.3894 103.48 1604 40 1550 85 2540 150 0.674 0.012 3.5461 0.0965 0.0043 0.0043 0.3943	0.096 0.2148 0.0066 0.629 98.507 1254 35 1273 92 944 53 0.873 0.873 0.873 0.822 4.6555 0.143 0.0832 0.004 0.1594	0.075 0.1633 0.005 0.3007 107.5 975 28 907 120 334 120 334 122 0.334 0.216 6.1237 0.1875 0.0684 0.0038 0.2168	0.092 0.189 0.2086 91.028 1116 32 1226 100 670 19 0.7415 0.0093 5.291 0.1652 0.0813 0.0044 0.2731	1.88 0.079 0.1851 0.2578 103.8 1094 32 1054 110 422 117 1.804 0.025 5.4025 0.1722 0.0744 0.0038 0.3225	2.117 0.069 0.199 0.0055 0.5715 101.65 11.70 29 1151 84 587 17 5.087 0.075 5.0251 0.1389 0.0782 0.0033 0.2284	1.78 0.069 0.1785 0.0052 0.1616 103.42 1058 29 1023 97 576 47 1.013 0.034 5.6022 0.1632 0.073 0.0037 0.3392	2.988 0.11 0.244 0.0071 0.7481 99.858 1407 37 1409 84 2268 62 0.821 0.012 4.0984 0.1193 0.0896 0.004 -0.0865	2.044 0.089 0.1935 0.0067 0.2339 99.65 1139 366 1143 110 407 14 0.829 0.015 5.168 0.1789 0.0773 0.0042 0.3926	1.803 0.079 0.1775 0.0057 0.3018 1001 1053 11052 100 284 177 2.19 0.036 5.6338 0.1809 0.0748 0.004 0.2759	2.192 0.091 0.2015 0.1939 101.55 1183 32 1165 100 164 111 5.24 0.164 3.8 4.9628 0.1453 0.079 0.004 0.3024	2.113 0.091 0.1971 0.0059 0.2765 100.35 1155 110 899 25 0.75 0.01 5.0736 0.1519 0.0786 0.004 0.2143	1.508 0.061 0.1537 0.0044 98.294 922 24 938 100 373 13 2.111 0.032 6.5062 0.1863 0.0706 0.0036	2.156 0.091 0.1971 0.0063 0.2762 95.47 1159 34 1214 110 359 111 0.991 0.013 5.0736 0.1622 0.0811 0.0042 0.3494	ARu082 2.017 0.079 0.0056 0.0056 0.0463 105.44 1143 300 1084 1084 1000 1046 60 0.704 0.012 5.152 0.1486 0.0757 0.004 0.5173	3.829 0.14 0.2867 0.0686 0.5632 102.46 1624 43 1585 88 549 16 1.358 0.021 3.488 0.0021 3.488 0.0021 0.0984 0.00947 0.1224	2.069 0.11 0.2015 0.0063 0.0299 114.6 1185 3.55 1034 120 182 9.1 1.653 0.031 4.9628 0.1552 0.0746 0.0043 0.0045
ErrorCorrelation 6_38vs7_35 Concordance FinalAge206_238 FinalAge206_238 FinalAge207_206 FinalAge207_206 FinalAge207_206 FinalAge207_206 Final207_206 Final207_Final02 Final207_206 Final207_207_206 Final207_206 Final207_207_206	0.091 0.2081 0.0064 0.4157 104.27 1221 33 1171 95 580 14 1.1 0.013 4.8054 0.1478 0.0478 0.0039 0.2065 126.2	0.11 0.1908 0.0067 -0.1079 93.75 1125 366 1200 140 387 21 0.557 0.011 5.2411 0.0821 0.0821 0.0056 0.0056 0.5102 46.4	0.12 0.2255 0.0072 99.544 1310 38 1316 110 274 1.172 0.036 4.4346 0.1416 0.0863 0.0049 0.3499 59.55	0.087 0.1961 0.0058 0.2513 98.046 1154 322 1177 95 584 19 1.301 0.019 5.0994 0.1508 0.0794 0.0039 0.3262 156.9	3.697 0.13 0.282 0.082 0.3894 103.48 1604 40 1550 85 2540 0.674 0.012 3.5461 0.0965 0.0043 0.3943 257	0.096 0.2148 0.0066 0.629 98.507 1254 35 1273 92 944 53 0.873 0.873 0.873 0.022 4.6555 0.143 0.0832 0.004 0.1594 158.9	0.075 0.1633 0.005 0.3007 107.5 975 28 907 120 334 122 1.365 0.021 6.1237 0.1875 0.0684 0.0038 0.2168 116.4	0.092 0.189 0.0059 0.2086 91.028 1126 100 670 19 0.7415 0.0093 5.291 0.1652 0.00813 0.0044 0.2731 104.2	1.88 0.079 0.1851 0.2578 103.8 1094 32 1054 110 422 177 1.804 0.025 5.4025 0.1722 0.0744 0.0325 0.3225 170.8	2.117 0.069 0.199 0.055 0.5715 1170 29 1151 84 587 177 5.087 0.075 5.0251 0.1389 0.0782 0.0782 0.00782 0.0033 0.2284 619.1	1.78 0.069 0.1785 0.0052 103.42 1058 29 1023 97 576 47 1.013 0.034 5.6022 0.1632 0.077 0.3392 126.9	2.988 0.11 0.244 0.0071 0.7481 99.858 1407 37 1409 84 2268 62 0.821 0.012 4.0984 0.1193 0.0896 0.004 -0.0865 312.9	2.044 0.089 0.1935 0.0067 0.2339 99.65 11139 36 1143 110 407 144 0.829 0.015 5.168 0.1789 0.0742 0.03926 70.6	1.803 0.079 0.1775 0.0057 0.3018 100.1 1053 31 1052 100 284 177 2.19 0.036 5.6338 0.1809 0.0748 0.0044 0.2759 138.4	2.192 0.091 0.2015 0.1939 101.55 1183 32 1165 100 164 111 5.24 0.38 4.9628 0.1453 0.079 0.004 0.3024 165	2.113 0.091 0.1971 0.0059 0.2765 1100.35 1159 32 1155 110 899 25 0.75 0.01 5.0736 0.1519 0.0786 0.0044 0.2143 136.9	1.508 0.061 0.1537 0.0044 98.294 922 24 24 938 100 373 13 2.111 0.032 6.5062 0.1863 0.0706 0.0036 0.00363 212.5	2.156 0.091 0.1971 0.0063 0.2762 95.47 1159 34 1214 110 359 111 0.991 0.013 5.0736 0.1622 0.0811 0.0042 0.3494 76.4	ARu082 2.017 0.079 0.0941 0.0056 0.0463 105.44 1143 300 1046 600 0.704 0.012 5.152 0.1486 0.0757 0.004 0.5173 158.6	3.829 0.14 0.2867 0.0086 0.5632 102.46 1624 43 1585 88 549 16 1.358 0.021 3.488 0.021 3.488 0.0046 0.0984 0.0047 0.1224 112.8	2.069 0.11 0.2015 0.0063 0.0299 114.6 1185 355 1034 1220 182 9.1.1 1.653 0.031 4.9628 0.1552 0.0746 0.0045 0.0045 0.3649 63.13
ErrorCorrelation 6 38vs7 35 Concordance FinalAge206 238 FinalAge207 206 FinalAge207 206 FinalAge207 206 FinalAge207 206 FinalAge207 206 Final207 207 Final207 207 Final207 Final207 Final207 Final207 Final207 Final207 Final207 Final207 Final	0.091 0.2081 0.0064 0.4157 104.27 1221 33 31171 95 580 14 1.1 0.013 4.8054 0.1478 0.079 0.0039 0.2065	0.11 0.1908 0.0067 -0.1079 93.75 1125 36 1200 140 387 21 0.557 0.011 5.2411 0.184 0.0821 0.0056 0.5102	0.12 0.2255 0.0072 99.544 1310 38 1316 110 274 1.172 0.036 4.4346 0.1416 0.0863 0.0049 0.3499	0.087 0.1961 0.0058 0.2513 98.046 1154 322 1177 95 584 19 1.301 0.019 5.0994 0.1508 0.0794 0.0039 0.3262	3.697 0.13 0.282 0.082 0.3894 103.48 1604 40 1550 85 2540 150 0.674 0.012 3.5461 0.0965 0.0043 0.0043 0.3943	0.096 0.2148 0.0066 0.629 98.507 1254 35 1273 92 944 53 0.873 0.873 0.873 0.822 4.6555 0.143 0.0832 0.004 0.1594	0.075 0.1633 0.005 975 28 907 120 334 126 1.365 0.021 6.1237 0.1875 0.0684 0.0188 0.2168 116.4	0.092 0.189 0.2086 91.028 1116 32 1226 100 670 19 0.7415 0.0093 5.291 0.1652 0.0813 0.0044 0.2731	1.88 0.079 0.1851 0.0578 103.8 1094 32 1054 110 422 177 1.804 0.025 5.4025 0.1722 0.0744 0.0038 0.3225 170.8 95	2.117 0.069 0.199 0.0055 0.5715 101.65 11.70 29 1151 84 587 17 5.087 0.075 5.0251 0.1389 0.0782 0.0033 0.2284	1.78 0.069 0.1785 0.0052 0.1616 103.42 1058 29 1023 97 576 47 1.013 0.034 5.6022 0.1632 0.073 0.0037 0.3392	2.988 0.11 0.244 0.0071 0.7481 99.858 1407 37 1409 84 2268 62 0.821 0.012 4.0984 0.1193 0.0896 0.004 -0.0865	2.044 0.089 0.1935 0.0067 0.2339 99.65 1139 366 1143 110 407 14 0.829 0.015 5.168 0.1789 0.0773 0.0042 0.3926	1.803 0.079 0.1775 0.0057 0.3018 1001 1053 11052 100 284 177 2.19 0.036 5.6338 0.1809 0.0748 0.004 0.2759	2.192 0.091 0.2015 0.1939 101.55 1183 32 1165 100 164 111 5.24 0.164 3.8 4.9628 0.1453 0.079 0.004 0.3024	2.113 0.091 0.1971 0.0059 0.2765 100.35 1155 110 899 25 0.75 0.01 5.0736 0.1519 0.0786 0.004 0.2143	1.508 0.061 0.1537 0.0044 98.294 922 24 938 100 373 13 2.111 0.032 6.5062 0.1863 0.0706 0.0036	2.156 0.091 0.1971 0.0063 0.2762 95.47 1159 34 1214 1100 359 11 0.013 5.0736 0.1622 0.0811 0.0042 0.3494 76.4 76.9	ARU082 2.017 0.079 0.1941 0.0056 0.0463 105.44 1143 300 1084 1000 10460 0.0704 0.0704 0.0702 5.152 0.1486 0.0757 0.0044 0.5173 158.6 226	3.829 0.14 0.2867 0.0086 0.5632 102.46 1624 43 1585 88 549 16 1.358 0.021 3.488 0.0046 0.0984 0.0984 0.0047 0.1224 112.8 82.9	2.069 0.11 0.2015 0.0063 0.0299 114.6 1185 1034 120 182 9.1 1.653 0.031 4.9628 0.1552 0.0746 0.0045 0.03649 63.13 38.26

Table 2: U-Pb data for MacDonnell Ranges sample, Arumbera formation.

Inabox 1.9 1.021 1.021 1.021 1.021 2.021 2.026 2.021 2.021 2.021 2.021 0.021	Comments	ARu043	ARu044	ARu045	ARu046	ARu047	ARu048	ARu049	ARu050	ARu051	ARU052	ARu053	ARU054	ARu055	ARu056	ABU057	ABU058	ARU059	ABU060	ABU061	ARu062	ARu063
Intrade 238 Prop25E 0.14 0.28 0.11 0.07 0.08 0.21 0.085 0.21 0.085 0.21 0.011 0.02 0.085 0.21 0.011 0.021 0.011 0.021 0.011 0.021 0.011 0.021 0.011 0.005 0.011 0.005 0.011 0.005 0.011 0.005 0.011 0.005 0.011 0.005 0.001 0.005 0.011 0.005 0.011 0.005 0.011 0.005 0.011 0.005 0.001 0.005 0.001 0.005 0.001 0.005 0.001 0.005 0.001 0.005 0.011 0.005 0.011 0.005 0.001 0.005 0.001 0.005 0.001 0.005 0.001 0.005 0.011 0.012 0.012 0.013 0.013 0.013 0.013 0.013 0.013 0.013 0.013 0.013 0.013 0.013 0.013 0.013 0.013 0.013 0.013 0.013 0.013																						
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Concordance 109.41 92.26 114.36 107.67 91.05 92.37 10.25 92.74 11.21 10.28 11.47 91.08 12.21 92.74 11.21 10.28 11.47 91.08 122 122 123 108 122 1121 1120 1126 1125 1121 <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td>2000</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<>							2000															
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inclasso2 inclasso2 <t< td=""><td></td><td>-</td><td></td><td></td><td>A</td><td></td><td></td><td></td><td></td><td></td><td>-</td><td></td><td></td><td>1330</td><td></td><td></td><td></td><td></td><td></td><td>-</td><td></td><td></td></t<>		-			A						-			1330						-		
Approx_PPb_PM Cols Log Log Log <thlog< th=""> <t< td=""><td>FinalAge207 206 Prop2SE</td><td>87</td><td>94</td><td>120</td><td>120</td><td>83</td><td>110</td><td>89</td><td>100</td><td>130</td><td>110</td><td>110</td><td>86</td><td>87</td><td>91</td><td>94</td><td>100</td><td>95</td><td>210</td><td>100</td><td>200</td><td>330</td></t<></thlog<>	FinalAge207 206 Prop2SE	87	94	120	120	83	110	89	100	130	110	110	86	87	91	94	100	95	210	100	200	330
ring UTh. Ratio 1.505 1.323 0.888 0.888 1.282 0.401 0.014 0.016 0.002 0.006 0.012 0.007 0.014 0.016 0.006 0.022 0.0066 0.001 0.007 0.014 0.016 0.0016 0.0026 0.0066 0.001 0.007 0.024 0.007 0.014 0.016 0.006 0.002 0.0066 0.001 0.0072 0.002 0.007 0.004 0.0017 0.0016 0.0016 0.0016 0.0016 0.0016 0.0016 0.0016 0.0017 0.0017 0.0017 0.0017 0.0017 0.0017 0.0017 0.0017 0.0018 0.0116 0.0116 0.0116 0.0116 0.0116 0.0116 0.0116 0.0116 0.0116 0.0016 0.0017 0.0017 0.0017 0.0017 0.0017 0.0018 0.0017 0.0017 0.0017 0.0017 0.0017 0.0017 0.0017 0.0017 0.0017 0.0017 0.0017 0.0017 0.0017 0.0017 0.0017 0.0017 0.0017 0.0017 0.0016 0.0017 0.0016	Approx Pb PPM	1					1269				397	519		2356		722	831	162222				
Final UTh. Patio 1.505 1.323 0.838 1.235 0.441 0.81 0.139 0.524 0.524 0.545 0.644 0.606 0.026 0.0066 0.001 0.0072 0.0072 0.0072 0.0072 0.0072 0.0072 0.0072 0.0072 0.0072 0.0072 0.0072 0.0072 0.0072 0.0072 0.0072 0.0072 0.0072 0.0072 0.0072 0.0071 0.0072 0.0072 0.0071 0.0072 0.0071 0.0072 0.0071 0.0072 0.0071			-	-													-					
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Final 238_206_Prop 25E 0.1038 0.1338 0.1747 0.1939 0.1037 0.1338 0.1747 0.1939 0.1432 0.2133 0.1437 0.2432 0.1437 0.2432 0.1437 0.233 0.1437 0.233 0.1437 0.233 0.1437 0.233 0.1437 0.233 0.1437 0.233 0.1437 0.233 0.1437 0.233 0.1437 0.233 0.1437 0.233 0.133 0.1336 0.033 0.1031 0.0031 0.0061 0.0041 0.004 0.003 0.0031 0.001 0.013 0.1356 0.238 0.1356 0.237 0.218 0.138 1.444 1.445 1.401 1.401 0.403 1.401 1.401 0.414 1.401 1.401 1.401 1.401 1.401 1.401 1.401 1.401 1.401 1.401	Final U Th Ratio Int2SE											-								-		0.044
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Approx U PPM 128.4 95.7 84.8 76.4 154.9 114.2 269.4 174 39.23 88.1 73.5 247.8 629 63.8 266.1 44.12 20.88 15.25 246 13.99 5.48 Approx U PPM 65.7 71.6 83.8 1.55.7 25.91 33.7 143.6 75 92.2 107 151.9 141.8 144.4 145.5 107.2 22.54 45.45 179.6 141.7 5.46 Comments ARu022 ARu024 ARu024 ARu025 ARu025 ARu027 ARu028 ARu031 ARu031 ARu032 ARu034 ARu036 ARu040 ARu040 ARu040 ARu040 ARu040 ARu040 ARu		0.3363		0.2125		and the second se		100000		0.4279	0.2301					0.1698		2000	10000000			0.3546
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Final207_235 2.58 4.79 2.174 2.28 3.82 12.02 2.173 3.689 2.048 2.18 2.212 4.11 2.177 2.19 4.45 2.22 2.131 2.279 2.131 Final207_235 Prop25E 0.088 0.2 0.075 0.044 0.084 0.13 0.09 0.12 0.11 0.1 0.11 0.13 0.18 0.2076 0.005 0.099 0.005 0.099 0.006 0.012 0.177 0.10 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.006 0.0061 0.0055 0.0061 0.0055 0.0061 0.0055 0.0061 0.0055 0.0061 0.0057 0.0051 0.0061 0.0057 0.0061	Th\U								_			-								-		
Final207_235_Prop2SE 0.088 0.2 0.075 0.091 0.15 0.44 0.084 0.13 0.09 0.15 0.12 0.11 0.11 0.11 0.13 0.18 0.11 0.12 0.11 0.021 0.011 0.005 0.00	Comments	ARu022	ARu023	ARu024	ARu025	ARu026	ARu027	ARu028	ARu029	ARu030	ARu031	ARu032	ARu033	ARu034	ARu035	ARu036	ARu037	ARu038	ARu039	ARu040	ARu041	ARu042
FinalZade_238 0.2233 0.3195 0.1999 0.2085 0.2769 0.483 0.1972 0.2083 0.1833 0.2044 0.1933 0.2133 0.2033 0.2082 0.1977 0.2021 0.2114 0.2021 0.2114 0.2105 0.1997 FinalZade_238 PD725E 0.0063 0.0065 0.0056 0.0056 0.0056 0.0066 0.0067 0.006 0.0066 0.006 0.0066 0.0066 0.0061 0.0063 0.0068 0.0061 0.0063 0.0066 0.0061 0.0063 0.0066 0.0061 0.006	Final207 235	2,598	4.79	2,174	2.28	3,82	12.02	2,173	3.689	2.048	2.18	2.23	2,481	2,129	4.11	2,177	2,19	4.95	2.22	2.31	2,279	2.133
FinalZade_238 0.2233 0.3195 0.1999 0.2085 0.2769 0.483 0.1972 0.2083 0.1833 0.2044 0.1933 0.2133 0.2033 0.2082 0.1977 0.2021 0.2114 0.2021 0.2114 0.2105 0.1997 FinalZade_238 PD725E 0.0063 0.0065 0.0056 0.0056 0.0056 0.0066 0.0067 0.006 0.0066 0.006 0.0066 0.0066 0.0061 0.0063 0.0068 0.0061 0.0063 0.0066 0.0061 0.0063 0.0066 0.0061 0.006	Final207 235 Prop2SE	0.088	0.2	0.075	0.091	0.15	0.44	0.084	0.13	0.09	0.15	0.12	0.11	0.1	0.17	0.11	0.13	0.18	0.1	0.084	0.12	0.076
FinalZade_238_prop25E 0.0063 0.0053 0.0063 0.0053 0.0063 0.0056 0.0063 0.0056 0.0063 0.0066 0.0067 0.0063 0.0066 0.0011 0.0067 0.0061 0.0067 0.0061 0.0066 0.0011 0.0067 0.0061 0.0066 0.0016 0.0016 0.0016 0.0011 0.0067 0.0061 0.0066 0.0016 0.0106 0.0106 0.0106 0.0106 0.0106 0.0106 0.0106 0.0106 0.0106 0.0106 0.0106 0.0106 0.0106 0.0106 0.0116 0.012 0.0618 0.0051 0.0468 0.0066 0.0067 0.0086 0.0086 0.0061 0.0086 0.0016 0.0116 0.0128 0.0168 0.016 0.0116 0.011 0.1618 0.0116 0.011 0.016 0.011 0.016 0.011 0.016 0.011 0.016 0.011 0.016 0.011 0.016 0.011 0.016 0.011 0.016 0.011 0.011 0.011 0.011 0.011 0.011 0.011 0.011 0.011 0.011 0.011	Final206 238	0.2233	0.3195	0.1999	0.2085	0.2769	0.483	0.1972	0.2803	0.1839	0.2004	0.1993	0.2175	0.203	0.2898	0.1977	0.2062	0.3178	0.2021	0.2114	0.2105	0.1997
ErrorCorrelation 6 38vs7_35 0.473 0.4424 0.3483 0.464 0.6157 0.7961 0.2589 0.4531 0.3205 0.1549 0.7233 0.342 0.1255 0.1166 0.1102 0.128 0.239 0.239 0.164 0.1106 0.1128 0.549 0.239 0.166 0.105 0.1128 0.128 0.239 0.168 0.1106 0.1128 0.128 0.239 0.1128 0.1218 0.239 0.128 0.342 0.239 0.166 0.105 0.1128 0.239 0.128 0.342 0.239 0.168 0.170 10.52 10.52 10.66 10.71 10.53 10.54 10.71 11.56 1111 11.53 113 11.51 11.74 11.74 11.34 11.51 11.75 11.74 11.75 11.74 11.74 11.55 11	Final206 238 Prop2SE	0.0063	0.0095			0.0096	0.016	0.0058	0.0084	0.0059	0.008		0.0066	0.0067	0.009	0.0063	0.0086	0.011	0.0067	0.0061	0.0075	0.0058
FinalAge206_238 1299 1786 1177 1200 1575 2546 1160 1592 1088 1176 1171 1268 1191 1639 1162 1207 1778 1186 1236 1137 1126 1131 1629 1162 1171 1268 1191 1639 1162 1207 1778 1186 1236 1137 1177 1186 1236 1137 1126 1137 1208 1131 1202 130 136 1236 123 137 1146 1131 1136 1131 1136 1137 1146 1137 1146 1131 1137 1146 1137 1146 1137 1146 1137 1146 1131 1137 1146 1137 1146 1137 1146 1137 1146 1137 1146 1131 <td>ErrorCorrelation 6 38vs7 35</td> <td>0.473</td> <td>0.4324</td> <td>0.3483</td> <td>0.4464</td> <td>0.6157</td> <td>0.7961</td> <td>0.2589</td> <td>0.4531</td> <td>0.3205</td> <td>0.1549</td> <td>0.2703</td> <td>0.342</td> <td>0.1295</td> <td>0.1064</td> <td>0.1106</td> <td>0.1128</td> <td>0.534</td> <td>0.2394</td> <td>0.327</td> <td>0.44</td> <td>0.4239</td>	ErrorCorrelation 6 38vs7 35	0.473	0.4324	0.3483	0.4464	0.6157	0.7961	0.2589	0.4531	0.3205	0.1549	0.2703	0.342	0.1295	0.1064	0.1106	0.1128	0.534	0.2394	0.327	0.44	0.4239
FinalAge206_238_Prop25E 33 47 30 34 49 71 31 42 32 43 36 35 36 45 34 46 56 36 32 40 33 FinalAge207_206 1301 1769 1154 1200 1120 1120 120 1240 1121 1764 1110 1789 1189 1176 1175 114 Approx_Pb_PPM 2059 515 1309 1076 1885 1560 799 671 409 288 967 233 334 544 807 274 2233 592 384 130.1 114 Approx_Pb_PPM 2059 515 1309 1076 1885 1560 799 671 409 288 967 233 334 544 807 74 223 752 314 124 144 011 11 18 511 777 722 176 6.2 2 19 18 144 0.013 0.828 0.015 0.013 0.028 <	Concordance	99.846	100.96	101.99	101.67	98.622	97.773	97.973	105.29	90.667	105	92.937	101.68	107.1	96.185	98.142	108.74	98.888	98.998	105.1	104.68	3 102,53
FinalAge207_206 1301 1769 1154 1200 1597 2604 1184 1512 1200 1120 120 1212 1704 1114 1110 1788 1136 1175 1147 1147 1147 1141 1100 1788 1136 1175 1147 1147 1141 1100 120 96 120 130 188 1100 95 110 110 1100	FinalAge206 238	1299	1786	1177	1220	1575	2546	1160	1592	1088	1176	1171	1268	1191	1639	1162	1207	1778	1186	1236	1230	1173
FinalAge207_206 1301 1769 1154 1200 1597 2604 1184 1512 1200 1240 1247 1112 1764 1184 1110 1788 1198 1176 1175 1144 FinalAge207_206_Prop25E 86 92 87 73 99 89 110 170 140 110 120 96 120 130 88 100 55 120 88 Approx_Pb_PPM 2059 515 1309 1076 1885 1560 799 671 409 288 997 233 354 454 807 274 223 592 3584 1303 114 110 118 111 11 18 51 17 77 22 17 6.2 22 191 18 144 40 111 11 18 51 17 77 22 17 6.2 22 171 174 174 174 174 174 174 174 174 174 174 174 1749 <	FinalAge206 238 Prop2SE	33	47	30	34	49	71	31	42	32	43	36	35	36	45	34	46	56	36	32	40	31
Approx_Pb_PPM 2059 515 1309 1076 1885 1560 799 671 409 288 967 233 354 544 807 274 2233 532 384 133.1 1144 Approx_Pb_PPM_Int2SE 50 14 33 24 62 54 22 19 18 14 40 11 11 18 51 17 77 22 17 6.2 22 Inal_U_T_Ratio 1.263 1.081 1.84 0.677 0.917 1.174 1.226 1.391 1.286 0.407 0.423 1.662 0.762 0.9 0.356 0.4613 0.837 0.81 3.707 0.22 1.772 1.78 Inal_U_T_Ratio 1.255 0.0074 0.021 0.016 0.028 0.015 0.011 0.016 0.088 0.1607 0.148 0.497 0.423 1.662 1.767 4.921 3.457 4.991 1.414 1.414 <td< td=""><td>FinalAge207 206</td><td>1301</td><td>1769</td><td>1154</td><td>1200</td><td>1597</td><td>2604</td><td>1184</td><td>1512</td><td>1200</td><td>1120</td><td>1260</td><td>1247</td><td>1112</td><td>1704</td><td>1184</td><td>1110</td><td>1798</td><td>1198</td><td>1176</td><td>1175</td><td>5 1144</td></td<>	FinalAge207 206	1301	1769	1154	1200	1597	2604	1184	1512	1200	1120	1260	1247	1112	1704	1184	1110	1798	1198	1176	1175	5 1144
Approx_Pb_PPM 2059 515 1309 1076 1885 1560 799 671 409 288 967 233 354 544 807 74 2233 592 384 131.1 114.4 Approx_Pb_PPM_Int2SE 50 14 33 24 62 54 22 19 18 14 40 11 18 51 17 77 22 17 6.2 22 17 1.74 1.286 0.447 0.423 1.662 0.762 0.9 0.55 0.4613 0.637 0.837 0.83 7.25 1.772 1.72 1.78 0.717 1.78 0.22 0.70 0.73 0.785 0.717 0.785 0.716 0.735 0.717 0.72 0.75 0.775 0.787 0.787 0.757 0.785 0.717 0.785 0.757 0.757 0.757 0.757 0.757 0.757 0.757 0.757 0.757 0.757 0.757	FinalAge207 206 Prop2SE	86	92	89	92	87	73	99	89	110	170	140	110	120	96	120	130	88	100	95	120	89
Final U Th Ratio 1.283 1.081 1.84 0.677 0.917 1.174 1.286 1.391 1.286 0.447 0.423 1.620 0.762 0.5 0.356 0.4613 0.837 0.81 3.725 1.772 1.787 Final U Th Ratio ntso 0.014 0.021 0.016 0.028 0.030 0.013 0.028 0.015 0.011 0.016 0.028 0.035 0.447 0.413 0.837 0.81 3.725 1.772 1.787 Final 238 0.064 0.019 0.022 0.014 0.021 0.016 0.026 0.035 0.013 0.281 0.013 0.028 0.013 0.028 0.013 0.028 0.013 0.028 0.013 0.028 0.013 0.028 0.013 0.028 0.013 0.028 0.023 0.028 0.025 0.013 0.028 0.020 0.028 0.028 0.028 0.013 0.028 0.024 0.029 0.174 0.1392 0.1626 0.0172 0.1612 0.2023 0.168 0.146 0.035 0.046 <t< td=""><td>Approx Pb PPM</td><td>2059</td><td>515</td><td>1309</td><td>1076</td><td>1885</td><td>1560</td><td>799</td><td>671</td><td>409</td><td>288</td><td>967</td><td>233</td><td>354</td><td>544</td><td>807</td><td>274</td><td>2293</td><td>592</td><td>384</td><td>139.1</td><td>1141</td></t<>	Approx Pb PPM	2059	515	1309	1076	1885	1560	799	671	409	288	967	233	354	544	807	274	2293	592	384	139.1	1141
Final U The Ratio Int25E 0.014 0.019 0.028 0.0074 0.014 0.021 0.016 0.022 0.028 0.031 0.013 0.012 0.011 0.016 0.0088 0.015 0.015 0.011 0.016 0.0088 0.015 0.015 0.011 0.016 0.0088 0.015 0.016 0.028 0.028 0.021 0.017 0.016 0.0202 0.016 0.025 0.021 0.016 0.025 0.021 0.016 0.037 0.031 0.024 0.037 0.039 0.0345 0.035 0.035 0.035 0.031 </td <td>Approx Pb PPM Int2SE</td> <td>50</td> <td>14</td> <td>33</td> <td>24</td> <td>62</td> <td>54</td> <td>22</td> <td>19</td> <td>18</td> <td>14</td> <td>40</td> <td>11</td> <td>11</td> <td>18</td> <td>51</td> <td>17</td> <td>77</td> <td>22</td> <td>17</td> <td>6.2</td> <td>2 28</td>	Approx Pb PPM Int2SE	50	14	33	24	62	54	22	19	18	14	40	11	11	18	51	17	77	22	17	6.2	2 28
Final238_206 4.4783 3.129 5.0025 4.7962 3.6114 2.0704 5.071 3.567 5.4377 4.99 5.0176 4.5977 4.9261 3.4507 5.0522 4.8497 3.1466 4.948 4.7304 4.7304 6.0037 1.0169 0.1415 0.1692 0.1712 0.1395 0.1626 0.1072 0.0169 0.164 0.305 0.1646 0.305 0.1646 0.305 0.0798	Final U Th Ratio	1.263	1.081	1.84	0.677	0.917	1.174	1.296	1.391	1.286	0.447	0.423	1.662	0.762	0.9	0.356	0.4613	0.837	0.81	3.725	1.772	
Final238_066 4.4783 3.129 5.0025 4.796 3.6114 2.0704 5.071 3.567 5.4377 4.99 5.0176 4.5977 4.9261 3.4507 5.052 4.8497 3.146 4.948 4.704 4.706 5.0072 Final238_066 Prop25E 0.1263 0.0331 0.1376 0.144 0.1252 0.0668 0.1415 0.0592 0.1712 0.135 0.1626 0.1072 0.0169 0.144 0.059 0.0773 0.08 0.045 0.075 0.008 0.0162 0.0175 0.008 0.0944 0.0797 0.081 0.055 0.045 0.075 0.008 0.008 0.005 0.008 0.005 0.008 0.005 0.008 0.005 0.008 0.005 0.008 0.005 0.008 0.005 0.008 0.005 0.008 0.005 0.008 0.005 0.008 0.005 0.008 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.	Final U Th Ratio Int2SE	0.014	0.019	0.028	0.0074	0.014	0.021	0.016	0.02	0.028	0.03	0.013	0.028	0.015	0.011	0.016	0.0088	0.015	0.015	0.079	0.028	0.023
Final207_206_ 0.084 0.1085 0.0779 0.08 0.0979 0.08 0.0979 0.086 0.0979 0.088 0.0979 0.081 0.0815 0.0765 0.1048 0.0813 0.0769 0.0813 0.0769 0.0810 0.0789 0.0792 0.0777 0.0814 0.0815 0.0765 0.1048 0.0813 0.0769 0.1091 0.0866 0.0792 0.0773 Final207_205_Prop25E 0.0037 0.0056 0.0035 0.0045 0.0045 0.0045 0.0045 0.0051 0.0044 0.0045 0.0031 ErrorCorrelation_38_6vs7_6 0.3452 0.1571 0.236 0.245 0.3474 0.3203 0.297 0.214 0.3655 0.3466 0.0897 0.3496 0.499 0.3491 0.3414 0.303 Approx_UPPM 481 72.7 444 145.7 260.2 12.3 140.6 106 12.5 139.1 109.6 25.7 81.7 17.6 32.4 41.6 43.1 43.1 43.1 43.2 30.5 73.4 159 55.2 36.3 117 <t< td=""><td>Final238 206</td><td>4.4783</td><td>3.1299</td><td>5.0025</td><td>4.7962</td><td>3.6114</td><td>2.0704</td><td>5.071</td><td>3.5676</td><td>5.4377</td><td>4.99</td><td>5.0176</td><td>4.5977</td><td>4.9261</td><td>3.4507</td><td>5.0582</td><td>4.8497</td><td>3.1466</td><td>4.948</td><td>4.7304</td><td>4.7506</td><td>5 5.0075</td></t<>	Final238 206	4.4783	3.1299	5.0025	4.7962	3.6114	2.0704	5.071	3.5676	5.4377	4.99	5.0176	4.5977	4.9261	3.4507	5.0582	4.8497	3.1466	4.948	4.7304	4.7506	5 5.0075
Final207_206_ 0.084 0.1085 0.0779 0.08 0.0979 0.08 0.0979 0.086 0.0979 0.088 0.0979 0.081 0.0815 0.0765 0.1048 0.0813 0.0769 0.0813 0.0769 0.0810 0.0789 0.0792 0.0777 0.0814 0.0815 0.0765 0.1048 0.0813 0.0769 0.1091 0.0866 0.0792 0.0773 Final207_205_Prop25E 0.0037 0.0056 0.0035 0.0045 0.0045 0.0045 0.0045 0.0051 0.0044 0.0045 0.0031 ErrorCorrelation_38_6vs7_6 0.3452 0.1571 0.236 0.245 0.3474 0.3203 0.297 0.214 0.3655 0.3466 0.0897 0.3496 0.499 0.3491 0.3414 0.303 Approx_UPPM 481 72.7 444 145.7 260.2 12.3 140.6 106 12.5 139.1 109.6 25.7 81.7 17.6 32.4 41.6 43.1 43.1 43.1 43.2 30.5 73.4 159 55.2 36.3 117 <t< td=""><td>Final238 206 Prop2SE</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><td></td><td></td><td>-</td></t<>	Final238 206 Prop2SE												-									-
Final207_206_Prop25E 0.0037 0.0056 0.0038 0.004 0.0047 0.0039 0.0044 0.0042 0.0066 0.0043 0.0045 0.0055 0.0052 0.0052 0.0051 0.0044 0.0038 0.0045 0.0038 0.0045 0.0038 0.0045 0.0038 0.0045 0.0031 0.0051	Final207 206	-																				
ErrorCorrelation_38_6vs7_6 0.3452 0.1571 0.2367 0.1982 0.2551 0.1694 0.3396 0.245 0.3474 0.3203 0.2317 0.3655 0.3486 0.2897 0.3496 0.4697 0.3154 0.313 0.2434 0.3655 Approx_U_PPM 481 72.7 494 145.7 260.5 166 212.5 139.1 109.6 25.7 81.7 72.31 53.94 71.6 53.4 26 259.1 96.4 264.4 46.13 416.4 Approx_L_PPM 378.1 67 265.2 212.3 281.7 140.6 162 99.6 84.7 56.7 191.9 43.23 70.05 78.4 159 55.2 306.3 117 70.9 25.94 230.4	Final207 206 Prop2SE	0.0037	0.0056	0.0035	0.004	0.0046	0.0077	0.0039	0.0044	0.0042	0.0066	0.0056	0.0043	0.0045	0.0055	0.0052	0.005	0.0051	0.0044	0.0038	0.0045	
Approx U_PPM 481 72.7 494 145.7 260.5 166 212.5 139.1 109.6 25.7 81.7 72.31 53.94 71.6 53.4 26 25.9.1 96.4 264.4 46.13 416.4 Approx _Th_PPM 378.1 67 265.2 212.3 281.7 140.6 162 99.6 84.7 56.7 191.9 43.23 70.05 78.4 159 55.2 306.3 117 70.9 25.94 230.4	ErrorCorrelation 38 6vs7 6																					
Approx_Th_PPM 378.1 67 265.2 212.3 281.7 140.6 162 99.6 84.7 56.7 191.9 43.23 70.05 78.4 159 55.2 306.3 117 70.9 25.94 230.4						-														-		
																						-
	Approx Th PPM				212.3	281.7	140.6	162	99.6	84.7	56.7	191.9	43.23	70.05	78.4	159	55.2	306.3	117	70.9	25.94	230.6

Comments	ARu106	ARu107	ARu108	ARu109
Final207_235	2.27	2.153	2.229	2.663
Final207_235_Prop2SE	0.12	0.085	0.087	0.11
Final206_238	0.2049	0.1996	0.2027	0.2191
Final206_238_Prop2SE	0.0066	0.0061	0.0061	0.0065
ErrorCorrelation_6_38vs7_35	0.1633	0.3559	0.2597	0.295
Concordance	99.256	100.26	98.59	90.76
FinalAge206_238	1201	1173	1189	1277
FinalAge206_238_Prop2SE	35	33	33	34
FinalAge207_206	1210	1170	1206	1407
FinalAge207_206_Prop2SE	120	100	97	95
Approx_Pb_PPM	343	783	889	311
Approx_Pb_PPM_Int2SE	14	25	22	11
Final_U_Th_Ratio	1.114	0.945	0.809	1.781
Final_U_Th_Ratio_Int2SE	0.018	0.013	0.018	0.052
Final238_206	4.8804	5.01	4.9334	4.5641
Final238_206_Prop2SE	0.1572	0.1531	0.1485	0.1354
Final207_206	0.0812	0.0788	0.0808	0.0894
Final207_206_Prop2SE	0.005	0.0039	0.0039	0.0045
ErrorCorrelation_38_6vs7_6	0.2922	0.2607	0.3461	0.2445
Approx_U_PPM	75.4	149.3	149.5	111.6
Approx_Th_PPM	68	157.5	184.4	63.2
Th\U	0.9019	1.0549	1.2334	0.5663

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			Per003										Per013		Per015	Per016	Per017	Per018	Per019	Per020
Final207_235	4.85	2.826	4.75	1.817	3.53	1.484		3.57	2.191	2.213	3.82	2.15	5.35	4.77	3.771	2.163		2.007	0.899	1.93
Final207_235_Prop2SE	0.19	0.1	0.2	0.075	0.5	0.053	0.085	0.15	0.11	0.092	0.17	0.1	0.33	0.18	0.15	0.089		0.08	0.038	0.15
Final206_238	0.3162	0.2336	0.3271	0.178					0.2013	0.2086	0.2858	0.1999	0.3175		0.2878			0.1946	0.1075	0.1694
Final206_238_Prop2SE	0.011	0.007	0.01	0.0055	0.01	0.0042	0.0061	0.0079	0.0062	0.0064	0.0095	0.0063	0.0098	0.01	0.0086	0.0062	0.0086	0.0053	0.0032	0.0058
ErrorCorrelation_6_38vs7_35	0.5442	0.5029	0.2384	0.2297	0.6143	0.5459	0.1456	0.1997	0.2394	0.3553	0.1254	0.3514	0.7306	0.5237	0.6111	0.071	0.4155	0.2489	0.1481	-0.067
Concordance	98.772	97.196	104.17	100.48	53.805	87.909	106.41	102.15	101.03	107.27	103.98	103.16	89.833	96.847	107.24	101.45	104.29	108.01	100.3	84
FinalAge206_238	1770	1352	1823	1056	1103	887	1195	1565	1182	1224	1619	1174	1776	1751	1630	1186	1605	1146	658	1008
FinalAge206_238_Prop2SE	55	37	49	30	56	24	33	40	33	33	48	34	48	49	43	33	43	29	18	32
FinalAge207_206	1792	1391	1750	1051	2050	1009	1123	1532	1170	1141	1557	1138	1977	1808	1520	1169	1539	1061	656	1200
FinalAge207_206_Prop2SE	88	89	96	97	220	85	100	93	120	100	110	110	110	84	87	100	87	97	110	170
Approx_Pb_PPM	1085	2002	675	333	338	1085	673	665	501	383	472	361	529	1027	1294	505	480	523	494	291
Approx_Pb_PPM_Int2SE	44	37	22	21	34	80	17	32	18	13	18	13	28	26	40	20	13	18	14	18
Final_U_Th_Ratio	1.143	0.716	0.834	1.796	1.028	1.77	0.995	0.763	0.7201	1.748	1.148	1.034	2.349	0.902	0.6181	1.097	4.907	1.77	1.332	0.752
Final_U_Th_Ratio_Int2SE	0.019	0.01	0.012	0.042	0.031	0.2	0.011	0.011	0.009	0.026	0.02	0.018	0.097	0.019	0.0089	0.02	0.091	0.023	0.015	0.044
Comments	Per100	Per101	Per102	Per103	Per104	Per105	Per106	Per107	Per108	Per109	Per110	Per111	Per112	Per113	Per114	Per115	Per116	Per117	Per118	Per119
Final207_235	1.661	2.135	3.193	3.774	1.648	1.655	2.13	3.518	2.88	1.838	2.172	2.223	4.46	4.1	0.962	1.78	1.928	2.154	2.142	2.17
Final207_235_Prop2SE	0.055	0.084	0.11	0.14	0.066	0.062	0.12	0.14	0.15	0.074	0.089	0.086	0.18	0.18	0.059	0.064	0.073	0.1	0.092	0.14
Final207_235_FT0p23E	0.1553	0.1965	0.2564	0.2815	0.1678			0.2491	0.2323	0.1772	0.2037	0.2044	0.2943	0.2908	0.1109		0.1764	0.1979	0.1958	0.193
	0.1555	0.1965	0.2564	0.2815	0.0055	0.1658	0.197	0.2491	0.2323	0.0057	0.2037	0.2044	0.2945	0.2908	0.0041	0.1758	0.1764	0.1979	0.1958	0.195
Final206_238_Prop2SE		0.2894	0.1861	0.0084	0.5068	0.3564	-0.012	000000000	0.1999	0.5093	0.4512	0.0065	0.7774	0.0088	0.0041	0.005	0.6033	0.0062	0.0061	0.0071
ErrorCorrelation_6_38vs7_35	0.7234							0.7675											507.50.75	
Concordance	82.593	101.14	104.85	101.46			98.136		96.557	101.94	108.05	101.27	93.577	101.48	104.15	102.25	88.729	102.37	99.568	91.613
FinalAge206_238	930	1156	1471	1598	999	989	1158	1441	1346	1051	1195	1198	1661	1645	677	1044	1047	1164	1152	1136
FinalAge206_238_Prop2SE	24	34	38	42	31	25	37	52	37	31	32	35	55	44	24	28	1000	34	33	38
FinalAge207_206	1126	1143	1403	1575	961	969	1180	1662	1394	1031	1106	1183	1775	1621	650	1021	1180	1137	1157	1240
FinalAge207_206_Prop2SE	82	96	91	89	99	93	140	83	110	96	97	95	84	98	150		95	110	110	150
Approx_Pb_PPM	525	1196	826	427	387	479	304	1530	183.9	245	344	4.6	688	557	204.3	714	507	500	786	361
Approx_Pb_PPM_Int2SE	15	24	26	15	13	13	16	150	8.1	10	11	1.3	53	22	8.5	41	17	17	27	22
Final_U_Th_Ratio	5.069	0.831	1.654	2.481	1.533	3.261	0.53	0.607	1.65	2.635	1.548	229	1.456	1.58	0.95	1.498		1.08		0.643
Final_U_Th_Ratio_Int2SE	0.07	0.013	0.021	0.04	0.025	0.058	0.015	0.025	0.028	0.035	0.025	26	0.034	0.027	0.016	0.04	0.061	0.016	0.0084	0.011
Comments	Per080	Per081	Per082	Per083	Per084	Per085	Per086	Per087	Per088	Per089	Per090	Per091	Per092	Per093	Per094	Per095	Per096	Per097	Per098	Per099
Final207_235	6.67	2.199	1.946	6.8	2.179	2.225	2.167	3.92	2.236	2.077	3.8	1.955	3.42	3.79	1.695	2.211	2.261	7.23	1.19	2.293
Final207_235_Prop2SE	0.23	0.093	0.076	0.22	0.086	0.076	0.081	0.17	0.094	0.081	0.15	0.073	0.14	0.13	0.072	0.094	0.087	0.25	0.42	0.11
Final206_238	0.3768	0.1967	0.1914	0.3844	0.2013	0.2058	0.198	0.3021	0.2042	0.1961	0.2862	0.1876	0.2659	0.2768	0.1702	0.1913	0.2073	0.4084	0.118	0.2071
Final206_238_Prop2SE	0.011	0.0057	0.0061	0.011	0.0057	0.0057	0.0057	0.0091	0.0062	0.0063	0.0081	0.0055	0.0077	0.0073	0.0053	0.0061	0.0063	0.011	0.017	0.0068
ErrorCorrelation_6_38vs7_35	0.2381	0.3825	0.4085	0.6912	0.0971	0.4928	0.2137	0.4215	0.3497	0.5259	0.457	0.5316	0.4517	0.3165	0.5883	0.4249	0.0276	0.5596	0.289	0.4988
Concordance	99.806	96.103	108.98	102.29	100.51	104.15	98.394	113.97	105.56	104.62	105.67	104.23	103.19	96.744	103.68	89.809	106.49	106.62	705	102.62
FinalAge206_238	2060	1159	1129	2096	1182	1206	1164	1705	1197	1154	1622	1108	1519	1575	1013	1128	1214	2207	705	1213
FinalAge206_238_Prop2SE	51	30	33	53	31	31	31	46	34	34	41	30	39	37	29	33	34	52	94	36
FinalAge207_206	2064	1206	1036	2049	1176		1183	1496	1134	1103	1535	1063	1472	1628	977	1256	1140	2070	100	1182
FinalAge207_206_Prop2SE	82	100	98	74	100	89	92	94	100	94	95	92	94	86	100	95	97	81	1000	100
Approx Pb PPM	805	632	369	1715	1190	2390	603	730	549	503	403	1217	912	1388	847	531	570	610	1.19	340
Approx Pb PPM Int2SE	22	23	16	30	110	43	16	23	16	19	14	25	28	32	28	45	25	18	0.78	15
Final U Th Ratio	1.103	0.986	3.09	1.693	0.61	0.845	1.204	1.075	1.114	1.822	1.653	1.158	0.8033	1.065	0.766	1.55	1.274	2.009	#######	1.689
Final U Th Ratio Int2SE	0.012	0.017	0.08	0.019	0.011	0.045	0.022	0.053	0.019	0.026	0.026	0.012	0.0091	0.02	0.013	0.21	0.018	0.03	#######	0.033
	Per060	Per061	Per062	Per063	Per064	Per065	Per066	Per067	Per068	Per069	Per070	Per071	Per072	Per073	Per074	Per075	Per076	Per077	Per078	Per079
Final207_235	1.76	4.04	2.315	2.675	0.883	4.72	2.004	4.45	2.18	1.98	2.193	0.93	4.32	2.11	2.154		2.274	2.14	2.303	1.42
Final207_235_Prop2SE	0.11	0.16	0.095	0.094	0.035	0.17	0.074	0.19	0.077	0.13	0.082	0.059	0.18	0.14	0.073	0.081	0.077	0.13	0.082	0.28
-	0.1753	0.29	0.2104	0.2306	0.106	0.3215	0.1928	0.3063	0.1928	0.1723	0.1994	0.1095	0.3033	0.198	0.1995		0.2057	0.2085	0.2093	0.127
		0.009	0.0065	0.0071	0.0032	0.0095	0.0055	0.0087	0.006	0.0071	0.0062	0.004	0.0098	0.0067	0.0057	0.0055	0.0059	0.0074	0.0061	0.012
	0.0062	100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100					0.4824	0.5504	0.4641	0.169	0.3397	0.351	0.3991	-0.057	0.4737	-0.178	0.3188	0.5751	0.4039	0.1161
	0.0721	0.4078	0.2133	0.2947	0.4635	0.4653		Contract Contract		10.000000	100 C 100 C 100 C									89.765
Concordance	0.0721 110.64	101.86	102.84	104.86	102.52	103.28	108.19	99.538	92.735	81.27	99.744	111.5	100.83	104.86	103.17	103.41	101.77	109.32	103.55	
Concordance FinalAge206_238	0.0721 110.64 1040	101.86 1644	102.84 1230	104.86 1337	102.52 651	103.28 1796	108.19 1136	1722	1136	1024	1171	669	1706	1164	1172	1000	1205	1220	1225	763
Concordance	0.0721 110.64 1040 34	101.86	102.84	104.86 1337 37	102.52	103.28 1796 47	108.19 1136 30	1722 43	1136 32	1024 39	1171 33	669 23	1706 48		1172 31		-	-	1225 32	763 69
Concordance FinalAge206_238	0.0721 110.64 1040	101.86 1644	102.84 1230	104.86 1337	102.52 651	103.28 1796	108.19 1136	1722	1136	1024	1171	669	1706	1164	1172	1000	1205	1220	1225	763
Concordance FinalAge206_238 FinalAge206_238_Prop2SE	0.0721 110.64 1040 34	101.86 1644 44	102.84 1230 35	104.86 1337 37	102.52 651 19	103.28 1796 47	108.19 1136 30	1722 43	1136 32	1024 39	1171 33	669 23	1706 48	1164 36	1172 31	1000 30	1205 32	1220 40	1225 32	763 69
Concordance FinalAge206_238 FinalAge206_238_Prop2SE FinalAge207_206	0.0721 110.64 1040 34 940	101.86 1644 44 1614	102.84 1230 35 1196	104.86 1337 37 1275	102.52 651 19 635	103.28 1796 47 1739	108.19 1136 30 1050	1722 43 1730	1136 32 1225	1024 39 1260	1171 33 1174	669 23 600	1706 48 1692	1164 36 1110	1172 31 1136	1000 30 967	1205 32 1184	1220 40 1116	1225 32 1183	763 69 850
Concordance FinalAge206_238 FinalAge206_238_Prop2SE FinalAge207_206 FinalAge207_206_Prop2SE	0.0721 110.64 1040 34 940 140	101.86 1644 44 1614 89	102.84 1230 35 1196 99	104.86 1337 37 1275 92	102.52 651 19 635 100	103.28 1796 47 1739 85	108.19 1136 30 1050 91	1722 43 1730 89	1136 32 1225 87	1024 39 1260 150	1171 33 1174 91	669 23 600 150	1706 48 1692 92	1164 36 1110 150	1172 31 1136 89	1000 30 967 120	1205 32 1184 88	1220 40 1116 120	1225 32 1183 93	763 69 850 480
Concordance FinalAge206_238 FinalAge206_238_Prop2SE FinalAge207_206 FinalAge207_206_Prop2SE Approx_Pb_PPM	0.0721 110.64 1040 34 940 140 204	101.86 1644 44 1614 89 509	102.84 1230 35 1196 99 355	104.86 1337 37 1275 92 1079	102.52 651 19 635 100 519	103.28 1796 47 1739 85 536	108.19 1136 30 1050 91 1097	1722 43 1730 89 1203	1136 32 1225 87 1889	1024 39 1260 150 135.4	1171 33 1174 91 527	669 23 600 150 221	1706 48 1692 92 556	1164 36 1110 150 169.6	1172 31 1136 89 1418	1000 30 967 120 243	1205 32 1184 88 1326	1220 40 1116 120 273	1225 32 1183 93 1030	763 69 850 480 4.5

Table 3: U-Pb data for MacDonnell Ranges sample, Pertatataka formation.

Mohammed Al-Ghafri The Age and Sediments Source of the Amadeus Basin Cryogenian-Ediacaran Stratigraphy

Comments	Per040	Per041	Per042	Per043	Per044	Per045	Per046	Per047	Per048	Per049	Per050	Per051	Per052	Per053	Per054	Per055	Per056	Per057	Per058	Per059
Final207_235	2.021	2.17	2.177	4.84	2.125	2.278	3.718	2.287	2.316	4.79	3.841	3.901	2.261	4.5	2.405	1.499	4.77	1.85	1.925	2.311
Final207_235_Prop2SE	0.085	0.14	0.11	0.18	0.091	0.1	0.14	0.1	0.092	0.21	0.14	0.15	0.093	0.2	0.097	0.062	0.19	0.12	0.08	0.1
Final206_238	0.1887	0.1916	0.2021	0.3217	0.1997	0.2075	0.2842	0.2085	0.2062	0.3149	0.2885	0.2862	0.2101	0.2993	0.2108	0.1586	0.3196	0.1809	0.1841	0.2119
Final206_238_Prop2SE	0.0056	0.0077	0.0065	0.0095	0.0059	0.0064	0.0086	0.0066	0.006	0.01	0.0082	0.009	0.0061	0.011	0.0067	0.005	0.01	0.007	0.0058	0.0066
ErrorCorrelation_6_38vs7_35	0.2278	0.2083	0.2005	0.5247	0.1659	0.3025	0.4286	0.1464	0.3185	0.6351	0.2473	0.2048	0.1709	0.3069	0.2072	0.5521	0.1932	0.1477	0.2376	0.4422
Concordance	97.723	86.183	101.72	102.33	103.81	100.91	104.68	107.11	98.693	100.57	104.27	101.95	107.06	98.713	95.95	109.33	101.65	101.04	100.74	107.56
FinalAge206_238	1116	1129	1186	1798	1173	1215	1612	1220	1208	1764	1637	1621	1229	1687	1232	949	1786	1071	1089	1238
FinalAge206_238_Prop2SE	31	41	35	47	31	34	43	35	32	51	42	45	32	53	36	28	51	38	32	35
FinalAge207_206	1142	1310	1166	1757	1130	1204	1540	1139	1224	1754	1570	1590	1148	1709	1284	868	1757	1060	1081	1151
FinalAge207_206_Prop2SE	100	130	120	85	110	100	90	110	96	91	93	95	100	100	100	99	94	150	110	100
Approx_Pb_PPM	446	179.8	284	644	413	708	586	363	964	889	643	537	355	486	740	341	549	208.5	532	511
Approx_Pb_PPM_Int2SE	16	8.8	11	23	19	20	18	11	23	36	39	18	12	23	23	13	21	8.8	19	20
Final_U_Th_Ratio	1.5	0.626	1.216	2.483	1.339	0.834	1.45	1.407	0.964	1.517	1.152	1.242	1.752	1.231	1.092	2.321	0.891	0.772	1.061	1.174
Final_U_Th_Ratio_Int2SE	0.034	0.013	0.021	0.046	0.019	0.011	0.021	0.019	0.015	0.026	0.022	0.018	0.024	0.027	0.015	0.043	0.013	0.023	0.016	0.036
Comments	Per021	Per022	Per023	Per024	Per025	Per026		Per027	Per028	Per029	Per030	Per031	Per032	Per033	Per034	Per035	Per036	Per037	Per038	Per039
Final207_235	3.904	2.822	2.17	2.147	1.035		0.98	4.02	4.912	1.99	2.267	3.4	2.566	2.217	3.693	7.73	2.194	1.886	4.169	3.658
Final207_235_Prop2SE	0.14	0.11	0.1	0.084	0.072		0.17	0.16	0.16	0.21	0.097	0.12	0.1	0.098	0.13	0.25	0.1	0.11	0.15	0.14
Final206_238	0.2986	0.2384	0.2089	0.2049	0.1026		0.1049	0.2878	0.3308	0.1922	0.2023	0.2708	0.2165	0.2113	0.2837	0.3425	0.1944	0.1879	0.2989	0.2736
Final206_238_Prop2SE	0.0089	0.0077	0.0058	0.006	0.0063		0.0071	0.0083	0.0094	0.0078	0.0065	0.0074	0.0078	0.0062	0.0083	0.01	0.0072	0.0066	0.0088	0.01
ErrorCorrelation_6_38vs7_35	0.6446	0.3747	0.5988	0.5403	0.8033	0.0	086513	0.3086	0.5069	0.1098	0.214	0.178	0.6871	0.0929	0.7202	0.8466	0.2804	0.1991	0.6264	0.528
Concordance	108.09	101.62	110.68	109.18	60.794	114.4	642857	97.957	104.48	122.37	100.68	107.22	95.317	111.36	107.05	76.263	96.218	107.67	101.94	98.048
FinalAge206_238	1683	1377	1223	1201	628		641	1630	1842	1138	1187	1545	1262	1235	1609	1902	1145	1109	1685	1557
FinalAge206_238_Prop2SE	44	40	31	32	37		42	41	45	41	35	38	42	33	42	49	39	36	44	51
FinalAge207_206	1557	1355	1105	1100	1033		560	1664	1763	930	1179	1441	1324	1109	1503	2494	1190	1030	1653	1588
FinalAge207_206_Prop2SE	87	95	110	93	110		380	87	80	230	110	90	93	100	83	71	110	130	81	85
Approx_Pb_PPM	706	326	1166	463	1910		2	482	484	239	585	336	972	633	2142	3600	720	167.1	3730	996
Approx_Pb_PPM_Int2SE	17	16	28	16	190		0.95	18	11	14	17	14	36	19	76	130	43	8.6	160	38
Final_U_Th_Ratio	1.648	2.601	0.588	1.402	0.252	-7.	00E+05	1.304	3.959	0.562	0.999	3.129	1.368	1.036	1.134	1.053	0.843	1.112	0.609	0.778
Final_U_Th_Ratio_Int2SE	0.023	0.056	0.01	0.027	0.044	1.	90E+05	0.02	0.055	0.013	0.013	0.047	0.025	0.015	0.017	0.014	0.018	0.019	0.0089	0.012

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Comments	PIO-020					4.94	4.007	2.269	PIO-028	4.9	PIO-030	4.12					PIO-036 2.148			PIO-039
Final207_235	2.658	5.63	3.5	5.25	1.928								4.117	1.98		2.722			5.35	4.5
Final207_235_Prop2SE	0.13	0.28	0.22	0.28	0.08	0.22	0.18	0.1		0.24		0.21		0.1						0.2
Final206_238	0.2252	0.2485	0.1569	0.3296	0.1022	0.3276	0.2844	0.1955	0.184	0.3126	0.256	0.2605	0.2671	0.1829	0.304	0.2251	0.1983	0.2726	0.3288	0.305
Final206_238_Prop2SE	0.0068	0.01	0.0067	0.011	0.0029	0.0094	0.0086	0.0058	0.0054	0.0098	0.014	0.011	0.008	0.0054	0.0092	0.0068	0.0059	0.0077	0.0099	0.008
ErrorCorrelation_6_38vs7_35	0.20458	0.85434	0.84146	0.5188	0.72842	0.51354	0.51181	0.51694		0.37356	0.83098	0.84778	0.47833	0.29293		0.3542	0.10601	0.27329	0.43958	0.5563
Concordance	100.153	56.8698	38.1922	98.9752	29.0028	101.388	97.2859	89.7116		95.581		82.5055								
FinalAge206_238	1309	1428	938	1835	628.2	1826	1613	1151		1752	1464	1495	1525	1085			1166		1831	171
FinalAge206_238_Prop2SE	36	53	37	51	18	46	43	31	29	48		57	41	28			32		48	4
FinalAge207_206	1307	2511	2456	1854	2166	1801	1658	1283	1065	1833	1727	1812	1815	1111	1810	1344	1124	1 1924	1909	175
FinalAge207_206_Prop2SE	100	70	76	94	73	81	88	91	100	92	86	82	74	100	85	94	120	83	76	8
Final_U_Th_Ratio	0.736	0.533	0.2612	1.023	0.386	2.434	1.073	0.3814	2.056	0.859	0.672	0.959	1.69	2.488	1.84	1.721	1.082	0.643	1.853	1.18
Final_U_Th_Ratio_Int2SE	0.02	0.046		0.028	0.009	0.077	0.023	0.0056												
		1	4	2.4	100					-		24	110					-		110
Comments	PIO-001	PIO-002	PIO-003	PIO-004	PIO-00	PIO-00	6 PIO-00	07 PIO-0	008 PIO-0	009 PIO-	D10 PIO-	011 PIO	-012 PIO	-013 PIC	0-014 PI	0-015 PI	0-016 P	IO-017 P	IO-018 P	10-019
Final207_235	5.23	2.0	7 3.21	5 2.20	3.	4.3	88 11	.94 3	.175 2	.808	2.97	2.84	2.08	9.92	3.958	1.552	3.7	2.045	2.023	1.89
Final207_235_Prop2SE	0.23	3 0.1	5 0.1	5 0	.1 0.	17 0.	19 0	.57	0.15	0.14	0.32	0.16	0.14	0.43	0.17	0.084	0.17	0.12	0.11	0.13
Final206 238	0.3132	0.194													0.2874	0.1566	0.2786	0.1877	0.1911	0.1829
Final206_238_Prop2SE	0.0098									_			.0082		0.0081		0.0084	0.0064	0.0061	0.0069
ErrorCorrelation_6_38vs7_35	0.75825	0.0055	3 0.4901	5 0.081	15 0.474	24 0.70	33 0.89	0.80	0223 0.2:	1673 0.9	8206 0.	1695 0.	1339 0.	53795 0	41542 0	.18599 (.40416	3.48E-05	0.43933	0.19094
Concordance	87.27	107.2	9 101.23	4 101.3	18 102.7	15 85.41	78 77.5	868 57.6	5536 99	.492 60.	4269 10	01.18 96	2712 99	3027 9	9.8161 9	5.9058 1	03.054	96.5248	100.803	97.4775
FinalAge206_238	1755	5 114					05 2					1372	1136	2421	1628	937	1586	1111	1130	1082
					-		_													
FinalAge206_238_Prop2SE	48						45	68	41	40	95	37	45	59	40	26	41	34	34	38
FinalAge207_206	2011	107	0 145	59 11	37 15	84 18	79 29	909 1	1986	1378	1827	1356	1180	2438	1631	977	1539	1151	1121	1110
FinalAge207_206_Prop2SE	71	7 17	0 9	0	97	35	78	70	80	99	88	110	140	73	83	110	91	120	110	140
Final206_204	1.80E+05			5 5.80EH			05 1.68E	05 8.90		E+04 4.80	E+04 3.50		4E+04 1.2	9E+05 7.5	50E+04 3.	50E+04 7.	50E+04 1	.82E+04 3	.40E+04 1	L.11E+04
	2.1							-					0.977							
Final_U_Th_Ratio	-	1.45									0.535	-		1.551	3.445	0.963	1.407	0.988	0.982	0.61
Final_U_Th_Ratio_Int2SE	0.11	0.03	3 0.03	15 1	.6 0.0	27 0.0	36 0.0	048 0	.057	0.03	0.03 0	0.024	0.044	0.031	0.061	0.016	0.024	0.018	0.016	0.01
Comments	PIO-100	PIO-101	PIO-102	PIO-103	PIO-104	PIO-105	PIO-106	PIO-107	PIO-108	PIO-109	PIO-110	PIO-111	PIO-112	PIO-113	PIO-114	PIO-115	PIO-116	PIO-117	PIO-118	PIO-119
					4.4															
Final207_235	2.35	2.35	1.345	4.028		5.81	4.14	2.207		4.238	4.7	2.47	2.07	5.11	5.42	7.86	3.632	4.6	2.627	3.9
Final207_235_Prop2SE	0.17	0.15	0.077	0.18	1.8	0.29	0.19	0.11	0.22	0.19	0.22	0.17	0.13	0.23	0.24	0.45	0.15		0.13	0.1
Final206_238	0.145	0.1424	0.1442	0.2869	0.233	0.3527	0.2888	0.2031	0.291	0.285	0.3202	0.19	0.1962	0.3206	0.3297	0.3917	0.2634	0.2979	0.1608	0.285
Final206_238_Prop2SE	0.011	0.008	0.0045	0.0085	0.048	0.011	0.0093	0.0062	0.01	0.0085	0.0097	0.011	0.0067	0.01	0.01	0.013	0.0077	0.0098	0.006	0.008
ErrorCorrelation_6_38vs7_35		0.9244	0.3408	0.51257	0.5673	0.67894	0.17308	0.50112		0.32791	0.46242	0.724	0.12146	0.7966	0.59376	0.68892	0.50754		0.78238	0.1548
Concordance	44.6677	44.1237	102.844	99.7549	66.3366	100.777	96.0611	103.565		93.2487	104.07	75.2011	105.872	94.8121	96.378	94.5527	94.4236		50.0261	100.93
FinalAge206_238	867	856	868	1628	1340	1946	1634	1191		1616	1790	1122	1154	1791	1836	2135	1507		960	161
FinalAge206_238_Prop2SE	61	45	25	44	260	54	47	33		43		59	36	49	48		39		33	4
FinalAge207_206	1941	1940	844	1632	2020	1931	1701	1150	1684	1733	1720	1492	1090	1889	1905	2258	1596	1796	1919	160
FinalAge207_206_Prop2SE	78	80	130	82	660	85	92	96		84		97	130	74	84		82		81	9
	0.424	0.475	4.33	1.407	0.4	0.929	1.078	0.965	0.811	1.305	1.241	1.11	0.57		1,498	1.91	1.03		0.362	
Final_U_Th_Ratio														1.81						0.91
Final_U_Th_Ratio_Int2SE	0.014	0.018	0.13	0.032	0.1	0.014	0.015	0.014	0.018	0.043	0.022	0.13	0.026	0.16	0.032	0.052	0.016	0.42	0.013	0.01
Comments	PIO-080	PIO-081	PIO-082	PIO-083	PIO-084	PIO-085	PIO-086	PIO-087	PIO-088	PIO-089	PIO-090	PIO-091	PIO-092	PIO-093	PIO-094	PIO-095	PIO-096	PIO-097	PIO-098	PIO-099
Final207_235	10.81	30.44	5.85	1.198	5.13	4.94	2.761	3.71		3.22	3.58	4.27	3.28	3.851	4.606	5.11	2.11		3.732	2.02
			100000																	
Final207_235_Prop2SE	0.53	1.2	0.28	0.082	0.24	0.23	0.11	0.19		0.15	0.18	0.19	0.15	0.17	0.2	0.23	0.14		0.17	0.09
Final206_238	0.483	0.2433	0.3562	0.1275	0.3237	0.3212	0.1451	0.273		0.261	0.2763	0.2814	0.2579	0.2394	0.297	0.3132	0.1931		0.2742	0.184
Final206_238_Prop2SE	0.016	0.0066	0.011	0.0047	0.0096	0.0095	0.0043	0.0085	0.0082	0.0075	0.0081	0.0089	0.0075	0.0074	0.0092	0.011	0.0059	0.0088	0.0081	0.005
ErrorCorrelation 6 38vs7 35	0.57171	0.72993	0.41812	0.13829	0.36118	0.34369	0.69513	0.22678	0.33546	0.23456	0.2627	0.62995	0.47502	0.81706	0.53101	0.87385	0.09922	0.57908	-0.01572	0.3921
Concordance	102.588	27.0067	102.08	97.8481	97.4649	99.0618	39.7541	99.8079		104.695	104.8	90.1464	100.819	73.5247	90.4428		100.708		98.5489	94.14
FinalAge206_238	2537	1403	1963	773	1807	1795	873	1559		1494	1572	1601	1478	1383	1675	1754	1138		1562	109
	-									-										
FinalAge206_238_Prop2SE	70	34	52	27	47	46	24	42		39	41	43	38	38	46	52	32		41	3
FinalAge207_206	2473	5195	1923	790	1854	1812	2196	1562	1536	1427	1500	1776	1466	1881	1852	1921	1130	1155	1585	116
FinalAge207_206_Prop2SE	83	83	90	160	88	88	76	100	110	99	91	81	87	76	78	76	140	110	84	9
Final_U_Th_Ratio	1.182	0.9269	1.37	0.38	1.333	0.892	0.76	1.413	1.649	1.137	1.216	0.932	1.061	1.368	0.78	0.681	0.641	1.894	2.033	0.92
Final_U_Th_Ratio_Int2SE	0.027	0.0073	0.024	0.006	0.019	0.013	0.014	0.036		0.037	0.02	0.027	0.014	0.046			0.011		0.051	0.02
											-					-				
Comments	PIO-060	PIO-061	PIO-062	PIO-063	PIO-064	PIO-065	PIO-066	PIO-067	PIO-068	PIO-069	PIO-070	PIO-071	PIO-072	PIO-073	PIO-074	PIO-075	PIO-076	PIO-077	PIO-078	PIO-079
Final207_235	5.321	1.85	8.8	3.359	4.498	5.06	2.32	3.328	3.206	3.96	8.44	1.899	3.798	5.12	3.83	10.48	4.966	4.61	4.572	3.51
Final207_235_Prop2SE	0.23	0.12	0.39	0.16	0.2	0.24	0.15	0.16	0.15	0.2	0.36	0.097	0.18	0.24	0.18	0.87	0.21	0.21	0.2	0.1
Final206_238	0.3313	0.1771	0.4301	0.2441	0.2807	0.3156	0.1931	0.2517		0.2858	0.4268	0.1816	0.278	0.3246			0.3105	0.3128	0.3117	0.258
Final206_238_Prop2SE	0.0096	0.006	0.012	0.0084	0.0083	0.011	0.0062	0.008	0.0075	0.0087	0.013	0.0056		0.0099	0.0087		0.009	0.0094	0.0089	0.007
ErrorCorrelation_6_38vs7_35		0.25841		0.76637	0.40472	0.84013	0.11887	0.43958			0.53401	0.20507		0.59212					0.50477	0.1600
Concordance	98.5043	90.2146	99.9566	87.7182	84.9468	94.2523	84.9254	94.8197			101.778			96.9486		79.4702	93.6193		100.806	94.327
FinalAge206_238	1844	1051	2305	1407	1597	1771	1138	1446						1811					1751	148
FinalAge206_238_Prop2SE	47	33	56	44	41	54	34	41	40	45	57	31	44	48	44	140	45	6 46	43	4
FinalAge207_206	1872	1165	2306	1604	1880	1879	1340	1525		1607	2250			1868	1560	2718	1865	5 1722	1737	156
FinalAge207_206_Prop2SE	80	120		87	83	76	130	94				110		82	87				81	9
Final_U_Th_Ratio	2.115	1.115			0.525	2.69	0.889	1.361				1.665		0.893					1.821	1.2
Final_U_Th_Ratio_Int2SE	0.039	0.021	0.047	0.011	0.525	0.38	0.021	0.031				0.027		0.018					0.023	0.07
Comments	PIO-040	PIO-041	PIO-042	PIO-043			PIO-046	PIO-047	PIO-048	PIO-049		PIO-051	PIO-052	PIO-053	PIO-054		PIO-056	PIO-057	PIO-058	PIO-059
Final207_235	1.692	5.33	4.791	1.859	4.701	6.96	4.2	12.07	1.625	5.34	4.569	3.78	18.46	1.759	5.625	3.8	3.58	2.804	1.913	1.18
Final207_235_Prop2SE	0.075	0.23	0.2	0.12	0.2	0.3	0.29	0.52	0.089	0.24	0.2	0.19	0.96	0.091	0.24	0.18	0.17	0.14	0.095	0.0
Final206_238	0.1202	0.3353	0.3018	0.1809	0.2982	0.3662	0.2899	0.483	0.1652	0.3334	0.3072	0.2768	0.594	0.1698	0.3486	0.2772	0.2676	0.2315	0.1739	0.126
Final206_238_Prop2SE	0.0034	0.0098	0.0086	0.0058	0.0088	0.011	0.011	0.014		0.0099	0.0091	0.0086	0.022	0.0051	0.0097	0.0085	0.0084	0.0076	0.0054	0.00
							-0.03762													
ErrorCorrelation_6_38vs7_35		0.33843	0.36548	0.29902	0.59403	0.6254		0.5446		0.72844	0.41509	0.43529		0.1611	0.65923		0.22823	0.40947	0.20645	0.1632
Concordance	44.9846	99.5192	92.0411	112.737	92.2106	92.8835	97.5	95.6309	98.4064	99.4635	101.232	101.942	100.134	95.2875	102.228	98.685	99.2208	97.8894	87.9354	92.427
FinalAge206_238	731	1863	1700	1071	1681	2010	1638	2539	988	1854	1726	1575	3000	1011	1927	1576	1528	1345	1035	76
FinalAge206_238_Prop2SE	20	47	43	32	44	51	55	60	29	48	45	43	88	28	47	43	43	41	29	2
FinalAge207_206	1625	1872	1847	950	1823	2164	1680	2655	1004	1864	1705	1545	2996	1061	1885	1597	1540	1374	1177	83
FinalAge207_206_Prop2SE	81	85	78	130	75	73	130	72	-		78	92		110		85	90	97	100	13
Final_U_Th_Ratio	0.806	2.248	2.52	1.756	1.024	1.302	1.105	1.895		2.734		1.433		1.503			0.865		0.704	0.52
			0.37	0.048	0.02	0.048	0.025	0.038	0.019	0.069	0.039	0.025	0.07	0.025	0.017	0.025	0.018	0.032	0.027	0.0
Final_U_Th_Ratio_Int2SE	0.019	0.038																		
Final_U_Th_Ratio_Int2SE Comments	PIO-120	PIO-121	1																	
Final_U_Th_Ratio_Int2SE Comments		PIO-121	2																	
Final_U_Th_Ratio_Int2SE Comments Final207_235	PIO-120 4.967	PIO-121																		
Final_U_Th_Ratio_Int2SE Comments Final207_235 Final207_235_Prop2SE	PIO-120 4.967 0.21	PIO-121 4.92 0.26	5																	
Final_U_Th_Ratio_Int2SE Comments Final207_235 Final207_235_Prop2SE Final206_238	PIO-120 4.967 0.21 0.3271	PIO-121 4.92 0.26 0.3204	4																	
Final_U_Th_Ratio_Int2SE Comments Final207_235 Final207_235_Prop2SE Final206_238 Final206_238_Prop2SE	PIO-120 4.967 0.21 0.3271 0.0098	PIO-121 4.92 0.20 0.3204 0.011	5 4																	
Final_U_Th_Ratio_Int2SE Comments Final207_235 Final206_235_Prop2SE Final206_238 Final206_238_Prop2SE ErrorCorrelation_6_38vs7_35	PIO-120 4.967 0.21 0.3271 0.0098	PIO-121 4.92 0.20 0.3204 0.011	5 4																	
Final_U_Th_Ratio_Int2SE Comments Final207_235 Final207_235_Prop2SE Final206_238 Final206_238_Prop2SE	PIO-120 4.967 0.21 0.3271 0.0098	PIO-121 4.92 0.26 0.3204 0.011 0.32592	5 4																	
Final_U_Th_Ratio_Int2SE Comments Final207_235 Final207_235_Prop2SE Final206_238 Final206_238_Prop2SE ErrorCorrelation_6_38vs7_35 Concordance	PIO-120 4.967 0.21 0.3271 0.0098 0.75285 102.878	PIO-121 4.92 0.26 0.3204 0.011 0.32592 101.527	5 4 2																	
Final_U_Th_Ratio_Int2SE Comments Final207_235 Final207_235 Final206_238_Prop2SE Final206_238_Prop2SE ErrorCorrelation_6_38vs7_35 Concordance FinalAge206_238	PIO-120 4.967 0.21 0.3271 0.0098 0.75285 102.878 1823	PIO-121 4.92 0.20 0.3204 0.011 0.32592 101.527 1795	2																	
Final_U_Th_Ratio_Int2SE Comments Final207_235_Prop2SE Final206_238 Final206_238 ErrorCorrelation_6_38vs7_35 Concordance Final4ge206_238 Final4ge206_238	PIO-120 4.967 0.21 0.3271 0.0098 0.75285 102.878 1823 48	PIO-121 4.92 0.20 0.3204 0.011 0.32592 101.527 1795	2																	
Final_U_Th_Batio_Int2SE Comments Final207_285_Prop2SE Final207_285_Prop2SE Final206_238_Prop2SE ErrorCorrelation_6_38v3_85 Concordance FinalAge206_238 FinalAge206_238 FinalAge207_206	PIO-120 4.967 0.21 0.3271 0.0098 0.75285 102.878 1823 48 1823 48	PIO-121 4.92 0.26 0.3204 0.3259 101.527 1795 55 1768	2 2 7 7 8																	
Final_U_Th_Batio_int2SE Comments Final207_235_Prop2SE Final206_238_prop2SE Final206_238_prop2SE ErrorCorrelation_6_38vs7_35 Concordance FinalAge206_238_Prop2SE FinalAge206_238_Prop2SE FinalAge207_206_prop2SE	PIO-120 4.967 0.21 0.3271 0.0098 0.75285 102.878 1823 48 1823 48 1772 75	PIO-121 4.92 0.26 0.3204 0.011 0.32592 101.527 1795 55 1768 0 100	2 2 7 7 8 8 2																	
Final_U_Th_Ratio_int2SE Comments Final207_235_Prop2SE Final207_235_Prop2SE Final206_238_Prop2SE ErrorCorrelation_6_38vs7_33 Concordance FinalAge206_238 FinalAge206_238 FinalAge207_206_Prop2SE FinalAge207_206_Prop2SE FinalAge207_206_Prop2SE	PIO-120 4.967 0.21 0.3271 0.0098 0.75285 102.878 1823 48 1772 75 8.44	PIO-121 4.92 0.20 0.3204 0.011 0.32592 101.527 1795 1768 1768 0.100	2 2 2 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3																	
Final_U_Th_Ratio_int2SE Comments Final207_235_Prop2SE Final207_235_Prop2SE Final206_238_Prop2SE ErrorCorrelation_6_38vs7_33 Concordance FinalAge206_238 FinalAge206_238 FinalAge207_206_Prop2SE FinalAge207_206_Prop2SE FinalAge207_206_Prop2SE	PIO-120 4.967 0.21 0.3271 0.0098 0.75285 102.878 1823 48 1823 48 1772 75	PIO-121 4.92 0.20 0.3204 0.011 0.32592 101.527 1795 1768 1768 0.100	2 2 2 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3																	
Final_U_Th_Batio_int23E Comments Final207_235_Prop25E Final206_238_Prop25E Final206_238_Prop25E ErrorCorrelation_6_38vs7_35 Concordance FinalAge206_238_Prop25E FinalAge206_238_Prop25E FinalAge207_206_Prop25E	PIO-120 4.967 0.21 0.3271 0.0098 0.75285 102.878 1823 48 1772 75 8.44	PIO-121 4.92 0.20 0.3204 0.011 0.32592 101.527 1795 1768 1768 0.100	2 2 2 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3																	

Table 4: Table 1: U-Pb data for Wallara-1 core sample, Pioneer sandstone.

Table 5: Table 1: U-Pb data for Wallara-	core sample, Areyonga formation.
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Comments	ARE-021	ARE-022	ARE-023	ARE-024	ARE-025	ARE-026	ARE-027	ARE-028	ARE-029	ARE-030	ARE-031	ARE-032	ARE-033	ARE-034	ARE-035	ARE-036	ARE-037	ARE-038	ARE-039	ARE-040
Final207_235	4.92	4.1	1.711	2.3	3.13	3.98	1.712	2.015	4.104	1.626	3.03	3.53	3.684	1.782	1.583	1.319	4.61	1.575	3.601	4.02
Final207_235_Prop2SE	0.21	0.19	0.081	0.13	0.17	0.18	0.077	0.088	0.17	0.07	0.18	0.18	0.16	0.087	0.072	0.068	0.21	0.065	0.16	0.23
Final206_238	0.314	0.296	0.1364	0.202	0.2485	0.2828	0.1625	0.1792	0.2935	0.1552	0.2226	0.2532	0.254	0.1702	0.1521	0.1339	0.2356	0.1426	0.2682	0.295
Final206_238_Prop2SE	0.0086	0.0093	0.0035	0.006	0.0065	0.0081	0.0039	0.0057	0.0083	0.0044	0.0064	0.0086	0.0067	0.006	0.0047	0.0038	0.0071	0.0043	0.0079	0.008
ErrorCorrelation_6_38vs7_35	0.52697	0.26951	0.481	0.45987	0.14556	0.5284	0.23239	0.24432	0.32647	0.5027	0.25118	0.76938	0.55263	0.39371	0.46076	0.09811	0.35791	0.54528	0.35642	0.1484
Concordance	95.5459	100.421	56.7103	94.8759	98.7569	95.933	88.4335	86.9067	100.852	83.4081	81.7551	88.114	85.1636	94.403	86.673	84.375	60.9298	74.7607	98.1398	101.33
FinalAge206_238	1759	1670	824	1185	1430	1604	971	1062	1658	930	1295	1453	1458	1012	917	810	1363	859	1530	1667
FinalAge206_238_Prop2SE	42	46	20	32	34	41	22	31	41	25	34	44	35	33	28	21	37	24	40	42
FinalAge207_206	1841	1663	1453	1249	1448	1672	1098	1222	1644	1115	1584	1649	1712	1072	1058	960	2237	1149	1559	1643
FinalAge207_206_Prop2SE	70	82	84	96	110	79	83	85	78	80	120	77	74	97	94	110	71	79	78	110
Final_U_Th_Ratio	1.607	1.76	1.042	2.104	1.62	1.47	2.479	3.442	1.598	3.46	1.026	1.341	0.958	1.053	1.474	1.99	1.635	1.513	1.261	0.5555
Comments	ARE-001	ARE-002	ARE-003	ARE-004	ARE-005	ARE-006	ARE-007	ARE-008	ARE-009	ARE-010	ARE-011	ARE-012	ARE-013	ARE-014	ARE-015	ARE-016	ARE-017	ARE-018	ARE-019	ARE-020
Final207_235	1.41	2.731	1.77	2.98	4.26	12.04	2.669	6.21	3.605	2.003	3.88	3.618	10.58	1.66	14.07	1.761	3.77	2.07	10.39	1.3
Final207_235_Prop2SE	0.062	0.13	0.13	0.14	0.21	0.87	0.11	0.33	0.15	0.083	0.19	0.16	0.42	0.067	0.55	0.07	0.18	0.16	0.44	0.06
Final206_238	0.1326	0.2172	0.1577	0.2267	0.2802	0.3448	0.213	0.316	0.2693	0.1726	0.2736	0.2626	0.4663	0.1652	0.5133	0.1674	0.2628	0.1648	0.4599	0.135
Final206_238_Prop2SE	0.0042	0.0058	0.0053	0.0065	0.0085	0.01	0.0064	0.012	0.0073	0.0045	0.0078	0.007	0.012	0.0041	0.014	0.0038	0.0076	0.0049	0.013	0.003
ErrorCorrelation_6_38vs7_35	0.68178	0.24775	-0.0457	0.2284	0.27062	0.73064	0.6352	0.36313	0.10259	0.38589	0.20759	0.34074	0.50547	0.24032	0.42683	0.2201	0.45916	0.34111	0.45625	0.3737
Concordance	70.8481	88.4777	72.4427	86.0131	89.9378	59.1261	88.3523	79.8825	98.6538	80.4706	94.2203	94.0513	98.7585	96.474	95.1837	93.5333	88.7249	69.2254	97.8715	90.586
FinalAge206_238	802	1267	949	1316	1591	1908	1244	1767	1539	1026	1565	1502	2466	985	2668	998	1503	983	2437	81
FinalAge206_238_Prop2SE	24	31	31	34	43	49	34	58	37	25	40	36	55	23	58	21	39	27	57	2
FinalAge207_206	1132	1432	1310	1530	1769	3227	1408	2212	1560	1275	1661	1597	2497	1021	2803	1067	1694	1420	2490	90
FinalAge207_206_Prop2SE	78	84	150	85	82	90	75	81	81	76	90	77	65	81	62	78	82	130	70	10
Final_U_Th_Ratio	3.17	3.06	2.022	1.203	1.169	1.274	1.46	0.81	1.061	1.745	0.943	0.766	1.567	5.85	1.875	5.733	1.485	1.124	0.718	1.06
Comments	ARE-101	ARE-102	ARE-103	ARE-104	ARE-105	ARE-106	ARE-107	ARE-108	ARE-109	ARE-110	ARE-111	ARE-112	ARE-113	ARE-114	ARE-115	ARE-116	ARE-117	ARE-118	ARE-119	ARE-120
Final207_235	21.56	2.274	3.678	3.26	2.105	1.626	2.92	5.84	4.63	4.821	4.65	3.372	1.892	9.38	3.855	2.5	4.419	4.219	3.72	5.8
Final207_235_Prop2SE	0.91	0.1	0.16	0.16	0.12	0.072	0.14	0.5	0.31	0.19	0.2	0.14	0.085	0.39	0.15	0.18	0.18	0.18	0.17	0.27
Final206_238	0.607	0.1957	0.2689	0.2515	0.1955	0.1568	0.2224	0.166	0.282	0.2652	0.3143	0.2591	0.1807	0.4278	0.2551	0.1872	0.3023	0.2862	0.2699	0.3349
Final206_238_Prop2SE	0.021	0.0059	0.0075	0.0079	0.0069	0.0045	0.0073	0.012	0.0079	0.0068	0.0086	0.0064	0.0047	0.011	0.0059	0.0061	0.0082	0.0085	0.0079	0.01
ErrorCorrelation 6 38vs7 35	0.68896	0.31197	0.43256	0.34238	0.356	0.42646	0.56668	0.24015	0.69257	0.46876	0.3726	0.21319	0.55925	0.4387	0.17053	0.10074	0.45678	0.46949	0.38892	0.37626
Concordance	95.0483	86.747	97.0272	98.6395	102.496	87.5116	85.234	30.4615	83.4637	71.577	100.114	97.8261	99.1667	94.7173	81.8792	71.2903	97.9287	91.7894	96.4375	92.4913
FinalAge206 238	3052	1152	1534	1450	1150	939	1293	990	1600	1516	1761	1485	1071	2295	1464	1105	1702	1621	1543	1860
FinalAge206_238_Prop2SE	83	32	38	42	37	25	38	65	40	35	42	33	26	51	30	33	40	43	39	49
FinalAge207 206	3211	1328	1581	1470	1122	1073	1517	3250	1917	2118	1759	1518	1080	2423	1788	1550	1738	1766	1600	2011
FinalAge207_206_Prop2SE	63	85	82	90	120	86	85	150	98	67	75	77	85	67	70	140	73	75	81	73
Final U Th Ratio	2.03	0.799	1.256	0.967	0.363	2.082	1.123	0.1572	1.041	1.621	1.134	1.563	2.185	1.455	1.032	1.09	1.432	1.007	1.144	1.438
Comments	ARE-081	ARE-082	ARE-083	ARE-084	ARE-085	ARE-086	ARE-087	ARE-088	ARE-089	ARE-090	ARE-091	ARE-092	ARE-093	ARE-094	ARE-095	ARE-096	ARE-097	ARE-098	ARE-099	ARE-100
Final207 235	3.15	1.677	16.3	2.214	3.24	4.78	3.57	2.209	1.324	3.46	3.62	4.02	1.434	2.044	1.551	3.82	2.739	10.11	1.557	15.34
Final207 235 Prop2SE	0.15	0.07	0.69	0.1	0.17	0.21	0.17	0.1	0.061	0.18	0.17	0.19	0.061	0.11	0.069	0.19	0.12	0.44	0.069	0.74
Final206_238	0.248	0.1622	0.566	0.1493	0.2082	0.3138	0.2488	0.1599	0.1249	0.224	0.2703	0.2838	0.1337	0.1659	0.1469	0.2765	0.1957	0.4398	0.1562	0.52
Final206 238 Prop2SE	0.0071	0.0043	0.017	0.0058	0.0079	0.0096	0.0075	0.005	0.0034	0.0067	0.0077	0.0089	0.0043	0.008	0.0041	0.0095	0.0064	0.013	0.0042	0.01
ErrorCorrelation 6 38vs7 35	0.44299	0.43674	0.7313	0.05507	0.81998	0.64989	0.61911	0.83134	0.12383	0.19571	0.49307	0.42236	0.64553	0.76746	0.50092	0.42904	0.70529	0.46038	0.47112	0.7003
Concordance	99.6508	89.5564	99.5858	51.6724	66.7215	97.3422	84.8754	59.601	69.0346	70.7993	101.64	98.595	70.6912	69.021	78.4889	96.5009	68.5119	93.6331	93.8755	93.440
FinalAge206_238	1427	969	2885	896	1217	1758	1431	956	758	1302	1549	1614	808	987	883	1572	1151	2353	935	272
FinalAge206 238 Prop2SE	36	24	70	32	42	47	39	28	20	35	39	46	25	45	23	48	34	60	23	65
FinalAge207_206	1432	1082	2897	1734	1824	1806	1686	1604	1098	1839	1524	1637	1143	1430	1125	1629	1680	2513	996	2913
FinalAge207_206_Prop2SE	90	82	64	110	68	75	82	70	93	100	85	82	80	78	85	93	71	68	82	6
Final_U_Th_Ratio	1.396	3.45	0.873	0.78	2.5	1.016	0.658	0.793	2.146	0.3653	1.614	1.127	3.056	1.08	1.361	0.752	1.13	1.449	1.536	2.12
Comments	ARE-061	ARE-062	ARE-063	ARE-064	ARE-065	ARE-066	ARE-067	ARE-068	ARE-069	ARE-070	ARE-071	ARE-072		ARE-074	ARE-075	ARE-076	ARE-077	ARE-078	ARE-079	ARE-080
Final207 235	5.24	1.585	5.65	2.639	1.6	4.017	1.93	2.457	4.24	3.24	3.457	1.345	1.755	2.062	1.384	4.1	2.558	1.795	1.9	6.47
Final207_235_Prop2SE	0.23	0.07	0.25	0.11	0.12	0.17	0.1	0.11	0.18	0.16	0.16	0.078	0.091	0.1	0.075	0.21	0.13	0.076	0.082	0.27
Final206_238	0.3139	0.1528	0.3263	0.2177	0.1367	0.2781	0.1687	0.1856	0.2922	0.2479	0.2497	0.1291	0.1711	0.1902	0.1353	0.2922	0.2136	0.1705	0.1768	0.3586
Final206_238_Prop2SE	0.01	0.004	0.011	0.0059	0.0061	0.0072	0.0049	0.0048	0.008	0.0073	0.0079	0.0059	0.0056	0.0058	0.0054	0.0094	0.0067	0.0052	0.0048	0.01
ErrorCorrelation_6_38vs7_35	0.64805	0.27636	0.62118	0.50015	0.75454	0.28634	0.18547	0.33108	0.59473	0.27483	0.30074	0.90019	0.76317	0.338	0.91466	0.29327	0.5433	0.52657	0.16483	0.62555
Concordance	89.2386	87.4046	89.6841	90.9677	65.3207	93.7722	79.4933	70.0511	96.1583	93.8199	88.4781	73.0589	96.6762	95.0847	80.2554	100.668	90.823	92.0145	92.2603	93.9553
FinalAge206_238	1758	916	1817	1269	825	1581	1004	1097	1652	1427	1436	781	1018	1122	817	1657	1247	1014	1049	1974
FinalAge206_238_Prop2SE	50	22	55	31	35	36	27	26	40	38	41	34	31	31	31	48	36	29	26	47
FinalAge207_206	1970	1048	2026	1395	1263	1686	1263	1566	1718	1521	1623	1069	1053	1180	1018	1646	1373	1102	1137	2101
FinalAge207_206_Prop2SE	71	89	73	76	88	76	90	83	72	94	85	74	81	100	75	99	88	84	86	69
Final U Th Ratio	1.318	1.097	1.061	1.43	0.691	0.892	1.907	0.4661	1.151	1.643	1.025	2.44	2.43	0.906	1.245	1.321	2.17	1.639	2.837	2.123
												ADD OF C	ADD OF C				ADE OFT			
Comments	ARE-041			ARE-044		ARE-046		ARE-048		ARE-050		ARE-052	ARE-053		ARE-055	ARE-056		ARE-058		ARE-060
Final207_235	2.523	2.125	1.602	1.649	2.081	1.688	1.69	1.938	1.919	1.534	1.576	12.73	5.52	5.32	9.89	2.98	3.38	1.703	1.574	3.659
Final207_235_Prop2SE	0.11	0.093	0.08	0.072	0.089	0.069	0.084	0.12	0.083	0.064	0.089	0.59	0.71	0.23	0.42	0.17	0.16	0.084	0.079	0.10
Final206_238	0.2114	0.1962	0.1638	0.1355	0.1844	0.1583	0.1689	0.1252	0.1787	0.1458	0.1561	0.449	0.264	0.3338	0.4366	0.215	0.2572	0.1709	0.1606	0.2715
Final206_238_Prop2SE	0.006	0.0053	0.0045	0.0043	0.0053	0.0042	0.0048	0.0068	0.005	0.0041	0.0049	0.014	0.012	0.009	0.011	0.0064	0.0086	0.0053	0.0049	0.007
ErrorCorrelation_6_38vs7_35		0.41775	0.29653	0.68913	0.48203	0.6253	0.18587	0.86096	0.54563	0.61291	0.03901	0.46984	0.86219	0.48934	0.60396	0.58546	0.3501	0.12027	0.2577	
Concordance	91.4878	98.3802	104.716	59.9854	88.7622	85.1619	98.2422	41.0367	93.634	79.5826	95.3061	82.8136	65.2814	97.4278	93.6597	79.4807	96.3399	103.462	98.359	99.7434
FinalAge206_238	1236	1154	977	823	1090	947	1006	760	1059	877	934	2390	1508	1856	2334	1255	1474	1016	959	1555
FinalAge206_238_Prop2SE	32	29	25	24	29	23	26	39	28	23	27	63	62	43	49	34	44	29	27	39
	1351	1173	933	1372	1228	1112	1024	1852	1131	1102	980	2886	2310	1905	2492	1579	1530	982	975	1559
FinalAge207_206																				
FinalAge207_206 FinalAge207_206_Prop2SE Final_U_Th_Ratio	73	87 1.606	100 1.692	74	83 1.28	76 0.718	100	74 0.872	86 1.991	79 2.015	130 1.561	70 0.808	150 1.092	70 3.205	62 0.909	95 2,423	81 0.949	110 1.232	99 1.239	0.822

Table 6: Table 1:	U-Pb data for BR05DD01	core sample, Areyonga formation.

Comments	ARE-001	ARE-002			ARE-005		ARE-007			ARE-010		ARE-012			ARE-015	ARE-016	ARE-017	ARE-018	ARE-019
Final207 235	1.592	2.621	2.13	1.943	2.589	3.57	1.64	2.073	2.225	2.07			1.004	2.462	3.144	3.83	3.63	0.958	0.96
Final207 235 Prop2SE	0.077	0.07	0.1	0.051	0.066	0.15	0.081	0.087	0.067	0.061			0.021	0.04	0.065	0.11	0.43	0.032	0.0
Final206 238	0.1594	0.2241	0.1895	0.1844	0.2188	0.2698	0.1625	0.1908	0.2029	0,1923			0.1135	0.1746		0,2903	0.2044	0.1118	0.115
Final206_238_Prop2SE	0.0056	0.0067	0.0066	0.006	0.0067	0.0094	0.0057	0.0063	0.0063	0.0061			0.0033	0.0052	0.0075	0.0089	0.008	0.0035	0.003
ErrorCorrelation 6 38vs7 35	0.007	0.19923	0.27528	0.5495	0.41725	0.40852	0.35091		0.425	0.42954	0.35387	0.35906	0.65853	0.41019	0.44927	0.28271	0.65517	0.36318	0.36565
Concordance	97.2449	101.48		99.1811	97.1059	99.0979	101.147		101.796					62.0958				108.241	
FinalAge206 238	953	1303	1118	1090	1275	1538	970	1125	1190	1133	922	871	693.2	1037	1380	1642	1198	683	702
FinalAge206 238 Prop2SE	31	35	36	33	36	48	32	34	34	33			19	28		44	43	20	21
FinalAge207_206	980	1284	1168	1099	1313	1552	959	1190	1169	1150	895	821	735	1670	1518	1527	1920	631	587
FinalAge207_206_Prop2SE	110	53	95	45	49	75	96	76	56	57	37	7 71	37	30	36	52	160	67	81
Final U Th Ratio	1.558	0.849	0.731	1.775	1.42	0.672	1.661	0.837	0.953	1.078	1.871	1.221	1.493	1.5	1.451	1.167	0.527	1.649	1.604
Comments			ARE-041 /									ARE-050				ARE-054		ARE-056	
Final207 235	4.516	1.748	2.52	1.025	1.067	15.28	0.989	2.367	2.173	2.159				3.93		2.387	2.253		no value
Final207 235 Prop2SE	0.085	0.066	0.17	0.042	0.022	0.3	0.06	0.086	0.081	0.064				0.1		0.064	0.078	0.064	
Final206 238	0.3142	0.1667	0.17	0.1146	0.1168	0.5482	0.1145	0.2097	0.1942					0.2827	0.2104	0.2126			no value
Final206 238 Prop2SE	0.01	0.0068	0.0064	0.0038	0.0034	0.0482	0.0041	0.2037	0.1342	0.2053				0.009		0.0065	0.0066	0.2049	
ErrorCorrelation 6 38vs7 35	0.55763	0.61337	0.35875	0.1624	0.57719	0.68471	0.08218							0.30058				0.53819	
Concordance	102.147	86.1111	58.3718		86.8537	99.6468	95.7534	102.244	90.3557					99.8138		101.803			#VALUE!
	102.147	992	1011	699	712.2	2821	699	102.244	1143	100.255			1451	1608		1242	1168		no value
FinalAge206_238	50	38	36	22	20	73	24	39	39	34				47		34	36		NAN
FinalAge206_238_Prop2SE	1723	1152	1732	749		2831	730	1203		1123			1517	1611	1213	1220			
FinalAge207_206	34			97	820				1265	58							1207		no value
FinalAge207_206_Prop2SE		55	97		37	23	130	74	75				30	55		48	71		NAN
Final_U_Th_Ratio	1.56	2.066	2.147	1.134	1.283	1.946	0.994	0.657	0.587	0.713			120100000	0.971	0.734	3.262	1.482		no value
Comments												ARE-031							
Final207_235	2.269	4.321	2.37	2.06	3.95	8.58	3.57	1.007	2.419	2.176				1.008	1.98	3.75	1.672	4.33	2.184
Final207_235_Prop2SE	0.091	0.078	0.11	0.1	0.58	0.18	0.1	0.034	0.063	0.039				0.029		0.1	0.046	0.19	0.074
Final206_238	0.2017	0.3031	0.2056	0.1959	0.2164	0.4289	0.2745							0.1134			0.1653	0.2993	0.1983
Final206_238_Prop2SE	0.0064	0.0099	0.0073	0.007	0.011	0.014		0.0038					0.0049	0.0034		0.0086	0.0051	0.011	0.0066
ErrorCorrelation_6_38vs7_35	0.51146	0.58345		0.38798	0.84283	0.62811						0.38202		0.52751		0.2405		0.3741	
Concordance	95.4839	101.246		100.524	66.2632									92.5234				98.309	
FinalAge206_238	1184	1706	1204	1152	1259	2299	1563	704	1217					693	1131	1532	986	1686	1165
FinalAge206_238_Prop2SE	35	49	39	38	56	62		22						20		44	28	52	
FinalAge207_206	1240	1685	1260	1146	1900	2300	1505	715	1305				1130	749		1644	1013	1715	1181
FinalAge207_206_Prop2SE	69	37	89	93	190	33	50	82						53	67	54	54	75	68
Final_U_Th_Ratio	2.225	2.62	1.321	0.743	0.6609	1.393	1.281	1.112	0.932	0.918	1.86	1 2.056	2.626	1.003	1.498	0.611	2.675	1.127	0.758
Comments	ARE-058	ARE-05	ARE-060	0 ARE-06	1 ARE-0	62 ARE-	063 ARE-	064 ARE-	065 ARE	-066 AR	E-067 AF	RE-068							
Final207_235	2.274	2.23	4 10.7	9 1.9	99 4.	.93 2.	118	3.86	3.79	3.86	2.17	2.215							
Final207 235 Prop2SE	0.06	0.04	2 0.	2 0.1	1 0.	17 0.	051	0.12	0.11	0.14	0.1	0.054							
Final206 238	0.2053	0.203	7 0.467	8 0.188	38 0.32	69 0.	198 0.2	2838 0.3	2794 0	2862 0	.2036	0.2053							
Final206 238 Prop2SE	0.006											0.0064							
ErrorCorrelation 6 38vs7 35												.35183							
Concordance	100.66											03.173							
FinalAge206 238	100.00								1587	1626	1194	1203							
FinalAge206_238_Prop2SE	3					56	34	44	45	48	39	34							
FinalAge207_206	1193								1586	1560	1070	1166							
FinalAge207_206_Prop2SE	63			7		64	43	56	46	62	100	51							
Final_U_Th_Ratio	1.38	5 1.71	0.75	3 1.01	1.4	66 1.	227 1.	.309 1	.301	0.532	1.317	0.9							

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Comments		ARE021
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 | | | ARE032
 | | ARE034 |
 | | | ARE038
 |
| Final207_235 | 1.7 | 5 | 3.85
 | 3.82 | 4.04 | 2.123
 | 1.549 | 12.92 | 1.961 | 4.06
 | | 3.827 | 3.78
 | 3.77 | 1.943 | 3.759
 | 11.82 | 3.87 | 1.495
 |
| Final207_235_Prop2SE | 0.11 | 0.19 | 0.19
 | 0.17 | 0.16 | 0.11
 | 0.064 | 0.49 | 0.074 | 0.17
 | 0.13 | 0.15 | 0.21
 | 0.17 | 0.072 | 0.15
 | 0.48 | 0.17 | 0.061
 |
| Final206_238 | 0.1638 | 0.3262 | 0.2803
 | 0.2817 | 0.297 | 0.1984
 | 0.1547 | 0.5171 | 0.1858 | 0.2864
 | 0.2662 | 0.2878 | 0.2749
 | 0.2754 | 0.1849 | 0.2767
 | 0.4771 | 0.2823 | 0.1547
 |
| Final206_238_Prop2SE | 0.005 | 0.006 | 0.007
 | 0.007 | 0.0054 | 0.0039
 | 0.0028 | 0.0096 | 0.0035 | 0.0064
 | 0.0049 | 0.0057 | 0.0078
 | 0.0055 | 0.0032 | 0.0059
 | 0.0084 | 0.0059 | 0.0031
 |
| ErrorCorrelation_6_38vs7_35 | 0.1385 | 0.3926 | 0.3583
 | 0.0491 | 0.3495 | 0.1376
 | 0.1643 | 0.5639 | 0.4423 | 0.2906
 | 0.485 | 0.6737 | 0.5088
 | 0.434 | 0.4519 | 0.5532
 | 0.5936 | 0.3411 | 0.4557
 |
| Concordance | 93.942 | 100.55 | 100.38
 | 101.07 | 106.07 | 107.26
 | 93.542 | 101.36 | 101.57 | 98.006
 | | 103.81 |
 | 100.51 | 98.115 | 102.14
 | 94.938 | 98.828 | 100.98
 |
| FinalAge206_238 | 977 | 1819 | 1592
 | 1599 | 1678 | 1167
 | 927 | 2685 | 1100 | 1622
 | 1521 | 1633 | 1572
 | 1567 | 1093 | 1577
 | 2513 | 1602 | 927
 |
	28	
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 | | | |
 | | |
 | | |
 | | | 17
 |
| FinalAge206_238_Prop2SE | | 29 | 35
 | 35 | 26 | 21
 | 16 | 41 | 19 | 32
 | | 29 |
 | 28 | 17 | 29
 | 37 | 30 |
 |
| FinalAge207_206 | 1040 | 1809 | 1586
 | 1582 | 1582 | 1088
 | 991 | 2649 | 1083 | 1655
 | 1479 | 1573 | 1566
 | 1559 | 1114 |
 | 2647 | 1621 | 918
 |
| FinalAge207_206_Prop2SE | 130 | 59 | 90
 | 79 | 66 | 100
 | 76 | 55 | 64 | 75
 | | 63 |
 | 73 | 69 |
 | 57 | 75 | 72
 |
| Approx_Pb_PPM | 98 | 2615 | 426
 | 346 | 540 | 616
 | 275.4 | 1048 | 358 | 550
 | 964 | 1130 | 507
 | 377 | 370 | 1112
 | 1076 | 437 | 600
 |
| Approx_Pb_PPM_Int2SE | 5.2 | 50 | 22
 | 14 | 14 | 27
 | 8.9 | 30 | 14 | 19
 | 29 | 49 | 19
 | 14 | 16 | 32
 | 29 | 14 | 20
 |
| Final_U_Th_Ratio | 1.438 | 0.5817 | 1.054
 | 1.186 | 2.064 | 0.727
 | 2.663 | 0.967 | 4.887 | 0.888
 | 1.33 | 1.175 | 1.37
 | 1.463 | 5.54 | 1.111
 | 0.5825 | 1.452 | 2.312
 |
| Final_U_Th_Ratio_Int2SE | 0.027 | 0.007 | 0.023
 | 0.022 | 0.031 | 0.01
 | 0.038 | 0.012 | 0.065 | 0.012
 | 0.021 | 0.027 | 0.026
 | 0.026 | 0.24 | 0.024
 | 0.0075 | 0.018 | 0.034
 |
| | | | 1
 | | | |
 | | | |
 | 1 | |
 | | |
 | | | 1
 |
| Comments | ARE001 | ARE002 |
 | ARE004 | ARE005 | ARE006
 | ARE007 | ARE008 | _ | ARE010
 | ARE011 | ARE012 | ARE013
 | ARE014 | ARE015 | ARE016
 | ARE017 | ARE018 | ARE019
 |
| Final207_235 | 1.98 | 1.595 | 3.85
 | 3.79 | 3.972 | 4.617
 | 4.699 | 3.6 | 3.548 | 4.299
 | 4.323 | 4.23 | 3.687
 | 5.28 | 3.741 | 4.66
 | 5.16 | 5.61 | 3.822
 |
| Final207_235_Prop2SE | 0.078 | 0.079 | 0.16
 | 0.21 | 0.15 | 0.17
 | 0.18 | 0.16 | 0.14 | 0.17
 | 0.17 | 0.18 | 0.15
 | 0.2 | 0.16 | 0.19
 | 0.2 | 0.24 | 0.15
 |
| Final206_238 | 0.1848 | 0.1611 | 0.279
 | 0.2903 | 0.2857 | 0.3093
 | 0.3129 | 0.2662 | 0.2538 | 0.2874
 | 0.2944 | 0.2989 | 0.2726
 | 0.3351 | 0.2737 | 0.3042
 | 0.3124 | 0.3473 | 0.2789
 |
| Final206_238_Prop2SE | 0.0033 | 0.004 | 0.006
 | 0.0078 | 0.0048 | 0.0052
 | 0.0058 | 0.0058 | 0.0045 | 0.0051
 | 0.0051 | 0.0064 | 0.0052
 | 0.0061 | 0.0057 | 0.006
 | 0.0057 | 0.0082 | 0.0056
 |
| ErrorCorrelation_6_38vs7_35 | 0.533 | 0.373 | 0.3715
 | 0.1463 | 0.4157 | 0.5732
 | 0.5554 | 0.2483 | 0.5543 | 0.5494
 | 0.4272 | 0.5141 | 0.4991
 | 0.4933 | 0.4276 | 0.3973
 | 0.7161 | 0.3435 | 0.4378
 |
| 21 102 | 96.811 | 99.38 | 101.15
 | 110.05 | 99.938 | 99.2
 | 98.928 | 95.731 | 89.059 | 92.711
 | 96.072 | 101.26 | 1.
 | 99.786 | 97.316 |
 | 89.297 | 101.32 |
 |
Concordance		
 | | |
 | | | |
 | | |
 | | | 95.267
 | | | 100
 |
| FinalAge206_238 | 1093 | 962 | 1585
 | 1642 | 1620 | 1736
 | 1754 | 1525 | 1457 | 1628
 | 1663 | 1685 | 1554
 | 1862 | 1559 | 1711
 | 1752 | 1920 | 1585
 |
| FinalAge206_238_Prop2SE | 18 | 23 | 30
 | 39 | 24 | 26
 | 29 | 30 | 23 | 26
 | 25 | 32 | 26
 | 30 | 29 | 30
 | 28 | 39 | 28
 |
| FinalAge207_206 | 1129 | 968 | 1567
 | 1492 | 1621 | 1750
 | 1773 | 1593 | 1636 | 1756
 | 1731 | 1664 | 1597
 | 1866 | 1602 | 1796
 | 1962 | 1895 | 1585
 |
| FinalAge207_206_Prop2SE | 71 | 94 | 70
 | 100 | 64 | 60
 | 62 | 75 | 62 | 58
 | 60 | 64 | 68
 | 59 | 69 | 68
 | 55 | 71 | 63
 |
| Approx_Pb_PPM | 372 | 513 | 604
 | 367 | 1596 | 821
 | 1229 | 552 | 1300 | 1465
 | 1237 | 1259 | 908
 | 589 | 577 | 924
 | 1465 | 272 | 819
 |
| Approx_Pb_PPM_Int2SE | 17 | 15 | 16
 | 21 | 37 | 29
 | 30 | 24 | 64 | 30
 | 33 | 54 | 34
 | 16 | 26 | 23
 | 31 | 13 | 17
 |
| Final U Th Ratio | 3.844 | 0.888 | 1.405
 | 1.115 | 0.891 | 2.296
 | 1.027 | 1.209 | 0.854 | 1.134
 | 0.787 | 0.696 | 1.053
 | 1.65 | 1.219 | 0.797
 | 1.277 | 1.437 | 1.55
 |
| | 0.073 | | 0.023
 | 0.021 | 0.012 | 0.041
 | 0.012 | 0.022 | - | 0.015
 | 0.787 | 0.090 | 0.014
 | 0.022 | 0.041 |
 | 0.022 | 0.027 | 0.02
 |
Final_U_Th_Ratio_Int2SE	-	0.013
 | - | |
 | | | 0.02 |
 | | - |
 | - | | 0.014
 | | |
 |
| Comments | ARE096 | ARE097 | ARE098
 | ARE099 | ARE100 | ARE101
 | ARE102 | ARE103 | ARE104 | ARE105
 | ARE106 | ARE107 | ARE108
 | ARE109 | ARE110 | ARE111
 | ARE112 | ARE113 | ARE114 A
 |
| Final207_235 | 4.15 | 1.944 | 3.97
 | 3.376 | 3.946 | 3.853
 | 3.872 | 2.711 | 3.92 | 1.85
 | 3.9 | 7.17 | 14.61
 | 3.814 | 4.5 | 5.36
 | 4.31 | 2.426 | 3.79
 |
| Final207_235_Prop2SE | 0.2 | 0.08 | 0.16
 | 0.12 | 0.16 | 0.16
 | 0.16 | 0.11 | 0.17 | 0.1
 | 0.21 | 0.28 | 0.58
 | 0.14 | 0.19 | 0.2
 | 0.17 | 0.11 | 0.16
 |
| Final206_238 | 0.2934 | 0.189 | 0.2838
 | 0.2397 | 0.287 | 0.2777
 | 0.2828 | 0.2284 | 0.2891 | 0.1751
 | 0.242 | 0.3885 | 0.542
 | 0.2809 | 0.3075 | 0.3261
 | 0.2865 | 0.2198 | 0.2787
 |
| Final206_238_Prop2SE | 0.0055 | 0.0034 | 0.0073
 | 0.0037 | 0.0066 | 0.0053
 | 0.0054 | 0.0047 | 0.0046 | 0.0042
 | 0.013 | 0.0078 | 0.014
 | 0.0047 | 0.0059 | 0.0065
 | 0.0077 | 0.0055 | 0.0057
 |
| ErrorCorrelation 6 38vs7 35 | | 0.4243 | 0.4443
 | 0.3819 | 0.7573 | 0.3649
 | 0.4894 | 0.2962 | 0.1425 | 0.0808
 | 0.869 | 0.8531 |
 | 0.4757 | 0.4893 | 0.6714
 | 0.5085 | 0.1813 | 0.3278
 |
| | | |
 | - | |
 | | | - |
 | - | - |
 | | |
 | - | |
 |
| Concordance | 101.28 | 105.39 | 99.199
 | 83.838 | 101.37 | 97.169
 | 100.63 | 98.808 | 102.76 |
 | 72.689 | 97.781 | 99.857
 | 100.82 | 100.76 | 93.615
 | 92.002 | 108.38 | 98.446
 |
| FinalAge206_238 | 1658 | 1115 | 1609
 | 1385 | 1625 | 1579
 | 1605 | 1326 | 1637 | 1040
 | 1392 | 2115 | 2787
 | 1598 | 1728 | 1818
 | 1622 | 1280 | 1584
 |
 | | |
 | | | |
 | | |
 | | |
 | | |
 |
| FinalAge206_238_Prop2SE | 27 | 19 | 37
 | 19 | 33 | 27
 | 27 | 25 | 23 | 23
 | 69 | 37 | 59
 | 23 | 29 | 32
 | 39 | 29 | 29
 |
| FinalAge206_238_Prop2SE
FinalAge207_206 | 27
1637 | 19
1058 | 37
1622
 | 19
1652 | 33
1603 | 1625
 | 27
1595 | 25
1342 | 1593 | 1120
 | 1915 | 2163 | 2791
 | 1585 | 1715 | 32
1942
 | 1763 | 1181 | 1609
 |
| | | |
 | | |
 | | | | -
 | 0.000 | |
 | | |
 | | | 2010 2010
 |
| FinalAge207_206
FinalAge207_206_Prop2SE | 1637
84 | 1058
75 | 1622
70
 | 1652 | 1603
65 | 1625
69
 | 1595
66 | 1342
69 | 1593
74 | 1120
120
 | 1915
61 | 2163 | 2791
54
 | 1585
59 | 1715 | 1942
 | 1763
62 | 1181
83 | 1609
75
 |
| FinalAge207_206
FinalAge207_206_Prop2SE
Approx_Pb_PPM | 1637
84
442 | 1058
75
231 | 1622
70
634
 | 1652
59
1779 | 1603
65
619 | 1625
69
582
 | 1595
66
982 | 1342
69
958 | 1593
74
488 | 1120
120
230.4
 | 1915
61
1898 | 2163
55
747 | 2791
54
615
 | 1585
59
1450 | 1715
69
274 | 1942
55
914
 | 1763
62
674 | 1181
83
439 | 1609
75
858
 |
| FinalAge207_206
FinalAge207_206_Prop2SE
Approx_Pb_PPM
Approx_Pb_PPM_Int2SE | 1637
84
442
17 | 1058
75
231
10 | 1622
70
634
21
 | 1652
59
1779
45 | 1603
65
619
23 | 1625
69
582
14
 | 1595
66
982
30 | 1342
69
958
26 | 1593
74
488
16 | 1120
120
230.4
9.6
 | 1915
61
1898
76 | 2163
55
747
28 | 2791
54
615
20
 | 1585
59
1450
42 | 1715
69
274
10 | 1942
55
914
24
 | 1763
62
674
22 | 1181
83
439
17 | 1609
75
858
38
 |
| FinalAge207_206
FinalAge207_206_Prop2SE
Approx_Pb_PPM
Approx_Pb_PPM_Int2SE
Final_U_Th_Ratio | 1637
84
442
17
1.488 | 1058
75
231
10
3.628 | 1622
70
634
21
1.639
 | 1652
59
1779
45
0.902 | 1603
65
619
23
2.341 | 1625
69
582
14
1.27
 | 1595
66
982
30
1.476 | 1342
69
958
26
2.326 | 1593
74
488
16
1.239 | 1120
120
230.4
9.6
1.221
 | 1915
61
1898
76
0.816 | 2163
55
747
28
4.42 | 2791
54
615
20
1.695
 | 1585
59
1450
42
1.405 | 1715
69
274
10
2.471 | 1942
55
914
24
2.321
 | 1763
62
674
22
2.27 | 1181
83
439
17
1.417 | 1609
75
858
38
0.77
 |
| FinalAge207_206
FinalAge207_206_Prop2SE
Approx_Pb_PPM
Approx_Pb_PPM_Int2SE | 1637
84
442
17 | 1058
75
231
10 | 1622
70
634
21
 | 1652
59
1779
45 | 1603
65
619
23 | 1625
69
582
14
 | 1595
66
982
30 | 1342
69
958
26 | 1593
74
488
16 | 1120
120
230.4
9.6
 | 1915
61
1898
76 | 2163
55
747
28 | 2791
54
615
20
 | 1585
59
1450
42 | 1715
69
274
10 | 1942
55
914
24
 | 1763
62
674
22 | 1181
83
439
17 | 1609
75
858
38
 |
| FinalAge207_206
FinalAge207_206_Prop2SE
Approx_Pb_PPM
Approx_Pb_PPM_Int2SE
Final_U_Th_Ratio | 1637
84
442
17
1.488 | 1058
75
231
10
3.628
0.058 | 1622
70
634
21
1.639
0.084
 | 1652
59
1779
45
0.902 | 1603
65
619
23
2.341
0.037 | 1625
69
582
14
1.27
 | 1595
66
982
30
1.476
0.026 | 1342
69
958
26
2.326 | 1593
74
488
16
1.239
0.018 | 1120
120
230.4
9.6
1.221
 | 1915
61
1898
76
0.816 | 2163
55
747
28
4.42 | 2791
54
615
20
1.695
0.097
 | 1585
59
1450
42
1.405 | 1715
69
274
10
2.471 | 1942
55
914
24
2.321
 | 1763
62
674
22
2.27
0.17 | 1181
83
439
17
1.417
0.024 | 1609
75
858
38
0.77
 |
| FinalAge207_206
FinalAge207_206_Prop2SE
Approx_Pb_PPM
Approx_Pb_PPM_Int2SE
Final_U_Th_Ratio
Final_U_Th_Ratio_Int2SE | 1637
84
442
17
1.488
0.023 | 1058
75
231
10
3.628
0.058 | 1622
70
634
21
1.639
0.084
 | 1652
59
1779
45
0.902
0.016 | 1603
65
619
23
2.341
0.037 | 1625
69
582
14
1.27
0.016
 | 1595
66
982
30
1.476
0.026 | 1342
69
958
26
2.326
0.047 | 1593
74
488
16
1.239
0.018 | 1120
120
230.4
9.6
1.221
0.023
 | 1915
61
1898
76
0.816
0.077 | 2163
55
747
28
4.42
0.14 | 2791
54
615
20
1.695
0.097
 | 1585
59
1450
42
1.405
0.019 | 1715
69
274
10
2.471
0.042 | 1942
55
914
24
2.321
0.061
 | 1763
62
674
22
2.27
0.17 | 1181
83
439
17
1.417
0.024 | 1609
75
858
38
0.77
0.016
 |
| FinalAge207_206
FinalAge207_206_Prop25E
Approx_Pb_PPM
Approx_Pb_PPM_Int25E
Final_U_Th_Ratio
Final_U_Th_Ratio_Int25E
Comments
Final207_235 | 1637
84
442
17
1.488
0.023
ARE077 | 1058
75
231
10
3.628
0.058
ARE078 | 1622
70
634
21
1.639
0.084
ARE079
 | 1652
59
1779
45
0.902
0.016
ARE080 | 1603
65
619
23
2.341
0.037
ARE081 | 1625
69
582
14
1.27
0.016
ARE082
 | 1595
66
982
30
1.476
0.026
ARE083 | 1342
69
958
26
2.326
0.047
ARE084 | 1593
74
488
16
1.239
0.018
ARE085 | 1120
120
230.4
9.6
1.221
0.023
ARE086
 | 1915
61
1898
76
0.816
0.077
ARE087 | 2163
55
747
28
4.42
0.14
ARE088 | 2791
54
615
20
1.695
0.097
ARE089
 | 1585
59
1450
42
1.405
0.019
ARE090 | 1715
69
274
10
2.471
0.042
ARE091 | 1942
55
914
24
2.321
0.061
ARE092
 | 1763
62
674
22
2.27
0.17
ARE093 | 1181
83
439
17
1.417
0.024
ARE094 | 1609
75
858
38
0.77
0.016
ARE095
 |
| FinalAge207_206 FinalAge207_206_Prop2SE Approx_Pb_PPM Approx_Pb_PPM_Int2SE Final_U_Th_Ratio Final_U_Th_Ratio_Int2SE Comments Final207_235 Final207_235_Prop2SE | 1637
84
442
17
1.488
0.023
ARE077
3.76
0.25 | 1058
75
231
10
3.628
0.058
ARE078
3.52
0.15 | 1622
70
634
21
1.639
0.084
ARE079
4.82
0.2
 | 1652
59
1779
45
0.902
0.016
ARE080
2.009
0.08 | 1603
65
619
23
2.341
0.037
ARE081
5.014
0.19 | 1625
69
582
14
1.27
0.016
ARE082
3.91
0.16
 | 1595
66
982
30
1.476
0.026
ARE083
1.938
0.074 | 1342
69
958
26
2.326
0.047
ARE084
3.372
0.14 | 1593
74
488
16
1.239
0.018
ARE085
1.881
0.089 | 1120
120
230.4
9.6
1.221
0.023
ARE086
2.306
0.1
 | 1915
61
1898
76
0.816
0.077
ARE087
3.75
0.16 | 2163
55
747
28
4.42
0.14
ARE088
4.12
0.17 | 2791
54
615
20
1.695
0.097
ARE089
5.86
0.24
 | 1585
59
1450
42
1.405
0.019
ARE090
4.13
0.18 | 1715
69
274
10
2.471
0.042
ARE091
3.548
0.14 | 1942
55
914
2.321
0.061
ARE092
4.481
0.17
 | 1763
62
674
22
2.27
0.17
ARE093
3.97
0.26 | 1181
83
439
17
1.417
0.024
ARE094
3.882
0.14 | 1609
75
858
38
0.77
0.016
ARE095
4.15
0.2
 |
| FinalAge207_206
FinalAge207_206_Prop2SE
Approx_Pb_PPM
Approx_Pb_PPM_Int2SE
Final_U_Th_Ratio_Int2SE
Final_U_Th_Ratio_Int2SE
Comments
Final207_235
Final207_235
Final206_238 | 1637
84
442
17
1.488
0.023
ARE077
3.76
0.25
0.234 | 1058
75
231
10
3.628
0.058
ARE078
3.52
0.15
0.2563 | 1622
70
634
21
1.639
0.084
ARE079
4.82
0.2
0.3242
 | 1652
59
1779
45
0.902
0.016
ARE080
2.009
0.08
0.1932 | 1603
65
619
23
2.341
0.037
ARE081
5.014
0.19
0.3169 | 1625
69
582
14
1.27
0.016
ARE082
3.91
0.16
0.2849
 | 1595
66
982
30
1.476
0.026
ARE083
1.938
0.074
0.1806 | 1342
69
958
26
2.326
0.047
ARE084
3.372
0.14
0.2638 | 1593
74
488
16
1.239
0.018
ARE085
1.881
0.089
0.1837 | 1120
120
230.4
9.6
1.221
0.023
ARE086
2.306
0.1
0.2103
 | 1915
61
1898
76
0.816
0.077
ARE087
3.75
0.16
0.2771 | 2163
55
747
28
4.42
0.14
ARE088
4.12
0.17
0.2973 | 2791
54
615
20
1.695
0.097
ARE089
5.86
0.24
0.3196
 | 1585
59
1450
42
1.405
0.019
ARE090
4.13
0.18
0.2693 | 1715
69
274
10
2.471
0.042
ARE091
3.548
0.14
0.2723 | 1942
55
914
2.321
0.061
ARE092
4.481
0.17
0.2976
 | 1763
62
674
22
2.27
0.17
ARE093
3.97
0.26
0.287 | 1181
83
439
17
1.417
0.024
ARE094
3.882
0.14
0.2732 | 1609
75
858
38
0.77
0.016
ARE095
4.15
0.2
0.2896
 |
| FinalAge207_206 FinalAge207_206_Prop2SE Approx Pb_PPM Approx Pb_PPM_Int2SE Final_U_Th_Ratio Final_U_Th_Ratio Final207_235 Final207_235 Final207_235 Final206_238 Final206_238_Prop2SE | 1637
84
442
17
1.488
0.023
ARE077
3.76
0.25
0.234
0.013 | 1058
75
231
10
3.628
0.058
ARE078
3.52
0.15
0.2563
0.0069 | 1622
70
634
21
1.639
0.084
ARE079
4.82
0.2
0.3242
0.3242
0.0062
 | 1652
59
1779
45
0.902
0.016
ARE080
2.009
0.08
0.1932
0.0031 | 1603
65
619
23
2.341
0.037
ARE081
5.014
0.19
0.3169
0.007 | 1625
69
582
14
1.27
0.016
ARE082
3.91
0.16
0.2849
0.0061
 | 1595
66
982
30
1.476
0.026
ARE083
1.938
0.074
0.1806
0.0033 | 1342
69
958
26
2.326
0.047
ARE084
3.372
0.14
0.2638
0.0059 | 1593
74
488
16
1.239
0.018
ARE085
1.881
0.089
0.1837
0.0036 | 1120
120
230.4
9.6
1.221
0.023
ARE086
2.306
0.1
0.2103
0.0049
 | 1915
61
1898
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Table 7: U-Pb data for MacDonnell Ranges sample, Areyonga formation.

Mohammed Al-Ghafri The Age and Sediments Source of the Amadeus Basin Cryogenian-Ediacaran Stratigraphy

Comments	ARE039	AREO40	ARE041	ARE042	ARE043	ARE044	ARE045	ARE046	ARE047	ARE048	ARE049	ARE050	ARE051	ARE052	ARE053	ARE054	ARE055	ARE056	ARE057
Final207 235	4.804	2.288	3.697	3.153	3.812	3.083	1.609	4.114	1.544	3.68	5.32	4.035	8.59	4.729	3.291	2.876	4.47	5.07	2.11
Final207_235_Prop2SE	0.17	0.12	0.15	0.13	0.16	0.13	0.067	0.16	0.084	0.16	0.21	0.15	0.32	0.18	0.14	0.12	0.22	0.18	0.16
Final206_238	0.3176	0.2113	0.2768	0.2534	0.275	0.2179	0.1584	0.2886	0.1638	0.2726	0.3367	0.2787	0.4058	0.3172	0.2155	0.2365	0.2817	0.3276	0.1931
Final206_238_Prop2SE	0.0054	0.0044	0.0048	0.0051	0.0068	0.0061	0.0037	0.0056	0.0039	0.0055	0.0066	0.0045	0.0086	0.0056	0.0059	0.0046	0.008	0.005	0.007
ErrorCorrelation_6_38vs7_35	0.4391	0.212	0.4299	0.3758	0.2793	0.6269	0.5597	0.3181	0.3131	0.4544	0.5754	0.4877	0.612	0.502	0.7847	0.531	0.4137	0.5271	0.1709
Concordance	100.06	105.74	101.68	102.03	96.308	77.771	93.769	96.858	114.49	97.981	98.266	92.903	93.124	101.6	68.726	98.987	85.235	100.88	97.179
FinalAge206_238	1778	1235	1578	1458	1565	1270	948	1634	980	1553	1870	1584	2194	1778	1257	1368	1599	1826	1137
FinalAge206_238_Prop2SE	27	24	25	27	34	32	21	28	22	28	32	23	39	27	31	24	40	25	38
FinalAge207_206	1777	1168	1552	1429	1625	1633	1011	1687	856	1585	1903	1705	2356	1750	1829	1382	1876	1810	1170
FinalAge207_206_Prop2SE	58	100	66	72	74	70	73	67	100	73	61	63	53	60	58	72	70	56	160
Approx_Pb_PPM	1049	7.5	1125	762	317	1533	1055	613	807	568	1944	1221	1132	823	2730	1079	975	488	446
Approx_Pb_PPM_Int2SE	22	1.9	45	23	10	61	28	41	23	21	45	55	29	19	110	28	31	15	23
Final_U_Th_Ratio	1.893	110	0.984	1.545	1.551	0.996	1.436	1.782	0.5033	1.34	0.638	0.815	1.948	1.868	0.934	1.075	1.005		0.3497
Final_U_Th_Ratio_Int2SE	0.034	16	0.026	0.028	0.025	0.033	0.037	0.03	0.0088	0.034	0.01	0.012	0.06	0.023	0.04	0.018	0.035	0.071	0.0068
Comments	ARE115	ARE116	ARE117	ARE118	ARE11	9 ARE120	0												
Final207_235	4.01	3.69	20.04	3.869	4.0	5 3.87	6												
Final207_235_Prop2SE	0.18	0.15	0.71	0.14	0.1	7 0.1	4												
Final206_238	0.2632	0.2763	0.6034	0.2812	0.289	6 0.278	9												
Final206_238_Prop2SE	0.0061	0.0051	0.0099	0.0049	0.006	1 0.005	2												
ErrorCorrelation_6_38vs7_3	0.5095	0.4212	0.6123	0.4428	0.249	1 0.306	9												
Concordance	82.829	101.35	97.845	98.277	99.63	6 97.47	8												
FinalAge206_238	1505	1575	3042	1597	164	2 158	5												
FinalAge206_238_Prop2SE	31	27	40	25	5 3	0 2	6												
FinalAge207_206	1817	1554	3109	1625	164	8 162	6												
FinalAge207_206_Prop2SE	71	65	47	61	6	7 6	5												
Approx_Pb_PPM	1241	999	2987	2116	105	3 112	9												
Approx_Pb_PPM_Int2SE	55	5 25	68	48	3 3	7 5	2												
Final_U_Th_Ratio	0.823	1.416	0.5186	0.985	0.65	4 1.07	4												
Final_U_Th_Ratio_Int2SE	0.019	0.021	0.0098	0.013	0.0	1 0.01	4												

Comments	JohnCW-001	JohnCW-002	JohnCW-003	JohnCW-004	JohnCW-005	JohnCW-006	JohnCW-007	JohnCW-008	JohnCW-009	JohnCW-010	JohnCW-011
Final207_235	1.71	1.862	46.5	1.869	2.065	4.06	5.225	2.48	1.825	5.29	1.676
Final207_235_Prop2SE	0.074	0.081	2	0.083	0.093	0.17	0.21	0.17	0.079	0.25	0.076
Final206_238	0.1633	0.1756	0.525	0.1831	0.1939	0.2708	0.3366	0.1832	0.1739	0.2918	0.1668
Final206_238_Prop2SE	0.0045	0.0048	0.016	0.0049	0.0061	0.0069	0.0089	0.0064	0.005	0.011	0.0043
ErrorCorrelation_6_38vs7_35	0.45015	0.5694	0.45728	0.378	0.26352	0.6815	0.44155	0.60659	0.57133	0.24053	0.54283
Concordance	88.79781421	94.64123524	59.04082955	103.1428571	103.2549729	87.84781374	100.754717	67.10037175	98.75717017	78.56121963	98.02761341
FinalAge206_238	975	1042	2733	1083	1142	1547	1869	1083	1033	1649	994
FinalAge206_238_Prop2SE	25	27	72	27	33	36	43	35	27	52	24
FinalAge207_206	1098	1101	4629	1050	1106	1761	1855	1614	1046	2099	1014
FinalAge207_206_Prop2SE	84	81	62	87	87	68	73	110	81	72	85
Final_U_Th_Ratio	1.528	1.428	0.0726	1.017	1.444	0.877	0.989	1.061	2.304	0.441	3.77

Table 9: U-Pb data for BR05DD01 core sample, Johnnys Creek formation.

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comments	JohnC001	JohnC002	JohnC003	JohnC004	JohnC005	JohnC006	JohnC007	JohnC008	JohnC009	JohnC010	JohnC011	JohnC012	JohnC013	JohnC014	JohnC015	JohnC016	JohnC017
Final207_235	1.17	0.781	1.242	1.671	1.37	1.76	0.8	1.862	1.1	1.165	1.261	1.254	1.271	0.839	0.811	1.276	1.198
Final207_235_Prop2SE	0.11	0.044	0.08	0.074	0.11	0.15	0.04	0.11	0.11	0.098	0.085	0.1	0.08	0.051	0.051	0.097	0.1
Final206_238	0.1312	0.096	0.1313	0.1656	0.1312	0.135	0.0983	0.1815	0.1311	0.1323	0.1308	0.1316	0.1312	0.0961	0.0942	0.131	0.1322
Final206_238_Prop2SE	0.0046	0.0028	0.0047	0.0041	0.005	0.0065	0.0025	0.0051	0.0048	0.0044	0.0047	0.0052	0.004	0.0031	0.0029	0.005	0.005
ErrorCorrelation_6_38vs7_35	0.10948	0.34138	0.1873	0.48802	-0.02953	0.13686	0.37179	0.43785	-0.01948	0.045642	-0.07267	0.29901	0.41085	0.3321	0.10819	0.10499	-0.08222
Concordance	115.0725	105.1693	96.0241	98.8978	75.61905	54.63087	107.5445	100.7498	134.5763	108.1081	88.8764	94.7619	88.75278	89.54545	92.38095	88.11111	119.403
FinalAge206_238	794	590	797	987	794	814	604.4	1075	794	800	791	796	797	591	582	793	800
FinalAge206_238_Prop2SE	26	16	26	23	29	37	15	28	27	25	27	30	22	18	17	28	28
FinalAge207_206	690	561	830	998	1050	1490	562	1067	590	740	890	840	898	660	630	900	670
FinalAge207_206_Prop2SE	190	120	140	88	190	180	100	110	230	180	150	180	120	130	140	160	190
Approx_Pb_PPM	173	299	210	1690	131.5	121.5	937	447	106	160	571	107.1	560	305	335	123	121.7
Approx_Pb_PPM_Int2SE	11	15	23	110	8	8.6	43	21	7	14	37	7.6	22	15	16	9.9	8.8
Final_U_Th_Ratio	0.853	1.647	1.246	1.22	0.996	1.113	1.041	0.876	1.304	0.973	0.435	1.144	0.671	1.191	1.143	1.072	1.072
Final_U_Th_Ratio_Int2SE	0.021	0.051	0.066	0.041	0.024	0.032	0.025	0.02	0.03	0.026	0.013	0.026	0.014	0.024	0.023	0.026	0.031

Table 10: Hf isotopic data for a number of samples.

Sample N Analys	ic N LIF176/LIF1	255	Lu176/Hf1		orror	uf Chur (+	LIF DAA (+)	LIF NIC(+)		epsilon	25	(orustal)	T(NC)
	Notes and the second second			JIAW/ NO.35			Hf DM (t)	A CONTRACTOR OF A CONTRACTOR A CONTR				(crustal)	(crustal)
ARE-F-001	0.281979	3.65E-05	the state of the s	1093	18			0.28238		-4.6106			
ARE-F-014	0.281526	2.44E-05		1866	59		0.28189		0.281509	-3.04284	0.852914		
ARE-F-016	0.281566	5.2E-05	0.000635	1796	68	0.28164	0.281942	0.28187	0.281544	-3.40851	1.818957	2.651749	2.49869
ARE-F-022	0.281914	3.68E-05	0.000811	1586	90	0.281776	0.282097	0.282023	0.28189	4.021798	1.28973	2.037406	1.876944
ARE-F-025	0.282048	3.28E-05	0.000706	1167	21	0.282046	0.282405	0.282326	0.282033	-0.46595	1.148971	1.984603	1.81269
ARE-F-026	0.282305	2.46E-05	0.000429	927	16	0.282199	0.28258	0.282499	0.282297	3.482255	0.861044	1.553808	1.37398
ARE-F-027	0.281176	2.4E-05	0.000323	2649	55	0.281083	0.281305	0.281244	0.281159	2.698184	0.838659	2.957127	2.827368
ARE-F-036	0.281108	2.8E-05	0.000339	2647	57	0.281085	0.281307	0.281245	0.281091	0.236268	0.980892	3.100912	2.971449
ARE-F-037	0.28196	3.25E-05	0.001211	1621	75	0.281754	0.282071	0.281998	0.281923	6.014304	1.137967	1.943371	1.783568
ARE-F-047	0.282179	3.35E-05	0.001299	980	22	0.282165	0.282542	0.282461	0.282155	-0.35826	1.170984	1.832957	1.655501
ARE-F-051	0.281179	3.19E-05	0.000458	2356	53		0.281525	0.28146	0.281159	-4.16002			
ARE-F-061	0.28198	3.36E-05	0.001097	1508	87		0.282155	0.28208	0.281949	4.335211	1.175376		1.794042
ARE-F-064	0.282081	2.73E-05	0.000617	1144	28	0.28206	0.282422		0.282067	0.243195	0.95598		1.750419
ARE-F-070	0.281293	3.01E-05		2195	60		0.281645	0.281578	0.281281	-3.55156		2.970688	
ARE-F-076	0.281697	3.13E-05	0.0007	2001	74		0.28179	0.281721	0.281671	5.803896	1.095435	2.257271	
ARE-F-084	0.282014	2.83E-05		1514	83		0.28215		0.281992	5.993934	0.989713	1.860015	
				1763	63								
ARE-F-092	0.281593	5.28E-05	0.000733						0.281569	-3.31332			
ARE-F-094	0.281638	4.28E-05		1682	64		0.282026		0.281587	-4.50462	1.498674	2.6294	
ARE-F-097	0.28227	3.08E-05	0.001417	1115	19		0.282443	0.282364	0.28224	5.711533	1.079417	1.562844	
ARE-F-103	0.281872	2.97E-05	0.000998	1342	69		0.282277	0.2822	0.281847	-3.06193	1.039143	2.279017	2.112746
ARE-F-105	0.28219	3.27E-05	0.000932	1040	23	0.282127	0.282498	0.282418	0.282171	1.574361	1.144742	1.760158	1.584088
ARE-F-107	0.281314	3.09E-05	0.000709	2163	55	0.281402	0.281669	0.281602	0.281285	-4.16638	1.082899	2.982337	2.839883
ARE-F-108	0.281011	2.72E-05	0.000715	2791	54	0.28099	0.281198	0.281138	0.280973	-0.61188	0.950727	3.264441	3.139120
Aru-F-002	0.282035	2.47E-05	0.000527	1136	32	0.282066	0.282428	0.282349	0.282024	-1.4775	0.863868	2.022707	1.850088
Aru-F-003	0.281637	2.94E-05	0.000456	1309	100	0.281955	0.282301	0.282224	0.281626	-11.6687	1.027988	2.776011	2.610403
Aru-F-010	0.282002	3.15E-05	0.001097	1538	85	0.281807	0.282133	0.282058	0.28197	5.781963	1.101314	1.891963	1.72977:
Aru-F-011	0.281168	2.24E-05	0.000314	2250	77	0.281345	0.281604	0.281538	0.281155	-6.76053	0.785521		
Aru-F-022	0.281851	2.62E-05	0.000843	1453	97	0.281862	0.282195	0.28212	0.281828	-1.20591	0.915376		
Aru-F-026	0.281686	3.33E-05	0.001226	1822	84	0.281624	0.281923	0.281851	0.281643	0.694171	1.163921		
Aru-F-033	0.281113	2E-05	0.000451	2604	73	0.281113	0.281339	0.281277	0.28109	-0.80174	0.70033		
Aru-F-041	0.281113	2.65E-05	0.000451	1191	36	0.28203	0.282388	0.281277	0.281943	-3.10109	0.928544		
Aru-F-044	0.281879	2.7E-05	0.000655	1207	46	0.28202	0.282376	0.282297	0.281864	-5.53642	0.943821	2.325897	
Aru-F-055	0.281326	2.69E-05	0.000961	1804	83	0.281635	0.281936	0.281865	0.281293	-12.1666			
Aru-F-071	0.281996	2.81E-05	0.001015	1573	88	0.281785	0.282107	0.282033	0.281966	6.429247	0.983996		
Aru-F-081	0.281996	2.81E-05	0.001015	1038	30	0.282128	0.282499	0.282419	0.281976	-5.38675	0.983996	2.187095	2.0123
Aru-F-083	0.281646	2.28E-05	0.000731	1637	86	0.281743	0.28206	0.281986	0.281624	-4.24736	0.796487	2.579071	2.42158
Aru-F-086	0.28189	2.32E-05	0.000727	1203	33	0.282023	0.282379	0.2823	0.281874	-5.28631	0.811786		
Aru-F-087	0.281434	2.11E-05	0.000809	1763	100	0.281662	0.281966	0.281894	0.281407	-9.05546	0.73739	2.965048	
Aru-F-089	0.282005	3.51E-05	0.001031	1200	51	0.282025	0.282381	0.282302	0.281982	-1.52346	1.228873	2.075087	1.90436
Aru-F-095	0.281932	2.36E-05	0.000416	1316	110	0.28195	0.282296	0.282219	0.281922	-1.00102	0.824594	2.133068	1.965644
Aru-F-097	0.281828	3.36E-05	0.001412	1550	85	0.2818	0.282124	0.282049	0.281787	-0.46158	1.174632	2.282222	2.121529
Aru-F-100	0.281954	2.51E-05	0.000945	1116	32	0.282078	0.282442	0.282363	0.281934	-5.11065	0.878535	2.230018	2.057529
Aru-F-109	0.28224	4E-05	0.002213	922	24	0.282202	0.282584	0.282502	0.282201	-0.02732	1.398271	1.767556	1.588309
BRW-ARE-003	0.281965	3.2E-05	0.001294	1284	53	0.281971	0.282319	0.282242	0.281934	-1.31821	1.121083		1.95933
BRW-ARE-004	0.281824	2.39E-05	0.000332	1118	36		0.282441	0.282362	0.281817	-9.22556			
BRW-ARE-004	0.281998	2.97E-05	0.000913	1090	33	0.282095	0.282441	0.282302	0.281917	-4.08731	1.040112		1.9739
BRW-ARE-007	0.281998	3.61E-05	0.000913	970	32	0.282093	0.282549		0.28138	1.634237			
	0.282238			970	25	0.282172	0.282549		0.282218				
BRW-ARE-014		3.05E-05	0.001039							0.50562			
BRW-ARE-015	0.282394			871	27			0.282539					
BRW-ARE-018	0.281926	5.49E-05		1518	36			0.282073					
BRw-ARE-021	0.282339	4.28E-05	0.00098	683	20				0.282326		1.499401		1.456542
BRw-ARE-024	0.281554		0.000964	1685				0.281951			1.275202		
BRw-ARE-029	0.281257			2300	33			0.281501			0.996891		
BRW-ARE-031	0.282382	4.14E-05	0.001426	704	22	0.282341	0.282742	0.282658	0.282363			1.547946	1.36201
BRw-ARE-032	0.281802	2.84E-05	0.000786	1305	40	0.281957	0.282304	0.282227	0.281783	-6.18176	0.995505	2.440427	2.273668
BRw-ARE-039	0.281877	3.12E-05	0.000616	1644	54	0.281739	0.282054	0.281981	0.281858	4.239977	1.093473	2.069795	1.910983
BRw-ARE-041	0.282102	3.6E-05	0.001292	986	28	0.282161	0.282537	0.282456	0.282078	-2.96057	1.260349	1.998072	1.82132
BRW-ARE-047	0.282345	3.16E-05	0.000883	699	22	0.282344	0.282746	0.282662	0.282333	-0.38278	1.104697	1.617108	1.43128
BRw-ARE-049	0.281063	0.000156	0.00127	2831	23	0.280963	0.281168	0.281109	0.280994	1.104788	5.466189	3.1953	3.07086
BRw-ARE-055	0.281604	1.73E-05		1737	51			0.281913		-2.69005			2.40777
BRW-ARE-056	0.281666	3.33E-05		1517	30			0.282073		-6.49888			2.46194
BRW-ARE-057	0.281839	2.4E-05		1611	55		0.282079		0.281821			2.16974	
BRW-ARE-059	0.281835		0.000904	1220				0.282288			1.095384		

BRw-ARE-066	0.282103	3.21E-05	0.000681	1114	34	0.28208	0.282444	0.282364	0.282089	0.336845	1.123307	1.894064	1.720435
BRw-ARE-069	0.281943	2.97E-05	0.000854	1572	56	0.281785	0.282108	0.282033	0.281917	4.676404	1.038394	1.986409	1.825418
PIO-002	0.282076	2.68E-05	0.000495	1148	77	0.282058	0.282419	0.28234	0.282065	0.267318	0.936423	1.924768	1.752157
PIO-004	0.281699	2.11E-05	0.000108	1203	70	0.282023	0.282379	0.2823	0.281697	-11.5632	0.73961	2.689297	2.520598
PIO-012	0.282095	3.28E-05	0.000865	1136	83	0.282066	0.282428	0.282349	0.282076	0.384849	1.146731	1.908208	1.73522
PIO-013	0.281104	2.66E-05	0.000507	2438	76	0.281222	0.281464	0.2814	0.28108	-5.04928	0.932529	3.248722	3.114161
PIO-035	0.282133	3.36E-05	0.001286	1344	85	0.281932	0.282275	0.282199	0.2821	5.962805	1.177065	1.727706	1.559768
PIO-041	0.281447	2.83E-05	0.000956	1872	78	0.281591	0.281886	0.281815	0.281413	-6.32931	0.990333	2.885808	2.735423
PIO-045	0.281415	3.93E-05	0.00091	2164	75	0.281401	0.281669	0.281601	0.281377	-0.8448	1.374208	2.785171	2.642216
PIO-052	0.280967	3.88E-05	0.000634	2996	78	0.280854	0.281043	0.280986	0.280931	2.73413	1.357614	3.230792	3.110739
PIO-053	0.282008	2.67E-05	0.000767	1011	81	0.282145	0.282519	0.282439	0.281993	-5.38749	0.935599	2.166447	1.990928
PIO-056	0.281878	5.15E-05	0.001282	1540	85	0.281806	0.282131	0.282057	0.281841	1.241539	1.803168	2.170798	2.009503
PIO-057	0.282167	3.56E-05	0.000862	1374	81	0.281913	0.282253	0.282177	0.282145	8.234445	1.247288	1.611431	1.443942
PIO-059	0.281952	2.95E-05	0.000597	769	86	0.2823	0.282695	0.282612	0.281944	-12.6109	1.033799	2.425649	2.244489
PIO-061	0.282223	2.51E-05	0.000432	1051	89	0.28212	0.28249	0.28241	0.282215	3.356375	0.877542	1.658519	1.482414
PIO-062	0.281361	4.44E-05	0.001925	2306	78	0.281308	0.281563	0.281497	0.281276	-1.14226	1.552694	2.914222	2.775348
PIO-070	0.281278	2.33E-05	0.000743	2250	99	0.281345	0.281604	0.281538	0.281246	-3.50375	0.814726	3.01073	2.870635
PIO-074	0.281955	2.03E-05	0.000694	1560	82	0.281793	0.282116	0.282042	0.281934	5.01708	0.708847	1.956126	1.794721
PIO-080	0.281287	2.55E-05	0.000225	2473	87	0.281199	0.281437	0.281374	0.281277	2.764803	0.892395	2.813646	2.678909
PIO-082	0.281524	2.04E-05	0.000111	1923	90	0.281558	0.281848	0.281778	0.28152	-1.3482	0.713903	2.626784	2.477022
PIO-088	0.282134	2.97E-05	0.001136	1536	87	0.281809	0.282134	0.28206	0.282101	10.3708	1.038749	1.608674	1.445568
PIO-095	0.281339	2.58E-05	0.000924	1921	34	0.281559	0.281849	0.281779	0.281306	-9.00952	0.902682	3.083543	2.935001
PIO-102	0.282523	2.98E-05	0.00085	868	30	0.282237	0.282623	0.282541	0.282509	9.648183	1.04391	1.122601	0.939698
PIO-107	0.282196	2.59E-05	0.000804	1191	32	0.28203	0.282388	0.282309	0.282178	5.247429	0.908171	1.651333	1.479005
W-ARU-005	0.281146	2.82E-05	0.00038	2541	63	0.281154	0.281386	0.281324	0.281127	-0.95617	0.986985	3.087769	2.9555
W-ARU-008	0.282116	3.52E-05	0.001178	949	24	0.282185	0.282564	0.282483	0.282095	-3.19788	1.23037	1.984202	1.80641
W-ARU-009	0.280815	3.62E-05	0.000595	2607	68	0.281111	0.281337	0.281275	0.280786	-11.5756	1.267126	3.762159	3.633251
W-ARU-017	0.281279	3.95E-05	0.001167	2658	76	0.281077	0.281298	0.281237	0.28122	5.056951	1.381002	2.824659	2.694816
W-ARU-020	0.282009	3.48E-05	0.000857	1633	92	0.281746	0.282063	0.281989	0.281983	8.40687	1.219491	1.806536	1.646648
W-ARU-024	0.281031	2.71E-05	0.000664	2530	63	0.281162	0.281395	0.281332	0.280999	-5.78784	0.949125	3.36384	3.231964
W-ARU-026	0.281294	3.36E-05	0.000867	2504	69	0.281179	0.281414	0.281351	0.281253	2.62887	1.174827	2.846277	2.712438
W-ARU-033	0.281254	2.63E-05	0.000862	2307	65	0.281308	0.281562	0.281496	0.281216	-3.27715	0.92008	3.041763	2.903246
W-ARU-035	0.282157	6.12E-05	0.001116	1364	100	0.281919	0.282261	0.282184	0.282129	7,421592	2.14063	1.653633	1,486004
W-ARU-037	0.281591	2.35E-05	0.000244	1949	70	0.281541	0.281829	0.281759	0.281582	1.445329	0.82315	2.479127	2.329643
W-ARU-038	0.281621	2.8E-05	0.000586	1733	82	0.281681	0.281989	0.281916	0.281602	-2.82298	0.979489	2.567559	2.412587
W-ARU-039	0.280521	3.61E-05	0.000693	3543	61	0.28049	0.280627	0.280576	0.280474	-0.56622	1.264608	3.857324	3.752723
W-ARU-047	0.281548	3.82E-05	0.001577	1788	71	0.281646	0.281948	0.281876	0.281495	-5.36763	1.336112	2.76328	2.610328
W-ARU-051	0.281583	2.89E-05	0.001212	1835	75	0.281615	0.281913	0.281842	0.281541	-2.63367	1.01059	2.635457	2.483387
W-ARU-055	0.282092	3.33E-05	0.001257	993	26	0.282157	0.282532	0.282451	0.282069	-3.11664	1.166198	2.013071	1.836562
W-ARU-056	0.280992	3.54E-05	0.000934	2686	65	0.281059	0.281277	0.281216	0.280944	-4.10467	1.238303	3.386792	3.259032
W-ARU-061	0.280992	3.54E-05	0.000934	2026	69	0.281491	0.281771	0.281702	0.280956	-19.0243	1.238303	3.755774	3.611809
W-ARU-062	0.281319	3.19E-05	0.001112	1612	99	0.28176	0.282078	0.282004	0.281285	-16.8454	1.116347	3.315387	3.159392
W-ARU-066	0.281616	3.03E-05	0.000772	1805	70	0.281635	0.281935	0.281864	0.28159	-1.59013	1.05912	2.549275	2.396162
W-ARU-000	0.281010	2.33E-05	0.000772		100	0.281055	0.281933	0.281804	0.28139	-1.39013	0.817142	2.563071	2.39648
W-ARU-077	0.281739	2.33E-05 3.08E-05	0.000948	1297	31	0.281962	0.28231	0.282233	0.281728	3.252446	1.078779	1.75412	1.581419
												3.508464	
W-ARU-082	0.280992	4.54E-05	0.001132	2501	67	0.281181	0.281416	0.281353	0.280938	-8.63479	1.588698		3.376191
W-ARU-091	0.281998	3.25E-05	0.001263	1311	77	0.281953	0.2823	0.282222	0.281966	0.46116	1.137473	2.039705	1.871855
W-ARU-100	0.281474	2.78E-05	0.000792	1971	75	0.281527	0.281812	0.281/43	0.281445	-2.91556	0.973769	2.758228	2.610102

Table 11. The exact location of the sa	inpics.		1
Location	Depth Top	Depth Bottom	Unit
BR05DD01 core	523.8	525.8	Areyonga Fm
BR05DD01 core	753.6	756.2	Johnny Creek fm
Wallara 1 core	711.18	712.8	Arumbera Sst
Wallara 1 core	1286.67	1287.89	Pioneer SSt
Wallara 1 core	1367.17	1370.3	Areyonga Fm
Wallara 1 core	1513.07	1515.14	Johnny Creek fm
Western MacDonnell Samples	S	E	Unit
AM18-01	49.31 40 23	50.07 40 132	Arumbera sandstone
AM18-03	15.85 47 23	26.28 04 133	Areyonga formation
AM18-7	30.88 56 23	26.55 07 132	Pertatataka formatiom

Table 11: The exact location of the samples.