Brueseke et al. Electronic Supplementary Material

**Online Resource 1 – Volume calculations, sample preparation, and analytical procedures**

Sampling, sample preparation, and petrography

Field sampling of JR lava flows was focused on exposures of JR from within the MB that were accessible from maintained roads and at other locations to the west (Fig. 3). Except for where discrete rhyolite domes are present, samples were collected in a stratigraphic context from sections of JR lava flows. Areas of mineralization were avoided during sampling and samples selected for geochemical and isotopic analysis had obvious post-eruptive alteration removed prior to crushing and powdering. Samples selected for geochemical, isotopic, and geochronologic analyses were split were split using a Rocklabs hydraulic splitter/crusher with tungsten carbide faces. Samples were split using the "knife edge" arms and reduced to a maximum size of 2.5 x 2 x 2 cm. Weathering rinds, apparent alteration, and any contaminant were removed using a diamond tipped rock saw, silica carbide sandpaper mounted on a grinding wheel, and hand picking. Using the rock saw, thin section blanks were cut to fit standard 24 x 44 mm size and blanks were sent to Spectrum Petrographics Inc. All samples were then washed in deionized water to remove any adhering powder or contaminant. Samples were further crushed using the Rocklabs crusher and reduced until sample pieces had a diameter of <5 mm. A cone and quarter method was used to obtain a 15-20 ml aliquot of randomized sample for further pulverizing, while other aliquots were set aside for geochronology and Oxygen isotope analyses. The aliquot set aside for further powdering was reduced to a clay size fraction by a Spex Industries aluminum oxide shatterbox.

Representative samples were point counted with a target of 1,000 counts per thin section and a step interval of 1 mm. Point counting was conducted using the 10x objective and mineral counts were kept on a counter. Photographs were taken using a 4-megapixel camera mounted to a Nikon petrographic microscope, using Spot software.

Volume calculations

Jarbidge rhyolite volume estimates were obtained using ArcGIS version 9.3.1. Two National Elevation Datasets (NEDs) at one-third arc second resolution were downloaded from the seamless map server (http://seamless.usgs.gov/). The NEDs were mosaiced using the mosaic tool in Arc toolbox. The resultant mosaiced raster's cell dimension was reset to 10 x 10 meters. The Geologic Map of Elko County, NV (Coats, 1987) was scanned at a 720 dots per inch resolution, and georeferenced with a resultant error smaller than the pixel size. All map datum and projections were set to UTM North 11 zone and world grid survey (WGS) of 1984. JR outcrops were digitized by point and click at ~1:5,000 scale. Spatial analyst, an ArcGIS extension, was used to calculate volumes. The zonal statistics function of spatial analyst determines maximum and minimum surface elevations of a defined area within an NED's boundary. The defined area is established by a polygon, which is a JR outcrop (as defined by Coats, 1987 and our field work) in this case. The lowest surface elevation within a polygon is treated as the lowest elevation of JR within that outcrop. The raster calculator was used to subtract the minimum elevation value from every cell value in the NED, and a new NED titled "calculation" was created. The raster calculator works on an individual cell basis, applying a function or operation to each cell in a raster. By multiplying "calculation" by the area of a cell, a third NED, "calculation 2" was created, and this NED represented the volume of earth within that cell. Zonal statistics was used to sum the values of cells within a polygon, and the sum is treated as an estimate of erupted material. Overall, this method is similar to that used by Wiart and Oppenheimer (2005) to estimate erupted volumes of silicic magmas in the Afar.

Major and trace element analyses

Major and trace element (Ba, Rb, Sr, Co, Cr, Cu, Nb, Ni, Sc, Y, V, Zn, Zr) analyses were performed by direct current argon plasma atomic emission spectrometry (DCP-AES) at Miami University following the procedures of Katoh et al. (1999). An initial solution of nitric acid and trace solution spike was added to a 125 ml plastic bottle. Masses of solution components were recorded and later used for calculating the equivalent dilution. Processed sample powder and a lithium metaborate flux were homogenized and placed in a muffle furnace, resulting in a molten bead. The resultant molten bead was dissolved in an initial solution, resulting in a sample solution. Aliquots of sample solution were used for major and trace element analyses. Blanks were created for the major, minor and spiked solutions and run with samples, in addition to commercial external standards from the United States Geological Survey (USGS) and Japanese Geological Survey. Multi-element cassettes were used for data collection. Major element concentrations of samples were determined by peak intensity comparison with standards of known concentrations. Separate runs for phosphorous concentration were completed. Thus the % differences between accepted and reported $P_2O_5$ for standards in the accompanying table are much higher than the actual analytical precision for this element for unknown Jarbidge samples. Trace element concentrations were determined by standard addition. Reported concentrations were the result of averaging three runs. Data collection and reduction was performed on specific software written for the DCP-AES at Miami University and the methods follow those of Katoh et al.(1999).

The initial solution contains ~50 grams of 5% $HNO_3$, spiked with 3,000 ppm Li, 10 ppm Ge, and 20 ppm Cd. Two hundred milligrams of processed sample powder was mixed with 600 milligrams (with a maximum deviation of 0.5 mg) of lithium borate ($LiBO_2$) flux. Sample and flux mixture were placed in a graphite crucible. The crucibles were heated at 950° C in a muffle furnace for twenty minutes. A molten bead formed and was poured into the initial solution. This solution was shaken vigorously and placed on a reciprocating table. The samples stood at ambient temperature for at least twelve hours and if any solid residue remained the mixture was unusable.

Major and Trace Element Dilution:

Approximately one g of the sample solution was added to a 60 ml plastic bottle containing ~25 grams of spiked major solution. The equation to calculate equivalent dilution is: ((mass of major solution + mass of trace aliquot)/mass of trace aliquot)*(trace aliquot mass). Externally run standards for major element analyses include AGV-2, BCR-2, BHVO-2, DNC-1, G-2, GSP-2, and SY-2, JR-3, JG-2, and BE-N. Standard measurements are within acceptable error of accepted values. Trace element concentrations were determined by standard addition. Each sample required a set of solutions, one without spike, and two with varying amounts of acid and spike. Each bottle in a set has 10.000+/- 0.006 grams of the original solution added. Then the three bottles had: 0.6 ml of 5% $HNO_3$, 0.3 ml of $HNO_3$ and 0.3 ml of trace element spike, and 0.6 mL of trace solution added to them, respectively. External standards that were run are the same as those run for majors. GSP-2 was run as a trace element standard.

Data Collection and Reduction:

Data collection and reduction was done by computer software specific to Miami University Geology Department's DCP-AES. The following corrections were applied to the analyses (LeMaitre, 1976).

Oxidation ratio: $(OX)=FeO/(FeO+Fe_2O_3)= 0.93-0.0042\ SiO_2-0.022\ (Na_2O+K_2O)$

$Fe_2O_3=[0.899813(OX)(Fe_2O_3^*)-0.899813(Fe_2O_3^*)]/[-0.899813-0.100187\ (OX)]$

$FeO=(Fe_2O_3^*-Fe_2O_3)/1.111342$

Nb Correction: Nb(final)=Nb(measured)-(0.108xV(measured))

Zr Correction: CaO, Al2O3, and Fe2O3 are converted to ppm

Zr(final)=Zr(measured)/[((Ca+Al+Fe)/Zr(measured))x-0.000021+1.009696]

Rare earth element (REE) and additional trace (Cs, Ga, Pb, U, Th, Ta, Hf) analyses were performed by inductively coupled plasma mass spectrometry (ICP-MS) at Miami University. For samples selected for REE and additional trace element analyses, 50 mg of sample powder was mixed with 75 mg of flux. The flux was a 3:2 mixture by weight of sodium tetraborate and potassium carbonate. The sample:flux mixture was fused in a graphite crucible in an oven at 950°C for 30 minutes. The bead was allowed to cool in the graphite crucible and then transferred into 125 ml of 1% $HNO_3$ (made from doubly distilled $HNO_3$ and quartz distilled water) in a clean, acid-washed 125 ml low-density polyethylene bottle. Samples were dissolved overnight and the resulting solutions were analyzed the following day using a Varian ICP-MS (prototype model, referred to by Varian as the "Red Top"). External calibration standards were made using ten certified reference material rock standards prepared under identical conditions at the same time. The standard run was RGM-1. A 100 ppb solution of Ge, In, Re, and Bi was used for internal standardization. Three replicates of thirty readings each were measured for each analytical solution. Geochemical results, including measured and accepted standard concentrations, are found in the accompanying excel spreadsheet (Table DR1). Iron was split into FeO and $Fe_2O_3$ after LeMaitre (1976).

Oxygen isotope analyses

Quartz and feldspar separates for oxygen isotope analyses come from samples that were previously selected for REE analyses and geochronology. Previously crushed samples were sieved and the >0.5mm size fraction was hand-picked for quartz and feldspar crystals using a binocular microscope. The mineral separates were sent to the Washington State University GeoAnalytical laboratory and analyzed following the method of Sharp (1990). Liberated oxygen was measured by a Finnigan™ Delta S Isotope Ratio Mass Spectrometer operated by an ISODAT NT software operating system. The oxygen isotope values were corrected by repeated analysis of the UWG-2 garnet standard ($\delta^{18}$= ~5.8‰), and analytical precision ranged from 0.05‰ to 0.22‰ (Valley et al., 1995; Takeuchi and Larson, 2005).

## $^{40}Ar/^{39}Ar$ geochronologic analyses

Details (overall procedures and information for individual analyses) are found in the accompanying excel spreadsheet (Table DR2).

## References

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**Brueseke et al - Table DR1. Major and trace element geochemistry.**
**Major elements reported as raw data, in wt. % and trace elements in ppm**

**Jarbidge Rhyolite**

| **Sample** | **JC-08-7** | **JC-08-8** | **JC-08-9** | **JC-08-10** | **JC-08-12** | **JC-08-13** |
|---|---|---|---|---|---|---|
| **SiO2** | 77.37 | 76.36 | 76.79 | 75.18 | 73.88 | 73.62 |
| **TiO2** | 0.33 | 0.26 | 0.29 | 0.28 | 0.41 | 0.37 |
| **Al2O3** | 12.70 | 12.48 | 12.68 | 12.26 | 12.82 | 12.60 |
| **Fe2O3** | 0.80 | 1.00 | 0.77 | 2.11 | 3.25 | 2.31 |
| **MnO** | 0.01 | 0.00 | 0.00 | 0.02 | 0.02 | 0.03 |
| **MgO** | 0.02 | 0.02 | 0.03 | 0.06 | 0.07 | 0.06 |
| **CaO** | 0.73 | 0.69 | 0.84 | 0.98 | 1.28 | 1.43 |
| **Na2O** | 2.84 | 2.92 | 3.02 | 2.70 | 3.05 | 2.53 |
| **K2O** | 5.44 | 5.48 | 5.60 | 5.61 | 4.85 | 5.45 |
| **P2O5** | 0.02 | 0.04 | 0.04 | 0.03 | 0.05 | 0.06 |
| **LOI** | 0.47 | 0.35 | 0.17 | 1.73 | 0.59 | 1.69 |
| **Total** | 100.73 | 99.59 | 100.23 | 100.98 | 100.27 | 100.15 |

| **Sample** | **JC-08-7** | **JC-08-8** | **JC-08-9** | **JC-08-10** | **JC-08-12** | **JC-08-13** |
|---|---|---|---|---|---|---|
| **Ba** | 1054 | 535 | 990 | 721 | 2108 | 2010 |
| **Cr** | 2.6 | 3.8 | <1 | 1.2 | 6.3 | 3.3 |
| **Cu** | 5.8 | 3.5 | 3.8 | 7.5 | 8.4 | 10 |
| **Nb** | 22 | 25 | 29 | 21 | 23 | 26 |
| **Ni** | 1.9 | 21 | 3.7 | 7.8 | 9.3 | <1 |
| **Rb** | 176 | 222 | 201 | 210 | 132 | 163 |
| **Sr** | 94 | 49 | 84 | 68 | 173 | 158 |
| **Sc** | 5.7 | 4.1 | 4.6 | 6.0 | 7.5 | 8.0 |
| **V** | 2.8 | 1.7 | <1 | 21 | 15 | 5.9 |
| **Y** | 44 | 33 | 29 | 45 | 21 | 41 |
| **Zn** | 51 | 73 | 93 | 70 | 90 | 98 |
| **Zr** | 323 | 375 | 353 | 372 | 372 | 387 |
| **Co** | | | | 0.6 | | |
| **Ga** | | | | 20.6 | | |
| **Cs** | | | | 2.8 | | |
| **Hf** | | | | 11.4 | | |
| **Ta** | | | | 2.0 | | |
| **W** | | | | 1.8 | | |
| **Pb** | | | | 19.0 | | |
| **Th** | | | | 33.8 | | |
| **U** | | | | 8.1 | | |
| **La** | | | | 94.5 | | |
| **Ce** | | | | 171.0 | | |
| **Pr** | | | | 18.2 | | |
| **Nd** | | | | 64.9 | | |
| **Sm** | | | | 11.6 | | |
| **Eu** | | | | 0.8 | | |
| **Gd** | | | | 10.6 | | |
| **Tb** | | | | 1.5 | | |
| **Dy** | | | | 8.0 | | |
| **Ho** | | | | 1.6 | | |
| **Er** | | | | 4.6 | | |
| **Tm** | | | | 0.7 | | |
| **Yb** | | | | 4.5 | | |
| **Lu** | | | | 0.7 | | |

**UTM coordinates (all zone 11T, NAD 27 CONUS datum)**

| | | | | | | |
|---|---|---|---|---|---|---|
| **Northing** | 628071 | 627098 | 627195 | 627116 | 626200 | 626014 |
| **Easting** | 4631772 | 4631662 | 4631813 | 4631561 | 4627812 | 4627777 |

**Jarbidge Rhyolite**

| Sample | JC-08-20 | JC-08-24 | JC-08-25 | JC-08-26 | JC-09-2 | JC-09-3 |
|---|---|---|---|---|---|---|
| SiO2 | 76.38 | 74.79 | 76.08 | 77.23 | 74.25 | 75.32 |
| TiO2 | 0.38 | 0.36 | 0.18 | 0.22 | 0.28 | 0.28 |
| Al2O3 | 12.50 | 13.52 | 13.07 | 12.53 | 11.85 | 12.38 |
| Fe2O3 | 1.74 | 1.36 | 1.41 | 0.78 | 2.77 | 1.31 |
| MnO | 0.02 | 0.01 | 0.02 | 0.00 | 0.03 | 0.01 |
| MgO | 0.04 | 0.06 | 0.04 | 0.02 | 0.10 | 0.02 |
| CaO | 1.17 | 1.41 | 0.80 | 0.63 | 0.98 | 0.71 |
| Na2O | 3.01 | 2.96 | 2.59 | 2.87 | 2.84 | 2.92 |
| K2O | 4.89 | 5.52 | 5.58 | 5.64 | 5.14 | 5.44 |
| P2O5 | 0.07 | 0.07 | 0.03 | 0.01 | 0.03 | 0.04 |
| LOI | 0.40 | 0.27 | 0.60 | 0.28 | 0.59 | 0.24 |
| Total | 100.62 | 100.33 | 100.41 | 100.22 | 98.85 | 98.66 |

| Sample | JC-08-20 | JC-08-24 | JC-08-25 | JC-08-26 | JC-09-2 | JC-09-3 |
|---|---|---|---|---|---|---|
| Ba | 1894 | 1834 | 560 | 760 | 888 | 759 |
| Cr | 3.0 | 4.9 | 2.0 | 5.3 | 2.9 | 2.2 |
| Cu | 5.8 | 4.5 | 5.7 | 3.2 | 6.0 | 2.9 |
| Nb | 26 | 20 | 23 | 19 | 23 | 22 |
| Ni | 7.7 | 5.7 | 0.8 | 2.0 | 23 | 22 |
| Rb | 137 | 171 | 239 | 188 | 180 | 188 |
| Sr | 156 | 188 | 77 | 70 | 71 | 59 |
| Sc | 5.4 | 5.7 | 5.7 | 5.1 | 4.7 | 4.1 |
| V | 3.0 | 11 | 9.9 | 7.5 | <1 | <0 |
| Y | 32 | 30 | 58 | 39 | 76 | 34 |
| Zn | 71 | 59 | 48 | 48 | 72 | 65 |
| Zr | 385 | 305 | 223 | 258 | 405 | 417 |
| Co | 0.9 | 1.1 | 1.0 | | | |
| Ga | 20.2 | 22.3 | 22.7 | | | |
| Cs | 1.5 | 1.5 | 1.8 | | | |
| Hf | 11.1 | 10.8 | 7.9 | | | |
| Ta | 1.5 | 1.4 | 1.6 | | | |
| W | 4.0 | 2.6 | 2.1 | | | |
| Pb | 16.5 | 18.2 | 22.1 | | | |
| Th | 22.9 | 18.3 | 28.5 | | | |
| U | 4.8 | 3.9 | 5.4 | | | |
| La | 75.2 | 83.6 | 110.0 | | | |
| Ce | 139.0 | 157.0 | 209.0 | | | |
| Pr | 14.9 | 18.0 | 24.6 | | | |
| Nd | 53.9 | 65.0 | 89.9 | | | |
| Sm | 9.7 | 11.7 | 16.9 | | | |
| Eu | 2.0 | 1.9 | 0.8 | | | |
| Gd | 8.8 | 9.8 | 14.8 | | | |
| Tb | 1.2 | 1.3 | 2.0 | | | |
| Dy | 6.2 | 6.6 | 10.9 | | | |
| Ho | 1.2 | 1.2 | 2.1 | | | |
| Er | 3.5 | 3.5 | 6.0 | | | |
| Tm | 0.5 | 0.5 | 0.8 | | | |
| Yb | 3.5 | 3.2 | 5.6 | | | |
| Lu | 0.5 | 0.5 | 0.8 | | | |

**UTM coordinates (all zone 11T, NAD 27 CONUS datum)**

| | | | | | | |
|---|---|---|---|---|---|---|
| Northing | 624540 | 591852 | 602571 | 601145 | 627259 | 627007 |
| Easting | 4606260 | 4619700 | 4620752 | 4613113 | 4628256 | 4628072 |

**Jarbidge Rhyolite**

| **Sample** | **JC-09-4** | **JC-09-5** | **JC-09-6** | **JC-09-8** | **JC-09-9** | **JC-09-10B** |
|---|---|---|---|---|---|---|
| **SiO2** | 76.02 | 75.95 | 76.54 | 77.00 | 76.77 | 71.30 |
| **TiO2** | 0.25 | 0.24 | 0.24 | 0.17 | 0.30 | 0.41 |
| **Al2O3** | 12.27 | 12.31 | 12.66 | 11.92 | 12.21 | 12.73 |
| **Fe2O3** | 0.93 | 1.96 | 1.34 | 0.58 | 1.91 | 3.44 |
| **MnO** | 0.00 | 0.02 | 0.01 | 0.00 | 0.01 | 0.05 |
| **MgO** | 0.01 | 0.05 | 0.02 | 0.02 | 0.03 | 0.13 |
| **CaO** | 0.69 | 0.83 | 0.66 | 0.69 | 0.71 | 1.70 |
| **Na2O** | 2.93 | 2.97 | 2.91 | 2.99 | 2.82 | 2.67 |
| **K2O** | 5.50 | 5.36 | 5.56 | 5.37 | 5.33 | 5.32 |
| **P2O5** | 0.04 | 0.02 | 0.03 | 0.03 | 0.03 | 0.09 |
| **LOI** | 0.25 | 0.23 | 0.33 | 0.26 | 0.31 | 1.87 |
| **Total** | 98.88 | 99.94 | 100.31 | 99.02 | 100.42 | 99.71 |

| **Sample** | **JC-09-4** | **JC-09-5** | **JC-09-6** | **JC-09-8** | **JC-09-9** | **JC-09-10B** |
|---|---|---|---|---|---|---|
| **Ba** | 532 | 527 | 388 | 408 | 943 | 2235 |
| **Cr** | 9.1 | 2.5 | <1 | 3.4 | 11 | 8.2 |
| **Cu** | 3.3 | 5.6 | 2.2 | 2.4 | 6.0 | 6.3 |
| **Nb** | 25 | 25 | 17 | 27 | 20 | 19 |
| **Ni** | 14 | 24 | 13 | 11 | 20 | 24 |
| **Rb** | 243 | 241 | 167 | 254 | 184 | 131 |
| **Sr** | 47 | 46 | 35 | 42 | 69 | 164 |
| **Sc** | 3.3 | 3.8 | 2.7 | 2.9 | 4.7 | 6.4 |
| **V** | <1 | <1 | <1 | <1 | 4.0 | <1 |
| **Y** | 33 | 46 | 23 | 43 | 33 | 38 |
| **Zn** | 62 | 57 | 37 | 65 | 61 | 81 |
| **Zr** | 387 | 397 | 279 | 306 | 408 | 434 |
| **Co** | 0.6 | | | 0.5 | | 3.9 |
| **Ga** | 20.7 | | | 20.7 | | 20.6 |
| **Cs** | 2.7 | | | 2.6 | | 1.9 |
| **Hf** | 10.7 | | | 9.1 | | 11.0 |
| **Ta** | 2.2 | | | 2.4 | | 1.4 |
| **W** | 3.4 | | | 4.1 | | 1.7 |
| **Pb** | 25.6 | | | 26.2 | | 17.7 |
| **Th** | 37.7 | | | 40.9 | | 20.0 |
| **U** | 9.0 | | | 9.0 | | 3.9 |
| **La** | 85.7 | | | 103.0 | | 76.8 |
| **Ce** | 129.0 | | | 168.0 | | 136.0 |
| **Pr** | 16.4 | | | 19.0 | | 14.8 |
| **Nd** | 56.9 | | | 64.7 | | 54.2 |
| **Sm** | 10.1 | | | 11.4 | | 10.0 |
| **Eu** | 0.6 | | | 0.5 | | 2.4 |
| **Gd** | 8.7 | | | 9.8 | | 9.1 |
| **Tb** | 1.2 | | | 1.3 | | 1.3 |
| **Dy** | 6.4 | | | 7.2 | | 7.0 |
| **Ho** | 1.2 | | | 1.4 | | 1.4 |
| **Er** | 3.7 | | | 4.2 | | 4.1 |
| **Tm** | 0.5 | | | 0.6 | | 0.6 |
| **Yb** | 3.7 | | | 4.2 | | 4.1 |
| **Lu** | 0.5 | | | 0.6 | | 0.6 |

**UTM coordinates (all zone 11T, NAD 27 CONUS datum)**

| | | | | | | |
|---|---|---|---|---|---|---|
| **Northing** | 626884 | 626646 | 626594 | 627427 | 627089 | 626907 |
| **Easting** | 4627950 | 4627924 | 4627936 | 4616651 | 4617012 | 4617098 |

**Jarbidge Rhyolite**

| **Sample** | **JC-09-11** | **JC-09-12** | **JC-09-14** | **JC-09-15** | **JC-09-16** | **JC-09-17** |
|---|---|---|---|---|---|---|
| **SiO2** | 72.91 | 71.59 | 72.99 | 72.69 | 73.42 | 75.49 |
| **TiO2** | 0.43 | 0.41 | 0.37 | 0.46 | 0.21 | 0.26 |
| **Al2O3** | 13.45 | 13.19 | 12.30 | 13.62 | 11.89 | 12.19 |
| **Fe2O3** | 2.99 | 2.66 | 3.77 | 1.69 | 1.99 | 1.85 |
| **MnO** | 0.02 | 0.03 | 0.01 | 0.01 | 0.02 | 0.01 |
| **MgO** | 0.04 | 0.05 | 0.08 | 0.03 | 0.05 | 0.04 |
| **CaO** | 1.29 | 1.59 | 1.00 | 1.54 | 0.88 | 0.74 |
| **Na2O** | 3.22 | 2.98 | 2.74 | 2.89 | 2.33 | 2.91 |
| **K2O** | 5.06 | 5.19 | 4.97 | 5.41 | 5.64 | 5.48 |
| **P2O5** | 0.09 | 0.08 | 0.07 | 0.11 | 0.03 | 0.08 |
| **LOI** | 0.39 | 1.60 | 0.64 | 0.28 | 2.39 | 0.54 |
| **Total** | 99.89 | 99.37 | 98.94 | 98.72 | 98.85 | 99.58 |

| **Sample** | **JC-09-11** | **JC-09-12** | **JC-09-14** | **JC-09-15** | **JC-09-16** | **JC-09-17** |
|---|---|---|---|---|---|---|
| **Ba** | 2433 | 2414 | 1966 | 2715 | 743 | 565 |
| **Cr** | 5.3 | 5.9 | 4.4 | 6.4 | 5.6 | <1 |
| **Cu** | 7.1 | 6.4 | 6.5 | 5.3 | 4.2 | 4.8 |
| **Nb** | 21 | 23 | 21 | 27 | 18 | 24 |
| **Ni** | 18 | 21 | 22 | 32 | 16 | 18 |
| **Rb** | 140 | 139 | 161 | 133 | 198 | 229 |
| **Sr** | 177 | 186 | 142 | 328 | 59 | 55 |
| **Sc** | 6.8 | 6.9 | 6.3 | 8.4 | 4.3 | 3.9 |
| **V** | <1 | <1 | <1 | 3.7 | <1 | <1 |
| **Y** | 44 | 40 | 37 | 52 | 42 | 56 |
| **Zn** | 67 | 96 | 73 | 92 | 58 | 65 |
| **Zr** | 492 | 454 | 509 | 660 | 324 | 405 |
| **Co** | | | | 0.8 | | 0.9 |
| **Ga** | | | | 22.7 | | 20.9 |
| **Cs** | | | | 0.9 | | 2.1 |
| **Hf** | | | | 16.7 | | 11.2 |
| **Ta** | | | | 1.7 | | 2.2 |
| **W** | | | | 3.1 | | 2.1 |
| **Pb** | | | | 13.2 | | 26.4 |
| **Th** | | | | 11.0 | | 37.0 |
| **U** | | | | 2.9 | | 7.6 |
| **La** | | | | 90.6 | | 122.0 |
| **Ce** | | | | 172.0 | | 194.0 |
| **Pr** | | | | 20.7 | | 25.2 |
| **Nd** | | | | 78.9 | | 90.8 |
| **Sm** | | | | 15.2 | | 16.7 |
| **Eu** | | | | 3.6 | | 0.7 |
| **Gd** | | | | 13.2 | | 15.1 |
| **Tb** | | | | 1.8 | | 2.0 |
| **Dy** | | | | 9.6 | | 10.5 |
| **Ho** | | | | 1.8 | | 1.9 |
| **Er** | | | | 5.3 | | 5.6 |
| **Tm** | | | | 0.7 | | 0.8 |
| **Yb** | | | | 5.1 | | 5.2 |
| **Lu** | | | | 0.8 | | 0.7 |

**UTM coordinates (all zone 11T, NAD 27 CONUS datum)**

| | | | | | | |
|---|---|---|---|---|---|---|
| **Northing** | 626811 | 626785 | 626417 | 601263 | 598102 | 608066 |
| **Easting** | 4617104 | 4617085 | 4617462 | 4600283 | 4615934 | 4631173 |

**Jarbidge Rhyolite**

| Sample | JC-09-18 | JC-09-21A | JC-09-21B | JC-09-22 |
|---|---|---|---|---|
| SiO2 | 72.42 | 74.61 | 75.33 | 76.39 |
| TiO2 | 0.24 | 0.33 | 0.31 | 0.37 |
| Al2O3 | 12.53 | 13.84 | 13.42 | 11.83 |
| Fe2O3 | 2.15 | 1.25 | 1.17 | 1.42 |
| MnO | 0.03 | 0.01 | 0.01 | 0.01 |
| MgO | 0.05 | 0.05 | 0.05 | 0.05 |
| CaO | 0.85 | 1.21 | 1.10 | 0.95 |
| Na2O | 2.73 | 2.97 | 2.86 | 2.79 |
| K2O | 6.02 | 5.50 | 5.52 | 5.01 |
| P2O5 | 0.06 | 0.07 | 0.07 | 0.08 |
| LOI | 2.13 | 0.34 | 0.48 | 0.33 |
| Total | 99.21 | 100.17 | 100.30 | 99.24 |

| Sample | JC-09-18 | JC-09-21A | JC-09-21B | JC-09-22 |
|---|---|---|---|---|
| Ba | 516 | 1597 | 1581 | 1798 |
| Cr | 1.0 | 3.7 | 3.0 | 4.2 |
| Cu | 8.2 | 3.7 | 3.2 | 4.0 |
| Nb | 22 | 22 | 19 | 22 |
| Ni | 21 | 10 | 13 | 19 |
| Rb | 229 | 184 | 180 | 155 |
| Sr | 45 | 173 | 165 | 131 |
| Sc | 4.0 | 6.6 | 6.0 | 4.1 |
| V | 1.2 | 5.7 | 3.6 | 3.2 |
| Y | 48 | 39 | 39 | 31 |
| Zn | 81 | 57 | 61 | 74 |
| Zr | 380 | 360 | 338 | 441 |
| Co | | 1.0 | | |
| Ga | | 22.6 | | |
| Cs | | 1.6 | | |
| Hf | | 9.7 | | |
| Ta | | 1.4 | | |
| W | | 1.6 | | |
| Pb | | 16.1 | | |
| Th | | 18.5 | | |
| U | | 3.8 | | |
| La | | 94.3 | | |
| Ce | | 175.0 | | |
| Pr | | 20.1 | | |
| Nd | | 73.1 | | |
| Sm | | 13.6 | | |
| Eu | | 1.9 | | |
| Gd | | 11.5 | | |
| Tb | | 1.5 | | |
| Dy | | 8.0 | | |
| Ho | | 1.5 | | |
| Er | | 4.3 | | |
| Tm | | 0.6 | | |
| Yb | | 4.0 | | |
| Lu | | 0.6 | | |

**UTM coordinates (all zone 11T, NAD 27 CONUS datum)**

| | | | | |
|---|---|---|---|---|
| Northing | 607886 | 599562 | 599562 | 666387 |
| Easting | 4630336 | 4621420 | 4621420 | 4548547 |

**Seventy-Six Basalt**

| Sample | JC-08-14 | JC-08-15 | JC-08-16 | JC-09-19 | JC-09-20 |
|---|---|---|---|---|---|
| **SiO2** | 48.57 | 48.51 | 48.67 | 50.70 | 50.38 |
| **TiO2** | 1.83 | 1.80 | 1.83 | 1.89 | 1.90 |
| **Al2O3** | 18.08 | 18.08 | 18.14 | 16.12 | 15.86 |
| **Fe2O3** | 11.41 | 11.31 | 11.17 | 13.37 | 13.04 |
| **MnO** | 0.17 | 0.17 | 0.17 | 0.18 | 0.19 |
| **MgO** | 4.20 | 4.36 | 4.07 | 5.60 | 5.27 |
| **CaO** | 8.24 | 8.12 | 8.19 | 7.93 | 8.26 |
| **Na2O** | 3.89 | 3.63 | 3.80 | 3.04 | 2.85 |
| **K2O** | 1.44 | 1.66 | 1.41 | 1.25 | 1.15 |
| **P2O5** | 0.52 | 0.51 | 0.52 | 0.47 | 0.46 |
| **LOI** | 0.76 | 0.92 | 0.48 | 0.20 | 0.66 |
| **Total** | 99.11 | 99.06 | 98.46 | 100.76 | 100.04 |
| | | | | | 100.08 |
| **Sample** | **JC-08-14** | **JC-08-15** | **JC-08-16** | **JC-09-19** | **JC-09-20** |
| **Ba** | 717 | 705 | 730 | 727 | 688 |
| **Cr** | 21.3 | 27.2 | 26.4 | 61.4 | 59.1 |
| **Cu** | 25.3 | 26.2 | 24.8 | 36.4 | 32.9 |
| **Nb** | | | | | |
| **Ni** | 19.9 | 21.8 | 192 | 35.4 | 34.1 |
| **Rb** | 27.7 | 41.9 | 28.0 | 11.1 | 20.4 |
| **Sr** | 566 | 602 | 582 | 421 | 409 |
| **Sc** | 22.5 | 22.7 | 21.3 | 31.8 | 29.3 |
| **V** | 102 | 103 | 101 | 166 | 155 |
| **Y** | 36.3 | 36.9 | 36.3 | 44.9 | 40.1 |
| **Zn** | 82 | 123 | 140 | 137 | 126 |
| **Zr** | 192 | 232 | 212 | 281 | 272 |
| **Co** | | 32.9 | | 44.7 | |
| **Ga** | | 20.8 | | 22.0 | |
| **Cs** | | 0.7 | | 0.5 | |
| **Hf** | | 5.1 | | 6.8 | |
| **Ta** | | 1.4 | | 1.3 | |
| **W** | | 1.0 | | 1.7 | |
| **Pb** | | 0.9 | | 2.3 | |
| **Th** | | 2.1 | | 2.6 | |
| **U** | | 0.5 | | 0.7 | |
| **La** | | 32.6 | | 40.9 | |
| **Ce** | | 66.9 | | 83.1 | |
| **Pr** | | 8.2 | | 9.8 | |
| **Nd** | | 34.8 | | 40.9 | |
| **Sm** | | 7.7 | | 9.2 | |
| **Eu** | | 2.2 | | 2.4 | |
| **Gd** | | 7.4 | | 8.8 | |
| **Tb** | | 1.1 | | 1.4 | |
| **Dy** | | 6.6 | | 8.0 | |
| **Ho** | | 1.3 | | 1.6 | |
| **Er** | | 3.7 | | 4.6 | |
| **Tm** | | 0.5 | | 0.6 | |
| **Yb** | | 3.6 | | 4.5 | |
| **Lu** | | 0.5 | | 0.7 | |

**UTM coordinates (all zone 11T, NAD 27 CONUS datum)**

| | | | | | |
|---|---|---|---|---|---|
| **Northing** | 628096 | 628219 | 628045 | 603659 | 598310 |
| **Easting** | 4623553 | 4623475 | 4623126 | 4623693 | 4625109 |

**DCP major element standard data**

| Sample | measured AGV-2 | accepted AGV-2 | % difference | measured BCR-2 | accepted BCR-2 | % difference | measured BHVO-2 | accepted BHVO-2 | % difference | measured GSP-2 | accepted GSP-2 | % difference | measured JR-3 | accepted JR-3 | % difference |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SiO2 | 60.49 | 59.30 | 2.0 | 54.39 | 54.10 | 0.53 | 50.03 | 49.90 | 0.3 | 66.98 | 66.60 | 0.6 | 73.17 | 72.48 | 1.0 |
| TiO2 | 1.05 | 1.05 | 0.0 | 2.26 | 2.26 | 0.04 | 2.73 | 2.73 | 0.1 | 0.67 | 0.66 | 0.9 | 0.21 | 0.21 | 0.5 |
| Al2O3 | 17.06 | 16.91 | 0.9 | 13.36 | 13.50 | 1.04 | 13.51 | 13.50 | 0.1 | 14.76 | 14.90 | 0.9 | 11.94 | 12.00 | 0.5 |
| Fe2O3 | 6.79 | 6.69 | 1.5 | 13.70 | 13.80 | 0.71 | 12.36 | 12.30 | 0.5 | 4.84 | 4.90 | 1.3 | 4.65 | 4.74 | 1.9 |
| MnO | 0.10 | 0.10 | 0.0 | 0.20 | 0.20 | 0.00 | 0.17 | 0.17 | 2.4 | 0.04 | 0.04 | 0.0 | 0.08 | 0.08 | 3.6 |
| MgO | 1.78 | 1.79 | 0.8 | 3.60 | 3.59 | 0.31 | 7.04 | 7.23 | 2.7 | 0.95 | 0.96 | 0.7 | 0.05 | 0.05 | 3.9 |
| CaO | 5.16 | 5.20 | 0.9 | 7.12 | 7.12 | 0.01 | 11.43 | 11.40 | 0.2 | 2.12 | 2.10 | 0.8 | 0.16 | 0.10 | 46.3 |
| Na2O | 4.20 | 4.19 | 0.2 | 3.10 | 3.16 | 1.79 | 2.22 | 2.22 | 0.1 | 2.76 | 2.78 | 0.8 | 4.71 | 4.69 | 0.5 |
| K2O | 2.96 | 2.88 | 2.8 | 1.79 | 1.79 | 0.11 | 0.51 | 0.52 | 1.7 | 5.35 | 5.38 | 0.5 | 4.23 | 4.31 | 1.8 |
| P2O5 | 0.06 | 0.48 | 156.2 | 0.22 | 0.35 | 47.79 | 0.10 | 0.27 | 90.3 | 0.35 | 0.29 | 19.0 | 0.17 | 0.01 | 179.3 |
| Total | 100.08 | 98.59 | 1.5 | 99.74 | 99.87 | 0.14 | 100.36 | 100.24 | 0.1 | 98.82 | 98.61 | 0.2 | 99.38 | 98.67 | 0.7 |

| Sample | measured BE-N | accepted BE-N | % difference | measured DNC-1 | accepted DNC-1 | % difference | measured G-2 | accepted G-2 | % difference | measured JG-2 | accepted JG-2 | % difference | measured SY-2 | accepted SY-2 | % difference |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SiO2 | 38.16 | 38.20 | 0.1 | 46.76 | 47.04 | 0.6 | 69.57 | 69.14 | 0.6 | 76.86 | 76.95 | 0.1 | 60.36 | 60.11 | 0.4 |
| TiO2 | 2.66 | 2.61 | 1.7 | 0.49 | 0.48 | 1.2 | 0.49 | 0.48 | 1.4 | 0.04 | 0.04 | 0.0 | 0.13 | 0.15 | 11.3 |
| Al2O3 | 10.09 | 10.07 | 0.2 | 18.31 | 18.30 | 0.0 | 15.35 | 15.39 | 0.3 | 12.40 | 12.41 | 0.1 | 12.18 | 12.04 | 1.2 |
| Fe2O3 | 12.89 | 12.84 | 0.4 | 9.94 | 9.93 | 0.1 | 2.67 | 2.66 | 0.5 | 0.95 | 0.92 | 3.6 | 6.29 | 6.31 | 0.3 |
| MnO | 0.20 | 0.20 | 0.0 | 0.15 | 0.15 | 1.4 | 0.03 | 0.03 | 6.5 | 0.02 | 0.02 | 12.5 | 0.32 | 0.32 | 0.3 |
| MgO | 13.08 | 15.00 | 13.7 | 10.10 | 10.05 | 0.5 | 0.74 | 0.75 | 1.7 | 0.04 | 0.04 | 0.0 | 2.66 | 2.69 | 1.1 |
| CaO | 13.95 | 13.87 | 0.6 | 11.23 | 11.27 | 0.4 | 1.94 | 1.96 | 1.1 | 0.73 | 0.80 | 8.6 | 8.02 | 7.96 | 0.7 |
| Na2O | 3.14 | 3.18 | 1.2 | 1.94 | 1.87 | 3.7 | 4.03 | 4.08 | 1.4 | 3.50 | 3.55 | 1.5 | 4.24 | 4.31 | 1.7 |
| K2O | 1.41 | 1.39 | 1.4 | 0.21 | 0.23 | 7.7 | 4.51 | 4.48 | 0.6 | 4.71 | 4.72 | 0.2 | 4.48 | 4.45 | 0.6 |
| P2O5 | 0.98 | 1.05 | 6.9 | 0.13 | 0.09 | 42.6 | 0.10 | 0.14 | 37.3 | 0.19 | 0.02 | 168.9 | 0.78 | 0.43 | 57.3 |
| Total | 96.56 | 96.56 | 0.0 | 98.98 | 99.40 | 0.4 | 99.41 | 99.04 | 0.4 | 99.50 | 99.46 | 0.0 | 99.46 | 98.69 | 0.8 |

**ICP-MS trace/REE standard data (RGM-1)**

| | measured | accepted | % difference |
|---|---|---|---|
| Co | 2.01 | 2 | 0.7 |
| Ga | 16.0 | 15 | 6.5 |
| Cs | 9.45 | 9.6 | 1.6 |
| Hf | 6.22 | 6.2 | 0.3 |
| Ta | 1.04 | 0.95 | 8.9 |
| W | 1.51 | 1.5 | 0.4 |
| Pb | 25.5 | 24 | 6.2 |
| Th | 14.7 | 15.1 | 2.8 |
| U | 5.75 | 5.8 | 0.8 |
| La | 24.7 | 24 | 3.0 |
| Ce | 47.1 | 47 | 0.2 |
| Pr | 5.15 | 4.7 | 9.2 |
| Nd | 19.1 | 19 | 0.3 |
| Sm | 4.04 | 4.3 | 6.1 |
| Eu | 0.638 | 0.66 | 3.4 |
| Gd | 3.68 | 3.7 | 0.6 |
| Tb | 0.598 | 0.66 | 9.8 |
| Dy | 3.68 | 4.08 | 10.4 |
| Ho | 0.757 | 0.95 | 22.6 |
| Er | 2.36 | 2.6 | 9.5 |
| Tm | 0.362 | 0.37 | 2.1 |
| Yb | 2.59 | 2.6 | 0.5 |
| Lu | 0.415 | 0.41 | 1.3 |

**DCP trace element standard data (GSP-2)**

| Sample | measured | accepted | % difference |
|---|---|---|---|
| Ba | 1308 | 1340 | 2.4 |
| Cr | 23 | 20 | 12.7 |
| Cu | 46 | 43 | 5.8 |
| Nb | 28 | 27 | 2.4 |
| Ni | 43 | 17 | 87.4 |
| Rb | 239 | 245 | 2.4 |
| Sr | 230 | 240 | 4.5 |
| Sc | 7.2 | 6.3 | 12.7 |
| V | 49 | 52 | 6.5 |
| Y | 28 | 28 | 0.6 |
| Zn | 117 | 120 | 2.4 |
| Zr | 570 | 550 | 3.6 |

**40Ar/39Ar data to accompany Brueseke et al., Table DR2.**

| | |
|---|---|
| Irradiation Package: | AU-15 |
| Date of Irradiation: | 6/22/10 |
| Monitor Age | 28.02 (Ma, FCS) |
| Air 40Ar/36Ar: | 293.0 ± 1.5 |
| Mass Disc. (% per amu): | -0.0021 ± 0.00102 |
| (36/37)Ca: | 0.00030 ± 2.7E-06 |
| (39/37)Ca: | 0.00084 ± 3.8E-05 |
| (40/39)K: | 0 ± 4E-04 |
| (38/39)Cl: | 0.01 ± 0.01 |
| Date of Irradiation: | 6/22/10 |

All analyses were completed in October of 2010.

Samples were irradiated in the central core positon of the McMaster nuclear reactor in Hamilton, Ontario, with cadmium shielding. Synthetic CaF2 was included with the irradiation to determine calcium production factors, and Fish canyon sanidine (from an aliquot prepared at New Mexico Tech) was used to monitor production of 39ArK, with an assigned age of 28.02 Ma (Renne et al., 1998). Monitors were placed in five of eight possible positions (four alternating radial positions and one central position) for each layer of the irradiaiton package. Vertical variations in J-value for the five layers of the irradiation package for these samples were found to be negligible, but radial variations were significant (up to ~ 2% across a given layer). Aliquots of air from an air pipette were measured daily to evaluate mass discrimination, and procedural blanks were measured following every five analyses of unknowns. Samples were analyzed in the Auburn Noble Isotope Mass Analysis Laboratory (ANIMAL) following gas extraction with a CO2 laser using an automated extraction line, with data collection on an electron multiplier detector. Date presented are in volts unless otherwise indicated, and are corrected for backgrounds, mass discrimination, and decay of short-lived isotopes. 'P' refers to the laser power and 't' to seconds for laser heating; 'R' is the 40Ar*/39ArK ratio. Errors in measurement, individual calculated ages and plateau ages are 1 standard deviation; means are reported at the 95% confidence level. Plateau and biweight mean calculations were made using Isoplot (Ludwig, K.R., 2003, *Isoplot v. 3.0, A geochronology toolkit for Microsoft Excel*, Special Publication #4, Berkeley Geochronology Center).

Representative photographs are provided for the sanidine of each sample. During final selection for analysis, preference would have been given to clear grains free of any matrix, and some samples were briefly washed with dilute HF in an ultrasonic cleaner prior to analysis.

Sanidine phenocrysts of sample JC-09-04. 20-30 mesh size, field of view is ~ 2 mm wide.

| Irradiation Filename | P | t | 40 V | 39 V | 38 V | 37 V | 36 V | Moles 40Ar* | %Rad | R | Age (Ma) | %-sd |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Sample JC-09-04, Single Crystal Total Fusion Results (J=0.0030107+/-0.0000087, 0.29%, 1s) | | | | | | | | | | | | |
| au15.1a.kfs.6a.txt | 1.50 | 10 | 4.73867 ± 0.00163 | 1.6657 ± 0.00117 | 0.02019 ± 0.00008 | 0.03754 ± 0.00032 | 0.0000766 ± 0.0000213 | 2.57E-14 | 100% | 2.83310 | 15.323 ± 0.024 | 0.15% |
| au15.1a.kfs.7a.txt | 1.50 | 10 | 4.55945 ± 0.00384 | 1.6054 ± 0.00121 | 0.01951 ± 0.00011 | 0.03136 ± 0.00030 | 0.0000894 ± 0.0000197 | 2.47E-14 | 99% | 2.82516 | 15.280 ± 0.026 | 0.17% |
| au15.1a.kfs.8a.txt | 1.50 | 10 | 4.64142 ± 0.00358 | 1.6110 ± 0.00204 | 0.01971 ± 0.00010 | 0.03572 ± 0.00038 | 0.0002863 ± 0.0000182 | 2.52E-14 | 98% | 2.83046 | 15.309 ± 0.029 | 0.19% |
| au15.1a.kfs.9a.txt | 1.50 | 10 | 2.90232 ± 0.00155 | 1.0248 ± 0.00115 | 0.01254 ± 0.00009 | 0.02323 ± 0.00022 | 0.0000889 ± 0.0000173 | 1.58E-14 | 99% | 2.80829 | 15.189 ± 0.033 | 0.22% |
| au15.1a.kfs.10a.txt | 1.50 | 10 | 4.36393 ± 0.00280 | 1.4590 ± 0.00232 | 0.01761 ± 0.00007 | 0.04761 ± 0.00049 | 0.0007574 ± 0.0000220 | 2.37E-14 | 95% | 2.84033 | 15.362 ± 0.037 | 0.24% |
| au15.1a.kfs.11a.txt | 1.50 | 10 | 2.81081 ± 0.00150 | 0.9638 ± 0.00146 | 0.01177 ± 0.00006 | 0.02048 ± 0.00027 | 0.0003260 ± 0.0000220 | 1.53E-14 | 97% | 2.81816 | 15.242 ± 0.044 | 0.29% |
| au15.1a.kfs.12a.txt | 1.50 | 10 | 2.91734 ± 0.00261 | 1.0309 ± 0.00100 | 0.01256 ± 0.00009 | 0.02565 ± 0.00044 | 0.0000561 ± 0.0000182 | 1.58E-14 | 100% | 2.81586 | 15.230 ± 0.035 | 0.23% |
| au15.1a.kfs.13a.txt | 1.50 | 10 | 2.43521 ± 0.00208 | 0.8556 ± 0.00171 | 0.01025 ± 0.00007 | 0.02204 ± 0.00028 | 0.0000558 ± 0.0000178 | 1.32E-14 | 99% | 2.82907 | 15.301 ± 0.047 | 0.31% |
| au15.1a.kfs.14a.txt | 1.50 | 10 | 2.24388 ± 0.00366 | 0.7542 ± 0.00121 | 0.00905 ± 0.00006 | 0.01534 ± 0.00024 | 0.0004969 ± 0.0000190 | 1.22E-14 | 94% | 2.78230 | 15.049 ± 0.055 | 0.36% |
| au15.1a.kfs.15a.txt | 1.50 | 10 | 2.78095 ± 0.00226 | 0.9594 ± 0.00146 | 0.01206 ± 0.00017 | 0.02230 ± 0.00033 | 0.0002323 ± 0.0000198 | 1.51E-14 | 98% | 2.82899 | 15.301 ± 0.043 | 0.28% |
| au15.1a.kfs.16a.txt | 1.50 | 10 | 3.31969 ± 0.00282 | 1.1336 ± 0.00097 | 0.01381 ± 0.00007 | 0.04274 ± 0.00033 | 0.0002835 ± 0.0000180 | 1.80E-14 | 98% | 2.85768 | 15.455 ± 0.032 | 0.21% |
| au15.1a.kfs.17a.txt | 1.50 | 10 | 1.14167 ± 0.00118 | 0.4059 ± 0.00085 | 0.00494 ± 0.00007 | 0.00833 ± 0.00031 | 0.0000162 ± 0.0000205 | 6.20E-15 | 100% | 2.80287 | 15.160 ± 0.088 | 0.58% |
| au15.1a.kfs.18a.txt | 1.50 | 10 | 2.01285 ± 0.00253 | 0.6988 ± 0.00089 | 0.00845 ± 0.00005 | 0.01580 ± 0.00027 | 0.0000050 ± 0.0000170 | 1.09E-14 | 100% | 2.88023 | 15.577 ± 0.048 | 0.31% |
| au15.1a.kfs.19a.txt | 1.50 | 10 | 3.34833 ± 0.00338 | 1.1296 ± 0.00120 | 0.01366 ± 0.00008 | 0.03524 ± 0.00048 | 0.0000991 ± 0.0000185 | 1.82E-14 | 99% | 2.94089 | 15.903 ± 0.035 | 0.22% |
| au15.1a.kfs.20a.txt | 1.50 | 10 | 2.89498 ± 0.00242 | 0.9807 ± 0.00141 | 0.01192 ± 0.00009 | 0.02841 ± 0.00039 | 0.0004564 ± 0.0000222 | 1.57E-14 | 95% | 2.81685 | 15.235 ± 0.045 | 0.29% |
| | | | | | | | | Single Crystal Total Gas Ages: | | | 16.280 ± 0.260 | |
| | | | | | | | | | | | 15.303 ± 0.039 | |
| | | | | | | | | | | | 15.390 ± 0.140 | |

Biweight Mean = 15.297±0.061 (±0.175 with J-value error) at the 95% confidence level. MSWD = 22, probability = 0.000

| | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | 15.300 ± 0.160 | |
| **Sample JC-09-04, Incremental Heating Analyses** | | | | | | | | | | | | |
| au15.1a.kfs.5c.txt | 0.38 | 20 | 0.00668 + 0.00024 | 0.0023 + 0.00009 | 0.00006 + 0.00005 | 0.00143 + 0.00017 | -0.0000132 + 0.0000205 | 3.62E-17 | 160% | 2.98903 | 16.2 ± 14.5 | 89% |
| au15.1a.kfs.5e.txt | 0.41 | 20 | 0.01544 + 0.00028 | 0.0051 + 0.00008 | 0.00008 + 0.00004 | 0.00367 + 0.00015 | -0.0000196 + 0.0000195 | 8.38E-17 | 139% | 3.07140 | 16.6 ± 6.1 | 37% |
| au15.1a.kfs.5f.txt | 0.44 | 20 | 0.03756 + 0.00037 | 0.0131 + 0.00017 | 0.00014 + 0.00005 | 0.00953 + 0.00021 | -0.0000102 + 0.0000170 | 2.04E-16 | 110% | 2.93720 | 15.9 ± 2.1 | 13% |
| au15.1a.kfs.5g.txt | 0.48 | 20 | 0.01275 + 0.00034 | 0.0044 + 0.00006 | 0.00008 + 0.00004 | 0.00361 + 0.00010 | -0.0000051 + 0.0000156 | 6.92E-17 | 114% | 2.94495 | 15.9 ± 5.6 | 35% |
| au15.1a.kfs.5h.txt | 0.52 | 20 | 0.03684 + 0.00032 | 0.0130 + 0.00010 | 0.00021 + 0.00003 | 0.01064 + 0.00016 | 0.0000088 + 0.0000192 | 2.00E-16 | 95% | 2.71192 | 14.7 ± 2.4 | 16% |
| au15.1a.kfs.5i.txt | 0.56 | 20 | 0.07902 + 0.00050 | 0.0270 + 0.00013 | 0.00029 + 0.00004 | 0.02337 + 0.00030 | -0.0000251 + 0.0000217 | 4.29E-16 | 112% | 2.99947 | 16.22 ± 1.30 | 8% |
| au15.1a.kfs.5j.txt | 0.60 | 20 | 0.15709 + 0.00049 | 0.0503 + 0.00022 | 0.00056 + 0.00004 | 0.04319 + 0.00028 | 0.0000360 + 0.0000211 | 8.53E-16 | 95% | 2.98420 | 16.136 ± 0.677 | 4% |
| au15.1a.kfs.5k.txt | 0.63 | 20 | 0.02266 + 0.00022 | 0.0076 + 0.00007 | 0.00005 + 0.00002 | 0.00772 + 0.00017 | 0.0000037 + 0.0000190 | 1.23E-16 | 98% | 2.92490 | 15.8 ± 4.01 | 25% |
| au15.1a.kfs.5l.txt | 0.67 | 20 | 0.08281 + 0.00047 | 0.0223 + 0.00009 | 0.00025 + 0.00004 | 0.02380 + 0.00029 | 0.0000066 + 0.0000185 | 4.49E-16 | 100% | 3.72439 | 20.117 ± 1.335 | 7% |
| au15.1a.kfs.5m.txt | 0.71 | 20 | 0.18041 + 0.00048 | 0.0506 + 0.00019 | 0.00063 + 0.00004 | 0.05900 + 0.00037 | 0.0001086 + 0.0000207 | 9.79E-16 | 85% | 3.02738 | 16.369 ± 0.662 | 4% |
| au15.1a.kfs.5n.txt | 0.75 | 20 | 0.09108 + 0.00040 | 0.0294 + 0.00015 | 0.00031 + 0.00003 | 0.03320 + 0.00015 | 0.0000220 + 0.0000198 | 4.94E-16 | 96% | 2.97591 | 16.092 ± 1.089 | 7% |
| au15.1a.kfs.5o.txt | 0.80 | 20 | 0.15404 + 0.00041 | 0.0486 + 0.00017 | 0.00065 + 0.00006 | 0.05565 + 0.00050 | 0.0000343 + 0.0000199 | 8.36E-16 | 96% | 3.05838 | 16.536 ± 0.659 | 4% |
| au15.1a.kfs.5p.txt | 0.90 | 10 | 0.04994 + 0.00036 | 0.0166 + 0.00011 | 0.00019 + 0.00003 | 0.01925 + 0.00027 | 0.0000218 + 0.0000193 | 2.71E-16 | 90% | 2.71133 | 14.667 ± 1.870 | 13% |
| au15.1a.kfs.5q.txt | 1.00 | 10 | 0.18203 + 0.00033 | 0.0593 + 0.00023 | 0.00075 + 0.00004 | 0.07149 + 0.00081 | 0.0000330 + 0.0000201 | 9.88E-16 | 98% | 3.00620 | 16.255 ± 0.549 | 3% |
| au15.1a.kfs.5r.txt | 1.10 | 10 | 0.07448 + 0.00034 | 0.0247 + 0.00012 | 0.00017 + 0.00006 | 0.02841 + 0.00044 | 0.0000040 + 0.0000172 | 4.04E-16 | 101% | 3.06339 | 16.563 ± 1.122 | 7% |
| au15.1a.kfs.5s.txt | 1.20 | 10 | 0.03148 + 0.00031 | 0.0104 + 0.00008 | 0.00010 + 0.00003 | 0.01213 + 0.00036 | 0.0000183 + 0.0000193 | 1.71E-16 | 86% | 2.6151568 | 14.149 ± 2.994 | 21% |
| au15.1a.kfs.5t.txt | 1.30 | 10 | 0.04102 + 0.00043 | 0.0134 + 0.00012 | 0.00019 + 0.00003 | 0.01574 + 0.00022 | 0.0000470 + 0.0000188 | 2.23E-16 | 69% | 2.1185891 | 11.471 ± 2.256 | 20% |
| au15.1a.kfs.5u.txt | 1.50 | 10 | 0.05837 + 0.00030 | 0.0194 + 0.00009 | 0.00022 + 0.00002 | 0.02238 + 0.00027 | 0.0000181 + 0.0000171 | 3.17E-16 | 94% | 2.8297934 | 15.305 ± 1.416 | 9% |
| Plateau Age = 16.39±0.27 Ma (1s) MSWD = 0.68, probability = 0.81 92.1% of the 39Ar, steps 1 through 16. Total Gas Age = 16.28±0.26 Ma | | | | | | | | | | | | |
| au15.1a.kfs.4a.txt | 0.35 | 20 | 0.00394 + 0.00026 | 0.0006 + 0.00004 | -0.00002 + 0.00004 | 0.00011 + 0.00018 | -0.0000082 + 0.0000168 | 2.14E-17 | 162% | 6.5742246 | 35.4 ± 44.59 | 126% |
| au15.1a.kfs.4b.txt | 0.40 | 20 | 0.02300 + 0.00026 | 0.0071 + 0.00006 | 0.00012 + 0.00004 | 0.00038 + 0.00010 | 0.0000245 + 0.0000176 | 1.25E-16 | 69% | 2.2209166 | 12.02 ± 3.98 | 33% |
| au15.1a.kfs.4c.txt | 0.45 | 20 | 0.11200 + 0.00044 | 0.0384 + 0.00030 | 0.00040 + 0.00005 | 0.00109 + 0.00019 | 0.0000146 + 0.0000194 | 6.08E-16 | 96% | 2.8069803 | 15.182 ± 0.821 | 5% |
| au15.1a.kfs.4d.txt | 0.50 | 20 | 0.01935 + 0.00025 | 0.0066 + 0.00007 | 0.00005 + 0.00004 | 0.00044 + 0.00018 | -0.0000131 + 0.0000168 | 1.05E-16 | 120% | 2.9191155 | 15.79 ± 4.05 | 26% |
| au15.1a.kfs.4e.txt | 0.55 | 20 | 0.07037 + 0.00041 | 0.0243 + 0.00012 | 0.00029 + 0.00005 | 0.00097 + 0.00016 | 0.0000055 + 0.0000181 | 3.82E-16 | 98% | 2.8280686 | 15.296 ± 1.200 | 8% |
| au15.1a.kfs.4f.txt | 0.60 | 20 | 1.05732 + 0.00145 | 0.3697 + 0.00065 | 0.00456 + 0.00006 | 0.01052 + 0.00033 | 0.0000232 + 0.0000185 | 5.74E-15 | 99% | 2.8440355 | 15.382 ± 0.087 | 1% |
| au15.1a.kfs.4g.txt | 0.64 | 20 | 0.30911 + 0.00051 | 0.1083 + 0.00038 | 0.00127 + 0.00004 | 0.00282 + 0.00007 | 0.0000031 + 0.0000184 | 1.68E-15 | 100% | 2.8471978 | 15.399 ± 0.278 | 2% |
| au15.1a.kfs.4h.txt | 0.68 | 20 | 1.89461 + 0.00197 | 0.6695 + 0.00082 | 0.00826 + 0.00005 | 0.01744 + 0.00033 | 0.0000156 + 0.0000164 | 1.03E-14 | 100% | 2.8251987 | 15.280 ± 0.046 | 0% |
| au15.1a.kfs.4i.txt | 0.72 | 20 | 0.01810 + 0.00038 | 0.0064 + 0.00006 | 0.00004 + 0.00003 | 0.00004 + 0.00018 | -0.0000036 + 0.0000181 | 9.82E-17 | 106% | 2.8258413 | 15.28 ± 4.549 | 30% |
| au15.1a.kfs.4j.txt | 0.76 | 20 | 0.23419 + 0.00038 | 0.0821 + 0.00018 | 0.00097 + 0.00006 | 0.00218 + 0.00013 | 0.0000088 + 0.0000199 | 1.27E-15 | 99% | 2.82393 | 15.273 ± 0.392 | 3% |
| au15.1a.kfs.4k.txt | 0.80 | 20 | 0.56522 + 0.00099 | 0.1991 + 0.00050 | 0.00244 + 0.00006 | 0.00541 + 0.00016 | 0.0000084 + 0.0000175 | 3.07E-15 | 100% | 2.8279966 | 15.295 ± 0.148 | 1% |
| au15.1a.kfs.4l.txt | 0.84 | 20 | 0.02995 + 0.00026 | 0.0104 + 0.00007 | 0.00006 + 0.00003 | 0.00053 + 0.00016 | -0.0000185 + 0.0000170 | 1.63E-16 | 118% | 2.8864101 | 15.61 ± 2.623 | 17% |
| au15.1a.kfs.4m.txt | 0.88 | 20 | 0.00496 + 0.00018 | 0.0019 + 0.00006 | 0.00003 + 0.00004 | 0.00012 + 0.00014 | -0.0000275 + 0.0000152 | 2.69E-17 | 264% | 2.6451198 | 14.31 ± 13.063 | 91% |
| au15.1a.kfs.4n.txt | 0.92 | 20 | 0.04296 + 0.00031 | 0.0153 + 0.00011 | 0.00016 + 0.00004 | 0.00010 + 0.00013 | -0.0000309 + 0.0000184 | 2.33E-16 | 121% | 2.8042403 | 15.167 ± 1.934 | 13% |
| Plateau Age = 15.303±0.039 Ma (1s) MSWD = 0.16, probability = 1.000. 100% of the 39Ar, steps 1 through 14 | | | | | | | | | | | | |
| au15.1a.kfs.3b.txt | 0.40 | 20 | 0.04597 + 0.00023 | 0.0151 + 0.00008 | 0.00022 + 0.00004 | 0.00067 + 0.00016 | 0.0000401 + 0.0000188 | 2.49E-16 | 74% | 2.2671509 | 12.27 ± 2.00 | 16% |
| au15.1a.kfs.3c.txt | 0.45 | 20 | 0.02648 + 0.00019 | 0.0092 + 0.00011 | 0.00011 + 0.00003 | 0.00023 + 0.00016 | 0.0000110 + 0.0000205 | 1.44E-16 | 88% | 2.5236659 | 13.66 ± 3.57 | 26% |
| au15.1a.kfs.3d.txt | 0.50 | 20 | 0.15365 + 0.00047 | 0.0541 + 0.00035 | 0.00072 + 0.00003 | 0.00116 + 0.00022 | -0.0000043 + 0.0000198 | 8.34E-16 | 101% | 2.8398141 | 15.359 ± 0.595 | 4% |
| au15.1a.kfs.3e.txt | 0.55 | 20 | 0.15265 + 0.00082 | 0.0538 + 0.00029 | 0.00065 + 0.00003 | 0.00105 + 0.00020 | 0.0000369 + 0.0000198 | 8.28E-16 | 93% | 2.6361758 | 14.262 ± 0.601 | 4% |
| au15.1a.kfs.3f.txt | 0.60 | 20 | 1.08805 + 0.00188 | 0.3682 + 0.00111 | 0.00455 + 0.00005 | 0.00756 + 0.00026 | 0.0000530 + 0.0000164 | 5.91E-15 | 99% | 2.9139757 | 15.758 ± 0.091 | 1% |
| au15.1a.kfs.3g.txt | 0.64 | 20 | 0.29448 + 0.00041 | 0.1031 + 0.00043 | 0.00126 + 0.00005 | 0.00229 + 0.00019 | 0.0000213 + 0.0000192 | 1.60E-15 | 98% | 2.7960114 | 15.123 ± 0.306 | 2% |
| au15.1a.kfs.3h.txt | 0.68 | 20 | 0.72600 + 0.00121 | 0.2565 + 0.00036 | 0.00306 + 0.00005 | 0.00535 + 0.00024 | 0.0000558 + 0.0000187 | 3.94E-15 | 98% | 2.7683513 | 14.974 ± 0.121 | 1% |
| au15.1a.kfs.3i.txt | 0.72 | 20 | 0.65718 + 0.00086 | 0.2311 + 0.00051 | 0.00289 + 0.00006 | 0.00449 + 0.00018 | 0.0000018 + 0.0000164 | 3.57E-15 | 100% | 2.8428236 | 15.375 ± 0.121 | 1% |
| au15.1a.kfs.3j.txt | 0.76 | 20 | 0.92784 + 0.00094 | 0.3270 + 0.00088 | 0.00394 + 0.00007 | 0.00661 + 0.00031 | 0.0000010 + 0.0000186 | 5.04E-15 | 100% | 2.8382295 | 15.350 ± 0.101 | 1% |
| au15.1a.kfs.3k.txt | 0.80 | 20 | 1.25543 + 0.00259 | 0.4408 + 0.00094 | 0.00539 + 0.00009 | 0.00930 + 0.00018 | 0.0000120 + 0.0000177 | 6.81E-15 | 100% | 2.8419425 | 15.370 ± 0.079 | 1% |
| au15.1a.kfs.3l.txt | 0.84 | 20 | 0.45336 + 0.00056 | 0.1599 + 0.00056 | 0.00185 + 0.00004 | 0.00303 + 0.00017 | -0.0000209 + 0.0000208 | 2.46E-15 | 101% | 2.8373295 | 15.346 ± 0.216 | 1% |
| au15.1a.kfs.3m.txt | 0.88 | 20 | 0.22844 + 0.00028 | 0.0793 + 0.00025 | 0.00093 + 0.00004 | 0.00120 + 0.00016 | 0.0000018 + 0.0000161 | 1.24E-15 | 100% | 2.8754801 | 15.551 ± 0.329 | 2% |
| au15.1a.kfs.3n.txt | 0.92 | 20 | 0.10607 + 0.00037 | 0.0377 + 0.00037 | 0.00042 + 0.00003 | 0.00046 + 0.00018 | 0.0000194 + 0.0000162 | 5.76E-16 | 95% | 2.6662266 | 14.424 ± 0.708 | 5% |
| au15.1a.kfs.3o.txt | 0.96 | 20 | 0.12805 + 0.00042 | 0.0454 + 0.00026 | 0.00045 + 0.00005 | 0.00042 + 0.00015 | -0.0000032 + 0.0000170 | 6.95E-16 | 101% | 2.8203835 | 15.254 ± 0.609 | 4% |
| au15.1a.kfs.3p.txt | 1.00 | 10 | 0.11181 + 0.00042 | 0.0392 + 0.00020 | 0.00056 + 0.00003 | 0.00080 + 0.00018 | -0.0000110 + 0.0000160 | 6.07E-16 | 103% | 2.8529062 | 15.429 ± 0.659 | 4% |
| au15.1a.kfs.3q.txt | 1.10 | 10 | 0.02383 + 0.00019 | 0.0086 + 0.00010 | 0.00011 + 0.00003 | -0.00001 + 0.00020 | -0.0000006 + 0.0000176 | 1.29E-16 | 101% | 2.7594678 | 14.93 ± 3.280 | 22% |
| au15.1a.kfs.3r.txt | 1.50 | 10 | 0.09351 + 0.00029 | 0.0326 + 0.00015 | 0.00041 + 0.00004 | 0.00058 + 0.00012 | -0.0000167 + 0.0000191 | 5.08E-16 | 105% | 2.8687555 | 15.515 ± 0.944 | 6% |
| Plateau Age = 15.298±0.048 Ma (1s), MSWD = 1.12, probability = 0.34, 76.4% of the 39Ar, steps 6 through 16. Total gas age = 15.39±0.14 Ma. | | | | | | | | | | | | |
| au15.1a.kfs.2b.txt | 0.40 | 20 | 0.03893 + 0.00029 | 0.0100 + 0.00007 | 0.00013 + 0.00003 | 0.00034 + 0.00020 | 0.0000499 + 0.0000156 | 2.11E-16 | 62% | 2.415806 | 13.07 ± 2.50 | 19% |
| au15.1a.kfs.2c.txt | 0.45 | 20 | 0.06823 + 0.00055 | 0.0237 + 0.00010 | 0.00027 + 0.00004 | 0.00045 + 0.00018 | -0.0000176 + 0.0000143 | 3.70E-16 | 108% | 2.8854535 | 15.605 ± 0.981 | 6% |
| au15.1a.kfs.2d.txt | 0.50 | 20 | 0.07159 + 0.00042 | 0.0250 + 0.00009 | 0.00031 + 0.00005 | 0.00088 + 0.00025 | 0.0000431 + 0.0000133 | 3.89E-16 | 82% | 2.3568117 | 12.756 ± 0.860 | 7% |
| au15.1a.kfs.2e.txt | 0.54 | 20 | 0.28586 + 0.00039 | 0.1002 + 0.00040 | 0.00127 + 0.00003 | 0.00247 + 0.00016 | 0.0000199 + 0.0000159 | 1.55E-15 | 98% | 2.7966329 | 15.126 ± 0.262 | 2% |
| au15.1a.kfs.2f.txt | 0.58 | 20 | 0.57417 + 0.00078 | 0.1953 + 0.00039 | 0.00237 + 0.00004 | 0.00550 + 0.00027 | 0.0000213 + 0.0000142 | 3.12E-15 | 99% | 2.9099444 | 15.737 ± 0.123 | 1% |
| au15.1a.kfs.2g.txt | 0.62 | 20 | 1.22839 + 0.00159 | 0.4367 + 0.00064 | 0.00529 + 0.00005 | 0.01287 + 0.00025 | 0.0000450 + 0.0000156 | 6.67E-15 | 99% | 2.7847855 | 15.063 ± 0.065 | 0% |
| au15.1a.kfs.2h.txt | 0.66 | 20 | 0.95904 + 0.00103 | 0.3353 + 0.00084 | 0.00413 + 0.00007 | 0.01014 + 0.00017 | 0.0000026 + 0.0000170 | 5.21E-15 | 100% | 2.8604642 | 15.470 ± 0.092 | 1% |
| au15.1a.kfs.2i.txt | 0.70 | 20 | 0.90040 + 0.00072 | 0.2947 + 0.00056 | 0.00351 + 0.00005 | 0.00847 + 0.00031 | 0.0002150 + 0.0000197 | 4.89E-15 | 93% | 2.8422375 | 15.372 ± 0.112 | 1% |
| au15.1a.kfs.2j.txt | 0.74 | 20 | 0.22454 + 0.00029 | 0.0780 + 0.00019 | 0.00092 + 0.00005 | 0.00205 + 0.00021 | -0.0000031 + 0.0000140 | 1.22E-15 | 100% | 2.8805171 | 15.578 ± 0.291 | 2% |
| au15.1a.kfs.2k.txt | 0.78 | 20 | 0.28517 + 0.00034 | 0.0991 + 0.00024 | 0.00123 + 0.00004 | 0.00304 + 0.00023 | -0.0000458 + 0.0000184 | 1.55E-15 | 105% | 2.8805868 | 15.579 ± 0.301 | 2% |
| au15.1a.kfs.2l.txt | 0.82 | 20 | 0.28398 + 0.00025 | 0.1004 + 0.00034 | 0.00128 + 0.00004 | 0.00252 + 0.00025 | -0.0000133 + 0.0000229 | 1.54E-15 | 101% | 2.8300712 | 15.307 ± 0.370 | 2% |
| au15.1a.kfs.2m.txt | 0.86 | 20 | 0.16387 + 0.00061 | 0.0574 + 0.00018 | 0.00070 + 0.00004 | 0.00169 + 0.00016 | -0.0000023 + 0.0000198 | 8.89E-16 | 100% | 2.855189 | 15.442 ± 0.557 | 4% |
| au15.1a.kfs.2n.txt | 0.90 | 20 | 0.23540 + 0.00042 | 0.0815 + 0.00023 | 0.00101 + 0.00004 | 0.00220 + 0.00023 | -0.0000216 + 0.0000215 | 1.28E-15 | 103% | 2.8889324 | 15.623 ± 0.426 | 3% |
| au15.1a.kfs.2o.txt | 0.95 | 20 | 0.01175 + 0.00024 | 0.0043 + 0.00007 | 0.00010 + 0.00004 | 0.00023 + 0.00019 | -0.0000177 + 0.0000191 | 6.38E-17 | 145% | 2.7438296 | 14.8 ± 7.131 | 48% |
| au15.1a.kfs.2p.txt | 1.00 | 10 | 0.00915 + 0.00030 | 0.0034 + 0.00005 | 0.00007 + 0.00005 | 0.00001 + 0.00019 | -0.0000237 + 0.0000175 | 4.96E-17 | 176% | 2.6988234 | 14.6 ± 8.315 | 57% |
| Age = 15.446±0.065 Ma (1s), MSWD = 0.15, probability = 0.996, 57.1% of the 39Ar, steps 7 through 15. Total gas age = 15.30±0.16 Ma. | | | | | | | | | | | | |
| au15.1a.kfs.1d.txt | 0.50 | 20 | 0.05079 + 0.00034 | 0.0011 + 0.00004 | 0.00002 + 0.00004 | -0.00014 + 0.00012 | 0.0001321 + 0.0000148 | 2.76E-16 | 23% | 10.312338 | 55.2 ± 23.2 | 0.41907 |
| au15.1a.kfs.1g.txt | 0.59 | 20 | 0.01338 + 0.00024 | 0.0042 + 0.00005 | 0.00005 + 0.00004 | 0.00062 + 0.00021 | 0.0000211 + 0.0000200 | 7.26E-17 | 54% | 1.7206127 | 9.3 ± 7.68 | 82% |
| au15.1a.kfs.1h.txt | 0.62 | 20 | 0.01409 + 0.00023 | 0.0047 + 0.00006 | 0.00011 + 0.00004 | 0.00058 + 0.00015 | 0.0000025 + 0.0000192 | 7.65E-17 | 95% | 2.8216444 | 15.3 ± 6.49 | 42% |
| au15.1a.kfs.1i.txt | 0.65 | 20 | 0.06128 + 0.00033 | 0.0207 + 0.00010 | 0.00031 + 0.00004 | 0.00101 + 0.00015 | 0.0000169 + 0.0000180 | 3.33E-16 | 92% | 2.7225114 | 14.73 ± 1.40 | 9% |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|
| au15.1a.kfs.1j.txt | 0.68 | 20 | 0.08370 + 0.00026 | 0.0288 + 0.00013 | 0.00030 + 0.00005 | 0.00088 + 0.00019 | -0.0000083 + 0.0000196 | 4.54E-16 | 103% | 2.9097492 | 15.736 ± 1.096 | 7% |
| au15.1a.kfs.1k.txt | 0.71 | 20 | 0.13602 + 0.00032 | 0.0468 + 0.00013 | 0.00062 + 0.00003 | 0.00116 + 0.00015 | -0.0000711 + 0.0000222 | 7.38E-16 | 116% | 2.9088509 | 15.731 ± 0.761 | 5% |
| au15.1a.kfs.1l.txt | 0.75 | 20 | 0.80157 + 0.00138 | 0.2564 + 0.00057 | 0.00319 + 0.00005 | 0.00725 + 0.00018 | 0.0000308 + 0.0000172 | 4.35E-15 | 99% | 3.0933958 | 16.724 ± 0.118 | 1% |
| au15.1a.kfs.1m.txt | 0.80 | 20 | 0.90749 + 0.00170 | 0.3188 + 0.00077 | 0.00394 + 0.00003 | 0.00874 + 0.00023 | 0.0000477 + 0.0000155 | 4.93E-15 | 99% | 2.804418 | 15.168 ± 0.091 | 1% |
| au15.1a.kfs.1n.txt | 0.85 | 20 | 0.32695 + 0.00023 | 0.1153 + 0.00039 | 0.00143 + 0.00004 | 0.00307 + 0.00018 | 0.0000282 + 0.0000154 | 1.77E-15 | 98% | 2.7648913 | 14.955 ± 0.220 | 1% |
| au15.1a.kfs.1o.txt | 0.90 | 20 | 0.86022 + 0.00088 | 0.2986 + 0.00075 | 0.00367 + 0.00004 | 0.00877 + 0.00026 | 0.0000703 + 0.0000147 | 4.67E-15 | 98% | 2.813482 | 15.217 ± 0.089 | 1% |
| au15.1a.kfs.1p.txt | 9.50 | 10 | 3.10437 + 0.00380 | 0.9990 + 0.00161 | 0.01240 + 0.00008 | 0.02769 + 0.00031 | 0.0008742 + 0.0000183 | 1.68E-14 | 92% | 2.8511692 | 15.420 ± 0.045 | 0% |

No Plateau

Sanidine phenocrysts of sample JC-09-08. 20-30 mesh size, field of view is ~ 2 mm wide.

**JC-09-08, Single Crystal Analyses (J=.0029553+/-.0000089, 0.30%, 1s)**

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|---|---|---|---|---|---|---|---|---|---|---|---|---|
| au15.1b.kfs.26a.txt | 1.50 | 10 | 4.76858 ± 0.00296 | 1.4070 ± 0.00078 | 0.01750 ± 0.00007 | 0.03425 ± 0.00034 | 0.0027134 ± 0.0000281 | 2.59E-14 | 83% | 2.82126 | 14.969 ± 0.035 | 0.23% |
| au15.1b.kfs.27a.txt | 1.50 | 10 | 21.82510 ± 0.01084 | 1.7140 ± 0.00134 | 0.03192 ± 0.00019 | 0.05936 ± 0.00024 | 0.0584433 ± 0.0001657 | 1.18E-13 | 21% | 2.66044 | 14.119 ± 0.171 | 1.20% |
| au15.1b.kfs.28a.txt | 1.50 | 10 | 2.34627 ± 0.00177 | 0.7853 ± 0.00059 | 0.00965 ± 0.00011 | 0.02024 ± 0.00027 | 0.0004347 ± 0.0000215 | 1.27E-14 | 95% | 2.82642 | 14.997 ± 0.047 | 0.31% |
| au15.1b.kfs.29a.txt | 1.50 | 10 | 10.75062 ± 0.00679 | 1.6300 ± 0.00292 | 0.02400 ± 0.00018 | 0.03889 ± 0.00023 | 0.0210949 ± 0.0000836 | 5.83E-14 | 42% | 2.77315 | 14.715 ± 0.112 | 0.75% |
| au15.1b.kfs.30a.txt | 1.50 | 10 | 3.73380 ± 0.00389 | 1.1890 ± 0.00187 | 0.01483 ± 0.00012 | 0.02778 ± 0.00041 | 0.0012329 ± 0.0000229 | 2.03E-14 | 90% | 2.83582 | 15.046 ± 0.044 | 0.29% |
| au15.1b.kfs.31a.txt | 1.50 | 10 | 3.54340 ± 0.00326 | 1.1262 ± 0.00100 | 0.01407 ± 0.00006 | 0.02868 ± 0.00024 | 0.0010813 ± 0.0000187 | 1.92E-14 | 91% | 2.86464 | 15.199 ± 0.034 | 0.22% |
| au15.1b.kfs.32a.txt | 1.50 | 10 | 3.75506 ± 0.00255 | 1.2386 ± 0.00147 | 0.01523 ± 0.00006 | 0.02631 ± 0.00027 | 0.0008399 ± 0.0000186 | 2.04E-14 | 93% | 2.83306 | 15.032 ± 0.033 | 0.21% |
| au15.1b.kfs.33a.txt | 1.50 | 10 | 3.18383 ± 0.00214 | 0.8810 ± 0.00127 | 0.01087 ± 0.00009 | 0.02147 ± 0.00031 | 0.0024441 ± 0.0000266 | 1.73E-14 | 77% | 2.79596 | 14.836 ± 0.057 | 0.38% |
| au15.1b.kfs.34a.txt | 1.50 | 10 | 3.64305 ± 0.00246 | 1.0454 ± 0.00153 | 0.01314 ± 0.00009 | 0.02280 ± 0.00025 | 0.0024049 ± 0.0000246 | 1.98E-14 | 81% | 2.80679 | 14.893 ± 0.048 | 0.32% |
| au15.1b.kfs.35a.txt | 1.50 | 10 | 4.48769 ± 0.00256 | 1.0479 ± 0.00170 | 0.01376 ± 0.00010 | 0.02343 ± 0.00030 | 0.0052956 ± 0.0000286 | 2.44E-14 | 65% | 2.79110 | 14.810 ± 0.060 | 0.40% |
| au15.1b.kfs.36a.txt | 1.50 | 10 | 2.35057 ± 0.00270 | 0.6330 ± 0.00149 | 0.00814 ± 0.00008 | 0.01590 ± 0.00028 | 0.0019073 ± 0.0000218 | 1.28E-14 | 76% | 2.82504 | 14.989 ± 0.076 | 0.50% |
| au15.1b.kfs.37a.txt | 1.50 | 10 | 0.88728 ± 0.00114 | 0.2882 ± 0.00085 | 0.00359 ± 0.00006 | 0.00730 ± 0.00028 | 0.0002406 ± 0.0000219 | 4.82E-15 | 92% | 2.83399 | 15.037 ± 0.132 | 0.87% |
| au15.1b.kfs.38a.txt | 1.50 | 10 | 3.99869 ± 0.00324 | 0.8421 ± 0.00093 | 0.01142 ± 0.00010 | 0.02029 ± 0.00032 | 0.0056102 ± 0.0000338 | 2.17E-14 | 59% | 2.78166 | 14.760 ± 0.073 | 0.49% |
| au15.1b.kfs.39a.txt | 1.50 | 10 | 2.46639 ± 0.00218 | 0.8450 ± 0.00124 | 0.01044 ± 0.00008 | 0.02161 ± 0.00062 | 0.0002768 ± 0.0000206 | 1.34E-14 | 97% | 2.82425 | 14.985 ± 0.047 | 0.31% |
| au15.1b.kfs.40a.txt | 1.50 | 10 | 2.73708 ± 0.00158 | 0.7200 ± 0.00122 | 0.00961 ± 0.00011 | 0.01806 ± 0.00014 | 0.0024115 ± 0.0000319 | 1.49E-14 | 74% | 2.81370 | 14.929 ± 0.080 | 0.53% |
| | | | | | | | | Single Crystal Total Gas Ages: | | | 14.943 ± 0.066 | |
| | | | | | | | | | | | 15.100 ± 0.210 | |
| Biweight Mean = 14.951±0.059 (±0.148 with J-value error) at the 95% confidence level. MSWD = 32, probability = 0.000 | | | | | | | | | | | 14.812 ± 0.054 | |
| | | | | | | | | | | | 15.045 ± 0.051 | |
| | | | | | | | | | | | 15.089 ± 0.057 | |

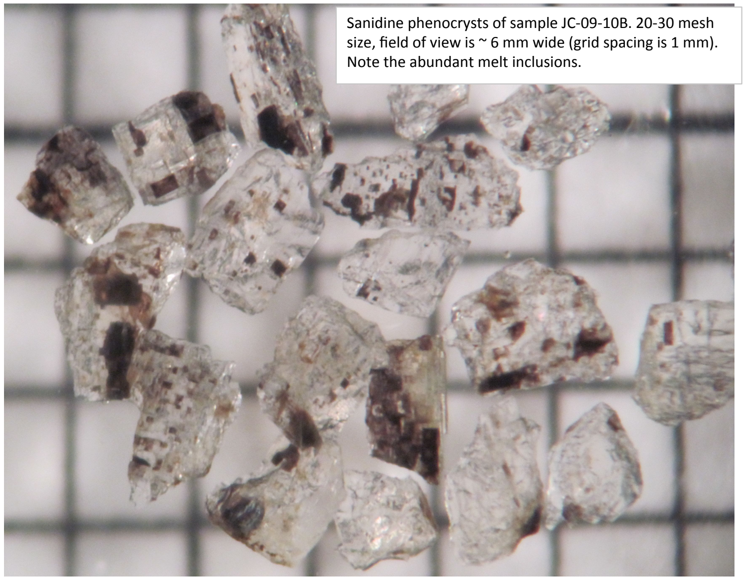
**JC-09-08, Incremental Heating Analyses**

| | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| au15.1b.kfs.25c.txt | 0.45 | 20 | 0.03957 + 0.00032 | 0.0134 + 0.00008 | 0.00013 + 0.00003 | 0.00001 + 0.00012 | 0.0000191 + 0.0000205 | 2.15E-16 | 86% | 2.5399083 | 13.48 ± 2.41 | 18% |
| au15.1b.kfs.25d.txt | 0.50 | 20 | 0.05050 + 0.00031 | 0.0173 + 0.00011 | 0.00024 + 0.00003 | 0.00028 + 0.00008 | -0.0000010 + 0.0000174 | 2.74E-16 | 101% | 2.9198521 | 15.49 ± 1.58 | 10% |
| au15.1b.kfs.25e.txt | 0.53 | 20 | 0.02803 + 0.00023 | 0.0097 + 0.00008 | 0.00010 + 0.00003 | 0.00029 + 0.00009 | -0.0000184 + 0.0000167 | 1.52E-16 | 119% | 2.8950639 | 15.36 ± 2.70 | 18% |
| au15.1b.kfs.25f.txt | 0.56 | 20 | 0.34979 + 0.00048 | 0.0860 + 0.00057 | 0.00109 + 0.00003 | 0.00128 + 0.00019 | 0.0003654 + 0.0000183 | 1.90E-15 | 69% | 2.8129824 | 14.926 ± 0.367 | 2% |
| au15.1b.kfs.25g.txt | 0.59 | 20 | 0.55240 + 0.00093 | 0.1672 + 0.00071 | 0.00206 + 0.00004 | 0.00249 + 0.00035 | 0.0002106 + 0.0000267 | 3.00E-15 | 89% | 2.9322213 | 15.556 ± 0.263 | 2% |
| au15.1b.kfs.25h.txt | 0.62 | 20 | 0.34870 + 0.00050 | 0.1033 + 0.00037 | 0.00125 + 0.00005 | 0.00201 + 0.00017 | 0.0001966 + 0.0000181 | 1.89E-15 | 83% | 2.813708 | 14.929 ± 0.283 | 2% |
| au15.1b.kfs.25i.txt | 0.65 | 20 | 0.39817 + 0.00041 | 0.1398 + 0.00050 | 0.00172 + 0.00005 | 0.00315 + 0.00018 | -0.0000140 + 0.0000177 | 2.16E-15 | 101% | 2.8500781 | 15.122 ± 0.207 | 1% |
| au15.1b.kfs.25k.txt | 0.71 | 20 | 0.41694 + 0.00057 | 0.1462 + 0.00057 | 0.00171 + 0.00005 | 0.00299 + 0.00019 | 0.0000430 + 0.0000180 | 2.26E-15 | 97% | 2.7658395 | 14.676 ± 0.203 | 1% |

| | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| au15.1b.kfs.25l.txt | 0.74 | 20 | 0.50379 + 0.00066 | 0.1752 + 0.00022 | 0.00212 + 0.00004 | 0.00350 + 0.00009 | 0.0000222 + 0.0000196 | 2.73E-15 | 99% | 2.8399918 | 15.068 ± 0.178 | 1% |
| au15.1b.kfs.25m.txt | 0.77 | 20 | 0.58304 + 0.00113 | 0.2034 + 0.00035 | 0.00244 + 0.00003 | 0.00364 + 0.00024 | 0.0000315 + 0.0000202 | 3.16E-15 | 98% | 2.8215969 | 14.971 ± 0.161 | 1% |
| au15.1b.kfs.25n.txt | 0.80 | 20 | 0.48359 + 0.00075 | 0.1641 + 0.00076 | 0.00202 + 0.00003 | 0.00348 + 0.00019 | 0.0000884 + 0.0000172 | 2.62E-15 | 95% | 2.7896801 | 14.802 ± 0.181 | 1% |
| au15.1b.kfs.25o.txt | 0.85 | 20 | 0.54800 + 0.00083 | 0.1865 + 0.00074 | 0.00224 + 0.00005 | 0.00303 + 0.00017 | 0.0000850 + 0.0000195 | 2.97E-15 | 95% | 2.8050109 | 14.883 ± 0.177 | 1% |
| au15.1b.kfs.25p.txt | 0.90 | 10 | 0.32177 + 0.00042 | 0.1013 + 0.00023 | 0.00130 + 0.00004 | 0.00218 + 0.00014 | 0.0001252 + 0.0000247 | 1.75E-15 | 89% | 2.8137436 | 14.930 ± 0.385 | 3% |
| au15.1b.kfs.25q.txt | 1.00 | 10 | 0.23066 + 0.00033 | 0.0786 + 0.00028 | 0.00092 + 0.00004 | 0.00137 + 0.00018 | 0.0000726 + 0.0000215 | 1.25E-15 | 91% | 2.6645163 | 14.141 ± 0.433 | 3% |
| au15.1b.kfs.25r.txt | 1.10 | 10 | 0.10695 + 0.00059 | 0.0374 + 0.00022 | 0.00044 + 0.00004 | 0.00064 + 0.00013 | 0.0000204 + 0.0000214 | 5.80E-16 | 94% | 2.6993849 | 14.325 ± 0.906 | 6% |
| au15.1b.kfs.25s.txt | 1.20 | 10 | 0.03173 + 0.00033 | 0.0107 + 0.00007 | 0.00014 + 0.00004 | 0.00033 + 0.00009 | 0.0000240 + 0.0000236 | 1.72E-16 | 78% | 2.2946921 | 12.2 ± 3.456 | 28% |
| Plateau Age = 14.943±0.066 Ma (1s), MSWD = 0.97, probability = 0.48, 99.34% of the 39Ar, steps 1 through 15 | | | | | | | | | | | | |
| au15.1b.kfs.24c.txt | 0.45 | 20 | 0.02525 + 0.00026 | 0.0084 + 0.00006 | 0.00001 + 0.00004 | 0.00028 + 0.00015 | 0.0000200 + 0.0000203 | 1.37E-16 | 77% | 2.3039308 | 12.23 ± 3.80 | 31% |
| au15.1b.kfs.24d.txt | 0.50 | 20 | 0.03703 + 0.00024 | 0.0128 + 0.00007 | 0.00009 + 0.00003 | 0.00059 + 0.00014 | -0.0000082 + 0.0000158 | 2.01E-16 | 107% | 2.8910585 | 15.34 ± 1.94 | 13% |
| au15.1b.kfs.24e.txt | 0.53 | 20 | 0.05916 + 0.00037 | 0.0206 + 0.00007 | 0.00020 + 0.00005 | 0.00069 + 0.00018 | -0.0000044 + 0.0000175 | 3.21E-16 | 102% | 2.87164 | 15.24 ± 1.33 | 9% |
| au15.1b.kfs.24f.txt | 0.56 | 20 | 0.06882 + 0.00043 | 0.0238 + 0.00009 | 0.00029 + 0.00003 | 0.00085 + 0.00013 | 0.0000432 + 0.0000183 | 3.74E-16 | 82% | 2.3555851 | 12.51 ± 1.21 | 10% |
| au15.1b.kfs.24g.txt | 0.59 | 20 | 0.11821 + 0.00054 | 0.0418 + 0.00026 | 0.00047 + 0.00004 | 0.00098 + 0.00021 | 0.0000255 + 0.0000161 | 6.42E-16 | 94% | 2.6524419 | 14.077 ± 0.618 | 4% |
| au15.1b.kfs.24h.txt | 0.62 | 20 | 1.47226 + 0.00152 | 0.3762 + 0.00085 | 0.00474 + 0.00008 | 0.00786 + 0.00024 | 0.0012421 + 0.0000250 | 7.99E-15 | 75% | 2.9399772 | 15.597 ± 0.117 | 1% |
| au15.1b.kfs.24i.txt | 0.65 | 20 | 0.30799 + 0.00043 | 0.1015 + 0.00060 | 0.00125 + 0.00003 | 0.00206 + 0.00011 | 0.0001299 + 0.0000190 | 1.67E-15 | 88% | 2.6572899 | 14.103 ± 0.310 | 2% |
| au15.1b.kfs.24j.txt | 0.68 | 20 | 0.15972 + 0.00032 | 0.0445 + 0.00018 | 0.00056 + 0.00003 | 0.00118 + 0.00019 | 0.0001393 + 0.0000175 | 8.67E-16 | 74% | 2.6689605 | 14.164 ± 0.623 | 4% |
| au15.1b.kfs.24k.txt | 0.71 | 20 | 0.34543 + 0.00056 | 0.1205 + 0.00048 | 0.00146 + 0.00006 | 0.00283 + 0.00015 | 0.0000146 + 0.0000183 | 1.87E-15 | 99% | 2.832294 | 15.028 ± 0.247 | 2% |
| au15.1b.kfs.24l.txt | 0.75 | 20 | 0.19186 + 0.00034 | 0.0658 + 0.00016 | 0.00088 + 0.00004 | 0.00186 + 0.00022 | 0.0000073 + 0.0000159 | 1.04E-15 | 99% | 2.8860345 | 15.312 ± 0.382 | 2% |
| au15.1b.kfs.24m.txt | 0.80 | 20 | 0.44219 + 0.00066 | 0.1529 + 0.00056 | 0.00189 + 0.00004 | 0.00364 + 0.00027 | 0.0000467 + 0.0000181 | 2.40E-15 | 97% | 2.8037907 | 14.877 ± 0.196 | 1% |
| au15.1b.kfs.24n.txt | 0.85 | 20 | 0.35401 + 0.00055 | 0.1221 + 0.00071 | 0.00151 + 0.00006 | 0.00273 + 0.00029 | 0.0000403 + 0.0000155 | 1.92E-15 | 97% | 2.8032315 | 14.874 ± 0.220 | 1% |
| au15.1b.kfs.24o.txt | 0.90 | 20 | 0.17491 + 0.00022 | 0.0598 + 0.00022 | 0.00088 + 0.00004 | 0.00114 + 0.00024 | 0.0000206 + 0.0000165 | 9.49E-16 | 97% | 2.8226096 | 14.976 ± 0.438 | 3% |
| au15.1b.kfs.24p.txt | 0.95 | 10 | 0.23208 + 0.00038 | 0.0815 + 0.00031 | 0.00103 + 0.00004 | 0.00226 + 0.00014 | 0.0000278 + 0.0000183 | 1.26E-15 | 97% | 2.7495404 | 14.590 ± 0.357 | 2% |
| au15.1b.kfs.24q.txt | 1.00 | 10 | 0.16846 + 0.00033 | 0.0594 + 0.00035 | 0.00073 + 0.00004 | 0.00121 + 0.00017 | -0.0000082 + 0.0000183 | 9.14E-16 | 101% | 2.8379756 | 15.058 ± 0.492 | 3% |
| au15.1b.kfs.24r.txt | 1.10 | 10 | 0.26787 + 0.00027 | 0.0882 + 0.00026 | 0.00110 + 0.00004 | 0.00179 + 0.00022 | 0.0000512 + 0.0000157 | 1.45E-15 | 94% | 2.8680175 | 15.216 ± 0.283 | 2% |
| au15.1b.kfs.24s.txt | 1.20 | 10 | 0.32762 + 0.00062 | 0.1154 + 0.00041 | 0.00141 + 0.00004 | 0.00229 + 0.00013 | 0.0000013 + 0.0000179 | 1.78E-15 | 100% | 2.8367213 | 15.051 ± 0.251 | 2% |
| au15.1b.kfs.24t.txt | 1.50 | 10 | 0.47870 + 0.00083 | 0.1669 + 0.00037 | 0.00200 + 0.00004 | 0.00353 + 0.00016 | 0.0000321 + 0.0000188 | 2.60E-15 | 98% | 2.8123758 | 14.922 ± 0.181 | 1% |
| au15.1b.kfs.24u.txt | 1.70 | 10 | 0.23168 + 0.00030 | 0.0812 + 0.00042 | 0.00099 + 0.00005 | 0.00167 + 0.00020 | -0.0000232 + 0.0000180 | 1.26E-15 | 103% | 2.8552244 | 15.149 ± 0.356 | 2% |
| Plateau Age = 14.961±0.080 Ma, (1s). MSWD = 0.48, probability = 0.92. 66.4% of the 39Ar, steps 8 through 19. Total gas age = 15.10±0.21 Ma. | | | | | | | | | | | | |
| au15.1b.kfs.23a.txt | 0.40 | 20 | 0.01603 + 0.00028 | 0.0038 + 0.00005 | 0.00009 + 0.00004 | 0.00048 + 0.00015 | 0.0000366 + 0.0000141 | 8.70E-17 | 33% | 1.3707072 | 7.29 ± 5.80 | 80% |
| au15.1b.kfs.23b.txt | 0.45 | 20 | 0.01657 + 0.00023 | 0.0054 + 0.00007 | 0.00012 + 0.00005 | 0.00044 + 0.00013 | 0.0000088 + 0.0000154 | 9.00E-17 | 84% | 2.5987586 | 13.79 ± 4.51 | 33% |
| au15.1b.kfs.23c.txt | 0.50 | 20 | 0.01372 + 0.00015 | 0.0045 + 0.00005 | 0.00006 + 0.00004 | 0.00028 + 0.00016 | 0.0000011 + 0.0000160 | 7.45E-17 | 98% | 2.9988803 | 15.91 ± 5.62 | 35% |
| au15.1b.kfs.23d.txt | 0.53 | 20 | 0.03976 + 0.00040 | 0.0135 + 0.00006 | 0.00023 + 0.00004 | 0.00061 + 0.00015 | -0.0000015 + 0.0000143 | 2.16E-16 | 101% | 2.9438814 | 15.62 ± 1.67 | 11% |
| au15.1b.kfs.23e.txt | 0.56 | 20 | 0.02487 + 0.00028 | 0.0085 + 0.00006 | 0.00011 + 0.00004 | 0.00014 + 0.00014 | 0.0000010 + 0.0000178 | 1.35E-16 | 99% | 2.8832372 | 15.30 ± 3.28 | 21% |
| au15.1b.kfs.23f.txt | 0.59 | 20 | 0.10920 + 0.00026 | 0.0380 + 0.00013 | 0.00060 + 0.00004 | 0.00083 + 0.00015 | 0.0000475 + 0.0000180 | 5.93E-16 | 87% | 2.5065058 | 13.305 ± 0.744 | 6% |
| au15.1b.kfs.23g.txt | 0.62 | 20 | 0.06979 + 0.00049 | 0.0245 + 0.00011 | 0.00027 + 0.00003 | 0.00011 + 0.00021 | 0.0000558 + 0.0000170 | 3.79E-16 | 76% | 2.1803717 | 11.580 ± 1.098 | 9% |
| au15.1b.kfs.23h.txt | 0.65 | 20 | 0.08115 + 0.00054 | 0.0290 + 0.00026 | 0.00026 + 0.00004 | 0.00058 + 0.00015 | 0.0000094 + 0.0000171 | 4.40E-16 | 97% | 2.7010973 | 14.334 ± 0.941 | 7% |
| au15.1b.kfs.23i.txt | 0.68 | 20 | 0.06716 + 0.00048 | 0.0239 + 0.00021 | 0.00025 + 0.00003 | 0.00044 + 0.00018 | 0.0000300 + 0.0000189 | 3.65E-16 | 87% | 2.4450914 | 12.981 ± 1.254 | 10% |
| au15.1b.kfs.23j.txt | 0.71 | 20 | 0.05380 + 0.00026 | 0.0186 + 0.00012 | 0.00024 + 0.00003 | 0.00037 + 0.00018 | 0.0000049 + 0.0000150 | 2.92E-16 | 97% | 2.8172691 | 14.948 ± 1.270 | 8% |
| au15.1b.kfs.23k.txt | 0.75 | 20 | 0.08939 + 0.00043 | 0.0319 + 0.00013 | 0.00037 + 0.00003 | 0.00066 + 0.00012 | 0.0000067 + 0.0000177 | 4.85E-16 | 98% | 2.7448411 | 14.566 ± 0.875 | 6% |
| au15.1b.kfs.23l.txt | 0.80 | 20 | 0.15537 + 0.00027 | 0.0495 + 0.00025 | 0.00063 + 0.00004 | 0.00109 + 0.00011 | 0.0000774 + 0.0000171 | 8.43E-16 | 85% | 2.6769171 | 14.206 ± 0.549 | 4% |
| au15.1b.kfs.23m.txt | 0.85 | 20 | 1.41417 + 0.00078 | 0.2307 + 0.00100 | 0.00331 + 0.00004 | 0.00513 + 0.00015 | 0.0026647 + 0.0000282 | 7.68E-15 | 44% | 2.7190411 | 14.429 ± 0.252 | 2% |
| au15.1b.kfs.23n.txt | 0.90 | 20 | 1.01616 + 0.00193 | 0.3300 + 0.00084 | 0.00405 + 0.00005 | 0.00706 + 0.00017 | 0.0002780 + 0.0000197 | 5.52E-15 | 92% | 2.8317726 | 15.025 ± 0.107 | 1% |
| au15.1b.kfs.23o.txt | 0.95 | 10 | 0.38015 + 0.00070 | 0.1257 + 0.00025 | 0.00152 + 0.00004 | 0.00276 + 0.00015 | 0.0000610 + 0.0000167 | 2.06E-15 | 95% | 2.8826069 | 15.293 ± 0.212 | 1% |
| au15.1b.kfs.23p.txt | 1.00 | 10 | 0.83722 + 0.00140 | 0.2220 + 0.00042 | 0.00281 + 0.00004 | 0.00479 + 0.00023 | 0.0007540 + 0.0000181 | 4.54E-15 | 73% | 2.7697801 | 14.697 ± 0.138 | 1% |
| au15.1b.kfs.23q.txt | 1.10 | 10 | 0.74873 + 0.00101 | 0.2611 + 0.00104 | 0.00315 + 0.00008 | 0.00554 + 0.00023 | 0.0000693 + 0.0000152 | 4.06E-15 | 97% | 2.7913825 | 14.811 ± 0.111 | 1% |
| au15.1b.kfs.23r.txt | 1.20 | 10 | 0.64702 + 0.00069 | 0.2201 + 0.00086 | 0.00267 + 0.00005 | 0.00481 + 0.00015 | 0.0001370 + 0.0000167 | 3.51E-15 | 94% | 2.7579311 | 14.635 ± 0.135 | 1% |
| au15.1b.kfs.23s.txt | 1.50 | 10 | 0.35735 ± 0.00067 | 0.1270 ± 0.00065 | 0.00156 ± 0.00004 | 0.00281 ± 0.00028 | 0.0000222 ± 0.0000146 | 1.94E-15 | 98% | 2.7648 | 14.671 ± 0.198 | 1.35% |
| Plateau Age = 14.812±0.054 Ma (1s), MSWD = 1.6, probability = 0.080, 94.4% of the 39Ar, steps 8 through 19. Total Gas Age = 14.797±0.053 Ma | | | | | | | | | | | | |
| au15.1b.kfs.22a.txt | 0.35 | 20 | 0.00895 + 0.00019 | 0.0011 + 0.00005 | 0.00022 + 0.00005 | -0.00016 + 0.00021 | 0.0000229 + 0.0000210 | 4.86E-17 | 24% | 2.0295839 | 10.8 ± 30.8 | 286% |
| au15.1b.kfs.22b.txt | 0.40 | 20 | 0.01119 + 0.00021 | 0.0032 + 0.00004 | 0.00009 + 0.00004 | -0.00003 + 0.00017 | 0.0000330 + 0.0000225 | 6.07E-17 | 13% | 0.4518626 | 2.4 ± 11.1 | 463% |
| au15.1b.kfs.22c.txt | 0.45 | 20 | 0.01872 + 0.00026 | 0.0058 + 0.00007 | 0.00012 + 0.00003 | 0.00019 + 0.00017 | 0.0000206 + 0.0000203 | 1.02E-16 | 68% | 2.1765625 | 11.56 ± 5.49 | 48% |
| au15.1b.kfs.22d.txt | 0.50 | 20 | 0.02145 + 0.00026 | 0.0071 + 0.00006 | 0.00021 + 0.00002 | 0.00020 + 0.00011 | 0.0000184 + 0.0000189 | 1.16E-16 | 75% | 2.2667041 | 12.04 ± 4.20 | 35% |
| au15.1b.kfs.22e.txt | 0.53 | 20 | 0.01765 + 0.00019 | 0.0059 + 0.00004 | 0.00011 + 0.00003 | 0.00010 + 0.00014 | 0.0000070 + 0.0000197 | 9.58E-17 | 88% | 2.6510273 | 14.07 ± 5.26 | 37% |
| au15.1b.kfs.22f.txt | 0.56 | 20 | 0.01865 + 0.00028 | 0.0066 + 0.00013 | 0.00011 + 0.00003 | 0.00011 + 0.00015 | -0.0000193 + 0.0000220 | 1.01E-16 | 131% | 2.8071118 | 14.89 ± 5.21 | 35% |
| au15.1b.kfs.22g.txt | 0.59 | 20 | 0.03526 + 0.00041 | 0.0117 + 0.00008 | 0.00016 + 0.00004 | 0.00037 + 0.00015 | 0.0000058 + 0.0000221 | 1.91E-16 | 95% | 2.8603511 | 15.18 ± 2.96 | 19% |
| au15.1b.kfs.22h.txt | 0.62 | 20 | 0.05993 + 0.00040 | 0.0201 + 0.00011 | 0.00029 + 0.00004 | 0.00051 + 0.00023 | 0.0000323 + 0.0000213 | 3.25E-16 | 84% | 2.5139556 | 13.345 ± 1.670 | 13% |
| au15.1b.kfs.22i.txt | 0.65 | 20 | 0.07847 + 0.00042 | 0.0272 + 0.00012 | 0.00037 + 0.00004 | 0.00080 + 0.00017 | 0.0000214 + 0.0000229 | 4.26E-16 | 92% | 2.6571682 | 14.102 ± 1.327 | 9% |
| au15.1b.kfs.22j.txt | 0.68 | 20 | 0.07318 + 0.00031 | 0.0251 + 0.00011 | 0.00031 + 0.00003 | 0.00084 + 0.00023 | 0.0000217 + 0.0000226 | 3.97E-16 | 91% | 2.6613169 | 14.124 ± 1.413 | 10% |
| au15.1b.kfs.22k.txt | 0.71 | 20 | 0.07240 + 0.00045 | 0.0243 + 0.00008 | 0.00034 + 0.00003 | 0.00060 + 0.00021 | -0.0000021 + 0.0000224 | 3.93E-16 | 101% | 2.9832957 | 15.825 ± 1.452 | 9% |
| au15.1b.kfs.22l.txt | 0.75 | 20 | 0.69001 + 0.00079 | 0.1231 + 0.00056 | 0.00163 + 0.00004 | 0.00281 + 0.00017 | 0.0011170 + 0.0000242 | 3.75E-15 | 52% | 2.9256413 | 15.521 ± 0.344 | 2% |
| au15.1b.kfs.22m.txt | 0.80 | 20 | 3.36117 + 0.00130 | 0.5861 + 0.00086 | 0.00820 + 0.00006 | 0.01322 + 0.00021 | 0.0058042 + 0.0000347 | 1.82E-14 | 49% | 2.810461 | 14.912 ± 0.106 | 1% |
| au15.1b.kfs.22n.txt | 0.85 | 20 | 0.98761 + 0.00143 | 0.3393 + 0.00069 | 0.00406 + 0.00007 | 0.00770 + 0.00021 | 0.0001036 + 0.0000228 | 5.36E-15 | 97% | 2.8227155 | 14.977 ± 0.112 | 1% |
| au15.1b.kfs.22o.txt | 0.90 | 20 | 0.98092 + 0.00098 | 0.3157 + 0.00082 | 0.00389 + 0.00007 | 0.00736 + 0.00024 | 0.0003010 + 0.0000228 | 5.32E-15 | 91% | 2.8273644 | 15.002 ± 0.122 | 1% |
| au15.1b.kfs.22p.txt | 0.95 | 10 | 1.26195 ± 0.00112 | 0.3736 ± 0.00108 | 0.00465 ± 0.00006 | 0.00849 ± 0.00017 | 0.0006622 ± 0.0000233 | 6.85E-15 | 85% | 2.8558 | 15.152 ± 0.112 | 0.74% |
| au15.1b.kfs.22q.txt | 1.00 | 10 | 0.41352 + 0.00053 | 0.1377 + 0.00048 | 0.00172 + 0.00005 | 0.00310 + 0.00020 | 0.0000625 + 0.0000199 | 2.24E-15 | 96% | 2.8710633 | 15.232 ± 0.234 | 2% |
| au15.1b.kfs.22r.txt | 1.10 | 10 | 0.32997 + 0.00104 | 0.1118 + 0.00047 | 0.00143 + 0.00005 | 0.00275 + 0.00020 | 0.0000327 + 0.0000177 | 1.79E-15 | 97% | 2.8675697 | 15.214 ± 0.262 | 2% |
| au15.1b.kfs.22s.txt | 1.20 | 10 | 0.37381 + 0.00085 | 0.1182 + 0.00047 | 0.00150 + 0.00005 | 0.00278 + 0.00016 | 0.0001090 + 0.0000205 | 2.03E-15 | 91% | 2.8910884 | 15.338 ± 0.283 | 2% |
| au15.1b.kfs.22t.txt | 1.50 | 10 | 0.27703 + 0.00045 | 0.0913 + 0.00049 | 0.00116 + 0.00004 | 0.00211 + 0.00014 | 0.0000646 + 0.0000204 | 1.50E-15 | 93% | 2.8263414 | 14.996 ± 0.362 | 2% |
| Age = 15.045±0.051 Ma (1s), MSWD = 0.61, probability = 0.90, 100% of the 39Ar, steps 1 through 20 | | | | | | | | | | | | |
| au15.1b.kfs.21b.txt | 0.45 | 20 | 0.01808 + 0.00028 | 0.0058 + 0.00009 | 0.00017 + 0.00004 | 0.00015 + 0.00019 | -0.0000136 + 0.0000143 | 9.82E-17 | 122% | 3.1117397 | 16.50 ± 3.86 | 23% |
| au15.1b.kfs.21c.txt | 0.50 | 20 | 0.03091 + 0.00042 | 0.0109 + 0.00022 | 0.00012 + 0.00003 | 0.00032 + 0.00013 | -0.0000128 + 0.0000185 | 1.68E-16 | 112% | 2.843357 | 15.09 ± 2.69 | 18% |
| au15.1b.kfs.21e.txt | 0.56 | 20 | 0.03624 + 0.00031 | 0.0122 + 0.00007 | 0.00004 + 0.00003 | 0.00037 + 0.00017 | 0.0000005 + 0.0000216 | 1.97E-16 | 100% | 2.9512558 | 15.66 ± 2.77 | 18% |
| au15.1b.kfs.21f.txt | 0.59 | 20 | 0.17001 + 0.00049 | 0.0600 + 0.00043 | 0.00061 + 0.00005 | 0.00136 + 0.00017 | -0.0000123 + 0.0000199 | 9.23E-16 | 102% | 2.8359457 | 15.047 ± 0.533 | 4% |

| | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| au15.1b.kfs.21g.txt | 0.62 | 20 | 0.18640 + 0.00037 | 0.0624 + 0.00021 | 0.00068 + 0.00003 | 0.00114 + 0.00015 | 0.0000258 + 0.0000199 | 1.01E-15 | 96% | 2.8681871 | 15.217 ± 0.505 | 3% |
| au15.1b.kfs.21h.txt | 0.65 | 20 | 4.94850 + 0.00126 | 0.1159 + 0.00028 | 0.00442 + 0.00005 | 0.00189 + 0.00032 | 0.0158308 + 0.0000513 | 2.69E-14 | 5% | 2.3350795 | 12.399 ± 1.020 | 8% |
| au15.1b.kfs.21i.txt | 0.68 | 20 | 2.12617 + 0.00126 | 0.3096 + 0.00069 | 0.00447 + 0.00006 | 0.00667 + 0.00022 | 0.0042630 + 0.0000442 | 1.15E-14 | 41% | 2.8008124 | 14.861 ± 0.244 | 2% |
| au15.1b.kfs.21j.txt | 0.71 | 20 | 0.49257 + 0.00090 | 0.1594 + 0.00066 | 0.00200 + 0.00006 | 0.00357 + 0.00014 | 0.0001406 + 0.0000235 | 2.67E-15 | 92% | 2.8316146 | 15.024 ± 0.242 | 2% |
| au15.1b.kfs.21k.txt | 0.75 | 20 | 0.50046 + 0.00107 | 0.1620 + 0.00026 | 0.00189 + 0.00005 | 0.00351 + 0.00022 | 0.0001406 + 0.0000196 | 2.72E-15 | 92% | 2.834967 | 15.042 ± 0.195 | 1% |
| au15.1b.kfs.21l.txt | 0.80 | 20 | 0.66142 + 0.00099 | 0.2165 + 0.00046 | 0.00252 + 0.00005 | 0.00453 + 0.00018 | 0.0001647 + 0.0000199 | 3.59E-15 | 93% | 2.8316801 | 15.024 ± 0.150 | 1% |
| au15.1b.kfs.21m.txt | 0.85 | 20 | 0.75795 + 0.00076 | 0.2530 + 0.00033 | 0.00315 + 0.00007 | 0.00581 + 0.00025 | 0.0001226 + 0.0000210 | 4.11E-15 | 95% | 2.8541187 | 15.143 ± 0.133 | 1% |
| au15.1b.kfs.21n.txt | 0.90 | 20 | 0.45818 + 0.00067 | 0.1526 + 0.00059 | 0.00173 + 0.00005 | 0.00316 + 0.00017 | 0.0000450 + 0.0000209 | 2.49E-15 | 97% | 2.9177837 | 15.479 ± 0.225 | 1% |
| au15.1b.kfs.21p.txt | 1.00 | 10 | 0.15282 + 0.00037 | 0.0519 + 0.00030 | 0.00056 + 0.00003 | 0.00101 + 0.00012 | 0.0000182 + 0.0000163 | 8.29E-16 | 97% | 2.84015 | 15.069 ± 0.502 | 3% |
| au15.1b.kfs.21q.txt | 1.10 | 10 | 0.21247 + 0.00040 | 0.0726 + 0.00049 | 0.00083 + 0.00003 | 0.00176 + 0.00016 | 0.0000205 + 0.0000194 | 1.15E-15 | 97% | 2.8458588 | 15.099 ± 0.433 | 3% |
| au15.1b.kfs.21r.txt | 1.20 | 10 | 0.30371 + 0.00034 | 0.1052 + 0.00030 | 0.00125 + 0.00005 | 0.00278 + 0.00020 | 0.0000024 + 0.0000179 | 1.65E-15 | 100% | 2.8815894 | 15.288 ± 0.271 | 2% |
| au15.1b.kfs.21s.txt | 1.50 | 10 | 0.80189 + 0.00149 | 0.2610 + 0.00042 | 0.00311 + 0.00006 | 0.00534 + 0.00027 | 0.0002139 + 0.0000180 | 4.35E-15 | 92% | 2.8322381 | 15.027 ± 0.116 | 1% |
| au15.1b.kfs.21t.txt | 1.70 | 10 | 0.54549 + 0.00078 | 0.1868 + 0.00053 | 0.00225 + 0.00005 | 0.00395 + 0.00023 | 0.0000326 + 0.0000294 | 2.96E-15 | 98% | 2.8696874 | 15.225 ± 0.252 | 2% |

Plateau Age = 15.089±0.057 Ma (1s), MSWD = 0.79, probability = 0.70, 100% of the 39Ar, steps 1 through 17



Sanidine phenocrysts of sample JC-09-10B. 20-30 mesh size, field of view is ~ 6 mm wide (grid spacing is 1 mm). Note the abundant melt inclusions.

**JC-09-10B, Total Fusion Analyses of Single Crystals (J=.0029489+/-.0000133, 0.45%, 1s)**

| | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| au15.1f.kfs.86a.txt | 1.50 | 10 | 1.85043 ± 0.00200 | 0.5871 ± 0.00115 | 0.00716 ± 0.00007 | 0.22166 ± 0.00050 | 0.0001192 ± 0.0000195 | 1.00E-14 | 99% | 3.12337 | 16.540 ± 0.064 | 0.39% |
| au15.1f.kfs.87a.txt | 1.50 | 10 | 4.50701 ± 0.00571 | 1.5447 ± 0.00222 | 0.01871 ± 0.00006 | 0.06831 ± 0.00046 | 0.0001103 ± 0.0000194 | 2.45E-14 | 99% | 2.90030 | 15.364 ± 0.036 | 0.23% |
| au15.1f.kfs.88a.txt | 1.50 | 10 | 3.58019 ± 0.00145 | 1.2161 ± 0.00200 | 0.01490 ± 0.00011 | 0.03921 ± 0.00047 | 0.0000563 ± 0.0000187 | 1.94E-14 | 100% | 2.93293 | 15.536 ± 0.036 | 0.23% |
| au15.1f.kfs.89a.txt | 1.50 | 10 | 1.45781 ± 0.00169 | 0.4642 ± 0.00116 | 0.00576 ± 0.00008 | 0.16875 ± 0.00062 | 0.0000928 ± 0.0000178 | 7.91E-15 | 99% | 3.11210 | 16.481 ± 0.076 | 0.46% |
| au15.1f.kfs.90a.txt | 1.50 | 10 | 2.41787 ± 0.00231 | 0.7934 ± 0.00131 | 0.00963 ± 0.00010 | 0.04445 ± 0.00036 | 0.0000740 ± 0.0000173 | 1.31E-14 | 99% | 3.02467 | 16.020 ± 0.046 | 0.29% |
| au15.1f.kfs.91a.txt | 1.50 | 10 | 2.18540 ± 0.00195 | 0.7308 ± 0.00086 | 0.00892 ± 0.00007 | 0.03215 ± 0.00039 | 0.0000270 ± 0.0000198 | 1.19E-14 | 100% | 2.98315 | 15.801 ± 0.049 | 0.31% |
| au15.1f.kfs.92a.txt | 1.50 | 10 | 0.72349 ± 0.00074 | 0.2129 ± 0.00084 | 0.00264 ± 0.00005 | 0.18056 ± 0.00114 | 0.0004181 ± 0.0000210 | 3.93E-15 | 85% | 2.88814 | 15.300 ± 0.171 | 1.12% |
| au15.1f.kfs.93a.txt | 1.50 | 10 | 1.58515 ± 0.00285 | 0.5483 ± 0.00086 | 0.00671 ± 0.00004 | 0.02717 ± 0.00049 | 0.0000306 ± 0.0000200 | 8.60E-15 | 100% | 2.87868 | 15.250 ± 0.068 | 0.44% |
| au15.1f.kfs.94a.txt | 1.50 | 10 | 0.55677 ± 0.00062 | 0.1727 ± 0.00067 | 0.00219 ± 0.00006 | 0.15492 ± 0.00073 | 0.0001294 ± 0.0000219 | 3.02E-15 | 95% | 3.07686 | 16.295 ± 0.210 | 1.29% |
| au15.1f.kfs.95a.txt | 1.50 | 10 | 0.68001 ± 0.00141 | 0.2111 ± 0.00051 | 0.00258 ± 0.00006 | 0.07619 ± 0.00045 | 0.0000888 ± 0.0000219 | 3.69E-15 | 97% | 3.12679 | 16.558 ± 0.171 | 1.04% |
| au15.1f.kfs.97a.txt | 1.50 | 10 | 1.47052 ± 0.00091 | 0.4930 ± 0.00081 | 0.00597 ± 0.00006 | 0.01936 ± 0.00032 | 0.0000787 ± 0.0000189 | 7.98E-15 | 99% | 2.93867 | 15.567 ± 0.066 | 0.42% |
| au15.1f.kfs.98a.txt | 1.50 | 10 | 2.40908 ± 0.00266 | 0.8166 ± 0.00183 | 0.00983 ± 0.00010 | 0.04755 ± 0.00043 | 0.0000849 ± 0.0000188 | 1.31E-14 | 99% | 2.92421 | 15.490 ± 0.053 | 0.34% |
| au15.1f.kfs.99a.txt | 1.50 | 10 | 2.11365 ± 0.00245 | 0.7294 ± 0.00111 | 0.00888 ± 0.00008 | 0.03489 ± 0.00037 | 0.0000632 ± 0.0000168 | 1.15E-14 | 99% | 2.87628 | 15.237 ± 0.047 | 0.31% |
| au15.1f.kfs.100a.txt | 1.50 | 10 | 1.61285 ± 0.00170 | 0.5581 ± 0.00111 | 0.00676 ± 0.00007 | 0.02344 ± 0.00026 | 0.0000331 ± 0.0000209 | 8.75E-15 | 100% | 2.87569 | 15.234 ± 0.068 | 0.45% |
| | | | | | | | | | Single Crystal Total Gas Ages: | | 15.334 ± 0.035 | |
| | | | | | | | | | | | 15.046 ± 0.068 | |
| | | | | | | | | | | | 15.112 ± 0.066 | |
| | | | | | | | | | | | 15.296 ± 0.064 | |
| | | | | | | | | | | | 15.349 ± 0.048 | |

Biweight Mean = 15.60±0.25 (±0.39 with error in J-Value) at the 95% confidence level. MSWD = 47, probability = 0.000

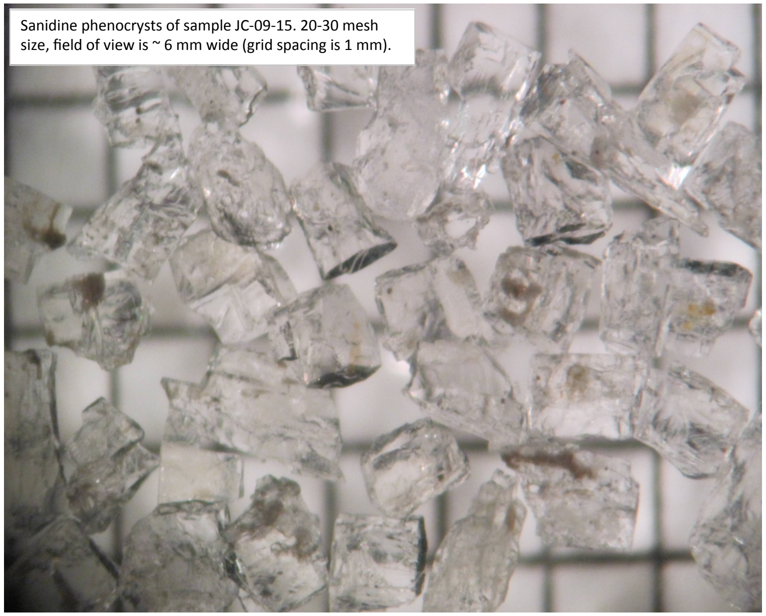
**JC-09-10B, Incremental Heating Analyses of Single Crystals**

| | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| au15.1f.kfs.85a.txt | 0.35 | 20 | 0.00201 + 0.00016 | 0.0003 + 0.00007 | 0.00003 + 0.00003 | 0.00005 + 0.00016 | 0.0000247 + 0.0000162 | 1.09E-17 | -263% | -19.63284 | -107.6 ± 105.7 | 98% |
| au15.1f.kfs.85b.txt | 0.40 | 20 | 0.00493 + 0.00019 | 0.0010 + 0.00008 | 0.00005 + 0.00004 | 0.00042 + 0.00013 | 0.0000026 + 0.0000167 | 2.68E-17 | 85% | 4.4179992 | 23.4 ± 27.5 | 118% |
| au15.1f.kfs.85c.txt | 0.45 | 20 | 0.00590 + 0.00022 | 0.0014 + 0.00006 | 0.00000 + 0.00004 | 0.00015 + 0.00020 | 0.0000157 + 0.0000202 | 3.20E-17 | 22% | 0.9450373 | 5.0 ± 23.6 | 469% |
| au15.1f.kfs.85d.txt | 0.50 | 20 | 0.01385 + 0.00026 | 0.0033 + 0.00010 | 0.00004 + 0.00004 | 0.00047 + 0.00015 | 0.0000192 + 0.0000184 | 7.52E-17 | 59% | 2.4746567 | 13.1 ± 8.7 | 67% |
| au15.1f.kfs.85e.txt | 5.30 | 20 | 2.45089 + 0.00165 | 0.8402 + 0.00095 | 0.01045 + 0.00009 | 0.04971 + 0.00047 | 0.0000778 + 0.0000150 | 1.33E-14 | 99% | 2.8945937 | 15.334 ± 0.035 | 0% |

*Plateau Age = 15.334±0.035 Ma (1s), MSWD = 0.114, probability = 0.95, 99.97% of the 39Ar, steps 2 through 5

| | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| *The crystal in position #85 was a small grain that fused on the 5th step; this result was treated as a single, total-fusion analysis | | | | | | | | | | | | |
| au15.1f.kfs.84b.txt | 0.40 | 20 | 0.04580 + 0.00037 | 0.0071 + 0.00005 | 0.00012 + 0.00003 | 0.00054 + 0.00013 | 0.0000963 + 0.0000188 | 2.49E-16 | 38% | 2.455063 | 13.01 ± 4.18 | 32% |
| au15.1f.kfs.84c.txt | 0.45 | 20 | 0.05597 + 0.00021 | 0.0095 + 0.00007 | 0.00012 + 0.00003 | 0.00058 + 0.00016 | 0.0001113 + 0.0000182 | 3.04E-16 | 41% | 2.4450868 | 12.96 ± 3.03 | 23% |
| au15.1f.kfs.84d.txt | 0.50 | 20 | 0.05424 + 0.00023 | 0.0106 + 0.00008 | 0.00032 + 0.00004 | 0.00111 + 0.00016 | 0.0000678 + 0.0000194 | 2.94E-16 | 63% | 3.2221928 | 17.06 ± 2.86 | 17% |
| au15.1f.kfs.84e.txt | 0.53 | 20 | 0.04111 + 0.00028 | 0.0091 + 0.00007 | 0.00012 + 0.00003 | 0.00089 + 0.00011 | 0.0000709 + 0.0000190 | 2.23E-16 | 49% | 2.2312515 | 11.83 ± 3.29 | 28% |
| au15.1f.kfs.84f.txt | 0.56 | 20 | 0.05041 + 0.00045 | 0.0127 + 0.00010 | 0.00014 + 0.00004 | 0.00122 + 0.00021 | 0.0000547 + 0.0000168 | 2.74E-16 | 68% | 2.7001593 | 14.31 ± 2.08 | 15% |
| au15.1f.kfs.84g.txt | 0.59 | 20 | 0.03302 + 0.00038 | 0.0088 + 0.00006 | 0.00014 + 0.00003 | 0.00128 + 0.00010 | 0.0000343 + 0.0000173 | 1.79E-16 | 70% | 2.5970333 | 13.76 ± 3.08 | 22% |
| au15.1f.kfs.84i.txt | 0.65 | 20 | 0.02939 + 0.00025 | 0.0090 + 0.00011 | 0.00010 + 0.00004 | 0.00113 + 0.00020 | 0.0000021 + 0.0000197 | 1.60E-16 | 98% | 3.2000563 | 16.94 ± 3.43 | 20% |
| au15.1f.kfs.84j.txt | 0.68 | 20 | 0.01676 + 0.00015 | 0.0050 + 0.00005 | 0.00009 + 0.00003 | 0.00077 + 0.00020 | 0.0000279 + 0.0000186 | 9.09E-17 | 51% | 1.6978489 | 9.01 ± 5.79 | 64% |
| au15.1f.kfs.84k.txt | 0.71 | 20 | 0.11192 + 0.00043 | 0.0365 + 0.00015 | 0.00043 + 0.00003 | 0.00347 + 0.00025 | 0.0000267 + 0.0000220 | 6.07E-16 | 93% | 2.8553799 | 15.127 ± 0.949 | 6% |
| au15.1f.kfs.84l.txt | 0.75 | 20 | 0.07239 + 0.00025 | 0.0238 + 0.00012 | 0.00028 + 0.00004 | 0.00180 + 0.00012 | -0.0000078 + 0.0000198 | 3.93E-16 | 103% | 3.0518846 | 16.164 ± 1.307 | 8% |
| au15.1f.kfs.84m.txt | 0.85 | 20 | 0.08061 + 0.00032 | 0.0269 + 0.00014 | 0.00024 + 0.00004 | 0.00211 + 0.00016 | 0.0000028 + 0.0000155 | 4.38E-16 | 99% | 2.9704721 | 15.734 ± 0.910 | 6% |
| au15.1f.kfs.84n.txt | 0.90 | 20 | 0.10110 + 0.00052 | 0.0344 + 0.00009 | 0.00045 + 0.00003 | 0.00263 + 0.00016 | 0.0000027 + 0.0000153 | 5.49E-16 | 99% | 2.918963 | 15.463 ± 0.701 | 5% |
| au15.1f.kfs.84o.txt | 0.95 | 10 | 0.16252 + 0.00058 | 0.0560 + 0.00051 | 0.00072 + 0.00005 | 0.00392 + 0.00017 | 0.0000176 + 0.0000154 | 8.82E-16 | 97% | 2.8138771 | 14.908 ± 0.455 | 3% |
| au15.1f.kfs.84p.txt | 1.00 | 10 | 0.17224 + 0.00074 | 0.0599 + 0.00056 | 0.00072 + 0.00005 | 0.00360 + 0.00022 | 0.0000211 + 0.0000147 | 9.35E-16 | 97% | 2.7756131 | 14.706 ± 0.415 | 3% |
| au15.1f.kfs.84q.txt | 1.10 | 10 | 0.06924 + 0.00034 | 0.0247 + 0.00021 | 0.00031 + 0.00003 | 0.00136 + 0.00015 | -0.0000141 + 0.0000157 | 3.76E-16 | 106% | 2.8101013 | 14.888 ± 1.007 | 7% |
| au15.1f.kfs.84r.txt | 1.20 | 10 | 0.73519 + 0.00125 | 0.2561 + 0.00109 | 0.00310 + 0.00004 | 0.01336 + 0.00032 | 0.0000233 + 0.0000172 | 3.99E-15 | 99% | 2.8485466 | 15.091 ± 0.126 | 1% |
| au15.1f.kfs.84s.txt | 1.30 | 10 | 0.86471 + 0.00125 | 0.3039 + 0.00105 | 0.00361 + 0.00005 | 0.01599 + 0.00028 | 0.0000203 + 0.0000142 | 4.69E-15 | 99% | 2.8297641 | 14.992 ± 0.092 | 1% |
| au15.1f.kfs.84t.txt | 1.40 | 10 | 0.13652 + 0.00031 | 0.0461 + 0.00021 | 0.00056 + 0.00003 | 0.00189 + 0.00021 | -0.0000060 + 0.0000161 | 7.41E-16 | 101% | 2.9631306 | 15.696 ± 0.554 | 4% |
| au15.1f.kfs.84u.txt | 1.50 | 10 | 0.10107 + 0.00036 | 0.0355 + 0.00043 | 0.00045 + 0.00003 | 0.00112 + 0.00021 | -0.0000316 + 0.0000150 | 5.49E-16 | 109% | 2.8536181 | 15.118 ± 0.691 | 5% |
| au15.1f.kfs.84v.txt | 1.60 | 10 | 0.24217 + 0.00034 | 0.0833 + 0.00041 | 0.00118 + 0.00007 | 0.00439 + 0.00015 | 0.0000135 + 0.0000129 | 1.31E-15 | 99% | 2.864184 | 15.174 ± 0.254 | 2% |
| au15.1f.kfs.84w.txt | 1.70 | 10 | 0.04439 + 0.00024 | 0.0151 + 0.00009 | 0.00009 + 0.00004 | 0.00028 + 0.00011 | -0.0000240 + 0.0000154 | 2.41E-16 | 116% | 2.9460415 | 15.61 ± 1.603 | 10% |
| Plateau Age = 15.046±0.068 Ma (1s), MSWD = 0.43, probability = 0.99, 100% of the 39Ar, steps 1 through 21 | | | | | | | | | | | | |
| au15.1f.kfs.83b.txt | 0.40 | 20 | 0.00286 + 0.00015 | 0.0006 + 0.00005 | -0.00001 + 0.00003 | -0.00004 + 0.00013 | -0.0000241 + 0.0000185 | 1.55E-17 | 349% | 4.4805686 | 23.7 ± 45.58 | 192% |
| au15.1f.kfs.83c.txt | 0.45 | 20 | 0.00438 + 0.00018 | 0.0011 + 0.00005 | 0.00001 + 0.00003 | -0.00007 + 0.00012 | -0.0000285 + 0.0000184 | 2.37E-17 | 293% | 3.8032486 | 20.12 ± 25.06 | 125% |
| au15.1f.kfs.83d.txt | 0.50 | 20 | 0.00721 + 0.00027 | 0.0021 + 0.00007 | -0.00003 + 0.00003 | 0.00029 + 0.00022 | -0.0000136 + 0.0000193 | 3.91E-17 | 156% | 3.4536795 | 18.28 ± 14.44 | 79% |
| au15.1f.kfs.83e.txt | 0.53 | 20 | 0.00728 + 0.00027 | 0.0023 + 0.00007 | 0.00003 + 0.00004 | 0.00072 + 0.00016 | 0.0000125 + 0.0000189 | 3.95E-17 | 50% | 1.5881552 | 8.43 ± 12.90 | 153% |
| au15.1f.kfs.83f.txt | 0.56 | 20 | 0.01078 + 0.00024 | 0.0035 + 0.00007 | 0.00000 + 0.00003 | 0.00034 + 0.00015 | -0.0000005 + 0.0000181 | 5.85E-17 | 102% | 3.0558478 | 16.18 ± 8.019 | 50% |
| au15.1f.kfs.83g.txt | 0.59 | 20 | 0.00890 + 0.00021 | 0.0029 + 0.00007 | 0.00001 + 0.00003 | 0.00053 + 0.00015 | -0.0000209 + 0.0000172 | 4.83E-17 | 170% | 3.0498973 | 16.15 ± 9.184 | 57% |
| au15.1f.kfs.83h.txt | 0.62 | 20 | 0.01841 + 0.00022 | 0.0062 + 0.00008 | 0.00000 + 0.00004 | 0.00065 + 0.00020 | -0.0000036 + 0.0000180 | 9.99E-17 | 106% | 2.9955832 | 15.87 ± 4.575 | 29% |
| au15.1f.kfs.83i.txt | 0.65 | 20 | 0.02484 + 0.00021 | 0.0082 + 0.00007 | 0.00006 + 0.00003 | 0.00006 + 0.00015 | 0.0000097 + 0.0000139 | 1.35E-16 | 88% | 2.6938219 | 14.27 ± 2.679 | 19% |
| au15.1f.kfs.83j.txt | 0.68 | 20 | 0.04048 + 0.00034 | 0.0137 + 0.00010 | 0.00013 + 0.00003 | 0.00062 + 0.00023 | 0.0000352 + 0.0000133 | 2.20E-16 | 74% | 2.1978377 | 11.65 ± 1.534 | 13% |
| au15.1f.kfs.83k.txt | 0.71 | 20 | 0.06380 + 0.00046 | 0.0220 + 0.00019 | 0.00024 + 0.00004 | 0.00081 + 0.00019 | 0.0000190 + 0.0000157 | 3.46E-16 | 91% | 2.6516452 | 14.052 ± 1.135 | 8% |
| au15.1f.kfs.83l.txt | 0.75 | 20 | 0.10954 + 0.00027 | 0.0382 + 0.00018 | 0.00041 + 0.00003 | 0.00149 + 0.00017 | 0.0000386 + 0.0000154 | 5.95E-16 | 90% | 2.5739071 | 13.642 ± 0.636 | 5% |
| au15.1f.kfs.83m.txt | 0.85 | 20 | 0.18063 + 0.00038 | 0.0624 + 0.00038 | 0.00073 + 0.00003 | 0.00338 + 0.00036 | 0.0000179 + 0.0000164 | 9.80E-16 | 97% | 2.8127118 | 14.902 ± 0.424 | 3% |
| au15.1f.kfs.83n.txt | 0.90 | 20 | 0.26244 + 0.00072 | 0.0888 + 0.00047 | 0.00103 + 0.00004 | 0.00394 + 0.00023 | 0.0000176 + 0.0000173 | 1.42E-15 | 98% | 2.9009734 | 15.368 ± 0.319 | 2% |
| au15.1f.kfs.83o.txt | 0.96 | 10 | 0.17129 + 0.00023 | 0.0593 + 0.00027 | 0.00068 + 0.00003 | 0.00265 + 0.00016 | 0.0000508 + 0.0000170 | 9.30E-16 | 91% | 2.639216 | 13.986 ± 0.454 | 3% |
| au15.1f.kfs.83p.txt | 1.00 | 10 | 0.79773 + 0.00124 | 0.2758 + 0.00033 | 0.00344 + 0.00005 | 0.01446 + 0.00042 | 0.0000444 + 0.0000165 | 4.33E-15 | 99% | 2.8494526 | 15.096 ± 0.098 | 1% |
| au15.1f.kfs.83q.txt | 1.10 | 10 | 0.54053 + 0.00111 | 0.1845 + 0.00035 | 0.00225 + 0.00004 | 0.00866 + 0.00010 | 0.0000197 + 0.0000149 | 2.93E-15 | 99% | 2.9016946 | 15.371 ± 0.134 | 1% |
| au15.1f.kfs.83r.txt | 1.20 | 10 | 0.41954 + 0.00068 | 0.1446 + 0.00052 | 0.00167 + 0.00005 | 0.00643 + 0.00020 | 0.0000393 + 0.0000183 | 2.28E-15 | 97% | 2.8252388 | 14.968 ± 0.207 | 1% |
| au15.1f.kfs.83s.txt | 1.30 | 10 | 0.32731 + 0.00091 | 0.1144 + 0.00032 | 0.00138 + 0.00004 | 0.00539 + 0.00020 | 0.0000113 + 0.0000163 | 1.78E-15 | 99% | 2.8369637 | 15.030 ± 0.231 | 2% |
| au15.1f.kfs.83t.txt | 1.40 | 10 | 0.25881 + 0.00073 | 0.0883 + 0.00037 | 0.00106 + 0.00004 | 0.00396 + 0.00019 | -0.0000460 + 0.0000268 | 1.40E-15 | 105% | 2.9336306 | 15.540 ± 0.482 | 3% |
| au15.1f.kfs.83u.txt | 1.70 | 10 | 0.14109 + 0.00052 | 0.0486 + 0.00028 | 0.00060 + 0.00003 | 0.00220 + 0.00016 | 0.0000050 + 0.0000186 | 7.66E-16 | 99% | 2.8756731 | 15.234 ± 0.609 | 4% |
| Plateau Age = 15.112±0.066 Ma (1s) MSWD = 1.3, probability = 0.19, 100% of the 39Ar, steps 1 through 20 | | | | | | | | | | | | |
| au15.1f.kfs.83c.txt | 0.45 | 20 | 0.00453 + 0.00022 | 0.0012 + 0.00007 | 0.00000 + 0.00004 | 0.00034 + 0.00012 | -0.0000215 + 0.0000185 | 2.46E-17 | 241% | 3.9292056 | 20.8 ± 25.0 | 120% |
| au15.1f.kfs.83d.txt | 0.50 | 20 | 0.00721 + 0.00027 | 0.0021 + 0.00007 | -0.00003 + 0.00003 | 0.00029 + 0.00022 | -0.0000136 + 0.0000193 | 3.91E-17 | 156% | 3.4536795 | 18.3 ± 14.4 | 79% |
| au15.1f.kfs.83e.txt | 0.53 | 20 | 0.00728 + 0.00027 | 0.0023 + 0.00007 | 0.00003 + 0.00004 | 0.00072 + 0.00016 | 0.0000125 + 0.0000189 | 3.95E-17 | 50% | 1.5881552 | 8.4 ± 12.9 | 153% |
| au15.1f.kfs.83f.txt | 0.56 | 20 | 0.01078 + 0.00024 | 0.0035 + 0.00007 | 0.00000 + 0.00003 | 0.00034 + 0.00015 | -0.0000005 + 0.0000181 | 5.85E-17 | 102% | 3.0558478 | 16.18 ± 8.019 | 50% |
| au15.1f.kfs.83g.txt | 0.59 | 20 | 0.00890 + 0.00021 | 0.0029 + 0.00007 | 0.00001 + 0.00003 | 0.00053 + 0.00015 | -0.0000209 + 0.0000172 | 4.83E-17 | 170% | 3.0498973 | 16.15 ± 9.184 | 57% |
| au15.1f.kfs.83h.txt | 0.62 | 20 | 0.01841 + 0.00022 | 0.0062 + 0.00008 | 0.00000 + 0.00004 | 0.00065 + 0.00020 | -0.0000036 + 0.0000180 | 9.99E-17 | 106% | 2.9955832 | 15.87 ± 4.575 | 29% |
| au15.1f.kfs.83i.txt | 0.65 | 20 | 0.02483 + 0.00025 | 0.0082 + 0.00008 | 0.00005 + 0.00003 | 0.00077 + 0.00015 | -0.0000221 + 0.0000168 | 1.35E-16 | 127% | 3.0533541 | 16.17 ± 3.226 | 20% |
| au15.1f.kfs.83j.txt | 0.68 | 20 | 0.04048 + 0.00037 | 0.0137 + 0.00011 | 0.00012 + 0.00003 | 0.00132 + 0.00023 | 0.0000033 + 0.0000163 | 2.20E-16 | 98% | 2.8888396 | 15.304 ± 1.868 | 12% |
| au15.1f.kfs.83k.txt | 0.71 | 20 | 0.06380 + 0.00048 | 0.0220 + 0.00019 | 0.00023 + 0.00004 | 0.00152 + 0.00019 | -0.0000129 + 0.0000183 | 3.46E-16 | 106% | 2.9099724 | 15.415 ± 1.316 | 9% |
| au15.1f.kfs.83l.txt | 0.75 | 20 | 0.10953 + 0.00031 | 0.0382 + 0.00019 | 0.00040 + 0.00003 | 0.00219 + 0.00017 | 0.0000067 + 0.0000180 | 5.94E-16 | 98% | 2.8220911 | 14.952 ± 0.743 | 5% |
| au15.1f.kfs.83m.txt | 0.85 | 20 | 0.18028 + 0.00038 | 0.0623 + 0.00038 | 0.00074 + 0.00004 | 0.00355 + 0.00036 | 0.0000168 + 0.0000178 | 9.78E-16 | 97% | 2.819478 | 14.938 ± 0.459 | 3% |
| au15.1f.kfs.83n.txt | 0.90 | 20 | 0.26244 + 0.00072 | 0.0888 + 0.00047 | 0.00103 + 0.00004 | 0.00394 + 0.00023 | 0.0000176 + 0.0000173 | 1.42E-15 | 98% | 2.9009734 | 15.368 ± 0.319 | 2% |
| au15.1f.kfs.83o.txt | 0.96 | 10 | 0.17138 + 0.00024 | 0.0594 + 0.00027 | 0.00070 + 0.00003 | 0.00274 + 0.00016 | 0.0000212 + 0.0000167 | 9.30E-16 | 96% | 2.7839073 | 14.750 ± 0.446 | 3% |
| au15.1f.kfs.83p.txt | 1.00 | 10 | 0.79782 + 0.00124 | 0.2759 + 0.00033 | 0.00346 + 0.00005 | 0.01455 + 0.00042 | 0.0000148 + 0.0000162 | 4.33E-15 | 100% | 2.8805268 | 15.260 ± 0.097 | 1% |
| au15.1f.kfs.83q.txt | 1.10 | 10 | 0.54062 + 0.00112 | 0.1846 + 0.00035 | 0.00227 + 0.00003 | 0.00875 + 0.00010 | -0.0000099 + 0.0000146 | 2.93E-15 | 101% | 2.9321739 | 15.532 ± 0.131 | 1% |
| au15.1f.kfs.83r.txt | 1.20 | 10 | 0.41963 + 0.00068 | 0.1447 + 0.00053 | 0.00169 + 0.00005 | 0.00652 + 0.00020 | 0.0000097 + 0.0000180 | 2.28E-15 | 99% | 2.8845087 | 15.281 ± 0.204 | 1% |
| au15.1f.kfs.83s.txt | 1.30 | 10 | 0.32731 + 0.00091 | 0.1144 + 0.00032 | 0.00138 + 0.00004 | 0.00539 + 0.00020 | 0.0000113 + 0.0000163 | 1.78E-15 | 99% | 2.8369637 | 15.030 ± 0.231 | 2% |
| au15.1f.kfs.83t.txt | 1.40 | 10 | 0.25881 + 0.00073 | 0.0883 + 0.00037 | 0.00106 + 0.00004 | 0.00396 + 0.00019 | 0.0000145 + 0.0000169 | 1.40E-15 | 98% | 2.8851532 | 15.284 ± 0.310 | 2% |
| au15.1f.kfs.83u.txt | 1.70 | 10 | 0.14109 + 0.00052 | 0.0486 + 0.00028 | 0.00060 + 0.00003 | 0.00220 + 0.00016 | 0.0000050 + 0.0000186 | 7.66E-16 | 99% | 2.8756731 | 15.234 ± 0.609 | 4% |
| Age = 15.296±0.064 Ma (1s), MSWD = 0.42, probability = 0.98, 100% of the 39Ar, steps 1 through 19 | | | | | | | | | | | | |
| au15.1f.kfs.81d.txt | 0.50 | 20 | 0.01903 + 0.00016 | 0.0045 + 0.00004 | 0.00009 + 0.00003 | 0.00049 + 0.00012 | 0.0000289 + 0.0000158 | 1.03E-16 | 55% | 2.3196171 | 12.30 ± 5.5 | 44% |
| au15.1f.kfs.81e.txt | 0.53 | 20 | 0.01191 + 0.00021 | 0.0032 + 0.00005 | 0.00006 + 0.00002 | 0.00081 + 0.00022 | -0.0000037 + 0.0000170 | 6.46E-17 | 110% | 3.7311422 | 19.74 ± 8.3 | 42% |
| au15.1f.kfs.81f.txt | 0.56 | 20 | 0.01368 + 0.00021 | 0.0041 + 0.00006 | 0.00007 + 0.00004 | 0.00068 + 0.00011 | 0.0000251 + 0.0000166 | 7.42E-17 | 46% | 1.5510302 | 8.23 ± 6.4 | 78% |
| au15.1f.kfs.81g.txt | 0.59 | 20 | 0.02594 + 0.00023 | 0.0079 + 0.00009 | 0.00015 + 0.00003 | 0.00083 + 0.00017 | 0.0000306 + 0.0000145 | 1.41E-16 | 65% | 2.138968 | 11.34 ± 2.88 | 25% |
| au15.1f.kfs.81h.txt | 0.64 | 20 | 0.04600 + 0.00029 | 0.0151 + 0.00011 | 0.00023 + 0.00003 | 0.00122 + 0.00014 | 0.0000108 + 0.0000148 | 2.50E-16 | 93% | 2.84596 | 15.08 ± 1.55 | 10% |
| au15.1f.kfs.81i.txt | 0.65 | 20 | 0.02585 + 0.00022 | 0.0087 + 0.00005 | 0.00011 + 0.00003 | 0.00056 + 0.00014 | 0.0000150 + 0.0000129 | 1.40E-16 | 83% | 2.4738496 | 13.11 ± 2.33 | 18% |
| au15.1f.kfs.81j.txt | 0.68 | 20 | 0.01834 + 0.00024 | 0.0060 + 0.00006 | -0.00003 + 0.00006 | -0.00013 + 0.00009 | -0.0000214 + 0.0000170 | 9.95E-17 | 135% | 3.0360973 | 16.08 ± 4.41 | 27% |
| au15.1f.kfs.81k.txt | 0.71 | 20 | 0.06585 + 0.00036 | 0.0226 + 0.00011 | 0.00026 + 0.00004 | 0.00109 + 0.00020 | 0.0000313 + 0.0000160 | 3.57E-16 | 86% | 2.5112708 | 13.31 ± 1.12 | 8% |
| au15.1f.kfs.81l.txt | 0.75 | 20 | 0.03288 + 0.00041 | 0.0114 + 0.00015 | 0.00019 + 0.00005 | 0.00030 + 0.00016 | -0.0000097 + 0.0000157 | 1.78E-16 | 109% | 2.8954914 | 15.34 ± 2.18 | 14% |
| au15.1f.kfs.81m.txt | 0.80 | 20 | 0.02864 + 0.00028 | 0.0099 + 0.00013 | 0.00018 + 0.00004 | 0.00052 + 0.00018 | 0.0000267 + 0.0000159 | 1.55E-16 | 73% | 2.0924536 | 11.10 ± 2.53 | 23% |

| | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| au15.1f.kfs.81n.txt | 0.85 | 20 | 0.08966 + 0.00038 | 0.0307 + 0.00026 | 0.00039 + 0.00003 | 0.00162 + 0.00020 | -0.0000024 + 0.0000197 | 4.87E-16 | 101% | 2.9237171 | 15.488 ± 1.02 | 7% |
| au15.1f.kfs.81o.txt | 0.90 | 20 | 0.04730 + 0.00025 | 0.0168 + 0.00017 | 0.00022 + 0.00004 | 0.00081 + 0.00013 | -0.0000171 + 0.0000200 | 2.57E-16 | 111% | 2.815831 | 14.92 ± 1.87 | 13% |
| au15.1f.kfs.81p.txt | 0.95 | 20 | 0.55774 + 0.00108 | 0.1897 + 0.00043 | 0.00230 + 0.00005 | 0.00892 + 0.00029 | 0.0000002 + 0.0000186 | 3.03E-15 | 100% | 2.9436261 | 15.593 ± 0.160 | 1% |
| au15.1f.kfs.81q.txt | 1.00 | 20 | 1.23018 + 0.00306 | 0.4255 + 0.00137 | 0.00514 + 0.00006 | 0.01947 + 0.00024 | 0.0000098 + 0.0000190 | 6.68E-15 | 100% | 2.8882562 | 15.301 ± 0.094 | 1% |
| au15.1f.kfs.81r.txt | 1.10 | 20 | 1.81651 + 0.00283 | 0.6258 + 0.00125 | 0.00742 + 0.00006 | 0.02786 + 0.00038 | 0.0000164 + 0.0000203 | 9.86E-15 | 100% | 2.8984743 | 15.354 ± 0.064 | 0% |
| au15.1f.kfs.81s.txt | 1.20 | 20 | 0.36341 + 0.00057 | 0.1269 + 0.00050 | 0.00148 + 0.00004 | 0.00550 + 0.00023 | -0.0000307 + 0.0000200 | 1.97E-15 | 103% | 2.867339 | 15.190 ± 0.255 | 2% |
| au15.1f.kfs.81t.txt | 1.30 | 20 | 0.30652 + 0.00042 | 0.1060 + 0.00050 | 0.00138 + 0.00005 | 0.00458 + 0.00029 | -0.0000203 + 0.0000172 | 1.66E-15 | 102% | 2.8941704 | 15.332 ± 0.265 | 2% |
| au15.1f.kfs.81u.txt | 1.40 | 20 | 0.10447 + 0.00039 | 0.0355 + 0.00015 | 0.00040 + 0.00002 | 0.00142 + 0.00019 | -0.0000122 + 0.0000169 | 5.67E-16 | 104% | 2.9481046 | 15.616 ± 0.750 | 5% |
| au15.1f.kfs.81v.txt | 1.50 | 20 | 0.08782 + 0.00036 | 0.0299 + 0.00010 | 0.00039 + 0.00002 | 0.00160 + 0.00022 | -0.0000311 + 0.0000189 | 4.77E-16 | 111% | 2.9404763 | 15.576 ± 0.991 | 6% |
| au15.1f.kfs.81w.txt | 1.70 | 10 | 0.01552 + 0.00022 | 0.0054 + 0.00007 | 0.00006 + 0.00002 | 0.00066 + 0.00021 | -0.0000046 + 0.0000177 | 8.42E-17 | 109% | 2.8626059 | 15.17 ± 5.094 | 34% |
| Age = 15.349±0.048 Ma (1s), MSWD = 0.74, probability = 0.78, 100% of the 39Ar, steps 1 through 20 | | | | | | | | | | | | |



Sanidine phenocrysts of sample JC-09-15. 20-30 mesh size, field of view is ~ 6 mm wide (grid spacing is 1 mm).

**JC-09-15, Total-Fusion Analyses of Single Crystals (J=0.002897+/-0.0000120, 0.41%, 1s)**

| | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| au15.1c.kfs.46a.txt | 1.50 | 10 | 3.57480 ± 0.00312 | 1.1896 ± 0.00185 | 0.01442 ± 0.00006 | 0.03705 ± 0.00041 | 0.0003289 ± 0.0000209 | 1.94E-14 | 97% | 2.92584 | 15.227 ± 0.039 | 0.26% |
| au15.1c.kfs.47a.txt | 1.50 | 10 | 0.46784 ± 0.00061 | 0.1510 ± 0.00066 | 0.00191 ± 0.00005 | 0.19037 ± 0.00161 | 0.0001513 ± 0.0000189 | 2.54E-15 | 94% | 2.90735 | 15.131 ± 0.207 | 1.37% |
| au15.1c.kfs.48a.txt | 1.50 | 10 | 4.10478 ± 0.00583 | 1.3820 ± 0.00128 | 0.01689 ± 0.00008 | 0.06487 ± 0.00044 | 0.0003226 ± 0.0000194 | 2.23E-14 | 98% | 2.90518 | 15.120 ± 0.034 | 0.22% |
| au15.1c.kfs.49a.txt | 1.50 | 10 | 2.81708 ± 0.00200 | 0.9193 ± 0.00176 | 0.01129 ± 0.00010 | 0.02221 ± 0.00027 | 0.0004371 ± 0.0000222 | 1.53E-14 | 95% | 2.92574 | 15.227 ± 0.049 | 0.32% |
| au15.1c.kfs.50a.txt | 1.50 | 10 | 2.85534 ± 0.00183 | 0.9676 ± 0.00125 | 0.01177 ± 0.00009 | 0.03380 ± 0.00041 | 0.0001121 ± 0.0000170 | 1.55E-14 | 99% | 2.91962 | 15.195 ± 0.035 | 0.23% |
| au15.1c.kfs.51a.txt | 1.50 | 10 | 2.39964 ± 0.00339 | 0.8112 ± 0.00134 | 0.00988 ± 0.00008 | 0.01937 ± 0.00025 | 0.0001208 ± 0.0000253 | 1.30E-14 | 99% | 2.91603 | 15.176 ± 0.058 | 0.39% |
| au15.1c.kfs.52a.txt | 1.50 | 10 | 2.61605 ± 0.00096 | 0.8878 ± 0.00172 | 0.01076 ± 0.00008 | 0.02247 ± 0.00029 | 0.0001239 ± 0.0000174 | 1.42E-14 | 99% | 2.90768 | 15.133 ± 0.043 | 0.28% |
| au15.1c.kfs.53a.txt | 1.50 | 10 | 3.04247 ± 0.00406 | 1.0129 ± 0.00309 | 0.01238 ± 0.00008 | 0.03369 ± 0.00028 | 0.0004315 ± 0.0000179 | 1.65E-14 | 96% | 2.88070 | 14.993 ± 0.059 | 0.39% |
| au15.1c.kfs.54a.txt | 1.50 | 10 | 2.49799 ± 0.00131 | 0.8467 ± 0.00038 | 0.01039 ± 0.00009 | 0.03121 ± 0.00025 | 0.0000758 ± 0.0000184 | 1.36E-14 | 99% | 2.92671 | 15.232 ± 0.035 | 0.23% |
| au15.1c.kfs.55a.txt | 1.50 | 10 | 3.43505 ± 0.00205 | 1.1729 ± 0.00030 | 0.01420 ± 0.00007 | 0.03671 ± 0.00029 | 0.0000648 ± 0.0000170 | 1.86E-14 | 100% | 2.91498 | 15.171 ± 0.024 | 0.16% |
| au15.1c.kfs.56a.txt | 1.50 | 10 | 1.26279 ± 0.00128 | 0.4272 ± 0.00083 | 0.00524 ± 0.00007 | 0.01423 ± 0.00051 | 0.0000781 ± 0.0000189 | 6.85E-15 | 98% | 2.90456 | 15.117 ± 0.076 | 0.50% |
| au15.1c.kfs.57a.txt | 1.50 | 10 | 0.39999 ± 0.00066 | 0.1270 ± 0.00048 | 0.00160 ± 0.00004 | 0.16595 ± 0.00113 | 0.0001501 ± 0.0000214 | 2.17E-15 | 92% | 2.91035 | 15.147 ± 0.268 | 1.77% |
| au15.1c.kfs.58a.txt | 1.50 | 10 | 3.36152 ± 0.00307 | 1.1258 ± 0.00199 | 0.01416 ± 0.00015 | 0.02332 ± 0.00037 | 0.0001661 ± 0.0000208 | 1.82E-14 | 99% | 2.94403 | 15.321 ± 0.042 | 0.27% |
| au15.1c.kfs.59a.txt | 1.50 | 10 | 2.77995 ± 0.00225 | 0.9443 ± 0.00099 | 0.01149 ± 0.00008 | 0.02502 ± 0.00032 | 0.0000941 ± 0.0000192 | 1.51E-14 | 99% | 2.91679 | 15.180 ± 0.037 | 0.25% |
| au15.1c.kfs.60a.txt | 1.50 | 10 | 4.29667 ± 0.00214 | 1.4545 ± 0.00129 | 0.01764 ± 0.00013 | 0.04918 ± 0.00047 | 0.0002198 ± 0.0000241 | 2.33E-14 | 99% | 2.91224 | 15.157 ± 0.030 | 0.20% |
| | | | | | | | | Single Crystal Total Gas Ages: | | | 15.071 ± 0.043 | |
| Biweight Mean = 15.186±0.049 (±0.17 with J-value error) at the 95% confidence level. MSWD =3.5, probability = 0.000 | | | | | | | | | | | 15.370 ± 0.051 | |
| | | | | | | | | | | | 15.292 ± 0.038 | |
| | | | | | | | | | | | 15.093 ± 0.041 | |
| | | | | | | | | | | | 15.480 ± 0.370 | |

**JC-09-15, Incremental Heating Analyses of Single Crystals**

| | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| au15.1c.kfs.45b.txt | 0.45 | 20 | 0.02806 + 0.00030 | 0.0042 + 0.00005 | 0.00006 + 0.00003 | 0.00069 + 0.00026 | 0.0000501 + 0.0000175 | 1.52E-16 | 47% | 3.1455703 | 16.37 ± 6.36 | 39% |
| au15.1c.kfs.45c.txt | 0.50 | 20 | 0.02993 + 0.00023 | 0.0087 + 0.00006 | 0.00014 + 0.00003 | 0.00115 + 0.00020 | 0.0000131 + 0.0000180 | 1.62E-16 | 87% | 2.9916572 | 15.57 ± 3.15 | 20% |
| au15.1c.kfs.45d.txt | 0.54 | 20 | 0.01780 + 0.00023 | 0.0057 + 0.00004 | 0.00007 + 0.00003 | 0.00083 + 0.00014 | -0.0000101 + 0.0000202 | 9.66E-17 | 117% | 3.1566694 | 16.42 ± 5.44 | 33% |
| au15.1c.kfs.45e.txt | 0.58 | 20 | 0.01545 + 0.00029 | 0.0049 + 0.00005 | 0.00009 + 0.00003 | 0.00049 + 0.00017 | 0.0000235 + 0.0000193 | 8.38E-17 | 55% | 1.7457983 | 9.10 ± 6.04 | 67% |
| au15.1c.kfs.45f.txt | 0.62 | 20 | 0.06149 + 0.00037 | 0.0206 + 0.00017 | 0.00022 + 0.00004 | 0.00103 + 0.00031 | 0.0000342 + 0.0000170 | 3.34E-16 | 84% | 2.5030672 | 13.035 ± 1.273 | 10% |
| au15.1c.kfs.45g.txt | 0.66 | 20 | 0.48969 + 0.00062 | 0.1605 + 0.00062 | 0.00192 + 0.00005 | 0.00595 + 0.00026 | 0.0001099 + 0.0000170 | 2.66E-15 | 93% | 2.8523485 | 14.846 ± 0.174 | 1% |
| au15.1c.kfs.45h.txt | 0.70 | 20 | 0.16555 + 0.00090 | 0.0558 + 0.00052 | 0.00069 + 0.00003 | 0.00171 + 0.00023 | 0.0000305 + 0.0000164 | 8.99E-16 | 95% | 2.8089162 | 14.621 ± 0.479 | 3% |

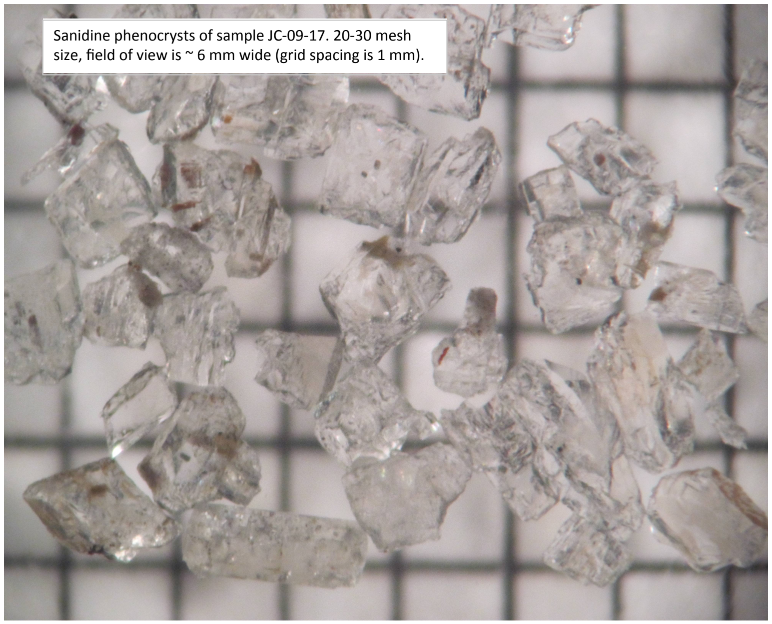
| | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| au15.1c.kfs.45i.txt | 0.73 | 20 | 1.16079 + 0.00153 | 0.3853 + 0.00133 | 0.00468 + 0.00008 | 0.01476 + 0.00036 | 0.0001410 + 0.0000185 | 6.30E-15 | 97% | 2.907525 | 15.132 ± 0.093 | 1% |
| au15.1c.kfs.45j.txt | 0.76 | 20 | 0.09814 + 0.00019 | 0.0329 + 0.00021 | 0.00036 + 0.00003 | 0.00110 + 0.00017 | 0.0000256 + 0.0000138 | 5.33E-16 | 92% | 2.7571835 | 14.353 ± 0.648 | 5% |
| au15.1c.kfs.45k.txt | 0.79 | 20 | 0.46128 + 0.00103 | 0.1568 + 0.00032 | 0.00187 + 0.00004 | 0.00545 + 0.00018 | 0.0000276 + 0.0000168 | 2.50E-15 | 98% | 2.8926403 | 15.055 ± 0.169 | 1% |
| au15.1c.kfs.45l.txt | 0.81 | 20 | 0.36139 + 0.00088 | 0.1219 + 0.00072 | 0.00143 + 0.00005 | 0.00433 + 0.00022 | 0.0000135 + 0.0000142 | 1.96E-15 | 99% | 2.9348785 | 15.274 ± 0.203 | 1% |
| au15.1c.kfs.45m.txt | 0.85 | 20 | 0.88153 + 0.00121 | 0.3016 + 0.00087 | 0.00353 + 0.00004 | 0.01038 + 0.00024 | 0.0000257 + 0.0000154 | 4.78E-15 | 99% | 2.9000632 | 15.094 ± 0.091 | 1% |
| au15.1c.kfs.45n.txt | 0.90 | 20 | 0.67250 + 0.00115 | 0.2290 + 0.00097 | 0.00278 + 0.00006 | 0.00821 + 0.00020 | 0.0000482 + 0.0000147 | 3.65E-15 | 98% | 2.8774255 | 14.976 ± 0.120 | 1% |
| au15.1c.kfs.45o.txt | 0.95 | 20 | 0.67721 + 0.00087 | 0.2320 + 0.00068 | 0.00278 + 0.00005 | 0.00794 + 0.00025 | 0.0000385 + 0.0000143 | 3.68E-15 | 98% | 2.8729442 | 14.953 ± 0.106 | 1% |
| au15.1c.kfs.45p.txt | 1.00 | 20 | 0.26654 + 0.00081 | 0.0904 + 0.00062 | 0.00110 + 0.00004 | 0.00316 + 0.00022 | 0.0000092 + 0.0000156 | 1.45E-15 | 99% | 2.9215895 | 15.205 ± 0.287 | 2% |
| au15.1c.kfs.45q.txt | 1.10 | 20 | 0.07859 + 0.00028 | 0.0262 + 0.00031 | 0.00035 + 0.00004 | 0.00049 + 0.00023 | -0.0000155 + 0.0000155 | 4.27E-16 | 106% | 3.004638 | 15.636 ± 0.922 | 6% |
| au15.1c.kfs.45r.txt | 1.20 | 20 | 0.20166 + 0.00055 | 0.0669 + 0.00018 | 0.00079 + 0.00003 | 0.00188 + 0.00012 | 0.0000043 + 0.0000127 | 1.09E-15 | 99% | 2.9959485 | 15.591 ± 0.294 | 2% |
| au15.1c.kfs.45s.txt | 1.30 | 20 | 0.24100 + 0.00045 | 0.0796 + 0.00056 | 0.00095 + 0.00005 | 0.00242 + 0.00020 | 0.0000037 + 0.0000179 | 1.31E-15 | 100% | 3.0165972 | 15.697 ± 0.361 | 2% |
| au15.1c.kfs.45u.txt | 1.70 | 15 | 0.23505 + 0.00071 | 0.0794 + 0.00055 | 0.00088 + 0.00004 | 0.00206 + 0.00020 | 0.0000070 + 0.0000157 | 1.28E-15 | 99% | 2.9379049 | 15.290 ± 0.323 | 2% |
| Plateau Age = 15.045±0.044 Ma (1s), MSWD = 0.74, probability = 0.75, 89% of the 39Ar, steps 1 through 16. Total Gas Age = 15.071±0.043 Ma | | | | | | | | | | | | |
| au15.1c.kfs.44a.txt | 0.40 | 20 | 0.00586 + 0.00020 | 0.0000 + 0.00003 | 0.00001 + 0.00003 | -0.00028 + 0.00009 | 0.0000164 + 0.0000185 | 3.18E-17 | 17% | 30.806913 | 154 ± 1447 | 938% |
| au15.1c.kfs.44b.txt | 0.45 | 20 | 0.00471 + 0.00020 | 0.0006 + 0.00003 | -0.00006 + 0.00003 | -0.00007 + 0.00014 | 0.0000380 + 0.0000182 | 2.55E-17 | -138% | -10.37166 | -55.0 ± 45.7 | 83% |
| au15.1c.kfs.44c.txt | 0.50 | 20 | 0.00876 + 0.00018 | 0.0018 + 0.00004 | 0.00006 + 0.00004 | 0.00016 + 0.00019 | 0.0000108 + 0.0000193 | 4.75E-17 | 64% | 3.0907524 | 16.1 ± 16.4 | 102% |
| au15.1c.kfs.44d.txt | 0.54 | 20 | 0.01110 + 0.00017 | 0.0022 + 0.00006 | 0.00004 + 0.00004 | 0.00112 + 0.00031 | 0.0000143 + 0.0000188 | 6.03E-17 | 63% | 3.1181831 | 16.2 ± 12.9 | 80% |
| au15.1c.kfs.44e.txt | 0.58 | 20 | 0.01523 + 0.00025 | 0.0039 + 0.00014 | 0.00003 + 0.00003 | 0.00014 + 0.00015 | 0.0000102 + 0.0000153 | 8.27E-17 | 80% | 3.1470596 | 16.37 ± 6.11 | 37% |
| au15.1c.kfs.44f.txt | 0.62 | 20 | 0.04390 + 0.00024 | 0.0132 + 0.00026 | 0.00022 + 0.00004 | 0.00071 + 0.00020 | -0.0000002 + 0.0000145 | 2.38E-16 | 100% | 3.3380288 | 17.36 ± 1.73 | 10% |
| au15.1c.kfs.44g.txt | 0.66 | 20 | 0.10046 + 0.00023 | 0.0315 + 0.00025 | 0.00045 + 0.00003 | 0.00218 + 0.00015 | 0.0000234 + 0.0000293 | 5.45E-16 | 93% | 2.9748143 | 15.481 ± 1.437 | 9% |
| au15.1c.kfs.44h.txt | 0.70 | 20 | 0.10614 + 0.00018 | 0.0324 + 0.00022 | 0.00043 + 0.00004 | 0.00221 + 0.00011 | 0.0000163 + 0.0000278 | 5.76E-16 | 96% | 3.1327058 | 16.299 ± 1.326 | 8% |
| au15.1c.kfs.44i.txt | 0.73 | 20 | 0.11180 + 0.00021 | 0.0347 + 0.00042 | 0.00047 + 0.00003 | 0.00198 + 0.00018 | 0.0000448 + 0.0000152 | 6.07E-16 | 88% | 2.8428289 | 14.797 ± 0.706 | 5% |
| au15.1c.kfs.44j.txt | 0.76 | 20 | 0.11840 + 0.00021 | 0.0378 + 0.00036 | 0.00049 + 0.00003 | 0.00152 + 0.00019 | 0.0000001 + 0.0000145 | 6.43E-16 | 100% | 3.1337079 | 16.304 ± 0.610 | 4% |
| au15.1c.kfs.44k.txt | 0.79 | 20 | 0.17715 + 0.00039 | 0.0579 + 0.00038 | 0.00068 + 0.00003 | 0.00271 + 0.00018 | -0.0000055 + 0.0000161 | 9.61E-16 | 101% | 3.0623477 | 15.935 ± 0.441 | 3% |
| au15.1c.kfs.44l.txt | 0.82 | 20 | 0.31305 + 0.00079 | 0.1019 + 0.00046 | 0.00120 + 0.00005 | 0.00363 + 0.00025 | 0.0000063 + 0.0000163 | 1.70E-15 | 99% | 3.055807 | 15.901 ± 0.260 | 2% |
| au15.1c.kfs.44m.txt | 0.86 | 20 | 0.48333 + 0.00074 | 0.1615 + 0.00061 | 0.00192 + 0.00003 | 0.00598 + 0.00020 | 0.0000341 + 0.0000174 | 2.62E-15 | 98% | 2.9341614 | 15.270 ± 0.178 | 1% |
| au15.1c.kfs.44n.txt | 0.90 | 20 | 0.45969 + 0.00079 | 0.1551 + 0.00079 | 0.00207 + 0.00007 | 0.00642 + 0.00043 | 0.0000280 + 0.0000150 | 2.50E-15 | 98% | 2.9143858 | 15.168 ± 0.170 | 1% |
| au15.1c.kfs.44o.txt | 0.95 | 20 | 0.49093 + 0.00093 | 0.1660 + 0.00055 | 0.00212 + 0.00006 | 0.00551 + 0.00023 | -0.0000123 + 0.0000152 | 2.66E-15 | 101% | 2.9603305 | 15.406 ± 0.152 | 1% |
| au15.1c.kfs.44p.txt | 1.00 | 20 | 0.36997 + 0.00118 | 0.1243 + 0.00026 | 0.00145 + 0.00005 | 0.00531 + 0.00026 | 0.0000217 + 0.0000152 | 2.01E-15 | 98% | 2.9273463 | 15.235 ± 0.198 | 1% |
| au15.1c.kfs.44q.txt | 1.15 | 20 | 0.16111 + 0.00039 | 0.0550 + 0.00033 | 0.00060 + 0.00005 | 0.00170 + 0.00014 | -0.0000048 + 0.0000151 | 8.74E-16 | 101% | 2.933634 | 15.268 ± 0.433 | 3% |
| au15.1c.kfs.44r.txt | 1.30 | 20 | 0.13889 + 0.00033 | 0.0469 + 0.00049 | 0.00057 + 0.00004 | 0.00178 + 0.00018 | -0.0000126 + 0.0000169 | 7.54E-16 | 103% | 2.9674958 | 15.443 ± 0.578 | 4% |
| au15.1c.kfs.44s.txt | 1.50 | 20 | 0.83090 + 0.00045 | 0.2804 + 0.00057 | 0.00328 + 0.00007 | 0.01017 + 0.00017 | 0.0000101 + 0.0000153 | 4.51E-15 | 100% | 2.9554737 | 15.381 ± 0.090 | 1% |
| au15.1c.kfs.44t.txt | 1.70 | 20 | 0.70767 + 0.00110 | 0.2384 + 0.00040 | 0.00295 + 0.00005 | 0.00826 + 0.00018 | 0.0000173 + 0.0000163 | 3.84E-15 | 99% | 2.9500837 | 15.353 ± 0.111 | 1% |
| au15.1c.kfs.44u.txt | 1.80 | 20 | 0.16536 + 0.00036 | 0.0569 + 0.00036 | 0.00072 + 0.00004 | 0.00195 + 0.00022 | -0.0000243 + 0.0000179 | 8.98E-16 | 104% | 2.9102969 | 15.147 ± 0.494 | 3% |
| Plateau Age = 15.370±0.051 Ma, (1s), MSWD = 0.78, probability = 0.74. 100% of the 39Ar, steps 1 through 21 | | | | | | | | | | | | |
| au15.1c.kfs.43a.txt | 0.45 | 20 | 0.03848 + 0.00031 | 0.0016 + 0.00004 | 0.00005 + 0.00004 | -0.00010 + 0.00013 | 0.0001064 + 0.0000151 | 2.09E-16 | 18% | 4.5103692 | 23.42 ± 15.59 | 67% |
| au15.1c.kfs.43b.txt | 0.50 | 20 | 0.02067 + 0.00028 | 0.0057 + 0.00005 | 0.00004 + 0.00004 | 0.00018 + 0.00012 | 0.0000278 + 0.0000165 | 1.12E-16 | 60% | 2.1897496 | 11.41 ± 4.47 | 39% |
| au15.1c.kfs.43c.txt | 0.54 | 20 | 0.00620 + 0.00018 | 0.0018 + 0.00004 | 0.00002 + 0.00003 | -0.00031 + 0.00017 | -0.0000258 + 0.0000159 | 3.36E-17 | 223% | 3.4447966 | 17.91 ± 13.70 | 76% |
| au15.1c.kfs.43d.txt | 0.58 | 20 | 0.11728 + 0.00030 | 0.0382 + 0.00018 | 0.00044 + 0.00005 | 0.00160 + 0.00023 | 0.0000194 + 0.0000165 | 6.37E-16 | 95% | 2.9242168 | 15.219 ± 0.671 | 4% |
| au15.1c.kfs.43e.txt | 0.62 | 20 | 0.10052 + 0.00022 | 0.0329 + 0.00029 | 0.00039 + 0.00004 | 0.00084 + 0.00014 | 0.0000270 + 0.0000168 | 5.46E-16 | 92% | 2.8168343 | 14.662 ± 0.801 | 5% |
| au15.1c.kfs.43f.txt | 0.66 | 20 | 0.31886 + 0.00091 | 0.1057 + 0.00020 | 0.00125 + 0.00004 | 0.00325 + 0.00015 | 0.0000188 + 0.0000174 | 1.73E-15 | 98% | 2.9651845 | 15.431 ± 0.259 | 2% |
| au15.1c.kfs.43g.txt | 0.70 | 20 | 0.48736 + 0.00088 | 0.1642 + 0.00044 | 0.00197 + 0.00005 | 0.00591 + 0.00024 | -0.0000007 + 0.0000153 | 2.65E-15 | 100% | 2.9710425 | 15.461 ± 0.152 | 1% |
| au15.1c.kfs.43h.txt | 0.73 | 20 | 0.80826 + 0.00163 | 0.2762 + 0.00133 | 0.00324 + 0.00006 | 0.00901 + 0.00029 | -0.0000098 + 0.0000155 | 4.39E-15 | 100% | 2.9290788 | 15.244 ± 0.117 | 1% |
| au15.1c.kfs.43i.txt | 0.76 | 20 | 0.19290 + 0.00035 | 0.0662 + 0.00054 | 0.00080 + 0.00004 | 0.00345 + 0.00022 | -0.0000196 + 0.0000181 | 1.05E-15 | 103% | 2.9174459 | 15.184 ± 0.439 | 3% |
| au15.1c.kfs.43j.txt | 0.79 | 20 | 0.35881 + 0.00096 | 0.1232 + 0.00024 | 0.00148 + 0.00004 | 0.00447 + 0.00021 | 0.0000009 + 0.0000256 | 1.95E-15 | 100% | 2.9141211 | 15.166 ± 0.323 | 2% |
| au15.1c.kfs.43k.txt | 0.82 | 20 | 0.51993 + 0.00055 | 0.1773 + 0.00086 | 0.00213 + 0.00004 | 0.00563 + 0.00025 | -0.0000100 + 0.0000270 | 2.82E-15 | 101% | 2.9351757 | 15.276 ± 0.246 | 2% |
| au15.1c.kfs.43l.txt | 0.86 | 20 | 0.88904 + 0.00125 | 0.3003 + 0.00060 | 0.00358 + 0.00005 | 0.00962 + 0.00027 | 0.0000270 + 0.0000201 | 4.83E-15 | 99% | 2.9366867 | 15.283 ± 0.109 | 1% |
| au15.1c.kfs.43m.txt | 0.90 | 20 | 0.23291 + 0.00052 | 0.0800 + 0.00031 | 0.00097 + 0.00003 | 0.00244 + 0.00021 | -0.0000135 + 0.0000167 | 1.26E-15 | 102% | 2.9141704 | 15.167 ± 0.328 | 2% |
| au15.1c.kfs.43n.txt | 0.95 | 20 | 0.82445 + 0.00106 | 0.2808 + 0.00078 | 0.00350 + 0.00007 | 0.00797 + 0.00047 | -0.0000232 + 0.0000163 | 4.47E-15 | 101% | 2.938708 | 15.294 ± 0.101 | 1% |
| au15.1c.kfs.43o.txt | 1.00 | 20 | 0.57503 + 0.00088 | 0.1957 + 0.00047 | 0.00232 + 0.00005 | 0.00711 + 0.00021 | -0.0000097 + 0.0000156 | 3.12E-15 | 101% | 2.9414049 | 15.308 ± 0.130 | 1% |
| au15.1c.kfs.43p.txt | 1.15 | 20 | 1.34289 + 0.00134 | 0.4576 + 0.00080 | 0.00537 + 0.00006 | 0.01390 + 0.00031 | -0.0000333 + 0.0000162 | 7.29E-15 | 101% | 2.9372557 | 15.286 ± 0.063 | 0% |
| au15.1c.kfs.43q.txt | 1.30 | 20 | 0.28566 + 0.00082 | 0.0978 + 0.00046 | 0.00116 + 0.00005 | 0.00358 + 0.00028 | -0.0000011 + 0.0000179 | 1.55E-15 | 100% | 2.9245275 | 15.220 ± 0.294 | 2% |
| au15.1c.kfs.43r.txt | 1.50 | 20 | 0.04214 + 0.00023 | 0.0141 + 0.00021 | 0.00021 + 0.00003 | 0.00072 + 0.00018 | 0.0000030 + 0.0000310 | 2.29E-16 | 98% | 2.9199554 | 15.20 ± 3.378 | 22% |
| au15.1c.kfs.43s.txt | 1.70 | 20 | 0.10169 + 0.00024 | 0.0345 + 0.00040 | 0.00045 + 0.00003 | 0.00141 + 0.00026 | -0.0000068 + 0.0000184 | 5.52E-16 | 102% | 2.9512918 | 15.359 ± 0.840 | 5% |
| Age = 15.292±0.038 Ma (1s), MSWD = 0.21, probability = 1.000. 100% of the 39Ar, steps 1 through 19 | | | | | | | | | | | | |
| au15.1c.kfs.42a.txt | 0.45 | 20 | 0.03892 + 0.00028 | 0.0035 + 0.00007 | 0.00009 + 0.00004 | 0.00025 + 0.00013 | 0.0000561 + 0.0000166 | 2.11E-16 | 57% | 6.3453596 | 32.86 ± 7.336 | 22% |
| au15.1c.kfs.42c.txt | 0.54 | 20 | 0.05075 + 0.00024 | 0.0166 + 0.00013 | 0.00019 + 0.00003 | 0.00100 + 0.00015 | 0.0000015 + 0.0000170 | 2.75E-16 | 99% | 3.0328658 | 15.78 ± 1.580 | 10% |
| au15.1c.kfs.42d.txt | 0.58 | 20 | 0.02867 + 0.00033 | 0.0092 + 0.00008 | 0.00013 + 0.00003 | 0.00028 + 0.00019 | -0.0000045 + 0.0000176 | 1.56E-16 | 105% | 3.1144615 | 16.20 ± 2.940 | 18% |
| au15.1c.kfs.42e.txt | 0.62 | 20 | 0.01489 + 0.00022 | 0.0048 + 0.00005 | 0.00007 + 0.00004 | 0.00006 + 0.00016 | 0.0000083 + 0.0000192 | 8.08E-17 | 84% | 2.609431 | 13.59 ± 6.221 | 46% |
| au15.1c.kfs.42f.txt | 0.66 | 20 | 0.02759 + 0.00023 | 0.0092 + 0.00014 | 0.00010 + 0.00003 | 0.00024 + 0.00017 | 0.0000361 + 0.0000171 | 1.50E-16 | 61% | 1.8479645 | 9.63 ± 2.891 | 30% |
| au15.1c.kfs.42g.txt | 0.70 | 20 | 0.06210 + 0.00027 | 0.0209 + 0.00023 | 0.00024 + 0.00003 | 0.00047 + 0.00014 | 0.0000258 + 0.0000180 | 3.37E-16 | 88% | 2.6141278 | 13.61 ± 1.342 | 10% |
| au15.1c.kfs.42h.txt | 0.73 | 20 | 0.04774 + 0.00036 | 0.0154 + 0.00022 | 0.00019 + 0.00003 | 0.00053 + 0.00022 | 0.0000500 + 0.0000171 | 2.59E-16 | 69% | 2.1379571 | 11.14 ± 1.729 | 16% |
| au15.1c.kfs.42i.txt | 0.76 | 20 | 0.98861 + 0.00207 | 0.3206 + 0.00116 | 0.00373 + 0.00006 | 0.00809 + 0.00023 | 0.0001979 + 0.0000206 | 5.37E-15 | 94% | 2.9034034 | 15.111 ± 0.119 | 1% |
| au15.1c.kfs.42j.txt | 0.80 | 20 | 0.39675 + 0.00079 | 0.1347 + 0.00044 | 0.00156 + 0.00004 | 0.00316 + 0.00021 | 0.0000068 + 0.0000205 | 2.15E-15 | 100% | 2.9332832 | 15.266 ± 0.242 | 2% |
| au15.1c.kfs.42k.txt | 0.85 | 20 | 0.68318 + 0.00149 | 0.2344 + 0.00050 | 0.00283 + 0.00005 | 0.00589 + 0.00017 | 0.0000270 + 0.0000158 | 3.71E-15 | 99% | 2.8830951 | 15.006 ± 0.113 | 1% |
| au15.1c.kfs.42l.txt | 0.90 | 20 | 1.46631 + 0.00166 | 0.4984 + 0.00139 | 0.00608 + 0.00006 | 0.01377 + 0.00044 | 0.0000813 + 0.0000186 | 7.96E-15 | 98% | 2.8962018 | 15.074 ± 0.074 | 0% |
| au15.1c.kfs.42m.txt | 0.95 | 20 | 0.32759 + 0.00049 | 0.1113 + 0.00034 | 0.00131 + 0.00004 | 0.00249 + 0.00016 | 0.0000289 + 0.0000184 | 1.78E-15 | 97% | 2.8691259 | 14.933 ± 0.260 | 2% |
| au15.1c.kfs.42n.txt | 1.00 | 20 | 0.67721 + 0.00058 | 0.2274 + 0.00049 | 0.00267 + 0.00005 | 0.00519 + 0.00020 | 0.0000458 + 0.0000172 | 3.68E-15 | 98% | 2.920298 | 15.198 ± 0.122 | 1% |
| au15.1c.kfs.42o.txt | 1.10 | 20 | 0.05729 + 0.00030 | 0.0189 + 0.00009 | 0.00022 + 0.00004 | 0.00037 + 0.00022 | 0.0000287 + 0.0000199 | 3.11E-16 | 85% | 2.5849221 | 13.46 ± 1.627 | 12% |
| au15.1c.kfs.42p.txt | 1.20 | 20 | 0.07307 + 0.00036 | 0.0248 + 0.00028 | 0.00023 + 0.00003 | 0.00041 + 0.00023 | 0.0000036 + 0.0000190 | 3.97E-16 | 99% | 2.9050298 | 15.12 ± 1.194 | 8% |
| au15.1c.kfs.42q.txt | 1.35 | 20 | 0.20851 + 0.00082 | 0.0699 + 0.00020 | 0.00083 + 0.00003 | 0.00151 + 0.00015 | 0.0000308 + 0.0000160 | 1.13E-15 | 96% | 2.8539807 | 14.855 ± 0.359 | 2% |
| au15.1c.kfs.42r.txt | 1.50 | 20 | 1.29867 + 0.00089 | 0.4217 + 0.00062 | 0.00505 + 0.00004 | 0.01035 + 0.00021 | 0.0002470 + 0.0000205 | 7.05E-15 | 94% | 2.9084287 | 15.137 ± 0.079 | 1% |
| au15.1c.kfs.42s.txt | 1.65 | 20 | 0.24894 + 0.00089 | 0.0751 + 0.00044 | 0.00091 + 0.00003 | 0.00151 + 0.00017 | 0.0001078 + 0.0000185 | 1.35E-15 | 87% | 2.894089 | 15.063 ± 0.398 | 3% |
| au15.1c.kfs.42t.txt | 1.80 | 20 | 0.06669 + 0.00028 | 0.0208 + 0.00016 | 0.00027 + 0.00004 | 0.00038 + 0.00019 | 0.0000283 + 0.0000177 | 3.62E-16 | 87% | 2.798462 | 14.567 ± 1.313 | 9% |

Brueseke et al. Table DR2

Age = 15.093±0.041 Ma, (1s), MSWD = 0.86, probability = 0.62. 99.84% of the 39Ar, steps 2 through 19

| | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| au15.1c.kfs.41a.txt | 0.50 | 20 | 0.01691 + 0.00029 | 0.0034 + 0.00005 | 0.00005 + 0.00004 | 0.00207 + 0.00019 | 0.0000007 + 0.0000160 | 9.18E-17 | 100% | 5.0028693 | 25.96 ± 7.30 | 28% |
| au15.1c.kfs.41b.txt | 0.54 | 20 | 0.00643 + 0.00014 | 0.0019 + 0.00004 | -0.00003 + 0.00004 | 0.00120 + 0.00016 | 0.0000039 + 0.0000171 | 3.49E-17 | 83% | 2.8718302 | 14.95 ± 14.10 | 94% |
| au15.1c.kfs.41c.txt | 0.58 | 20 | 0.00921 + 0.00028 | 0.0029 + 0.00005 | 0.00005 + 0.00004 | 0.00233 + 0.00018 | 0.0000020 + 0.0000156 | 5.00E-17 | 96% | 3.0187825 | 15.71 ± 8.24 | 52% |
| au15.1c.kfs.41d.txt | 0.62 | 20 | 0.06502 + 0.00027 | 0.0182 + 0.00013 | 0.00023 + 0.00004 | 0.01682 + 0.00047 | 0.0000473 + 0.0000134 | 3.53E-16 | 81% | 2.8866182 | 15.024 ± 1.145 | 8% |
| au15.1c.kfs.41e.txt | 0.66 | 20 | 0.04738 + 0.00027 | 0.0150 + 0.00015 | 0.00018 + 0.00004 | 0.01511 + 0.00026 | 0.0000333 + 0.0000152 | 2.57E-16 | 82% | 2.5835487 | 13.452 ± 1.570 | 12% |
| au15.1c.kfs.41f.txt | 0.70 | 20 | 0.02680 + 0.00022 | 0.0082 + 0.00007 | 0.00008 + 0.00004 | 0.00974 + 0.00026 | 0.0000373 + 0.0000161 | 1.45E-16 | 62% | 2.0133576 | 10.49 ± 3.010 | 29% |
| au15.1c.kfs.41g.txt | 0.73 | 20 | 0.11245 + 0.00037 | 0.0181 + 0.00012 | 0.00021 + 0.00005 | 0.02371 + 0.00039 | 0.0002013 + 0.0000174 | 6.10E-16 | 49% | 3.0329692 | 15.782 ± 1.505 | 10% |
| au15.1c.kfs.41h.txt | 0.76 | 20 | 0.09451 + 0.00024 | 0.0304 + 0.00023 | 0.00033 + 0.00004 | 0.03992 + 0.00041 | -0.0000115 + 0.0000265 | 5.13E-16 | 107% | 3.2238641 | 16.771 ± 1.347 | 8% |
| au15.1c.kfs.41i.txt | 0.80 | 20 | 0.04094 + 0.00034 | 0.0139 + 0.00012 | 0.00014 + 0.00004 | 0.01773 + 0.00032 | -0.0000089 + 0.0000123 | 2.22E-16 | 110% | 3.0564247 | 15.904 ± 1.372 | 9% |
| au15.1c.kfs.41k.txt | 0.90 | 20 | 0.00941 + 0.00022 | 0.0030 + 0.00006 | 0.00006 + 0.00004 | 0.00393 + 0.00013 | 0.0000010 + 0.0000198 | 5.11E-17 | 100% | 3.1329356 | 16.30 ± 10.126 | 62% |
| au15.1c.kfs.41l.txt | 0.95 | 20 | 0.02553 + 0.00015 | 0.0084 + 0.00008 | 0.00008 + 0.00003 | 0.01064 + 0.00030 | 0.0000048 + 0.0000204 | 1.39E-16 | 98% | 2.9569094 | 15.388 ± 3.708 | 24% |
| au15.1c.kfs.41m.txt | 1.00 | 20 | 0.09325 + 0.00017 | 0.0248 + 0.00016 | 0.00033 + 0.00004 | 0.03403 + 0.00082 | 0.0000886 + 0.0000218 | 5.06E-16 | 75% | 2.8145148 | 14.650 ± 1.360 | 9% |
| au15.1c.kfs.41n.txt | 1.10 | 20 | 0.01428 + 0.00020 | 0.0048 + 0.00007 | 0.00011 + 0.00004 | 0.00651 + 0.00026 | 0.0000109 + 0.0000190 | 7.75E-17 | 81% | 2.4208938 | 12.61 ± 6.099 | 48% |
| au15.1c.kfs.41o.txt | 1.20 | 20 | 0.11817 + 0.00034 | 0.0401 + 0.00030 | 0.00048 + 0.00003 | 0.05219 + 0.00061 | -0.0000020 + 0.0000171 | 6.41E-16 | 104% | 3.0541324 | 15.892 ± 0.666 | 4% |
| au15.1c.kfs.41p.txt | 1.35 | 20 | 0.04755 + 0.00040 | 0.0163 + 0.00014 | 0.00016 + 0.00004 | 0.02098 + 0.00029 | 0.0000081 + 0.0000115 | 2.58E-16 | 99% | 2.8837692 | 15.009 ± 1.100 | 7% |
| au15.1c.kfs.41q.txt | 1.50 | 20 | 0.03260 + 0.00032 | 0.0108 + 0.00010 | 0.00005 + 0.00004 | 0.01412 + 0.00028 | -0.0000446 + 0.0000131 | 1.77E-16 | 144% | 3.1391523 | 16.33 ± 1.884 | 12% |
| au15.1c.kfs.41r.txt | 1.65 | 20 | 0.04242 + 0.00017 | 0.0144 + 0.00020 | 0.00012 + 0.00003 | 0.01872 + 0.00032 | -0.0000245 + 0.0000161 | 2.30E-16 | 121% | 3.0475964 | 15.86 ± 1.732 | 11% |
| au15.1c.kfs.41s.txt | 1.80 | 20 | 0.01791 + 0.00024 | 0.0059 + 0.00005 | 0.00006 + 0.00003 | 0.00778 + 0.00033 | -0.0000203 + 0.0000170 | 9.72E-17 | 137% | 3.1646983 | 16.46 ± 4.461 | 27% |

Plateau Age = 15.48±0.37 Ma (1s), MSWD = 0.54, probability = 0.94. 100% of the 39Ar, steps 1 through 18



Sanidine phenocrysts of sample JC-09-17. 20-30 mesh size, field of view is ~ 6 mm wide (grid spacing is 1 mm).

**Sample JC-09-17, Total Fusion Analyses of Single Crystals (J=0.0029018+/-.0000135, 0.47%, 1s)**

| | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| au15.1d.kfs.66a.txt | 1.50 | 10 | 2.40173 ± 0.00257 | 0.8078 ± 0.00077 | 0.00980 ± 0.00009 | 0.02316 ± 0.00028 | 0.0000595 ± 0.0000195 | 1.30E-14 | 99% | 2.95389 | 15.398 ± 0.043 | 0.28% |
| au15.1d.kfs.67a.txt | 1.50 | 10 | 3.04975 ± 0.00267 | 1.0079 ± 0.00156 | 0.01220 ± 0.00009 | 0.02292 ± 0.00035 | 0.0002490 ± 0.0000210 | 1.66E-14 | 98% | 2.95486 | 15.403 ± 0.043 | 0.28% |
| au15.1d.kfs.68a.txt | 1.50 | 10 | 3.95572 ± 0.00291 | 1.3265 ± 0.00185 | 0.01620 ± 0.00008 | 0.04032 ± 0.00046 | 0.0001434 ± 0.0000191 | 2.15E-14 | 99% | 2.95270 | 15.392 ± 0.033 | 0.21% |
| au15.1d.kfs.69a.txt | 1.50 | 10 | 1.76510 ± 0.00209 | 0.5872 ± 0.00082 | 0.00718 ± 0.00009 | 0.01374 ± 0.00022 | 0.0001350 ± 0.0000202 | 9.58E-15 | 98% | 2.93980 | 15.325 ± 0.060 | 0.39% |
| au15.1d.kfs.70a.txt | 1.50 | 10 | 0.44043 ± 0.00053 | 0.1374 ± 0.00033 | 0.00164 ± 0.00005 | 0.18334 ± 0.00086 | 0.0001976 ± 0.0000223 | 2.39E-15 | 90% | 2.89148 | 15.074 ± 0.254 | 1.68% |
| au15.1d.kfs.71a.txt | 1.50 | 10 | 2.78837 ± 0.00174 | 0.9335 ± 0.00103 | 0.01138 ± 0.00011 | 0.02456 ± 0.00046 | 0.0001139 ± 0.0000204 | 1.51E-14 | 99% | 2.95320 | 15.394 ± 0.039 | 0.25% |
| au15.1d.kfs.72a.txt | 1.50 | 10 | 2.85789 ± 0.00221 | 0.9589 ± 0.00071 | 0.01173 ± 0.00009 | 0.02458 ± 0.00027 | 0.0001525 ± 0.0000205 | 1.55E-14 | 98% | 2.93568 | 15.303 ± 0.037 | 0.24% |
| au15.1d.kfs.73a.txt | 1.50 | 10 | 2.34522 ± 0.00260 | 0.7692 ± 0.00107 | 0.00932 ± 0.00006 | 0.02441 ± 0.00026 | 0.0002922 ± 0.0000220 | 1.27E-14 | 96% | 2.93916 | 15.321 ± 0.052 | 0.34% |
| au15.1d.kfs.74a.txt | 1.50 | 10 | 2.54723 ± 0.00354 | 0.7352 ± 0.00072 | 0.00919 ± 0.00010 | 0.02408 ± 0.00031 | 0.0012872 ± 0.0000242 | 1.38E-14 | 85% | 2.95012 | 15.378 ± 0.059 | 0.39% |
| au15.1d.kfs.75a.txt | 1.50 | 10 | 2.58984 ± 0.00232 | 0.8733 ± 0.00114 | 0.01059 ± 0.00007 | 0.02231 ± 0.00033 | 0.0000791 ± 0.0000310 | 1.41E-14 | 99% | 2.94097 | 15.331 ± 0.060 | 0.39% |
| au15.1d.kfs.76a.txt | 1.50 | 10 | 2.88723 ± 0.00191 | 0.9612 ± 0.00123 | 0.01171 ± 0.00010 | 0.03266 ± 0.00050 | 0.0002069 ± 0.0000230 | 1.57E-14 | 98% | 2.94286 | 15.341 ± 0.043 | 0.28% |
| au15.1d.kfs.77a.txt | 1.50 | 10 | 2.01440 ± 0.00223 | 0.6779 ± 0.00095 | 0.00810 ± 0.00008 | 0.01869 ± 0.00018 | 0.0000845 ± 0.0000199 | 1.09E-14 | 99% | 2.93687 | 15.310 ± 0.053 | 0.35% |
| au15.1d.kfs.78a.txt | 1.50 | 10 | 1.92896 ± 0.00188 | 0.6450 ± 0.00168 | 0.00785 ± 0.00006 | 0.01813 ± 0.00027 | 0.0000852 ± 0.0000230 | 1.05E-14 | 99% | 2.95375 | 15.397 ± 0.070 | 0.45% |
| au15.1d.kfs.79a.txt | 1.50 | 10 | 1.41055 ± 0.00149 | 0.4760 ± 0.00077 | 0.00594 ± 0.00010 | 0.01324 ± 0.00029 | 0.0001112 ± 0.0000225 | 7.66E-15 | 98% | 2.89643 | 15.100 ± 0.079 | 0.52% |
| au15.1d.kfs.80a.txt | 1.50 | 10 | 1.21948 ± 0.00165 | 0.4156 ± 0.00073 | 0.00499 ± 0.00007 | 0.00801 ± 0.00029 | 0.0000057 ± 0.0000206 | 6.62E-15 | 100% | 2.93185 | 15.284 ± 0.084 | 0.55% |
| | | | | | | | | | | Single Crystal Total Gas Ages: | 15.533 ± 0.072 | |
| | | | | | | | | | | | 15.259 ± 0.063 | |
| | | | | | | | | | | | 15.298 ± 0.057 | |
| | | | | | | | | | | | 15.578 ± 0.038 | |
| | | | | | | | | | | | 15.360 ± 0.170 | |

Biweight Mean = 15.342±0.050 (±0.194 with J-Value error) at the 95% confidence level. MSWD = 3.3, probability = 0.000

**Sample JC-09-17, Incremental Heating Analyses of Single Crystals**

| | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| au15.1d.kfs.65a.txt | 0.40 | 20 | 0.02068 + 0.00021 | 0.0054 + 0.00009 | 0.00006 + 0.00004 | 0.00119 + 0.00039 | 0.0000277 + 0.0000185 | 1.12E-16 | 61% | 2.3194835 | 12.10 ± 5.3 | 44% |
| au15.1d.kfs.65b.txt | 0.45 | 20 | 0.00013 + 0.00017 | 0.0002 + 0.00007 | -0.00001 + 0.00003 | 0.00020 + 0.00013 | 0.0000031 + 0.0000209 | 6.99E-19 | -596% | -4.147883 | -21.8 ± 176.3 | 807% |
| au15.1d.kfss.65a.txt | 0.45 | 20 | 0.01126 + 0.00018 | 0.0034 + 0.00004 | 0.00003 + 0.00003 | -0.00056 + 0.00027 | -0.0000400 + 0.0000160 | 6.11E-17 | 205% | 3.2909483 | 17.15 ± 7.23 | 42% |
| au15.1d.kfs.65c.txt | 0.50 | 20 | 0.00688 + 0.00014 | 0.0022 + 0.00005 | 0.00001 + 0.00003 | -0.00006 + 0.00019 | -0.0000776 + 0.0000164 | 3.74E-17 | 433% | 3.1012743 | 16.16 ± 11.49 | 71% |
| au15.1d.kfs.65d.txt | 0.55 | 20 | 0.06740 + 0.00029 | 0.0218 + 0.00015 | 0.00026 + 0.00004 | 0.00078 + 0.00023 | -0.0000489 + 0.0000174 | 3.66E-16 | 122% | 3.0890772 | 16.099 ± 1.237 | 8% |
| au15.1d.kfs.65e.txt | 0.60 | 20 | 0.20073 + 0.00029 | 0.0648 + 0.00015 | 0.00074 + 0.00004 | 0.00192 + 0.00018 | -0.0000116 + 0.0000146 | 1.09E-15 | 102% | 3.1010986 | 16.162 ± 0.350 | 2% |
| au15.1d.kfs.65f.txt | 0.65 | 20 | 0.84078 + 0.00100 | 0.2793 + 0.00059 | 0.00341 + 0.00004 | 0.00775 + 0.00032 | -0.0000393 + 0.0000176 | 4.56E-15 | 101% | 3.0121876 | 15.700 ± 0.104 | 1% |
| au15.1d.kfs.65g.txt | 0.69 | 20 | 0.44202 + 0.00115 | 0.1496 + 0.00058 | 0.00179 + 0.00005 | 0.00394 + 0.00023 | -0.0000019 + 0.0000146 | 2.40E-15 | 100% | 2.9565234 | 15.412 ± 0.167 | 1% |
| au15.1d.kfs.65h.txt | 0.72 | 20 | 0.09777 + 0.00034 | 0.0330 + 0.00022 | 0.00038 + 0.00004 | 0.00102 + 0.00015 | 0.0000136 + 0.0000203 | 5.31E-16 | 96% | 2.8433088 | 14.824 ± 0.954 | 6% |
| au15.1d.kfs.65i.txt | 0.75 | 20 | 0.34418 + 0.00048 | 0.1171 + 0.00055 | 0.00133 + 0.00005 | 0.00283 + 0.00014 | 0.0000032 + 0.0000183 | 1.87E-15 | 100% | 2.9323112 | 15.286 ± 0.252 | 2% |
| au15.1d.kfs.65j.txt | 0.78 | 20 | 0.39500 + 0.00061 | 0.1331 + 0.00068 | 0.00159 + 0.00006 | 0.00417 + 0.00037 | -0.0000114 + 0.0000196 | 2.14E-15 | 101% | 2.9700118 | 15.482 ± 0.241 | 2% |
| au15.1d.kfs.65k.txt | 0.81 | 20 | 0.44784 + 0.00088 | 0.1513 + 0.00108 | 0.00173 + 0.00003 | 0.00352 + 0.00022 | 0.0000187 + 0.0000196 | 2.43E-15 | 99% | 2.9256358 | 15.251 ± 0.229 | 2% |
| au15.1d.kfs.65l.txt | 0.85 | 20 | 0.14041 + 0.00042 | 0.0472 + 0.00028 | 0.00054 + 0.00003 | 0.00113 + 0.00016 | -0.0000141 + 0.0000196 | 7.62E-16 | 103% | 2.9785871 | 15.526 ± 0.647 | 4% |
| au15.1d.kfs.65m.txt | 0.90 | 20 | 0.22469 + 0.00042 | 0.0756 + 0.00024 | 0.00089 + 0.00005 | 0.00181 + 0.00017 | -0.0000260 + 0.0000193 | 1.22E-15 | 103% | 2.972533 | 15.495 ± 0.396 | 3% |
| au15.1d.kfs.65n.txt | 0.95 | 20 | 0.13987 + 0.00065 | 0.0466 + 0.00012 | 0.00053 + 0.00003 | 0.00112 + 0.00022 | -0.0000215 + 0.0000201 | 7.59E-16 | 105% | 3.0042308 | 15.659 ± 0.670 | 4% |
| au15.1d.kfs.65o.txt | 1.00 | 20 | 0.01198 + 0.00023 | 0.0040 + 0.00005 | 0.00005 + 0.00004 | 0.00002 + 0.00019 | -0.0000012 + 0.0000156 | 6.50E-17 | 103% | 3.0176745 | 15.7 ± 6.055 | 38% |
| au15.1d.kfs.65p.txt | 1.10 | 20 | 0.01634 + 0.00028 | 0.0053 + 0.00008 | 0.00008 + 0.00003 | 0.00054 + 0.00011 | 0.0000193 + 0.0000170 | 8.87E-17 | 65% | 2.0178851 | 10.5 ± 4.977 | 47% |

Age = 15.533±0.072 Ma (1s), MSWD = 0.72, probability = 0.70, 91.4% of the 39Ar, steps 7 through 17. Total gas age = 15.560±0.071 Ma.

| | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| au15.1d.kfs.64a.txt | 0.40 | 20 | 0.00609 + 0.00020 | 0.0011 + 0.00004 | 0.00006 + 0.00003 | -0.00006 + 0.00012 | -0.0000101 + 0.0000164 | 3.31E-17 | 149% | 5.5589735 | 28.87 ± 23.03 | 80% |
| au15.1d.kfs.64b.txt | 0.45 | 20 | 0.00481 + 0.00022 | 0.0013 + 0.00004 | 0.00005 + 0.00004 | -0.00018 + 0.00018 | -0.0000454 + 0.0000206 | 2.61E-17 | 378% | 3.5724866 | 18.61 ± 23.68 | 127% |
| au15.1d.kfs.64c.txt | 0.50 | 20 | 0.00921 + 0.00016 | 0.0028 + 0.00006 | 0.00004 + 0.00003 | -0.00024 + 0.00015 | -0.0000023 + 0.0000187 | 5.00E-17 | 107% | 3.3364463 | 17.38 ± 10.47 | 60% |
| au15.1d.kfs.64d.txt | 0.54 | 20 | 0.03159 + 0.00028 | 0.0102 + 0.00007 | 0.00016 + 0.00004 | 0.00031 + 0.00011 | -0.0000335 + 0.0000199 | 1.71E-16 | 131% | 3.084516 | 16.08 ± 3.00 | 19% |
| au15.1d.kfs.64e.txt | 0.58 | 20 | 0.02993 + 0.00020 | 0.0100 + 0.00007 | 0.00017 + 0.00003 | 0.00044 + 0.00019 | -0.0000158 + 0.0000152 | 1.62E-16 | 116% | 2.995635 | 15.61 ± 2.34 | 15% |
| au15.1d.kfs.64f.txt | 0.62 | 20 | 0.05220 + 0.00039 | 0.0174 + 0.00010 | 0.00017 + 0.00003 | 0.00087 + 0.00017 | 0.0000047 + 0.0000164 | 2.83E-16 | 97% | 2.9315335 | 15.282 ± 1.464 | 10% |
| au15.1d.kfs.64g.txt | 0.66 | 20 | 0.06727 + 0.00036 | 0.0230 + 0.00017 | 0.00028 + 0.00003 | 0.00064 + 0.00011 | 0.0000005 + 0.0000178 | 3.65E-16 | 100% | 2.9183065 | 15.213 ± 1.196 | 8% |
| au15.1d.kfs.64h.txt | 0.69 | 20 | 0.05894 + 0.00061 | 0.0196 + 0.00009 | 0.00023 + 0.00004 | 0.00083 + 0.00011 | -0.0000046 + 0.0000196 | 3.20E-16 | 102% | 3.0158725 | 15.720 ± 1.550 | 10% |
| au15.1d.kfs.64i.txt | 0.72 | 20 | 0.06700 + 0.00031 | 0.0221 + 0.00012 | 0.00025 + 0.00004 | 0.00088 + 0.00018 | 0.0000080 + 0.0000169 | 3.64E-16 | 97% | 2.9344994 | 15.297 ± 1.186 | 8% |
| au15.1d.kfs.64j.txt | 0.75 | 20 | 0.14677 + 0.00052 | 0.0506 + 0.00052 | 0.00053 + 0.00005 | 0.00153 + 0.00016 | -0.0000188 + 0.0000249 | 7.97E-16 | 104% | 2.9005236 | 15.121 ± 0.776 | 5% |
| au15.1d.kfs.64j.txt | 0.75 | 20 | 0.14679 + 0.00050 | 0.0506 + 0.00052 | 0.00057 + 0.00005 | 0.00117 + 0.00016 | 0.0000197 + 0.0000186 | 7.97E-16 | 96% | 2.7864446 | 14.529 ± 0.588 | 4% |
| au15.1d.kfs.64k.txt | 0.78 | 20 | 0.42560 + 0.00043 | 0.1440 + 0.00031 | 0.00179 + 0.00004 | 0.00353 + 0.00024 | -0.0000121 + 0.0000209 | 2.31E-15 | 101% | 2.9576235 | 15.417 ± 0.227 | 1% |
| au15.1d.kfs.64l.txt | 0.81 | 20 | 0.67003 + 0.00081 | 0.2273 + 0.00094 | 0.00273 + 0.00004 | 0.00613 + 0.00017 | 0.0000289 + 0.0000184 | 3.64E-15 | 99% | 2.9125505 | 15.183 ± 0.141 | 1% |
| au15.1d.kfs.64m.txt | 0.85 | 20 | 0.49342 + 0.00104 | 0.1668 + 0.00062 | 0.00197 + 0.00004 | 0.00439 + 0.00024 | -0.0000078 + 0.0000184 | 2.68E-15 | 101% | 2.9605633 | 15.433 ± 0.183 | 1% |
| au15.1d.kfs.64n.txt | 0.90 | 20 | 0.29858 + 0.00030 | 0.1014 + 0.00042 | 0.00128 + 0.00003 | 0.00270 + 0.00011 | 0.0000119 + 0.0000199 | 1.62E-15 | 99% | 2.913037 | 15.186 ± 0.309 | 2% |
| au15.1d.kfs.64o.txt | 0.95 | 20 | 0.88946 + 0.00172 | 0.3031 + 0.00075 | 0.00374 + 0.00007 | 0.00838 + 0.00027 | 0.0000115 + 0.0000170 | 4.83E-15 | 100% | 2.9258136 | 15.252 ± 0.099 | 1% |
| au15.1d.kfs.64p.txt | 1.00 | 20 | 0.37186 + 0.00087 | 0.1259 + 0.00053 | 0.00149 + 0.00006 | 0.00309 + 0.00015 | 0.0000214 + 0.0000154 | 2.02E-15 | 98% | 2.905372 | 15.146 ± 0.203 | 1% |
| au15.1d.kfs.64q.txt | 1.10 | 20 | 0.24062 + 0.00042 | 0.0799 + 0.00026 | 0.00097 + 0.00004 | 0.00183 + 0.00017 | 0.0000144 + 0.0000156 | 1.31E-15 | 98% | 2.9588847 | 15.424 ± 0.307 | 2% |
| au15.1d.kfs.64r.txt | 1.20 | 20 | 0.03918 + 0.00033 | 0.0133 + 0.00010 | 0.00014 + 0.00003 | 0.00022 + 0.00015 | -0.0000024 + 0.0000149 | 2.13E-16 | 102% | 2.9569294 | 15.414 ± 1.737 | 11% |
| au15.1d.kfs.64s.txt | 1.30 | 20 | 0.06086 + 0.00031 | 0.0206 + 0.00010 | 0.00024 + 0.00003 | 0.00060 + 0.00015 | 0.0000091 + 0.0000190 | 3.30E-16 | 96% | 2.8310424 | 14.760 ± 1.428 | 10% |
| au15.1d.kfs.64t.txt | 1.50 | 20 | 0.01944 + 0.00019 | 0.0066 + 0.00006 | 0.00010 + 0.00004 | 0.00050 + 0.00014 | 0.0000017 + 0.0000165 | 1.06E-16 | 98% | 2.8679072 | 14.95 ± 3.846 | 26% |

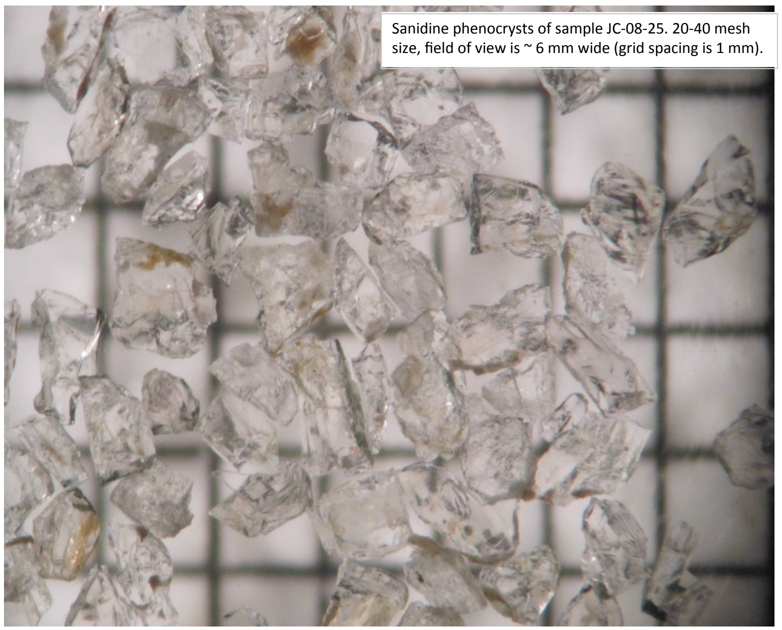
Plateau Age = 15.258±0.063 Ma (1s), MSWD = 0.24, probability = 1.000, 100% of the 39Ar, steps 1 through 19.

| | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| au15.1d.kfs.63a.txt | 0.40 | 20 | 0.01821 + 0.00028 | 0.0037 + 0.00007 | 0.00000 + 0.00004 | 0.00062 + 0.00018 | 0.0000343 + 0.0000154 | 9.89E-17 | 45% | 2.1799296 | 11.38 ± 6.41 | 56% |
| au15.1d.kfs.63b.txt | 0.45 | 20 | 0.02262 + 0.00029 | 0.0067 + 0.00006 | 0.00002 + 0.00003 | 0.00026 + 0.00014 | 0.0000263 + 0.0000178 | 1.23E-16 | 66% | 2.2260066 | 11.62 ± 4.13 | 36% |
| au15.1d.kfs.63c.txt | 0.50 | 20 | 0.05857 + 0.00033 | 0.0187 + 0.00010 | 0.00015 + 0.00003 | 0.00071 + 0.00020 | 0.0000059 + 0.0000159 | 3.18E-16 | 97% | 3.0361236 | 15.825 ± 1.315 | 8% |
| au15.1d.kfs.63d.txt | 0.54 | 20 | 0.06334 + 0.00038 | 0.0204 + 0.00015 | 0.00019 + 0.00004 | 0.00046 + 0.00017 | -0.0000146 + 0.0000146 | 3.44E-16 | 107% | 3.1106224 | 16.211 ± 1.115 | 7% |
| au15.1d.kfs.63e.txt | 0.58 | 20 | 0.06218 + 0.00040 | 0.0201 + 0.00009 | 0.00018 + 0.00003 | 0.00057 + 0.00024 | 0.0000057 + 0.0000187 | 3.37E-16 | 97% | 3.0120162 | 15.700 ± 1.439 | 9% |
| au15.1d.kfs.63f.txt | 0.62 | 20 | 0.13971 + 0.00031 | 0.0449 + 0.00011 | 0.00050 + 0.00003 | 0.00131 + 0.00020 | 0.0000247 + 0.0000158 | 7.58E-16 | 95% | 2.9526598 | 15.392 ± 0.543 | 4% |
| au15.1d.kfs.63g.txt | 0.66 | 20 | 0.32596 + 0.00090 | 0.1071 + 0.00041 | 0.00128 + 0.00004 | 0.00315 + 0.00014 | 0.0000362 + 0.0000166 | 1.77E-15 | 97% | 2.9452846 | 15.353 ± 0.251 | 2% |
| au15.1d.kfs.63h.txt | 0.70 | 20 | 0.19581 + 0.00029 | 0.0648 + 0.00027 | 0.00071 + 0.00003 | 0.00164 + 0.00024 | 0.0000254 + 0.0000184 | 1.06E-15 | 96% | 2.9086284 | 15.163 ± 0.443 | 3% |
| au15.1d.kfs.63i.txt | 0.73 | 20 | 0.42536 + 0.00106 | 0.1429 + 0.00065 | 0.00169 + 0.00004 | 0.00415 + 0.00016 | 0.0000207 + 0.0000179 | 2.31E-15 | 99% | 2.936102 | 15.306 ± 0.209 | 1% |
| au15.1d.kfs.63k.txt | 0.76 | 20 | 1.05117 + 0.00108 | 0.3537 + 0.00088 | 0.00428 + 0.00004 | 0.01157 + 0.00040 | 0.0000643 + 0.0000184 | 5.71E-15 | 98% | 2.9208117 | 15.226 ± 0.090 | 1% |
| au15.1d.kfs.63l.txt | 0.79 | 20 | 0.12405 + 0.00044 | 0.0411 + 0.00018 | 0.00053 + 0.00003 | 0.00117 + 0.00013 | 0.0000064 + 0.0000189 | 6.73E-16 | 99% | 2.9732027 | 15.498 ± 0.713 | 5% |
| au15.1d.kfs.63m.txt | 0.82 | 20 | 0.23813 + 0.00039 | 0.0808 + 0.00047 | 0.00092 + 0.00003 | 0.00187 + 0.00026 | -0.0000194 + 0.0000187 | 1.29E-15 | 102% | 2.9499744 | 15.378 ± 0.369 | 2% |
| au15.1d.kfs.63n.txt | 0.86 | 20 | 0.09866 + 0.00043 | 0.0339 + 0.00023 | 0.00040 + 0.00004 | 0.00047 + 0.00016 | -0.0000029 + 0.0000157 | 5.35E-16 | 101% | 2.9110131 | 15.175 ± 0.724 | 5% |
| au15.1d.kfs.63o.txt | 0.90 | 20 | 0.52011 + 0.00094 | 0.1755 + 0.00066 | 0.00215 + 0.00003 | 0.00504 + 0.00019 | 0.0000285 + 0.0000158 | 2.82E-15 | 98% | 2.9175613 | 15.209 ± 0.153 | 1% |
| au15.1d.kfs.63p.txt | 0.95 | 20 | 0.49209 + 0.00091 | 0.1667 + 0.00057 | 0.00205 + 0.00005 | 0.00446 + 0.00016 | -0.0000379 + 0.0000183 | 2.67E-15 | 102% | 2.9547556 | 15.402 ± 0.180 | 1% |
| au15.1d.kfs.63q.txt | 1.00 | 20 | 0.33542 + 0.00045 | 0.1131 + 0.00044 | 0.00134 + 0.00003 | 0.00316 + 0.00021 | -0.0000074 + 0.0000169 | 1.82E-15 | 101% | 2.966859 | 15.465 ± 0.239 | 2% |
| au15.1d.kfs.63r.txt | 1.10 | 20 | 0.37890 + 0.00099 | 0.1279 + 0.00054 | 0.00150 + 0.00004 | 0.00364 + 0.00022 | -0.0000192 + 0.0000156 | 2.06E-15 | 102% | 2.9643657 | 15.452 ± 0.203 | 1% |
| au15.1d.kfs.63s.txt | 1.20 | 20 | 0.20692 + 0.00027 | 0.0704 + 0.00049 | 0.00082 + 0.00004 | 0.00190 + 0.00019 | -0.0000192 + 0.0000152 | 1.12E-15 | 103% | 2.9397452 | 15.325 ± 0.349 | 2% |
| au15.1d.kfs.63t.txt | 1.50 | 20 | 0.08386 + 0.00038 | 0.0285 + 0.00029 | 0.00040 + 0.00003 | 0.00045 + 0.00015 | -0.0000044 + 0.0000184 | 4.55E-16 | 102% | 2.9444668 | 15.349 ± 1.008 | 7% |

Plateau Age = 15.298±0.057 Ma (1s), MSWD = 0.27, probability = 0.999, 100% of the 39Ar, steps 1 through 19

| | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| au15.1d.kfs.62e.txt | 0.58 | 20 | 0.02267 + 0.00028 | 0.0071 + 0.00007 | 0.00011 + 0.00003 | 0.00027 + 0.00012 | -0.0000036 + 0.0000231 | 1.23E-16 | 105% | 3.2090822 | 16.72 ± 5.05 | 30% |
| au15.1d.kfs.62f.txt | 0.62 | 20 | 0.02022 + 0.00029 | 0.0065 + 0.00007 | 0.00008 + 0.00003 | 0.00063 + 0.00017 | -0.0000053 + 0.0000151 | 1.10E-16 | 108% | 3.1028005 | 16.17 ± 3.57 | 22% |
| au15.1d.kfs.62g.txt | 0.66 | 20 | 0.04085 + 0.00029 | 0.0134 + 0.00009 | 0.00019 + 0.00003 | 0.00058 + 0.00018 | -0.0000140 + 0.0000145 | 2.22E-16 | 110% | 3.0419848 | 15.86 ± 1.67 | 11% |
| au15.1d.kfs.62h.txt | 0.70 | 20 | 0.04487 + 0.00030 | 0.0149 + 0.00006 | 0.00021 + 0.00003 | 0.00048 + 0.00013 | -0.0000112 + 0.0000154 | 2.44E-16 | 107% | 3.0088741 | 15.68 ± 1.60 | 10% |
| au15.1d.kfs.62i.txt | 0.73 | 20 | 0.04858 + 0.00035 | 0.0165 + 0.00010 | 0.00023 + 0.00003 | 0.00068 + 0.00017 | -0.0000054 + 0.0000158 | 2.64E-16 | 103% | 2.9565384 | 15.41 ± 1.49 | 10% |
| au15.1d.kfs.62j.txt | 0.76 | 20 | 0.26936 + 0.00080 | 0.0886 + 0.00033 | 0.00109 + 0.00005 | 0.00213 + 0.00025 | 0.0000022 + 0.0000151 | 1.46E-15 | 100% | 3.035339 | 15.821 ± 0.273 | 2% |
| au15.1d.kfs.62k.txt | 0.79 | 20 | 0.57553 + 0.00082 | 0.1874 + 0.00024 | 0.00224 + 0.00004 | 0.00471 + 0.00015 | 0.0000385 + 0.0000178 | 3.12E-15 | 98% | 3.0122087 | 15.701 ± 0.150 | 1% |
| au15.1d.kfs.62l.txt | 0.82 | 20 | 0.31892 + 0.00098 | 0.1088 + 0.00058 | 0.00129 + 0.00004 | 0.00293 + 0.00022 | -0.0000272 + 0.0000167 | 1.73E-15 | 103% | 2.9339356 | 15.294 ± 0.254 | 2% |
| au15.1d.kfs.62m.txt | 0.86 | 20 | 0.41849 + 0.00108 | 0.1380 + 0.00052 | 0.00164 + 0.00005 | 0.00359 + 0.00026 | -0.0000079 + 0.0000148 | 2.27E-15 | 101% | 3.0337805 | 15.813 ± 0.180 | 1% |
| au15.1d.kfs.62n.txt | 0.90 | 20 | 0.57285 + 0.00127 | 0.1889 + 0.00098 | 0.00234 + 0.00005 | 0.00571 + 0.00020 | 0.0000023 + 0.0000153 | 3.11E-15 | 100% | 3.0322555 | 15.805 ± 0.153 | 1% |
| au15.1d.kfs.62o.txt | 0.95 | 20 | 0.27370 + 0.00051 | 0.0927 + 0.00046 | 0.00113 + 0.00004 | 0.00274 + 0.00014 | 0.0000086 + 0.0000164 | 1.49E-15 | 99% | 2.929294 | 15.270 ± 0.285 | 2% |
| au15.1d.kfs.62p.txt | 1.00 | 20 | 0.95404 + 0.00113 | 0.3135 + 0.00034 | 0.00395 + 0.00006 | 0.00919 + 0.00022 | 0.0000635 + 0.0000147 | 5.18E-15 | 98% | 2.9859505 | 15.564 ± 0.076 | 0% |
| au15.1d.kfs.62q.txt | 1.10 | 20 | 0.70863 + 0.00120 | 0.2262 + 0.00064 | 0.00294 + 0.00008 | 0.00679 + 0.00024 | 0.0001156 + 0.0000168 | 3.85E-15 | 95% | 2.9846515 | 15.558 ± 0.126 | 1% |

| | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| au15.1d.kfs.62r.txt | 1.20 | 20 | 0.17582 + 0.00021 | 0.0591 + 0.00033 | 0.00072 + 0.00005 | 0.00173 + 0.00016 | 0.0000042 + 0.0000159 | 9.54E-16 | 99% | 2.9574587 | 15.416 ± 0.425 | 3% |
| au15.1d.kfs.62s.txt | 1.50 | 20 | 1.43482 + 0.00110 | 0.4740 + 0.00042 | 0.00564 + 0.00006 | 0.01360 + 0.00028 | 0.0000713 + 0.0000178 | 7.79E-15 | 99% | 2.9851759 | 15.560 ± 0.061 | 0% |
| au15.1d.kfs.62t.txt | 1.60 | 20 | 0.52789 + 0.00103 | 0.1759 + 0.00066 | 0.00208 + 0.00005 | 0.00514 + 0.00023 | 0.0000370 + 0.0000179 | 2.87E-15 | 98% | 2.9417607 | 15.335 ± 0.170 | 1% |
| au15.1d.kfs.62u.txt | 1.80 | 20 | 0.09443 + 0.00027 | 0.0313 + 0.00026 | 0.00034 + 0.00004 | 0.00086 + 0.00020 | -0.0000061 + 0.0000171 | 5.13E-16 | 102% | 3.0161437 | 15.721 ± 0.852 | 5% |
| Plateau Age = 15.578±0.038 Ma (1s), MSWD = 0.64, probability = 0.85. 100% of the 39Ar, steps 1 through 17 | | | | | | | | | | | | |
| au15.1d.kfs.61a.txt | 0.40 | 20 | 0.00967 + 0.00018 | 0.0013 + 0.00004 | 0.00001 + 0.00003 | 0.00010 + 0.00016 | 0.0000183 + 0.0000158 | 5.25E-17 | 44% | 3.3711531 | 17.6 ± 19.350 | 110% |
| au15.1d.kfs.61b.txt | 0.45 | 20 | 0.01878 + 0.00028 | 0.0048 + 0.00007 | 0.00014 + 0.00004 | 0.00005 + 0.00024 | 0.0000541 + 0.0000267 | 1.02E-16 | 15% | 0.5759637 | 3.01 ± 8.546 | 284% |
| au15.1d.kfs.61c.txt | 0.50 | 20 | 0.02895 + 0.00028 | 0.0090 + 0.00007 | 0.00009 + 0.00004 | 0.00047 + 0.00016 | -0.0000229 + 0.0000163 | 1.57E-16 | 124% | 3.2103426 | 16.73 ± 2.793 | 17% |
| au15.1d.kfs.61d.txt | 0.54 | 20 | 0.01573 + 0.00014 | 0.0050 + 0.00006 | 0.00005 + 0.00003 | 0.00020 + 0.00014 | -0.0000292 + 0.0000169 | 8.54E-17 | 155% | 3.1416559 | 16.37 ± 5.193 | 32% |
| au15.1d.kfs.61e.txt | 0.58 | 20 | 0.03237 + 0.00033 | 0.0103 + 0.00006 | 0.00010 + 0.00003 | 0.00001 + 0.00017 | -0.0000197 + 0.0000176 | 1.76E-16 | 118% | 3.1453801 | 16.39 ± 2.637 | 16% |
| au15.1d.kfs.61f.txt | 0.62 | 20 | 0.05538 + 0.00032 | 0.0180 + 0.00016 | 0.00019 + 0.00003 | -0.00035 + 0.00024 | 0.0000015 + 0.0000171 | 3.01E-16 | 99% | 3.0450877 | 15.871 ± 1.467 | 9% |
| au15.1d.kfs.61g.txt | 0.66 | 20 | 0.13598 + 0.00018 | 0.0455 + 0.00035 | 0.00053 + 0.00004 | 0.00128 + 0.00015 | 0.0000253 + 0.0000199 | 7.38E-16 | 95% | 2.8283986 | 14.746 ± 0.684 | 5% |
| au15.1d.kfs.61h.txt | 0.70 | 20 | 0.06678 + 0.00036 | 0.0223 + 0.00014 | 0.00025 + 0.00003 | 0.00039 + 0.00019 | -0.0000008 + 0.0000156 | 3.62E-16 | 100% | 2.9921133 | 15.596 ± 1.081 | 7% |
| au15.1d.kfs.61i.txt | 0.73 | 20 | 0.11979 + 0.00036 | 0.0403 + 0.00030 | 0.00041 + 0.00002 | 0.00108 + 0.00016 | 0.0000069 + 0.0000180 | 6.50E-16 | 98% | 2.9224726 | 15.235 ± 0.697 | 5% |
| au15.1d.kfs.61j.txt | 0.76 | 20 | 0.14599 + 0.00025 | 0.0483 + 0.00030 | 0.00057 + 0.00004 | 0.00114 + 0.00019 | 0.0000274 + 0.0000162 | 7.92E-16 | 95% | 2.8559835 | 14.890 ± 0.528 | 4% |
| au15.1d.kfs.61k.txt | 0.79 | 20 | 0.31681 + 0.00089 | 0.0930 + 0.00056 | 0.00114 + 0.00004 | 0.00236 + 0.00016 | 0.0000070 + 0.0000178 | 1.72E-15 | 99% | 3.3863354 | 17.641 ± 0.317 | 2% |
| au15.1d.kfs.61l.txt | 0.82 | 20 | 0.30267 + 0.00074 | 0.0963 + 0.00056 | 0.00116 + 0.00003 | 0.00304 + 0.00013 | 0.0000127 + 0.0000187 | 1.64E-15 | 99% | 3.1053354 | 16.184 ± 0.316 | 2% |
| au15.1d.kfs.61m.txt | 0.86 | 20 | 0.33379 + 0.00056 | 0.1129 + 0.00050 | 0.00138 + 0.00005 | 0.00317 + 0.00019 | 0.0000044 + 0.0000206 | 1.81E-15 | 100% | 2.946169 | 15.358 ± 0.290 | 2% |
| au15.1d.kfs.61n.txt | 0.90 | 20 | 0.17859 + 0.00045 | 0.0608 + 0.00052 | 0.00069 + 0.00003 | 0.00149 + 0.00023 | -0.0000247 + 0.0000187 | 9.69E-16 | 104% | 2.9369656 | 15.310 ± 0.492 | 3% |
| au15.1d.kfs.61o.txt | 0.95 | 20 | 0.75058 + 0.00150 | 0.2498 + 0.00049 | 0.00299 + 0.00004 | 0.00714 + 0.00019 | 0.0000448 + 0.0000192 | 4.07E-15 | 98% | 2.9539045 | 15.398 ± 0.126 | 1% |
| au15.1d.kfs.61p.txt | 1.00 | 20 | 0.27107 + 0.00040 | 0.0916 + 0.00034 | 0.00109 + 0.00005 | 0.00223 + 0.00011 | 0.0000153 + 0.0000172 | 1.47E-15 | 98% | 2.9114327 | 15.178 ± 0.295 | 2% |
| au15.1d.kfs.61q.txt | 1.10 | 20 | 0.49636 + 0.00100 | 0.1690 + 0.00057 | 0.00204 + 0.00003 | 0.00475 + 0.00025 | 0.0000105 + 0.0000175 | 2.69E-15 | 99% | 2.921188 | 15.228 ± 0.170 | 1% |
| au15.1d.kfs.61r.txt | 1.20 | 20 | 0.99618 + 0.00094 | 0.3386 + 0.00074 | 0.00409 + 0.00005 | 0.00951 + 0.00024 | 0.0000359 + 0.0000159 | 5.41E-15 | 99% | 2.9131101 | 15.186 ± 0.081 | 1% |
| au15.1d.kfs.61s.txt | 1.50 | 20 | 1.23645 + 0.00157 | 0.4148 + 0.00059 | 0.00495 + 0.00004 | 0.01189 + 0.00018 | 0.0000451 + 0.0000161 | 6.71E-15 | 99% | 2.9511999 | 15.384 ± 0.067 | 0% |
| au15.1d.kfs.61t.txt | 1.60 | 20 | 0.18063 + 0.00054 | 0.0614 + 0.00065 | 0.00076 + 0.00005 | 0.00171 + 0.00016 | 0.0000104 + 0.0000178 | 9.80E-16 | 98% | 2.8940438 | 15.087 ± 0.477 | 3% |
| au15.1d.kfs.61u.txt | 1.80 | 20 | 0.09220 + 0.00023 | 0.0317 + 0.00024 | 0.00034 + 0.00004 | 0.00062 + 0.00018 | 0.0000044 + 0.0000183 | 5.00E-16 | 99% | 2.8729732 | 14.978 ± 0.899 | 6% |
| Plateau Age = 15.306±0.044 Ma (1s), MSWD = 0.61, probability = 0.77, 79.5% of the 39Ar, steps 13 through 21. Total gas age = 15.36±0.17 Ma. | | | | | | | | | | | | |



Sanidine phenocrysts of sample JC-08-25. 20-40 mesh size, field of view is ~ 6 mm wide (grid spacing is 1 mm).

**Sample JC-08-25, Total Fusion Analyses of Single Crystals (J=0.0029583+/-.0000039, 0.13%, 1s)**

| | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| au15.4j.kfs.03a.txt | 1.50 | 10 | 4.25839 ± 0.00313 | 1.4062 ± 0.00210 | 0.01716 ± 0.00011 | 0.01168 ± 0.00019 | 0.0000486 ± 0.0000195 | 2.31E-14 | 100% | 3.01870 | 16.039 ± 0.035 | 0.22% |
| au15.4j.kfs.04a.txt | 1.50 | 10 | 4.19228 ± 0.00327 | 1.3901 ± 0.00158 | 0.01700 ± 0.00010 | 0.01813 ± 0.00019 | 0.0000805 ± 0.0000190 | 2.28E-14 | 99% | 2.99975 | 15.939 ± 0.031 | 0.19% |
| au15.4j.kfs.05a.txt | 1.50 | 10 | 5.47143 ± 0.00490 | 1.7993 ± 0.00339 | 0.02201 ± 0.00010 | 0.02126 ± 0.00035 | 0.0001082 ± 0.0000210 | 2.97E-14 | 99% | 3.02400 | 16.067 ± 0.038 | 0.24% |
| au15.4j.kfs.06a.txt | 1.50 | 10 | 4.10246 ± 0.00153 | 1.3425 ± 0.00153 | 0.01651 ± 0.00011 | 0.02496 ± 0.00036 | 0.0000369 ± 0.0000245 | 2.23E-14 | 100% | 3.04932 | 16.201 ± 0.035 | 0.21% |
| au15.4j.kfs.07a.txt | 1.50 | 10 | 4.31039 ± 0.00471 | 1.4225 ± 0.00163 | 0.01726 ± 0.00009 | 0.01741 ± 0.00019 | 0.0000991 ± 0.0000192 | 2.34E-14 | 99% | 3.01052 | 15.996 ± 0.033 | 0.21% |
| au15.4j.kfs.08a.txt | 1.50 | 10 | 2.57602 ± 0.00214 | 0.8410 ± 0.00108 | 0.01020 ± 0.00011 | 0.00838 ± 0.00030 | 0.0000855 ± 0.0000198 | 1.40E-14 | 99% | 3.03399 | 16.120 ± 0.045 | 0.28% |
| au15.4j.kfs.108a.txt | 1.50 | 10 | 5.37391 ± 0.00347 | 1.7739 ± 0.00221 | 0.02172 ± 0.00010 | 0.02395 ± 0.00031 | 0.0000433 ± 0.0000203 | 2.92E-14 | 100% | 3.02328 | 16.064 ± 0.029 | 0.18% |
| au15.4j.kfs.73a.txt | 1.70 | 20 | 5.22862 ± 0.00231 | 1.7183 ± 0.00189 | 0.02151 ± 0.00023 | 0.02197 ± 0.00023 | 0.0000968 ± 0.0000176 | 2.84E-14 | 99% | 3.02737 | 16.085 ± 0.025 | 0.16% |
| au15.4j.kfs.74a.txt | 1.60 | 20 | 2.85719 ± 0.00160 | 0.9420 ± 0.00088 | 0.01180 ± 0.00011 | 0.01266 ± 0.00022 | -0.0000171 ± 0.0000169 | 1.55E-14 | 100% | 3.03420 | 16.121 ± 0.033 | 0.21% |
| au15.4j.kfs.75a.txt | 1.60 | 20 | 2.09968 ± 0.00209 | 0.6832 ± 0.00139 | 0.00811 ± 0.00007 | 0.00773 ± 0.00020 | 0.0000493 ± 0.0000143 | 1.14E-14 | 99% | 3.05274 | 16.219 ± 0.049 | 0.31% |

| | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| au15.4j.kfs.76a.txt | 1.60 | 20 | 2.76487 ± 0.00155 | 0.9099 ± 0.00147 | 0.01130 ± 0.00011 | 0.00977 ± 0.00031 | 0.0000096 ± 0.0000151 | 1.50E-14 | 100% | 3.03639 | 16.133 ± 0.038 | 0.24% |
| au15.4j.kfs.77a.txt | 1.60 | 20 | 4.02973 ± 0.00405 | 1.3224 ± 0.00132 | 0.01580 ± 0.00008 | 0.01483 ± 0.00025 | -0.0000094 ± 0.0000125 | 2.19E-14 | 100% | 3.04813 | 16.195 ± 0.027 | 0.17% |
| au15.4j.kfs.78a.txt | 1.60 | 20 | 0.59662 ± 0.00093 | 0.1946 ± 0.00042 | 0.00242 ± 0.00003 | 0.00243 ± 0.00022 | 0.0000138 ± 0.0000170 | 3.24E-15 | 99% | 3.04636 | 16.186 ± 0.144 | 0.89% |
| au15.4j.kfs.79a.txt | 1.60 | 20 | 0.95200 ± 0.00187 | 0.3135 ± 0.00071 | 0.00383 ± 0.00006 | 0.00330 ± 0.00025 | -0.0000107 ± 0.0000180 | 5.17E-15 | 100% | 3.03710 | 16.137 ± 0.102 | 0.64% |
| au15.4j.kfs.80a.txt | 1.60 | 20 | 2.08776 ± 0.00209 | 0.6887 ± 0.00109 | 0.00839 ± 0.00008 | 0.00730 ± 0.00032 | 0.0000278 ± 0.0000146 | 1.13E-14 | 100% | 3.02057 | 16.049 ± 0.045 | 0.28% |
| | | | | | | | | Single Crystal Total Gas Ages: | | | 16.119 ± 0.040 | |
| Biweight Mean = 16.093±0.031 (±0.076 with J-value error) at the 95% confidence level. MSWD = 4.1, probability = 0.000 | | | | | | | | | | | 16.052 ± 0.031 | |
| | | | | | | | | | | | 16.045 ± 0.034 | |
| | | | | | | | | | | | 16.122 ± 0.026 | |
| | | | | | | | | | | | 16.111 ± 0.020 | |
| **Sample JC-08-25, Incremental Heating Analyses of Single Crystals** | | | | | | | | | | | | |
| au15.4j.kfs.107a.txt | 0.50 | 20 | 0.08294 + 0.00028 | 0.0255 + 0.00016 | 0.00033 + 0.00004 | 0.00061 + 0.00017 | 0.0000101 + 0.0000170 | 4.50E-16 | 96% | 3.1368864 | 16.66 ± 1.05 | 6% |
| au15.4j.kfs.107b.txt | 0.54 | 20 | 0.08631 + 0.00023 | 0.0278 + 0.00018 | 0.00028 + 0.00004 | 0.00074 + 0.00020 | -0.0000250 + 0.0000163 | 4.68E-16 | 109% | 3.1103516 | 16.524 ± 0.932 | 6% |
| au15.4j.kfs.107c.txt | 0.58 | 20 | 1.11963 + 0.00144 | 0.3698 + 0.00106 | 0.00441 + 0.00005 | 0.00515 + 0.00019 | -0.0000008 + 0.0000184 | 6.08E-15 | 100% | 3.0284624 | 16.091 ± 0.093 | 1% |
| au15.4j.kfs.107d.txt | 0.62 | 20 | 0.72813 + 0.00124 | 0.2396 + 0.00064 | 0.00291 + 0.00006 | 0.00337 + 0.00021 | 0.0000217 + 0.0000159 | 3.95E-15 | 99% | 3.0128119 | 16.008 ± 0.116 | 1% |
| au15.4j.kfs.107e.txt | 0.66 | 20 | 0.53119 + 0.00088 | 0.1747 + 0.00040 | 0.00205 + 0.00005 | 0.00238 + 0.00015 | 0.0000376 + 0.0000174 | 2.88E-15 | 98% | 2.9781257 | 15.825 ± 0.163 | 1% |
| au15.4j.kfs.107f.txt | 0.70 | 20 | 0.73918 + 0.00108 | 0.2428 + 0.00059 | 0.00289 + 0.00004 | 0.00334 + 0.00027 | 0.0000221 + 0.0000148 | 4.01E-15 | 99% | 3.0185693 | 16.039 ± 0.106 | 1% |
| au15.4j.kfs.107g.txt | 0.73 | 20 | 0.96683 + 0.00149 | 0.3156 + 0.00094 | 0.00378 + 0.00006 | 0.00363 + 0.00014 | -0.0000273 + 0.0000195 | 5.25E-15 | 101% | 3.0641815 | 16.280 ± 0.111 | 1% |
| au15.4j.kfs.107h.txt | 0.76 | 20 | 1.24695 + 0.00174 | 0.4081 + 0.00160 | 0.00496 + 0.00005 | 0.00506 + 0.00026 | -0.0000110 + 0.0000162 | 6.77E-15 | 100% | 3.0566201 | 16.240 ± 0.092 | 1% |
| au15.4j.kfs.107i.txt | 0.80 | 20 | 0.10782 + 0.00031 | 0.0351 + 0.00044 | 0.00053 + 0.00005 | 0.00038 + 0.00019 | 0.0000094 + 0.0000154 | 5.85E-16 | 97% | 2.9919823 | 15.898 ± 0.720 | 5% |
| au15.4j.kfs.107j.txt | 0.85 | 20 | 0.42129 + 0.00062 | 0.1383 + 0.00035 | 0.00174 + 0.00004 | 0.00142 + 0.00024 | 0.0000322 + 0.0000172 | 2.29E-15 | 98% | 2.978027 | 15.824 ± 0.201 | 1% |
| au15.4j.kfs.107k.txt | 0.90 | 20 | 0.41519 + 0.00041 | 0.1364 + 0.00041 | 0.00142 + 0.00005 | 0.00140 + 0.00017 | -0.0000111 + 0.0000186 | 2.25E-15 | 101% | 3.0454998 | 16.181 ± 0.220 | 1% |
| au15.4j.kfs.107l.txt | 0.95 | 20 | 0.62329 + 0.00102 | 0.2037 + 0.00031 | 0.00223 + 0.00007 | 0.00228 + 0.00025 | 0.0000030 + 0.0000201 | 3.38E-15 | 100% | 3.0558043 | 16.236 ± 0.159 | 1% |
| au15.4j.kfs.107m.txt | 1.00 | 20 | 0.30332 + 0.00077 | 0.0981 + 0.00078 | 0.00102 + 0.00006 | 0.00053 + 0.00025 | 0.0000024 + 0.0000183 | 1.65E-15 | 100% | 3.083696 | 16.383 ± 0.324 | 2% |
| au15.4j.kfs.107n.txt | 1.10 | 20 | 0.13904 + 0.00054 | 0.0453 + 0.00025 | 0.00041 + 0.00005 | 0.00059 + 0.00019 | -0.0000112 + 0.0000194 | 7.55E-16 | 102% | 3.0732344 | 16.328 ± 0.683 | 4% |
| au15.4j.kfs.107o.txt | 1.20 | 20 | 0.08587 + 0.00023 | 0.0278 + 0.00028 | 0.00017 + 0.00006 | -0.00076 + 0.00038 | -0.0000139 + 0.0000197 | 4.66E-16 | 105% | 3.0839344 | 16.384 ± 1.122 | 7% |
| au15.4j.kfs.107p.txt | 1.35 | 20 | 0.00338 + 0.00018 | 0.0011 + 0.00004 | 0.00004 + 0.00003 | -0.00008 + 0.00011 | -0.0000165 + 0.0000161 | 1.83E-17 | 244% | 3.0776845 | 16.4 ± 23.2 | 142% |
| au15.4j.kfs.107q.txt | 1.50 | 20 | 0.00534 + 0.00017 | 0.0016 + 0.00005 | 0.00003 + 0.00003 | -0.00018 + 0.00020 | -0.0000337 + 0.0000171 | 2.90E-17 | 287% | 3.2261875 | 17.1 ± 16.4 | 95% |
| au15.4j.kfs.107r.txt | 1.65 | 20 | 0.00227 + 0.00019 | 0.0008 + 0.00004 | -0.00006 + 0.00003 | -0.00020 + 0.00019 | 0.0000204 + 0.0000282 | 1.23E-17 | -166% | -4.985931 | -26.8 ± 59.0 | 220% |
| au15.4j.kfs.107s.txt | 1.80 | 20 | 0.00156 + 0.00018 | 0.0005 + 0.00004 | 0.00000 + 0.00002 | -0.00017 + 0.00020 | -0.0000363 + 0.0000179 | 8.47E-18 | 787% | 3.2880668 | 17.5 ± 60.6 | 347% |
| Plateau Age = 16.119±0.040 Ma (1s), MSWD = 0.74, probability = 0.77, 100% of the 39Ar, steps 1 through 19 | | | | | | | | | | | | |
| au15.4j.kfs.106a.txt | 0.50 | 20 | 0.13332 + 0.00061 | 0.0393 + 0.00107 | 0.00051 + 0.00005 | 0.00130 + 0.00020 | 0.0000050 + 0.0000183 | 7.24E-16 | 99% | 3.3570689 | 17.828 ± 0.885 | 5% |
| au15.4j.kfs.106c.txt | 0.58 | 20 | 0.09723 + 0.00018 | 0.0318 + 0.00024 | 0.00041 + 0.00003 | 0.00070 + 0.00019 | 0.0000528 + 0.0000160 | 5.28E-16 | 84% | 2.5650769 | 13.638 ± 0.800 | 6% |
| au15.4j.kfs.106d.txt | 0.62 | 20 | 0.58159 + 0.00123 | 0.1891 + 0.00041 | 0.00225 + 0.00005 | 0.00189 + 0.00019 | 0.0000174 + 0.0000152 | 3.16E-15 | 99% | 3.0491513 | 16.200 ± 0.135 | 1% |
| au15.4j.kfs.106e.txt | 0.66 | 20 | 0.93250 + 0.00161 | 0.3084 + 0.00051 | 0.00368 + 0.00006 | 0.00356 + 0.00017 | 0.0000238 + 0.0000179 | 5.06E-15 | 99% | 3.0018215 | 15.950 ± 0.099 | 1% |
| au15.4j.kfs.106f.txt | 0.70 | 20 | 1.38836 + 0.00131 | 0.4575 + 0.00042 | 0.00552 + 0.00006 | 0.00676 + 0.00037 | 0.0000287 + 0.0000171 | 7.54E-15 | 99% | 3.0171029 | 16.031 ± 0.063 | 0% |
| au15.4j.kfs.106g.txt | 0.73 | 20 | 0.84282 + 0.00142 | 0.2770 + 0.00100 | 0.00329 + 0.00006 | 0.00285 + 0.00017 | -0.0000198 + 0.0000161 | 4.57E-15 | 101% | 3.0429992 | 16.168 ± 0.112 | 1% |
| au15.4j.kfs.106h.txt | 0.76 | 20 | 0.68283 + 0.00072 | 0.2258 + 0.00068 | 0.00277 + 0.00007 | 0.00337 + 0.00029 | -0.0000034 + 0.0000164 | 3.71E-15 | 100% | 3.0251592 | 16.073 ± 0.125 | 1% |
| au15.4j.kfs.106i.txt | 0.79 | 20 | 0.76803 + 0.00119 | 0.2541 + 0.00063 | 0.00303 + 0.00003 | 0.00423 + 0.00023 | -0.0000257 + 0.0000179 | 4.17E-15 | 101% | 3.0237949 | 16.066 ± 0.120 | 1% |
| au15.4j.kfs.106j.txt | 0.82 | 20 | 1.30961 + 0.00160 | 0.4310 + 0.00089 | 0.00513 + 0.00005 | 0.00503 + 0.00023 | -0.0000376 + 0.0000179 | 7.11E-15 | 101% | 3.039653 | 16.150 ± 0.076 | 0% |
| au15.4j.kfs.106k.txt | 0.85 | 20 | 1.14438 + 0.00105 | 0.3774 + 0.00137 | 0.00479 + 0.00010 | 0.00490 + 0.00024 | 0.0000212 + 0.0000162 | 6.21E-15 | 99% | 3.0164441 | 16.027 ± 0.091 | 1% |
| au15.4j.kfs.106l.txt | 0.90 | 20 | 0.45452 + 0.00092 | 0.1497 + 0.00062 | 0.00186 + 0.00005 | 0.00212 + 0.00017 | 0.0000345 + 0.0000158 | 2.47E-15 | 98% | 2.9689765 | 15.776 ± 0.182 | 1% |
| au15.4j.kfs.106m.txt | 0.95 | 20 | 0.48562 + 0.00097 | 0.1609 + 0.00036 | 0.00193 + 0.00005 | 0.00188 + 0.00022 | 0.0000078 + 0.0000171 | 2.64E-15 | 100% | 3.0046921 | 15.965 ± 0.173 | 1% |
| au15.4j.kfs.106n.txt | 1.00 | 20 | 0.22978 + 0.00030 | 0.0753 + 0.00061 | 0.00101 + 0.00004 | 0.00086 + 0.00017 | 0.0000170 + 0.0000203 | 1.25E-15 | 98% | 2.9850877 | 15.861 ± 0.444 | 3% |
| au15.4j.kfs.106o.txt | 1.10 | 20 | 0.29000 + 0.00082 | 0.0955 + 0.00026 | 0.00121 + 0.00005 | 0.00131 + 0.00020 | 0.0000165 + 0.0000162 | 1.57E-15 | 98% | 2.9858859 | 15.866 ± 0.273 | 2% |
| au15.4j.kfs.106p.txt | 1.20 | 20 | 0.10831 + 0.00019 | 0.0360 + 0.00031 | 0.00046 + 0.00004 | 0.00040 + 0.00016 | 0.0000159 + 0.0000155 | 5.88E-16 | 96% | 2.8800745 | 15.306 ± 0.689 | 5% |
| au15.4j.kfs.106q.txt | 1.35 | 20 | 0.03950 + 0.00023 | 0.0131 + 0.00013 | 0.00012 + 0.00003 | 0.00019 + 0.00013 | -0.0000313 + 0.0000168 | 2.14E-16 | 123% | 3.0260966 | 16.08 ± 2.026 | 13% |
| au15.4j.kfs.106r.txt | 1.50 | 20 | 0.04591 + 0.00027 | 0.0151 + 0.00016 | 0.00015 + 0.00003 | 0.00019 + 0.00014 | -0.0000412 + 0.0000167 | 2.49E-16 | 127% | 3.0497982 | 16.20 ± 1.749 | 11% |
| au15.4j.kfs.106s.txt | 1.65 | 20 | 0.02734 + 0.00019 | 0.0089 + 0.00010 | 0.00001 + 0.00005 | -0.00015 + 0.00018 | -0.0000143 + 0.0000167 | 1.48E-16 | 115% | 3.0843212 | 16.39 ± 2.965 | 18% |
| au15.4j.kfs.106t.txt | 1.80 | 20 | 0.02800 + 0.00024 | 0.0090 + 0.00008 | 0.00007 + 0.00004 | 0.00012 + 0.00017 | -0.0000167 + 0.0000157 | 1.52E-16 | 118% | 3.1206534 | 16.58 ± 2.749 | 17% |
| Plateau Age = 16.054±0.032 Ma (1s), MSWD = 0.60, probability = 0.88. 97.7% of the 39Ar, steps 3 through 19. Total Gas Age = 16.052±0.031 Ma | | | | | | | | | | | | |
| au15.4j.kfs.105a.txt | 0.50 | 20 | 0.07733 + 0.00023 | 0.0228 + 0.00014 | 0.00026 + 0.00003 | 0.00068 + 0.00016 | 0.0000035 + 0.0000152 | 4.20E-16 | 99% | 3.3521393 | 17.802 ± 1.054 | 6% |
| au15.4j.kfs.105b.txt | 0.54 | 20 | 0.02323 + 0.00028 | 0.0074 + 0.00006 | 0.00012 + 0.00003 | 0.00047 + 0.00016 | 0.0000019 + 0.0000157 | 1.26E-16 | 98% | 3.075234 | 16.34 ± 3.352 | 21% |
| au15.4j.kfs.105c.txt | 0.58 | 20 | 0.03779 + 0.00038 | 0.0121 + 0.00010 | 0.00017 + 0.00003 | 0.00021 + 0.00024 | -0.0000386 + 0.0000161 | 2.05E-16 | 130% | 3.1196783 | 16.57 ± 2.103 | 13% |
| au15.4j.kfs.105d.txt | 0.62 | 20 | 0.06713 + 0.00027 | 0.0213 + 0.00012 | 0.00024 + 0.00003 | 0.00043 + 0.00021 | -0.0000102 + 0.0000189 | 3.64E-16 | 105% | 3.1497516 | 16.73 ± 1.394 | 8% |
| au15.4j.kfs.105e.txt | 0.66 | 20 | 0.18036 + 0.00065 | 0.0595 + 0.00023 | 0.00074 + 0.00005 | 0.00057 + 0.00024 | -0.0000185 + 0.0000172 | 9.79E-16 | 103% | 3.0333826 | 16.117 ± 0.462 | 3% |
| au15.4j.kfs.105f.txt | 0.70 | 20 | 0.19966 + 0.00047 | 0.0653 + 0.00050 | 0.00083 + 0.00004 | 0.00106 + 0.00019 | 0.0000261 + 0.0000183 | 1.08E-15 | 96% | 2.9421827 | 15.634 ± 0.459 | 3% |
| au15.4j.kfs.105g.txt | 0.73 | 20 | 0.50418 + 0.00100 | 0.1674 + 0.00040 | 0.00201 + 0.00005 | 0.00238 + 0.00023 | -0.0000116 + 0.0000176 | 2.74E-15 | 101% | 3.0123996 | 16.006 ± 0.173 | 1% |
| au15.4j.kfs.105h.txt | 0.76 | 20 | 2.56708 + 0.00267 | 0.8513 + 0.00133 | 0.01001 + 0.00010 | 0.01057 + 0.00034 | 0.0000285 + 0.0000182 | 1.39E-14 | 100% | 3.0065764 | 15.975 ± 0.045 | 0% |
| au15.4j.kfs.105i.txt | 0.80 | 20 | 1.76786 + 0.00117 | 0.5826 + 0.00160 | 0.00694 + 0.00007 | 0.00719 + 0.00035 | -0.0000049 + 0.0000202 | 9.60E-15 | 100% | 3.0355839 | 16.129 ± 0.071 | 0% |
| au15.4j.kfs.105j.txt | 0.85 | 20 | 0.06462 + 0.00030 | 0.0205 + 0.00014 | 0.00029 + 0.00003 | 0.00025 + 0.00012 | 0.0000150 + 0.0000205 | 3.51E-16 | 93% | 2.9416828 | 15.632 ± 1.578 | 10% |
| au15.4j.kfs.105k.txt | 0.90 | 20 | 1.09562 + 0.00139 | 0.3590 + 0.00081 | 0.00433 + 0.00005 | 0.00431 + 0.00020 | 0.0000145 + 0.0000192 | 5.95E-15 | 100% | 3.0406775 | 16.156 ± 0.094 | 1% |
| au15.4j.kfs.105l.txt | 0.95 | 20 | 0.44166 + 0.00102 | 0.1446 + 0.00051 | 0.00173 + 0.00005 | 0.00135 + 0.00024 | -0.0000277 + 0.0000197 | 2.40E-15 | 102% | 3.054146 | 16.227 ± 0.224 | 1% |
| au15.4j.kfs.105m.txt | 1.00 | 20 | 0.30833 + 0.00047 | 0.1009 + 0.00037 | 0.00123 + 0.00005 | 0.00073 + 0.00015 | -0.0000042 + 0.0000188 | 1.67E-15 | 100% | 3.0549738 | 16.231 ± 0.299 | 2% |
| au15.4j.kfs.105n.txt | 1.10 | 20 | 0.02019 + 0.00033 | 0.0066 + 0.00008 | 0.00011 + 0.00002 | 0.00028 + 0.00013 | -0.0000111 + 0.0000186 | 1.10E-16 | 116% | 3.0750297 | 16.34 ± 4.455 | 27% |
| au15.4j.kfs.105o.txt | 1.20 | 20 | 0.04737 + 0.00044 | 0.0151 + 0.00009 | 0.00021 + 0.00002 | 0.00002 + 0.00021 | -0.0000066 + 0.0000190 | 2.57E-16 | 104% | 3.1290979 | 16.62 ± 1.981 | 12% |
| au15.4j.kfs.105p.txt | 1.35 | 20 | 0.01127 + 0.00023 | 0.0037 + 0.00005 | 0.00001 + 0.00004 | 0.00025 + 0.00017 | 0.0000117 + 0.0000150 | 6.12E-17 | 70% | 2.1416501 | 11.39 ± 6.465 | 57% |
| au15.4j.kfs.105q.txt | 1.50 | 20 | 0.03255 + 0.00030 | 0.0103 + 0.00006 | 0.00007 + 0.00003 | 0.00017 + 0.00019 | -0.0000376 + 0.0000138 | 1.77E-16 | 134% | 3.1569945 | 16.77 ± 2.106 | 13% |
| au15.4j.kfs.105r.txt | 1.65 | 20 | 0.00504 + 0.00016 | 0.0016 + 0.00003 | -0.00005 + 0.00004 | -0.00021 + 0.00019 | -0.0000423 + 0.0000160 | 2.74E-17 | 348% | 3.1118891 | 16.5 ± 15.632 | 95% |
| Plateau Age = 16.020±0.037 Ma (1s), MSWD = 0.82, probability = 0.60, 73.8% of the 39Ar, steps 1 through 10. Total gas age = 16.045±0.034 Ma. | | | | | | | | | | | | |
| au15.4j.kfs.104a.txt | 0.50 | 20 | 0.06152 + 0.00014 | 0.0177 + 0.00013 | 0.00016 + 0.00004 | 0.00026 + 0.00011 | -0.0000015 + 0.0000146 | 3.34E-16 | 101% | 3.4673911 | 18.41 ± 1.298 | 7% |
| au15.4j.kfs.104b.txt | 0.54 | 20 | 0.06744 + 0.00020 | 0.0213 + 0.00022 | 0.00024 + 0.00004 | 0.00044 + 0.00022 | 0.0000009 + 0.0000134 | 3.66E-16 | 100% | 3.1476691 | 16.721 ± 1.005 | 6% |
| au15.4j.kfs.104c.txt | 0.58 | 20 | 0.22470 + 0.00043 | 0.0735 + 0.00025 | 0.00081 + 0.00004 | 0.00084 + 0.00021 | 0.0000128 + 0.0000185 | 1.22E-15 | 98% | 3.0069364 | 15.977 ± 0.400 | 3% |
| au15.4j.kfs.104d.txt | 0.62 | 20 | 0.22235 + 0.00051 | 0.0733 + 0.00057 | 0.00086 + 0.00005 | 0.00076 + 0.00018 | 0.0000092 + 0.0000174 | 1.21E-15 | 99% | 2.9966363 | 15.923 ± 0.394 | 2% |

| | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| au15.4j.kfs.104e.txt | 0.66 | 20 | 0.27100 + 0.00052 | 0.0889 + 0.00053 | 0.00113 + 0.00004 | 0.00095 + 0.00019 | 0.0000115 + 0.0000144 | 1.47E-15 | 99% | 3.009557 | 15.991 ± 0.273 | 2% |
| au15.4j.kfs.104f.txt | 0.70 | 20 | 0.21593 + 0.00084 | 0.0703 + 0.00035 | 0.00087 + 0.00004 | 0.00070 + 0.00016 | 0.0000212 + 0.0000154 | 1.17E-15 | 97% | 2.9848872 | 15.860 ± 0.359 | 2% |
| au15.4j.kfs.104g.txt | 0.73 | 20 | 0.15657 + 0.00063 | 0.0510 + 0.00021 | 0.00061 + 0.00004 | 0.00032 + 0.00018 | 0.0000270 + 0.0000161 | 8.50E-16 | 95% | 2.9127525 | 15.479 ± 0.505 | 3% |
| au15.4j.kfs.104g.txt | 0.73 | 20 | 0.15668 + 0.00064 | 0.0510 + 0.00020 | 0.00063 + 0.00004 | 0.00043 + 0.00018 | -0.0000006 + 0.0000178 | 8.50E-16 | 100% | 3.0721036 | 16.322 ± 0.557 | 3% |
| au15.4j.kfs.104h.txt | 0.76 | 20 | 0.16628 + 0.00041 | 0.0552 + 0.00044 | 0.00073 + 0.00003 | 0.00072 + 0.00020 | -0.0000409 + 0.0000173 | 9.02E-16 | 107% | 3.0138395 | 16.014 ± 0.510 | 3% |
| au15.4j.kfs.104i.txt | 0.80 | 20 | 1.33100 + 0.00115 | 0.4392 + 0.00083 | 0.00525 + 0.00004 | 0.00571 + 0.00021 | -0.0000117 + 0.0000166 | 7.22E-15 | 100% | 3.0317171 | 16.108 ± 0.068 | 0% |
| au15.4j.kfs.104j.txt | 0.85 | 20 | 1.19997 + 0.00154 | 0.3950 + 0.00076 | 0.00476 + 0.00006 | 0.00477 + 0.00021 | -0.0000356 + 0.0000168 | 6.51E-15 | 101% | 3.0391414 | 16.147 ± 0.076 | 0% |
| au15.4j.kfs.104k.txt | 0.90 | 20 | 2.16778 + 0.00240 | 0.7125 + 0.00113 | 0.00853 + 0.00008 | 0.00890 + 0.00021 | 0.0000163 + 0.0000173 | 1.18E-14 | 100% | 3.0368536 | 16.135 ± 0.049 | 0% |
| au15.4j.kfs.104l.txt | 0.95 | 20 | 1.53605 + 0.00154 | 0.5080 + 0.00098 | 0.00609 + 0.00009 | 0.00644 + 0.00026 | -0.0000305 + 0.0000185 | 8.34E-15 | 101% | 3.0250367 | 16.073 ± 0.067 | 0% |
| au15.4j.kfs.104m.txt | 1.00 | 20 | 0.15186 + 0.00036 | 0.0496 + 0.00040 | 0.00067 + 0.00004 | 0.00051 + 0.00018 | -0.0000221 + 0.0000174 | 8.24E-16 | 104% | 3.0637263 | 16.277 ± 0.568 | 3% |
| au15.4j.kfs.104n.txt | 1.10 | 20 | 0.41914 + 0.00054 | 0.1378 + 0.00047 | 0.00174 + 0.00005 | 0.00156 + 0.00013 | -0.0000039 + 0.0000164 | 2.27E-15 | 100% | 3.0424104 | 16.165 ± 0.195 | 1% |
| au15.4j.kfs.104o.txt | 1.20 | 20 | 1.84642 + 0.00125 | 0.6080 + 0.00092 | 0.00758 + 0.00013 | 0.00760 + 0.00028 | -0.0000071 + 0.0000167 | 1.00E-14 | 100% | 3.0377288 | 16.140 ± 0.051 | 0% |
| au15.4j.kfs.104p.txt | 1.35 | 20 | 0.18444 + 0.00046 | 0.0603 + 0.00035 | 0.00080 + 0.00005 | 0.00057 + 0.00019 | -0.0000316 + 0.0000181 | 1.00E-15 | 105% | 3.0581471 | 16.248 ± 0.482 | 3% |
| au15.4j.kfs.104q.txt | 1.50 | 20 | 0.18390 + 0.00039 | 0.0601 + 0.00034 | 0.00067 + 0.00003 | 0.00071 + 0.00020 | -0.0000108 + 0.0000143 | 9.98E-16 | 102% | 3.0610553 | 16.263 ± 0.387 | 2% |
| au15.4j.kfs.104r.txt | 1.65 | 20 | 0.16963 + 0.00050 | 0.0554 + 0.00033 | 0.00072 + 0.00004 | 0.00103 + 0.00015 | -0.0000005 + 0.0000172 | 9.21E-16 | 100% | 3.0621697 | 16.269 ± 0.500 | 3% |
| Plateau Age = 16.122±0.026 Ma (1s), MSWD = 0.43, probability = 0.98, 100% of the 39Ar, steps 1 through 19 | | | | | | | | | | | | |
| au15.4j.kfs.103a.txt | 0.50 | 20 | 0.00005 + 0.00019 | -0.0001 + 0.00006 | -0.00001 + 0.00003 | -0.00009 + 0.00015 | -0.0000264 + 0.0000152 | | | | | |
| au15.4j.kfs.103b.txt | 0.54 | 20 | 0.00897 + 0.00020 | 0.0013 + 0.00005 | 0.00000 + 0.00004 | -0.00007 + 0.00018 | -0.0000063 + 0.0000158 | 4.87E-17 | 121% | 7.1613482 | 37.8 ± 19.8 | 52% |
| au15.4j.kfs.103c.txt | 0.58 | 20 | 0.00539 + 0.00018 | 0.0013 + 0.00004 | 0.00003 + 0.00003 | -0.00002 + 0.00013 | 0.0000106 + 0.0000197 | 2.93E-17 | 42% | 1.7993859 | 9.6 ± 24.6 | 257% |
| au15.4j.kfs.103d.txt | 0.62 | 20 | 0.00247 + 0.00014 | 0.0006 + 0.00003 | 0.00003 + 0.00003 | 0.00002 + 0.00022 | -0.0000027 + 0.0000194 | 1.34E-17 | 133% | 4.0982093 | 21.7 ± 50.3 | 232% |
| au15.4j.kfs.103e.txt | 0.66 | 20 | 0.01277 + 0.00023 | 0.0033 + 0.00005 | 0.00006 + 0.00003 | -0.00037 + 0.00020 | -0.0000184 + 0.0000196 | 6.93E-17 | 143% | 3.8098858 | 20.22 ± 9.20 | 46% |
| au15.4j.kfs.103f.txt | 0.70 | 20 | 0.02033 + 0.00023 | 0.0056 + 0.00007 | 0.00010 + 0.00002 | 0.00024 + 0.00016 | -0.0000040 + 0.0000187 | 1.10E-16 | 106% | 3.6322656 | 19.28 ± 5.24 | 27% |
| au15.4j.kfs.103g.txt | 0.73 | 20 | 0.00380 + 0.00014 | 0.0011 + 0.00004 | 0.00003 + 0.00003 | -0.00023 + 0.00022 | -0.0000165 + 0.0000192 | 2.06E-17 | 228% | 3.5158475 | 18.7 ± 28.02 | 150% |
| au15.4j.kfs.103h.txt | 0.76 | 20 | 0.00943 + 0.00020 | 0.0027 + 0.00003 | 0.00004 + 0.00002 | -0.00012 + 0.00013 | -0.0000083 + 0.0000193 | 5.12E-17 | 126% | 3.4355631 | 18.2 ± 11.04 | 60% |
| au15.4j.kfs.103i.txt | 0.80 | 20 | 0.04177 + 0.00032 | 0.0128 + 0.00011 | 0.00015 + 0.00005 | -0.00027 + 0.00013 | -0.0000150 + 0.0000151 | 2.27E-16 | 111% | 3.2714357 | 17.38 ± 1.86 | 11% |
| au15.4j.kfs.103j.txt | 0.85 | 20 | 0.01830 + 0.00028 | 0.0058 + 0.00004 | 0.00005 + 0.00004 | -0.00027 + 0.00014 | -0.0000124 + 0.0000137 | 9.93E-17 | 120% | 3.1596354 | 16.78 ± 3.73 | 22% |
| au15.4j.kfs.103k.txt | 0.90 | 20 | 0.11302 + 0.00033 | 0.0359 + 0.00033 | 0.00044 + 0.00003 | 0.00023 + 0.00017 | 0.0000011 + 0.0000140 | 6.13E-16 | 100% | 3.1409025 | 16.686 ± 0.635 | 4% |
| au15.4j.kfs.103l.txt | 0.95 | 20 | 0.02937 + 0.00037 | 0.0096 + 0.00006 | 0.00010 + 0.00004 | -0.00030 + 0.00019 | -0.0000011 + 0.0000266 | 1.59E-16 | 101% | 3.0526251 | 16.22 ± 4.350 | 27% |
| au15.4j.kfs.103m.txt | 1.00 | 20 | 0.13281 + 0.00037 | 0.0428 + 0.00029 | 0.00051 + 0.00003 | 0.00017 + 0.00019 | -0.0000231 + 0.0000147 | 7.21E-16 | 105% | 3.1001804 | 16.470 ± 0.552 | 3% |
| au15.4j.kfs.103n.txt | 1.10 | 20 | 0.17804 + 0.00047 | 0.0587 + 0.00024 | 0.00073 + 0.00004 | 0.00121 + 0.00018 | 0.0000301 + 0.0000168 | 9.66E-16 | 95% | 2.8838108 | 15.326 ± 0.457 | 3% |
| au15.4j.kfs.103o.txt | 1.20 | 20 | 0.62276 + 0.00076 | 0.2025 + 0.00072 | 0.00272 + 0.00007 | 0.00289 + 0.00020 | 0.0000503 + 0.0000181 | 3.38E-15 | 98% | 3.0031602 | 15.957 ± 0.153 | 1% |
| au15.4j.kfs.103p.txt | 1.35 | 20 | 1.60306 + 0.00163 | 0.5252 + 0.00052 | 0.00638 + 0.00005 | 0.00619 + 0.00017 | 0.0000385 + 0.0000174 | 8.70E-15 | 99% | 3.0313413 | 16.106 ± 0.057 | 0% |
| au15.4j.kfs.103q.txt | 1.50 | 20 | 3.72911 + 0.00342 | 1.2279 + 0.00201 | 0.01491 + 0.00013 | 0.01450 + 0.00018 | 0.0000767 + 0.0000173 | 2.02E-14 | 99% | 3.0195279 | 16.044 ± 0.038 | 0% |
| au15.4j.kfs.103r.txt | 1.65 | 20 | 4.55293 + 0.00316 | 1.4893 + 0.00191 | 0.01877 + 0.00019 | 0.01824 + 0.00049 | 0.0000145 + 0.0000331 | 2.47E-14 | 100% | 3.0552351 | 16.233 ± 0.042 | 0% |
| au15.4j.kfs.103s.txt | 1.70 | 20 | 1.11584 + 0.00104 | 0.3669 + 0.00046 | 0.00433 + 0.00004 | 0.00394 + 0.00014 | 0.0000158 + 0.0000193 | 6.06E-15 | 100% | 3.0297734 | 16.098 ± 0.086 | 1% |
| au15.4j.kfs.103t.txt | 1.75 | 20 | 2.53434 + 0.00212 | 0.8308 + 0.00112 | 0.00950 + 0.00050 | 0.00886 + 0.00015 | 0.0000333 + 0.0000206 | 1.38E-14 | 100% | 3.0395112 | 16.149 ± 0.047 | 0% |
| au15.4j.kfs.103u.txt | 1.80 | 20 | 0.94543 + 0.00155 | 0.3114 + 0.00059 | 0.00374 + 0.00003 | 0.00360 + 0.00028 | 0.0000225 + 0.0000212 | 5.13E-15 | 99% | 3.0155596 | 16.023 ± 0.114 | 1% |
| au15.4j.kfs.103v.txt | 1.85 | 20 | 0.89784 + 0.00082 | 0.2947 + 0.00077 | 0.00375 + 0.00005 | 0.00348 + 0.00020 | 0.0000363 + 0.0000207 | 4.87E-15 | 99% | 3.0110119 | 15.999 ± 0.119 | 1% |
| au15.4j.kfs.103w.txt | 1.90 | 20 | 1.30884 + 0.00257 | 0.4316 + 0.00125 | 0.00539 + 0.00011 | 0.00513 + 0.00032 | 0.0000335 + 0.0000217 | 7.10E-15 | 99% | 3.0103082 | 15.995 ± 0.097 | 1% |
| au15.4j.kfs.103x.txt | 1.95 | 20 | 0.01461 + 0.00027 | 0.0048 + 0.00007 | 0.00007 + 0.00003 | -0.00024 + 0.00011 | -0.0000155 + 0.0000210 | 7.93E-17 | 131% | 3.0522847 | 16.22 ± 6.920 | 43% |
| Plateau Age = 16.111±0.020 Ma (1s), MSWD = 1.03, probability = 0.42. 100% of the 39Ar, steps 1 through 23 | | | | | | | | | | | | |