

LATE CRETACEOUS COOLING OF THE EAST-CENTRAL
PENINSULA RANGES BATHOLITH (33°N): RELATIONSHIP TO
LA POSTA PLUTON EMPLACEMENT, LARAMIDE SHALLOW
SUBDUCTION, AND FOREARC SEDIMENTATION

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The following applies to all $^{40}\text{Ar}/^{39}\text{Ar}$ data tables included within this document. Nucleogenic production of K-derived ^{39}Ar in hornblende, muscovite, biotite, and some K-feldspar (irradiations 61 (tube 4) and 72 (tube 2)) was monitored with Fish Canyon sanidine (FCT-1: 27.8 ± 0.3 Ma). All other K-feldspars had Fennica biotite (307.3 Ma) as a flux monitor (see Grove and Harrison (1996) for additional information on Fennica biotite). Samples were irradiated at the University of Michigan's Ford reactor (L67 position - H5 for irradiation 72). See McDougall and Harrison (1999) for more information regarding this facility and $^{40}\text{Ar}/^{39}\text{Ar}$ irradiation procedures. Correction factors for reactor-produced K- and Ca-derived argon were determined from by measuring K_2SO_4 and CaF_2 salts included with each irradiation.

IRRADIATION HISTORIES

| Irradiation | Into Reactor (mm/dd/yyyy hr:mm) | Out of Reactor (mm/dd/yyyy hr:mm) | Duration (hr.) | Reactor Site | $^{40}\text{Ar}/^{39}\text{Ar}_k$ | $^{36}\text{Ar}/^{37}\text{Ar}_{Ca}$ | $^{39}\text{Ar}/^{37}\text{Ar}_{Ca}$ |
|-------------|------------------------------------|--------------------------------------|-------------------|--------------|-----------------------------------|--------------------------------------|--------------------------------------|
| 55 | 08/26/1991 23:19 | 08/28/1991 20:19 | 45.0 | L67 | 0.021 | - | - |
| 57 | 12/10/1991 14:41 | 12/12/1991 12:04 | 45.4 | H67 | 0.025 | 0.00024 | 0.00072 |
| 58 | 02/08/1992 21:02 | 02/10/1992 18:27 | 45.4 | L67 | 0.028 | 0.00029 | 0.00070 |
| 60 | 04/01/1992 11:04 | 04/03/1992 08:04 | 45.0 | L67 | 0.024 | 0.00030 | 0.00068 |
| 61 | 07/26/1992 19:57 | 07/28/1992 16:57 | 45.0 | L67 | 0.022 | 0.00030 | 0.00069 |
| 72 | 04/10/1994 12:28 | 04/13/1994 01:27 | 61.0 | H-5 | 0.031 | 0.00028 | 0.00070 |
| 78 | 03/14/1995 01:01 | 03/15/1995 22:01 | 45.0 | L67 | 0.025 | 0.00026 | 0.00079 |

Values of $^{40}\text{Ar}/^{39}\text{Ar}$, $^{37}\text{Ar}/^{39}\text{Ar}$, $^{36}\text{Ar}/^{39}\text{Ar}$, and ^{39}Ar were corrected for blanks, mass discrimination, abundance sensitivity, and radioactive decay (^{39}Ar normalized to 100% delivery to mass spectrometer). Nuclear interferences and atmospheric argon have been accounted for in corrected $^{40}\text{Ar}/^{39}\text{Ar}$ ratios (= $^{40}\text{Ar}^*/^{39}\text{Ar}_k$) as described in McDougall and Harrison (1999). Conventional decay constants and isotopic abundances have been used throughout (Steiger and Jäger, 1977).

IRRADIATION SCHEDULE

| ID | Sample | Hornblende | Muscovite | Biotite | K-feldspar |
|----|--------|-------------|-------------|-------------|-------------|
| 1 | 409-B | - | - | 60 (tube 1) | - |
| 2 | 1110-I | - | 60 (tube 1) | - | 60 (tube 1) |
| 3 | AC | - | - | 57 (tube 1) | 57 (tube 1) |
| 4 | BM | - | - | 61 (tube 1) | 61 (tube 1) |
| 5 | BS | - | - | 78 (tube 1) | - |
| 6 | BW -2 | - | - | - | 72 (tube 1) |
| 7 | CAR | - | - | 78 (tube 1) | - |
| 8 | CM -1 | - | - | - | 72 (tube 1) |
| 9 | CP-175 | 60 (tube 1) | - | 60 (tube 1) | 55 (tube 1) |
| 10 | CP-128 | 60 (tube 1) | - | 60 (tube 1) | 55 (tube 1) |
| 11 | CS | - | - | 61 (tube 1) | 61 (tube 1) |
| 12 | CV | - | - | 60 (tube 1) | 60 (tube 1) |
| 13 | DA | - | - | 78 (tube 1) | - |
| 14 | DSC | - | - | - | 72 (tube 1) |
| 15 | EM | - | - | - | 61 (tube 1) |
| 16 | EQ | 58 (tube 1) | - | 58 (tube 1) | - |
| 17 | EV | 57 (tube 1) | - | 57 (tube 1) | - |
| 18 | FCM | - | - | 60 (tube 1) | 60 (tube 1) |
| 19 | GM | 58 (tube 1) | - | 58 (tube 1) | 58 (tube 1) |
| 20 | KPG | - | - | 78 (tube 1) | - |
| 21 | IPR | - | - | 78 (tube 1) | - |
| 22 | JU | 57 (tube 1) | - | 57 (tube 1) | 57 (tube 1) |
| 23 | JUCH | - | - | 61 (tube 1) | 61 (tube 1) |
| 24 | KCR | - | - | 61 (tube 1) | - |
| 25 | KP | - | - | - | 61 (tube 1) |
| 26 | LOS | - | - | 78 (tube 1) | - |
| 27 | LBV-2B | - | 60 (tube 1) | - | 60 (tube 1) |
| 28 | LP-80 | - | - | 78 (tube 1) | - |
| 29 | LPRR | - | - | 78 (tube 1) | - |
| 30 | MMVT | - | - | - | 57 (tube 1) |
| 31 | MP-17 | 58 (tube 1) | - | 58 (tube 1) | 58 (tube 1) |
| 32 | MP | - | - | 57 (tube 1) | 57 (tube 1) |
| 33 | MSR | - | 78 (tube 1) | 78 (tube 1) | - |
| 34 | MVY | - | - | 78 (tube 1) | - |
| 35 | PV | - | - | 61 (tube 1) | 61 (tube 1) |
| 36 | RR | - | - | 61 (tube 1) | - |
| 37 | RG | - | - | - | 61 (tube 1) |
| 38 | SFH | 60 (tube 1) | - | 60 (tube 1) | 60 (tube 1) |
| 39 | SP | - | - | 60 (tube 1) | 60 (tube 1) |
| 40 | SY | 57 (tube 1) | - | 57 (tube 1) | 57 (tube 1) |
| 41 | TG | - | - | 60 (tube 1) | 60 (tube 1) |
| 42 | TS | - | - | 61 (tube 1) | 61 (tube 1) |
| 43 | WC | - | - | 78 (tube 1) | - |
| 44 | WYN | - | - | 61 (tube 1) | - |
| 45 | YA | - | - | 58 (tube 1) | 58 (tube 1) |

CP-128 Homblende 14.40 mg J=0.007508

| T | Time | $^{40}\text{Ar}/^{39}\text{Ar}$ | $^{37}\text{Ar}/^{39}\text{Ar}$ | $^{36}\text{Ar}/^{39}\text{Ar}$ | ^{39}Ar | % ^{39}Ar | % $^{40}\text{Ar}_*$ | $^{40}\text{Ar}/^{39}\text{Ar}^*$ | Age ^t |
|------|------|---------------------------------|---------------------------------|---------------------------------|-------------------|--------------------|----------------------|-----------------------------------|------------------|
| (°C) | (h) | | | $\times 10^{-4}$ | $\times 10^{-15}$ | | | | (Ma) |
| 800 | 10 | 13.0 | 0.40 | 222 | 4.15 | 2.7 | 49.4 | 6.4 | 84.7 ± 1.0 |
| 950 | 12 | 9.16 | 3.16 | 66.2 | 21.1 | 16.3 | 80.7 | 7.41 | 97.7 ± 0.6 |
| 990 | 11 | 8.63 | 3.89 | 42.7 | 19.0 | 28.6 | 88.1 | 7.62 | 100.4 ± 0.4 |
| 1020 | 11 | 8.24 | 4.60 | 23.2 | 51.6 | 62.0 | 95.1 | 7.86 | 103.4 ± 0.3 |
| 1040 | 12 | 8.33 | 4.48 | 26.9 | 27.1 | 79.5 | 93.8 | 7.84 | 103.2 ± 0.3 |
| 1060 | 12 | 9.35 | 4.07 | 72.8 | 6.69 | 83.9 | 79.7 | 7.47 | 98.4 ± 1.0 |
| 1120 | 12 | 9.56 | 4.80 | 75.9 | 9.80 | 90.2 | 79.7 | 7.65 | 100.8 ± 1.4 |
| 1200 | 10 | 9.34 | 4.79 | 64.3 | 14.2 | 99.4 | 82.9 | 7.77 | 102.3 ± 0.6 |
| 1450 | 10 | 233 | 2.74 | 7710 | 0.92 | 100.0 | 2.5 | 5.79 | 76.8 ± 36.7 |

^tK-Ar age = 101.1 Ma

CP-175 Homblende 14.8 mg J=0.007507

| T | Time | $^{40}\text{Ar}/^{39}\text{Ar}$ | $^{37}\text{Ar}/^{39}\text{Ar}$ | $^{36}\text{Ar}/^{39}\text{Ar}$ | ^{39}Ar | % ^{39}Ar | % $^{40}\text{Ar}_*$ | $^{40}\text{Ar}/^{39}\text{Ar}^*$ | Age ^t |
|------|------|---------------------------------|---------------------------------|---------------------------------|-------------------|--------------------|----------------------|-----------------------------------|------------------|
| (°C) | (h) | | | $\times 10^{-4}$ | $\times 10^{-15}$ | | | | (Ma) |
| 800 | 15 | 16.0 | 1.19 | 315 | 2.23 | 1.3 | 42.3 | 6.8 | 91.7 ± 3.2 |
| 950 | 11 | 8.49 | 3.70 | 34.4 | 24.6 | 15.5 | 90.7 | 7.72 | 103.8 ± 0.3 |
| 990 | 10 | 8.02 | 3.89 | 20.6 | 53.7 | 46.6 | 95.4 | 7.67 | 103.1 ± 0.3 |
| 1010 | 11 | 7.92 | 3.93 | 21.3 | 48.0 | 74.4 | 95.1 | 7.56 | 101.7 ± 0.3 |
| 1030 | 10 | 8.62 | 3.79 | 51.1 | 10.5 | 80.5 | 85.1 | 7.36 | 99.0 ± 0.5 |
| 1070 | 10 | 13.3 | 3.79 | 214 | 2.74 | 82.1 | 54.3 | 7.25 | 97.6 ± 2.3 |
| 1200 | 11 | 8.66 | 4.19 | 47.8 | 29.9 | 99.4 | 86.7 | 7.53 | 101.3 ± 0.4 |
| 1450 | 4 | 154 | 7.39 | 4910 | 1.08 | 100.0 | 6.3 | 9.72 | 129.7 ± 25.8 |

^tK-Ar age = 100.1 Ma

EQ Homblende 19.80 mg J=0.007631

| T | Time | $^{40}\text{Ar}/^{39}\text{Ar}$ | $^{37}\text{Ar}/^{39}\text{Ar}$ | $^{36}\text{Ar}/^{39}\text{Ar}$ | ^{39}Ar | % ^{39}Ar | % $^{40}\text{Ar}_*$ | $^{40}\text{Ar}/^{39}\text{Ar}^*$ | Age ^t |
|------|------|---------------------------------|---------------------------------|---------------------------------|-------------------|--------------------|----------------------|-----------------------------------|------------------|
| (°C) | (h) | | | $\times 10^{-4}$ | $\times 10^{-15}$ | | | | (Ma) |
| 800 | 13 | 12.4 | 0.87 | 212 | 2.57 | 2.0 | 48.4 | 6.16 | 82.9 ± 1.5 |
| 950 | 14 | 13.4 | 5.70 | 229 | 9.24 | 8.9 | 51.4 | 7.01 | 94.0 ± 0.9 |
| 1010 | 10 | 10.8 | 8.14 | 103 | 39.4 | 38.8 | 76.1 | 8.28 | 110.5 ± 0.5 |
| 1025 | 10 | 7.90 | 7.54 | 44.2 | 11.5 | 47.5 | 87.3 | 7.11 | 95.3 ± 0.3 |
| 1050 | 11 | 8.01 | 7.29 | 42.1 | 6.89 | 52.7 | 86.0 | 7.27 | 97.4 ± 0.5 |
| 1130 | 10 | 8.76 | 8.18 | 57.5 | 15.7 | 64.6 | 83.6 | 7.63 | 102.1 ± 0.5 |
| 1250 | 10 | 9.39 | 8.48 | 77.8 | 46.6 | 99.9 | 78.0 | 7.69 | 102.9 ± 0.7 |
| 1450 | 8 | 2648 | 11.7 | 86800 | 0.20 | 100.0 | 2.5 | 83.22 | 887.0 ± 1566.4 |

^tK-Ar age = 104.6 Ma

EV Homblende 15.80 mg J=0.007663

| T | Time | $^{40}\text{Ar}/^{39}\text{Ar}$ | $^{37}\text{Ar}/^{39}\text{Ar}$ | $^{36}\text{Ar}/^{39}\text{Ar}$ | ^{39}Ar | % ^{39}Ar | % $^{40}\text{Ar}_*$ | $^{40}\text{Ar}/^{39}\text{Ar}^*$ | Age [†] |
|------|-------|---------------------------------|---------------------------------|---------------------------------|-------------------|--------------------|----------------------|-----------------------------------|------------------|
| (°C) | (min) | | | $\times 10^{-4}$ | $\times 10^{-15}$ | | | | (Ma) |
| 800 | 36 | 36.5 | 3.65 | 971 | 0.84 | 1.7 | 20.6 | 8.09 | 108.5 ± 9.5 |
| 970 | 11 | 16.6 | 12.4 | 309 | 2.27 | 6.4 | 45.7 | 8.42 | 112.8 ± 2.7 |
| 1000 | 11 | 9.18 | 13.8 | 91.0 | 3.81 | 14.2 | 72.0 | 7.48 | 100.6 ± 1.1 |
| 1030 | 13 | 7.75 | 12.7 | 52.0 | 12.4 | 39.5 | 86.7 | 7.12 | 95.8 ± 0.4 |
| 1050 | 13 | 7.74 | 12.7 | 50.2 | 7.25 | 54.3 | 83.5 | 7.16 | 96.4 ± 0.6 |
| 1100 | 11 | 9.77 | 12.4 | 82.1 | 1.92 | 58.2 | 58.8 | 8.25 | 110.6 ± 2 |
| 1250 | 12 | 8.57 | 14.2 | 75.6 | 18.4 | 95.9 | 77.9 | 7.35 | 98.9 ± 3 |
| 1450 | 6 | 28.7 | 13.5 | 583 | 2.01 | 100.0 | 25.6 | 12.49 | 164.9 ± 3.7 |

[†]K-Ar age = 101.9 Ma

GM Homblende 18.00 mg J=0.007642

| T | Time | $^{40}\text{Ar}/^{39}\text{Ar}$ | $^{37}\text{Ar}/^{39}\text{Ar}$ | $^{36}\text{Ar}/^{39}\text{Ar}$ | ^{39}Ar | % ^{39}Ar | % $^{40}\text{Ar}_*$ | $^{40}\text{Ar}/^{39}\text{Ar}^*$ | Age [†] |
|------|-------|---------------------------------|---------------------------------|---------------------------------|-------------------|--------------------|----------------------|-----------------------------------|------------------|
| (°C) | (min) | | | $\times 10^{-4}$ | $\times 10^{-15}$ | | | | (Ma) |
| 800 | 12 | 13.8 | 0.81 | 274 | 2.42 | 2.2 | 40.6 | 5.72 | 77.2 ± 2.8 |
| 950 | 11 | 11.0 | 3.90 | 174 | 5.06 | 6.9 | 53.5 | 6.11 | 82.3 ± 1.2 |
| 1000 | 10 | 10.9 | 8.44 | 91.3 | 12.7 | 18.6 | 78.7 | 8.77 | 117.0 ± 0.7 |
| 1025 | 11 | 8.06 | 8.74 | 39.9 | 39.3 | 55.0 | 90.8 | 7.50 | 100.5 ± 0.6 |
| 1050 | 13 | 10.3 | 7.41 | 126 | 5.04 | 59.6 | 64.4 | 7.04 | 94.5 ± 1.6 |
| 1130 | 10 | 10.7 | 9.18 | 126 | 12.4 | 71.1 | 67.9 | 7.61 | 102.0 ± 0.6 |
| 1250 | 11 | 13.3 | 9.70 | 212 | 30.9 | 99.7 | 54.9 | 7.68 | 102.9 ± 0.4 |
| 1450 | 10 | 2842 | 10.3 | 98500 | 0.37 | 100.0 | 0.0 | 0.00 | 0.0 ± 0.0 |

[†]K-Ar age = 101.3 Ma

JU Homblende 15.90 mg J=0.007661

| T | Time | $^{40}\text{Ar}/^{39}\text{Ar}$ | $^{37}\text{Ar}/^{39}\text{Ar}$ | $^{36}\text{Ar}/^{39}\text{Ar}$ | ^{39}Ar | % ^{39}Ar | % $^{40}\text{Ar}_*$ | $^{40}\text{Ar}/^{39}\text{Ar}^*$ | Age [†] |
|------|-------|---------------------------------|---------------------------------|---------------------------------|-------------------|--------------------|----------------------|-----------------------------------|------------------|
| (°C) | (min) | | | $\times 10^{-4}$ | $\times 10^{-15}$ | | | | (Ma) |
| 800 | 15 | 9.59 | 0.35 | 105 | 6.81 | 7.1 | 65.4 | 6.48 | 87.4 ± 0.5 |
| 950 | 15 | 8.43 | 2.55 | 61.1 | 6.32 | 13.7 | 75.4 | 6.79 | 91.5 ± 0.8 |
| 990 | 10 | 8.98 | 4.74 | 42.1 | 2.21 | 16.1 | 74.7 | 8.07 | 108.2 ± 0.9 |
| 1020 | 14 | 9.10 | 9.41 | 65.3 | 13.0 | 29.7 | 82.5 | 7.84 | 105.2 ± 0.6 |
| 1040 | 12 | 7.87 | 9.77 | 43.9 | 30.2 | 61.3 | 89.8 | 7.27 | 97.8 ± 0.3 |
| 1050 | 13 | 7.18 | 9.05 | 12.4 | 6.32 | 67.9 | 92.0 | 7.45 | 100.1 ± 0.5 |
| 1090 | 15 | 7.17 | 7.74 | 15.1 | 5.49 | 73.6 | 86.3 | 7.27 | 97.8 ± 0.5 |
| 1130 | 11 | 7.38 | 8.41 | 13.0 | 5.48 | 79.4 | 85.5 | 7.59 | 102.0 ± 0.4 |
| 1200 | 15 | 8.80 | 9.02 | 61.5 | 13.7 | 93.7 | 77.6 | 7.63 | 102.5 ± 0.4 |
| 1300 | 10 | 14.3 | 10.3 | 191 | 4.78 | 98.7 | 49.3 | 9.38 | 125.2 ± 0.7 |
| 1450 | 4 | 42.0 | 4.74 | 506 | 1.28 | 100.0 | 43.7 | 27.40 | 343.8 ± 3.7 |

[†]K-Ar age = 103.9 Ma

M P-17 Homblende 19.90 mg J=0.007627

| T | Time | $^{40}\text{Ar}/^{39}\text{Ar}$ | $^{37}\text{Ar}/^{39}\text{Ar}$ | $^{36}\text{Ar}/^{39}\text{Ar}$ | ^{39}Ar | % ^{39}Ar | % $^{40}\text{Ar}_*$ | $^{40}\text{Ar}/^{39}\text{Ar}^*$ | Age ¹ |
|------|-------|---------------------------------|---------------------------------|---------------------------------|-------------------|--------------------|----------------------|-----------------------------------|------------------|
| (°C) | (min) | | | $\times 10^{-4}$ | $\times 10^{-15}$ | | | | (Ma) |
| 800 | 14 | 13.6 | 2.50 | 238 | 1.16 | 0.9 | 46.9 | 6.75 | 90.6 ± 1.5 |
| 950 | 10 | 11.6 | 5.88 | 121 | 8.82 | 7.6 | 71.3 | 8.39 | 111.9 ± 0.3 |
| 1010 | 10 | 8.88 | 7.71 | 42.4 | 54.8 | 49.5 | 91.0 | 8.17 | 109.1 ± 0.5 |
| 1025 | 10 | 9.03 | 6.73 | 80.8 | 12.1 | 58.7 | 77.1 | 7.11 | 95.3 ± 0.4 |
| 1050 | 10 | 10.6 | 6.60 | 126 | 4.94 | 62.4 | 66.2 | 7.35 | 98.4 ± 1.1 |
| 1130 | 12 | 12.2 | 7.48 | 180 | 11.1 | 70.9 | 58.7 | 7.45 | 99.7 ± 0.5 |
| 1250 | 12 | 10.5 | 7.82 | 104 | 36.9 | 99.1 | 59.0 | 7.95 | 106.2 ± 0.6 |
| 1450 | 10 | 977 | 19.6 | 32000 | 1.18 | 100.0 | 2.5 | 33.28 | 408.1 ± 204.0 |

¹K-Ar age = 108.8 Ma

OF Homblende 18.20 mg J=0.007449

| T | Time | $^{40}\text{Ar}/^{39}\text{Ar}$ | $^{37}\text{Ar}/^{39}\text{Ar}$ | $^{36}\text{Ar}/^{39}\text{Ar}$ | ^{39}Ar | % ^{39}Ar | % $^{40}\text{Ar}_*$ | $^{40}\text{Ar}/^{39}\text{Ar}^*$ | Age ¹ |
|------|-------|---------------------------------|---------------------------------|---------------------------------|-------------------|--------------------|----------------------|-----------------------------------|------------------|
| (°C) | (min) | | | $\times 10^{-4}$ | $\times 10^{-15}$ | | | | (Ma) |
| 850 | 20 | 8.46 | 0.85 | 68.9 | 12.4 | 3.5 | 76.1 | 6.48 | 85.1 ± 0.7 |
| 950 | 15 | 7.72 | 1.90 | 41.5 | 18.4 | 8.8 | 85.6 | 6.65 | 87.2 ± 0.5 |
| 1010 | 10 | 8.33 | 3.10 | 23.8 | 172 | 57.6 | 94.3 | 7.89 | 103.0 ± 0.2 |
| 1040 | 10 | 8.56 | 2.80 | 45.4 | 15.0 | 61.9 | 86.5 | 7.46 | 97.5 ± 0.2 |
| 1130 | 10 | 8.57 | 3.61 | 30.7 | 126 | 97.7 | 92.4 | 7.98 | 104.2 ± 0.6 |
| 1250 | 10 | 14.9 | 5.36 | 239 | 7.56 | 99.9 | 54.8 | 8.28 | 108.0 ± 1.3 |
| 1400 | 10 | 133 | 5.14 | 4216 | 0.51 | 100.0 | 5.9 | 8.75 | 113.9 ± 32.7 |

¹K-Ar age = 101.9 Ma

SFH Homblende 18.80 mg J=0.007434

| T | Time | $^{40}\text{Ar}/^{39}\text{Ar}$ | $^{37}\text{Ar}/^{39}\text{Ar}$ | $^{36}\text{Ar}/^{39}\text{Ar}$ | ^{39}Ar | % ^{39}Ar | % $^{40}\text{Ar}_*$ | $^{40}\text{Ar}/^{39}\text{Ar}^*$ | Age ¹ |
|------|-------|---------------------------------|---------------------------------|---------------------------------|-------------------|--------------------|----------------------|-----------------------------------|------------------|
| (°C) | (min) | | | $\times 10^{-4}$ | $\times 10^{-15}$ | | | | (Ma) |
| 850 | 9 | 21.7 | 3.38 | 515 | 1.22 | 0.7 | 30.1 | 6.76 | 88.5 ± 5.2 |
| 950 | 9 | 23.1 | 6.82 | 570 | 3.46 | 2.6 | 29.1 | 6.87 | 89.9 ± 4.4 |
| 1010 | 11 | 11.9 | 6.64 | 173 | 13.4 | 10.2 | 60.8 | 7.36 | 96.1 ± 0.8 |
| 1040 | 11 | 8.53 | 5.68 | 61.9 | 46.3 | 36.3 | 83.5 | 7.21 | 94.2 ± 0.4 |
| 1110 | 11 | 8.17 | 5.57 | 51.2 | 63.0 | 71.8 | 86.7 | 7.15 | 93.5 ± 0.4 |
| 1160 | 9 | 14.5 | 6.36 | 265 | 14.3 | 79.9 | 48.8 | 7.20 | 94.0 ± 0.9 |
| 1250 | 8 | 18.3 | 5.92 | 389 | 15.5 | 88.7 | 39.0 | 7.31 | 95.4 ± 1.7 |
| 1350 | 8 | 18.9 | 6.17 | 415 | 20.1 | 100.0 | 30.7 | 7.22 | 94.3 ± 0.6 |

¹K-Ar age = 94.1 Ma

SY Homblende 15.70 mg J=0.007658

| T | Time | $^{40}\text{Ar}/^{39}\text{Ar}$ | $^{37}\text{Ar}/^{39}\text{Ar}$ | $^{36}\text{Ar}/^{39}\text{Ar}$ | ^{39}Ar | % ^{39}Ar | % ^{40}Ar * | $^{40}\text{Ar}/^{39}\text{Ar}$ * | Age [†] |
|------|-------|---------------------------------|---------------------------------|---------------------------------|-------------------|--------------------|----------------------|-----------------------------------|------------------|
| (°C) | (min) | | | $\times 10^{-4}$ | $\times 10^{-15}$ | | | | (Ma) |
| 800 | 20 | 7.53 | 0.43 | 21.0 | 20.5 | 9.4 | 90.6 | 6.92 | 93.2 ± 0.3 |
| 950 | 12 | 7.69 | 3.03 | 22.7 | 33.3 | 24.6 | 91.6 | 7.22 | 97.1 ± 0.4 |
| 980 | 10 | 7.58 | 3.16 | 15.7 | 27.4 | 37.1 | 94.7 | 7.33 | 98.5 ± 0.3 |
| 1030 | 10 | 7.41 | 3.05 | 10.5 | 44.9 | 57.6 | 97.2 | 7.30 | 98.1 ± 0.2 |
| 1030 | 10 | 7.30 | 3.00 | 8.98 | 45.4 | 78.3 | 97.4 | 7.23 | 97.2 ± 0.2 |
| 1050 | 10 | 7.41 | 3.74 | 13.0 | 15.4 | 85.4 | 93.7 | 7.28 | 97.9 ± 0.3 |
| 1100 | 10 | 7.53 | 4.47 | 18.5 | 11.7 | 90.8 | 88.5 | 7.29 | 98.0 ± 0.2 |
| 1180 | 11 | 7.79 | 4.91 | 22.2 | 19.1 | 99.5 | 89.0 | 7.47 | 100.4 ± 0.2 |
| 1250 | 10 | 40.2 | 15.8 | 824 | 0.37 | 99.6 | 22.2 | 17.08 | 221.8 ± 9.6 |
| 1450 | 3 | 58.3 | 12.4 | 1410 | 0.78 | 100.0 | 17.0 | 17.75 | 229.9 ± 11.4 |

[†]K-Ar age = 98.2 Ma

| 1029-H Muscovite 7.50 mg J=0.007507 | | | | | | | | | |
|-------------------------------------|-------------|---------------------------------|---------------------------------|--|--|--------------------|----------------------|-------------------------------------|--------------------------|
| Temp (°C) | Time (h) | $^{40}\text{Ar}/^{39}\text{Ar}$ | $^{37}\text{Ar}/^{39}\text{Ar}$ | $^{36}\text{Ar}/^{39}\text{Ar}$ X10 ⁻⁴ | ^{39}Ar X10 ⁻¹⁵ (mol) | % ^{39}Ar | % $^{40}\text{Ar}^*$ | $^{40}\text{Ar}^*/^{39}\text{Ar}_K$ | Age [†] (Ma) |
| 600 | 15 | 13.1 | 45.5 | 306 | 8.44 | 1.49 | 31.01 | 4.07 | 54.3 ± 1.32 |
| 700 | 12 | 7.28 | 41.2 | 41.9 | 17.5 | 4.58 | 82.65 | 6.02 | 79.7 ± 0.3 |
| 780 | 10 | 6.79 | 38.1 | 16.5 | 29.8 | 9.85 | 92.46 | 6.28 | 83.2 ± 0.2 |
| 820 | 11 | 6.61 | 28.8 | 9.98 | 55.1 | 19.57 | 95.17 | 6.29 | 83.3 ± 0.2 |
| 850 | 10 | 6.49 | 21.6 | 8.29 | 25.7 | 24.10 | 95.82 | 6.22 | 82.4 ± 0.2 |
| 880 | 11 | 6.55 | 16.9 | 9.88 | 44.6 | 31.96 | 95.15 | 6.23 | 82.5 ± 0.1 |
| 910 | 11 | 6.51 | 11.8 | 7.75 | 58.1 | 42.22 | 96.08 | 6.26 | 82.8 ± 0.1 |
| 940 | 14 | 6.50 | 13.2 | 9.15 | 49.2 | 50.91 | 95.44 | 6.21 | 82.2 ± 0.1 |
| 1050 | 11 | 6.48 | 10.7 | 7.25 | 117 | 71.58 | 96.30 | 6.24 | 82.6 ± 0.1 |
| 1350 | 20 | 8.41 | 39.6 | 63.4 | 161 | 100 | 77.42 | 6.51 | 86.1 ± 0.3 |

K-Ar age = 83.2 Ma

| 1110-IM Muscovite 10.90 mg J=0.007463 | | | | | | | | | |
|---------------------------------------|-------------|---------------------------------|---------------------------------|--|--|--------------------|----------------------|-------------------------------------|--------------------------|
| Temp (°C) | Time (h) | $^{40}\text{Ar}/^{39}\text{Ar}$ | $^{37}\text{Ar}/^{39}\text{Ar}$ | $^{36}\text{Ar}/^{39}\text{Ar}$ X10 ⁻⁴ | ^{39}Ar X10 ⁻¹⁵ (mol) | % ^{39}Ar | % $^{40}\text{Ar}^*$ | $^{40}\text{Ar}^*/^{39}\text{Ar}_K$ | Age [†] (Ma) |
| 600 | 11 | 10.0 | 101 | 164 | 9.2 | 0.7 | 51.1 | 5.15 | 68.0 ± 0.7 |
| 650 | 10 | 9.08 | 34.5 | 106 | 10.3 | 1.6 | 64.9 | 5.94 | 78.3 ± 0.5 |
| 680 | 11 | 8.57 | 21.4 | 80.3 | 14.3 | 2.8 | 71.5 | 6.18 | 81.3 ± 0.4 |
| 710 | 12 | 8.63 | 15.6 | 81.8 | 19.6 | 4.4 | 71.3 | 6.19 | 81.5 ± 0.6 |
| 740 | 11 | 8.29 | 12.8 | 67.8 | 23.3 | 6.3 | 75.1 | 6.26 | 82.4 ± 0.2 |
| 770 | 11 | 7.39 | 8.47 | 36.1 | 54.4 | 10.7 | 84.9 | 6.29 | 82.8 ± 0.2 |
| 800 | 11 | 7.13 | 5.38 | 29.2 | 69.5 | 16.4 | 87.2 | 6.25 | 82.2 ± 0.2 |
| 830 | 11 | 7.10 | 3.65 | 27.6 | 111 | 25.5 | 87.9 | 6.26 | 82.4 ± 0.2 |
| 850 | 10 | 6.79 | 2.65 | 17.7 | 118 | 35.1 | 91.7 | 6.25 | 82.2 ± 0.2 |
| 870 | 11 | 6.77 | 2.92 | 17.4 | 116 | 44.6 | 91.8 | 6.23 | 82.0 ± 0.2 |
| 890 | 13 | 7.18 | 3.38 | 32.0 | 45.6 | 48.3 | 86.0 | 6.21 | 81.7 ± 0.2 |
| 910 | 11 | 7.32 | 3.45 | 37.1 | 43.3 | 51.9 | 84.1 | 6.20 | 81.6 ± 0.2 |
| 950 | 17 | 7.39 | 3.48 | 38.2 | 87.1 | 59.0 | 84.0 | 6.24 | 82.1 ± 0.2 |
| 1050 | 12 | 8.73 | 3.02 | 82.8 | 192 | 74.7 | 71.3 | 6.26 | 82.3 ± 0.3 |
| 1150 | 10 | 14.2 | 5.81 | 262 | 268 | 96.6 | 44.7 | 6.39 | 84.0 ± 0.6 |
| 1350 | 7 | 60.1 | 39.2 | 1810 | 41.3 | 100.0 | 8.4 | 6.59 | 86.6 ± 5.8 |

[†]K-Ar age = 82.6 Ma

| LBV-2B Muscovite 11.20 mg J=0.007476 | | | | | | | | | |
|--------------------------------------|-------------|---------------------------------|---------------------------------|--|--|--------------------|----------------------|-------------------------------------|--------------------------|
| Temp (°C) | Time (h) | $^{40}\text{Ar}/^{39}\text{Ar}$ | $^{37}\text{Ar}/^{39}\text{Ar}$ | $^{36}\text{Ar}/^{39}\text{Ar}$ X10 ⁻⁴ | ^{39}Ar X10 ⁻¹⁵ (mol) | % ^{39}Ar | % $^{40}\text{Ar}^*$ | $^{40}\text{Ar}^*/^{39}\text{Ar}_K$ | Age [†] (Ma) |
| 600 | 13 | 16.4 | 14.5 | 352 | 7.96 | 0.7 | 36.2 | 5.98 | 78.9 ± 1.3 |
| 650 | 12 | 9.23 | 10.5 | 99.3 | 10.2 | 1.6 | 67.3 | 6.27 | 82.7 ± 0.8 |
| 680 | 10 | 8.88 | 8.41 | 83.8 | 10.8 | 2.5 | 71.2 | 6.38 | 84.1 ± 0.7 |
| 710 | 10 | 8.10 | 5.85 | 50.7 | 17.7 | 4.1 | 80.6 | 6.58 | 86.6 ± 0.4 |
| 740 | 10 | 7.43 | 3.66 | 34.6 | 35.6 | 7.1 | 85.6 | 6.38 | 84.1 ± 0.2 |
| 770 | 10 | 6.99 | 2.57 | 19.8 | 53.2 | 11.8 | 91.0 | 6.38 | 84.1 ± 0.2 |
| 800 | 10 | 6.80 | 1.90 | 14.5 | 76.2 | 18.4 | 92.9 | 6.35 | 83.7 ± 0.1 |
| 830 | 11 | 6.78 | 1.71 | 13.1 | 101 | 27.1 | 93.6 | 6.37 | 83.9 ± 0.1 |
| 850 | 10 | 6.62 | 1.12 | 9.50 | 123 | 37.8 | 95.1 | 6.31 | 83.2 ± 0.1 |
| 870 | 10 | 6.65 | 1.64 | 10.7 | 92.3 | 45.8 | 94.5 | 6.30 | 83.1 ± 0.1 |
| 890 | 10 | 6.77 | 1.22 | 14.1 | 60.0 | 51.0 | 93.0 | 6.33 | 83.4 ± 0.2 |
| 920 | 10 | 6.77 | 1.68 | 15.9 | 72.4 | 57.3 | 92.1 | 6.27 | 82.7 ± 0.1 |

| LBV-2B Muscovite (continued) | | | | | | | | | |
|------------------------------|-------|---------------------------------|---------------------------------|---------------------------------|-------------------------|--------------------|----------------------|-----------------------------------|------------------|
| Temp | Time | $^{40}\text{Ar}/^{39}\text{Ar}$ | $^{37}\text{Ar}/^{39}\text{Ar}$ | $^{36}\text{Ar}/^{39}\text{Ar}$ | ^{39}Ar | % ^{39}Ar | % $^{40}\text{Ar}^*$ | $^{40}\text{Ar}^*/^{39}\text{Ar}$ | Age [†] |
| (°C) | (min) | | | $\times 10^{-4}$ | $\times 10^{-15}$ (mol) | | | | (Ma) |
| 960 | 10 | 7.38 | 1.36 | 18.4 | 64.6 | 62.9 | 91.6 | 6.81 | 89.6 ± 0.3 |
| 1020 | 10 | 7.64 | 2.65 | 43.8 | 103 | 71.8 | 82.3 | 6.32 | 83.2 ± 0.2 |
| 1100 | 11 | 9.11 | 1.62 | 93.5 | 230 | 91.7 | 59.0 | 6.33 | 83.4 ± 0.2 |
| 1350 | 6 | 36.2 | 11.3 | 984 | 95.4 | 100.0 | 13.4 | 7.11 | 93.4 ± 2.5 |

†K-Ar age = 84.6 Ma

| MSR Muscovite J = 0.006712 | | | | | | | | | |
|----------------------------|-------|---------------------------------|---------------------------------|---------------------------------|-------------------------|--------------------|----------------------|-----------------------------------|------------------|
| Power | Time | $^{40}\text{Ar}/^{39}\text{Ar}$ | $^{37}\text{Ar}/^{39}\text{Ar}$ | $^{36}\text{Ar}/^{39}\text{Ar}$ | ^{39}Ar | % ^{39}Ar | % $^{40}\text{Ar}^*$ | $^{40}\text{Ar}^*/^{39}\text{Ar}$ | Age [†] |
| (W) | (min) | | | $\times 10^{-4}$ | $\times 10^{-15}$ (mol) | | | | (Ma) |
| 2 | 1 | 7.364 | 13.37 | 13.41 | 39.35 | - | 94.3 | 6.94 | 82.2 ± 0.4 |
| 2 | 1 | 7.421 | 119.4 | 16.99 | 42.45 | - | 93.0 | 6.90 | 81.7 ± 0.3 |
| 2 | 1 | 8.187 | 6.693 | 37.48 | 44.17 | - | 86.2 | 7.06 | 83.5 ± 0.3 |

†K-Ar age = 82.5 Ma

| WC Muscovite J = 0.006731 | | | | | | | | | |
|---------------------------|-------|---------------------------------|---------------------------------|---------------------------------|-------------------------|--------------------|----------------------|-----------------------------------|------------------|
| Power | Time | $^{40}\text{Ar}/^{39}\text{Ar}$ | $^{37}\text{Ar}/^{39}\text{Ar}$ | $^{36}\text{Ar}/^{39}\text{Ar}$ | ^{39}Ar | % ^{39}Ar | % $^{40}\text{Ar}^*$ | $^{40}\text{Ar}^*/^{39}\text{Ar}$ | Age [†] |
| (W) | (min) | | | $\times 10^{-4}$ | $\times 10^{-15}$ (mol) | | | | (Ma) |
| 2 | 1 | 8.717 | 0.3862 | 35.38 | 54.43 | - | 87.7 | 7.65 | 90.6 ± 0.3 |
| 2 | 15 | 8.345 | 4.035 | 25.65 | 79.16 | - | 90.6 | 7.56 | 89.6 ± 0.4 |
| 2 | 1 | 8.353 | 8.163 | 28.46 | 79.84 | - | 89.6 | 7.49 | 88.7 ± 0.4 |

†K-Ar age = 89.5 Ma

| 409-B Biotite J=0.007565 | | | | | | | | | |
|--------------------------|-------|---------------------------------|---------------------------------|---------------------------------|-------------------|--------------------|----------------------|-------------------------------------|------------|
| Power | Time | $^{40}\text{Ar}/^{39}\text{Ar}$ | $^{37}\text{Ar}/^{39}\text{Ar}$ | $^{36}\text{Ar}/^{39}\text{Ar}$ | ^{39}Ar | $\%^{39}\text{Ar}$ | $\%^{40}\text{Ar}_k$ | $^{40}\text{Ar}^*/^{39}\text{Ar}_k$ | Age* |
| [Watt] | [min] | | $\times 10^{-3}$ | $\times 10^{-4}$ | $\times 10^{-15}$ | | | | (Ma) |
| 4 | 1 | 6.36 | 7.64 | 17.1 | 15.4 | - | 91.59 | 5.84 | 78.0 ± 0.7 |
| 4 | 1 | 6.22 | 36.2 | 10.5 | 15.9 | - | 94.57 | 5.89 | 78.7 ± 0.3 |
| 4 | 1 | 6.23 | 23.1 | 9.92 | 19.7 | - | 94.87 | 5.92 | 79.0 ± 0.3 |

K-Ar age = 78.6 Ma

| AC Biotite J=0.007671 | | | | | | | | | |
|-----------------------|-------|---------------------------------|---------------------------------|---------------------------------|-------------------|--------------------|----------------------|-------------------------------------|------------|
| Power | Time | $^{40}\text{Ar}/^{39}\text{Ar}$ | $^{37}\text{Ar}/^{39}\text{Ar}$ | $^{36}\text{Ar}/^{39}\text{Ar}$ | ^{39}Ar | $\%^{39}\text{Ar}$ | $\%^{40}\text{Ar}_k$ | $^{40}\text{Ar}^*/^{39}\text{Ar}_k$ | Age* |
| [Watt] | [min] | | $\times 10^{-3}$ | $\times 10^{-4}$ | $\times 10^{-15}$ | | | | (Ma) |
| 4 | 1 | 7.24 | 48.5 | 50.4 | 44.1 | - | 79.1 | 5.73 | 77.6 ± 0.3 |
| 4 | 1 | 7.13 | 67.0 | 49.3 | 51.4 | - | 79.2 | 5.66 | 76.7 ± 0.2 |
| 4 | 1 | 6.93 | 41.2 | 43.1 | 49.9 | - | 81.2 | 5.63 | 76.3 ± 0.2 |
| 4 | 1 | 6.62 | 58.3 | 33.9 | 46.4 | - | 84.5 | 5.60 | 75.9 ± 0.2 |

K-Ar age = 76.6 Ma

| BM Biotite J=0.007762 | | | | | | | | | |
|-----------------------|-------|---------------------------------|---------------------------------|---------------------------------|-------------------|--------------------|----------------------|-------------------------------------|------------|
| Power | Time | $^{40}\text{Ar}/^{39}\text{Ar}$ | $^{37}\text{Ar}/^{39}\text{Ar}$ | $^{36}\text{Ar}/^{39}\text{Ar}$ | ^{39}Ar | $\%^{39}\text{Ar}$ | $\%^{40}\text{Ar}_k$ | $^{40}\text{Ar}^*/^{39}\text{Ar}_k$ | Age* |
| [Watt] | [min] | | $\times 10^{-3}$ | $\times 10^{-4}$ | $\times 10^{-15}$ | | | | (Ma) |
| 4 | 1 | 6.833 | 22.5 | 19.2 | 12.6 | - | 91.30 | 6.246 | 85.4 ± 0.5 |
| 4 | 1 | 6.755 | 26.2 | 9.75 | 14.1 | - | 95.34 | 6.447 | 88.1 ± 0.2 |
| 4 | 1 | 6.897 | 41.0 | 20.6 | 20.6 | - | 90.83 | 6.269 | 85.7 ± 0.2 |

K-Ar age = 86.3 Ma

| BS Biotite J=0.006733 | | | | | | | | | |
|-----------------------|-------|---------------------------------|---------------------------------|---------------------------------|-------------------|--------------------|----------------------|-------------------------------------|------------|
| Power | Time | $^{40}\text{Ar}/^{39}\text{Ar}$ | $^{37}\text{Ar}/^{39}\text{Ar}$ | $^{36}\text{Ar}/^{39}\text{Ar}$ | ^{39}Ar | $\%^{39}\text{Ar}$ | $\%^{40}\text{Ar}_k$ | $^{40}\text{Ar}^*/^{39}\text{Ar}_k$ | Age* |
| [Watt] | [min] | | $\times 10^{-3}$ | $\times 10^{-4}$ | $\times 10^{-15}$ | | | | (Ma) |
| 4 | 1 | 7.492 | 5.383 | 3.276 | 54.73 | | 98.5 | 7.371 | 87.4 ± 0.6 |
| 4 | 1 | 7.574 | 11.69 | 7.300 | 93.89 | | 96.8 | 7.334 | 87.0 ± 0.4 |
| 4 | 1 | 7.469 | 12.29 | 3.165 | 79.43 | | 98.4 | 7.352 | 87.2 ± 0.4 |

K-Ar age = 87.1 Ma

| CAR Biotite J=0.006733 | | | | | | | | | |
|------------------------|-------|---------------------------------|---------------------------------|---------------------------------|-------------------|--------------------|----------------------|-------------------------------------|------------|
| Power | Time | $^{40}\text{Ar}/^{39}\text{Ar}$ | $^{37}\text{Ar}/^{39}\text{Ar}$ | $^{36}\text{Ar}/^{39}\text{Ar}$ | ^{39}Ar | $\%^{39}\text{Ar}$ | $\%^{40}\text{Ar}_k$ | $^{40}\text{Ar}^*/^{39}\text{Ar}_k$ | Age* |
| [Watt] | [min] | | $\times 10^{-3}$ | $\times 10^{-4}$ | $\times 10^{-15}$ | | | | (Ma) |
| 1 | 1 | 7.226 | 6.159 | 16.08 | 44.98 | | 93.1 | 6.727 | 79.9 ± 0.4 |
| 2 | 1 | 7.267 | 8.509 | 12.14 | 56.64 | | 94.7 | 6.884 | 81.7 ± 0.3 |

K-Ar age = 80.9 Ma

| CP-175 Biotite J=0.007625 | | | | | | | | | |
|---------------------------|-------|---------------------------------|---------------------------------|---------------------------------|-------------------|--------------------|----------------------|-------------------------------------|------------|
| Power | Time | $^{40}\text{Ar}/^{39}\text{Ar}$ | $^{37}\text{Ar}/^{39}\text{Ar}$ | $^{36}\text{Ar}/^{39}\text{Ar}$ | ^{39}Ar | $\%^{39}\text{Ar}$ | $\%^{40}\text{Ar}_k$ | $^{40}\text{Ar}^*/^{39}\text{Ar}_k$ | Age* |
| [Watt] | [min] | | $\times 10^{-3}$ | $\times 10^{-4}$ | $\times 10^{-15}$ | | | | (Ma) |
| 4 | 1 | 6.48 | 106 | 7.42 | 36.3 | - | 96.3 | 6.24 | 83.9 ± 0.2 |
| 4 | 1 | 6.69 | 53.5 | 9.84 | 11.2 | - | 95.1 | 6.38 | 85.7 ± 0.3 |
| 4 | 1 | 6.78 | 60.4 | 13.3 | 16.4 | - | 93.8 | 6.37 | 85.6 ± 0.3 |
| 4 | 1 | 6.77 | 54.4 | 12.7 | 29.1 | - | 94.0 | 6.37 | 85.6 ± 0.3 |
| 4 | 1 | 8.27 | 58.7 | 66.9 | 18.1 | - | 75.7 | 6.27 | 84.3 ± 0.2 |

K-Ar age = 84.8 Ma

| CP-128 Biotite J=0.007570 | | | | | | | | | |
|---------------------------|--------|---------------------------------|---------------------------------|---------------------------------|-------------------|---------------------|-----------------------|-------------------------------------|------------|
| Power | Time | $^{40}\text{Ar}/^{39}\text{Ar}$ | $^{37}\text{Ar}/^{39}\text{Ar}$ | $^{36}\text{Ar}/^{39}\text{Ar}$ | ^{39}Ar | $\% ^{39}\text{Ar}$ | $\% ^{40}\text{Ar}_k$ | $^{40}\text{Ar}^*/^{39}\text{Ar}_k$ | Age* |
| [W att] | [m in] | | $\times 10^{-3}$ | $\times 10^{-4}$ | $\times 10^{-15}$ | | | | (Ma) |
| 4 | 1 | 7.26 | 281 | 14.3 | 6.26 | - | 94.0 | 6.85 | 91.2 ± 0.8 |
| 4 | 1 | 7.49 | 47.9 | 18.8 | 12.8 | - | 92.3 | 6.91 | 92.0 ± 0.5 |
| 4 | 1 | 7.53 | 24.4 | 21.4 | 14.5 | - | 91.3 | 6.88 | 91.6 ± 0.3 |
| 4 | 1 | 7.43 | 42.7 | 19.8 | 11.7 | - | 91.8 | 6.83 | 90.9 ± 0.7 |
| 4 | 1 | 7.36 | 25.3 | 10.8 | 13.8 | - | 95.2 | 7.02 | 93.4 ± 0.6 |

K-Ar age = 91.9 Ma

| CS Biotite J=0.007766 | | | | | | | | | |
|-----------------------|--------|---------------------------------|---------------------------------|---------------------------------|-------------------|---------------------|-----------------------|-------------------------------------|------------|
| Power | Time | $^{40}\text{Ar}/^{39}\text{Ar}$ | $^{37}\text{Ar}/^{39}\text{Ar}$ | $^{36}\text{Ar}/^{39}\text{Ar}$ | ^{39}Ar | $\% ^{39}\text{Ar}$ | $\% ^{40}\text{Ar}_k$ | $^{40}\text{Ar}^*/^{39}\text{Ar}_k$ | Age* |
| [W att] | [m in] | | $\times 10^{-3}$ | $\times 10^{-4}$ | $\times 10^{-15}$ | | | | (Ma) |
| 3 | 1 | 6.992 | 31.67 | 10.75 | 14.25 | - | 95.1 | 6.66 | 90.9 ± 0.4 |
| 3 | 1 | 6.993 | 12.56 | 7.297 | 9.542 | - | 96.5 | 6.76 | 92.3 ± 0.3 |
| 3 | 1 | 7.003 | 59.05 | 7.581 | 19.57 | - | 96.5 | 6.76 | 92.3 ± 0.2 |

K-Ar age = 91.9 Ma

| CV Biotite J=0.007504 | | | | | | | | | |
|-----------------------|--------|---------------------------------|---------------------------------|---------------------------------|-------------------|---------------------|-----------------------|-------------------------------------|------------|
| Power | Time | $^{40}\text{Ar}/^{39}\text{Ar}$ | $^{37}\text{Ar}/^{39}\text{Ar}$ | $^{36}\text{Ar}/^{39}\text{Ar}$ | ^{39}Ar | $\% ^{39}\text{Ar}$ | $\% ^{40}\text{Ar}_k$ | $^{40}\text{Ar}^*/^{39}\text{Ar}_k$ | Age* |
| [W att] | [m in] | | $\times 10^{-3}$ | $\times 10^{-4}$ | $\times 10^{-15}$ | | | | (Ma) |
| 4 | 1 | 6.32 | 21.7 | 6.89 | 28.3 | - | 96.6 | 6.12 | 81.0 ± 0.2 |
| 4 | 1 | 6.38 | 14.0 | 9.54 | 25.1 | - | 95.3 | 6.09 | 80.6 ± 0.2 |
| 4 | 1 | 6.38 | 13.4 | 15.0 | 24.2 | - | 92.7 | 5.92 | 78.5 ± 0.2 |
| 4 | 1 | 6.35 | 3.57 | 12.6 | 27.7 | - | 93.7 | 5.95 | 78.8 ± 0.2 |
| 4 | 1 | 6.25 | 23.9 | 10.5 | 18.8 | - | 94.8 | 5.94 | 78.7 ± 0.3 |

K-Ar age = 79.6 Ma

| DA Biotite J=0.007766 | | | | | | | | | |
|-----------------------|--------|---------------------------------|---------------------------------|---------------------------------|-------------------|---------------------|-----------------------|-------------------------------------|------------|
| Power | Time | $^{40}\text{Ar}/^{39}\text{Ar}$ | $^{37}\text{Ar}/^{39}\text{Ar}$ | $^{36}\text{Ar}/^{39}\text{Ar}$ | ^{39}Ar | $\% ^{39}\text{Ar}$ | $\% ^{40}\text{Ar}_k$ | $^{40}\text{Ar}^*/^{39}\text{Ar}_k$ | Age* |
| [W att] | [m in] | | $\times 10^{-3}$ | $\times 10^{-4}$ | $\times 10^{-15}$ | | | | (Ma) |
| 3 | 1 | 6.975 | 5.580 | 12.14 | 23.61 | - | 94.5 | 6.59 | 78.2 ± 0.5 |
| 3 | 1 | 6.874 | 15.87 | 7.849 | 56.58 | - | 96.3 | 6.62 | 78.5 ± 0.3 |
| 3 | 1 | 6.776 | 1.680 | 6.480 | 73.78 | - | 96.8 | 6.56 | 77.8 ± 0.3 |

K-Ar age = 78.1 Ma

| EQ Biotite J=0.007628 | | | | | | | | | |
|-----------------------|--------|---------------------------------|---------------------------------|---------------------------------|-------------------|---------------------|-----------------------|-------------------------------------|------------|
| Power | Time | $^{40}\text{Ar}/^{39}\text{Ar}$ | $^{37}\text{Ar}/^{39}\text{Ar}$ | $^{36}\text{Ar}/^{39}\text{Ar}$ | ^{39}Ar | $\% ^{39}\text{Ar}$ | $\% ^{40}\text{Ar}_k$ | $^{40}\text{Ar}^*/^{39}\text{Ar}_k$ | Age* |
| [W att] | [m in] | | $\times 10^{-3}$ | $\times 10^{-4}$ | $\times 10^{-15}$ | | | | (Ma) |
| 4 | 1 | 6.11 | 2.13 | 13.6 | 15.1 | - | 93.0 | 5.70 | 76.8 ± 0.3 |
| 4 | 1 | 6.08 | 3.57 | 8.84 | 31.0 | - | 95.6 | 5.82 | 78.4 ± 0.3 |
| 4 | 1 | 5.99 | 1.21 | 5.69 | 40.4 | - | 96.8 | 5.81 | 78.2 ± 0.1 |
| 4 | 1 | 6.02 | 2.51 | 5.78 | 40.2 | - | 96.9 | 5.84 | 78.6 ± 0.1 |
| 4 | 1 | 6.09 | 9.98 | 10.6 | 33.2 | - | 95.5 | 5.82 | 78.4 ± 0.2 |
| 4 | 1 | 6.14 | 1.57 | 9.79 | 15.4 | - | 94.9 | 5.84 | 78.6 ± 0.5 |

K-Ar age = 78.3 Ma

| EV Biotite J=0.007665 | | | | | | | | | |
|-----------------------|-------|---------------------------------|---------------------------------|---------------------------------|-------------------|--------------------|----------------------|-------------------------------------|------------|
| Power | Time | $^{40}\text{Ar}/^{39}\text{Ar}$ | $^{37}\text{Ar}/^{39}\text{Ar}$ | $^{36}\text{Ar}/^{39}\text{Ar}$ | ^{39}Ar | % ^{39}Ar | % $^{40}\text{Ar}_k$ | $^{40}\text{Ar}^*/^{39}\text{Ar}_k$ | Age* |
| [Watt] | [min] | | $\times 10^{-3}$ | $\times 10^{-4}$ | $\times 10^{-15}$ | | | | (Ma) |
| 4 | 1 | 14.7 | 22.5 | 283 | 11.9 | - | 42.8 | 6.28 | 84.8 ± 0.6 |
| 4 | 1 | 6.69 | 403 | 17.3 | 17.3 | - | 92.4 | 6.19 | 83.6 ± 0.4 |
| 4 | 1 | 6.58 | 347 | 13.2 | 18.3 | - | 94.0 | 6.19 | 83.6 ± 0.3 |
| 4 | 1 | 6.78 | 26.1 | 18.5 | 26.2 | - | 91.6 | 6.21 | 83.9 ± 0.2 |
| 4 | 1 | 6.77 | 298 | 17.0 | 32.4 | - | 92.5 | 6.26 | 84.6 ± 0.2 |
| 4 | 1 | 6.97 | 53.1 | 25.5 | 34.1 | - | 88.9 | 6.20 | 83.8 ± 0.2 |

*K-Ar age = 84.0 Ma

| FCM Biotite J=0.007548 | | | | | | | | | |
|------------------------|-------|---------------------------------|---------------------------------|---------------------------------|-------------------|--------------------|----------------------|-------------------------------------|------------|
| Power | Time | $^{40}\text{Ar}/^{39}\text{Ar}$ | $^{37}\text{Ar}/^{39}\text{Ar}$ | $^{36}\text{Ar}/^{39}\text{Ar}$ | ^{39}Ar | % ^{39}Ar | % $^{40}\text{Ar}_k$ | $^{40}\text{Ar}^*/^{39}\text{Ar}_k$ | Age* |
| [Watt] | [min] | | $\times 10^{-3}$ | $\times 10^{-4}$ | $\times 10^{-15}$ | | | | (Ma) |
| 4 | 1 | 6.07 | 62.9 | 5.02 | 29.3 | - | 97.1 | 5.90 | 78.6 ± 0.2 |
| 4 | 1 | 6.02 | 62.9 | 7.60 | 17.0 | - | 95.8 | 5.78 | 77.0 ± 0.5 |
| 4 | 1 | 6.12 | 74.8 | 5.99 | 18.4 | - | 96.6 | 5.93 | 79.0 ± 0.3 |
| 4 | 1 | 6.06 | 50.9 | 6.03 | 22.0 | - | 96.6 | 5.86 | 78.1 ± 0.3 |
| 4 | 1 | 6.10 | 76.5 | 5.55 | 23.0 | - | 96.9 | 5.92 | 78.9 ± 0.3 |

*K-Ar age = 78.4 Ma

| GM Biotite J=0.007636 | | | | | | | | | |
|-----------------------|-------|---------------------------------|---------------------------------|---------------------------------|-------------------|--------------------|----------------------|-------------------------------------|------------|
| Power | Time | $^{40}\text{Ar}/^{39}\text{Ar}$ | $^{37}\text{Ar}/^{39}\text{Ar}$ | $^{36}\text{Ar}/^{39}\text{Ar}$ | ^{39}Ar | % ^{39}Ar | % $^{40}\text{Ar}_k$ | $^{40}\text{Ar}^*/^{39}\text{Ar}_k$ | Age* |
| [Watt] | [min] | | $\times 10^{-3}$ | $\times 10^{-4}$ | $\times 10^{-15}$ | | | | (Ma) |
| 4 | 1 | 6.71 | 28.7 | 19.4 | 30.9 | - | 91.0 | 6.11 | 82.3 ± 0.2 |
| 4 | 1 | 6.78 | 32.5 | 22.1 | 27.7 | - | 89.9 | 6.11 | 82.2 ± 0.4 |
| 4 | 1 | 6.50 | 136 | 13.3 | 24.0 | - | 93.6 | 6.09 | 82.0 ± 0.2 |
| 4 | 1 | 6.56 | 36.3 | 11.0 | 26.9 | - | 94.6 | 6.21 | 83.6 ± 0.3 |
| 4 | 1 | 7.15 | 82.9 | 31.4 | 24.6 | - | 86.6 | 6.20 | 83.4 ± 0.3 |

*K-Ar age = 82.7 Ma

| KPG Biotite J=0.006700 | | | | | | | | | |
|------------------------|-------|---------------------------------|---------------------------------|---------------------------------|-------------------|--------------------|----------------------|-------------------------------------|------------|
| Power | Time | $^{40}\text{Ar}/^{39}\text{Ar}$ | $^{37}\text{Ar}/^{39}\text{Ar}$ | $^{36}\text{Ar}/^{39}\text{Ar}$ | ^{39}Ar | % ^{39}Ar | % $^{40}\text{Ar}_k$ | $^{40}\text{Ar}^*/^{39}\text{Ar}_k$ | Age* |
| [Watt] | [min] | | $\times 10^{-3}$ | $\times 10^{-4}$ | $\times 10^{-15}$ | | | | (Ma) |
| 2 | 1 | 6.712 | 84.41 | 5.431 | 48.66 | - | 97.3 | 6.534 | 77.3 ± 0.2 |
| 2 | 1 | 6.867 | 1.802 | 6.486 | 33.77 | - | 96.9 | 6.651 | 78.6 ± 0.5 |
| 2 | 1 | 6.865 | 91.61 | 8.735 | 15.17 | - | 96.0 | 6.590 | 77.9 ± 0.7 |

*K-Ar Age = 77.6 Ma

| IPR Biotite J=0.006717 | | | | | | | | | |
|------------------------|-------|---------------------------------|---------------------------------|---------------------------------|-------------------|--------------------|----------------------|-------------------------------------|-------------|
| Power | Time | $^{40}\text{Ar}/^{39}\text{Ar}$ | $^{37}\text{Ar}/^{39}\text{Ar}$ | $^{36}\text{Ar}/^{39}\text{Ar}$ | ^{39}Ar | % ^{39}Ar | % $^{40}\text{Ar}_k$ | $^{40}\text{Ar}^*/^{39}\text{Ar}_k$ | Age* |
| [Watt] | [min] | | $\times 10^{-3}$ | $\times 10^{-4}$ | $\times 10^{-15}$ | | | | (Ma) |
| 2 | 1 | 7.821 | 14.91 | 3.814 | 57.96 | - | 98.3 | 7.69 | 90.8 ± 0.62 |
| 2 | 1 | 7.810 | 14.91 | 3.422 | 18.66 | - | 98.4 | 7.69 | 90.8 ± 0.62 |
| 2 | 1 | 7.958 | 22.25 | 10.93 | 11.03 | - | 95.7 | 7.61 | 90.0 ± 1.05 |

*K-Ar age = 90.7 Ma

| JU Biotite J=0.007662 | | | | | | | | | |
|-----------------------|-------|---------------------------------|---------------------------------|---------------------------------|-------------------|--------------------|----------------------|-------------------------------------|------------|
| Power | Time | $^{40}\text{Ar}/^{39}\text{Ar}$ | $^{37}\text{Ar}/^{39}\text{Ar}$ | $^{36}\text{Ar}/^{39}\text{Ar}$ | ^{39}Ar | $\%^{39}\text{Ar}$ | $\%^{40}\text{Ar}_k$ | $^{40}\text{Ar}^*/^{39}\text{Ar}_k$ | Age* |
| [Watt] | [min] | | $\times 10^{-3}$ | $\times 10^{-4}$ | $\times 10^{-15}$ | | | | (Ma) |
| 4 | 1 | 6.85 | 29.6 | 19.8 | 23.8 | - | 91.1 | 6.24 | 84.2 ± 0.2 |
| 4 | 1 | 6.80 | 43.3 | 15.9 | 34.8 | - | 92.7 | 6.30 | 85.1 ± 0.2 |
| 4 | 1 | 6.69 | 254 | 17.2 | 17.2 | - | 92.2 | 6.17 | 83.3 ± 0.3 |
| 4 | 1 | 6.65 | 67.9 | 12.4 | 25.0 | - | 94.2 | 6.26 | 84.5 ± 0.4 |
| 4 | 1 | 6.56 | 30.8 | 8.83 | 27.3 | - | 95.6 | 6.27 | 84.7 ± 0.2 |
| 4 | 1 | 6.62 | 39.4 | 15.3 | 23.6 | - | 92.8 | 6.15 | 83.1 ± 0.3 |

*K-Ar age = 84.3 Ma

| JUCH Biotite J=0.007760 | | | | | | | | | |
|-------------------------|-------|---------------------------------|---------------------------------|---------------------------------|-------------------|--------------------|----------------------|-------------------------------------|------------|
| Power | Time | $^{40}\text{Ar}/^{39}\text{Ar}$ | $^{37}\text{Ar}/^{39}\text{Ar}$ | $^{36}\text{Ar}/^{39}\text{Ar}$ | ^{39}Ar | $\%^{39}\text{Ar}$ | $\%^{40}\text{Ar}_k$ | $^{40}\text{Ar}^*/^{39}\text{Ar}_k$ | Age* |
| [Watt] | [min] | | $\times 10^{-3}$ | $\times 10^{-4}$ | $\times 10^{-15}$ | | | | (Ma) |
| 3 | 1 | 6.791 | 2.320 | 6.800 | 12.50 | - | 96.6 | 6.57 | 89.7 ± 0.2 |
| 3 | 1 | 6.816 | 21.00 | 6.290 | 18.90 | - | 96.9 | 6.61 | 90.2 ± 0.2 |
| 3 | 1 | 6.880 | 30.60 | 14.60 | 13.40 | - | 93.3 | 6.43 | 87.8 ± 0.4 |

*K-Ar age = 89.4 Ma

| KC Biotite J=0.006695 | | | | | | | | | |
|-----------------------|-------|---------------------------------|---------------------------------|---------------------------------|-------------------|--------------------|----------------------|-------------------------------------|------------|
| Power | Time | $^{40}\text{Ar}/^{39}\text{Ar}$ | $^{37}\text{Ar}/^{39}\text{Ar}$ | $^{36}\text{Ar}/^{39}\text{Ar}$ | ^{39}Ar | $\%^{39}\text{Ar}$ | $\%^{40}\text{Ar}_k$ | $^{40}\text{Ar}^*/^{39}\text{Ar}_k$ | Age* |
| [Watt] | [min] | | $\times 10^{-3}$ | $\times 10^{-4}$ | $\times 10^{-15}$ | | | | (Ma) |
| 3 | 1 | 8.042 | 4.357 | 8.188 | 68.19 | - | 96.7 | 7.78 | 91.6 ± 0.6 |
| 3 | 1 | 8.102 | 27.69 | 8.605 | 11.43 | - | 96.6 | 7.83 | 92.1 ± 1.0 |
| 3 | 1 | 7.998 | 2.470 | 5.547 | 16.26 | - | 97.6 | 7.81 | 91.9 ± 0.7 |

*K-Ar age = 91.7 Ma

| KCR Biotite J=0.007759 | | | | | | | | | |
|------------------------|-------|---------------------------------|---------------------------------|---------------------------------|-------------------|--------------------|----------------------|-------------------------------------|------------|
| Power | Time | $^{40}\text{Ar}/^{39}\text{Ar}$ | $^{37}\text{Ar}/^{39}\text{Ar}$ | $^{36}\text{Ar}/^{39}\text{Ar}$ | ^{39}Ar | $\%^{39}\text{Ar}$ | $\%^{40}\text{Ar}_k$ | $^{40}\text{Ar}^*/^{39}\text{Ar}_k$ | Age* |
| [Watt] | [min] | | $\times 10^{-3}$ | $\times 10^{-4}$ | $\times 10^{-15}$ | | | | (Ma) |
| 3 | 1 | 7.036 | 0.2320 | 16.00 | 9.040 | - | 92.8 | 6.54 | 89.3 ± 0.4 |
| 3 | 1 | 7.023 | 2.150 | 10.00 | 8.660 | - | 95.3 | 6.71 | 91.5 ± 0.4 |
| 3 | 1 | 6.984 | 2.500 | 10.90 | 19.90 | - | 95.0 | 6.64 | 90.6 ± 0.3 |

*K-Ar age = 90.5 Ma

| LOS Biotite J=0.006728 | | | | | | | | | |
|------------------------|-------|---------------------------------|---------------------------------|---------------------------------|-------------------|--------------------|----------------------|-------------------------------------|------------|
| Power | Time | $^{40}\text{Ar}/^{39}\text{Ar}$ | $^{37}\text{Ar}/^{39}\text{Ar}$ | $^{36}\text{Ar}/^{39}\text{Ar}$ | ^{39}Ar | $\%^{39}\text{Ar}$ | $\%^{40}\text{Ar}_k$ | $^{40}\text{Ar}^*/^{39}\text{Ar}_k$ | Age* |
| [Watt] | [min] | | $\times 10^{-3}$ | $\times 10^{-4}$ | $\times 10^{-15}$ | | | | (Ma) |
| 2 | 1 | 7.747 | 53.54 | 4.209 | 57.57 | - | 98.1 | 7.60 | 90.0 ± 0.6 |
| 2 | 1 | 7.924 | 29.62 | 11.80 | 12.24 | - | 95.3 | 7.55 | 89.4 ± 1.0 |
| 2 | 1 | 7.798 | 16.53 | 8.226 | 81.96 | - | 96.6 | 7.53 | 89.2 ± 0.4 |

*K-Ar age = 89.5 Ma

| LP80 Biotite J=0.006732 | | | | | | | | | |
|-------------------------|-------|---------------------------------|---------------------------------|---------------------------------|-------------------|--------------------|----------------------|-------------------------------------|------------|
| Power | Time | $^{40}\text{Ar}/^{39}\text{Ar}$ | $^{37}\text{Ar}/^{39}\text{Ar}$ | $^{36}\text{Ar}/^{39}\text{Ar}$ | ^{39}Ar | $\%^{39}\text{Ar}$ | $\%^{40}\text{Ar}_k$ | $^{40}\text{Ar}^*/^{39}\text{Ar}_k$ | Age* |
| [Watt] | [min] | | $\times 10^{-3}$ | $\times 10^{-4}$ | $\times 10^{-15}$ | | | | (Ma) |
| 3 | 1 | 8.054 | 6.283 | 12.33 | 19.85 | - | 95.2 | 7.67 | 90.8 ± 0.6 |
| 3 | 1 | 8.107 | 6.067 | 16.48 | 28.36 | - | 93.7 | 7.60 | 90.0 ± 0.4 |

*K-Ar age = 90.3 Ma

LPRR Biotite J=0.006721

| Power | Time | $^{40}\text{Ar}/^{39}\text{Ar}$ | $^{37}\text{Ar}/^{39}\text{Ar}$ | $^{36}\text{Ar}/^{39}\text{Ar}$ | ^{39}Ar | $\%^{39}\text{Ar}$ | $\%^{40}\text{Ar}_k$ | $^{40}\text{Ar}^*/^{39}\text{Ar}_k$ | Age* |
|--------|-------|---------------------------------|---------------------------------|---------------------------------|-------------------|--------------------|----------------------|-------------------------------------|------------|
| [Watt] | [min] | | $\times 10^{-3}$ | $\times 10^{-4}$ | $\times 10^{-15}$ | | | | (Ma) |
| 2 | 1 | 8.007 | 5.201 | 5.188 | 29.44 | - | 97.8 | 7.8 | 92.5 ± 0.4 |
| 2 | 1 | 8.162 | 8.016 | 8.325 | 14.74 | - | 96.7 | 7.9 | 93.2 ± 0.8 |
| 2 | 1 | 8.175 | 8.111 | 12.19 | 19.84 | - | 95.3 | 7.8 | 92.1 ± 0.6 |

K-Ar age = 92.5 Ma

MP-17 Biotite 11.00 mg J=0.007570

| Power | Time | $^{40}\text{Ar}/^{39}\text{Ar}$ | $^{37}\text{Ar}/^{39}\text{Ar}$ | $^{36}\text{Ar}/^{39}\text{Ar}$ | ^{39}Ar | $\%^{39}\text{Ar}$ | $\%^{40}\text{Ar}_k$ | $^{40}\text{Ar}^*/^{39}\text{Ar}_k$ | Age* |
|--------|-------|---------------------------------|---------------------------------|---------------------------------|-------------------|--------------------|----------------------|-------------------------------------|------------|
| [Watt] | [min] | | $\times 10^{-3}$ | $\times 10^{-4}$ | $\times 10^{-15}$ | | | | (Ma) |
| 4 | 1 | 7.75 | 16.9 | 35.4 | 10.2 | - | 86.1 | 6.68 | 88.9 ± 0.7 |
| 4 | 1 | 7.65 | 34.0 | 30.2 | 12.9 | - | 87.9 | 6.74 | 89.7 ± 0.5 |
| 4 | 1 | 8.04 | 26.9 | 44.5 | 9.25 | - | 83.2 | 6.70 | 89.3 ± 0.5 |
| 4 | 1 | 7.43 | 10.3 | 17.3 | 9.69 | - | 92.7 | 6.90 | 91.9 ± 0.4 |
| 4 | 1 | 7.57 | 55.8 | 22.0 | 7.53 | - | 91.0 | 6.90 | 91.8 ± 0.5 |

K-Ar age = 90.2 Ma

MP Biotite J=0.007669

| Power | Time | $^{40}\text{Ar}/^{39}\text{Ar}$ | $^{37}\text{Ar}/^{39}\text{Ar}$ | $^{36}\text{Ar}/^{39}\text{Ar}$ | ^{39}Ar | $\%^{39}\text{Ar}$ | $\%^{40}\text{Ar}_k$ | $^{40}\text{Ar}^*/^{39}\text{Ar}_k$ | Age* |
|--------|-------|---------------------------------|---------------------------------|---------------------------------|-------------------|--------------------|----------------------|-------------------------------------|------------|
| [Watt] | [min] | | $\times 10^{-3}$ | $\times 10^{-4}$ | $\times 10^{-15}$ | | | | (Ma) |
| 4 | 1 | 7.57 | 11.6 | 52.9 | 28.0 | - | 79.0 | 5.98 | 80.9 ± 0.4 |
| 4 | 1 | 6.55 | 17.4 | 17.2 | 28.7 | - | 91.8 | 6.01 | 81.3 ± 0.2 |
| 4 | 1 | 6.59 | 21.2 | 20.1 | 3.51 | - | 90.1 | 5.97 | 80.8 ± 0.4 |
| 4 | 1 | 6.55 | 26.6 | 16.9 | 8.02 | - | 91.8 | 6.03 | 81.5 ± 0.3 |
| 4 | 1 | 6.08 | 84.6 | 4.14 | 12.1 | - | 97.6 | 5.94 | 80.4 ± 0.3 |

K-Ar age = 80.7 Ma

MSR Biotite J=0.006710

| Power | Time | $^{40}\text{Ar}/^{39}\text{Ar}$ | $^{37}\text{Ar}/^{39}\text{Ar}$ | $^{36}\text{Ar}/^{39}\text{Ar}$ | ^{39}Ar | $\%^{39}\text{Ar}$ | $\%^{40}\text{Ar}_k$ | $^{40}\text{Ar}^*/^{39}\text{Ar}_k$ | Age* |
|--------|-------|---------------------------------|---------------------------------|---------------------------------|-------------------|--------------------|----------------------|-------------------------------------|------------|
| [Watt] | [min] | | $\times 10^{-3}$ | $\times 10^{-4}$ | $\times 10^{-15}$ | | | | (Ma) |
| 2 | 1 | 6.993 | 8.676 | 9.179 | 74.59 | - | 95.8 | 6.7 | 79.3 ± 0.5 |
| 2 | 1 | 6.888 | 10.21 | 6.467 | 49.21 | - | 96.9 | 6.7 | 79.0 ± 0.4 |
| 2 | 1 | 6.920 | 10.94 | 9.137 | 23.82 | - | 95.8 | 6.6 | 78.5 ± 0.5 |

K-Ar age = 79.1 Ma

MVY Biotite J=0.006727

| Power | Time | $^{40}\text{Ar}/^{39}\text{Ar}$ | $^{37}\text{Ar}/^{39}\text{Ar}$ | $^{36}\text{Ar}/^{39}\text{Ar}$ | ^{39}Ar | $\%^{39}\text{Ar}$ | $\%^{40}\text{Ar}_k$ | $^{40}\text{Ar}^*/^{39}\text{Ar}_k$ | Age* |
|--------|-------|---------------------------------|---------------------------------|---------------------------------|-------------------|--------------------|----------------------|-------------------------------------|------------|
| [Watt] | [min] | | $\times 10^{-3}$ | $\times 10^{-4}$ | $\times 10^{-15}$ | | | | (Ma) |
| 2 | 1 | 7.971 | 7.559 | 7.833 | 21.29 | - | 96.8 | 7.7 | 91.3 ± 0.5 |
| 2 | 1 | 7.767 | 9.500 | 0.8645 | 62.14 | - | 99.4 | 7.7 | 91.3 ± 0.6 |
| 2 | 1 | 8.583 | 8.096 | 29.62 | 23.70 | - | 89.5 | 7.7 | 90.9 ± 0.5 |

K-Ar age = 91.2 Ma

| PV Biotite J=0.007765 | | | | | | | | | |
|-----------------------|-------|---------------------------------|---------------------------------|---------------------------------|-------------------|--------------------|----------------------|-------------------------------------|------------|
| Power | Time | $^{40}\text{Ar}/^{39}\text{Ar}$ | $^{37}\text{Ar}/^{39}\text{Ar}$ | $^{36}\text{Ar}/^{39}\text{Ar}$ | ^{39}Ar | $\%^{39}\text{Ar}$ | $\%^{40}\text{Ar}_*$ | $^{40}\text{Ar}^*/^{39}\text{Ar}_K$ | Age* |
| [W att] | [m h] | | $\times 10^{-3}$ | $\times 10^{-4}$ | $\times 10^{-15}$ | | | | (Ma) |
| 3 | 1 | 7.261 | 21.70 | 22.20 | 14.50 | - | 90.59 | 6.584 | 89.9 ± 0.2 |
| 3 | 1 | 7.622 | 16.90 | 32.20 | 14.70 | - | 87.16 | 6.649 | 90.8 ± 0.2 |
| 3 | 1 | 7.197 | 10.40 | 19.00 | 15.20 | - | 91.81 | 6.613 | 90.3 ± 0.3 |
| 3 | 1 | 7.457 | 31.90 | 32.00 | 16.00 | - | 87.00 | 6.493 | 88.7 ± 0.2 |

K-Ar age = 89.9 Ma

| RR Biotite J=0.007769 | | | | | | | | | |
|-----------------------|-------|---------------------------------|---------------------------------|---------------------------------|-------------------|--------------------|----------------------|-------------------------------------|------------|
| Power | Time | $^{40}\text{Ar}/^{39}\text{Ar}$ | $^{37}\text{Ar}/^{39}\text{Ar}$ | $^{36}\text{Ar}/^{39}\text{Ar}$ | ^{39}Ar | $\%^{39}\text{Ar}$ | $\%^{40}\text{Ar}_*$ | $^{40}\text{Ar}^*/^{39}\text{Ar}_K$ | Age* |
| [W att] | [m h] | | $\times 10^{-3}$ | $\times 10^{-4}$ | $\times 10^{-15}$ | | | | (Ma) |
| 3 | 1 | 6.759 | 5.350 | 7.890 | 12.20 | - | 96.12 | 6.504 | 88.9 ± 0.4 |
| 3 | 1 | 6.826 | 9.030 | 10.20 | 16.70 | - | 95.22 | 6.505 | 88.9 ± 0.2 |
| 3 | 1 | 6.773 | 47.70 | 8.450 | 19.90 | - | 95.98 | 6.505 | 89.0 ± 0.3 |

K-Ar age = 88.9 Ma

| SFH Biotite J=0.007539 | | | | | | | | | |
|------------------------|-------|---------------------------------|---------------------------------|---------------------------------|-------------------|--------------------|----------------------|-------------------------------------|------------|
| Power | Time | $^{40}\text{Ar}/^{39}\text{Ar}$ | $^{37}\text{Ar}/^{39}\text{Ar}$ | $^{36}\text{Ar}/^{39}\text{Ar}$ | ^{39}Ar | $\%^{39}\text{Ar}$ | $\%^{40}\text{Ar}_*$ | $^{40}\text{Ar}^*/^{39}\text{Ar}_K$ | Age* |
| [W att] | [m h] | | $\times 10^{-3}$ | $\times 10^{-4}$ | $\times 10^{-15}$ | | | | (Ma) |
| 4 | 1 | 6.82 | 330 | 13.4 | 26.9 | - | 94.2 | 6.44 | 85.5 ± 0.4 |
| 4 | 1 | 6.90 | 49.0 | 5.80 | 19.1 | - | 97.1 | 6.71 | 89.0 ± 0.2 |
| 4 | 1 | 7.03 | 21.9 | 11.7 | 21.6 | - | 94.6 | 6.66 | 88.3 ± 0.2 |
| 4 | 1 | 7.11 | 250 | 16.9 | 15.0 | - | 92.8 | 6.61 | 87.7 ± 0.5 |
| 4 | 1 | 7.01 | 15.4 | 11.2 | 11.3 | - | 94.7 | 6.66 | 88.4 ± 0.5 |

K-Ar age = 89.4 Ma

| SP Biotite J=0.007517 | | | | | | | | | |
|-----------------------|-------|---------------------------------|---------------------------------|---------------------------------|-------------------|--------------------|----------------------|-------------------------------------|------------|
| Power | Time | $^{40}\text{Ar}/^{39}\text{Ar}$ | $^{37}\text{Ar}/^{39}\text{Ar}$ | $^{36}\text{Ar}/^{39}\text{Ar}$ | ^{39}Ar | $\%^{39}\text{Ar}$ | $\%^{40}\text{Ar}_*$ | $^{40}\text{Ar}^*/^{39}\text{Ar}_K$ | Age* |
| [W att] | [m h] | | $\times 10^{-3}$ | $\times 10^{-4}$ | $\times 10^{-15}$ | | | | (Ma) |
| 4 | 1 | 6.18 | 39.7 | 15.9 | 30.2 | - | 91.9 | 5.69 | 75.6 ± 0.2 |
| 4 | 1 | 6.31 | 79.7 | 19.7 | 24.8 | - | 90.4 | 5.71 | 75.8 ± 0.2 |
| 4 | 1 | 6.23 | 66.2 | 19.1 | 22.3 | - | 90.5 | 5.65 | 75.0 ± 0.5 |
| 4 | 1 | 6.33 | 34.9 | 14.5 | 29.6 | - | 92.8 | 5.88 | 78.0 ± 0.1 |
| 4 | 1 | 6.34 | 237 | 13.9 | 27.3 | - | 93.3 | 5.92 | 78.6 ± 0.2 |

K-Ar age = 76.7 Ma

| SY Biotite J=0.007659 | | | | | | | | | |
|-----------------------|-------|---------------------------------|---------------------------------|---------------------------------|-------------------|--------------------|----------------------|-------------------------------------|------------|
| Power | Time | $^{40}\text{Ar}/^{39}\text{Ar}$ | $^{37}\text{Ar}/^{39}\text{Ar}$ | $^{36}\text{Ar}/^{39}\text{Ar}$ | ^{39}Ar | $\%^{39}\text{Ar}$ | $\%^{40}\text{Ar}_*$ | $^{40}\text{Ar}^*/^{39}\text{Ar}_K$ | Age* |
| [W att] | [m h] | | $\times 10^{-3}$ | $\times 10^{-4}$ | $\times 10^{-15}$ | | | | (Ma) |
| 4 | 1 | 7.05 | 2.44 | 8.89 | 21.1 | - | 95.8 | 6.76 | 91.1 ± 0.2 |
| 4 | 1 | 7.09 | 13.4 | 11.0 | 17.6 | - | 95.0 | 6.74 | 90.8 ± 0.5 |
| 4 | 1 | 7.13 | 32.8 | 12.9 | 15.5 | - | 94.3 | 6.72 | 90.6 ± 0.3 |
| 4 | 1 | 6.94 | 14.7 | 6.75 | 13.4 | - | 96.7 | 6.72 | 90.5 ± 0.3 |
| 4 | 1 | 6.97 | 10.8 | 7.04 | 23.7 | - | 96.6 | 6.74 | 90.8 ± 0.2 |

K-Ar age = 90.8 Ma

| TG Biotite J=0.007529 ¹ | | | | | | | | | |
|------------------------------------|-------|------------------------------------|------------------------------------|------------------------------------|--------------------|--------------------|---------------------------------|--|------------|
| Power | Time | ⁴⁰ Ar/ ³⁹ Ar | ³⁷ Ar/ ³⁹ Ar | ³⁶ Ar/ ³⁹ Ar | ³⁹ Ar | % ³⁹ Ar | % ⁴⁰ Ar _k | ⁴⁰ Ar*/ ³⁹ Ar _k | Age* |
| [Watt] | [min] | | x10 ⁻³ | x10 ⁻⁴ | x10 ⁻¹⁵ | | | | (Ma) |
| 4 | 1 | 6.31 | 345 | 11.1 | 20.6 | - | 94.7 | 5.99 | 79.6 ± 0.4 |
| 4 | 1 | 6.30 | 25.7 | 7.05 | 17.9 | - | 96.1 | 6.07 | 80.6 ± 0.3 |
| 4 | 1 | 6.18 | 45.5 | 5.92 | 18.8 | - | 96.7 | 5.99 | 79.6 ± 0.2 |
| 4 | 1 | 6.18 | 137 | 8.23 | 16.5 | - | 95.7 | 5.92 | 78.7 ± 0.3 |
| 4 | 1 | 6.15 | 36.0 | 7.17 | 19.5 | - | 96.0 | 5.92 | 78.7 ± 0.4 |

*K-Ar age = 79.4 Ma

| TS Biotite J=0.007760 | | | | | | | | | |
|-----------------------|-------|------------------------------------|------------------------------------|------------------------------------|--------------------|--------------------|---------------------------------|--|------------|
| Power | Time | ⁴⁰ Ar/ ³⁹ Ar | ³⁷ Ar/ ³⁹ Ar | ³⁶ Ar/ ³⁹ Ar | ³⁹ Ar | % ³⁹ Ar | % ⁴⁰ Ar _k | ⁴⁰ Ar*/ ³⁹ Ar _k | Age* |
| [Watt] | [min] | | x10 ⁻³ | x10 ⁻⁴ | x10 ⁻¹⁵ | | | | (Ma) |
| 3 | 1 | 6.899 | 5.610 | 17.00 | 10.70 | - | 92.28 | 6.375 | 87.1 ± 0.3 |
| 3 | 1 | 6.956 | 12.43 | 16.70 | 9.860 | - | 92.48 | 6.442 | 88.0 ± 0.3 |
| 3 | 1 | 9.391 | 13.10 | 102.0 | 16.70 | - | 67.79 | 6.370 | 87.0 ± 0.7 |

*K-Ar age = 87.3 Ma

| WC Biotite J=0.006730 | | | | | | | | | |
|-----------------------|-------|------------------------------------|------------------------------------|------------------------------------|--------------------|--------------------|---------------------------------|--|------------|
| Power | Time | ⁴⁰ Ar/ ³⁹ Ar | ³⁷ Ar/ ³⁹ Ar | ³⁶ Ar/ ³⁹ Ar | ³⁹ Ar | % ³⁹ Ar | % ⁴⁰ Ar _k | ⁴⁰ Ar*/ ³⁹ Ar _k | Age* |
| [Watt] | [min] | | x10 ⁻³ | x10 ⁻⁴ | x10 ⁻¹⁵ | | | | (Ma) |
| 3 | 1 | 7.367 | 14.68 | 9.747 | 32.32 | - | 95.8 | 7.06 | 83.7 ± 0.3 |
| 3 | 1 | 7.371 | 30.75 | 11.49 | 75.99 | - | 95.1 | 7.01 | 83.2 ± 0.5 |
| 3 | 1 | 7.454 | 29.16 | 11.46 | 90.16 | - | 95.2 | 7.09 | 84.1 ± 0.5 |

*K-Ar age = 83.7 Ma

| WYN Biotite J=0.007761 | | | | | | | | | |
|------------------------|-------|------------------------------------|------------------------------------|------------------------------------|--------------------|--------------------|---------------------------------|--|------------|
| Power | Time | ⁴⁰ Ar/ ³⁹ Ar | ³⁷ Ar/ ³⁹ Ar | ³⁶ Ar/ ³⁹ Ar | ³⁹ Ar | % ³⁹ Ar | % ⁴⁰ Ar _k | ⁴⁰ Ar*/ ³⁹ Ar _k | Age* |
| [Watt] | [min] | | x10 ⁻³ | x10 ⁻⁴ | x10 ⁻¹⁵ | | | | (Ma) |
| 3 | 1 | 6.992 | 9.090 | 12.80 | 11.60 | - | 94.2 | 6.59 | 90.0 ± 0.4 |
| 3 | 1 | 7.030 | 12.59 | 11.30 | 16.60 | - | 94.9 | 6.68 | 91.1 ± 0.2 |
| 3 | 1 | 6.979 | 5.580 | 13.20 | 18.60 | - | 94.0 | 6.57 | 89.7 ± 0.1 |

*K-Ar age = 90.3 Ma

| YA Biotite 9.70 mg J=0.007645 | | | | | | | | | |
|-------------------------------|-------|------------------------------------|------------------------------------|------------------------------------|--------------------|--------------------|---------------------------------|--|------------|
| Temp | Time | ⁴⁰ Ar/ ³⁹ Ar | ³⁷ Ar/ ³⁹ Ar | ³⁶ Ar/ ³⁹ Ar | ³⁹ Ar | % ³⁹ Ar | % ⁴⁰ Ar _k | ⁴⁰ Ar*/ ³⁹ Ar _k | Age* |
| [°C] | [min] | | x10 ⁻³ | x10 ⁻⁴ | x10 ⁻¹⁵ | | | | (Ma) |
| 600 | 11 | 10.9 | 193 | 271 | 24.2 | 2.9 | 26.3 | 2.87 | 39.2 ± 0.4 |
| 700 | 12 | 6.28 | 41.1 | 16.6 | 87.5 | 13.2 | 91.4 | 5.77 | 77.9 ± 0.2 |
| 750 | 10 | 6.01 | 11.4 | 3.92 | 130 | 28.4 | 97.2 | 5.87 | 79.2 ± 0.1 |
| 790 | 12 | 6.01 | 14.1 | 2.94 | 101 | 40.3 | 97.6 | 5.90 | 79.6 ± 0.1 |
| 830 | 12 | 6.07 | 17.6 | 3.58 | 77.0 | 49.4 | 97.2 | 5.94 | 80.1 ± 0.1 |
| 870 | 10 | 6.12 | 24.8 | 4.36 | 43.5 | 54.5 | 96.4 | 5.96 | 80.4 ± 0.2 |
| 910 | 10 | 6.25 | 33.1 | 7.31 | 30.7 | 58.1 | 94.7 | 6.01 | 81.0 ± 0.2 |
| 980 | 10 | 6.29 | 53.2 | 4.85 | 90.9 | 68.8 | 96.8 | 6.13 | 82.6 ± 0.1 |
| 1050 | 10 | 6.07 | 65.2 | 3.09 | 124 | 83.5 | 97.6 | 5.95 | 80.3 ± 0.1 |
| 1350 | 10 | 8.15 | 424 | 74.3 | 140 | 100.0 | 71.0 | 5.96 | 80.4 ± 0.2 |

*K-Ar age = 78.9

1110-IK-Feldspar 213.6 mg J=0.007684

| Power (Amps) | Time (min) | $^{40}\text{Ar}/^{39}\text{Ar}$ | $^{37}\text{Ar}/^{39}\text{Ar}$ $\times 10^{-3}$ | $^{36}\text{Ar}/^{39}\text{Ar}$ $\times 10^{-4}$ | ^{39}Ar $\times 10^{-15}$ (mol) | % ^{39}Ar | % $^{40}\text{Ar}^*$ | $^{40}\text{Ar}^*/^{39}\text{Ar}^*$ | Age [†] (Ma) |
|-----------------|---------------|---------------------------------|---|---|---|--------------------|----------------------|-------------------------------------|--------------------------|
| 0.65 | 4 | 14.73 | - | 332.5 | 8.823 | 0.288 | 32.8 | 4.88 | 66.6 ± 2.4 |
| 0.65 | 6 | 6.46 | - | 43.46 | 141.6 | 4.91 | 79.7 | 5.16 | 70.3 ± 0.2 |
| 0.65 | 6 | 6.04 | - | 22.23 | 12.85 | 5.33 | 87.4 | 5.36 | 73.0 ± 0.6 |
| 0.65 | 8 | 5.90 | - | 14.56 | 142.4 | 10.0 | 92.2 | 5.45 | 74.2 ± 0.1 |
| 0.65 | 9 | 5.82 | - | 10.52 | 80.85 | 12.6 | 94.0 | 5.49 | 74.7 ± 0.1 |
| 0.65 | 10 | 5.81 | - | 8.779 | 56.66 | 14.5 | 94.8 | 5.52 | 75.2 ± 0.1 |
| 0.65 | 11 | 5.84 | - | 8.922 | 42.75 | 15.9 | 94.6 | 5.55 | 75.5 ± 0.2 |
| 0.65 | 13 | 5.83 | - | 8.819 | 31.52 | 16.9 | 94.5 | 5.54 | 75.4 ± 0.2 |
| 0.65 | 16 | 5.83 | - | 8.543 | 26.34 | 17.8 | 94.5 | 5.56 | 75.6 ± 0.2 |
| 0.65 | 20 | 5.84 | - | 8.745 | 24.00 | 18.6 | 94.4 | 5.56 | 75.6 ± 0.3 |
| 0.70 | 10 | 6.62 | - | 33.41 | 13.05 | 19.0 | 83.4 | 5.61 | 76.2 ± 0.5 |
| 0.70 | 20 | 5.94 | - | 11.68 | 59.69 | 20.9 | 93.4 | 5.57 | 75.8 ± 0.2 |
| 0.75 | 10 | 6.95 | - | 44.87 | 57.48 | 22.8 | 80.3 | 5.60 | 76.1 ± 0.2 |
| 0.75 | 15 | 5.87 | - | 8.979 | 71.21 | 25.1 | 94.7 | 5.59 | 76.0 ± 0.1 |
| 0.75 | 20 | 5.92 | - | 9.931 | 58.88 | 27.1 | 94.2 | 5.60 | 76.2 ± 0.1 |
| 0.80 | 10 | 6.30 | - | 23.56 | 74.77 | 29.5 | 88.2 | 5.58 | 75.9 ± 0.2 |
| 0.80 | 15 | 6.16 | - | 18.40 | 92.86 | 32.5 | 90.5 | 5.59 | 76.0 ± 0.2 |
| 0.80 | 20 | 6.31 | - | 23.39 | 86.16 | 35.4 | 88.4 | 5.60 | 76.1 ± 0.3 |
| 0.85 | 10 | 6.59 | - | 33.10 | 61.89 | 37.4 | 84.4 | 5.59 | 76.0 ± 0.2 |
| 0.85 | 15 | 6.47 | - | 31.61 | 169.5 | 42.9 | 85.0 | 5.51 | 75.0 ± 0.2 |
| 0.90 | 10 | 6.70 | - | 36.43 | 127.3 | 47.1 | 83.3 | 5.60 | 76.1 ± 0.2 |
| 0.90 | 15 | 6.70 | - | 35.79 | 112.6 | 50.8 | 83.6 | 5.62 | 76.4 ± 0.2 |
| 0.90 | 20 | 6.74 | - | 37.39 | 121.3 | 54.7 | 83.0 | 5.61 | 76.4 ± 0.2 |
| 0.95 | 10 | 6.94 | - | 43.21 | 96.52 | 57.9 | 80.9 | 5.64 | 76.7 ± 0.2 |
| 0.95 | 15 | 7.14 | - | 50.15 | 143.7 | 62.6 | 78.7 | 5.64 | 76.7 ± 0.3 |
| 0.95 | 20 | 7.25 | - | 53.44 | 139.4 | 67.1 | 77.7 | 5.65 | 76.8 ± 0.2 |
| 1.00 | 10 | 7.23 | - | 53.19 | 138.3 | 71.6 | 77.7 | 5.64 | 76.6 ± 0.2 |
| 1.00 | 15 | 7.38 | - | 58.44 | 195.8 | 78.0 | 76.1 | 5.63 | 76.6 ± 0.2 |
| 1.00 | 20 | 7.49 | - | 61.62 | 122.2 | 82.0 | 75.1 | 5.64 | 76.7 ± 0.3 |
| 1.00 | 25 | 7.79 | - | 71.02 | 164.1 | 87.4 | 72.6 | 5.67 | 77.1 ± 0.3 |
| 1.05 | 10 | 8.15 | - | 81.54 | 102.9 | 90.8 | 69.8 | 5.72 | 77.8 ± 0.3 |
| 1.05 | 15 | 7.70 | - | 67.37 | 90.97 | 93.7 | 73.5 | 5.69 | 77.4 ± 0.4 |
| 1.10 | 10 | 8.24 | - | 82.98 | 122.4 | 97.7 | 69.7 | 5.77 | 78.4 ± 0.3 |
| 1.10 | 15 | 8.25 | - | 81.84 | 33.84 | 98.8 | 69.2 | 5.81 | 78.9 ± 0.4 |
| 1.20 | 10 | 13.30 | - | 248.0 | 24.44 | 99.6 | 43.9 | 5.95 | 80.9 ± 1.1 |
| 1.25 | 10 | 8.47 | - | 84.99 | 11.21 | 100 | 65.2 | 5.93 | 80.6 ± 0.6 |

[†]K-Ar age = 76.1 Ma

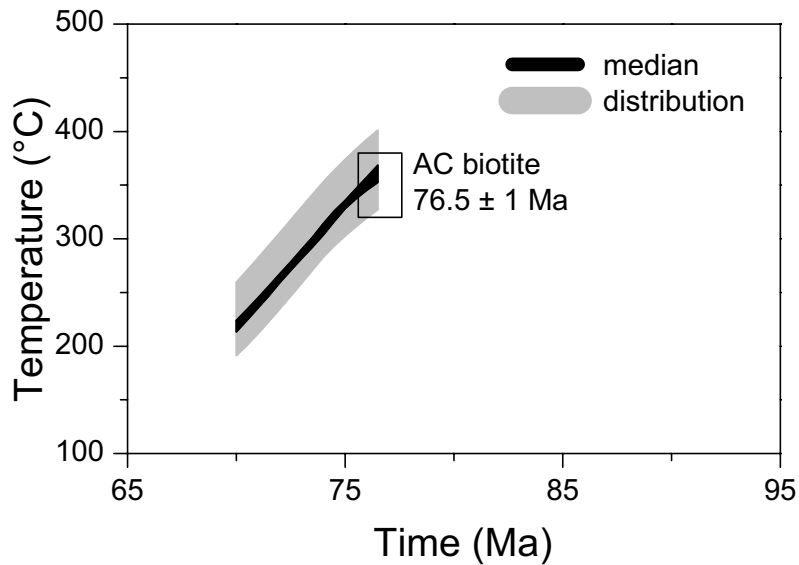
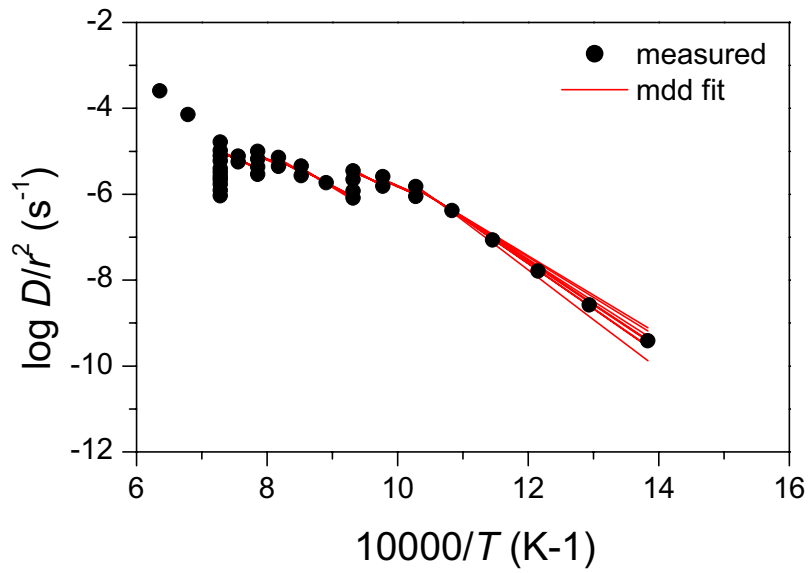
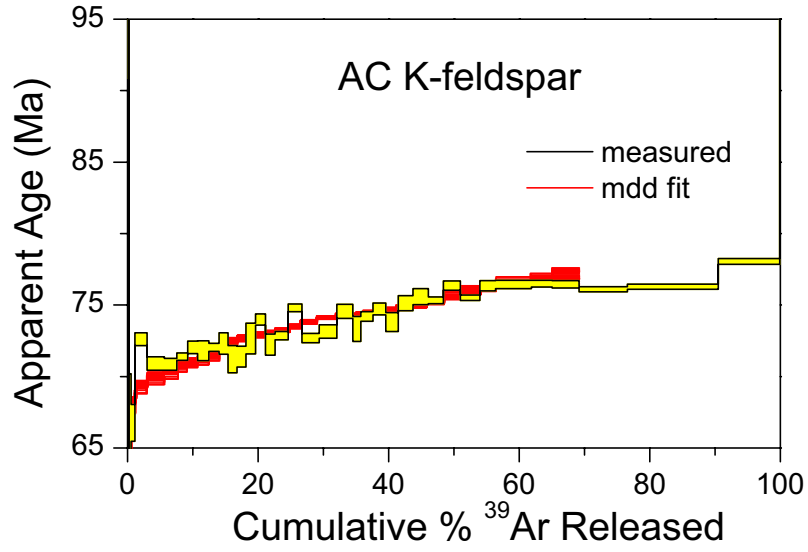
AC K-Feldspar 200.7 mg J=0.007730

| Temp (°C) | Time (min) | $^{40}\text{Ar}/^{39}\text{Ar}$ | $^{37}\text{Ar}/^{39}\text{Ar}$ $\times 10^{-3}$ | $^{36}\text{Ar}/^{39}\text{Ar}$ $\times 10^{-4}$ | ^{39}Ar $\times 10^{-15}$ (mol) | % ^{39}Ar | % $^{40}\text{Ar}^*$ | $^{40}\text{Ar}^*/^{39}\text{Ar}^*$ | Age ^t (Ma) |
|--------------|---------------|---------------------------------|---|---|---|--------------------|----------------------|-------------------------------------|--------------------------|
| 450 | 20 | 198 | 554 | 6566 | 33.3 | 0.100 | 1.9 | 3.86 | 53.1 ± 43.2 |
| 500 | 22 | 54.2 | 238 | 1582 | 63.7 | 0.200 | 13.6 | 7.46 | 101.1 ± 10.3 |
| 550 | 21 | 20.7 | 132 | 535 | 145 | 0.600 | 23.1 | 4.84 | 66.3 ± 3.9 |
| 500 | 27 | 40.6 | 264 | 1271 | 19.0 | 0.600 | 7.0 | 3.03 | 41.8 ± 17.0 |
| 600 | 15 | 12.1 | 123 | 245 | 252 | 1.20 | 39.5 | 4.88 | 66.8 ± 1.3 |
| 500 | 45 | 53.0 | 427 | 1780 | 14.3 | 1.20 | 0.8 | 0.43 | 6.0 ± 38.0 |
| 650 | 24 | 9.12 | 110 | 128 | 802 | 3.00 | 57.9 | 5.31 | 72.6 ± 0.5 |
| 700 | 20 | 6.74 | 135 | 52.2 | 1154 | 5.70 | 76.4 | 5.19 | 70.9 ± 0.5 |
| 700 | 37 | 5.83 | 111 | 21.6 | 826 | 7.60 | 87.9 | 5.18 | 70.8 ± 0.4 |
| 750 | 14 | 6.02 | 143 | 26.4 | 712 | 9.20 | 85.8 | 5.22 | 71.4 ± 0.3 |
| 750 | 26 | 5.70 | 121 | 14.0 | 661 | 10.7 | 91.3 | 5.27 | 72.0 ± 0.4 |
| 800 | 15 | 5.94 | 153 | 22.7 | 748 | 12.4 | 87.5 | 5.25 | 71.8 ± 0.7 |
| 800 | 25 | 5.67 | 127 | 13.0 | 683 | 14.0 | 91.8 | 5.27 | 72.0 ± 0.3 |
| 800 | 45 | 5.80 | 116 | 16.6 | 600 | 15.3 | 90.0 | 5.29 | 72.3 ± 0.7 |
| 800 | 70 | 5.99 | 115 | 26.0 | 588 | 16.7 | 85.7 | 5.21 | 71.2 ± 1.0 |
| 750 | 15 | 7.04 | 157 | 32.6 | 24.1 | 16.7 | 66.5 | 6.06 | 82.6 ± 4.6 |
| 700 | 30 | 7.86 | -85.8 | 0.000 | 10.2 | 16.8 | 65.3 | 8.33 | 112.6 ± 2.7 |
| 650 | 567 | 17.0 | 99.7 | 390 | 50.5 | 16.9 | 30.4 | 5.48 | 74.9 ± 10.5 |
| 850 | 34 | 6.07 | 112 | 28.3 | 600 | 18.2 | 84.8 | 5.22 | 71.4 ± 0.7 |
| 900 | 16 | 6.60 | 104 | 42.8 | 630 | 19.7 | 79.7 | 5.32 | 72.7 ± 1.1 |
| 900 | 30 | 5.88 | 72.4 | 15.0 | 658 | 21.2 | 91.0 | 5.41 | 74.0 ± 0.4 |
| 950 | 12 | 6.56 | 78.3 | 42.5 | 646 | 22.7 | 79.7 | 5.28 | 72.2 ± 0.7 |
| 950 | 28 | 5.89 | 60.6 | 18.2 | 870 | 24.6 | 89.7 | 5.33 | 72.9 ± 0.3 |
| 1000 | 14 | 6.38 | 66.0 | 29.9 | 903 | 26.7 | 85.1 | 5.48 | 74.8 ± 0.3 |
| 1000 | 30 | 6.03 | 72.2 | 23.6 | 1162 | 29.4 | 87.5 | 5.32 | 72.7 ± 0.3 |
| 1000 | 50 | 6.17 | 70.5 | 27.0 | 1162 | 32 | 86.2 | 5.35 | 73.1 ± 0.5 |
| 1000 | 73 | 6.35 | 70.1 | 29.5 | 1052 | 34.4 | 85.4 | 5.46 | 74.6 ± 0.5 |
| 950 | 10 | 6.86 | -6.57 | 19.8 | 43.0 | 34.5 | 77.9 | 6.25 | 85.1 ± 4.1 |
| 900 | 16 | 7.05 | -19.7 | 58.9 | 23.9 | 34.6 | 57.8 | 5.29 | 72.2 ± 7.6 |
| 850 | 41 | 8.13 | -200 | 0.000 | 18.3 | 34.6 | 86.7 | 9.41 | 126.7 ± 17.5 |
| 1050 | 15 | 6.53 | 106 | 38.9 | 543 | 35.8 | 81.0 | 5.37 | 73.3 ± 0.9 |
| 1050 | 32 | 6.59 | 111 | 38.8 | 811 | 37.7 | 81.6 | 5.43 | 74.2 ± 0.3 |
| 1100 | 12 | 6.81 | 140 | 44.8 | 837 | 39.6 | 79.7 | 5.47 | 74.7 ± 0.4 |
| 1100 | 20 | 6.89 | 152 | 49.9 | 845 | 41.5 | 77.8 | 5.40 | 73.8 ± 0.7 |
| 1100 | 32 | 6.88 | 144 | 46.4 | 972 | 43.8 | 79.3 | 5.50 | 75.1 ± 0.5 |
| 1100 | 47 | 6.90 | 137 | 45.6 | 1026 | 46.1 | 79.7 | 5.54 | 75.6 ± 0.6 |
| 1050 | 10 | 7.42 | 105 | 40.5 | 97.1 | 46.3 | 78.2 | 6.21 | 84.6 ± 3.4 |
| 1000 | 16 | 7.53 | 141 | 76.4 | 51.1 | 46.4 | 61.8 | 5.26 | 71.9 ± 4.6 |
| 950 | 25 | 9.26 | 264 | 217 | 24.6 | 46.5 | 25.0 | 2.83 | 39.0 ± 14.6 |
| 850 | 550 | 17.8 | 277 | 404 | 62.7 | 46.6 | 31.7 | 5.91 | 80.5 ± 4.7 |
| 1100 | 72 | 6.54 | 107 | 34.0 | 988 | 48.9 | 83.7 | 5.52 | 75.3 ± 0.2 |
| 1100 | 104 | 9.71 | 114 | 139 | 1120 | 51.5 | 57.3 | 5.59 | 76.4 ± 0.3 |
| 1100 | 168 | 6.82 | 118 | 43.3 | 1302 | 54.4 | 80.6 | 5.53 | 75.5 ± 0.2 |

AC K-Feldspar (continued)

| Temp (°C) | Time (min) | $^{40}\text{Ar}/^{39}\text{Ar}$ | $^{37}\text{Ar}/^{39}\text{Ar}$ $\times 10^{-3}$ | $^{36}\text{Ar}/^{39}\text{Ar}$ $\times 10^{-4}$ | ^{39}Ar $\times 10^{-15}$ (mol) | % ^{39}Ar | % $^{40}\text{Ar}^*$ | $^{40}\text{Ar}^*/^{39}\text{Ar}^*$ | Age [†] (Ma) |
|--------------|---------------|---------------------------------|---|---|---|--------------------|----------------------|-------------------------------------|--------------------------|
| 1100 | 170 | 6.78 | 112 | 39.8 | 1055 | 56.8 | 81.9 | 5.59 | 76.4 ± 0.4 |
| 1100 | 535 | 7.56 | 102 | 65.7 | 2361 | 62.2 | 73.9 | 5.60 | 76.4 ± 0.3 |
| 1100 | 487 | 6.73 | 87.4 | 37.4 | 1387 | 65.4 | 82.9 | 5.60 | 76.5 ± 0.2 |
| 1100 | 920 | 6.74 | 76.9 | 37.9 | 1786 | 69.5 | 82.8 | 5.60 | 76.5 ± 0.3 |
| 1200 | 26 | 6.15 | 38.8 | 18.7 | 3204 | 76.8 | 90.5 | 5.57 | 76.1 ± 0.2 |
| 1300 | 24 | 6.10 | 44.6 | 16.8 | 6045 | 90.6 | 91.4 | 5.59 | 76.3 ± 0.2 |
| 1550 | 15 | 6.79 | 23.6 | 35.6 | 4086 | 99.9 | 84.1 | 5.72 | 78.1 ± 0.2 |
| 1550 | 15 | 22.3 | 31.1 | 474 | 37.6 | 100 | 35.0 | 8.28 | 112.0 ± 9.8 |

[†]K-Ar age = 74.9 Ma



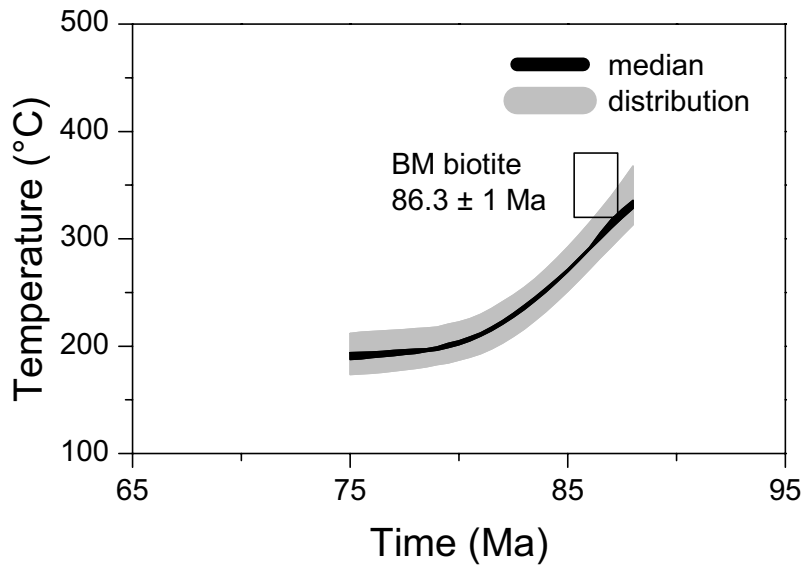
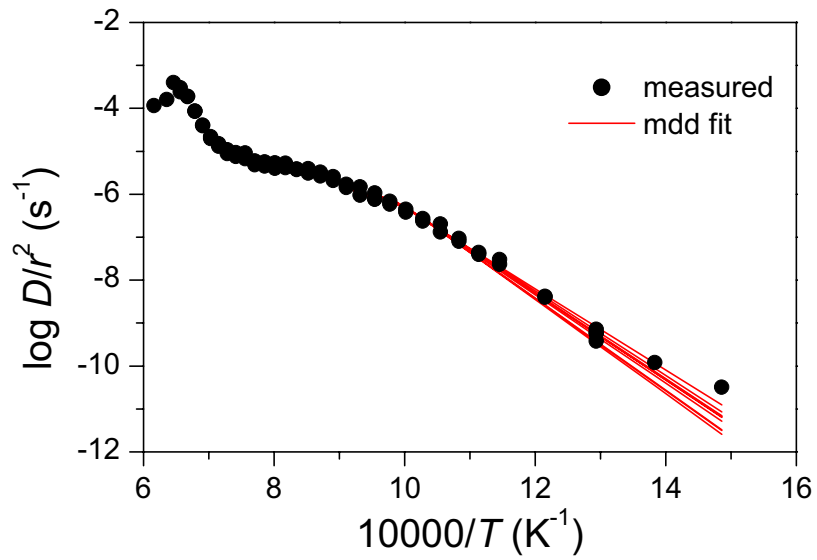
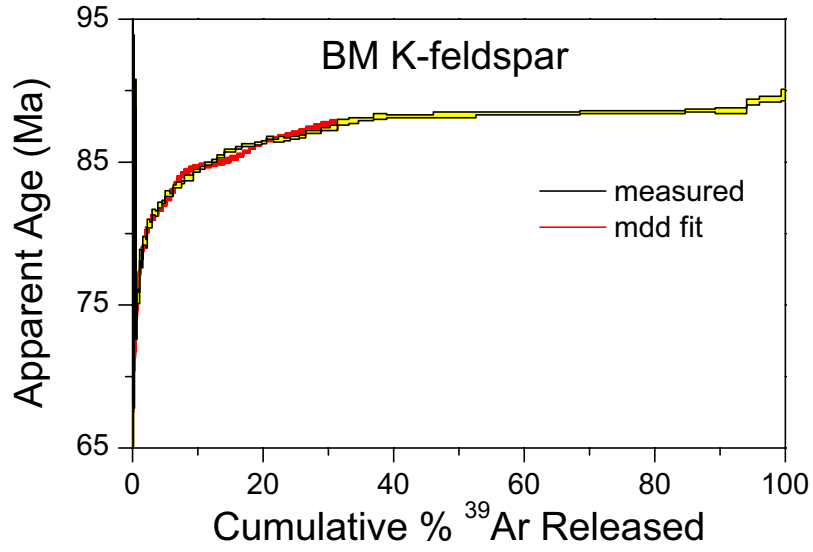
BM K-Feldspar 242.5 mg J=0.007725

| Temp (°C) | Time (min) | $^{40}\text{Ar}/^{39}\text{Ar}$ | $^{37}\text{Ar}/^{39}\text{Ar}$ $\times 10^{-3}$ | $^{36}\text{Ar}/^{39}\text{Ar}$ $\times 10^{-4}$ | ^{39}Ar $\times 10^{-15}$ (mol) | % ^{39}Ar | % $^{40}\text{Ar}^*$ | $^{40}\text{Ar}^*/^{39}\text{Ar}^*$ | Age [†] (Ma) |
|--------------|---------------|---------------------------------|---|---|---|--------------------|----------------------|-------------------------------------|--------------------------|
| 400 | 10 | 42.50 | 431.8 | 1203.567 | 2.3 | 0.0157 | 15.9 | 6.95 | 94.4 ± 25.8 |
| 450 | 10 | 31.31 | 736.0 | 746.804 | 2.7 | 0.0341 | 28.8 | 9.29 | 125.0 ± 11.7 |
| 500 | 10 | 24.08 | 327.8 | 431.182 | 6.1 | 0.0754 | 46.3 | 11.35 | 151.6 ± 6.0 |
| 500 | 10 | 8.63 | 672.2 | 132.6 | 4.482 | 0.106 | 51.6 | 4.75 | 65.0 ± 4.0 |
| 450 | 100 | 9.75 | 154.6 | 192.5 | 6.496 | 0.149 | 39.9 | 4.05 | 55.6 ± 3.7 |
| 500 | 10 | 5.97 | 1044 | 49.76 | 1.924 | 0.162 | 62.4 | 4.57 | 62.6 ± 5.6 |
| 500 | 10 | 6.11 | 401.9 | 38.31 | 2.498 | 0.179 | 68.8 | 4.91 | 67.2 ± 4.1 |
| 550 | 10 | 9.38 | 230.3 | 87.57 | 13.08 | 0.268 | 70.9 | 6.79 | 92.3 ± 1.6 |
| 550 | 10 | 5.57 | 114.3 | 16.87 | 8.787 | 0.327 | 86.2 | 5.06 | 69.1 ± 1.3 |
| 600 | 10 | 8.48 | 74.56 | 62.78 | 40.40 | 0.599 | 77.3 | 6.61 | 89.8 ± 1.0 |
| 600 | 10 | 5.85 | 95.71 | 15.82 | 20.98 | 0.741 | 89.9 | 5.37 | 73.3 ± 0.7 |
| 450 | 760 | 8.66 | 136.5 | 109.1 | 7.357 | 0.791 | 53.8 | 5.42 | 74.0 ± 2.1 |
| 625 | 10 | 5.97 | 64.41 | 14.01 | 31.18 | 1.00 | 91.5 | 5.54 | 75.6 ± 0.5 |
| 625 | 10 | 5.71 | 43.89 | 5.331 | 22.88 | 1.16 | 95.0 | 5.53 | 75.5 ± 0.4 |
| 650 | 10 | 6.16 | 46.26 | 13.09 | 43.42 | 1.45 | 92.5 | 5.75 | 78.5 ± 0.4 |
| 650 | 10 | 5.84 | 32.24 | 3.915 | 31.15 | 1.66 | 96.3 | 5.71 | 77.9 ± 0.3 |
| 675 | 10 | 6.13 | 62.97 | 9.319 | 63.78 | 2.09 | 94.6 | 5.84 | 79.5 ± 0.3 |
| 675 | 10 | 5.92 | 57.18 | 2.726 | 35.12 | 2.33 | 97.1 | 5.82 | 79.3 ± 0.3 |
| 700 | 10 | 6.16 | 64.05 | 7.385 | 62.72 | 2.75 | 95.5 | 5.92 | 80.7 ± 0.3 |
| 700 | 10 | 6.00 | 84.99 | 2.581 | 47.26 | 3.07 | 97.6 | 5.91 | 80.6 ± 0.2 |
| 725 | 10 | 6.21 | 77.49 | 6.969 | 77.76 | 3.59 | 95.9 | 5.98 | 81.5 ± 0.2 |
| 725 | 10 | 6.04 | 68.63 | 1.636 | 58.53 | 3.99 | 98.2 | 5.98 | 81.4 ± 0.2 |
| 750 | 10 | 6.15 | 65.30 | 3.598 | 92.26 | 4.61 | 97.5 | 6.02 | 82.0 ± 0.2 |
| 750 | 10 | 6.08 | 72.63 | 1.005 | 69.13 | 5.08 | 98.6 | 6.03 | 82.2 ± 0.1 |
| 775 | 10 | 6.22 | 62.63 | 4.127 | 112.2 | 5.83 | 97.4 | 6.08 | 82.8 ± 0.2 |
| 775 | 10 | 6.12 | 55.82 | 0.965 | 71.96 | 6.32 | 98.6 | 6.07 | 82.7 ± 0.1 |
| 775 | 10 | 6.14 | 59.02 | 0.250 | 68.05 | 6.78 | 99.0 | 6.12 | 83.3 ± 0.1 |
| 800 | 10 | 6.21 | 51.25 | 2.377 | 117.6 | 7.57 | 98.2 | 6.12 | 83.4 ± 0.2 |
| 800 | 10 | 6.18 | 43.12 | 0.619 | 69.86 | 8.04 | 98.8 | 6.14 | 83.6 ± 0.1 |
| 825 | 10 | 6.27 | 52.18 | 2.874 | 115.5 | 8.82 | 98.0 | 6.17 | 83.9 ± 0.2 |
| 825 | 10 | 6.22 | 56.55 | 1.078 | 88.79 | 9.42 | 98.7 | 6.17 | 83.9 ± 0.2 |
| 850 | 10 | 6.30 | 47.62 | 2.604 | 147.6 | 10.4 | 98.2 | 6.20 | 84.4 ± 0.1 |
| 850 | 10 | 6.26 | 45.92 | 0.875 | 109.4 | 11.2 | 98.9 | 6.22 | 84.6 ± 0.1 |
| 875 | 10 | 6.34 | 38.14 | 2.766 | 158.0 | 12.2 | 98.1 | 6.24 | 84.9 ± 0.1 |
| 875 | 10 | 6.30 | 33.64 | 1.022 | 119.4 | 13.0 | 98.9 | 6.25 | 85.1 ± 0.1 |
| 900 | 10 | 6.39 | 36.57 | 2.970 | 164.8 | 14.1 | 98.1 | 6.28 | 85.4 ± 0.1 |
| 900 | 10 | 6.36 | 33.02 | 1.218 | 121.6 | 15.0 | 98.8 | 6.30 | 85.8 ± 0.1 |
| 925 | 10 | 6.42 | 29.09 | 2.974 | 138.1 | 15.9 | 98.0 | 6.31 | 85.8 ± 0.1 |
| 925 | 10 | 6.39 | 22.53 | 1.894 | 133.7 | 16.8 | 98.5 | 6.32 | 86.0 ± 0.1 |
| 950 | 10 | 6.48 | 28.98 | 4.339 | 173.3 | 18.0 | 97.5 | 6.33 | 86.2 ± 0.1 |
| 950 | 10 | 6.40 | 15.82 | 1.374 | 127.0 | 18.8 | 98.7 | 6.33 | 86.2 ± 0.1 |
| 975 | 10 | 6.46 | 25.35 | 3.089 | 158.4 | 19.9 | 98.0 | 6.35 | 86.3 ± 0.1 |
| 975 | 10 | 6.42 | 8.992 | 1.562 | 111.7 | 20.6 | 98.6 | 6.35 | 86.4 ± 0.1 |

BM K-Feldspar (continued)

| Temp (°C) | Time (h) | $^{40}\text{Ar}/^{39}\text{Ar}$ | $^{37}\text{Ar}/^{39}\text{Ar}$ $\times 10^{-3}$ | $^{36}\text{Ar}/^{39}\text{Ar}$ $\times 10^{-4}$ | ^{39}Ar $\times 10^{-15}$ (mol) | % ^{39}Ar | % $^{40}\text{Ar}^{\dagger}$ | $^{40}\text{Ar}^{\dagger}/^{39}\text{Ar}$ | Age [†] (Ma) |
|--------------|-------------|---------------------------------|---|---|---|--------------------|------------------------------|---|--------------------------|
| 1000 | 10 | 6.46 | 13.28 | 2.195 | 151.2 | 21.7 | 98.4 | 6.38 | 86.7 ± 0.1 |
| 1000 | 10 | 6.43 | 8.616 | 1.722 | 116.5 | 22.4 | 98.5 | 6.36 | 86.5 ± 0.1 |
| 1025 | 10 | 6.45 | 16.67 | 2.101 | 120.5 | 23.3 | 98.4 | 6.37 | 86.6 ± 0.2 |
| 1025 | 10 | 6.46 | 14.05 | 2.321 | 143.0 | 24.2 | 98.3 | 6.36 | 86.6 ± 0.1 |
| 1050 | 10 | 6.49 | 19.42 | 3.128 | 206.8 | 25.6 | 98.0 | 6.37 | 86.7 ± 0.1 |
| 1050 | 10 | 6.49 | 6.859 | 2.984 | 146.4 | 26.6 | 98.0 | 6.38 | 86.8 ± 0.1 |
| 1075 | 10 | 6.54 | 15.62 | 3.898 | 192.9 | 27.9 | 97.7 | 6.41 | 87.1 ± 0.1 |
| 1075 | 10 | 6.55 | 20.05 | 3.955 | 150.3 | 28.9 | 97.6 | 6.41 | 87.1 ± 0.1 |
| 1100 | 10 | 6.59 | 14.46 | 5.120 | 208.4 | 30.3 | 97.2 | 6.41 | 87.3 ± 0.1 |
| 1100 | 10 | 6.60 | 12.43 | 5.139 | 161.6 | 31.4 | 97.1 | 6.42 | 87.4 ± 0.2 |
| 1125 | 10 | 6.72 | 23.00 | 8.179 | 262.0 | 33.2 | 95.9 | 6.45 | 87.8 ± 0.2 |
| 1125 | 10 | 6.71 | 23.10 | 7.565 | 217.3 | 34.6 | 96.2 | 6.47 | 87.9 ± 0.2 |
| 1150 | 10 | 6.76 | 26.17 | 9.322 | 345.3 | 37.0 | 95.5 | 6.47 | 88.0 ± 0.1 |
| 1150 | 10 | 6.77 | 30.69 | 8.968 | 294.5 | 39.0 | 95.7 | 6.48 | 88.2 ± 0.2 |
| 1175 | 10 | 6.76 | 24.92 | 8.544 | 564.1 | 42.8 | 95.9 | 6.49 | 88.2 ± 0.1 |
| 1175 | 10 | 6.75 | 22.06 | 8.052 | 500.8 | 46.1 | 96.1 | 6.49 | 88.2 ± 0.1 |
| 1200 | 10 | 6.72 | 16.64 | 6.977 | 965.3 | 52.7 | 96.6 | 6.49 | 88.3 ± 0.2 |
| 1200 | 10 | 6.72 | 14.26 | 6.604 | 845.1 | 58.4 | 96.7 | 6.50 | 88.4 ± 0.1 |
| 1225 | 10 | 6.70 | 11.94 | 6.026 | 1514 | 68.6 | 97.0 | 6.50 | 88.4 ± 0.1 |
| 1225 | 10 | 6.71 | 8.982 | 5.954 | 1118 | 76.1 | 97.0 | 6.51 | 88.5 ± 0.1 |
| 1250 | 10 | 6.71 | 11.88 | 6.097 | 1268 | 84.7 | 97.0 | 6.51 | 88.5 ± 0.1 |
| 1250 | 10 | 6.73 | 11.77 | 6.405 | 682.8 | 89.3 | 96.8 | 6.51 | 88.6 ± 0.1 |
| 1275 | 10 | 6.90 | 14.15 | 12.23 | 709.6 | 94.1 | 94.4 | 6.52 | 88.6 ± 0.2 |
| 1300 | 10 | 6.85 | 21.73 | 9.038 | 184.8 | 95.3 | 95.6 | 6.56 | 89.2 ± 0.2 |
| 1350 | 10 | 6.91 | 18.31 | 11.16 | 109.7 | 96.0 | 94.6 | 6.56 | 89.2 ± 0.2 |
| 1450 | 10 | 6.89 | 16.32 | 9.897 | 492.3 | 99.4 | 95.4 | 6.58 | 89.4 ± 0.2 |
| 1450 | 10 | 7.42 | -10.74 | 26.84 | 93.53 | 100 | 88.6 | 6.60 | 89.7 ± 0.4 |

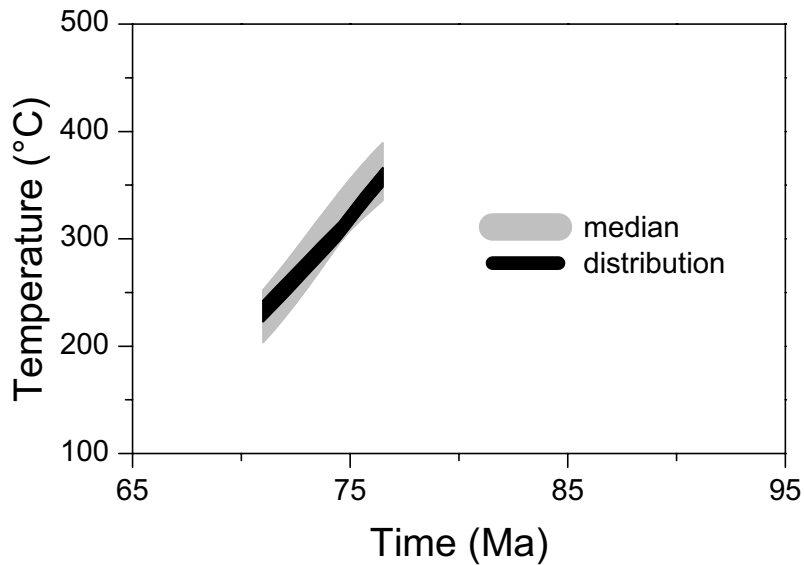
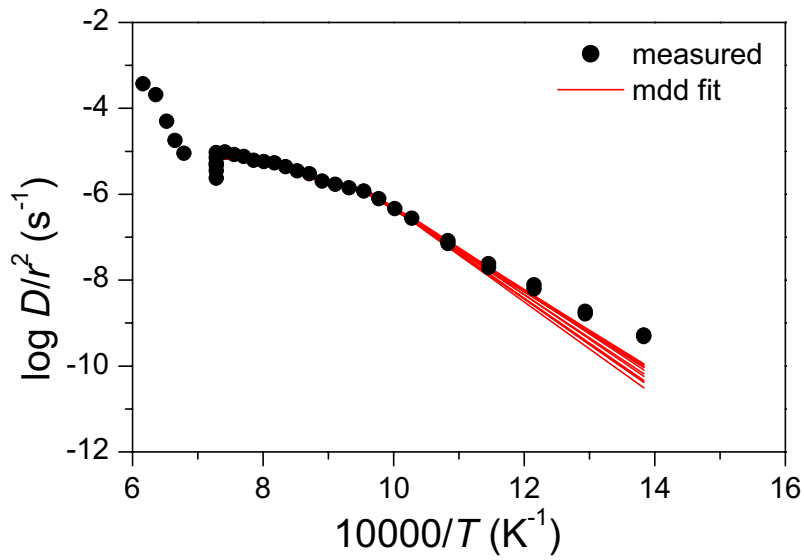
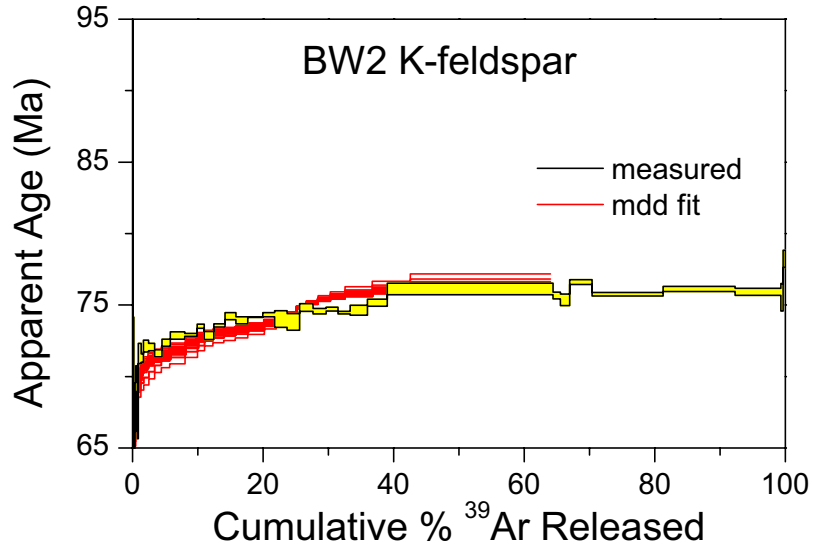
[†]K-Ar age = 87.4 Ma



BW -2 K-Feldspar 33.0 mg J=0.004220

| Temp (°C) | Time (h) | $^{40}\text{Ar}/^{39}\text{Ar}$ | $^{37}\text{Ar}/^{39}\text{Ar}$ $\times 10^{-3}$ | $^{36}\text{Ar}/^{39}\text{Ar}$ $\times 10^{-4}$ | ^{39}Ar $\times 10^{-15}$ (mol) | % ^{39}Ar | % $^{40}\text{Ar}^*$ | $^{40}\text{Ar}^*/^{39}\text{Ar}^*$ | Age [†] (Ma) |
|--------------|-------------|---------------------------------|---|---|---|--------------------|----------------------|-------------------------------------|--------------------------|
| 450 | 15 | 567.8 | 45.17 | 18681 | 4.408 | 0.0773 | 2.8 | 15.8 | 116.5 ± 67.9 |
| 450 | 20 | 127.7 | 57.59 | 4249 | 2.173 | 0.115 | 1.7 | 2.20 | 16.6 ± 33.4 |
| 500 | 15 | 23.48 | 20.31 | 473.7 | 4.036 | 0.186 | 39.5 | 9.47 | 70.7 ± 3.5 |
| 500 | 20 | 13.05 | 15.85 | 198.5 | 3.313 | 0.244 | 51.9 | 7.17 | 53.8 ± 7.8 |
| 550 | 15 | 15.87 | 21.27 | 238.0 | 8.089 | 0.386 | 54.8 | 8.82 | 66.0 ± 1.7 |
| 550 | 20 | 10.62 | 25.50 | 51.81 | 6.165 | 0.494 | 82.3 | 9.08 | 67.9 ± 1.7 |
| 600 | 15 | 12.49 | 23.28 | 105.9 | 13.02 | 0.722 | 74.0 | 9.35 | 69.8 ± 0.9 |
| 600 | 20 | 9.969 | 25.97 | 33.59 | 10.41 | 0.905 | 87.7 | 8.97 | 67.0 ± 1.4 |
| 650 | 15 | 11.28 | 24.63 | 56.67 | 24.33 | 1.33 | 84.4 | 9.60 | 71.6 ± 0.7 |
| 650 | 20 | 9.786 | 22.72 | 7.619 | 20.46 | 1.69 | 96.3 | 9.55 | 71.3 ± 0.3 |
| 700 | 15 | 10.73 | 28.58 | 35.89 | 43.63 | 2.46 | 89.7 | 9.67 | 72.1 ± 0.4 |
| 725 | 15 | 9.959 | 30.66 | 10.14 | 51.46 | 3.36 | 96.5 | 9.66 | 72.1 ± 0.3 |
| 750 | 15 | 9.968 | 30.95 | 12.42 | 64.82 | 4.49 | 95.9 | 9.60 | 71.6 ± 0.2 |
| 775 | 15 | 10.05 | 28.82 | 11.69 | 74.46 | 5.80 | 96.2 | 9.70 | 72.4 ± 0.3 |
| 800 | 28 | 9.894 | 25.92 | 4.025 | 125.0 | 7.99 | 98.4 | 9.77 | 72.9 ± 0.3 |
| 825 | 26 | 9.886 | 22.33 | 3.477 | 107.8 | 9.88 | 98.5 | 9.77 | 72.9 ± 0.1 |
| 850 | 15 | 9.958 | 19.98 | 3.045 | 63.52 | 11.0 | 98.6 | 9.86 | 73.5 ± 0.1 |
| 875 | 15 | 9.988 | 17.95 | 7.103 | 83.80 | 12.5 | 97.5 | 9.77 | 72.9 ± 0.3 |
| 900 | 17 | 9.993 | 15.08 | 3.825 | 96.24 | 14.2 | 98.4 | 9.86 | 73.6 ± 0.1 |
| 925 | 15 | 10.04 | 12.30 | 2.243 | 94.40 | 15.8 | 98.9 | 9.95 | 74.2 ± 0.2 |
| 950 | 15 | 10.05 | 9.573 | 3.904 | 104.7 | 17.6 | 98.4 | 9.91 | 73.9 ± 0.2 |
| 975 | 20 | 10.01 | 7.306 | 4.691 | 131.8 | 20.0 | 98.2 | 9.94 | 74.2 ± 0.0 |
| 1000 | 16 | 10.11 | 5.583 | 4.052 | 103.2 | 21.8 | 98.3 | 10.0 | 74.3 ± 0.2 |
| 1025 | 15 | 10.14 | 5.576 | 6.401 | 108.0 | 23.7 | 97.7 | 9.92 | 74.0 ± 0.6 |
| 1050 | 15 | 10.17 | 5.339 | 8.389 | 111.4 | 25.6 | 97.1 | 9.90 | 73.8 ± 0.6 |
| 1075 | 15 | 10.19 | 5.654 | 4.511 | 117.4 | 27.7 | 98.2 | 10.0 | 74.8 ± 0.3 |
| 1100 | 16 | 10.19 | 6.144 | 5.592 | 112.0 | 29.6 | 97.8 | 10.0 | 74.6 ± 0.2 |
| 1100 | 21 | 10.23 | 6.302 | 6.353 | 105.7 | 31.5 | 97.5 | 10.0 | 74.7 ± 0.1 |
| 1100 | 30 | 10.20 | 6.690 | 6.417 | 104.0 | 33.3 | 97.2 | 10.0 | 74.5 ± 0.1 |
| 1100 | 70 | 10.32 | 7.171 | 9.912 | 152.7 | 36.0 | 96.9 | 10.0 | 74.6 ± 0.3 |
| 1100 | 126 | 10.36 | 7.500 | 8.719 | 172.9 | 39.0 | 96.8 | 10.1 | 75.2 ± 0.3 |
| 1100 | 768 | 10.70 | 8.549 | 15.94 | 1449 | 64.4 | 95.3 | 10.2 | 76.1 ± 0.4 |
| 1200 | 24 | 10.95 | 28.19 | 26.98 | 63.20 | 65.5 | 91.7 | 10.2 | 75.7 ± 0.2 |
| 1230 | 16 | 10.73 | 18.25 | 20.40 | 80.63 | 67.0 | 93.7 | 10.1 | 75.4 ± 0.4 |
| 1260 | 15 | 10.70 | 10.09 | 13.49 | 196.2 | 70.4 | 95.9 | 10.3 | 76.6 ± 0.2 |
| 1300 | 15 | 10.76 | 3.476 | 19.41 | 621.8 | 81.3 | 94.4 | 10.2 | 75.7 ± 0.1 |
| 1350 | 16 | 11.06 | 2.311 | 27.77 | 626.3 | 92.3 | 92.3 | 10.2 | 76.1 ± 0.2 |
| 1550 | 17 | 11.21 | 4.110 | 33.91 | 400.2 | 99.3 | 90.8 | 10.2 | 75.9 ± 0.3 |
| 1550 | 16 | 11.37 | 0.9919 | 40.88 | 19.66 | 99.6 | 83.7 | 10.1 | 75.6 ± 1.0 |
| 1550 | 17 | 11.57 | 0.2308 | 35.28 | 20.20 | 100 | 85.1 | 10.5 | 78.2 ± 0.6 |

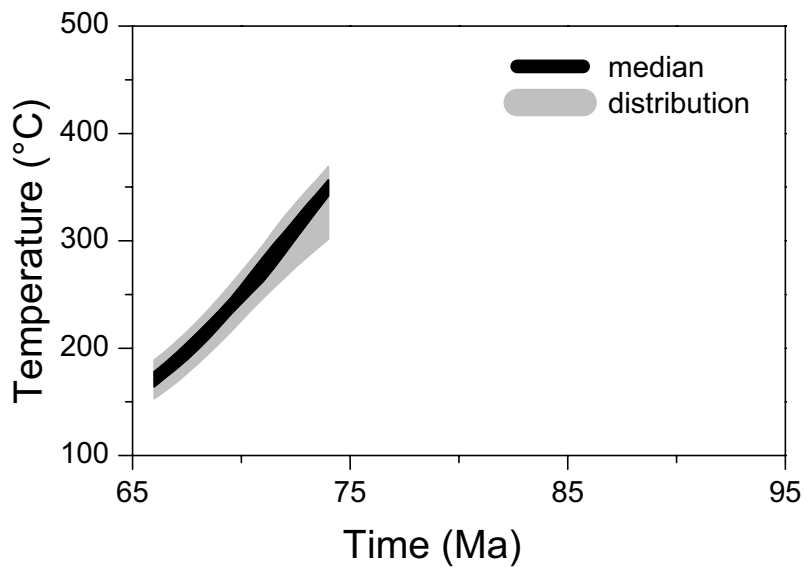
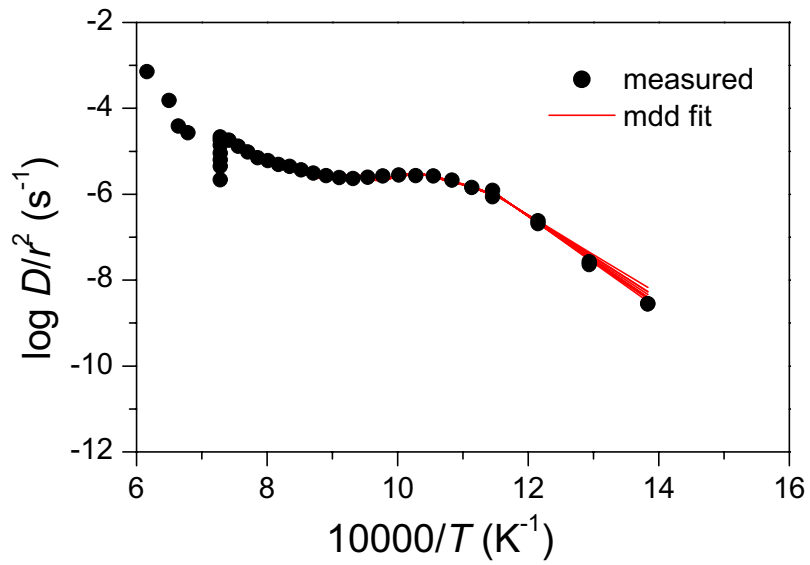
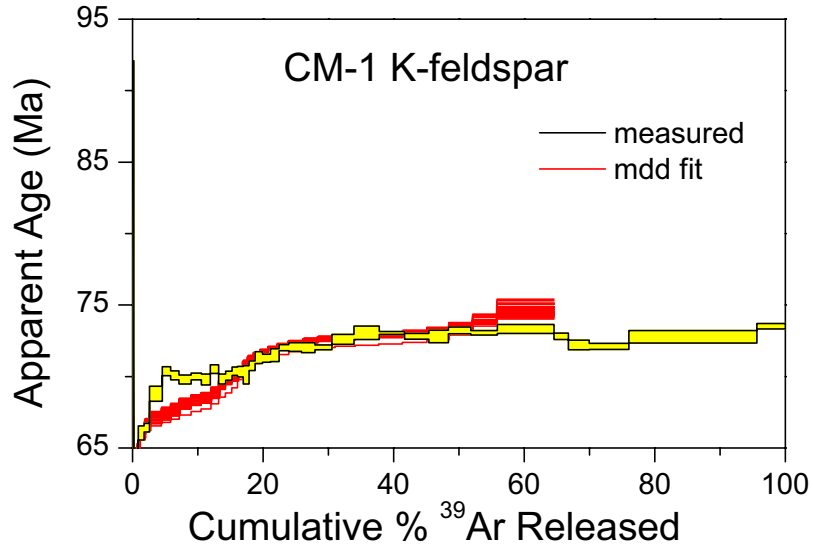
[†]K-Ar age = 75.1 Ma



CM -1 K-Feldspar 24.1 mg J=0.004220

| Temp (°C) | Time (min) | $^{40}\text{Ar}/^{39}\text{Ar}$ | $^{37}\text{Ar}/^{39}\text{Ar}$ $\times 10^{-3}$ | $^{36}\text{Ar}/^{39}\text{Ar}$ $\times 10^{-4}$ | ^{39}Ar $\times 10^{-15}$ (mol) | % ^{39}Ar | % $^{40}\text{Ar}^*$ | $^{40}\text{Ar}^*/^{39}\text{Ar}^*$ | Age [†] (Ma) |
|--------------|---------------|---------------------------------|---|---|---|--------------------|----------------------|-------------------------------------|--------------------------|
| 450 | 16 | 193.9 | 8.714 | 6231 | 8.570 | 0.185 | 4.998 | 9.700 | 72.4 ± 19.70 |
| 450 | 20 | 72.25 | 8.842 | 2241 | 4.246 | 0.277 | 8.232 | 5.995 | 45.1 ± 6.93 |
| 500 | 15 | 13.23 | 12.45 | 185.1 | 14.13 | 0.582 | 57.90 | 7.739 | 58.0 ± 1.42 |
| 500 | 20 | 9.600 | 6.850 | 57.45 | 13.10 | 0.865 | 80.45 | 7.877 | 59.0 ± 1.28 |
| 550 | 15 | 10.07 | 3.895 | 40.87 | 41.56 | 1.76 | 87.35 | 8.836 | 66.0 ± 0.50 |
| 550 | 20 | 9.340 | 3.686 | 14.48 | 38.58 | 2.60 | 94.47 | 8.886 | 66.4 ± 0.31 |
| 600 | 15 | 10.03 | 5.205 | 26.97 | 90.44 | 4.55 | 91.60 | 9.211 | 68.8 ± 0.53 |
| 600 | 20 | 9.563 | 0.9658 | 3.690 | 59.03 | 5.83 | 98.13 | 9.428 | 70.4 ± 0.31 |
| 625 | 15 | 9.955 | 2.480 | 18.39 | 58.39 | 7.09 | 93.95 | 9.386 | 70.1 ± 0.32 |
| 650 | 19 | 9.920 | 3.556 | 18.55 | 87.82 | 8.98 | 93.94 | 9.346 | 69.8 ± 0.32 |
| 675 | 15 | 10.02 | 6.290 | 21.02 | 71.67 | 10.5 | 93.28 | 9.375 | 70.0 ± 0.23 |
| 700 | 15 | 10.14 | 12.51 | 25.97 | 63.60 | 11.9 | 91.88 | 9.347 | 69.8 ± 0.38 |
| 725 | 15 | 10.12 | 3.508 | 22.02 | 58.74 | 13.2 | 92.98 | 9.446 | 70.5 ± 0.31 |
| 750 | 15 | 9.948 | 4.499 | 19.30 | 50.71 | 14.3 | 93.61 | 9.351 | 69.8 ± 0.35 |
| 775 | 15 | 9.973 | 9.660 | 19.08 | 44.52 | 15.2 | 93.63 | 9.384 | 70.1 ± 0.32 |
| 800 | 15 | 9.975 | 7.818 | 17.65 | 39.25 | 16.1 | 93.98 | 9.428 | 70.4 ± 0.29 |
| 825 | 15 | 10.07 | 7.412 | 20.95 | 39.34 | 16.9 | 93.07 | 9.422 | 70.3 ± 0.36 |
| 850 | 15 | 10.17 | 0.5839 | 25.60 | 40.97 | 17.8 | 91.81 | 9.391 | 70.1 ± 0.64 |
| 875 | 15 | 10.11 | 5.906 | 20.46 | 44.67 | 18.8 | 93.29 | 9.479 | 70.8 ± 0.34 |
| 900 | 15 | 10.34 | 5.229 | 25.78 | 50.36 | 19.9 | 91.97 | 9.556 | 71.3 ± 0.42 |
| 925 | 15 | 10.30 | 7.273 | 24.61 | 57.73 | 21.1 | 92.32 | 9.551 | 71.3 ± 0.28 |
| 950 | 15 | 10.61 | 1.955 | 33.94 | 60.12 | 22.4 | 89.96 | 9.580 | 71.5 ± 0.45 |
| 975 | 15 | 10.34 | 5.811 | 22.45 | 69.16 | 23.9 | 93.05 | 9.651 | 72.0 ± 0.22 |
| 1000 | 18 | 10.35 | 6.578 | 22.43 | 90.22 | 25.9 | 93.07 | 9.659 | 72.1 ± 0.30 |
| 1025 | 15 | 10.53 | 4.393 | 28.80 | 94.90 | 27.9 | 91.44 | 9.651 | 72.0 ± 0.34 |
| 1050 | 15 | 10.65 | 5.997 | 32.72 | 119.5 | 30.5 | 90.49 | 9.656 | 72.1 ± 0.17 |
| 1075 | 16 | 10.80 | 0.614 | 35.40 | 158.0 | 33.9 | 89.98 | 9.731 | 72.6 ± 0.35 |
| 1100 | 17 | 10.84 | 5.045 | 34.61 | 179.3 | 37.8 | 90.25 | 9.793 | 73.1 ± 0.46 |
| 1100 | 22 | 10.81 | 3.155 | 33.59 | 177.5 | 41.6 | 90.48 | 9.792 | 73.0 ± 0.10 |
| 1100 | 31 | 10.79 | 3.160 | 33.94 | 173.6 | 45.4 | 90.32 | 9.761 | 72.8 ± 0.20 |
| 1100 | 41 | 10.78 | 10.93 | 33.73 | 138.3 | 48.3 | 90.19 | 9.758 | 72.8 ± 0.44 |
| 1100 | 72 | 10.81 | 6.645 | 32.71 | 159.1 | 51.8 | 90.32 | 9.817 | 73.2 ± 0.24 |
| 1100 | 134 | 10.99 | 10.31 | 39.67 | 187.3 | 55.8 | 88.59 | 9.794 | 73.1 ± 0.15 |
| 1100 | 680 | 11.27 | 13.34 | 47.83 | 401.0 | 64.5 | 87.00 | 9.830 | 73.3 ± 0.31 |
| 1200 | 16 | 12.62 | 15.60 | 95.86 | 101.4 | 66.7 | 77.05 | 9.759 | 72.8 ± 0.22 |
| 1233 | 18 | 12.73 | 13.63 | 102.4 | 149.0 | 69.9 | 75.90 | 9.677 | 72.2 ± 0.34 |
| 1266 | 10 | 11.86 | 9.044 | 73.37 | 281.4 | 76.0 | 81.41 | 9.663 | 72.1 ± 0.21 |
| 1350 | 16 | 11.31 | 0.4659 | 51.90 | 905.4 | 95.5 | 86.15 | 9.755 | 72.8 ± 0.44 |
| 1550 | 15 | 11.08 | 3.797 | 40.47 | 202.2 | 99.9 | 88.43 | 9.856 | 73.5 ± 0.19 |
| 1550 | 15 | 10.36 | 19.96 | 43.94 | 4.530 | 100 | 67.52 | 9.035 | 67.5 ± 2.64 |

[†]K-Ar age = 72.1 Ma



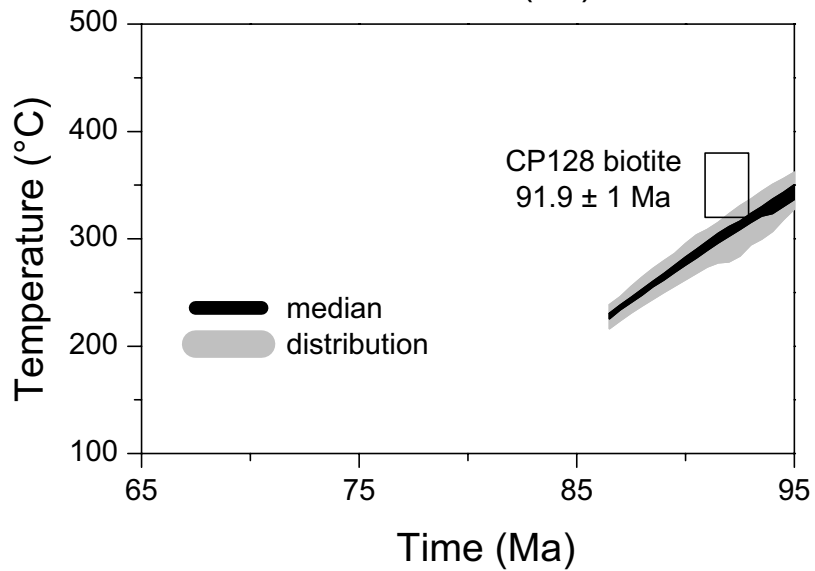
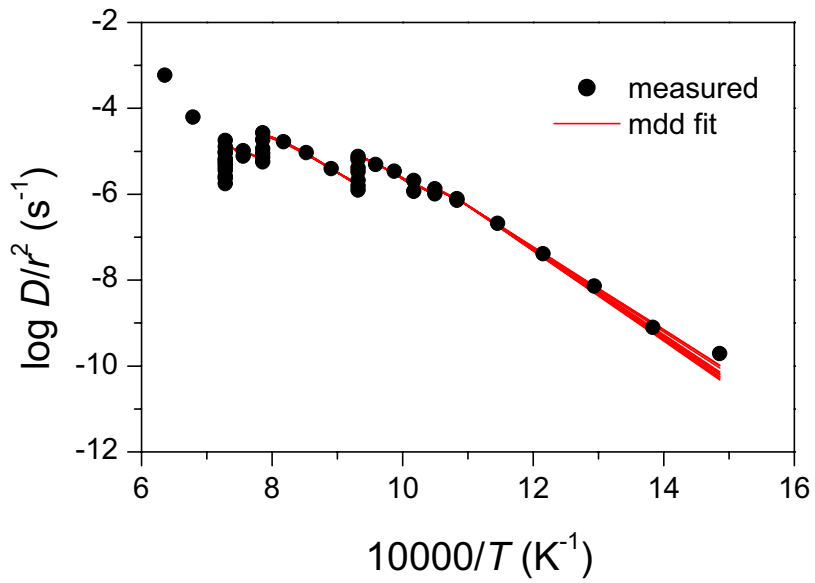
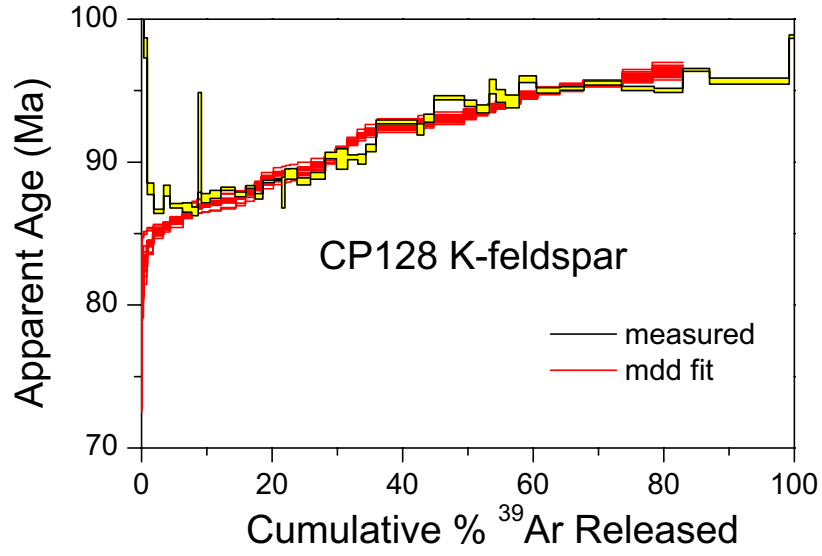
CP-128 K-Feldspar 198.7 mg J=0.007585

| Temp (°C) | Time (h) | ⁴⁰ Ar/ ³⁹ Ar | ³⁷ Ar/ ³⁹ Ar x10 ⁻³ | ³⁶ Ar/ ³⁹ Ar x10 ⁻⁴ | ³⁹ Ar x10 ⁻¹⁵ (mol) | % ³⁹ Ar | % ⁴⁰ Ar* | ⁴⁰ Ar*/ ³⁹ Ar _K | Age† (Ma) |
|--------------|-------------|------------------------------------|---|---|--|--------------------|---------------------|--|--------------|
| 400 | 15 | 104.3 | 76.0 | 3220 | 29.0 | 0.1 | 8.7 | 9.07 | 120.0 ± 10.8 |
| 450 | 22 | 25.7 | 89.4 | 513 | 47.7 | 0.1 | 40.7 | 10.48 | 138.0 ± 6.8 |
| 500 | 20 | 11.0 | 29.6 | 89.5 | 141 | 0.3 | 75.6 | 8.35 | 110.8 ± 1.5 |
| 550 | 22 | 8.08 | 11.8 | 23.4 | 335 | 0.9 | 91.0 | 7.36 | 98.0 ± 0.7 |
| 500 | 21 | 6.41 | 45.4 | 56.0 | 43.1 | 0.9 | 72.8 | 4.73 | 63.6 ± 5.6 |
| 600 | 17 | 6.85 | 8.85 | 7.42 | 600 | 1.9 | 96.3 | 6.60 | 88.1 ± 0.4 |
| 500 | 52 | 6.30 | 13.60 | 0.000 | 37.1 | 1.9 | 100.5 | 6.44 | 86.0 ± 1.4 |
| 650 | 13 | 6.71 | 9.32 | 7.12 | 915 | 3.4 | 96.4 | 6.48 | 86.6 ± 0.1 |
| 650 | 14 | 6.57 | 7.37 | 0.000 | 608 | 4.3 | 100.2 | 6.59 | 88.0 ± 0.4 |
| 680 | 20 | 6.57 | 8.91 | 1.07 | 1170 | 6.1 | 99.1 | 6.51 | 87.0 ± 0.2 |
| 680 | 26 | 6.58 | 9.53 | 1.89 | 879 | 7.5 | 98.7 | 6.50 | 86.8 ± 0.3 |
| 710 | 10 | 6.64 | 10.7 | 4.57 | 597 | 8.4 | 97.5 | 6.48 | 86.6 ± 0.3 |
| 710 | 10 | 6.64 | 8.56 | 0.000 | 304 | 8.9 | 102.8 | 6.85 | 91.4 ± 3.5 |
| 740 | 10 | 6.64 | 11.9 | 2.06 | 817 | 10.2 | 98.6 | 6.55 | 87.5 ± 0.3 |
| 770 | 10 | 6.66 | 12.1 | 2.06 | 1020 | 11.8 | 98.7 | 6.57 | 87.7 ± 0.3 |
| 800 | 10 | 6.66 | 12.3 | 1.20 | 1340 | 13.9 | 99.1 | 6.60 | 88.1 ± 0.1 |
| 800 | 10 | 6.63 | 11.3 | 1.13 | 1010 | 15.4 | 98.9 | 6.57 | 87.7 ± 0.2 |
| 800 | 15 | 6.65 | 9.95 | 0.439 | 862 | 16.8 | 99.2 | 6.61 | 88.3 ± 0.1 |
| 800 | 17 | 6.65 | 8.66 | 2.32 | 731 | 17.9 | 98.3 | 6.56 | 87.6 ± 0.2 |
| 800 | 43 | 6.67 | 8.26 | 0.478 | 1080 | 19.6 | 99.2 | 6.64 | 88.6 ± 0.1 |
| 800 | 40 | 6.68 | 7.34 | 0.379 | 703 | 20.7 | 99.2 | 6.65 | 88.8 ± 0.1 |
| 750 | 50 | 6.61 | 6.79 | 3.32 | 227 | 21.1 | 97.2 | 6.49 | 86.7 ± 0.2 |
| 650 | 109 | 6.66 | 7.06 | 24.5 | 28.8 | 21.1 | 85.6 | 5.92 | 79.2 ± 4.1 |
| 600 | 774 | 10.2 | 4.02 | 99.2 | 34.3 | 21.2 | 69.5 | 7.21 | 96.1 ± 7.4 |
| 700 | 66 | 6.85 | 5.99 | 36.2 | 72.3 | 21.3 | 82.8 | 5.75 | 77.0 ± 5.0 |
| 800 | 22 | 6.74 | 8.04 | 4.86 | 298 | 21.7 | 97.2 | 6.58 | 87.9 ± 1.1 |
| 850 | 10 | 6.81 | 7.79 | 3.52 | 416 | 22.4 | 97.9 | 6.68 | 89.2 ± 0.4 |
| 900 | 8 | 6.81 | 12.2 | 3.50 | 744 | 23.6 | 98.0 | 6.68 | 89.2 ± 0.4 |
| 950 | 8 | 6.78 | 12.5 | 3.81 | 1250 | 25.5 | 97.9 | 6.64 | 88.6 ± 0.3 |
| 1000 | 6 | 6.82 | 9.23 | 4.38 | 1400 | 27.7 | 97.7 | 6.67 | 89.0 ± 0.2 |
| 1000 | 7 | 6.84 | 5.87 | 1.16 | 1040 | 29.3 | 99.0 | 6.78 | 90.5 ± 0.2 |
| 1000 | 12 | 6.92 | 6.40 | 4.40 | 1040 | 30.9 | 97.7 | 6.76 | 90.2 ± 0.7 |
| 1000 | 15 | 6.95 | 5.32 | 5.08 | 964 | 32.5 | 97.4 | 6.77 | 90.3 ± 0.2 |
| 1000 | 15 | 6.99 | 5.59 | 6.93 | 753 | 33.6 | 96.6 | 6.76 | 90.2 ± 0.4 |
| 1000 | 26 | 7.04 | 5.41 | 6.80 | 974 | 35.2 | 96.5 | 6.82 | 91.0 ± 0.3 |
| 1050 | 63 | 7.15 | 7.77 | 5.63 | 3860 | 41.2 | 97.2 | 6.96 | 92.8 ± 0.1 |
| 850 | 76 | 7.83 | 13.6 | 53.3 | 90.0 | 41.3 | 77.1 | 6.23 | 83.3 ± 1.8 |
| 750 | 846 | 9.74 | 12.1 | 107 | 56.7 | 41.4 | 64.5 | 6.54 | 87.3 ± 6.7 |
| 850 | 68 | 7.10 | 5.04 | 12.6 | 48.0 | 41.5 | 88.4 | 6.70 | 89.4 ± 1.5 |
| 950 | 38 | 7.20 | 3.49 | 7.29 | 232 | 41.8 | 95.3 | 6.96 | 92.8 ± 0.7 |
| 1000 | 15 | 7.00 | 2.14 | 5.30 | 258 | 42.2 | 96.2 | 6.82 | 91.0 ± 0.4 |
| 1050 | 15 | 7.15 | 6.28 | 6.73 | 634 | 43.2 | 96.4 | 6.92 | 92.3 ± 0.4 |
| 1100 | 10 | 7.26 | 11.7 | 8.75 | 954 | 44.7 | 95.8 | 6.98 | 93.1 ± 0.3 |

CP-128 K-Feldspar (continued)

| Temp (°C) | Time (min) | $^{40}\text{Ar}/^{39}\text{Ar}$ | $^{37}\text{Ar}/^{39}\text{Ar}$ $\times 10^{-3}$ | $^{36}\text{Ar}/^{39}\text{Ar}$ $\times 10^{-4}$ | ^{39}Ar $\times 10^{-15}$ (mol) | % ^{39}Ar | % $^{40}\text{Ar}^*$ | $^{40}\text{Ar}^*/^{39}\text{Ar}_K$ | Age [†] (Ma) |
|--------------|---------------|---------------------------------|---|---|---|--------------------|----------------------|-------------------------------------|--------------------------|
| 1100 | 46 | 7.25 | 9.76 | 4.73 | 2880 | 49.2 | 97.6 | 7.09 | 94.5 ± 0.1 |
| 1100 | 25 | 7.27 | 7.99 | 6.15 | 1140 | 51.0 | 96.9 | 7.06 | 94.1 ± 0.2 |
| 1100 | 30 | 7.26 | 7.30 | 6.62 | 1180 | 52.8 | 96.7 | 7.03 | 93.7 ± 0.3 |
| 1050 | 35 | 7.22 | 5.71 | 4.02 | 516 | 53.6 | 97.4 | 7.08 | 94.4 ± 0.3 |
| 1000 | 50 | 7.20 | 1.82 | 0.000 | 286 | 54.1 | 98.9 | 7.20 | 95.9 ± 0.2 |
| 950 | 31 | 6.85 | 5.78 | 12.6 | 71.3 | 54.2 | 90.0 | 6.45 | 86.2 ± 1.3 |
| 850 | 768 | 7.90 | 3.53 | 16.7 | 175 | 54.5 | 92.3 | 7.38 | 98.3 ± 1.1 |
| 950 | 62 | 7.16 | 7.00 | 15.1 | 117 | 54.7 | 91.7 | 6.69 | 89.3 ± 2.0 |
| 1050 | 28 | 7.24 | 3.60 | 13.1 | 347 | 55.2 | 93.7 | 6.82 | 91.0 ± 0.9 |
| 1100 | 23 | 7.28 | 4.23 | 3.55 | 644 | 56.2 | 97.9 | 7.15 | 95.3 ± 0.5 |
| 1100 | 35 | 7.28 | 4.87 | 5.21 | 872 | 57.6 | 97.3 | 7.10 | 94.6 ± 0.5 |
| 1100 | 60 | 7.32 | 4.77 | 7.50 | 1290 | 59.6 | 96.5 | 7.07 | 94.2 ± 0.5 |
| 1100 | 90 | 7.37 | 5.00 | 5.45 | 1620 | 62.1 | 97.3 | 7.19 | 95.8 ± 0.2 |
| 1100 | 154 | 7.36 | 4.63 | 6.75 | 2200 | 65.6 | 96.8 | 7.13 | 95.0 ± 0.2 |
| 1100 | 210 | 7.39 | 4.17 | 7.42 | 2310 | 69.2 | 96.6 | 7.14 | 95.1 ± 0.1 |
| 1100 | 510 | 7.45 | 3.49 | 8.69 | 3510 | 74.6 | 96.1 | 7.17 | 95.5 ± 0.2 |
| 1100 | 600 | 7.54 | 2.91 | 12.7 | 3070 | 79.4 | 94.6 | 7.14 | 95.1 ± 0.2 |
| 1100 | 880 | 7.63 | 2.60 | 15.9 | 2680 | 83.6 | 93.4 | 7.13 | 95.0 ± 0.2 |
| 1200 | 30 | 7.53 | 1.90 | 8.89 | 2540 | 87.6 | 96.0 | 7.24 | 96.4 ± 0.1 |
| 1300 | 32 | 7.44 | 1.62 | 7.91 | 7490 | 99.3 | 96.5 | 7.18 | 95.7 ± 0.2 |
| 1550 | 12 | 8.20 | 2.64 | 25.4 | 483 | 100.0 | 90.3 | 7.42 | 98.8 ± 0.1 |

[†]K-Ar age = 92.7 Ma



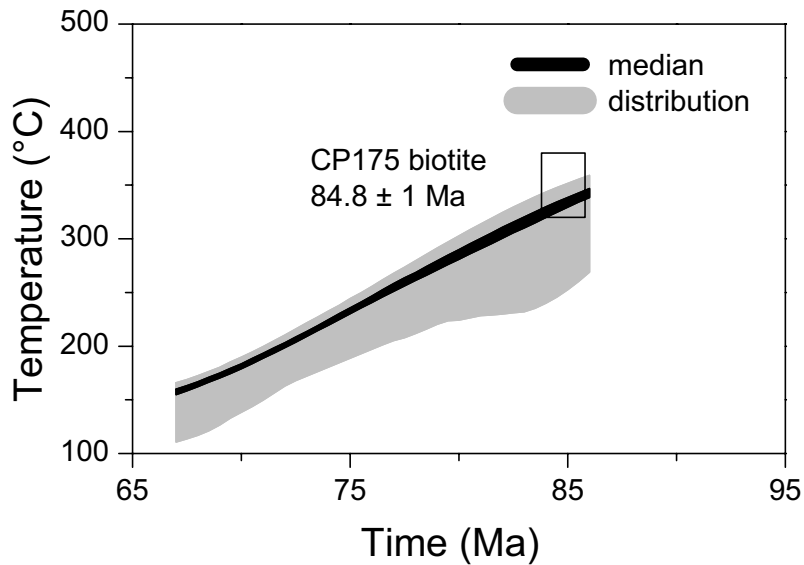
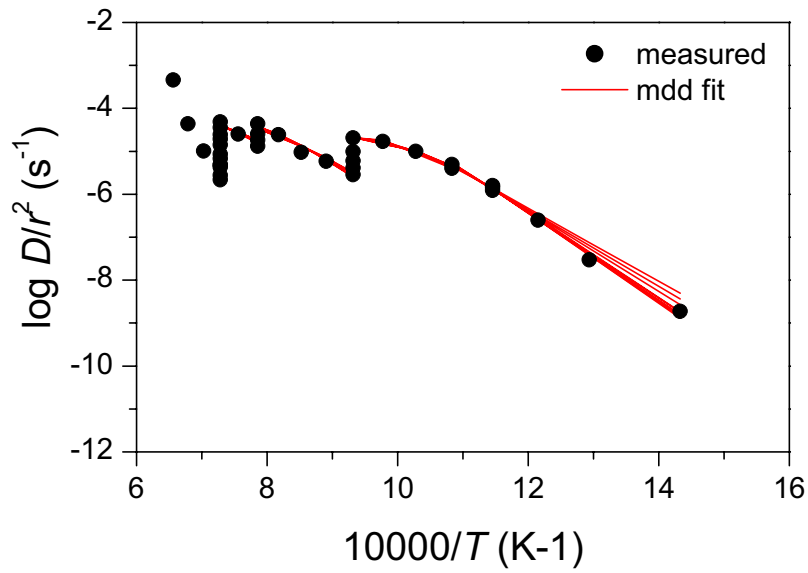
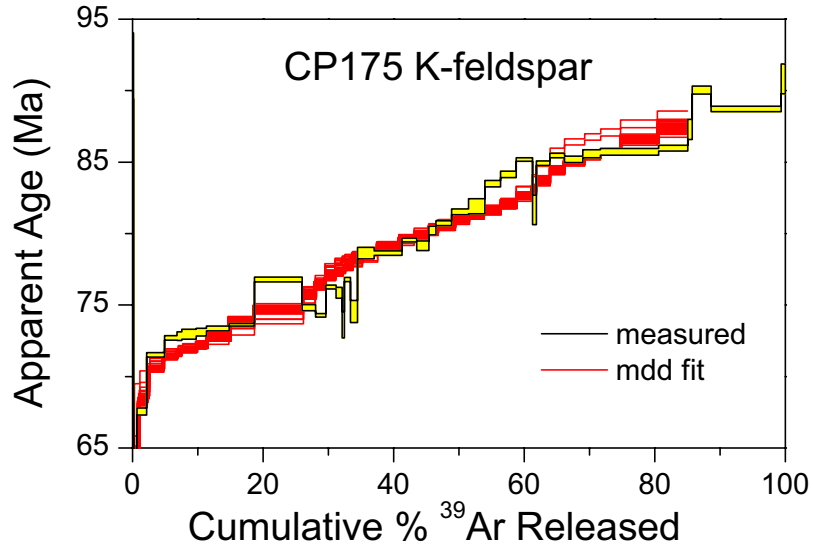
CP-175 K-Feldspar 205.4 mg J=0.0076151

| Temp (°C) | Time (min) | $^{40}\text{Ar}/^{39}\text{Ar}$ | $^{37}\text{Ar}/^{39}\text{Ar}$ $\times 10^{-3}$ | $^{36}\text{Ar}/^{39}\text{Ar}$ $\times 10^{-4}$ | ^{39}Ar $\times 10^{-15}$ (mol) | % ^{39}Ar | % $^{40}\text{Ar}^*$ | $^{40}\text{Ar}^*/^{39}\text{Ar}^*$ | Age [†] (Ma) |
|--------------|---------------|---------------------------------|---|---|---|--------------------|----------------------|-------------------------------------|--------------------------|
| 470 | 20 | 12.4 | 30.3 | 185 | 94.9 | 0.2 | 55.2 | 6.85 | 91.7 ± 2.3 |
| 500 | 20 | 5.01 | 11.6 | 22.4 | 297 | 0.7 | 86.0 | 4.33 | 58.5 ± 1.1 |
| 550 | 22 | 5.18 | 9.02 | 5.06 | 828 | 2.1 | 96.5 | 5.01 | 67.5 ± 0.3 |
| 500 | 4 | 5.23 | 11.2 | 6.45 | 230 | 2.4 | 95.5 | 5.02 | 67.7 ± 0.8 |
| 600 | 16 | 5.42 | 8.78 | 3.03 | 1540 | 5.0 | 97.8 | 5.31 | 71.5 ± 0.2 |
| 550 | 22 | 5.37 | 12.5 | 3.81 | 149 | 5.3 | 96.8 | 5.23 | 70.5 ± 0.5 |
| 600 | 24 | 5.45 | 7.79 | 0.891 | 1080 | 7.1 | 99.0 | 5.4 | 72.7 ± 0.2 |
| 600 | 10 | 5.46 | 7.19 | 0.827 | 430 | 7.8 | 98.9 | 5.41 | 72.8 ± 0.3 |
| 650 | 10 | 5.51 | 9.22 | 2.21 | 1220 | 9.8 | 98.3 | 5.42 | 73.0 ± 0.3 |
| 650 | 11 | 5.49 | 8.44 | 1.31 | 901 | 11.3 | 98.7 | 5.43 | 73.1 ± 0.3 |
| 700 | 12 | 5.52 | 10.7 | 1.54 | 1970 | 14.6 | 98.7 | 5.45 | 73.4 ± 0.2 |
| 750 | 10 | 5.53 | 13.9 | 1.24 | 2180 | 18.3 | 98.8 | 5.47 | 73.6 ± 0.1 |
| 800 | 21 | 5.77 | 20.5 | 1.20 | 4120 | 25.2 | 98.7 | 5.71 | 76.8 ± 0.2 |
| 800 | 15 | 5.62 | 19.4 | 0.968 | 1160 | 27.2 | 99.0 | 5.56 | 74.8 ± 0.2 |
| 800 | 20 | 5.63 | 20.6 | 2.87 | 889 | 28.6 | 98.0 | 5.52 | 74.3 ± 0.1 |
| 800 | 30 | 5.69 | 19.8 | 0.057 | 872 | 30.1 | 99.4 | 5.67 | 76.3 ± 0.1 |
| 800 | 27 | 5.70 | 18.4 | 1.21 | 523 | 31.0 | 98.8 | 5.64 | 75.9 ± 0.4 |
| 750 | 10 | 5.69 | 26.0 | 35.0 | 80.2 | 31.1 | 80.5 | 4.64 | 62.6 ± 5.2 |
| 700 | 32 | 5.97 | 16.8 | 3.64 | 58.0 | 31.2 | 96.7 | 5.84 | 78.5 ± 0.8 |
| 650 | 60 | 5.65 | 14.3 | 41.2 | 30.8 | 31.3 | 75.8 | 4.4 | 59.5 ± 5.9 |
| 600 | 240 | 6.48 | 32.8 | 54.3 | 29.1 | 31.3 | 72.9 | 4.85 | 65.4 ± 9.6 |
| 700 | 60 | 5.67 | 12.8 | 7.01 | 88.7 | 31.5 | 95.0 | 5.43 | 73.1 ± 1.8 |
| 800 | 10 | 5.69 | 21.5 | 6.48 | 191 | 31.8 | 95.8 | 5.47 | 73.6 ± 0.9 |
| 850 | 14 | 5.76 | 19.7 | 0.805 | 536 | 32.7 | 99.0 | 5.71 | 76.8 ± 0.2 |
| 900 | 10 | 5.81 | 17.9 | 8.45 | 597 | 33.7 | 95.1 | 5.54 | 74.5 ± 0.8 |
| 950 | 10 | 5.93 | 14.3 | 1.97 | 1450 | 36.1 | 98.4 | 5.85 | 78.6 ± 0.4 |
| 1000 | 10 | 5.94 | 10.3 | 2.28 | 2400 | 40.1 | 98.4 | 5.85 | 78.6 ± 0.2 |
| 1000 | 10 | 5.95 | 8.09 | 0.340 | 1270 | 42.3 | 99.3 | 5.92 | 79.5 ± 0.1 |
| 1000 | 12 | 5.99 | 8.59 | 2.42 | 1050 | 44.0 | 98.3 | 5.89 | 79.2 ± 0.3 |
| 900 | 33 | 6.02 | 8.08 | 3.01 | 345 | 44.6 | 97.9 | 5.91 | 79.4 ± 0.5 |
| 750 | 425 | 6.30 | 8.25 | 3.53 | 164 | 44.9 | 97.5 | 6.17 | 82.8 ± 0.8 |
| 850 | 30 | 5.94 | 12.1 | 19.4 | 87.7 | 45.0 | 89.1 | 5.34 | 71.9 ± 3.6 |
| 950 | 10 | 5.97 | 7.82 | 0.541 | 263 | 45.5 | 99.0 | 5.93 | 79.7 ± 0.2 |
| 1000 | 10 | 6.03 | 8.50 | 1.22 | 610 | 46.5 | 98.9 | 5.97 | 80.2 ± 0.3 |
| 1050 | 12 | 6.08 | 11.0 | 1.48 | 1360 | 48.8 | 98.8 | 6.01 | 80.7 ± 0.2 |
| 1100 | 7 | 6.16 | 14.6 | 2.36 | 1470 | 51.2 | 98.4 | 6.07 | 81.5 ± 0.2 |
| 1100 | 10 | 6.25 | 15.5 | 4.22 | 1390 | 53.6 | 97.6 | 6.1 | 81.9 ± 0.5 |
| 1100 | 15 | 6.27 | 14.8 | 0.804 | 1370 | 55.9 | 99.2 | 6.22 | 83.5 ± 0.2 |
| 1100 | 20 | 6.34 | 14.5 | 1.37 | 1350 | 58.1 | 98.9 | 6.27 | 84.1 ± 0.2 |
| 1100 | 30 | 6.44 | 14.2 | 2.24 | 1400 | 60.5 | 98.5 | 6.35 | 85.2 ± 0.1 |
| 1000 | 30 | 6.45 | 12.7 | 2.30 | 266 | 60.9 | 98.3 | 6.36 | 85.3 ± 0.3 |
| 900 | 60 | 6.63 | 23.9 | 24.7 | 87.4 | 61.1 | 87.9 | 5.88 | 79.0 ± 2.4 |
| 800 | 780 | 7.00 | 15.5 | 23.6 | 135 | 61.3 | 89.2 | 6.28 | 84.3 ± 2.0 |

CP-175 K-Feldspar (continued)

| Temp (°C) | Time (min) | $^{40}\text{Ar}/^{39}\text{Ar}$ | $^{37}\text{Ar}/^{39}\text{Ar}$ $\times 10^{-3}$ | $^{36}\text{Ar}/^{39}\text{Ar}$ $\times 10^{-4}$ | ^{39}Ar $\times 10^{-15}$ (mol) | % ^{39}Ar | % $^{40}\text{Ar}^*$ | $^{40}\text{Ar}^*/^{39}\text{Ar}_R$ | Age [†] (Ma) |
|--------------|---------------|---------------------------------|---|---|---|--------------------|----------------------|-------------------------------------|--------------------------|
| 950 | 62 | 6.48 | 13.2 | 12.1 | 129 | 61.5 | 93.5 | 6.09 | 81.8 ± 2.3 |
| 1000 | 45 | 6.35 | 7.49 | 4.78 | 268 | 62.0 | 97.1 | 6.19 | 83.1 ± 0.7 |
| 1050 | 15 | 6.35 | 8.20 | 5.48 | 217 | 62.3 | 96.7 | 6.17 | 82.8 ± 1.4 |
| 1100 | 12 | 6.36 | 8.52 | 8.55 | 330 | 62.9 | 95.4 | 6.08 | 81.7 ± 1.0 |
| 1100 | 45 | 6.41 | 11.8 | 2.14 | 1180 | 64.8 | 98.6 | 6.33 | 84.9 ± 0.2 |
| 1100 | 65 | 6.46 | 12.9 | 2.19 | 1260 | 67.0 | 98.6 | 6.37 | 85.5 ± 0.2 |
| 1100 | 123 | 6.47 | 13.0 | 3.51 | 1590 | 69.6 | 98.0 | 6.35 | 85.2 ± 0.2 |
| 1100 | 126 | 6.52 | 11.7 | 3.96 | 1510 | 72.2 | 97.8 | 6.38 | 85.6 ± 0.3 |
| 1100 | 205 | 6.55 | 10.3 | 4.51 | 1910 | 75.4 | 97.5 | 6.39 | 85.7 ± 0.2 |
| 1100 | 619 | 6.61 | 7.65 | 6.76 | 3110 | 80.6 | 96.6 | 6.39 | 85.7 ± 0.2 |
| 1050 | 184 | 6.76 | 6.16 | 13.8 | 416 | 81.3 | 93.4 | 6.33 | 84.9 ± 0.5 |
| 1000 | 270 | 6.84 | 2.83 | 8.10 | 222 | 81.6 | 95.8 | 6.58 | 88.2 ± 0.6 |
| 1100 | 817 | 6.71 | 4.91 | 9.41 | 2520 | 85.9 | 95.5 | 6.41 | 86.0 ± 0.2 |
| 1150 | 33 | 6.69 | 3.13 | 5.36 | 405 | 86.5 | 97.1 | 6.51 | 87.3 ± 0.7 |
| 1200 | 35 | 6.90 | 4.19 | 5.17 | 1610 | 89.2 | 97.4 | 6.72 | 90.0 ± 0.3 |
| 1250 | 42 | 6.90 | 2.57 | 8.54 | 6050 | 99.4 | 96.0 | 6.62 | 88.7 ± 0.2 |
| 1550 | 20 | 10.64 | -2.68 | 130 | 371 | 100.0 | 63.6 | 6.78 | 90.8 ± 1.0 |

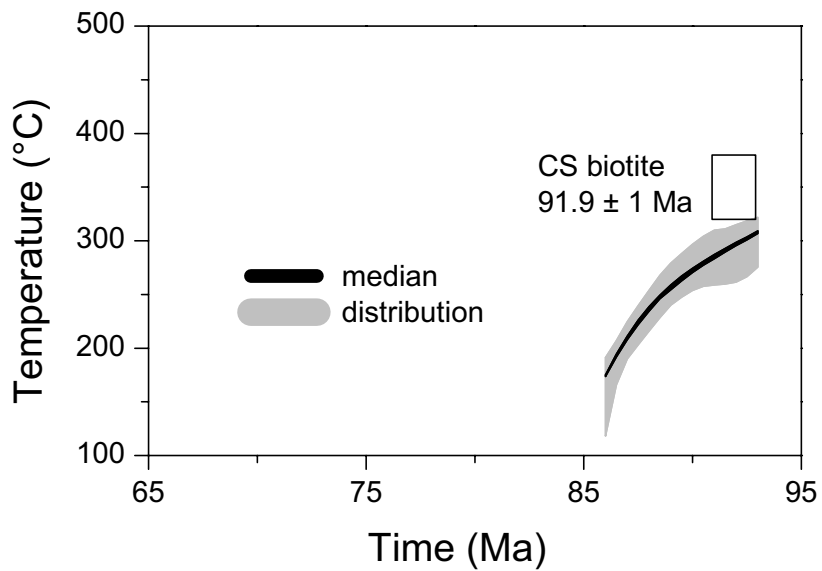
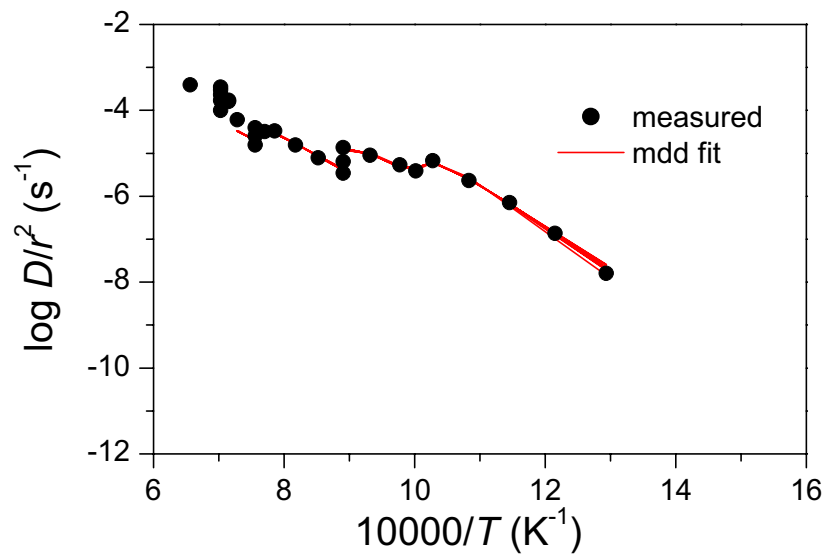
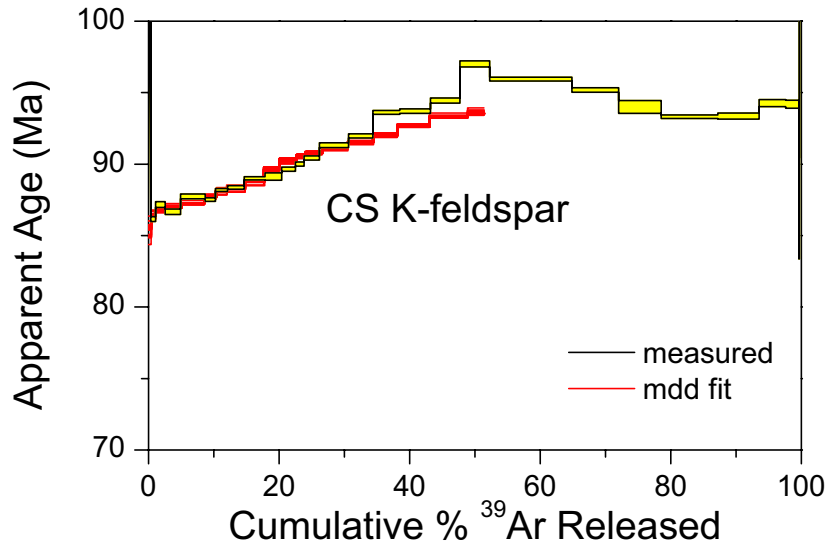
[†]K-Ar age = 80.8 Ma



CS K-Feldspar 252.9 mg J=0.007680

| Temp (°C) | Time (h) | $^{40}\text{Ar}/^{39}\text{Ar}$ | $^{37}\text{Ar}/^{39}\text{Ar}$ $\times 10^{-3}$ | $^{36}\text{Ar}/^{39}\text{Ar}$ $\times 10^{-4}$ | ^{39}Ar $\times 10^{-15}$ (mol) | % ^{39}Ar | % $^{40}\text{Ar}^*$ | $^{40}\text{Ar}^*/^{39}\text{Ar}^*$ | Age [†] (Ma) |
|--------------|-------------|---------------------------------|---|---|---|--------------------|----------------------|-------------------------------------|--------------------------|
| 500 | 10 | 12.76 | - | 105.2 | 68.75 | 0.345 | 75.26 | 9.64 | 128.8 ± 0.4 |
| 550 | 10 | 6.958 | - | 19.26 | 142.6 | 1.06 | 91.29 | 6.37 | 86.1 ± 0.2 |
| 600 | 10 | 6.785 | - | 10.78 | 291.3 | 2.53 | 94.88 | 6.45 | 87.2 ± 0.2 |
| 550 | 20 | 6.504 | - | 4.227 | 47.48 | 2.76 | 96.96 | 6.36 | 86.0 ± 0.8 |
| 650 | 10 | 6.535 | - | 3.606 | 463.2 | 5.09 | 97.97 | 6.41 | 86.7 ± 0.2 |
| 550 | 30 | 6.541 | - | 5.662 | 21.54 | 5.20 | 95.41 | 6.36 | 86.0 ± 0.5 |
| 700 | 10 | 6.581 | - | 2.431 | 741.0 | 8.92 | 98.55 | 6.49 | 87.7 ± 0.2 |
| 725 | 10 | 6.519 | - | 0.907 | 308.1 | 10.47 | 99.15 | 6.47 | 87.5 ± 0.1 |
| 750 | 10 | 6.570 | - | 0.920 | 360.7 | 12.28 | 99.17 | 6.52 | 88.2 ± 0.1 |
| 800 | 10 | 6.607 | - | 1.700 | 503.9 | 14.81 | 98.85 | 6.54 | 88.4 ± 0.1 |
| 850 | 10 | 6.674 | - | 2.306 | 621.9 | 17.94 | 98.61 | 6.59 | 89.0 ± 0.1 |
| 850 | 20 | 6.625 | - | 0.326 | 499.8 | 20.45 | 99.03 | 6.59 | 89.1 ± 0.3 |
| 850 | 35 | 6.708 | - | 1.795 | 418.9 | 22.55 | 98.80 | 6.63 | 89.6 ± 0.1 |
| 800 | 6 | 6.652 | - | 1.439 | 30.04 | 22.71 | 97.79 | 6.59 | 89.1 ± 0.3 |
| 750 | 15 | 6.684 | - | 2.337 | 18.50 | 22.80 | 96.66 | 6.60 | 89.2 ± 0.2 |
| 700 | 30 | 6.740 | - | 5.194 | 5.797 | 22.83 | 91.34 | 6.57 | 88.8 ± 0.5 |
| 650 | 35 | 7.743 | - | 1.254 | 1.828 | 22.84 | 0.00 | 0.00 | 0.0 ± 0.5 |
| 900 | 10 | 6.771 | - | 3.031 | 250.9 | 24.10 | 98.18 | 6.66 | 90.0 ± 0.1 |
| 950 | 10 | 6.824 | - | 3.693 | 464.1 | 26.43 | 97.98 | 6.69 | 90.4 ± 0.1 |
| 1000 | 10 | 6.948 | - | 5.611 | 873.0 | 30.82 | 97.24 | 6.76 | 91.3 ± 0.2 |
| 1025 | 10 | 7.081 | - | 8.481 | 733.3 | 34.50 | 96.08 | 6.81 | 92.0 ± 0.1 |
| 1050 | 10 | 7.288 | - | 11.23 | 811.4 | 38.58 | 95.08 | 6.94 | 93.6 ± 0.1 |
| 1050 | 20 | 7.291 | - | 11.09 | 919.6 | 43.20 | 95.13 | 6.94 | 93.7 ± 0.2 |
| 1050 | 35 | 7.271 | - | 8.512 | 890.8 | 47.67 | 96.13 | 7.00 | 94.4 ± 0.2 |
| 1000 | 6 | 7.276 | - | 10.33 | 77.81 | 48.06 | 94.82 | 6.95 | 93.8 ± 0.1 |
| 950 | 10 | 7.331 | - | 10.52 | 37.38 | 48.25 | 94.42 | 7.00 | 94.5 ± 0.6 |
| 900 | 15 | 7.678 | - | 17.52 | 20.45 | 48.35 | 91.50 | 7.14 | 96.3 ± 1.8 |
| 850 | 20 | 7.451 | - | 9.029 | 10.60 | 48.41 | 93.07 | 7.16 | 96.6 ± 0.3 |
| 800 | 30 | 7.833 | - | 12.33 | 5.636 | 48.44 | 89.80 | 7.45 | 100.4 ± 0.2 |
| 1100 | 10 | 7.489 | - | 9.293 | 895.0 | 52.93 | 95.94 | 7.19 | 97.0 ± 0.2 |
| 1125 | 13 | 7.375 | - | 8.175 | 2471 | 65.35 | 96.38 | 7.11 | 95.9 ± 0.1 |
| 1125 | 9 | 7.313 | - | 8.030 | 1404 | 72.40 | 96.36 | 7.05 | 95.2 ± 0.2 |
| 1150 | 6 | 7.148 | - | 5.499 | 1280 | 78.83 | 97.29 | 6.96 | 94.0 ± 0.4 |
| 1150 | 10 | 7.057 | - | 4.157 | 1700 | 87.37 | 97.85 | 6.91 | 93.3 ± 0.1 |
| 1150 | 20 | 7.065 | - | 4.330 | 1242 | 93.61 | 97.71 | 6.92 | 93.4 ± 0.2 |
| 1150 | 40 | 7.128 | - | 4.111 | 799.1 | 97.63 | 97.64 | 6.98 | 94.3 ± 0.2 |
| 1150 | 125 | 7.449 | - | 15.21 | 397.1 | 99.62 | 93.02 | 6.98 | 94.2 ± 0.3 |
| 1250 | 5 | 6.261 | - | 0.000 | 18.86 | 99.72 | 88.92 | 6.43 | 86.9 ± 3.5 |
| 1450 | 8 | 11.15 | - | 84.31 | 56.58 | 100.00 | 73.81 | 8.63 | 115.8 ± 3.1 |

[†]K-Ar age = 92.9 Ma



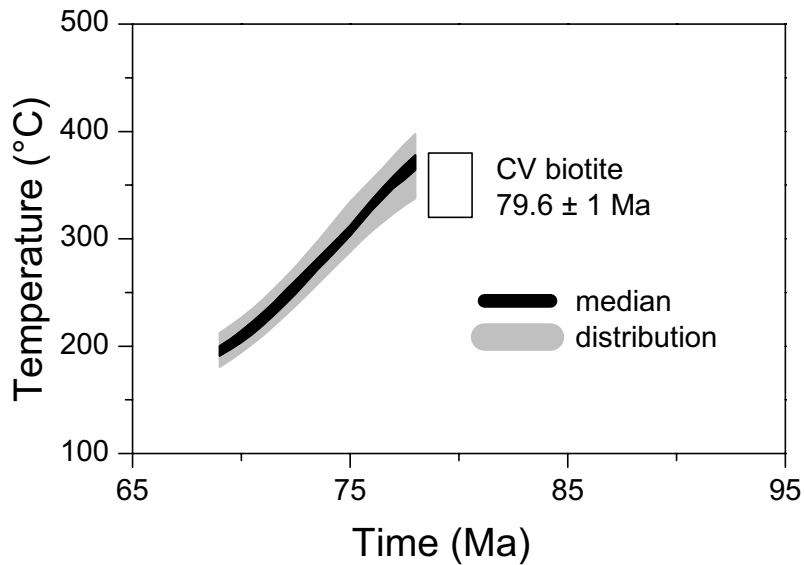
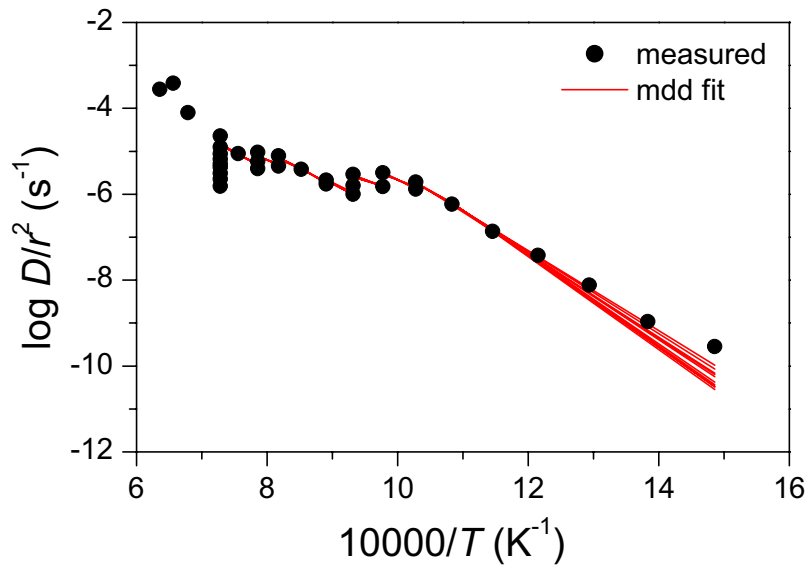
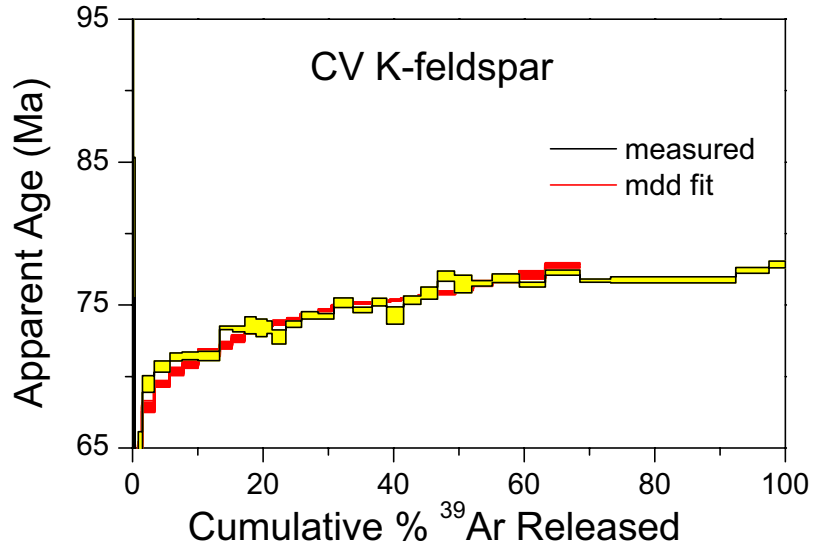
CV K-Feldspar 198.3 mg J=0.007583

| Temp (°C) | Time (h) | $^{40}\text{Ar}/^{39}\text{Ar}$ | $^{37}\text{Ar}/^{39}\text{Ar}$ $\times 10^{-3}$ | $^{36}\text{Ar}/^{39}\text{Ar}$ $\times 10^{-4}$ | ^{39}Ar $\times 10^{-15}$ (mol) | % ^{39}Ar | % $^{40}\text{Ar}^*$ | $^{40}\text{Ar}^*/^{39}\text{Ar}^*$ | Age [†] (Ma) |
|--------------|-------------|---------------------------------|---|---|---|--------------------|----------------------|-------------------------------------|--------------------------|
| 400 | 25 | 27.3 | 113 | 784 | 43.8 | 0.1 | 14.4 | 4.10 | 55.2 ± 14.5 |
| 450 | 18 | 14.3 | 91.7 | 254 | 41.2 | 0.1 | 43.7 | 6.79 | 90.6 ± 15.1 |
| 500 | 21 | 10.1 | 50.4 | 137 | 140 | 0.4 | 57.6 | 6.01 | 80.4 ± 4.9 |
| 550 | 22 | 5.65 | 37.6 | 39.4 | 301 | 0.9 | 76.8 | 4.46 | 60.1 ± 1.7 |
| 500 | 22 | 4.70 | 102 | 20.2 | 25.5 | 0.9 | 61.4 | 4.09 | 55.1 ± 8.6 |
| 600 | 14 | 5.69 | 36.9 | 28.8 | 367 | 1.5 | 82.7 | 4.82 | 64.7 ± 1.4 |
| 500 | 25 | 5.02 | 109 | 147 | 15.6 | 1.6 | 7.9 | 0.65 | 8.9 ± 14.4 |
| 650 | 20 | 5.68 | 33.4 | 16.2 | 1102 | 3.4 | 90.5 | 5.18 | 69.5 ± 0.6 |
| 700 | 15 | 5.58 | 30.8 | 9.65 | 1438 | 5.8 | 93.9 | 5.27 | 70.7 ± 0.4 |
| 700 | 25 | 5.43 | 29.4 | 2.93 | 1107 | 7.6 | 97.2 | 5.32 | 71.4 ± 0.3 |
| 750 | 18 | 5.48 | 32.4 | 4.45 | 1464 | 10.1 | 96.6 | 5.33 | 71.4 ± 0.3 |
| 750 | 66 | 5.49 | 32.1 | 4.96 | 1942 | 13.3 | 96.5 | 5.33 | 71.4 ± 0.3 |
| 800 | 26 | 5.51 | 34.6 | 0.486 | 1189 | 15.3 | 98.6 | 5.48 | 73.4 ± 0.1 |
| 800 | 51 | 5.52 | 32.9 | 1.01 | 1130 | 17.2 | 98.3 | 5.47 | 73.3 ± 0.2 |
| 800 | 80 | 5.61 | 27.0 | 3.40 | 1013 | 18.8 | 97.3 | 5.49 | 73.6 ± 0.6 |
| 750 | 31 | 6.08 | 20.4 | 34.8 | 86.6 | 19.0 | 78.3 | 5.03 | 67.6 ± 3.7 |
| 700 | 45 | 6.67 | 17.7 | 5.22 | 30.2 | 19.0 | 84.8 | 6.50 | 86.8 ± 2.2 |
| 600 | 660 | 24.2 | -45.9 | 552 | 23.1 | 19.1 | 30.7 | 7.81 | 103.7 ± 16.4 |
| 850 | 41 | 5.59 | 31.9 | 3.10 | 999 | 20.7 | 97.6 | 5.48 | 73.4 ± 0.6 |
| 850 | 25 | 5.61 | 28.1 | 3.88 | 470 | 21.5 | 96.7 | 5.48 | 73.5 ± 0.4 |
| 900 | 33 | 5.60 | 30.3 | 5.05 | 1263 | 23.6 | 96.6 | 5.43 | 72.8 ± 0.5 |
| 950 | 20 | 5.62 | 27.6 | 3.52 | 1429 | 26.0 | 97.5 | 5.50 | 73.7 ± 0.2 |
| 950 | 40 | 5.65 | 16.0 | 2.90 | 1505 | 28.5 | 97.8 | 5.54 | 74.3 ± 0.3 |
| 1000 | 20 | 5.71 | 17.3 | 5.02 | 1449 | 30.9 | 96.7 | 5.54 | 74.2 ± 0.2 |
| 1000 | 43 | 5.74 | 13.1 | 3.69 | 1741 | 33.8 | 97.5 | 5.61 | 75.2 ± 0.3 |
| 1000 | 70 | 5.84 | 12.8 | 8.19 | 1773 | 36.8 | 95.2 | 5.57 | 74.7 ± 0.2 |
| 950 | 10 | 6.40 | 21.9 | 20.6 | 85.2 | 36.9 | 86.2 | 5.77 | 77.2 ± 5.8 |
| 900 | 13 | 7.09 | 38.4 | 46.6 | 34.1 | 37.0 | 79.4 | 5.69 | 76.2 ± 8.1 |
| 850 | 20 | 7.21 | 6.30 | 69.6 | 16.9 | 37.0 | 59.0 | 5.13 | 68.9 ± 18.6 |
| 800 | 64 | 9.79 | -17.1 | 0.000 | 15.7 | 37.0 | 91.9 | 10.46 | 137.7 ± 31.9 |
| 1050 | 25 | 5.89 | 18.4 | 8.57 | 1315 | 39.2 | 95.0 | 5.61 | 75.2 ± 0.3 |
| 1100 | 12 | 5.91 | 20.4 | 11.7 | 1539 | 41.8 | 93.5 | 5.54 | 74.3 ± 0.6 |
| 1100 | 24 | 5.92 | 21.5 | 9.28 | 1583 | 44.4 | 94.7 | 5.62 | 75.3 ± 0.3 |
| 1100 | 35 | 5.97 | 21.3 | 9.69 | 1517 | 46.9 | 94.6 | 5.66 | 75.8 ± 0.4 |
| 1100 | 51 | 6.06 | 19.2 | 9.63 | 1551 | 49.5 | 94.7 | 5.75 | 77.0 ± 0.4 |
| 1100 | 70 | 6.18 | 19.6 | 15.1 | 1585 | 52.1 | 92.2 | 5.71 | 76.5 ± 0.6 |
| 1000 | 11 | 7.53 | 44.8 | 45.3 | 49.7 | 52.2 | 76.8 | 6.17 | 82.5 ± 4.2 |
| 950 | 15 | 7.68 | 44.7 | 73.6 | 25.4 | 52.3 | 63.3 | 5.49 | 73.6 ± 10.0 |
| 900 | 31 | 8.62 | 15.3 | 69.7 | 19.7 | 52.3 | 66.1 | 6.54 | 87.3 ± 17.5 |
| 800 | 400 | 17.6 | 29.2 | 404 | 35.3 | 52.4 | 30.9 | 5.66 | 75.8 ± 11.2 |
| 1100 | 108 | 6.19 | 16.9 | 15.4 | 1860 | 55.5 | 92.1 | 5.71 | 76.5 ± 0.2 |
| 1100 | 215 | 6.37 | 16.0 | 20.7 | 2467 | 59.6 | 89.9 | 5.74 | 76.9 ± 0.3 |
| 1100 | 310 | 6.62 | 15.1 | 30.3 | 2379 | 63.5 | 86.0 | 5.71 | 76.4 ± 0.2 |
| 1100 | 681 | 6.90 | 12.2 | 37.6 | 3153 | 68.8 | 83.5 | 5.77 | 77.3 ± 0.2 |
| 1200 | 14 | 6.15 | 6.21 | 13.4 | 2822 | 73.5 | 93.1 | 5.73 | 76.7 ± 0.1 |
| 1250 | 22 | 6.20 | 4.30 | 15.2 | 11427 | 92.5 | 92.4 | 5.73 | 76.8 ± 0.2 |

CV K-Feldspar (continued)

| Temp (°C) | Time (min) | $^{40}\text{Ar}/^{39}\text{Ar}$ | $^{37}\text{Ar}/^{39}\text{Ar}$ $\times 10^{-3}$ | $^{36}\text{Ar}/^{39}\text{Ar}$ $\times 10^{-4}$ | ^{39}Ar $\times 10^{-15}$ (mol) | % ^{39}Ar | % $^{40}\text{Ar}^*$ | $^{40}\text{Ar}^*/^{39}\text{Ar}_K$ | Age [†] (Ma) |
|--------------|---------------|---------------------------------|---|---|---|--------------------|----------------------|-------------------------------------|--------------------------|
| 1300 | 27 | 6.47 | 4.00 | 22.6 | 3021 | 97.5 | 89.2 | 5.78 | 77.4 ± 0.2 |
| 1550 | 12 | 8.19 | 8.08 | 79.8 | 1503 | 100.0 | 70.8 | 5.81 | 77.8 ± 0.2 |

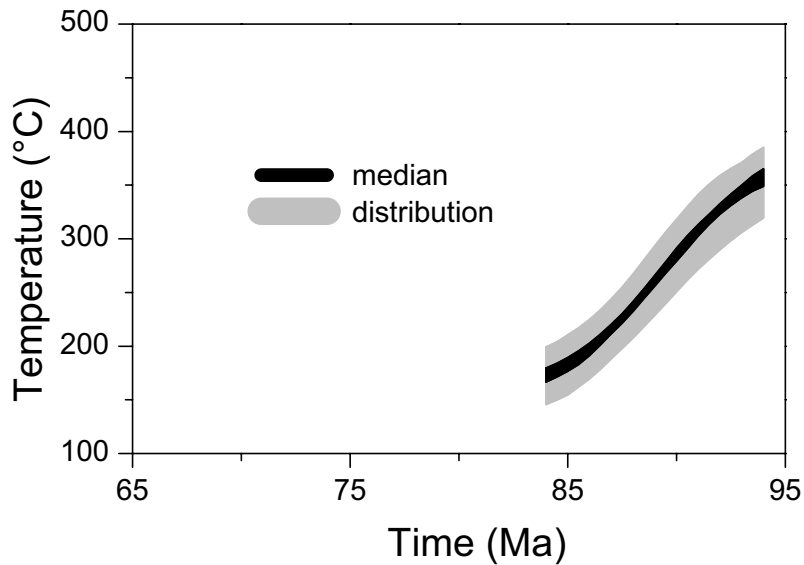
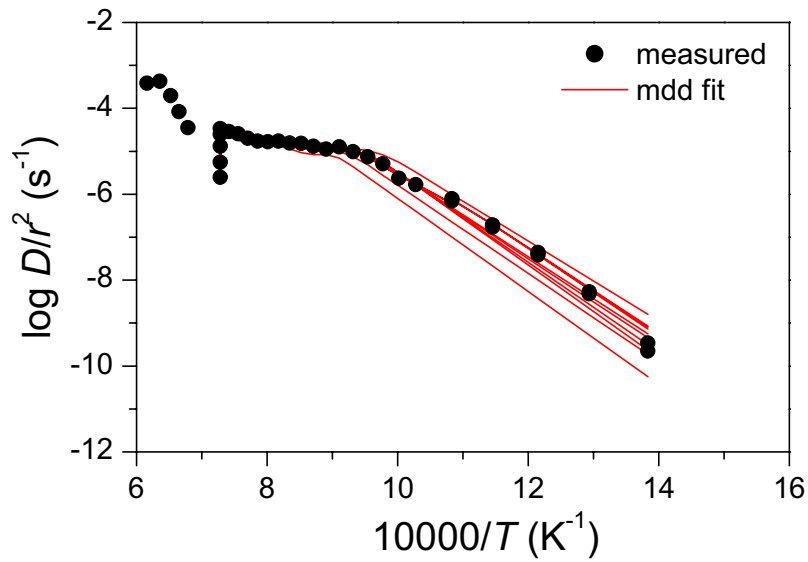
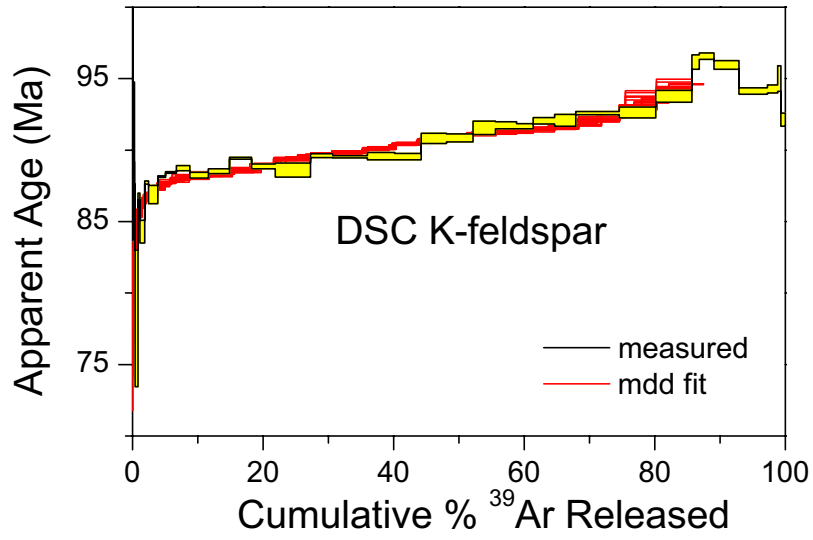
[†]K-Ar age = 75.2 Ma



DSC K-Feldspar 29.7 mg J=0.004220

| Temp (°C) | Time (min) | $^{40}\text{Ar}/^{39}\text{Ar}$ | $^{37}\text{Ar}/^{39}\text{Ar}$ $\times 10^{-3}$ | $^{36}\text{Ar}/^{39}\text{Ar}$ $\times 10^{-4}$ | ^{39}Ar $\times 10^{-15}$ (mol) | % ^{39}Ar | % $^{40}\text{Ar}^*$ | $^{40}\text{Ar}^*/^{39}\text{Ar}^*$ | Age [†] (Ma) |
|--------------|---------------|---------------------------------|---|---|---|--------------------|----------------------|-------------------------------------|--------------------------|
| 450 | 16 | 154.5 | 59.91 | 4682 | 2.376 | 0.0520 | 10.4 | 16.1 | 118.6 ± 34.9 |
| 450 | 15 | 38.53 | 96.27 | 681.7 | 1.332 | 0.0812 | 46.0 | 18.4 | 134.7 ± 26.7 |
| 500 | 19 | 18.51 | 0.7271 | 206.2 | 8.876 | 0.276 | 66.0 | 12.4 | 92.0 ± 2.8 |
| 500 | 20 | 11.99 | 2.573 | 14.70 | 5.522 | 0.396 | 92.7 | 11.5 | 85.7 ± 1.9 |
| 550 | 15 | 11.76 | 9.902 | 41.59 | 18.96 | 0.812 | 88.6 | 10.5 | 78.2 ± 4.8 |
| 550 | 20 | 11.69 | 5.144 | 0.0000 | 13.83 | 1.11 | 98.3 | 11.7 | 86.7 ± 0.2 |
| 600 | 15 | 12.26 | 36.05 | 30.63 | 33.72 | 1.85 | 92.0 | 11.3 | 84.3 ± 0.8 |
| 600 | 20 | 11.82 | 13.40 | 0.0000 | 27.71 | 2.46 | 99.1 | 11.8 | 87.7 ± 0.1 |
| 650 | 15 | 12.17 | 24.06 | 15.24 | 64.65 | 3.88 | 95.9 | 11.7 | 86.9 ± 0.6 |
| 650 | 20 | 11.88 | 18.71 | 0.0000 | 54.32 | 5.07 | 99.4 | 11.9 | 88.1 ± 0.1 |
| 700 | 15 | 11.88 | 18.71 | 0.0000 | 74.62 | 6.70 | 99.4 | 11.9 | 88.4 ± 0.1 |
| 725 | 18 | 11.99 | 21.15 | 0.518 | 94.80 | 8.78 | 99.4 | 11.9 | 88.7 ± 0.2 |
| 750 | 15 | 12.04 | 25.81 | 4.424 | 130.9 | 11.6 | 98.6 | 11.9 | 88.3 ± 0.2 |
| 775 | 15 | 12.06 | 28.90 | 4.077 | 145.7 | 14.8 | 98.7 | 11.9 | 88.5 ± 0.2 |
| 800 | 15 | 12.07 | 20.46 | 0.0573 | 155.5 | 18.2 | 99.7 | 12.0 | 89.4 ± 0.1 |
| 825 | 15 | 12.06 | 27.55 | 2.498 | 165.5 | 21.9 | 99.1 | 12.0 | 88.9 ± 0.2 |
| 850 | 31 | 12.11 | 22.25 | 5.419 | 246.7 | 27.3 | 98.4 | 11.9 | 88.6 ± 0.5 |
| 875 | 20 | 12.14 | 12.58 | 1.567 | 156.9 | 30.7 | 99.3 | 12.1 | 89.6 ± 0.1 |
| 900 | 30 | 12.13 | 14.36 | 1.593 | 240.6 | 36.0 | 99.3 | 12.1 | 89.5 ± 0.1 |
| 925 | 27 | 12.21 | 10.27 | 4.169 | 190.8 | 40.1 | 98.7 | 12.1 | 89.6 ± 0.3 |
| 950 | 26 | 12.26 | 16.31 | 5.893 | 185.5 | 44.2 | 98.3 | 12.1 | 89.5 ± 0.2 |
| 975 | 28 | 12.33 | 10.23 | 2.366 | 177.3 | 48.1 | 99.1 | 12.2 | 90.8 ± 0.4 |
| 1000 | 31 | 12.44 | 7.460 | 6.043 | 185.8 | 52.2 | 98.2 | 12.2 | 90.9 ± 0.3 |
| 1025 | 25 | 12.54 | 15.28 | 6.031 | 156.0 | 55.6 | 98.2 | 12.3 | 91.6 ± 0.5 |
| 1050 | 20 | 12.62 | 6.538 | 7.936 | 148.0 | 58.8 | 97.8 | 12.4 | 91.7 ± 0.2 |
| 1075 | 15 | 12.67 | 12.38 | 9.966 | 116.7 | 61.4 | 97.3 | 12.4 | 91.7 ± 0.2 |
| 1100 | 18 | 12.68 | 14.64 | 8.442 | 150.7 | 64.7 | 97.7 | 12.4 | 92.0 ± 0.2 |
| 1100 | 26 | 12.70 | 16.27 | 8.943 | 147.1 | 67.9 | 97.5 | 12.4 | 92.1 ± 0.4 |
| 1100 | 121 | 12.62 | 26.38 | 3.928 | 304.2 | 74.6 | 97.0 | 12.5 | 92.6 ± 0.1 |
| 1100 | 306 | 13.12 | 37.73 | 20.52 | 256.4 | 80.2 | 94.6 | 12.5 | 92.6 ± 0.4 |
| 1100 | 891 | 13.42 | 29.46 | 25.64 | 251.6 | 85.7 | 93.6 | 12.6 | 93.8 ± 0.4 |
| 1200 | 16 | 13.71 | 42.28 | 24.25 | 52.87 | 86.8 | 94.0 | 13.0 | 96.2 ± 0.5 |
| 1230 | 15 | 13.69 | 71.53 | 21.65 | 101.3 | 89.1 | 94.8 | 13.0 | 96.6 ± 0.2 |
| 1260 | 15 | 13.52 | 6.366 | 18.46 | 176.3 | 92.9 | 95.6 | 12.9 | 96.0 ± 0.3 |
| 1300 | 15 | 13.24 | 1.459 | 17.78 | 197.4 | 97.2 | 95.7 | 12.7 | 94.1 ± 0.2 |
| 1350 | 15 | 13.20 | 2.043 | 15.48 | 72.04 | 98.8 | 95.6 | 12.7 | 94.3 ± 0.3 |
| 1500 | 15 | 13.55 | 11.34 | 24.01 | 21.79 | 99.3 | 90.9 | 12.8 | 95.0 ± 0.9 |
| 1550 | 16 | 12.98 | 17.75 | 18.25 | 32.31 | 100 | 92.4 | 12.4 | 92.1 ± 0.5 |

[†]K-Ar age = 91.1 Ma



EMKSP K-Feldspar 239.4 mg J=0.007750

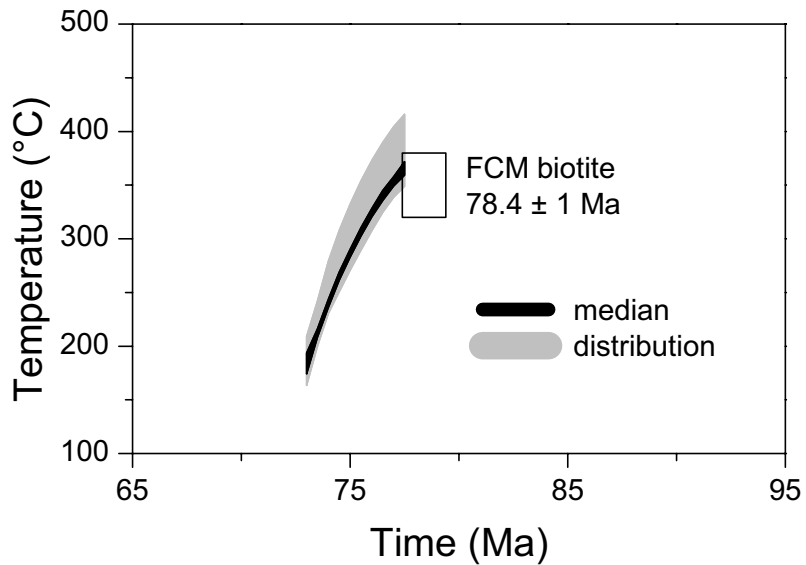
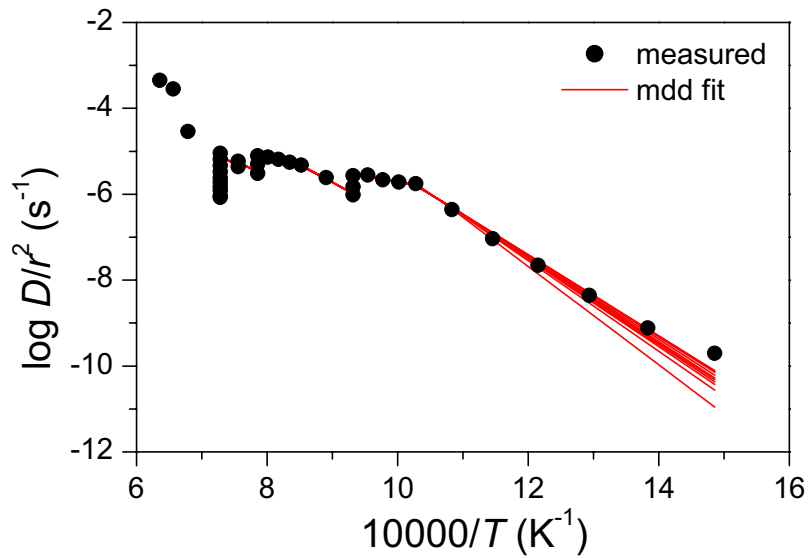
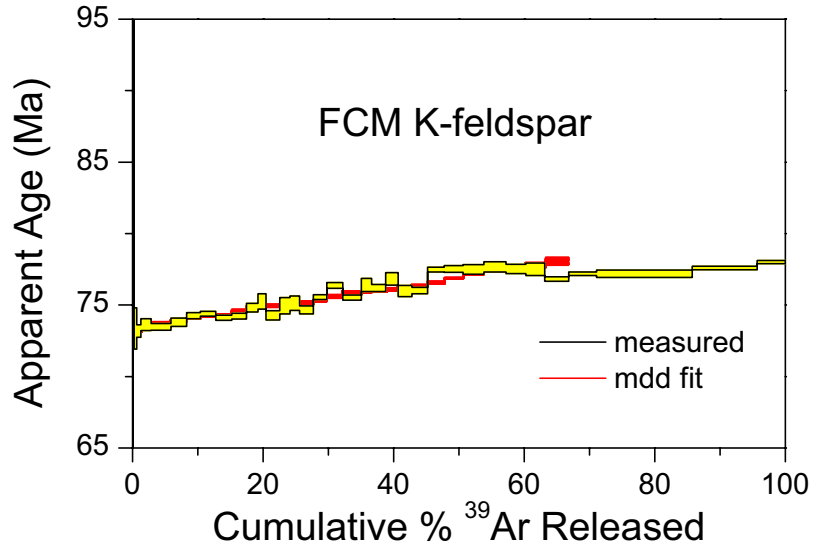
| Power (Amps) | Time (min) | $^{40}\text{Ar}/^{39}\text{Ar}$ | $^{37}\text{Ar}/^{39}\text{Ar}$ $\times 10^{-3}$ | $^{36}\text{Ar}/^{39}\text{Ar}$ $\times 10^{-4}$ | ^{39}Ar $\times 10^{-15}$ (mol) | % ^{39}Ar | % $^{40}\text{Ar}^*$ | $^{40}\text{Ar}^*/^{39}\text{Ar}^*$ | Age [†] (Ma) |
|-----------------|---------------|---------------------------------|---|---|---|--------------------|----------------------|-------------------------------------|--------------------------|
| 0.65 | 3 | 7.25 | 12.78 | 31.41 | 142.1 | 0.879 | 86.8 | 6.30 | 86.1 ± 0.2 |
| 0.65 | 8 | 6.55 | 2.656 | 6.640 | 273.4 | 2.57 | 96.6 | 6.33 | 86.4 ± 0.2 |
| 0.65 | 18 | 6.50 | 5.533 | 1.879 | 918.7 | 8.25 | 98.8 | 6.42 | 87.6 ± 0.1 |
| 0.70 | 10 | 6.61 | 8.310 | 1.801 | 1289 | 16.2 | 98.9 | 6.54 | 89.2 ± 0.1 |
| 0.70 | 15 | 6.62 | 63.94 | 0.8424 | 936.9 | 22.0 | 99.4 | 6.58 | 89.7 ± 0.1 |
| 0.70 | 20 | 6.65 | 49.32 | 0.7597 | 662.6 | 26.1 | 99.4 | 6.61 | 90.2 ± 0.1 |
| 0.75 | 10 | 6.68 | 2.044 | 1.474 | 444.1 | 28.9 | 99.0 | 6.62 | 90.2 ± 0.2 |
| 0.75 | 20 | 6.70 | 2.253 | 1.446 | 483.5 | 31.9 | 99.0 | 6.63 | 90.4 ± 0.2 |
| 0.80 | 10 | 6.72 | 1.090 | 2.340 | 333.2 | 33.9 | 98.6 | 6.63 | 90.4 ± 0.6 |
| 0.85 | 20 | 6.73 | 2.778 | 2.363 | 392.0 | 36.3 | 98.6 | 6.64 | 90.5 ± 0.1 |
| 0.85 | 10 | 6.83 | 0.3202 | 5.003 | 566.9 | 39.8 | 97.5 | 6.66 | 90.9 ± 0.1 |
| 0.85 | 20 | 6.89 | 0.3188 | 5.686 | 569.5 | 43.4 | 97.2 | 6.70 | 91.3 ± 0.1 |
| 0.90 | 10 | 7.03 | 1.010 | 8.877 | 359.4 | 45.6 | 95.9 | 6.74 | 91.9 ± 0.1 |
| 0.90 | 20 | 7.07 | 0.9572 | 8.958 | 569.0 | 49.1 | 95.9 | 6.78 | 92.4 ± 0.2 |
| 0.95 | 10 | 7.20 | 2.420 | 11.72 | 600.3 | 52.8 | 94.8 | 6.83 | 93.0 ± 0.1 |
| 0.95 | 20 | 7.19 | 1.277 | 11.38 | 568.7 | 56.3 | 95.0 | 6.83 | 93.0 ± 0.1 |
| 1.00 | 10 | 7.24 | 1.412 | 10.98 | 385.7 | 58.7 | 95.1 | 6.89 | 93.9 ± 0.1 |
| 1.00 | 20 | 7.24 | 3.854 | 11.15 | 659.5 | 62.8 | 95.1 | 6.89 | 93.8 ± 0.1 |
| 1.10 | 10 | 7.27 | 0.0000 | 10.47 | 619.0 | 66.6 | 95.4 | 6.94 | 94.5 ± 0.2 |
| 1.05 | 20 | 7.28 | 0.6026 | 10.44 | 1205 | 74.1 | 95.4 | 6.95 | 94.6 ± 0.2 |
| 1.10 | 10 | 7.22 | 0.1207 | 9.448 | 1504 | 83.4 | 95.8 | 6.92 | 94.3 ± 0.1 |
| 1.10 | 12 | 7.19 | 0.1846 | 9.639 | 983.4 | 89.5 | 95.7 | 6.89 | 93.8 ± 0.1 |
| 1.10 | 20 | 7.19 | 1.237 | 9.986 | 880.4 | 94.9 | 95.5 | 6.87 | 93.6 ± 0.1 |
| 1.20 | 15 | 7.17 | 1.623 | 9.526 | 559.2 | 98.4 | 95.6 | 6.87 | 93.6 ± 0.2 |
| 1.25 | 10 | 7.20 | 0.0000 | 9.393 | 197.2 | 99.6 | 95.3 | 6.90 | 94.0 ± 0.2 |
| 1.25 | 15 | 7.25 | 51.35 | 8.839 | 67.17 | 100 | 94.5 | 6.96 | 94.7 ± 0.1 |

[†]K-Ar age = 91.9 Ma

FCM K-Feldspar 204.8 mg J=0.007682

| Temp (°C) | Time (h) | $^{40}\text{Ar}/^{39}\text{Ar}$ | $^{37}\text{Ar}/^{39}\text{Ar}$ $\times 10^{-3}$ | $^{36}\text{Ar}/^{39}\text{Ar}$ $\times 10^{-4}$ | ^{39}Ar $\times 10^{-15}$ (mol) | % ^{39}Ar | % $^{40}\text{Ar}^*$ | $^{40}\text{Ar}^*/^{39}\text{Ar}^*$ | Age ¹ (Ma) |
|--------------|-------------|---------------------------------|---|---|---|--------------------|----------------------|-------------------------------------|--------------------------|
| 400 | 15 | 52.1 | 256 | 1587 | 30.8 | 0.0 | 9.9 | 5.21 | 70.8 ± 11.8 |
| 450 | 15 | 48.4 | 220 | 1152 | 37.4 | 0.1 | 29.4 | 14.32 | 188.2 ± 16.4 |
| 500 | 15 | 25.7 | 112.84 | 578 | 93.1 | 0.2 | 33.4 | 8.62 | 115.6 ± 5.0 |
| 550 | 19 | 10.1 | 85.4 | 157 | 239 | 0.6 | 53.5 | 5.40 | 73.4 ± 1.4 |
| 500 | 20 | 7.44 | 217 | 184 | 23.2 | 0.6 | 25.6 | 2.01 | 27.7 ± 14.5 |
| 600 | 17 | 7.36 | 120 | 66.4 | 415 | 1.3 | 73.0 | 5.39 | 73.2 ± 0.4 |
| 650 | 20 | 6.34 | 93.7 | 30.6 | 1045 | 2.9 | 85.4 | 5.42 | 73.6 ± 0.4 |
| 700 | 20 | 5.80 | 49.8 | 12.4 | 1976 | 5.9 | 93.3 | 5.41 | 73.5 ± 0.2 |
| 725 | 23 | 5.59 | 24.2 | 4.60 | 1542 | 8.3 | 97.1 | 5.44 | 73.8 ± 0.3 |
| 750 | 24 | 5.59 | 24.7 | 3.41 | 1368 | 10.3 | 97.7 | 5.47 | 74.3 ± 0.2 |
| 775 | 26 | 5.59 | 27.7 | 2.86 | 1547 | 12.7 | 98.0 | 5.48 | 74.4 ± 0.2 |
| 800 | 33 | 5.58 | 29.6 | 3.43 | 1580 | 15.1 | 97.7 | 5.46 | 74.1 ± 0.2 |
| 800 | 65 | 5.56 | 26.0 | 2.36 | 1454 | 17.4 | 98.2 | 5.47 | 74.2 ± 0.2 |
| 800 | 90 | 5.60 | 23.4 | 2.15 | 1165 | 19.1 | 98.3 | 5.51 | 74.8 ± 0.3 |
| 750 | 25 | 5.99 | 17.6 | 10.4 | 74.8 | 19.2 | 92.4 | 5.65 | 76.7 ± 4.5 |
| 700 | 51 | 6.02 | -4.30 | 36.2 | 34.5 | 19.3 | 78.1 | 4.92 | 67.0 ± 8.7 |
| 600 | 588 | 21.4 | 75.2 | 604 | 18.6 | 19.3 | 16.2 | 3.56 | 48.7 ± 19.9 |
| 850 | 26 | 5.66 | 22.7 | 3.08 | 785 | 20.5 | 97.8 | 5.55 | 75.3 ± 0.5 |
| 900 | 25 | 5.66 | 21.1 | 5.56 | 1381 | 22.6 | 96.6 | 5.47 | 74.3 ± 0.3 |
| 925 | 17 | 5.65 | 15.1 | 3.52 | 1008 | 24.2 | 97.6 | 5.52 | 75.0 ± 0.6 |
| 950 | 15 | 5.68 | 14.1 | 4.04 | 960 | 25.6 | 97.3 | 5.54 | 75.1 ± 0.5 |
| 975 | 20 | 5.69 | 12.5 | 5.50 | 1362 | 27.7 | 96.6 | 5.50 | 74.7 ± 0.3 |
| 1000 | 20 | 5.71 | 13.7 | 3.94 | 1344 | 29.8 | 97.4 | 5.57 | 75.5 ± 0.2 |
| 1000 | 40 | 5.71 | 13.1 | 1.95 | 1602 | 32.2 | 98.5 | 5.63 | 76.4 ± 0.2 |
| 1000 | 81 | 5.74 | 14.9 | 5.26 | 1824 | 35.0 | 96.8 | 5.57 | 75.5 ± 0.2 |
| 950 | 22 | 5.89 | 18.8 | 9.43 | 184 | 35.3 | 94.0 | 5.59 | 75.8 ± 3.4 |
| 900 | 20 | 6.21 | -5.60 | 1.57 | 46.4 | 35.4 | 95.5 | 6.14 | 83.2 ± 1.4 |
| 850 | 22 | 6.10 | 60.8 | 39.7 | 16.7 | 35.4 | 73.3 | 4.91 | 66.8 ± 16.3 |
| 800 | 50 | 6.29 | 97.2 | 105 | 11.5 | 35.4 | 44.2 | 3.16 | 43.3 ± 38.0 |
| 1050 | 25 | 5.97 | 26.3 | 10.7 | 1018 | 37.0 | 94.2 | 5.63 | 76.4 ± 0.5 |
| 1050 | 50 | 5.83 | 25.7 | 6.61 | 1426 | 39.1 | 96.2 | 5.62 | 76.2 ± 0.3 |
| 1100 | 22 | 5.98 | 45.0 | 10.0 | 1228 | 41.0 | 94.6 | 5.66 | 76.8 ± 0.4 |
| 1100 | 36 | 5.90 | 42.0 | 9.56 | 1382 | 43.1 | 94.8 | 5.60 | 76.0 ± 0.4 |
| 1100 | 60 | 5.90 | 36.5 | 9.26 | 1551 | 45.5 | 94.9 | 5.60 | 76.0 ± 0.2 |
| 1100 | 94 | 5.91 | 29.2 | 6.01 | 1670 | 48.1 | 96.5 | 5.71 | 77.5 ± 0.2 |
| 1100 | 151 | 5.96 | 25.0 | 7.66 | 1864 | 50.9 | 95.8 | 5.72 | 77.5 ± 0.2 |
| 1100 | 240 | 6.06 | 19.7 | 11.1 | 2064 | 54.1 | 94.1 | 5.71 | 77.5 ± 0.3 |
| 1100 | 350 | 6.12 | 15.8 | 12.6 | 2213 | 57.4 | 93.5 | 5.73 | 77.7 ± 0.3 |
| 1100 | 410 | 6.19 | 12.6 | 15.4 | 1974 | 60.5 | 92.2 | 5.72 | 77.5 ± 0.3 |
| 1100 | 560 | 6.32 | 10.7 | 31.2 | 1867 | 63.3 | 90.4 | 5.71 | 77.5 ± 0.4 |
| 1100 | 850 | 6.44 | 9.00 | 25.4 | 2395 | 67.0 | 87.9 | 5.66 | 76.8 ± 0.2 |
| 1200 | 32 | 6.34 | 6.45 | 21.2 | 2760 | 71.2 | 89.7 | 5.69 | 77.2 ± 0.1 |
| 1250 | 17 | 6.25 | 2.63 | 18.1 | 9521 | 85.7 | 91.0 | 5.69 | 77.2 ± 0.3 |
| 1300 | 18 | 6.38 | 2.14 | 21.5 | 6476 | 95.6 | 89.7 | 5.72 | 77.6 ± 0.1 |
| 1550 | 20 | 7.47 | 4.11 | 57.5 | 2800 | 100.0 | 76.9 | 5.75 | 78.0 ± 0.1 |
| 1550 | 20 | 40.7 | 8.11 | 1208 | 48.5 | 100.0 | 12.1 | 4.95 | 67.3 ± 7.2 |

¹K-Ar age = 76.4 Ma



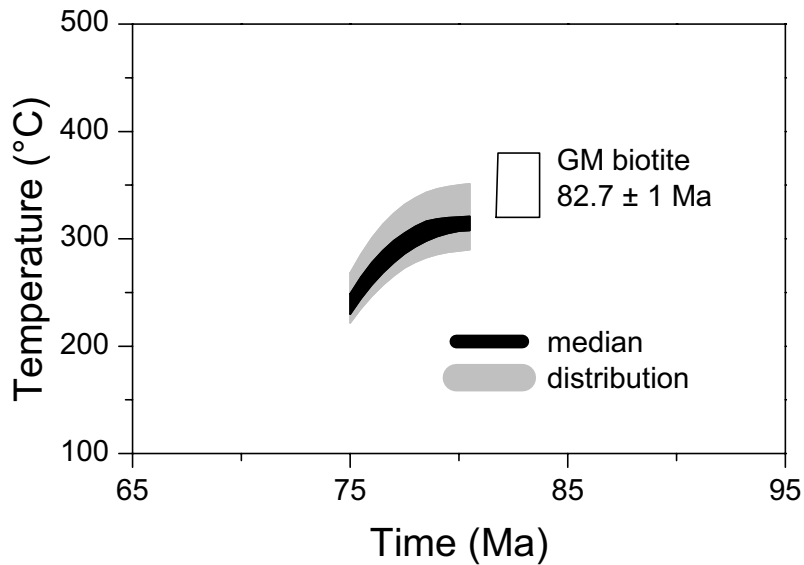
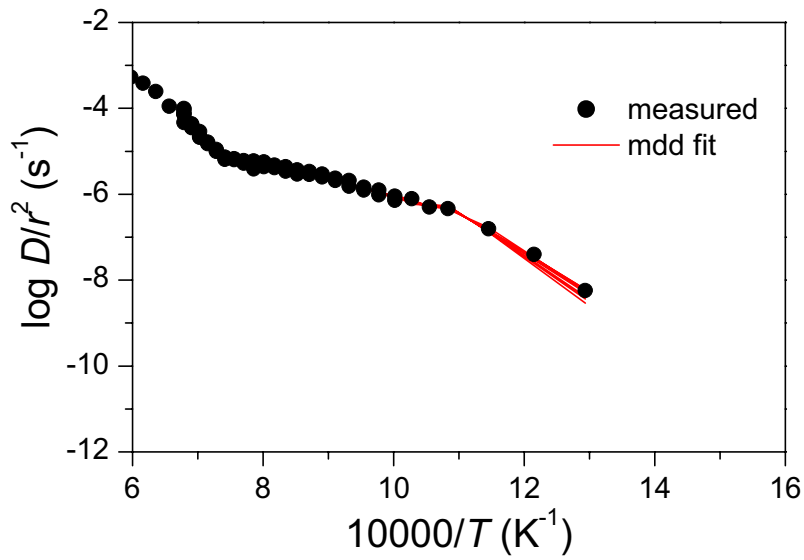
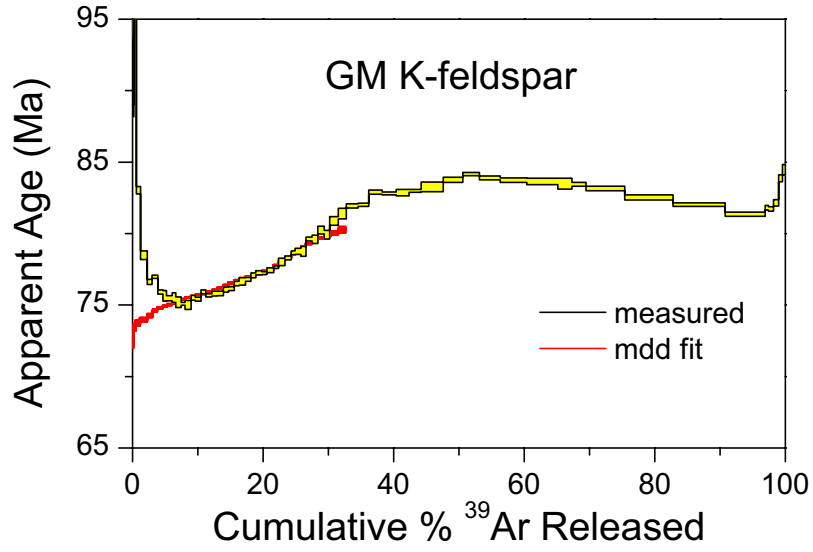
GM K-Feldspar 198.1 mg J=0.007750

| Temp (°C) | Time (h) | $^{40}\text{Ar}/^{39}\text{Ar}$ | $^{37}\text{Ar}/^{39}\text{Ar}$ $\times 10^{-3}$ | $^{36}\text{Ar}/^{39}\text{Ar}$ $\times 10^{-4}$ | ^{39}Ar $\times 10^{-15}$ (mol) | % ^{39}Ar | % $^{40}\text{Ar}^*$ | $^{40}\text{Ar}^*/^{39}\text{Ar}^*$ | Age [†] (Ma) |
|--------------|-------------|---------------------------------|---|---|---|--------------------|----------------------|-------------------------------------|--------------------------|
| 500 | 10 | 9.14 | 2562 | 96.31 | 30.15 | 0.21 | 70.29 | 6.49 | 88.6 ± 0.4 |
| 550 | 10 | 8.41 | 1055 | 47.14 | 54.92 | 0.59 | 83.72 | 7.09 | 96.5 ± 0.2 |
| 600 | 10 | 6.55 | 613.6 | 16.86 | 94.43 | 1.24 | 92.39 | 6.08 | 83.0 ± 0.3 |
| 650 | 10 | 5.94 | 532.1 | 7.528 | 145.2 | 2.24 | 96.27 | 5.74 | 78.5 ± 0.3 |
| 675 | 10 | 5.65 | 726.9 | 3.123 | 106.3 | 2.98 | 98.56 | 5.60 | 76.6 ± 0.2 |
| 700 | 10 | 5.69 | 764.7 | 3.460 | 126.3 | 3.85 | 98.51 | 5.62 | 77.0 ± 0.1 |
| 725 | 10 | 5.59 | 495.9 | 2.167 | 116.9 | 4.66 | 98.73 | 5.55 | 75.9 ± 0.2 |
| 725 | 10 | 5.53 | 713.6 | 1.502 | 81.19 | 5.22 | 99.23 | 5.53 | 75.7 ± 0.4 |
| 750 | 10 | 5.55 | 476.7 | 1.867 | 121.5 | 6.06 | 98.87 | 5.51 | 75.5 ± 0.2 |
| 750 | 10 | 5.54 | 460.7 | 1.142 | 83.84 | 6.64 | 99.05 | 5.52 | 75.5 ± 0.3 |
| 775 | 10 | 5.51 | 505.6 | 1.293 | 114.6 | 7.43 | 99.19 | 5.49 | 75.2 ± 0.4 |
| 775 | 10 | 5.52 | 217.0 | 0.7807 | 88.99 | 8.04 | 98.90 | 5.48 | 75.1 ± 0.1 |
| 800 | 10 | 5.51 | 285.6 | 1.096 | 135.3 | 8.98 | 99.01 | 5.48 | 75.0 ± 0.3 |
| 800 | 10 | 5.52 | 424.2 | 0.4747 | 91.06 | 9.61 | 99.39 | 5.52 | 75.5 ± 0.2 |
| 825 | 10 | 5.54 | 301.0 | 0.9505 | 128.3 | 10.49 | 99.10 | 5.51 | 75.4 ± 0.1 |
| 825 | 10 | 5.58 | 183.2 | 0.6590 | 105.4 | 11.22 | 99.00 | 5.55 | 75.9 ± 0.1 |
| 850 | 10 | 5.56 | 278.1 | 0.8779 | 138.9 | 12.18 | 99.13 | 5.53 | 75.7 ± 0.1 |
| 850 | 10 | 5.55 | 348.1 | 0.6260 | 111.0 | 12.95 | 99.29 | 5.54 | 75.8 ± 0.2 |
| 875 | 10 | 5.57 | 138.5 | 0.6866 | 139.4 | 13.91 | 99.02 | 5.54 | 75.8 ± 0.2 |
| 875 | 10 | 5.58 | 171.9 | 0.3849 | 112.3 | 14.69 | 99.16 | 5.56 | 76.1 ± 0.2 |
| 900 | 10 | 5.60 | 0.00 | 0.3235 | 133.7 | 15.61 | 98.99 | 5.56 | 76.2 ± 0.1 |
| 900 | 10 | 5.61 | 189.3 | 0.1665 | 102.1 | 16.31 | 99.26 | 5.59 | 76.5 ± 0.1 |
| 925 | 10 | 5.63 | 135.1 | 0.4861 | 142.9 | 17.30 | 99.14 | 5.60 | 76.7 ± 0.3 |
| 925 | 10 | 5.64 | 157.1 | 0.3516 | 123.0 | 18.15 | 99.19 | 5.61 | 76.8 ± 0.1 |
| 925 | 10 | 5.66 | 188.1 | 0.4210 | 102.7 | 18.86 | 99.13 | 5.63 | 77.1 ± 0.2 |
| 950 | 10 | 5.66 | 284.1 | 0.5110 | 136.0 | 19.80 | 99.34 | 5.65 | 77.3 ± 0.2 |
| 950 | 10 | 5.67 | 170.9 | 0.6146 | 113.0 | 20.58 | 99.05 | 5.64 | 77.2 ± 0.1 |
| 975 | 10 | 5.70 | 131.1 | 0.8276 | 147.4 | 21.60 | 98.98 | 5.66 | 77.4 ± 0.2 |
| 975 | 10 | 5.71 | 175.8 | 0.8713 | 109.9 | 22.36 | 98.92 | 5.68 | 77.7 ± 0.1 |
| 1000 | 10 | 5.76 | 134.2 | 1.394 | 144.0 | 23.35 | 98.70 | 5.70 | 78.0 ± 0.3 |
| 1000 | 12 | 5.76 | 284.6 | 1.285 | 135.7 | 24.29 | 98.96 | 5.72 | 78.3 ± 0.1 |
| 1000 | 10 | 5.80 | 223.8 | 1.413 | 86.31 | 24.89 | 98.62 | 5.75 | 78.7 ± 0.1 |
| 1025 | 10 | 5.84 | 146.3 | 2.316 | 132.0 | 25.80 | 98.24 | 5.76 | 78.8 ± 0.2 |
| 1025 | 10 | 5.84 | 172.8 | 2.265 | 111.8 | 26.57 | 98.24 | 5.76 | 78.8 ± 0.3 |
| 1050 | 10 | 5.92 | 140.4 | 2.666 | 137.6 | 27.52 | 98.03 | 5.82 | 79.6 ± 0.1 |
| 1050 | 10 | 5.93 | 152.7 | 3.107 | 126.5 | 28.39 | 97.80 | 5.82 | 79.6 ± 0.3 |
| 1075 | 10 | 6.00 | 139.2 | 4.093 | 138.8 | 29.35 | 97.33 | 5.87 | 80.2 ± 0.3 |
| 1075 | 10 | 5.94 | 161.6 | 2.775 | 119.6 | 30.18 | 97.92 | 5.85 | 79.9 ± 0.3 |
| 1100 | 10 | 6.07 | 98.12 | 4.574 | 196.8 | 31.54 | 97.16 | 5.92 | 80.9 ± 0.3 |
| 1100 | 10 | 6.11 | 225.7 | 4.953 | 171.2 | 32.72 | 97.13 | 5.95 | 81.4 ± 0.4 |
| 1125 | 10 | 6.18 | 144.1 | 5.579 | 268.0 | 34.57 | 96.86 | 6.00 | 81.9 ± 0.1 |
| 1125 | 10 | 6.19 | 82.84 | 5.888 | 233.1 | 36.18 | 96.62 | 6.00 | 82.0 ± 0.1 |
| 1150 | 7 | 6.26 | 129.4 | 6.064 | 298.5 | 38.25 | 96.67 | 6.07 | 82.9 ± 0.1 |

GM K-Feldspar (continued)

| Temp (°C) | Time (min) | $^{40}\text{Ar}/^{39}\text{Ar}$ | $^{37}\text{Ar}/^{39}\text{Ar}$ $\times 10^{-3}$ | $^{36}\text{Ar}/^{39}\text{Ar}$ $\times 10^{-4}$ | ^{39}Ar $\times 10^{-15}$ (mol) | % ^{39}Ar | % $^{40}\text{Ar}^*$ | $^{40}\text{Ar}^*/^{39}\text{Ar}_R$ | Age [†] (Ma) |
|--------------|---------------|---------------------------------|---|---|---|--------------------|----------------------|-------------------------------------|--------------------------|
| 1150 | 10 | 6.26 | 62.51 | 6.113 | 309.0 | 40.38 | 96.57 | 6.06 | 82.8 ± 0.1 |
| 1150 | 10 | 6.26 | 68.01 | 5.819 | 284.0 | 42.34 | 96.69 | 6.07 | 82.9 ± 0.2 |
| 1150 | 10 | 6.26 | 215.7 | 6.153 | 268.6 | 44.20 | 96.73 | 6.07 | 83.0 ± 0.1 |
| 1175 | 10 | 6.30 | 39.45 | 6.020 | 489.5 | 47.58 | 96.65 | 6.10 | 83.3 ± 0.3 |
| 1175 | 10 | 6.33 | 43.97 | 5.993 | 439.2 | 50.61 | 96.68 | 6.13 | 83.8 ± 0.2 |
| 1175 | 10 | 6.35 | 210.9 | 5.895 | 366.4 | 53.14 | 96.92 | 6.16 | 84.2 ± 0.1 |
| 1175 | 13 | 6.33 | 41.95 | 5.718 | 460.4 | 56.32 | 96.81 | 6.14 | 83.9 ± 0.1 |
| 1175 | 16 | 6.33 | 32.90 | 6.049 | 587.0 | 60.38 | 96.67 | 6.13 | 83.7 ± 0.2 |
| 1175 | 20 | 6.33 | 55.88 | 6.339 | 691.3 | 65.15 | 96.58 | 6.12 | 83.6 ± 0.2 |
| 1200 | 6 | 6.29 | 62.63 | 5.273 | 308.4 | 67.28 | 96.94 | 6.11 | 83.5 ± 0.4 |
| 1200 | 10 | 6.28 | 61.70 | 5.195 | 313.1 | 69.45 | 96.97 | 6.11 | 83.5 ± 0.1 |
| 1200 | 20 | 6.28 | 22.42 | 5.554 | 861.3 | 75.40 | 96.88 | 6.09 | 83.2 ± 0.2 |
| 1200 | 30 | 6.23 | 18.09 | 5.668 | 1068 | 82.77 | 96.80 | 6.04 | 82.5 ± 0.2 |
| 1200 | 45 | 6.22 | 66.65 | 6.505 | 1159 | 90.78 | 96.49 | 6.00 | 82.0 ± 0.1 |
| 1200 | 75 | 6.30 | 21.71 | 10.96 | 889.8 | 96.93 | 94.34 | 5.95 | 81.3 ± 0.2 |
| 1250 | 10 | 5.99 | 282.9 | 0.2266 | 68.28 | 97.40 | 97.36 | 5.99 | 81.8 ± 0.1 |
| 1300 | 10 | 6.08 | 168.5 | 2.802 | 114.6 | 98.19 | 96.62 | 5.98 | 81.7 ± 0.2 |
| 1350 | 10 | 6.19 | 507.4 | 6.720 | 114.2 | 98.98 | 95.30 | 6.01 | 82.1 ± 0.2 |
| 1400 | 10 | 6.44 | 239.1 | 9.804 | 80.79 | 99.54 | 91.72 | 6.14 | 83.9 ± 0.2 |
| 1500 | 10 | 10.84 | 288.2 | 157.6 | 67.01 | 100.00 | 55.05 | 6.18 | 84.5 ± 0.4 |

†K-Ar age = 81.2 Ma



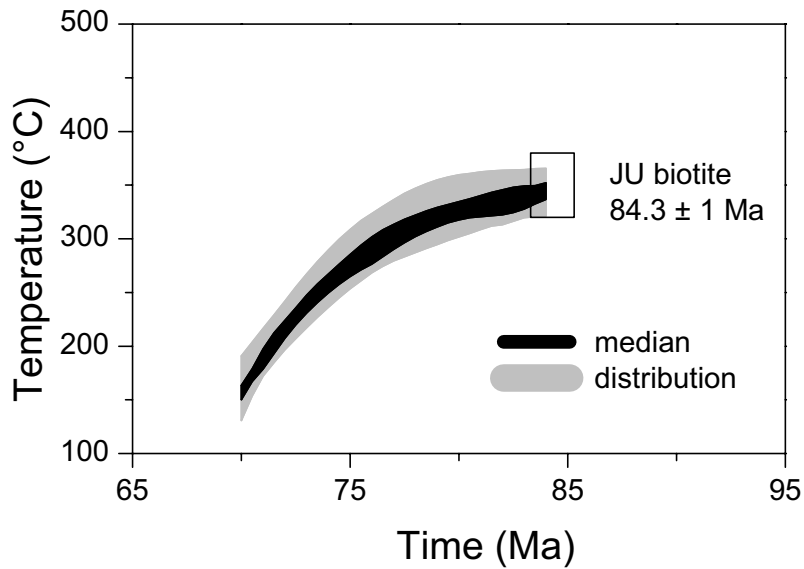
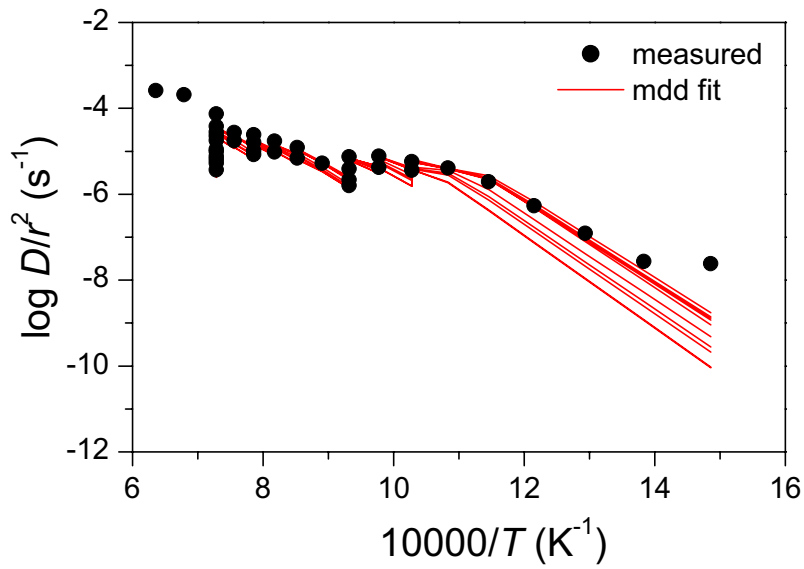
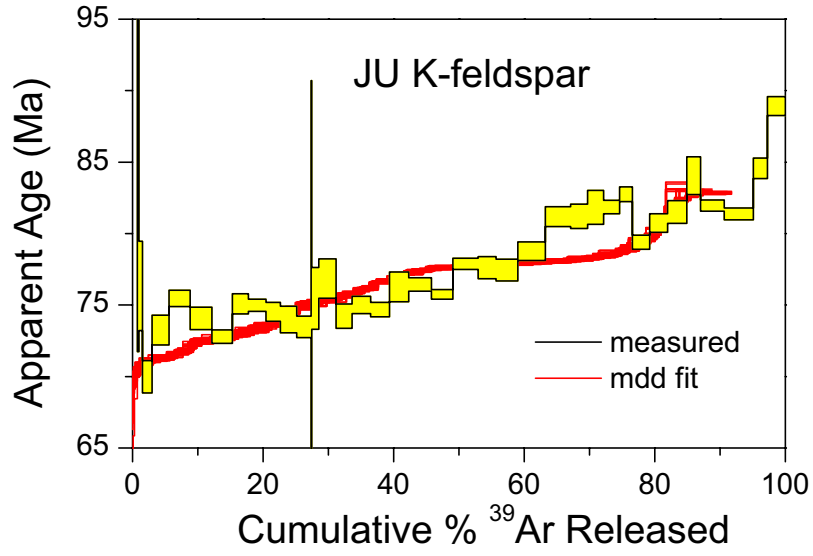
JU K-Feldspar 199.1 mg J=0.007789

| Temp (°C) | Time (min) | $^{40}\text{Ar}/^{39}\text{Ar}$ | $^{37}\text{Ar}/^{39}\text{Ar}$ $\times 10^{-3}$ | $^{36}\text{Ar}/^{39}\text{Ar}$ $\times 10^{-4}$ | ^{39}Ar $\times 10^{-15}$ (mol) | % ^{39}Ar | % $^{40}\text{Ar}^*$ | $^{40}\text{Ar}^*/^{39}\text{Ar}^*$ | Age [†] (Ma) |
|--------------|---------------|---------------------------------|---|---|---|--------------------|----------------------|-------------------------------------|--------------------------|
| 400 | 30 | 65.0 | 147 | 1897 | 150 | 0.7 | 13.7 | 8.93 | 121.3 ± 4.7 |
| 450 | 19 | 42.4 | 293 | 1229 | 47.0 | 0.9 | 14.3 | 6.11 | 83.8 ± 12.1 |
| 500 | 15 | 25.7 | 203 | 681 | 114 | 1.5 | 21.6 | 5.55 | 76.3 ± 3.1 |
| 550 | 16 | 11.7 | 164 | 222 | 295 | 2.9 | 43.5 | 5.08 | 70.0 ± 1.1 |
| 500 | 15 | 9.95 | 144 | 189 | 34.6 | 3.0 | 43.2 | 4.36 | 60.2 ± 15.3 |
| 600 | 15 | 9.29 | 159 | 134 | 528 | 5.6 | 57.2 | 5.32 | 73.3 ± 1.0 |
| 500 | 34 | 8.56 | 131 | 189 | 36.8 | 5.7 | 34.0 | 2.96 | 41.1 ± 11.3 |
| 650 | 15 | 9.70 | 238 | 142 | 656 | 8.9 | 56.5 | 5.48 | 75.5 ± 0.6 |
| 500 | 60 | 9.49 | 126 | 179 | 30.8 | 9.0 | 43.4 | 4.19 | 58.0 ± 12.3 |
| 700 | 16 | 10.4 | 533 | 172 | 681 | 12.2 | 51.5 | 5.38 | 74.1 ± 0.8 |
| 700 | 31 | 6.01 | 463 | 24.7 | 631 | 15.2 | 87.8 | 5.29 | 72.8 ± 0.5 |
| 750 | 14 | 7.00 | 783 | 53.2 | 502 | 17.6 | 77.8 | 5.46 | 75.1 ± 0.7 |
| 750 | 32 | 6.04 | 691 | 20.7 | 550 | 20.2 | 90.0 | 5.45 | 75.0 ± 0.4 |
| 800 | 17 | 7.80 | 1050 | 82.3 | 449 | 22.4 | 69.2 | 5.41 | 74.5 ± 0.7 |
| 800 | 40 | 6.22 | 869 | 29.7 | 506 | 24.8 | 86.2 | 5.38 | 74.0 ± 0.9 |
| 800 | 70 | 6.21 | 848 | 30.6 | 450 | 26.9 | 85.7 | 5.34 | 73.5 ± 0.7 |
| 750 | 16 | 7.06 | 611 | 97.0 | 27.0 | 27.1 | 58.1 | 4.21 | 58.2 ± 12.1 |
| 700 | 32 | 7.81 | 532 | 324 | 15.6 | 27.1 | 0.0 | 0.00 | 0.0 ± 0.0 |
| 650 | 100 | 8.46 | 355 | 235 | 14.1 | 27.2 | 17.0 | 1.50 | 21.0 ± 29.9 |
| 600 | 580 | 12.0 | 262 | 314 | 20.6 | 27.3 | 22.1 | 2.70 | 37.6 ± 22.3 |
| 800 | 5 | 7.89 | 830 | 79.1 | 21.4 | 27.4 | 68.7 | 5.58 | 76.8 ± 13.9 |
| 850 | 15 | 8.57 | 941 | 105 | 217 | 28.4 | 63.8 | 5.48 | 75.5 ± 2.2 |
| 900 | 17 | 9.72 | 815 | 141 | 541 | 31.0 | 57.4 | 5.59 | 76.9 ± 1.4 |
| 900 | 30 | 6.30 | 579 | 31.1 | 496 | 33.4 | 85.4 | 5.39 | 74.2 ± 0.8 |
| 950 | 15 | 7.67 | 450 | 75.2 | 570 | 36.1 | 71.0 | 5.45 | 75.0 ± 0.6 |
| 950 | 30 | 6.22 | 309 | 26.8 | 591 | 38.9 | 87.1 | 5.43 | 74.7 ± 0.5 |
| 1000 | 13 | 7.26 | 258 | 57.7 | 599 | 41.7 | 76.3 | 5.54 | 76.3 ± 1.0 |
| 1000 | 25 | 6.51 | 217 | 31.8 | 707 | 45.1 | 85.3 | 5.56 | 76.4 ± 0.5 |
| 1000 | 40 | 6.69 | 197 | 39.6 | 668 | 48.3 | 82.2 | 5.51 | 75.7 ± 0.3 |
| 1000 | 63 | 6.81 | 194 | 38.3 | 790 | 52.0 | 83.1 | 5.66 | 77.9 ± 0.4 |
| 950 | 15 | 7.45 | 190 | 77.1 | 69.3 | 52.4 | 68.6 | 5.16 | 71.1 ± 3.5 |
| 900 | 30 | 7.48 | 168 | 116 | 45.6 | 52.6 | 53.2 | 4.04 | 55.9 ± 10.9 |
| 850 | 60 | 8.27 | 189 | 197 | 32.1 | 52.7 | 28.9 | 2.43 | 33.9 ± 11.4 |
| 800 | 120 | 21.0 | 168 | 490 | 23.6 | 52.9 | 30.7 | 6.53 | 89.5 ± 17.1 |
| 750 | 656 | 12.7 | 171 | 251 | 40.2 | 53.0 | 41.1 | 5.29 | 72.8 ± 8.1 |
| 950 | 20 | 7.00 | 189 | 59.7 | 67.4 | 53.4 | 73.8 | 5.22 | 71.9 ± 3.9 |
| 1050 | 15 | 7.69 | 240 | 69.1 | 557 | 56.0 | 73.2 | 5.64 | 77.6 ± 0.8 |
| 1050 | 30 | 7.55 | 253 | 64.5 | 673 | 59.2 | 74.5 | 5.63 | 77.5 ± 0.8 |
| 1100 | 10 | 7.84 | 338 | 71.2 | 860 | 63.3 | 73.0 | 5.73 | 78.8 ± 0.6 |
| 1100 | 20 | 8.18 | 369 | 76.8 | 788 | 67.1 | 72.2 | 5.91 | 81.2 ± 0.7 |
| 1100 | 20 | 8.47 | 405 | 86.7 | 526 | 69.6 | 69.7 | 5.91 | 81.2 ± 0.8 |
| 1100 | 25 | 8.67 | 432 | 91.7 | 495 | 71.9 | 68.7 | 5.96 | 81.8 ± 1.2 |
| 1100 | 35 | 8.72 | 459 | 93.7 | 498 | 74.3 | 68.2 | 5.96 | 81.8 ± 0.5 |
| 1050 | 12 | 9.67 | 484 | 140 | 72.7 | 74.6 | 56.8 | 5.54 | 76.2 ± 5.3 |
| 1000 | 24 | 10.3 | 482 | 145 | 48.4 | 74.9 | 57.9 | 6.02 | 82.6 ± 6.1 |

JU K-Feldspar (continued)

| Temp (°C) | Time (min) | $^{40}\text{Ar}/^{39}\text{Ar}$ | $^{37}\text{Ar}/^{39}\text{Ar}$ $\times 10^{-3}$ | $^{36}\text{Ar}/^{39}\text{Ar}$ $\times 10^{-4}$ | ^{39}Ar $\times 10^{-15}$ (mol) | % ^{39}Ar | % $^{40}\text{Ar}^*$ | $^{40}\text{Ar}^*/^{39}\text{Ar}_R$ | Age [†] (Ma) |
|--------------|---------------|---------------------------------|---|---|---|--------------------|----------------------|-------------------------------------|--------------------------|
| 950 | 45 | 11.5 | 509 | 181 | 32.0 | 75.0 | 52.7 | 6.12 | 84.1 ± 14.1 |
| 900 | 93 | 13.4 | 530 | 298 | 25.5 | 75.1 | 34.0 | 4.63 | 63.9 ± 12.4 |
| 800 | 821 | 18.9 | 557 | 281 | 34.9 | 75.3 | 55.7 | 10.59 | 143.0 ± 17.7 |
| 1100 | 50 | 7.98 | 442 | 66.2 | 402 | 77.2 | 75.4 | 6.03 | 82.8 ± 0.5 |
| 1100 | 82 | 8.35 | 485 | 87.4 | 530 | 79.7 | 69.0 | 5.78 | 79.4 ± 0.5 |
| 1100 | 128 | 8.66 | 514 | 94.6 | 565 | 82.4 | 67.7 | 5.88 | 80.7 ± 0.6 |
| 1100 | 185 | 8.64 | 532 | 92.0 | 589 | 85.2 | 68.6 | 5.93 | 81.5 ± 0.8 |
| 1000 | 60 | 10.5 | 582 | 220 | 34.2 | 85.4 | 37.5 | 3.98 | 55.1 ± 14.8 |
| 1100 | 196 | 8.46 | 498 | 79.3 | 437 | 87.5 | 72.3 | 6.12 | 84.1 ± 1.3 |
| 1100 | 603 | 8.61 | 533 | 89.8 | 737 | 91.0 | 69.2 | 5.97 | 82.0 ± 0.4 |
| 1200 | 21 | 7.25 | 241 | 44.6 | 905 | 95.3 | 81.6 | 5.92 | 81.4 ± 0.4 |
| 1300 | 15 | 8.15 | 1113 | 69.0 | 434 | 97.3 | 75.4 | 6.16 | 84.6 ± 0.7 |
| 1550 | 17 | 10.6 | 1344 | 142 | 560 | 100.0 | 60.9 | 6.49 | 88.9 ± 0.7 |

[†]K-Ar age = 78.0 Ma



JUCH K-Feldspar 12.2 mg J=0.007900

| Power (Amps) | Time (min) | $^{40}\text{Ar}/^{39}\text{Ar}$ | $^{37}\text{Ar}/^{39}\text{Ar}$ $\times 10^{-3}$ | $^{36}\text{Ar}/^{39}\text{Ar}$ $\times 10^{-4}$ | ^{39}Ar $\times 10^{-15}$ (mol) | % ^{39}Ar | % $^{40}\text{Ar}^*$ | $^{40}\text{Ar}^*/^{39}\text{Ar}^*$ | Age [†] (Ma) |
|-----------------|---------------|---------------------------------|---|---|---|--------------------|----------------------|-------------------------------------|--------------------------|
| 0.65 | 3 | 6.627 | - | 21.20 | 7.706 | 0.286 | 89.3 | 5.98 | 83.3 ± 0.7 |
| 0.65 | 6 | 6.243 | - | 7.236 | 46.86 | 2.03 | 96.0 | 6.01 | 83.6 ± 0.2 |
| 0.65 | 10 | 6.184 | - | 2.016 | 53.73 | 4.02 | 98.6 | 6.10 | 85.0 ± 0.1 |
| 0.65 | 15 | 6.258 | - | 1.569 | 57.33 | 6.15 | 98.8 | 6.19 | 86.1 ± 0.2 |
| 0.65 | 20 | 6.385 | - | 2.937 | 134.2 | 11.1 | 98.3 | 6.28 | 87.3 ± 0.1 |
| 0.70 | 10 | 6.457 | - | 2.493 | 83.04 | 14.2 | 98.4 | 6.36 | 88.5 ± 0.1 |
| 0.70 | 18 | 6.476 | - | 2.571 | 82.57 | 17.3 | 98.4 | 6.38 | 88.7 ± 0.1 |
| 0.75 | 10 | 6.546 | - | 3.327 | 48.55 | 19.1 | 97.9 | 6.43 | 89.4 ± 0.2 |
| 0.75 | 15 | 6.557 | - | 2.904 | 58.33 | 21.2 | 98.1 | 6.45 | 89.7 ± 0.1 |
| 0.80 | 8 | 6.564 | - | 2.588 | 65.08 | 23.7 | 98.2 | 6.47 | 89.9 ± 0.2 |
| 0.80 | 15 | 6.581 | - | 2.614 | 65.45 | 26.1 | 98.2 | 6.48 | 90.1 ± 0.2 |
| 0.85 | 8 | 6.679 | - | 3.353 | 29.63 | 27.2 | 97.3 | 6.55 | 91.0 ± 0.4 |
| 0.85 | 12 | 6.616 | - | 2.871 | 62.91 | 29.5 | 98.0 | 6.51 | 90.5 ± 0.1 |
| 0.85 | 18 | 6.669 | - | 3.863 | 71.20 | 32.2 | 97.6 | 6.53 | 90.8 ± 0.9 |
| 0.90 | 9 | 6.755 | - | 4.503 | 48.74 | 34.0 | 97.3 | 6.60 | 91.7 ± 0.1 |
| 0.90 | 12 | 6.774 | - | 4.238 | 102.8 | 37.8 | 97.6 | 6.63 | 92.0 ± 0.1 |
| 0.90 | 18 | 6.805 | - | 4.518 | 108.7 | 41.8 | 97.5 | 6.65 | 92.4 ± 0.2 |
| 0.95 | 8 | 6.828 | - | 3.865 | 66.61 | 44.3 | 97.6 | 6.69 | 92.9 ± 0.2 |
| 0.95 | 12 | 6.830 | - | 4.224 | 76.48 | 47.1 | 97.5 | 6.68 | 92.8 ± 0.1 |
| 0.95 | 18 | 6.898 | - | 6.451 | 84.89 | 50.3 | 96.5 | 6.68 | 92.8 ± 0.1 |
| 1.00 | 8 | 6.850 | - | 3.331 | 46.26 | 52.0 | 97.3 | 6.73 | 93.4 ± 0.1 |
| 1.00 | 12 | 6.842 | - | 3.239 | 61.34 | 54.3 | 97.5 | 6.72 | 93.4 ± 0.2 |
| 1.00 | 18 | 6.857 | - | 3.984 | 88.05 | 57.5 | 97.4 | 6.72 | 93.3 ± 0.1 |
| 1.05 | 8 | 6.827 | - | 2.264 | 68.72 | 60.1 | 97.8 | 6.74 | 93.6 ± 0.1 |
| 1.05 | 12 | 2.738 | - | 0.000 | 100.7 | 63.8 | 97.9 | 6.72 | 93.4 ± 1.9 |
| 1.05 | 18 | 6.842 | - | 3.462 | 145.7 | 69.2 | 97.8 | 6.72 | 93.3 ± 0.1 |
| 1.10 | 8 | 6.734 | - | 2.606 | 139.8 | 74.4 | 98.0 | 6.64 | 92.2 ± 0.1 |
| 1.10 | 12 | 6.785 | - | 1.994 | 194.5 | 81.7 | 98.4 | 6.70 | 93.1 ± 0.1 |
| 1.10 | 12 | 6.796 | - | 1.838 | 224.8 | 90.0 | 98.5 | 6.72 | 93.3 ± 0.2 |
| 1.10 | 13 | 6.763 | - | 1.630 | 114.1 | 94.2 | 98.3 | 6.69 | 92.9 ± 0.1 |
| 1.10 | 15 | 6.819 | - | 1.843 | 69.60 | 96.8 | 97.8 | 6.74 | 93.6 ± 0.1 |
| 1.10 | 20 | 6.827 | - | 3.261 | 42.55 | 98.4 | 96.5 | 6.71 | 93.2 ± 0.2 |
| 1.15 | 10 | 6.742 | - | 0.000 | 17.42 | 99.0 | 94.8 | 6.75 | 93.7 ± 0.2 |
| 1.25 | 10 | 6.748 | - | 0.000 | 19.70 | 99.8 | 94.3 | 6.74 | 93.5 ± 0.2 |
| 1.25 | 10 | 6.944 | - | 0.000 | 6.177 | 100 | 85.1 | 6.98 | 96.9 ± 0.5 |

[†]K-Ar age = 91.5 Ma

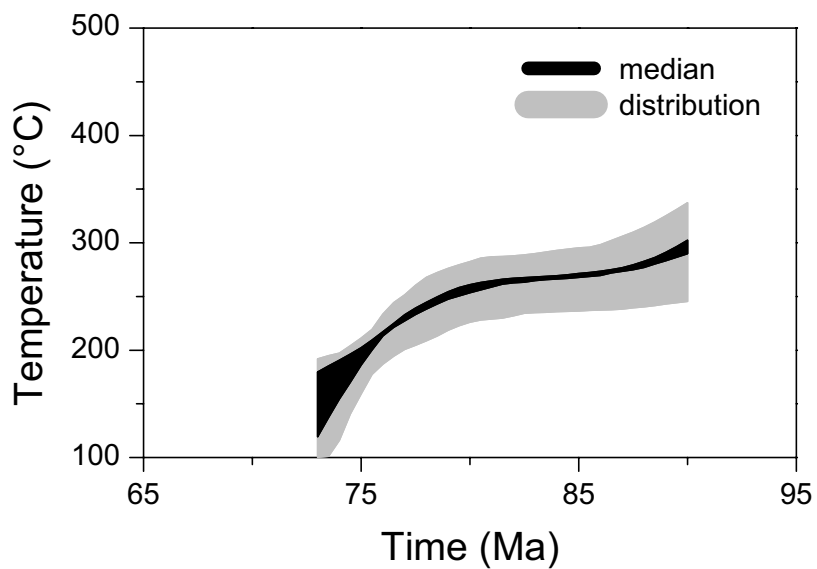
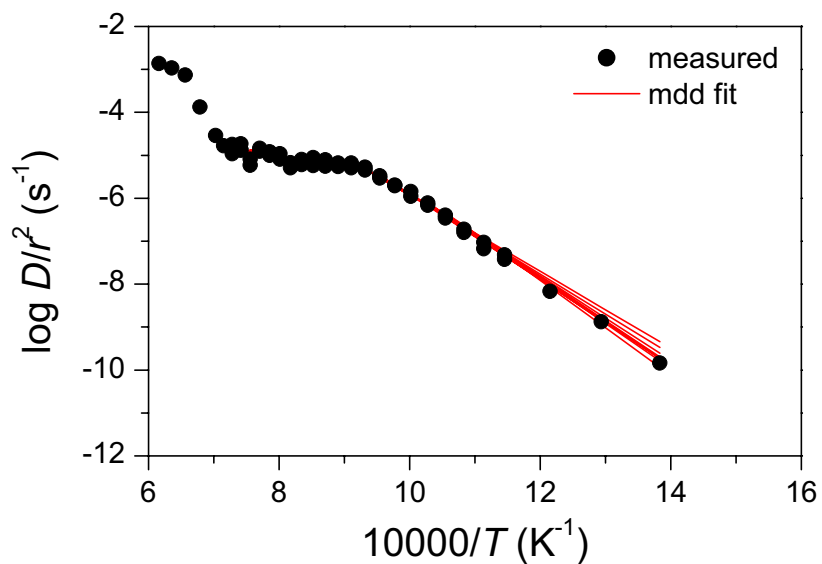
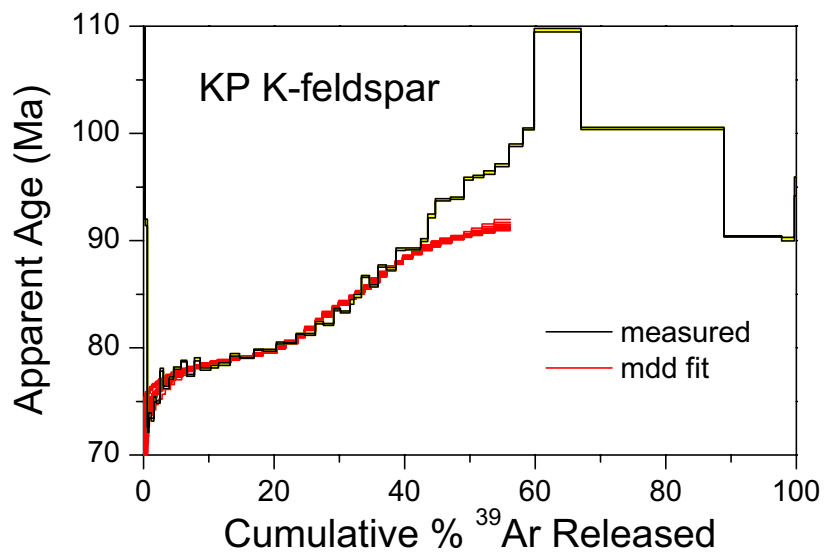
KP K-Feldspar 243.5 mg J=0.007600

| Temp (°C) | Time (h) | $^{40}\text{Ar}/^{39}\text{Ar}$ | $^{37}\text{Ar}/^{39}\text{Ar}$ $\times 10^{-3}$ | $^{36}\text{Ar}/^{39}\text{Ar}$ $\times 10^{-4}$ | ^{39}Ar $\times 10^{-15}$ (mol) | % ^{39}Ar | % $^{40}\text{Ar}^*$ | $^{40}\text{Ar}^*/^{39}\text{Ar}^*$ | Age [†] (Ma) |
|--------------|-------------|---------------------------------|---|---|---|--------------------|----------------------|-------------------------------------|--------------------------|
| 450 | 10 | 106.3 | 784.7 | 2371.68 | 1.280 | 0.00419 | 33.3 | 36.07 | 437.1 ± 43.1 |
| 500 | 10 | 63.93 | 555.5 | 1359.48 | 1.808 | 0.0101 | 36.4 | 23.79 | 299.8 ± 24.8 |
| 550 | 10 | 49.25 | 148.8 | 586.0 | 6.747 | 0.0322 | 64.3 | 31.93 | 391.9 ± 7.3 |
| 600 | 10 | 23.26 | 166.7 | 312.1 | 6.025 | 0.0519 | 59.2 | 14.03 | 182.8 ± 4.4 |
| 650 | 10 | 24.09 | 63.33 | 146.7 | 15.86 | 0.104 | 81.4 | 19.73 | 252.1 ± 2.1 |
| 700 | 10 | 7.457 | 0.000 | 19.35 | 105.3 | 0.448 | 91.7 | 6.86 | 91.7 ± 0.3 |
| 700 | 10 | 5.625 | 11.47 | 7.388 | 87.56 | 0.735 | 95.2 | 5.38 | 72.4 ± 0.2 |
| 725 | 10 | 5.656 | 15.16 | 5.010 | 66.24 | 0.951 | 96.3 | 5.49 | 73.7 ± 0.2 |
| 725 | 20 | 5.595 | 8.885 | 3.866 | 113.0 | 1.32 | 97.1 | 5.46 | 73.3 ± 0.1 |
| 750 | 10 | 5.761 | 97.75 | 4.981 | 71.91 | 1.56 | 96.6 | 5.60 | 75.2 ± 0.2 |
| 750 | 20 | 5.707 | 10.06 | 3.503 | 199.6 | 2.21 | 97.6 | 5.58 | 74.9 ± 0.1 |
| 775 | 10 | 5.937 | 13.76 | 3.533 | 145.9 | 2.69 | 97.6 | 5.81 | 78.0 ± 0.1 |
| 775 | 20 | 5.780 | 7.385 | 2.475 | 272.0 | 3.58 | 98.2 | 5.68 | 76.3 ± 0.1 |
| 800 | 10 | 5.763 | 30.41 | 0.000 | 33.02 | 3.68 | 98.4 | 5.75 | 77.2 ± 0.1 |
| 800 | 23 | 5.915 | 2.799 | 2.388 | 358.8 | 4.86 | 98.3 | 5.82 | 78.1 ± 0.1 |
| 825 | 10 | 5.960 | 5.142 | 2.194 | 390.5 | 6.13 | 98.4 | 5.87 | 78.8 ± 0.1 |
| 825 | 20 | 5.823 | 2.781 | 0.992 | 361.1 | 7.31 | 99.0 | 5.77 | 77.4 ± 0.1 |
| 850 | 10 | 5.943 | 3.616 | 1.195 | 277.7 | 8.22 | 98.9 | 5.88 | 78.9 ± 0.1 |
| 850 | 20 | 5.860 | 6.032 | 0.7698 | 499.4 | 9.86 | 99.1 | 5.81 | 78.0 ± 0.1 |
| 875 | 10 | 5.874 | 6.307 | 0.6031 | 159.2 | 10.4 | 99.2 | 5.83 | 78.2 ± 0.1 |
| 875 | 20 | 5.898 | 5.327 | 0.8196 | 565.5 | 12.2 | 99.2 | 5.85 | 78.5 ± 0.1 |
| 900 | 10 | 5.966 | 6.819 | 0.9303 | 441.8 | 13.7 | 99.1 | 5.92 | 79.3 ± 0.1 |
| 900 | 20 | 5.934 | 8.932 | 0.5962 | 674.6 | 15.9 | 99.3 | 5.89 | 79.0 ± 0.0 |
| 925 | 10 | 5.993 | 9.121 | 0.6152 | 440.4 | 17.3 | 99.3 | 5.95 | 79.8 ± 0.1 |
| 925 | 20 | 5.987 | 11.21 | 0.5577 | 627.0 | 19.4 | 99.3 | 5.95 | 79.8 ± 0.1 |
| 950 | 10 | 6.040 | 10.76 | 0.5850 | 373.4 | 20.6 | 99.3 | 6.00 | 80.4 ± 0.1 |
| 950 | 20 | 6.041 | 10.57 | 0.6136 | 569.9 | 22.5 | 99.3 | 6.00 | 80.5 ± 0.1 |
| 975 | 10 | 6.111 | 13.04 | 0.8397 | 385.1 | 23.7 | 99.2 | 6.06 | 81.3 ± 0.1 |
| 975 | 20 | 6.112 | 13.63 | 0.9326 | 515.6 | 25.4 | 99.1 | 6.06 | 81.3 ± 0.1 |
| 1000 | 10 | 6.206 | 12.99 | 1.312 | 386.5 | 26.7 | 99.0 | 6.15 | 82.3 ± 0.1 |
| 1000 | 20 | 6.195 | 14.66 | 1.368 | 479.5 | 28.2 | 98.9 | 6.13 | 82.2 ± 0.1 |
| 1025 | 10 | 6.314 | 15.93 | 1.747 | 315.2 | 29.3 | 98.8 | 6.24 | 83.6 ± 0.1 |
| 1025 | 20 | 6.293 | 15.20 | 1.683 | 462.4 | 30.8 | 98.8 | 6.22 | 83.3 ± 0.1 |
| 1050 | 10 | 6.360 | 10.69 | 1.488 | 187.9 | 31.4 | 98.8 | 6.29 | 84.3 ± 0.2 |
| 1050 | 15 | 6.413 | 11.06 | 1.854 | 363.1 | 32.6 | 98.7 | 6.34 | 84.8 ± 0.2 |
| 1075 | 10 | 6.563 | 10.60 | 2.238 | 378.9 | 33.8 | 98.6 | 6.47 | 86.7 ± 0.1 |
| 1075 | 15 | 6.492 | 9.835 | 2.077 | 408.4 | 35.2 | 98.6 | 6.41 | 85.8 ± 0.1 |
| 1100 | 10 | 6.647 | 7.833 | 2.592 | 384.6 | 36.4 | 98.4 | 6.55 | 87.6 ± 0.1 |
| 1100 | 15 | 6.630 | 4.347 | 2.650 | 462.0 | 37.9 | 98.4 | 6.53 | 87.4 ± 0.1 |
| 1125 | 10 | 6.788 | 4.631 | 3.266 | 433.7 | 39.3 | 98.1 | 6.67 | 89.2 ± 0.1 |
| 1125 | 15 | 6.789 | 5.616 | 3.228 | 536.5 | 41.1 | 98.2 | 6.67 | 89.2 ± 0.1 |
| 1150 | 12 | 6.781 | 5.134 | 2.949 | 195.6 | 41.7 | 98.1 | 6.67 | 89.2 ± 0.1 |

KP K-Feldspar (continued)

| Temp (°C) | Time (min) | ⁴⁰ Ar/ ³⁹ Ar | ³⁷ Ar/ ³⁹ Ar x10 ⁻³ | ³⁶ Ar/ ³⁹ Ar X10 ⁻⁴ | ³⁹ Ar X10 ⁻¹⁵ (mol) | % ³⁹ Ar | % ⁴⁰ Ar* | ⁴⁰ Ar*/ ³⁹ Ar _K | Age† (Ma) |
|--------------|---------------|------------------------------------|---|---|--|--------------------|---------------------|--|--------------|
| 1150 | 15 | 6.865 | 3.024 | 3.607 | 332.1 | 42.8 | 98.0 | 6.73 | 90.0 ± 0.1 |
| 1175 | 10 | 7.068 | - | 4.641 | 364.1 | 44.0 | 97.6 | 6.91 | 92.3 ± 0.2 |
| 1175 | 15 | 7.195 | 1.404 | 5.025 | 715.3 | 46.3 | 97.6 | 7.02 | 93.8 ± 0.1 |
| 1175 | 20 | 7.197 | 3.109 | 4.711 | 646.1 | 48.5 | 97.7 | 7.03 | 94.0 ± 0.1 |
| 1200 | 10 | 7.344 | - | 4.923 | 437.0 | 49.9 | 97.6 | 7.17 | 95.8 ± 0.1 |
| 1200 | 15 | 7.362 | 2.019 | 5.028 | 497.4 | 51.5 | 97.5 | 7.19 | 96.0 ± 0.1 |
| 1200 | 20 | 7.399 | 1.878 | 5.348 | 534.7 | 53.3 | 97.4 | 7.22 | 96.3 ± 0.2 |
| 1200 | 30 | 7.459 | 3.010 | 5.596 | 667.3 | 55.4 | 97.4 | 7.27 | 97.0 ± 0.1 |
| 1225 | 20 | 7.606 | 1.548 | 5.715 | 648.9 | 57.6 | 97.4 | 7.41 | 98.9 ± 0.1 |
| 1250 | 10 | 7.721 | 1.856 | 5.610 | 540.9 | 59.3 | 97.4 | 7.53 | 100.4 ± 0.1 |
| 1300 | 10 | 8.436 | 3.167 | 5.761 | 2220 | 66.6 | 97.7 | 8.24 | 109.6 ± 0.2 |
| 1350 | 10 | 7.701 | 1.140 | 4.820 | 6777 | 88.8 | 97.8 | 7.53 | 100.5 ± 0.1 |
| 1400 | 10 | 6.892 | 1.099 | 3.658 | 2742 | 97.7 | 98.0 | 6.76 | 90.4 ± 0.1 |
| 1450 | 10 | 6.985 | - | 7.439 | 602.4 | 99.7 | 95.8 | 6.74 | 90.1 ± 0.2 |
| 1550 | 10 | 9.325 | - | 73.86 | 93.23 | 100 | 72.9 | 7.12 | 95.1 ± 0.9 |

*K-Ar age = 91.6 Ma



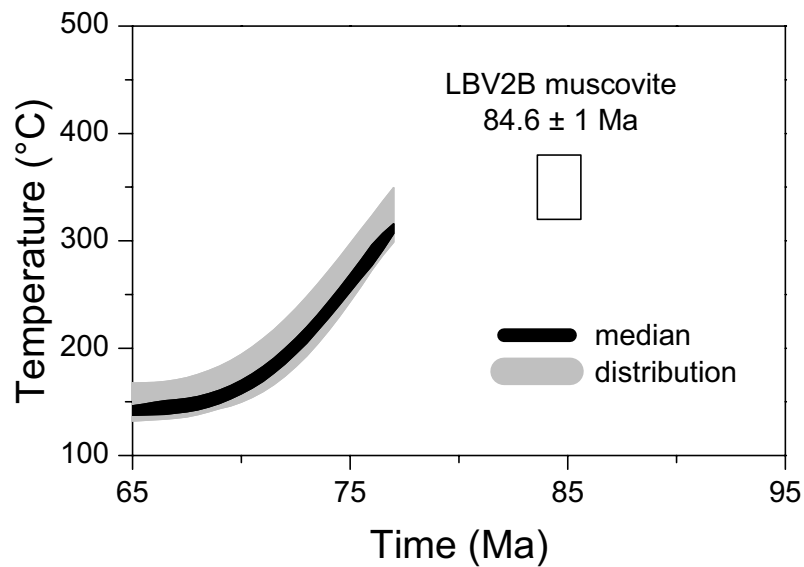
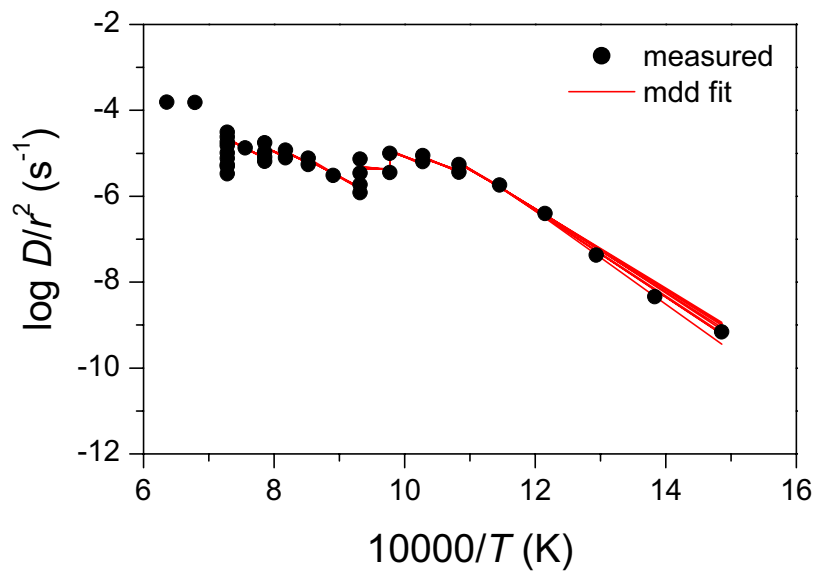
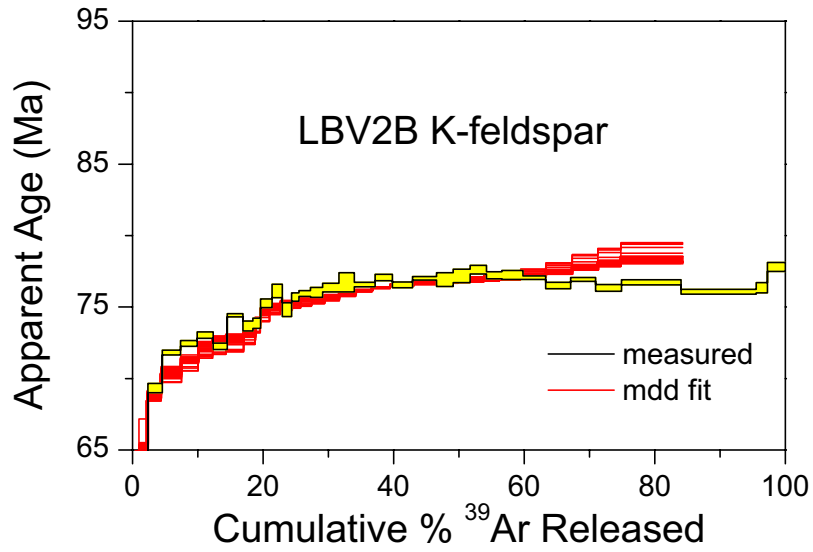
LBV-2B K-Feldspar 216.9 mg J=0.007682

| Temp (°C) | Time (min) | $^{40}\text{Ar}/^{39}\text{Ar}$ | $^{37}\text{Ar}/^{39}\text{Ar}$ $\times 10^{-3}$ | $^{36}\text{Ar}/^{39}\text{Ar}$ $\times 10^{-4}$ | ^{39}Ar $\times 10^{-15}$ (mol) | % ^{39}Ar | % $^{40}\text{Ar}^*$ | $^{40}\text{Ar}^*/^{39}\text{Ar}^*$ | Age ^t (Ma) |
|--------------|---------------|---------------------------------|---|---|---|--------------------|----------------------|-------------------------------------|--------------------------|
| 400 | 17 | 93.8 | 85.4 | 3113 | 61.7 | 0.0932 | 1.9 | 1.76 | 24.2 ± 17.1 |
| 450 | 24 | 26.5 | 68.0 | 794 | 136 | 0.299 | 11.2 | 3.01 | 41.3 ± 5.6 |
| 500 | 19 | 8.11 | 21.3 | 136 | 349 | 0.827 | 49.3 | 4.07 | 55.5 ± 1.2 |
| 550 | 16 | 5.37 | 4.76 | 25.1 | 984 | 2.31 | 84.9 | 4.60 | 62.7 ± 0.3 |
| 500 | 20 | 5.51 | 6.27 | 18.9 | 166 | 2.56 | 84.8 | 4.93 | 67.1 ± 2.1 |
| 600 | 11 | 5.38 | 3.03 | 8.52 | 1441 | 4.74 | 94.3 | 5.10 | 69.3 ± 0.3 |
| 500 | 15 | 5.42 | 14.1 | 40.8 | 71.0 | 4.85 | 68.5 | 4.19 | 57.2 ± 4.3 |
| 650 | 8 | 5.52 | 3.33 | 7.09 | 1820 | 7.59 | 95.3 | 5.29 | 71.8 ± 0.2 |
| 500 | 10 | 3.74 | 243 | 307 | 37.9 | 7.65 | 0.0 | 0.00 | - |
| 650 | 16 | 5.45 | 3.44 | 3.17 | 1658 | 10.2 | 97.3 | 5.33 | 72.5 ± 0.2 |
| 700 | 8 | 5.56 | 3.49 | 5.24 | 1576 | 12.5 | 96.2 | 5.38 | 73.0 ± 0.2 |
| 700 | 12 | 5.49 | 5.74 | 5.01 | 1410 | 14.7 | 96.3 | 5.32 | 72.2 ± 0.2 |
| 750 | 10 | 5.65 | 3.91 | 5.05 | 1576 | 17.0 | 96.4 | 5.48 | 74.4 ± 0.1 |
| 750 | 20 | 5.55 | 4.43 | 3.57 | 998 | 18.5 | 96.8 | 5.43 | 73.7 ± 0.3 |
| 800 | 8 | 5.74 | 5.43 | 9.20 | 760 | 19.7 | 93.8 | 5.44 | 73.9 ± 0.4 |
| 800 | 27 | 5.66 | 4.91 | 3.25 | 1129 | 21.4 | 97.7 | 5.54 | 75.3 ± 0.3 |
| 800 | 50 | 5.72 | 3.60 | 2.79 | 1032 | 23.0 | 98.0 | 5.61 | 76.1 ± 0.5 |
| 800 | 72 | 5.74 | 5.10 | 7.02 | 914 | 24.3 | 95.1 | 5.51 | 74.8 ± 0.5 |
| 750 | 20 | 5.58 | 7.15 | 23.5 | 71.1 | 24.4 | 77.4 | 4.86 | 66.1 ± 3.9 |
| 700 | 40 | 6.16 | 3.27 | 56.1 | 40.7 | 24.5 | 60.7 | 4.48 | 61.1 ± 6.6 |
| 600 | 635 | 15.6 | 8.45 | 367 | 46.4 | 24.6 | 28.4 | 4.74 | 64.5 ± 6.6 |
| 850 | 25 | 5.83 | 4.22 | 7.72 | 755 | 25.7 | 94.6 | 5.58 | 75.7 ± 0.3 |
| 900 | 16 | 5.92 | 4.29 | 10.2 | 1149 | 27.4 | 93.8 | 5.60 | 75.9 ± 0.2 |
| 900 | 25 | 5.77 | 3.50 | 4.70 | 1209 | 29.3 | 96.5 | 5.60 | 76.0 ± 0.3 |
| 950 | 17 | 5.89 | 3.28 | 8.00 | 1634 | 31.7 | 95.1 | 5.63 | 76.4 ± 0.3 |
| 950 | 26 | 5.86 | 3.66 | 6.24 | 1534 | 34.1 | 95.9 | 5.66 | 76.7 ± 0.7 |
| 1000 | 17 | 5.98 | 3.38 | 10.5 | 2074 | 37.2 | 94.0 | 5.64 | 76.6 ± 0.2 |
| 1000 | 25 | 6.02 | 3.39 | 10.8 | 1707 | 39.8 | 93.9 | 5.68 | 77.1 ± 0.2 |
| 1000 | 41 | 6.14 | 3.60 | 15.9 | 2004 | 42.8 | 91.6 | 5.64 | 76.5 ± 0.2 |
| 1000 | 67 | 6.17 | 3.42 | 15.9 | 2422 | 46.4 | 91.7 | 5.68 | 77.0 ± 0.1 |
| 950 | 9 | 6.10 | 3.07 | 13.5 | 122 | 46.6 | 87.2 | 5.68 | 77.0 ± 1.7 |
| 900 | 11 | 5.80 | -2.60 | 2.83 | 52.1 | 46.7 | 84.2 | 5.69 | 77.2 ± 0.8 |
| 850 | 20 | 5.84 | -3.23 | 12.5 | 33.4 | 46.8 | 74.3 | 5.45 | 73.9 ± 2.8 |
| 800 | 40 | 6.01 | -38.0 | 0.000 | 23.0 | 46.8 | 79.4 | 6.49 | 87.8 ± 8.0 |
| 1050 | 24 | 6.23 | 4.85 | 18.3 | 1656 | 49.3 | 90.5 | 5.67 | 76.9 ± 0.5 |
| 1100 | 11 | 6.21 | 6.07 | 16.8 | 1672 | 51.8 | 91.2 | 5.69 | 77.2 ± 0.5 |
| 1100 | 15 | 6.21 | 6.14 | 15.8 | 1624 | 54.3 | 91.7 | 5.72 | 77.6 ± 0.3 |
| 1100 | 20 | 6.23 | 6.30 | 17.5 | 1550 | 56.6 | 90.9 | 5.69 | 77.2 ± 0.3 |
| 1100 | 35 | 6.28 | 5.98 | 19.1 | 2103 | 59.8 | 90.3 | 5.69 | 77.2 ± 0.3 |
| 1100 | 60 | 6.34 | 5.68 | 21.6 | 2251 | 63.2 | 89.2 | 5.68 | 77.1 ± 0.1 |
| 1050 | 8 | 6.43 | 1.03 | 4.44 | 185 | 63.5 | 93.7 | 6.27 | 84.9 ± 1.2 |
| 1000 | 12 | 6.40 | 6.92 | 35.6 | 109 | 63.6 | 77.7 | 5.32 | 72.3 ± 2.2 |
| 950 | 16 | 6.43 | 12.6 | 28.0 | 57.5 | 63.7 | 76.4 | 5.58 | 75.7 ± 2.7 |
| 900 | 30 | 6.66 | 15.7 | 42.7 | 46.2 | 63.8 | 69.4 | 5.38 | 73.0 ± 5.2 |
| 850 | 55 | 7.19 | 9.62 | 108 | 34.5 | 63.8 | 46.0 | 3.97 | 54.2 ± 12.7 |

LBV-2B K-Feldspar (continued)

| Temp (°C) | Time (min) | $^{40}\text{Ar}/^{39}\text{Ar}$ | $^{37}\text{Ar}/^{39}\text{Ar}$ $\times 10^{-3}$ | $^{36}\text{Ar}/^{39}\text{Ar}$ $\times 10^{-4}$ | ^{39}Ar $\times 10^{-15}$ (mol) | % ^{39}Ar | % $^{40}\text{Ar}^*$ | $^{40}\text{Ar}^*/^{39}\text{Ar}_R$ | Age [†] (Ma) |
|--------------|---------------|---------------------------------|---|---|---|--------------------|----------------------|-------------------------------------|--------------------------|
| 750 | 405 | 12.7 | -7.69 | 254 | 46.1 | 63.9 | 37.7 | 5.21 | 70.8 ± 8.1 |
| 1100 | 99 | 6.35 | 4.68 | 23.4 | 2519 | 67.7 | 88.5 | 5.64 | 76.5 ± 0.2 |
| 1100 | 155 | 6.41 | 3.45 | 24.1 | 2486 | 71.5 | 88.2 | 5.67 | 76.9 ± 0.1 |
| 1100 | 200 | 6.49 | 2.80 | 28.6 | 2582 | 75.3 | 86.4 | 5.63 | 76.3 ± 0.2 |
| 1100 | 915 | 6.71 | 1.90 | 34.8 | 5934 | 84.3 | 84.2 | 5.66 | 76.7 ± 0.2 |
| 1200 | 57 | 6.71 | 1.30 | 36.4 | 7514 | 95.6 | 83.5 | 5.61 | 76.1 ± 0.2 |
| 1300 | 21 | 6.79 | 1.77 | 38.6 | 1101 | 97.3 | 82.3 | 5.63 | 76.4 ± 0.4 |
| 1550 | 20 | 9.33 | 3.04 | 121 | 1789 | 100 | 61.3 | 5.74 | 77.8 ± 0.3 |

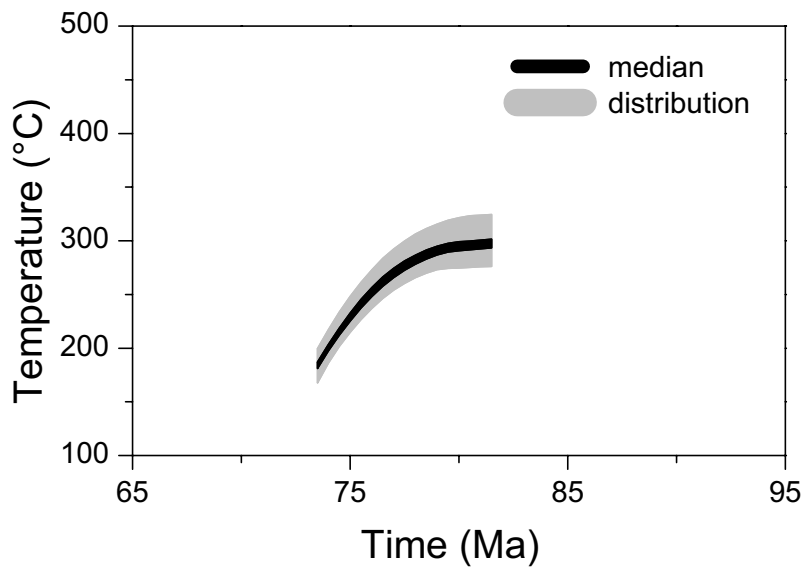
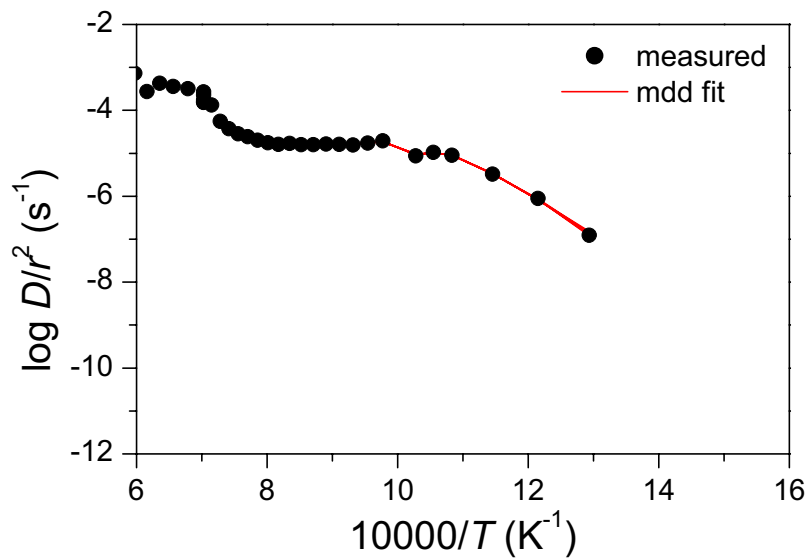
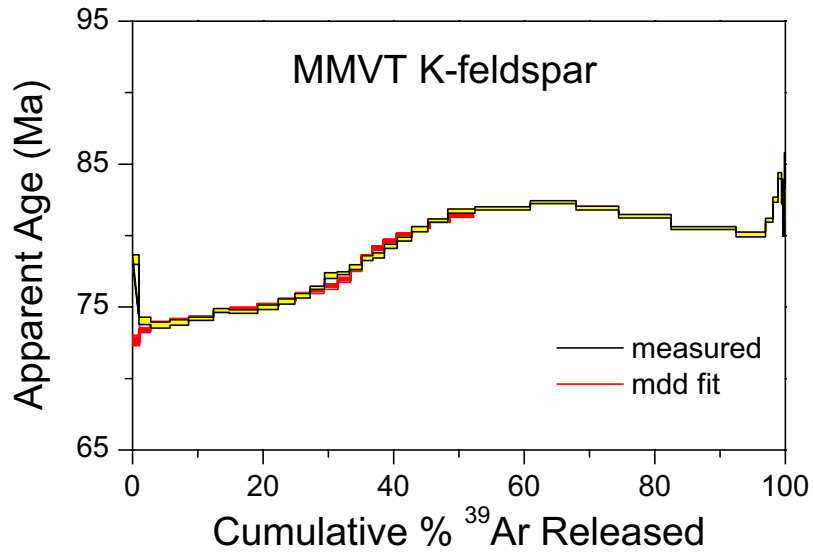
[†]K-Ar age = 75.4 Ma



MMVT K-Feldspar 202.1mg J=0.007600

| Temp (°C) | Time (min) | $^{40}\text{Ar}/^{39}\text{Ar}$ | $^{37}\text{Ar}/^{39}\text{Ar}$ $\times 10^{-3}$ | $^{36}\text{Ar}/^{39}\text{Ar}$ $\times 10^{-4}$ | ^{39}Ar $\times 10^{-15}$ (mol) | % ^{39}Ar | % $^{40}\text{Ar}^*$ | $^{40}\text{Ar}^*/^{39}\text{Ar}^*$ | Age [†] (Ma) |
|--------------|---------------|---------------------------------|---|---|---|--------------------|----------------------|-------------------------------------|--------------------------|
| 500 | 10 | 6.214 | 2644 | 18.79 | 78.41 | 0.636 | 93.4 | 5.838 | 78.3 ± 0.3 |
| 550 | 10 | 5.725 | 705.6 | 8.215 | 220.4 | 2.42 | 96.0 | 5.511 | 74.0 ± 0.3 |
| 600 | 10 | 5.586 | 434.1 | 3.491 | 358.2 | 5.33 | 98.1 | 5.490 | 73.8 ± 0.2 |
| 650 | 6 | 5.541 | 446.9 | 1.545 | 348.0 | 8.15 | 99.2 | 5.504 | 73.9 ± 0.2 |
| 600 | 10 | 5.527 | 3050 | 0.1998 | 84.98 | 8.84 | 100 | 5.733 | 76.9 ± 0.1 |
| 550 | 10 | 5.502 | 16364 | 0.0000 | 19.00 | 8.99 | 100 | 6.802 | 90.9 ± 0.8 |
| 500 | 10 | 5.527 | 137860 | 0.0000 | 2.256 | 9.01 | 100 | 18.010 | 231 ± 13 |
| 675 | 10 | 5.553 | 333.4 | 1.011 | 466.4 | 12.8 | 99.3 | 5.523 | 74.2 ± 0.1 |
| 700 | 10 | 5.552 | 701.5 | 0.4717 | 295.5 | 15.2 | 100 | 5.567 | 74.8 ± 0.1 |
| 725 | 10 | 5.596 | 13542 | 0.0000 | 19.14 | 15.8 | 100 | 6.701 | 89.6 ± 0.5 |
| 750 | 10 | 5.583 | 393.1 | 0.9112 | 527.4 | 20.1 | 99.5 | 5.561 | 74.7 ± 0.1 |
| 775 | 10 | 5.602 | 536.1 | 1.130 | 386.7 | 23.3 | 99.5 | 5.584 | 75.0 ± 0.2 |
| 800 | 10 | 5.630 | 505.6 | 0.9940 | 307.5 | 25.8 | 99.5 | 5.614 | 75.4 ± 0.2 |
| 825 | 10 | 5.664 | 543.9 | 1.161 | 285.9 | 28.1 | 99.5 | 5.646 | 75.8 ± 0.2 |
| 850 | 10 | 5.700 | 773.6 | 1.532 | 268.0 | 30.2 | 99.6 | 5.689 | 76.4 ± 0.1 |
| 875 | 10 | 5.722 | 1293 | 1.489 | 240.6 | 32.2 | 100 | 5.753 | 77.2 ± 0.2 |
| 900 | 10 | 5.750 | 910.7 | 0.9968 | 227.7 | 34.0 | 100 | 5.765 | 77.4 ± 0.1 |
| 925 | 10 | 5.780 | 899.4 | 0.8706 | 230.5 | 35.9 | 100 | 5.799 | 77.8 ± 0.2 |
| 950 | 10 | 5.818 | 1007 | 0.8476 | 205.8 | 37.6 | 100 | 5.845 | 78.4 ± 0.2 |
| 975 | 10 | 5.854 | 722.2 | 0.8103 | 215.3 | 39.3 | 99.9 | 5.860 | 78.6 ± 0.2 |
| 1000 | 10 | 5.895 | 884.1 | 0.9677 | 234.5 | 41.2 | 100 | 5.909 | 79.3 ± 0.2 |
| 1025 | 10 | 5.952 | 760.0 | 1.313 | 272.8 | 43.4 | 99.7 | 5.947 | 79.7 ± 0.1 |
| 1050 | 10 | 6.020 | 693.8 | 1.638 | 298.8 | 45.9 | 99.5 | 6.000 | 80.4 ± 0.2 |
| 1075 | 10 | 6.078 | 698.1 | 2.025 | 371.2 | 48.9 | 99.3 | 6.046 | 81.1 ± 0.1 |
| 1100 | 10 | 6.148 | 507.1 | 2.190 | 511.1 | 53.0 | 99.1 | 6.096 | 81.7 ± 0.1 |
| 1125 | 10 | 6.179 | 200.7 | 1.948 | 1033 | 61.4 | 98.8 | 6.111 | 81.9 ± 0.1 |
| 1150 | 5 | 6.206 | 182.4 | 1.682 | 852.7 | 68.3 | 98.9 | 6.144 | 82.3 ± 0.1 |
| 1150 | 10 | 6.176 | 194.7 | 1.763 | 798.5 | 74.8 | 98.9 | 6.113 | 81.9 ± 0.1 |
| 1150 | 15 | 6.145 | 158.8 | 2.107 | 979.4 | 82.7 | 98.7 | 6.070 | 81.4 ± 0.1 |
| 1150 | 25 | 6.099 | 128.6 | 2.618 | 1209 | 92.5 | 98.4 | 6.006 | 80.5 ± 0.1 |
| 1150 | 40 | 6.140 | 282.7 | 5.565 | 550.1 | 97.0 | 97.2 | 5.972 | 80.1 ± 0.2 |
| 1200 | 10 | 6.186 | 1122 | 6.747 | 138.7 | 98.1 | 97.4 | 6.048 | 81.1 ± 0.1 |
| 1250 | 10 | 6.401 | 2171 | 13.09 | 95.50 | 98.9 | 95.6 | 6.158 | 82.5 ± 0.2 |
| 1300 | 10 | 7.376 | 3244 | 44.61 | 63.92 | 99.4 | 84.6 | 6.286 | 84.2 ± 0.2 |
| 1350 | 10 | 15.51 | 6395 | 331.0 | 24.32 | 99.6 | 39.5 | 6.201 | 83.1 ± 0.9 |
| 1400 | 10 | 17.66 | 6407 | 410.1 | 32.36 | 99.9 | 33.7 | 6.012 | 80.6 ± 0.7 |
| 1450 | 5 | 17.53 | 12272 | 411.1 | 16.90 | 100 | 35.4 | 6.313 | 84.5 ± 1.2 |

[†]K-Ar age = 79.1 Ma



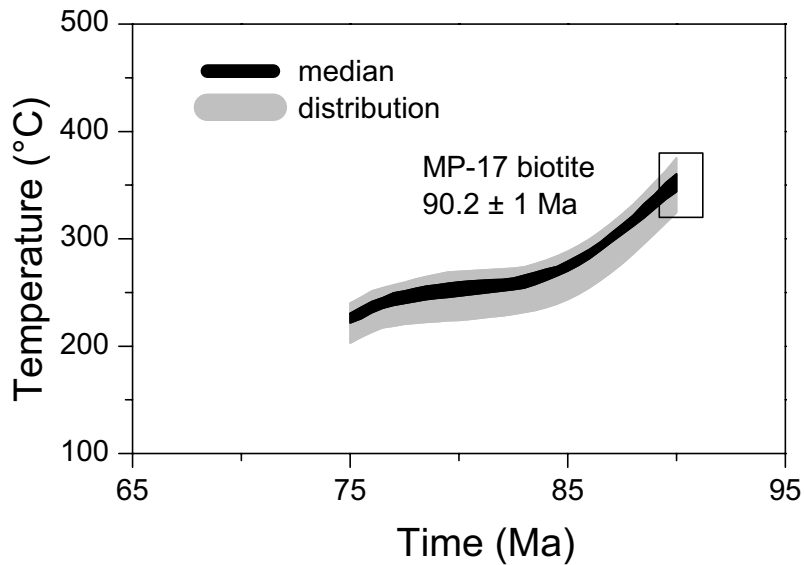
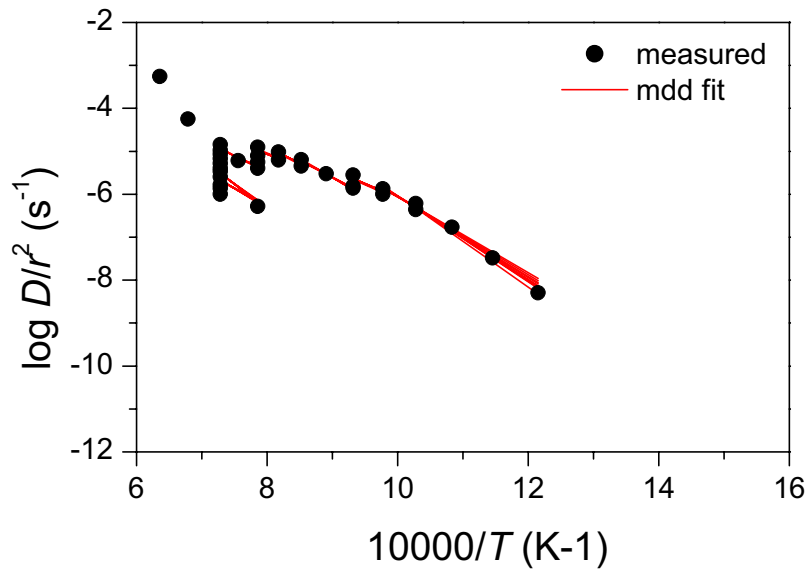
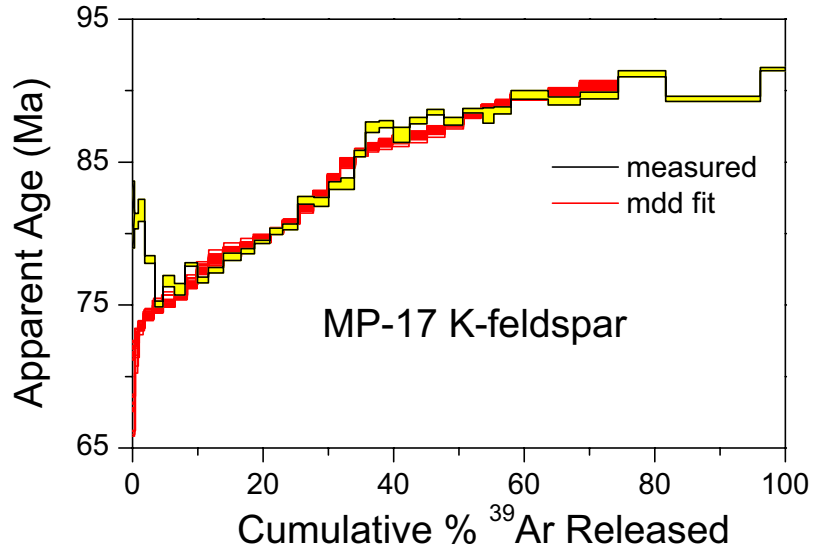
M P-17 K-Feldspar 222.3m g J=0.007933

| Temp (°C) | Time (h) | $^{40}\text{Ar}/^{39}\text{Ar}$ | $^{37}\text{Ar}/^{39}\text{Ar}$ $\times 10^{-3}$ | $^{36}\text{Ar}/^{39}\text{Ar}$ $\times 10^{-4}$ | ^{39}Ar $\times 10^{-15}$ (mol) | % ^{39}Ar | % $^{40}\text{Ar}^*$ | $^{40}\text{Ar}^*/^{39}\text{Ar}^*$ | Age [†] (Ma) |
|--------------|-------------|---------------------------------|---|---|---|--------------------|----------------------|-------------------------------------|--------------------------|
| 400 | 11 | 83.0 | 172 | 2680 | 16.2 | 0.0 | 4.3 | 3.74 | 52.8 ± 29.2 |
| 450 | 30 | 25.2 | 321 | 845 | 55.1 | 0.1 | 0.9 | 0.25 | 3.5 ± 11.5 |
| 500 | 22 | 17.2 | 167 | 419 | 70.0 | 0.2 | 26.7 | 4.79 | 67.2 ± 10.1 |
| 550 | 21 | 7.91 | 73.0 | 70.2 | 175 | 0.5 | 70.9 | 5.81 | 81.3 ± 2.3 |
| 500 | 55 | 5.74 | 61.6 | 32.2 | 46.6 | 0.6 | 70.0 | 4.77 | 67.0 ± 3.4 |
| 600 | 26 | 6.33 | 81.7 | 18.0 | 350 | 1.1 | 89.2 | 5.77 | 80.8 ± 0.5 |
| 650 | 21 | 6.53 | 97.2 | 22.9 | 612 | 2.1 | 88.2 | 5.83 | 81.6 ± 0.8 |
| 700 | 18 | 5.84 | 102 | 8.10 | 959 | 3.6 | 94.7 | 5.58 | 78.1 ± 0.3 |
| 700 | 30 | 5.47 | 100 | 3.28 | 762 | 4.8 | 96.7 | 5.35 | 75.0 ± 0.2 |
| 750 | 19 | 5.57 | 117 | 2.80 | 1064 | 6.5 | 97.3 | 5.47 | 76.6 ± 0.4 |
| 750 | 31 | 5.53 | 106 | 2.93 | 1002 | 8.1 | 97.2 | 5.43 | 76.0 ± 0.4 |
| 800 | 16 | 5.60 | 114 | 0.839 | 1156 | 9.9 | 98.4 | 5.55 | 77.8 ± 0.1 |
| 800 | 31 | 5.56 | 97.2 | 2.25 | 1031 | 11.6 | 97.6 | 5.47 | 76.7 ± 0.2 |
| 800 | 56 | 5.60 | 81.3 | 1.86 | 1412 | 13.8 | 98.0 | 5.52 | 77.4 ± 0.2 |
| 700 | 22 | 5.75 | 73.2 | 92.3 | 27.6 | 13.9 | 39.6 | 2.99 | 42.4 ± 10.3 |
| 650 | 468 | 7.30 | 60.8 | 75.2 | 110 | 14.0 | 65.2 | 5.06 | 71.0 ± 4.9 |
| 850 | 36 | 5.65 | 77.0 | 1.27 | 1638 | 16.6 | 98.4 | 5.59 | 78.3 ± 0.3 |
| 900 | 15 | 5.72 | 69.6 | 2.59 | 1272 | 18.7 | 97.6 | 5.62 | 78.7 ± 0.2 |
| 900 | 27 | 5.71 | 48.3 | 0.471 | 1427 | 20.9 | 98.7 | 5.67 | 79.4 ± 0.1 |
| 950 | 12 | 5.80 | 54.6 | 1.96 | 1216 | 22.9 | 97.9 | 5.72 | 80.1 ± 0.2 |
| 950 | 23 | 5.81 | 37.2 | 1.47 | 1387 | 25.1 | 98.2 | 5.75 | 80.4 ± 0.2 |
| 1000 | 14 | 5.92 | 63.1 | 0.456 | 1529 | 27.5 | 98.8 | 5.88 | 82.2 ± 0.3 |
| 1000 | 22 | 5.97 | 52.0 | 2.40 | 1398 | 29.7 | 97.8 | 5.87 | 82.1 ± 0.3 |
| 1000 | 27 | 6.02 | 42.9 | 1.25 | 1125 | 31.5 | 98.2 | 5.96 | 83.3 ± 0.3 |
| 1000 | 45 | 6.10 | 40.1 | 3.74 | 1280 | 33.5 | 97.2 | 5.97 | 83.4 ± 0.4 |
| 950 | 10 | 6.25 | 25.4 | 0.000 | 105 | 33.7 | 94.4 | 6.35 | 88.6 ± 1.8 |
| 900 | 15 | 5.68 | 41.8 | 13.4 | 40.5 | 33.8 | 76.1 | 5.26 | 73.7 ± 1.6 |
| 850 | 41 | 6.47 | 62.2 | 71.5 | 40.0 | 33.8 | 56.1 | 4.33 | 60.9 ± 4.3 |
| 750 | 1041 | 14.1 | 51.0 | 284 | 68.9 | 33.9 | 38.5 | 5.72 | 80.1 ± 5.5 |
| 950 | 15 | 6.20 | 64.4 | 4.12 | 926 | 35.4 | 96.8 | 6.05 | 84.6 ± 0.3 |
| 1050 | 26 | 6.21 | 48.7 | 2.36 | 1048 | 37.1 | 97.7 | 6.12 | 85.5 ± 0.2 |
| 1100 | 14 | 6.42 | 86.8 | 4.77 | 1269 | 39.1 | 96.9 | 6.25 | 87.4 ± 0.4 |
| 1100 | 21 | 6.38 | 74.6 | 3.02 | 1326 | 41.2 | 97.7 | 6.27 | 87.6 ± 0.2 |
| 1100 | 32 | 6.41 | 68.2 | 5.68 | 1547 | 43.6 | 96.5 | 6.22 | 86.8 ± 0.5 |
| 1100 | 45 | 6.50 | 63.3 | 6.42 | 1602 | 46.2 | 96.3 | 6.29 | 87.8 ± 0.2 |
| 1050 | 10 | 6.51 | 63.3 | 11.1 | 148 | 46.4 | 89.9 | 6.16 | 86.1 ± 1.4 |
| 1000 | 12 | 6.64 | 55.4 | 0.000 | 73.6 | 46.5 | 93.6 | 6.85 | 95.5 ± 1.9 |
| 950 | 21 | 6.31 | 55.7 | 0.000 | 41.5 | 46.6 | 99.7 | 7.49 | 104.1 ± 21 |
| 900 | 88 | 7.79 | 76.0 | 27.8 | 57.9 | 46.7 | 80.3 | 6.94 | 96.7 ± 1.7 |
| 1100 | 61 | 6.47 | 46.6 | 3.76 | 1590 | 49.2 | 97.4 | 6.33 | 88.4 ± 0.2 |
| 1100 | 91 | 6.60 | 49.1 | 9.82 | 1774 | 52.0 | 94.8 | 6.29 | 87.8 ± 0.3 |
| 1100 | 130 | 6.72 | 48.5 | 12.0 | 1891 | 55.0 | 94.0 | 6.34 | 88.5 ± 0.2 |
| 1000 | 473 | 7.63 | 35.7 | 43.7 | 1011 | 56.6 | 82.2 | 6.32 | 88.2 ± 0.5 |
| 1100 | 166 | 6.79 | 34.8 | 14.3 | 1635 | 59.2 | 93.0 | 6.34 | 88.5 ± 0.3 |
| 1100 | 597 | 7.31 | 39.9 | 26.0 | 3479 | 64.7 | 89.0 | 6.41 | 89.5 ± 0.3 |

MP-17 K-Feldspar (continued)

| Temp (°C) | Time (min) | $^{40}\text{Ar}/^{39}\text{Ar}$ | $^{37}\text{Ar}/^{39}\text{Ar}$ $\times 10^{-3}$ | $^{36}\text{Ar}/^{39}\text{Ar}$ $\times 10^{-4}$ | ^{39}Ar $\times 10^{-15}$ (mol) | % ^{39}Ar | % $^{40}\text{Ar}^*$ | $^{40}\text{Ar}^*/^{39}\text{Ar}_K$ | Age [†] (Ma) |
|--------------|---------------|---------------------------------|---|---|---|--------------------|----------------------|-------------------------------------|--------------------------|
| 1100 | 720 | 7.13 | 44.3 | 24.3 | 2983 | 69.5 | 89.4 | 6.39 | 89.2 ± 0.3 |
| 1100 | 1396 | 7.18 | 43.6 | 24.8 | 3567 | 75.1 | 89.3 | 6.42 | 89.6 ± 0.2 |
| 1200 | 40 | 6.85 | 31.2 | 9.92 | 4454 | 82.2 | 95.2 | 6.53 | 91.1 ± 0.2 |
| 1300 | 19 | 6.74 | 26.4 | 10.5 | 8859 | 96.3 | 94.9 | 6.40 | 89.3 ± 0.2 |
| 1550 | 14 | 7.38 | 29.4 | 27.2 | 2353 | 100.0 | 88.5 | 6.55 | 91.4 ± 0.1 |

[†]K-Ar age = 85.7 Ma



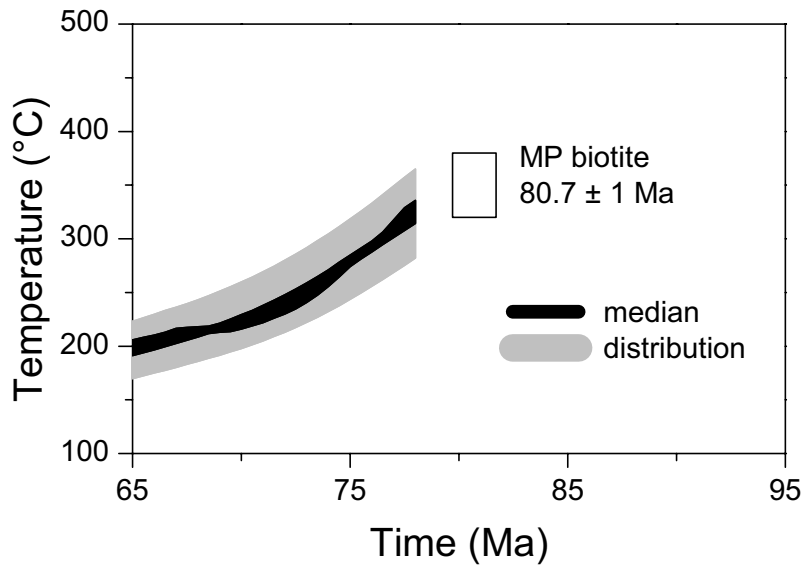
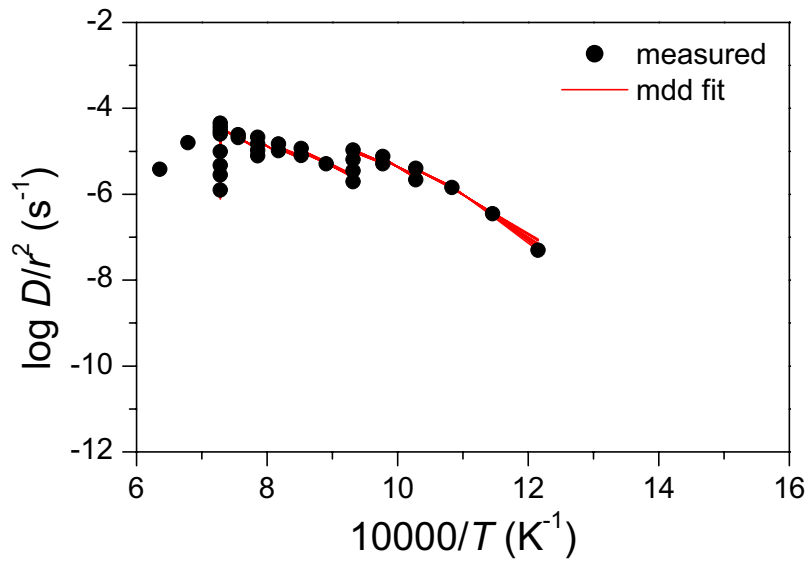
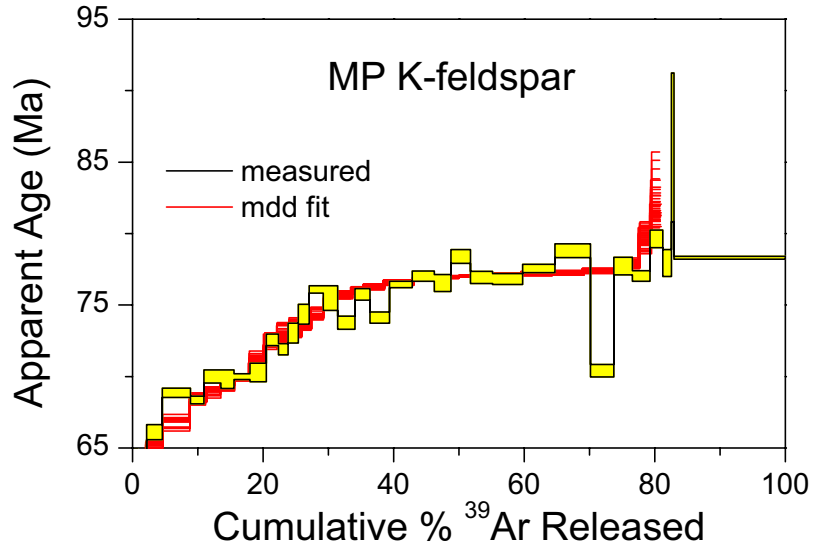
M P K-Feldspar 200.5 mg J=0.007804

| Temp (°C) | Time (min) | $^{40}\text{Ar}/^{39}\text{Ar}$ | $^{37}\text{Ar}/^{39}\text{Ar}$ $\times 10^{-3}$ | $^{36}\text{Ar}/^{39}\text{Ar}$ $\times 10^{-4}$ | ^{39}Ar $\times 10^{-15}$ (mol) | % ^{39}Ar | % $^{40}\text{Ar}^*$ | $^{40}\text{Ar}^*/^{39}\text{Ar}^*$ | Age [†] (Ma) |
|--------------|---------------|---------------------------------|---|---|---|--------------------|----------------------|-------------------------------------|--------------------------|
| 400 | 15 | 57.8 | 127 | 1626 | 32.8 | 0.1 | 16.8 | 9.72 | 131.9 ± 23.2 |
| 450 | 17 | 28.4 | 170 | 847 | 52.5 | 0.3 | 11.6 | 3.30 | 45.8 ± 8.4 |
| 500 | 15 | 13.6 | 118 | 294 | 109 | 0.6 | 35.6 | 4.84 | 66.9 ± 2.6 |
| 550 | 16 | 6.39 | 84.5 | 62.2 | 249 | 1.3 | 70.7 | 4.53 | 62.7 ± 2.3 |
| 500 | 15 | 6.20 | 133 | 135 | 27.1 | 1.4 | 34.4 | 2.20 | 30.7 ± 16.7 |
| 600 | 15 | 5.41 | 84.2 | 26.6 | 439 | 2.8 | 84.9 | 4.60 | 63.7 ± 0.9 |
| 500 | 25 | 6.97 | 173 | 234 | 21.4 | 2.8 | 0.6 | 0.04 | 0.6 ± 20.7 |
| 650 | 15 | 5.36 | 80.1 | 18.7 | 772 | 5.2 | 89.2 | 4.79 | 66.1 ± 0.5 |
| 500 | 50 | 8.12 | 27.1 | 28.2 | 18.8 | 5.2 | 86.6 | 7.26 | 99.4 ± 14.6 |
| 700 | 19 | 5.28 | 79.4 | 9.05 | 1371 | 9.4 | 94.5 | 4.99 | 68.9 ± 0.3 |
| 700 | 25 | 5.21 | 80.9 | 8.08 | 665 | 11.4 | 94.9 | 4.95 | 68.4 ± 0.3 |
| 750 | 11 | 5.31 | 99.4 | 7.48 | 831 | 13.9 | 95.4 | 5.07 | 70.0 ± 0.5 |
| 750 | 15 | 5.23 | 99.8 | 5.25 | 637 | 15.8 | 96.5 | 5.06 | 69.9 ± 0.7 |
| 800 | 10 | 5.33 | 118 | 8.15 | 780 | 18.2 | 95.0 | 5.07 | 70.0 ± 0.2 |
| 800 | 20 | 5.34 | 122 | 7.66 | 801 | 20.6 | 95.3 | 5.09 | 70.3 ± 0.7 |
| 800 | 30 | 5.42 | 118 | 4.82 | 597 | 22.4 | 96.9 | 5.26 | 72.6 ± 0.4 |
| 800 | 45 | 5.52 | 117 | 9.87 | 464 | 23.8 | 94.2 | 5.21 | 71.9 ± 0.4 |
| 750 | 15 | 6.42 | 121 | 90.8 | 46.5 | 24.0 | 56.9 | 3.72 | 51.6 ± 8.4 |
| 700 | 32 | 7.28 | 117 | 45.4 | 27.4 | 24.1 | 79.3 | 5.92 | 81.5 ± 6.3 |
| 650 | 63 | 11.0 | 155 | 80.6 | 13.9 | 24.1 | 75.8 | 8.62 | 117.5 ± 30.3 |
| 600 | 520 | 22.0 | 60.7 | 551 | 26.4 | 24.2 | 25.6 | 5.68 | 78.2 ± 23.3 |
| 850 | 20 | 5.56 | 130 | 8.26 | 508 | 25.7 | 95.1 | 5.30 | 73.1 ± 0.7 |
| 900 | 10 | 5.65 | 126 | 8.14 | 540 | 27.4 | 95.3 | 5.39 | 74.4 ± 0.7 |
| 900 | 20 | 5.58 | 96.3 | 1.37 | 687 | 29.4 | 98.8 | 5.52 | 76.1 ± 0.2 |
| 950 | 12 | 5.69 | 89.5 | 6.31 | 706 | 31.6 | 96.2 | 5.48 | 75.5 ± 0.9 |
| 950 | 22 | 5.64 | 62.9 | 8.91 | 841 | 34.1 | 94.8 | 5.35 | 73.8 ± 0.5 |
| 1000 | 10 | 5.70 | 57.2 | 6.19 | 727 | 36.3 | 96.3 | 5.50 | 75.8 ± 0.4 |
| 1000 | 20 | 5.68 | 47.4 | 9.55 | 957 | 39.2 | 94.5 | 5.38 | 74.2 ± 0.4 |
| 1000 | 36 | 5.75 | 41.0 | 6.16 | 1113 | 42.6 | 96.4 | 5.55 | 76.5 ± 0.2 |
| 1000 | 50 | 5.87 | 38.2 | 8.55 | 1080 | 45.9 | 95.2 | 5.59 | 77.1 ± 0.4 |
| 950 | 15 | 6.26 | 41.9 | 25.0 | 108 | 46.2 | 87.2 | 5.50 | 75.8 ± 1.2 |
| 900 | 52 | 6.78 | 41.9 | 54.3 | 120 | 46.6 | 75.5 | 5.15 | 71.2 ± 2.7 |
| 850 | 70 | 9.07 | 42.6 | 146 | 57.9 | 46.8 | 51.7 | 4.73 | 65.4 ± 7.9 |
| 750 | 925 | 21.3 | 45.1 | 509 | 64.9 | 46.9 | 29.2 | 6.25 | 85.9 ± 10.0 |
| 1050 | 13 | 5.90 | 51.2 | 10.9 | 813 | 49.4 | 94.1 | 5.56 | 76.6 ± 0.6 |
| 1050 | 19 | 5.89 | 48.2 | 6.01 | 956 | 52.3 | 96.5 | 5.69 | 78.4 ± 0.5 |
| 1100 | 11 | 5.91 | 63.2 | 10.3 | 1087 | 55.6 | 94.4 | 5.58 | 77.0 ± 0.4 |
| 1100 | 20 | 5.94 | 60.3 | 11.7 | 1480 | 60.1 | 93.8 | 5.58 | 76.9 ± 0.4 |
| 1100 | 30 | 5.97 | 58.3 | 10.5 | 1580 | 64.9 | 94.4 | 5.63 | 77.6 ± 0.3 |
| 1100 | 45 | 6.00 | 56.3 | 8.59 | 1736 | 70.1 | 95.3 | 5.72 | 78.8 ± 0.5 |
| 1050 | 20 | 6.31 | 61.0 | 23.9 | 317 | 71.1 | 88.3 | 5.59 | 77.0 ± 0.7 |
| 1100 | 88 | 16.0 | 28.6 | 369 | 1139 | 74.5 | 31.8 | 5.10 | 70.5 ± 0.4 |
| 1100 | 165 | 7.60 | 23.4 | 65.5 | 912 | 77.3 | 74.2 | 5.64 | 77.8 ± 0.6 |
| 1100 | 300 | 9.14 | 25.0 | 119 | 868 | 79.9 | 61.1 | 5.59 | 77.1 ± 0.4 |
| 1100 | 542 | 13.8 | 25.9 | 271 | 625 | 81.8 | 41.9 | 5.79 | 79.7 ± 0.6 |

MP K-Feldspar (continued)

| Temp (°C) | Time (min) | $^{40}\text{Ar}/^{39}\text{Ar}$ | $^{37}\text{Ar}/^{39}\text{Ar}$ $\times 10^{-3}$ | $^{36}\text{Ar}/^{39}\text{Ar}$ $\times 10^{-4}$ | ^{39}Ar $\times 10^{-15}$ (mol) | % ^{39}Ar | % $^{40}\text{Ar}^*$ | $^{40}\text{Ar}^*/^{39}\text{Ar}_K$ | Age [†] (Ma) |
|--------------|---------------|---------------------------------|---|---|---|--------------------|----------------------|-------------------------------------|--------------------------|
| 1200 | 31 | 8.28 | 34.9 | 87.8 | 422 | 83.1 | 68.3 | 5.66 | 78.0 ± 0.9 |
| 1300 | 40 | 10.7 | 24.4 | 150 | 123 | 83.5 | 58.1 | 6.26 | 86.1 ± 5.2 |
| 1550 | 22 | 6.36 | 26.0 | 22.0 | 5452 | 100.0 | 89.4 | 5.69 | 78.4 ± 0.1 |

[†]K-Ar age = 76.5 Ma



PV K-Feldspar 240.6 mg J=0.007650

| Power (Amps) | Time (min) | $^{40}\text{Ar}/^{39}\text{Ar}$ | $^{37}\text{Ar}/^{39}\text{Ar}$ $\times 10^{-3}$ | $^{36}\text{Ar}/^{39}\text{Ar}$ $\times 10^{-4}$ | ^{39}Ar $\times 10^{-15}$ (mol) | % ^{39}Ar | % $^{40}\text{Ar}^*$ | $^{40}\text{Ar}^*/^{39}\text{Ar}^*$ | Age ¹ (Ma) |
|-----------------|---------------|---------------------------------|---|---|---|--------------------|----------------------|-------------------------------------|--------------------------|
| 0.65 | 6 | 7.922 | - | 36.18 | 2.877 | 0.040 | 80.7 | 6.59 | 89.2 ± 2.2 |
| 0.65 | 8 | 6.507 | - | 4.841 | 53.10 | 0.775 | 97.2 | 6.34 | 86.0 ± 0.1 |
| 0.65 | 9 | 6.466 | - | 3.044 | 125.9 | 2.52 | 98.2 | 6.35 | 86.2 ± 0.1 |
| 0.65 | 10 | 6.470 | - | 2.158 | 106.3 | 3.99 | 98.6 | 6.38 | 86.6 ± 0.1 |
| 0.65 | 11 | 6.493 | - | 2.266 | 127.9 | 5.76 | 98.5 | 6.40 | 86.8 ± 0.1 |
| 0.65 | 13 | 6.491 | - | 1.472 | 131.8 | 7.59 | 98.9 | 6.43 | 87.1 ± 0.2 |
| 0.65 | 15 | 6.514 | - | 1.632 | 88.00 | 8.81 | 98.7 | 6.44 | 87.3 ± 0.1 |
| 0.70 | 10 | 6.658 | - | 5.751 | 187.4 | 11.4 | 97.0 | 6.47 | 87.6 ± 0.2 |
| 0.70 | 12 | 6.559 | - | 1.929 | 167.7 | 13.7 | 98.7 | 6.48 | 87.8 ± 0.1 |
| 0.70 | 15 | 6.599 | - | 2.459 | 143.8 | 15.7 | 98.5 | 6.50 | 88.2 ± 0.1 |
| 0.70 | 20 | 6.658 | - | 4.019 | 138.4 | 17.6 | 97.8 | 6.52 | 88.3 ± 0.1 |
| 0.75 | 10 | 6.917 | - | 11.76 | 114.9 | 19.2 | 94.5 | 6.55 | 88.7 ± 0.1 |
| 0.75 | 12 | 6.732 | - | 5.754 | 125.6 | 21.0 | 97.0 | 6.54 | 88.6 ± 0.1 |
| 0.75 | 15 | 6.690 | - | 3.588 | 129.0 | 22.8 | 97.9 | 6.56 | 88.9 ± 0.1 |
| 0.75 | 20 | 6.721 | - | 4.405 | 130.9 | 24.6 | 97.6 | 6.57 | 89.0 ± 0.1 |
| 0.80 | 10 | 6.964 | - | 11.48 | 85.44 | 25.7 | 94.5 | 6.60 | 89.4 ± 0.1 |
| 0.80 | 13 | 6.856 | - | 8.188 | 90.51 | 27.0 | 95.9 | 6.59 | 89.3 ± 0.1 |
| 0.80 | 20 | 6.888 | - | 8.831 | 156.6 | 29.2 | 95.7 | 6.60 | 89.5 ± 0.1 |
| 0.85 | 10 | 7.139 | - | 16.22 | 133.0 | 31.0 | 92.8 | 6.64 | 89.9 ± 0.1 |
| 0.85 | 15 | 7.155 | - | 15.76 | 272.7 | 34.8 | 93.1 | 6.67 | 90.3 ± 0.1 |
| 0.85 | 20 | 7.228 | - | 16.88 | 256.6 | 38.3 | 92.7 | 6.70 | 90.8 ± 0.4 |
| 0.90 | 10 | 7.331 | - | 19.47 | 157.9 | 40.5 | 91.7 | 6.73 | 91.2 ± 0.2 |
| 0.90 | 12 | 7.399 | - | 21.30 | 166.4 | 42.8 | 91.0 | 6.75 | 91.4 ± 0.1 |
| 0.90 | 15 | 8.005 | - | 41.42 | 195.4 | 45.5 | 84.3 | 6.76 | 91.5 ± 0.2 |
| 0.90 | 20 | 7.537 | - | 23.82 | 232.2 | 48.8 | 90.1 | 6.80 | 92.1 ± 0.2 |
| 0.95 | 10 | 7.670 | - | 24.95 | 282.1 | 52.7 | 90.0 | 6.91 | 93.5 ± 0.2 |
| 0.95 | 10 | 7.593 | - | 22.87 | 265.4 | 56.3 | 90.6 | 6.89 | 93.3 ± 0.2 |
| 0.95 | 10 | 7.500 | - | 20.24 | 239.3 | 59.6 | 91.6 | 6.88 | 93.1 ± 0.2 |
| 0.95 | 10 | 7.451 | - | 19.63 | 178.8 | 62.1 | 91.7 | 6.85 | 92.7 ± 0.1 |
| 0.95 | 10 | 7.513 | - | 20.79 | 164.1 | 64.4 | 91.3 | 6.88 | 93.1 ± 0.2 |
| 0.95 | 10 | 7.446 | - | 18.80 | 148.7 | 66.5 | 92.0 | 6.87 | 92.9 ± 0.1 |
| 0.95 | 12 | 7.447 | - | 18.68 | 170.7 | 68.8 | 92.1 | 6.87 | 93.0 ± 0.1 |
| 0.95 | 12 | 7.456 | - | 19.03 | 222.3 | 71.9 | 92.0 | 6.87 | 93.0 ± 0.2 |
| 0.95 | 15 | 7.392 | - | 16.66 | 258.1 | 75.5 | 92.9 | 6.88 | 93.1 ± 0.3 |
| 0.95 | 15 | 7.358 | - | 15.15 | 198.9 | 78.2 | 93.4 | 6.88 | 93.2 ± 0.2 |
| 0.95 | 15 | 7.290 | - | 13.74 | 159.5 | 80.4 | 93.9 | 6.86 | 92.9 ± 0.2 |
| 0.95 | 15 | 7.327 | - | 15.37 | 125.5 | 82.2 | 93.2 | 6.85 | 92.7 ± 0.1 |
| 0.95 | 15 | 7.263 | - | 13.42 | 92.97 | 83.5 | 93.8 | 6.84 | 92.6 ± 0.2 |
| 1.00 | 10 | 7.154 | - | 10.27 | 309.9 | 87.8 | 95.3 | 6.83 | 92.4 ± 0.2 |
| 1.00 | 10 | 7.089 | - | 8.615 | 317.3 | 92.2 | 95.9 | 6.81 | 92.2 ± 0.1 |
| 1.00 | 10 | 7.250 | - | 13.05 | 202.2 | 95.0 | 94.2 | 6.84 | 92.6 ± 0.2 |
| 1.00 | 10 | 7.065 | - | 8.724 | 137.6 | 96.9 | 95.7 | 6.79 | 91.9 ± 0.2 |
| 1.05 | 10 | 7.280 | - | 14.61 | 106.1 | 98.3 | 93.2 | 6.82 | 92.4 ± 0.1 |
| 1.10 | 10 | 7.158 | - | 10.84 | 80.76 | 99.4 | 94.3 | 6.81 | 92.2 ± 0.2 |
| 1.20 | 10 | 8.311 | - | 42.97 | 40.13 | 100 | 82.4 | 7.01 | 94.8 ± 0.3 |

¹K-Ar age = 91.1 Ma

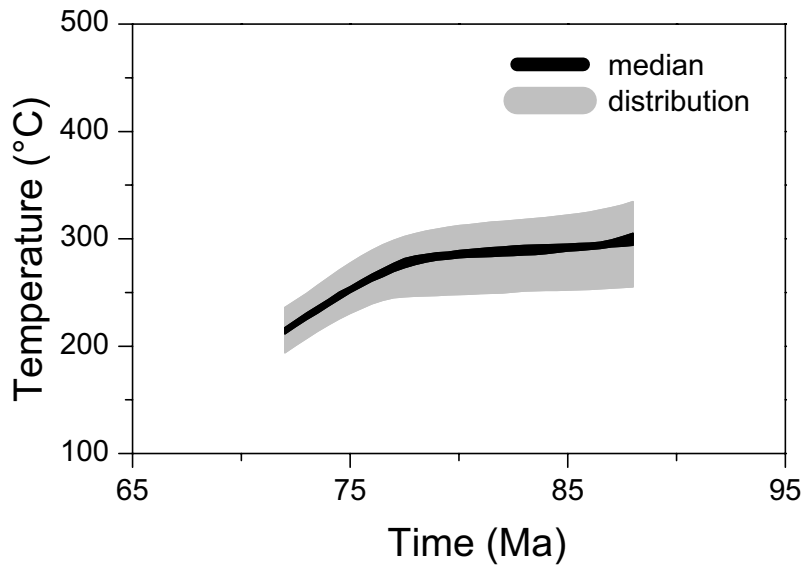
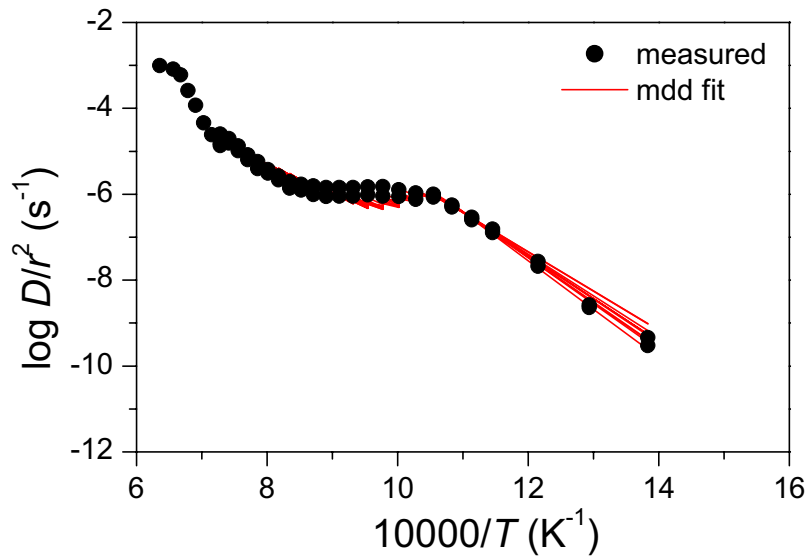
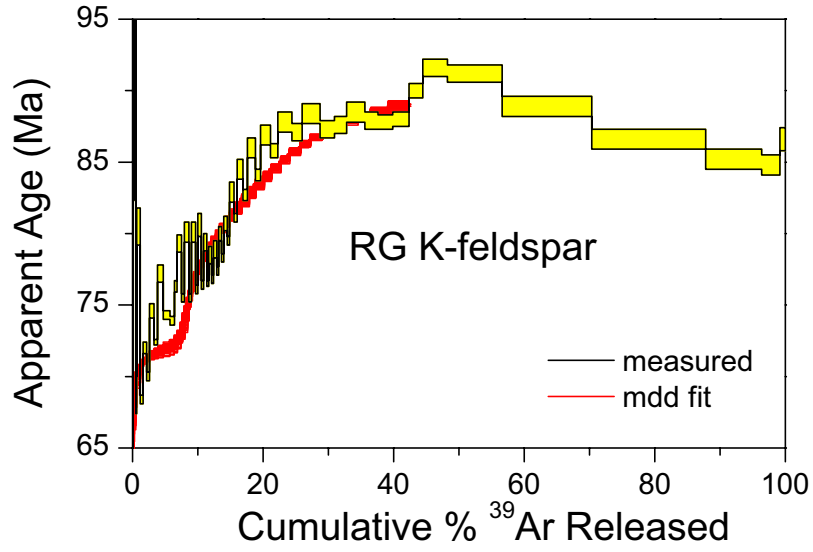
RG K-feldspar 250.2 mg J=0.007650

| Temp (°C) | Time (h) | $^{40}\text{Ar}/^{39}\text{Ar}$ | $^{37}\text{Ar}/^{39}\text{Ar}$ $\times 10^{-3}$ | $^{36}\text{Ar}/^{39}\text{Ar}$ $\times 10^{-4}$ | ^{39}Ar $\times 10^{-15}$ (mol) | % ^{39}Ar | % $^{40}\text{Ar}^*$ | $^{40}\text{Ar}^*/^{39}\text{Ar}^*$ | Age [†] (Ma) |
|--------------|-------------|---------------------------------|---|---|---|--------------------|----------------------|-------------------------------------|--------------------------|
| 450 | 10 | 185.78 | 33.92 | 5742 | 18.6 | 0.0593 | 8.7 | 16.09 | 208 ± 62 |
| 450 | 10 | 158.96 | 25.20 | 5151 | 5.4 | 0.0764 | 4.2 | 6.70 | 89.6 ± 67.8 |
| 500 | 10 | 77.499 | 18.76 | 2069 | 15.8 | 0.127 | 21.1 | 16.34 | 211 ± 23 |
| 500 | 10 | 35.130 | 8.780 | 951.5 | 17.61 | 0.183 | 19.9 | 6.99 | 93.4 ± 11.1 |
| 550 | 10 | 20.344 | 4.510 | 385.3 | 92.85 | 0.478 | 43.9 | 8.94 | 119 ± 4 |
| 550 | 10 | 8.169 | 1.382 | 102.7 | 43.96 | 0.618 | 62.3 | 5.11 | 68.7 ± 1.3 |
| 600 | 10 | 9.211 | 1.001 | 107.8 | 168 | 1.15 | 65.1 | 6.00 | 80.5 ± 1.3 |
| 600 | 10 | 5.880 | 0.1060 | 26.06 | 133 | 1.58 | 86.3 | 5.09 | 68.4 ± 0.3 |
| 625 | 10 | 6.390 | 0.0710 | 34.25 | 184 | 2.16 | 83.7 | 5.35 | 72.0 ± 0.4 |
| 625 | 10 | 5.701 | 0.0290 | 15.95 | 128 | 2.57 | 91.1 | 5.21 | 70.0 ± 0.3 |
| 650 | 10 | 6.707 | 0.0890 | 38.11 | 227 | 3.29 | 82.8 | 5.56 | 74.6 ± 0.5 |
| 650 | 10 | 5.903 | 0.0850 | 16.60 | 169.1 | 3.83 | 91.1 | 5.39 | 72.4 ± 0.2 |
| 675 | 10 | 7.217 | 0.0050 | 48.69 | 281.2 | 4.73 | 79.7 | 5.75 | 77.2 ± 0.6 |
| 675 | 16 | 6.116 | 0.1670 | 19.04 | 313.7 | 5.73 | 90.3 | 5.53 | 74.3 ± 0.3 |
| 700 | 10 | 6.034 | 0.0230 | 17.29 | 66.24 | 5.94 | 90.7 | 5.50 | 73.9 ± 0.3 |
| 700 | 10 | 6.559 | 0.0360 | 28.88 | 138.7 | 6.38 | 86.4 | 5.68 | 76.3 ± 0.4 |
| 725 | 10 | 7.424 | 0.2080 | 50.46 | 212.0 | 7.05 | 79.5 | 5.91 | 79.3 ± 0.6 |
| 725 | 10 | 6.270 | 0.0140 | 21.07 | 139.1 | 7.49 | 89.5 | 5.62 | 75.5 ± 0.3 |
| 750 | 10 | 7.735 | 0.2400 | 58.70 | 219.4 | 8.19 | 77.2 | 5.98 | 80.1 ± 0.7 |
| 750 | 10 | 6.167 | 0.0400 | 17.57 | 123.4 | 8.59 | 91.0 | 5.62 | 75.5 ± 0.3 |
| 775 | 10 | 7.672 | 0.2170 | 56.69 | 191.0 | 9.19 | 77.8 | 5.97 | 80.1 ± 0.7 |
| 775 | 10 | 6.308 | 0.0410 | 20.85 | 117.9 | 9.57 | 89.6 | 5.67 | 76.1 ± 0.3 |
| 800 | 10 | 8.141 | 0.2240 | 71.32 | 169.0 | 10.1 | 73.7 | 6.01 | 80.6 ± 0.8 |
| 800 | 10 | 6.273 | 0.0550 | 18.78 | 102.5 | 10.4 | 90.5 | 5.69 | 76.4 ± 0.3 |
| 825 | 10 | 7.292 | 0.1180 | 45.69 | 156.4 | 10.9 | 81.0 | 5.92 | 79.4 ± 0.6 |
| 825 | 10 | 6.143 | 0.0600 | 14.19 | 94.89 | 11.2 | 92.4 | 5.70 | 76.5 ± 0.2 |
| 850 | 10 | 7.229 | 0.0910 | 45.71 | 145.8 | 11.7 | 80.8 | 5.85 | 78.5 ± 0.6 |
| 850 | 10 | 6.196 | 0.1180 | 15.17 | 86.45 | 12.0 | 92.0 | 5.72 | 76.8 ± 0.3 |
| 875 | 10 | 7.329 | 0.1250 | 48.18 | 149.0 | 12.4 | 80.1 | 5.88 | 78.9 ± 0.6 |
| 875 | 10 | 6.451 | 0.0960 | 22.28 | 91.48 | 12.7 | 89.0 | 5.77 | 77.4 ± 0.3 |
| 900 | 10 | 7.269 | 0.1700 | 43.41 | 151.9 | 13.2 | 81.8 | 5.96 | 80.0 ± 0.5 |
| 900 | 10 | 6.473 | 0.1430 | 20.81 | 107.6 | 13.6 | 89.8 | 5.83 | 78.3 ± 0.3 |
| 600 | 1020 | 8.212 | 0.7580 | 82.18 | 8.576 | 13.6 | 54.9 | 5.76 | 77.3 ± 1.2 |
| 925 | 10 | 7.362 | 0.2760 | 44.67 | 164.3 | 14.1 | 81.5 | 6.02 | 80.7 ± 0.5 |
| 925 | 10 | 6.627 | 0.1790 | 22.78 | 113.6 | 14.5 | 89.1 | 5.93 | 79.5 ± 0.3 |
| 950 | 10 | 8.062 | 0.3440 | 62.60 | 209.6 | 15.1 | 76.6 | 6.19 | 82.9 ± 0.7 |
| 950 | 10 | 6.868 | 0.3350 | 26.95 | 163.6 | 15.7 | 87.8 | 6.05 | 81.1 ± 0.3 |
| 975 | 10 | 8.018 | 0.3840 | 57.06 | 272.9 | 16.5 | 78.5 | 6.31 | 84.5 ± 0.7 |
| 975 | 10 | 7.067 | 0.2890 | 29.45 | 215.9 | 17.2 | 87.1 | 6.17 | 82.7 ± 0.4 |
| 1000 | 10 | 8.131 | 0.3620 | 57.03 | 380.8 | 18.4 | 78.9 | 6.42 | 86.0 ± 0.7 |
| 1000 | 10 | 7.292 | 0.3200 | 33.39 | 248.1 | 19.2 | 85.9 | 6.28 | 84.1 ± 0.4 |
| 1025 | 10 | 8.158 | 0.3820 | 55.47 | 488.6 | 20.8 | 79.5 | 6.49 | 86.9 ± 0.7 |
| 1025 | 10 | 7.681 | 0.3760 | 42.34 | 353.1 | 21.9 | 83.2 | 6.41 | 85.8 ± 0.5 |
| 1050 | 10 | 8.333 | 0.4460 | 59.26 | 684.9 | 24.1 | 78.6 | 6.56 | 87.8 ± 0.7 |
| 1050 | 10 | 7.949 | 0.4090 | 48.08 | 489.9 | 25.6 | 81.7 | 6.51 | 87.1 ± 0.6 |

RG K-feldspar (continued)

| Temp (°C) | Time (min) | ⁴⁰ Ar/ ³⁹ Ar | ³⁷ Ar/ ³⁹ Ar x10 ⁻³ | ³⁶ Ar/ ³⁹ Ar x10 ⁻⁴ | ³⁹ Ar x10 ⁻¹⁵ (mol) | % ³⁹ Ar | % ⁴⁰ Ar* | ⁴⁰ Ar*/ ³⁹ Ar _K | Age† (Ma) |
|--------------|---------------|------------------------------------|---|---|--|--------------------|---------------------|--|--------------|
| 1075 | 10 | 8.402 | 0.4120 | 59.80 | 871.9 | 28.4 | 78.6 | 6.61 | 88.4 ± 0.7 |
| 1075 | 10 | 8.041 | 0.4230 | 50.47 | 687.3 | 30.6 | 81.1 | 6.53 | 87.3 ± 0.6 |
| 1075 | 10 | 8.024 | 0.3980 | 49.24 | 589.3 | 32.5 | 81.4 | 6.55 | 87.6 ± 0.6 |
| 1100 | 10 | 8.290 | 0.4080 | 55.89 | 879.4 | 35.3 | 79.7 | 6.62 | 88.5 ± 0.7 |
| 1100 | 10 | 7.938 | 0.3770 | 45.60 | 643.7 | 37.3 | 82.6 | 6.57 | 87.9 ± 0.6 |
| 1100 | 15 | 7.781 | 0.4580 | 40.48 | 707.6 | 39.6 | 84.2 | 6.56 | 87.8 ± 0.5 |
| 1100 | 20 | 7.820 | 0.5250 | 41.16 | 788.4 | 42.1 | 84.0 | 6.58 | 88.0 ± 0.5 |
| 1125 | 10 | 8.114 | 0.6100 | 46.00 | 671.3 | 44.2 | 82.8 | 6.73 | 90.0 ± 0.5 |
| 1150 | 10 | 8.291 | 0.6530 | 47.89 | 1187 | 48.0 | 82.6 | 6.85 | 91.6 ± 0.6 |
| 1175 | 10 | 8.409 | 0.7080 | 52.84 | 2643 | 56.4 | 81.1 | 6.82 | 91.2 ± 0.6 |
| 1200 | 10 | 8.378 | 0.7590 | 57.88 | 4343 | 70.2 | 79.3 | 6.64 | 88.9 ± 0.7 |
| 1225 | 10 | 8.277 | 0.6760 | 60.34 | 5509 | 87.7 | 78.1 | 6.47 | 86.6 ± 0.7 |
| 1250 | 10 | 8.184 | 0.5030 | 60.74 | 2703 | 96.4 | 77.8 | 6.37 | 85.2 ± 0.7 |
| 1300 | 10 | 8.108 | 0.4700 | 59.16 | 877.8 | 99.1 | 77.7 | 6.34 | 84.8 ± 0.7 |
| 1450 | 10 | 8.536 | 0.5840 | 69.12 | 268.9 | 100 | 72.1 | 6.47 | 86.6 ± 0.8 |

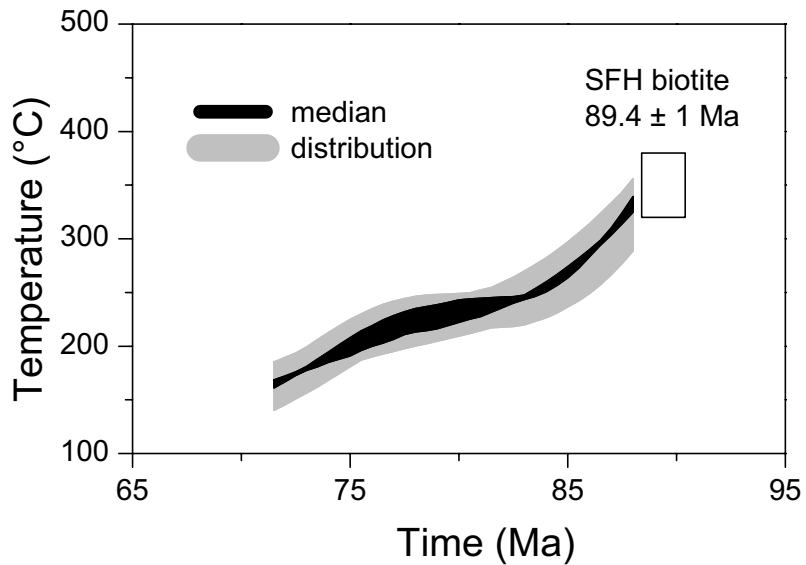
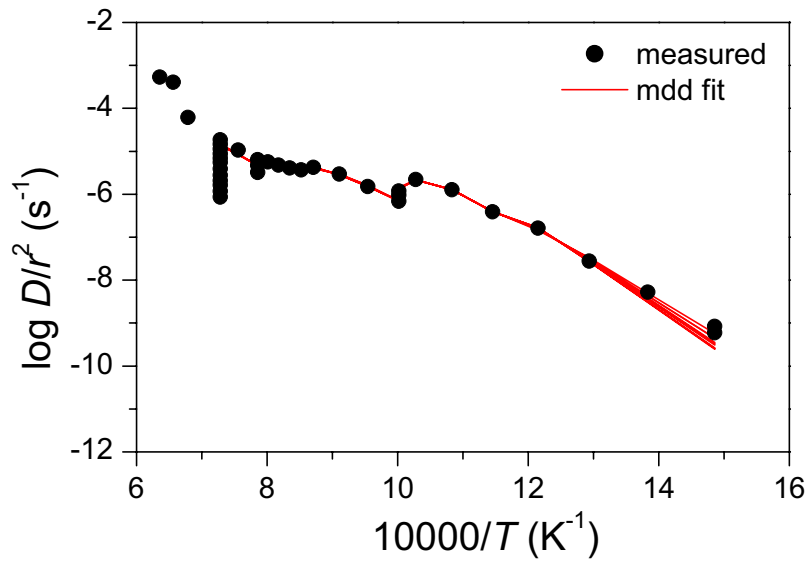
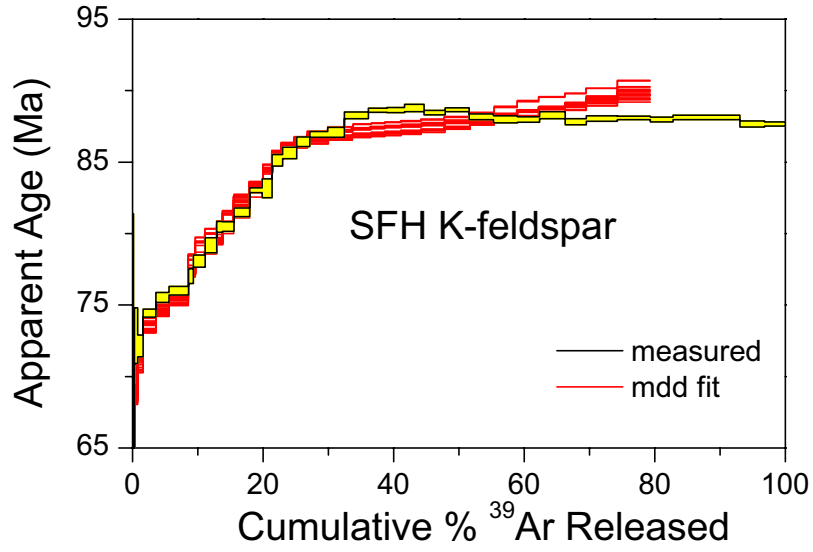
†K-Ar age = 86.4 Ma



SFH K-feldspar 206.8 mg J=0.007688

| Temp (°C) | Time (min) | $^{40}\text{Ar}/^{39}\text{Ar}$ | $^{37}\text{Ar}/^{39}\text{Ar}$ $\times 10^{-3}$ | $^{36}\text{Ar}/^{39}\text{Ar}$ $\times 10^{-4}$ | ^{39}Ar $\times 10^{-15}$ (mol) | % ^{39}Ar | % $^{40}\text{Ar}^*$ | $^{40}\text{Ar}^*/^{39}\text{Ar}^*$ | Age [†] (Ma) |
|--------------|---------------|---------------------------------|---|---|---|--------------------|----------------------|-------------------------------------|--------------------------|
| 400 | 18 | 19.1 | 118 | 473 | 57.8 | 0.0 | 26.6 | 5.14 | 69.9 ± 9.7 |
| 400 | 18 | 15.8 | 146 | 398 | 28.8 | 0.0 | 25.0 | 4.04 | 55.1 ± 26.3 |
| 450 | 19 | 12.1 | 112 | 274 | 112 | 0.0 | 33.0 | 4.04 | 55.2 ± 3.7 |
| 500 | 23 | 6.42 | 43.4 | 35.3 | 284 | 0.0 | 83.0 | 5.36 | 72.9 ± 1.9 |
| 550 | 17 | 5.80 | 39.0 | 16.0 | 554 | 0.0 | 91.2 | 5.31 | 72.1 ± 0.8 |
| 500 | 26 | 5.62 | 78.3 | 49.1 | 74.4 | 0.0 | 72.2 | 4.15 | 56.7 ± 7.1 |
| 600 | 34 | 5.67 | 37.4 | 5.73 | 1221 | 0.0 | 96.5 | 5.48 | 74.4 ± 0.3 |
| 650 | 19 | 5.74 | 38.8 | 5.39 | 1265 | 0.1 | 96.7 | 5.56 | 75.5 ± 0.3 |
| 700 | 25 | 5.73 | 53.3 | 3.78 | 1877 | 0.1 | 97.6 | 5.60 | 76.0 ± 0.3 |
| 725 | 19 | 5.82 | 62.0 | 4.23 | 486 | 0.1 | 97.2 | 5.67 | 77.0 ± 0.5 |
| 725 | 41 | 5.87 | 60.1 | 3.22 | 1134 | 0.1 | 97.9 | 5.75 | 78.1 ± 0.4 |
| 725 | 82 | 5.95 | 57.9 | 3.25 | 1122 | 0.1 | 97.9 | 5.84 | 79.2 ± 0.5 |
| 675 | 64 | 6.46 | 41.5 | 30.7 | 147 | 0.1 | 84.8 | 5.53 | 75.2 ± 1.4 |
| 600 | 365 | 9.99 | 16.7 | 122 | 68.9 | 0.1 | 62.9 | 6.38 | 86.4 ± 8.6 |
| 775 | 20 | 6.04 | 69.0 | 3.10 | 539 | 0.1 | 97.9 | 5.93 | 80.5 ± 0.4 |
| 825 | 23 | 6.05 | 73.5 | 3.41 | 1106 | 0.2 | 97.9 | 5.93 | 80.5 ± 0.3 |
| 875 | 25 | 6.13 | 56.5 | 3.47 | 1517 | 0.2 | 97.9 | 6.01 | 81.5 ± 0.3 |
| 900 | 26 | 6.26 | 38.4 | 3.87 | 1216 | 0.2 | 97.7 | 6.13 | 83.0 ± 0.2 |
| 925 | 20 | 6.36 | 32.8 | 6.88 | 952 | 0.2 | 96.3 | 6.14 | 83.2 ± 0.7 |
| 950 | 20 | 6.46 | 28.6 | 5.27 | 1030 | 0.2 | 97.1 | 6.28 | 85.1 ± 0.4 |
| 975 | 24 | 6.52 | 24.9 | 5.77 | 1348 | 0.3 | 96.9 | 6.32 | 85.7 ± 0.4 |
| 1000 | 22 | 6.60 | 24.9 | 6.58 | 1288 | 0.3 | 96.6 | 6.38 | 86.4 ± 0.3 |
| 1000 | 43 | 6.75 | 21.8 | 10.4 | 1699 | 0.3 | 95.0 | 6.42 | 86.9 ± 0.2 |
| 1000 | 66 | 6.85 | 20.9 | 13.5 | 1623 | 0.3 | 93.7 | 6.43 | 87.1 ± 0.4 |
| 950 | 11 | 7.60 | 23.8 | 67.6 | 113 | 0.3 | 71.7 | 5.58 | 75.7 ± 3.7 |
| 900 | 12 | 8.44 | 52.5 | 138 | 43.8 | 0.3 | 48.8 | 4.34 | 59.2 ± 10.0 |
| 850 | 23 | 9.06 | 61.1 | 149 | 27.7 | 0.3 | 47.3 | 4.63 | 63.1 ± 11.6 |
| 1050 | 31 | 7.59 | 34.3 | 35.6 | 2316 | 0.4 | 85.8 | 6.52 | 88.3 ± 0.2 |
| 1100 | 15 | 7.49 | 54.6 | 31.1 | 1782 | 0.4 | 87.3 | 6.55 | 88.6 ± 0.1 |
| 1100 | 20 | 6.89 | 49.3 | 10.7 | 1725 | 0.4 | 95.0 | 6.55 | 88.6 ± 0.2 |
| 1100 | 30 | 6.93 | 44.5 | 11.8 | 1868 | 0.5 | 94.6 | 6.56 | 88.8 ± 0.3 |
| 1100 | 45 | 7.03 | 42.6 | 16.2 | 2034 | 0.5 | 92.8 | 6.54 | 88.5 ± 0.2 |
| 1100 | 70 | 7.12 | 38.5 | 18.7 | 2316 | 0.5 | 91.9 | 6.55 | 88.7 ± 0.1 |
| 1100 | 100 | 7.16 | 35.9 | 21.2 | 2347 | 0.6 | 90.9 | 6.52 | 88.2 ± 0.2 |
| 1100 | 150 | 7.33 | 33.0 | 27.2 | 2321 | 0.6 | 88.6 | 6.50 | 88.0 ± 0.3 |
| 1100 | 210 | 7.51 | 30.6 | 33.4 | 2125 | 0.6 | 86.5 | 6.50 | 88.0 ± 0.2 |
| 1100 | 367 | 7.65 | 28.0 | 37.5 | 2493 | 0.7 | 85.1 | 6.52 | 88.3 ± 0.2 |
| 1100 | 420 | 7.71 | 25.4 | 40.7 | 2037 | 0.7 | 84.0 | 6.49 | 87.8 ± 0.2 |
| 1100 | 980 | 7.64 | 24.7 | 37.8 | 3000 | 0.7 | 85.0 | 6.50 | 88.0 ± 0.2 |
| 1100 | 1740 | 7.47 | 20.7 | 31.8 | 3189 | 0.8 | 87.0 | 6.51 | 88.1 ± 0.1 |
| 1200 | 20 | 6.65 | 10.5 | 4.30 | 2177 | 0.8 | 97.6 | 6.50 | 88.0 ± 0.2 |
| 1250 | 15 | 6.61 | 9.05 | 2.71 | 6459 | 0.9 | 98.4 | 6.51 | 88.1 ± 0.2 |
| 1300 | 10 | 6.68 | 12.0 | 6.02 | 2382 | 1.0 | 96.9 | 6.48 | 87.7 ± 0.2 |
| 1550 | 10 | 8.99 | 7.12 | 84.4 | 2013 | 1.0 | 71.9 | 6.48 | 87.7 ± 0.1 |
| | | | | | 6.35E ± 04 | | | 6.33 | 85.7 |

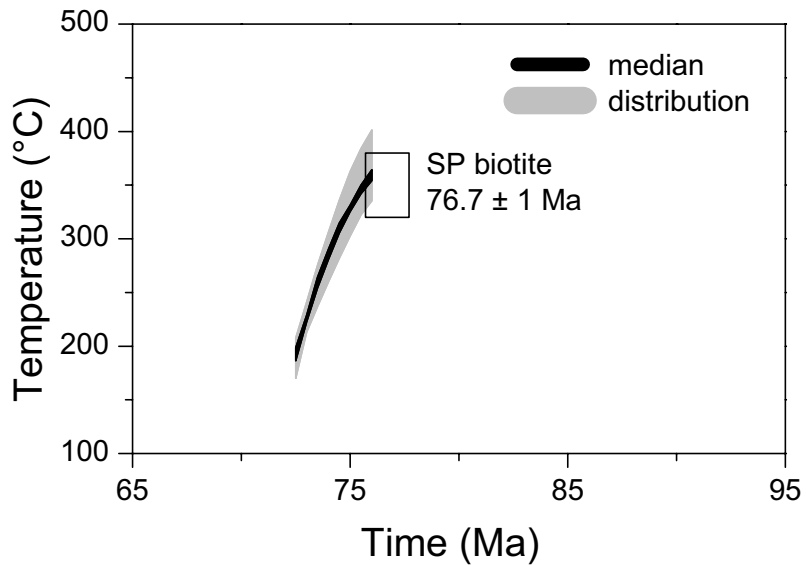
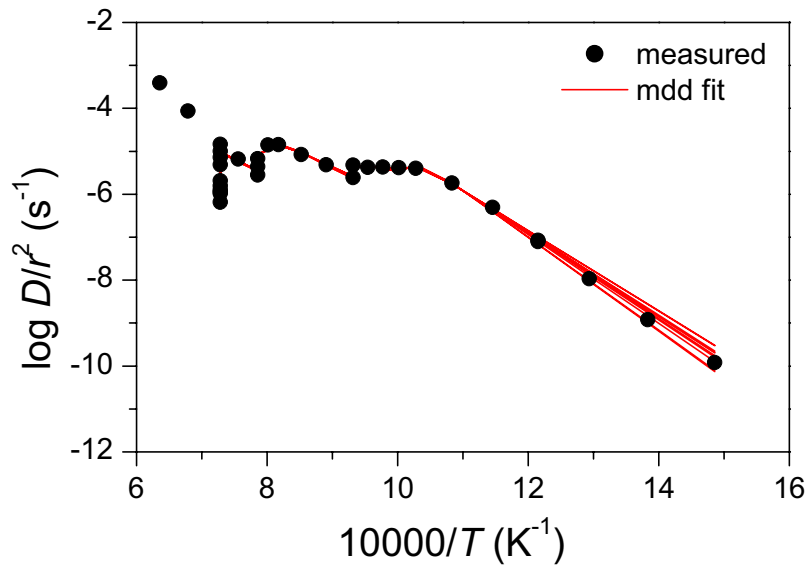
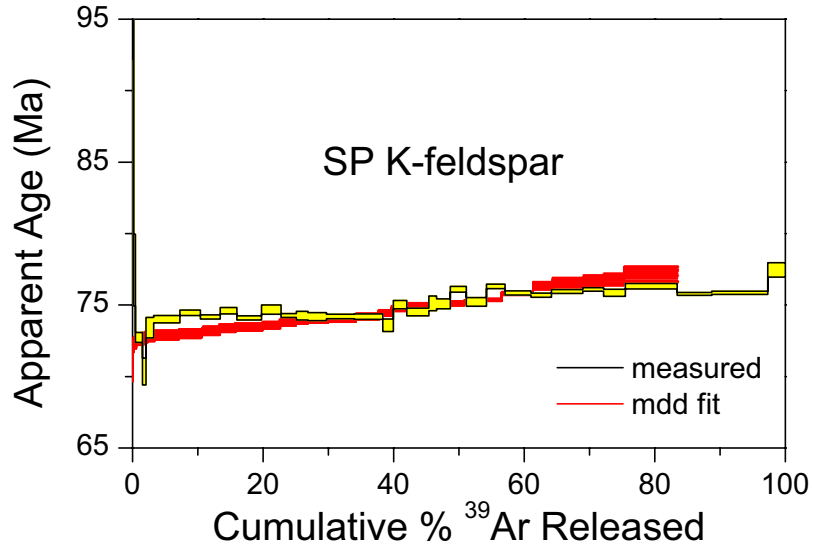
[†]K-Ar age = 85.7 Ma



SP K-feldspar 213.1 mg J=0.007640

| Temp (°C) | Time (min) | $^{40}\text{Ar}/^{39}\text{Ar}$ | $^{37}\text{Ar}/^{39}\text{Ar}$ $\times 10^{-3}$ | $^{36}\text{Ar}/^{39}\text{Ar}$ $\times 10^{-4}$ | ^{39}Ar $\times 10^{-15}$ (mol) | % ^{39}Ar | % $^{40}\text{Ar}^*$ | $^{40}\text{Ar}^*/^{39}\text{Ar}^*$ | Age [†] (Ma) |
|--------------|---------------|---------------------------------|---|---|---|--------------------|----------------------|-------------------------------------|--------------------------|
| 400 | 37 | 33.9 | 305 | 888 | 38.7 | 0.1 | 22.3 | 7.69 | 103.0 ± 10.8 |
| 450 | 27 | 21.9 | 144 | 445 | 73.2 | 0.2 | 39.3 | 8.72 | 116.3 ± 4.1 |
| 500 | 20 | 10.5 | 94.8 | 161 | 182 | 0.4 | 54.0 | 5.74 | 77.4 ± 2.5 |
| 550 | 34 | 6.38 | 37.1 | 33.0 | 705 | 1.4 | 84.0 | 5.38 | 72.7 ± 0.4 |
| 550 | 30 | 5.66 | 25.1 | 14.8 | 361 | 2.0 | 91.0 | 5.20 | 70.3 ± 0.9 |
| 600 | 17 | 5.94 | 21.6 | 16.2 | 812 | 3.1 | 91.2 | 5.44 | 73.4 ± 0.7 |
| 500 | 26 | 5.91 | -64.6 | 0.000 | 29.0 | 3.2 | 114.8 | 7.58 | 101.6 ± 16.1 |
| 650 | 30 | 5.72 | 19.0 | 7.39 | 2653 | 7.0 | 95.7 | 5.48 | 74.0 ± 0.2 |
| 700 | 18 | 5.65 | 27.4 | 3.76 | 2094 | 10.0 | 97.5 | 5.51 | 74.5 ± 0.2 |
| 725 | 23 | 5.59 | 34.8 | 2.65 | 2027 | 12.9 | 98.1 | 5.49 | 74.2 ± 0.1 |
| 750 | 23 | 5.59 | 38.7 | 1.41 | 1695 | 15.3 | 98.7 | 5.53 | 74.6 ± 0.2 |
| 775 | 42 | 5.61 | 38.5 | 3.43 | 2524 | 18.9 | 97.7 | 5.49 | 74.1 ± 0.1 |
| 800 | 35 | 5.63 | 33.4 | 2.80 | 1992 | 21.8 | 98.0 | 5.53 | 74.7 ± 0.3 |
| 800 | 60 | 5.59 | 28.2 | 2.18 | 1560 | 24.0 | 98.2 | 5.50 | 74.3 ± 0.1 |
| 750 | 22 | 5.61 | 24.3 | 0.000 | 137 | 24.2 | 97.9 | 5.64 | 76.1 ± 2.0 |
| 700 | 36 | 16.1 | 6.65 | 320 | 61.2 | 24.3 | 40.2 | 6.59 | 88.6 ± 4.1 |
| 600 | 470 | 7.88 | 25.5 | 108 | 35.4 | 24.4 | 55.1 | 4.65 | 63.0 ± 16.0 |
| 850 | 25 | 5.70 | 27.4 | 6.08 | 1184 | 26.1 | 96.2 | 5.50 | 74.2 ± 0.3 |
| 900 | 25 | 5.65 | 24.8 | 4.55 | 1887 | 28.8 | 97.1 | 5.49 | 74.2 ± 0.3 |
| 950 | 25 | 5.67 | 23.3 | 5.13 | 2841 | 32.8 | 96.8 | 5.50 | 74.2 ± 0.2 |
| 975 | 30 | 5.71 | 27.6 | 6.64 | 2939 | 37.1 | 96.1 | 5.49 | 74.2 ± 0.2 |
| 1000 | 24 | 5.70 | 23.3 | 7.66 | 1049 | 38.6 | 95.3 | 5.45 | 73.6 ± 0.4 |
| 1000 | 51 | 5.78 | 20.8 | 6.64 | 1391 | 40.6 | 96.0 | 5.56 | 75.0 ± 0.3 |
| 1000 | 137 | 5.75 | 23.1 | 6.95 | 2245 | 43.8 | 95.9 | 5.52 | 74.5 ± 0.3 |
| 950 | 15 | 5.96 | 21.6 | 11.4 | 109 | 43.9 | 91.2 | 5.60 | 75.6 ± 2.8 |
| 900 | 20 | 5.82 | 26.6 | 3.28 | 39.6 | 44.0 | 90.1 | 5.70 | 76.9 ± 1.9 |
| 850 | 32 | 5.85 | -8.49 | 0.000 | 20.7 | 44.0 | 105.3 | 7.17 | 96.3 ± 46.0 |
| 800 | 46 | 6.55 | -133 | 0.000 | 9.49 | 44.0 | 94.6 | 8.19 | 109.5 ± 182.5 |
| 1050 | 22 | 5.87 | 44.7 | 9.72 | 799 | 45.2 | 94.4 | 5.57 | 75.1 ± 0.5 |
| 1100 | 18 | 5.90 | 79.0 | 10.8 | 1384 | 47.2 | 94.1 | 5.56 | 75.1 ± 0.3 |
| 1100 | 32 | 5.89 | 54.7 | 7.81 | 1655 | 49.5 | 95.6 | 5.64 | 76.1 ± 0.2 |
| 1100 | 61 | 5.86 | 40.0 | 9.06 | 2038 | 52.5 | 94.9 | 5.57 | 75.2 ± 0.3 |
| 1100 | 90 | 5.84 | 27.5 | 5.61 | 1912 | 55.2 | 96.6 | 5.66 | 76.3 ± 0.2 |
| 1050 | 468 | 5.94 | 17.1 | 10.7 | 2607 | 58.9 | 94.2 | 5.60 | 75.6 ± 0.2 |
| 1100 | 321 | 5.90 | 15.3 | 8.85 | 2644 | 62.7 | 95.1 | 5.62 | 75.9 ± 0.1 |
| 1100 | 360 | 5.95 | 12.6 | 10.7 | 2082 | 65.7 | 94.2 | 5.61 | 75.7 ± 0.1 |
| 1100 | 780 | 5.97 | 6.80 | 10.7 | 3204 | 70.3 | 94.2 | 5.63 | 76.0 ± 0.1 |
| 1100 | 660 | 6.06 | 6.70 | 13.4 | 2135 | 73.4 | 92.9 | 5.64 | 76.1 ± 0.1 |
| 1100 | 840 | 6.07 | 5.71 | 14.3 | 2221 | 76.6 | 92.5 | 5.62 | 75.9 ± 0.3 |
| 1100 | 4065 | 6.29 | 3.79 | 20.7 | 5281 | 84.1 | 89.9 | 5.66 | 76.3 ± 0.2 |
| 1200 | 30 | 5.83 | 3.27 | 6.34 | 3532 | 89.2 | 96.3 | 5.62 | 75.8 ± 0.1 |
| 1300 | 25 | 5.85 | 3.26 | 7.09 | 5727 | 97.4 | 96.0 | 5.62 | 75.9 ± 0.1 |
| 1550 | 15 | 11.0 | 4.45 | 177 | 1790 | 100.0 | 52.1 | 5.74 | 77.5 ± 0.5 |

†K-Ar age = 75.3 Ma



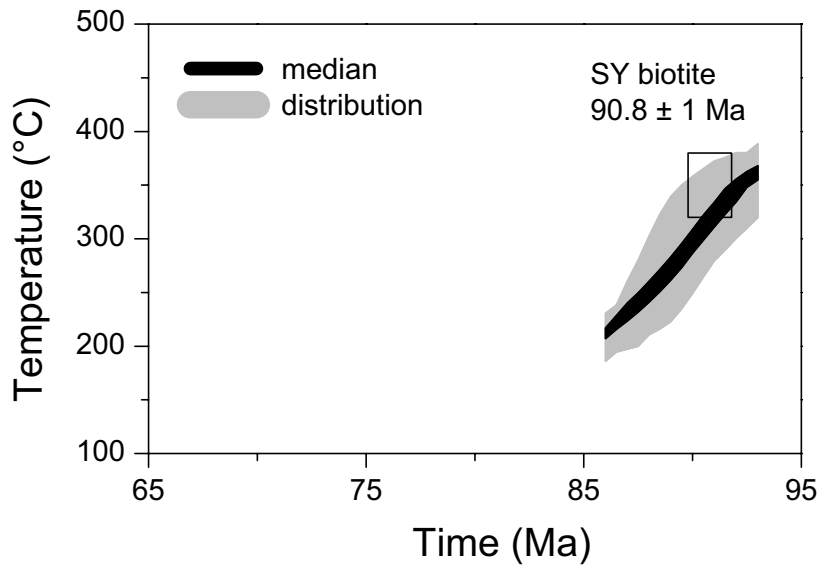
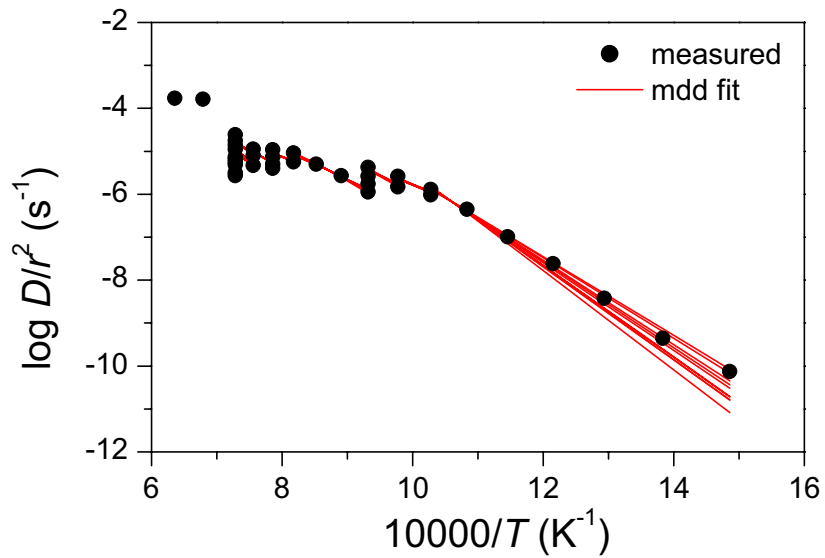
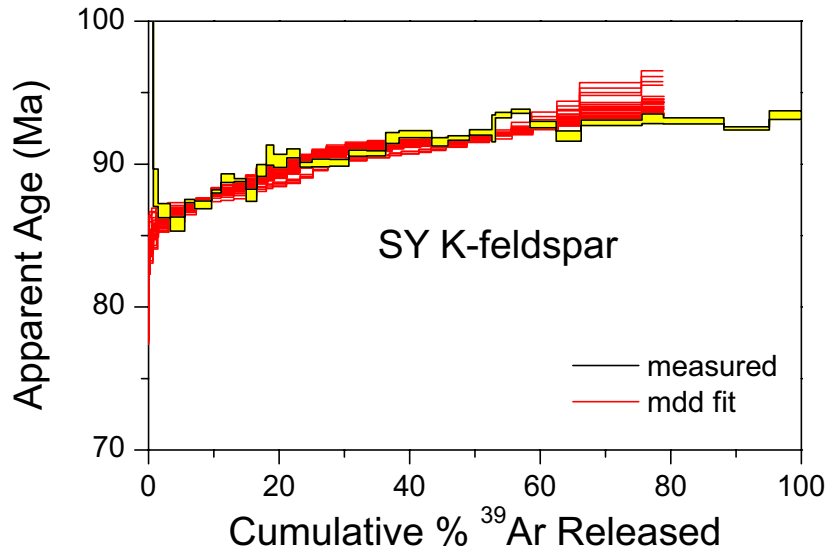
SY K-Keldspar 191.1 mg J=0.007794

| Temp (°C) | Time (h) | $^{40}\text{Ar}/^{39}\text{Ar}$ | $^{37}\text{Ar}/^{39}\text{Ar}$ $\times 10^{-3}$ | $^{36}\text{Ar}/^{39}\text{Ar}$ $\times 10^{-4}$ | ^{39}Ar $\times 10^{-15}$ (mol) | % ^{39}Ar | % $^{40}\text{Ar}^*$ | $^{40}\text{Ar}^*/^{39}\text{Ar}^*$ | Age [†] (Ma) |
|--------------|-------------|---------------------------------|---|---|---|--------------------|----------------------|-------------------------------------|--------------------------|
| 400 | 23 | 86.7 | 118 | 2210 | 18.4 | 0.0 | 23.8 | 21.26 | 276.6 ± 28.7 |
| 450 | 25 | 50.1 | 170 | 1110 | 32.0 | 0.1 | 33.8 | 17.47 | 230.3 ± 14.5 |
| 500 | 15 | 25.4 | 36.6 | 350 | 66.9 | 0.2 | 57.6 | 15.08 | 200.5 ± 6.8 |
| 550 | 26 | 10.3 | 21.4 | 80.1 | 255 | 0.7 | 75.4 | 7.91 | 107.9 ± 2.3 |
| 500 | 55 | 7.29 | 19.2 | 9.72 | 39.9 | 0.8 | 81.7 | 6.98 | 95.6 ± 1.2 |
| 600 | 20 | 8.15 | 40.2 | 57.0 | 366 | 1.5 | 88.5 | 6.44 | 88.4 ± 1.3 |
| 500 | 64 | 6.98 | 72.9 | 5.55 | 28.0 | 1.6 | 77.6 | 6.80 | 93.2 ± 1.7 |
| 650 | 26 | 7.45 | 38.2 | 37.5 | 952 | 3.4 | 84.3 | 6.32 | 86.7 ± 0.5 |
| 700 | 20 | 6.67 | 41.5 | 13.6 | 1140 | 5.6 | 93.1 | 6.25 | 85.8 ± 0.5 |
| 700 | 26 | 6.37 | 36.1 | 0.000 | 768 | 7.1 | 99.1 | 6.37 | 87.4 ± 0.1 |
| 750 | 22 | 6.62 | 48.3 | 8.48 | 1330 | 9.7 | 95.4 | 6.35 | 87.1 ± 0.3 |
| 750 | 27 | 6.42 | 44.3 | 0.000 | 749 | 11.1 | 98.9 | 6.42 | 88.1 ± 0.1 |
| 800 | 15 | 6.98 | 55.8 | 16.0 | 1010 | 13.1 | 92.3 | 6.49 | 89.0 ± 0.3 |
| 800 | 26 | 6.51 | 46.5 | 0.402 | 944 | 14.9 | 98.7 | 6.48 | 88.9 ± 0.1 |
| 800 | 38 | 6.57 | 48.2 | 5.12 | 811 | 16.5 | 96.5 | 6.40 | 87.8 ± 0.4 |
| 800 | 61 | 6.65 | 40.2 | 3.29 | 768 | 18.0 | 97.3 | 6.53 | 89.6 ± 0.4 |
| 750 | 13 | 6.64 | 83.1 | 5.38 | 43.5 | 18.0 | 83.0 | 6.46 | 88.6 ± 1.1 |
| 700 | 42 | 6.81 | 31.2 | 0.000 | 33.9 | 18.1 | 98.8 | 8.19 | 111.6 ± 14.0 |
| 550 | 447 | 30.4 | 128 | 519 | 4.80 | 18.1 | 36.9 | 15.06 | 200.2 ± 71.8 |
| 850 | 20 | 7.21 | 49.9 | 19.4 | 561 | 19.2 | 90.7 | 6.61 | 90.6 ± 0.7 |
| 900 | 21 | 7.69 | 50.5 | 37.0 | 1020 | 21.2 | 85.0 | 6.58 | 90.2 ± 0.5 |
| 950 | 13 | 7.22 | 40.5 | 19.6 | 1040 | 23.2 | 91.1 | 6.62 | 90.8 ± 0.3 |
| 950 | 21 | 6.61 | 25.4 | 1.28 | 954 | 25.0 | 98.3 | 6.56 | 90.0 ± 0.2 |
| 1000 | 17 | 6.69 | 23.1 | 3.48 | 1360 | 27.7 | 97.6 | 6.57 | 90.1 ± 0.3 |
| 1000 | 31 | 6.70 | 18.9 | 3.54 | 1510 | 30.6 | 97.7 | 6.57 | 90.1 ± 0.2 |
| 1000 | 46 | 6.79 | 18.2 | 5.06 | 1400 | 33.3 | 97.0 | 6.62 | 90.8 ± 0.2 |
| 1000 | 65 | 6.82 | 18.0 | 6.05 | 1460 | 36.1 | 96.6 | 6.62 | 90.8 ± 0.2 |
| 950 | 13 | 6.87 | 25.6 | 9.07 | 106 | 36.3 | 89.6 | 6.58 | 90.2 ± 0.8 |
| 900 | 20 | 6.58 | 33.7 | 0.000 | 52.0 | 36.4 | 87.2 | 6.58 | 90.2 ± 0.6 |
| 850 | 79 | 7.12 | 15.1 | 0.000 | 58.8 | 36.5 | 90.4 | 7.20 | 98.5 ± 1.6 |
| 800 | 135 | 8.80 | -6.95 | 28.7 | 30.3 | 36.6 | 75.9 | 7.93 | 108.2 ± 2.3 |
| 700 | 660 | 21.0 | -8.36 | 367 | 12.9 | 36.6 | 40.8 | 10.14 | 137.2 ± 25.9 |
| 1050 | 18 | 6.90 | 24.3 | 5.99 | 1050 | 38.7 | 96.5 | 6.70 | 91.8 ± 0.4 |
| 1050 | 31 | 6.84 | 20.6 | 3.43 | 1210 | 41.0 | 97.6 | 6.72 | 92.1 ± 0.2 |
| 1100 | 12 | 6.95 | 33.3 | 6.83 | 1340 | 43.6 | 96.3 | 6.72 | 92.1 ± 0.3 |
| 1100 | 17 | 6.96 | 32.5 | 8.87 | 1290 | 46.1 | 95.4 | 6.68 | 91.6 ± 0.3 |
| 1100 | 30 | 7.05 | 34.3 | 11.2 | 1680 | 49.4 | 94.6 | 6.70 | 91.8 ± 0.2 |
| 1100 | 42 | 7.17 | 34.0 | 14.3 | 1750 | 52.7 | 93.5 | 6.73 | 92.2 ± 0.2 |
| 1050 | 15 | 7.35 | 42.0 | 19.4 | 251 | 53.2 | 89.5 | 6.75 | 92.5 ± 0.9 |
| 1000 | 30 | 7.55 | 40.8 | 6.25 | 160 | 53.5 | 93.4 | 7.35 | 100.5 ± 0.7 |
| 950 | 30 | 7.63 | 11.4 | 2.48 | 57.9 | 53.6 | 88.7 | 7.53 | 102.9 ± 0.9 |
| 850 | 268 | 9.99 | 54.1 | 47.7 | 46.4 | 53.7 | 77.3 | 8.56 | 116.5 ± 4.3 |
| 1100 | 50 | 7.25 | 30.9 | 13.9 | 1250 | 56.2 | 93.5 | 6.82 | 93.4 ± 0.2 |
| 1100 | 70 | 7.46 | 36.4 | 20.1 | 1470 | 59.0 | 91.4 | 6.84 | 93.7 ± 0.2 |
| 1100 | 123 | 7.54 | 40.3 | 25.3 | 2030 | 62.9 | 89.5 | 6.77 | 92.8 ± 0.2 |

SY K-Keldspar (continued)

| Temp (°C) | Time (min) | ⁴⁰ Ar/ ³⁹ Ar | ³⁷ Ar/ ³⁹ Ar x10 ⁻³ | ³⁶ Ar/ ³⁹ Ar x10 ⁻⁴ | ³⁹ Ar x10 ⁻¹⁵ (mol) | % ³⁹ Ar | % ⁴⁰ Ar* | ⁴⁰ Ar*/ ³⁹ Ar _K | Age† (Ma) |
|--------------|---------------|------------------------------------|---|---|--|--------------------|---------------------|--|--------------|
| 1100 | 150 | 7.60 | 40.9 | 29.5 | 1950 | 66.7 | 88.0 | 6.71 | 92.0 ± 0.4 |
| 1100 | 694 | 7.64 | 35.9 | 28.6 | 4760 | 75.9 | 88.6 | 6.78 | 92.9 ± 0.2 |
| 1100 | 360 | 7.65 | 31.5 | 28.1 | 1670 | 79.1 | 88.5 | 6.80 | 93.2 ± 0.3 |
| 1200 | 24 | 7.10 | 19.5 | 9.71 | 4740 | 88.3 | 95.5 | 6.79 | 93.0 ± 0.2 |
| 1300 | 35 | 7.15 | 10.3 | 12.6 | 3550 | 95.2 | 94.3 | 6.75 | 92.5 ± 0.1 |
| 1550 | 20 | 9.00 | 22.9 | 73.0 | 2490 | 100.0 | 75.6 | 6.82 | 93.4 ± 0.3 |

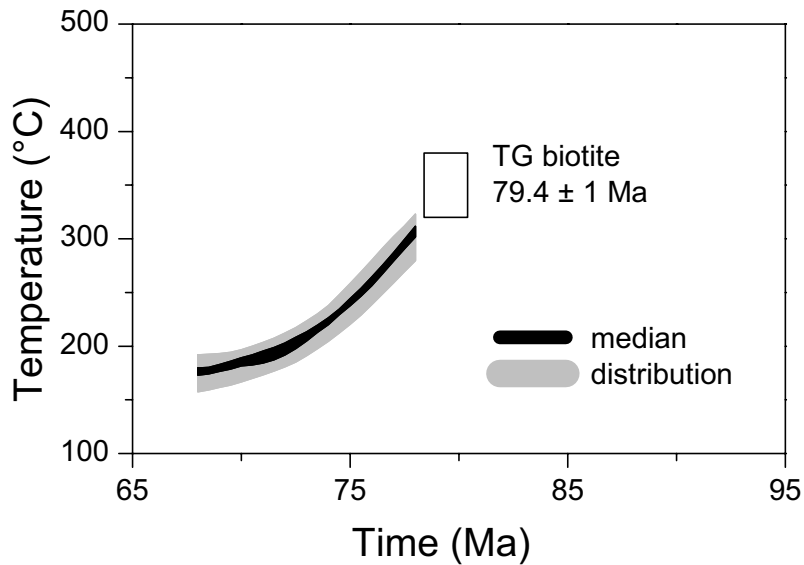
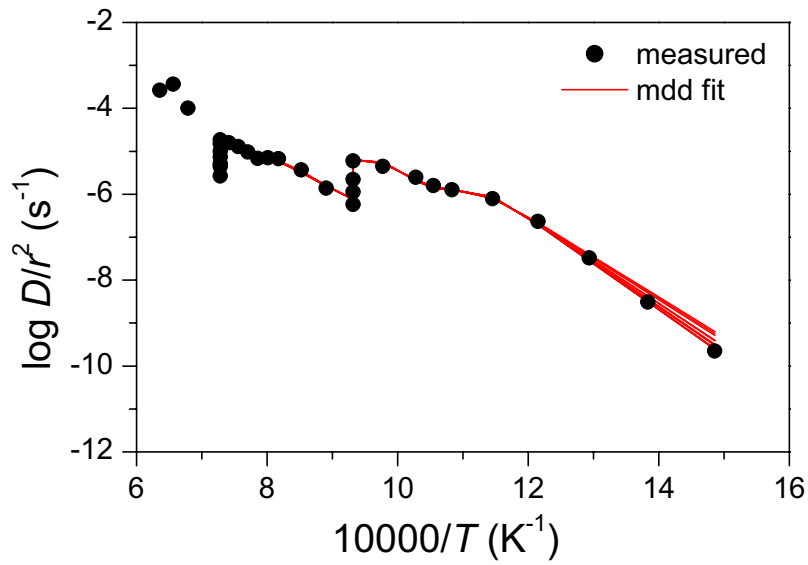
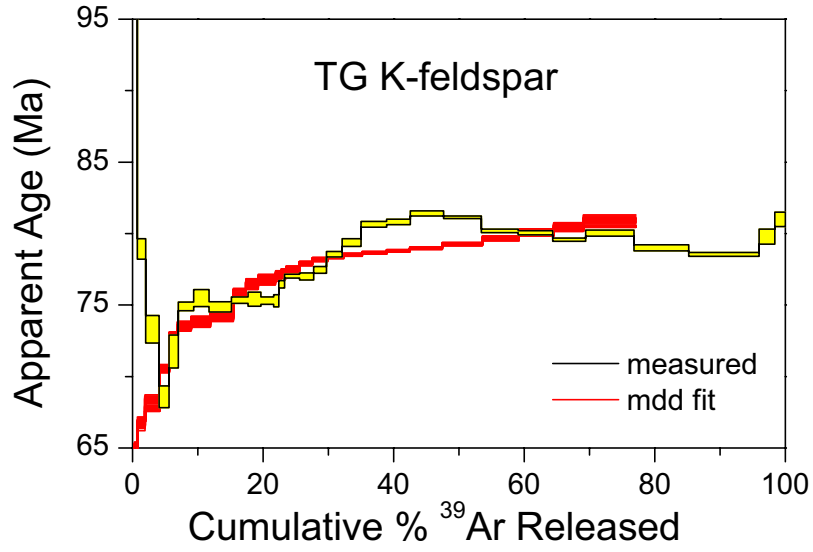
*K-Ar age = 91.9 Ma



TG K-feldspar 211.5 mg J=0.007675

| Temp (°C) | Time (h) | $^{40}\text{Ar}/^{39}\text{Ar}$ | $^{37}\text{Ar}/^{39}\text{Ar}$ $\times 10^{-3}$ | $^{36}\text{Ar}/^{39}\text{Ar}$ $\times 10^{-4}$ | ^{39}Ar $\times 10^{-15}$ (mol) | % ^{39}Ar | % $^{40}\text{Ar}^*$ | $^{40}\text{Ar}^*/^{39}\text{Ar}^*$ | Age [†] (Ma) |
|--------------|-------------|---------------------------------|---|---|---|--------------------|----------------------|-------------------------------------|--------------------------|
| 400 | 22 | 39.5 | 252 | 714 | 41.4 | 0.1 | 46.0 | 18.37 | 238.0 ± 13.2 |
| 450 | 19 | 23.8 | 52.7 | 295 | 107 | 0.2 | 62.7 | 15.03 | 196.9 ± 3.7 |
| 500 | 20 | 9.15 | 14.0 | 56.8 | 354 | 0.7 | 80.9 | 7.45 | 100.3 ± 1.0 |
| 550 | 20 | 6.34 | 15.7 | 16.7 | 866 | 2.0 | 91.5 | 5.83 | 78.9 ± 0.7 |
| 500 | 24 | 5.62 | 3.18 | 14.7 | 100 | 2.2 | 88.7 | 5.16 | 70.1 ± 2.2 |
| 600 | 21 | 5.75 | 20.3 | 10.9 | 1398 | 4.2 | 93.8 | 5.40 | 73.3 ± 1.0 |
| 500 | 36 | 5.60 | 12.7 | 1.07 | 87.3 | 4.3 | 95.1 | 5.55 | 75.3 ± 1.0 |
| 650 | 15 | 5.41 | 19.6 | 11.4 | 1015 | 5.8 | 93.0 | 5.05 | 68.6 ± 0.8 |
| 675 | 15 | 5.43 | 16.2 | 4.06 | 976 | 7.3 | 97.0 | 5.29 | 71.8 ± 1.1 |
| 700 | 20 | 5.57 | 13.6 | 0.763 | 1571 | 9.6 | 99.0 | 5.52 | 74.9 ± 0.3 |
| 750 | 15 | 5.72 | 17.4 | 4.51 | 1621 | 12.0 | 97.1 | 5.57 | 75.5 ± 0.6 |
| 800 | 20 | 5.68 | 23.3 | 4.48 | 2293 | 15.3 | 97.1 | 5.52 | 74.9 ± 0.4 |
| 800 | 50 | 5.60 | 18.6 | 0.700 | 1735 | 17.9 | 99.0 | 5.56 | 75.3 ± 0.2 |
| 800 | 85 | 5.65 | 16.5 | 2.34 | 1319 | 19.8 | 98.1 | 5.56 | 75.4 ± 0.5 |
| 800 | 187 | 5.72 | 16.1 | 4.78 | 1358 | 21.8 | 96.9 | 5.55 | 75.3 ± 0.3 |
| 750 | 70 | 5.92 | 20.7 | 36.2 | 103 | 22.0 | 79.0 | 4.83 | 65.6 ± 2.6 |
| 700 | 70 | 6.75 | -112 | 79.7 | 26.3 | 22.0 | 58.1 | 4.36 | 59.4 ± 15.8 |
| 600 | 1129 | 18.1 | -81.5 | 453 | 20.5 | 22.0 | 24.4 | 4.65 | 63.3 ± 15.1 |
| 850 | 31 | 5.82 | 25.0 | 8.34 | 502 | 22.8 | 94.7 | 5.55 | 75.3 ± 0.4 |
| 900 | 15 | 5.80 | 20.4 | 4.66 | 622 | 23.7 | 96.7 | 5.64 | 76.5 ± 0.3 |
| 950 | 22 | 5.79 | 18.0 | 2.97 | 1565 | 26.0 | 97.9 | 5.68 | 77.0 ± 0.1 |
| 975 | 21 | 5.84 | 13.4 | 4.71 | 1436 | 28.1 | 97.0 | 5.68 | 77.0 ± 0.2 |
| 1000 | 22 | 5.94 | 9.38 | 6.80 | 1342 | 30.1 | 96.0 | 5.72 | 77.5 ± 0.2 |
| 1025 | 20 | 6.01 | 13.5 | 6.40 | 1615 | 32.4 | 96.3 | 5.80 | 78.6 ± 0.2 |
| 1050 | 20 | 6.08 | 12.5 | 6.77 | 1982 | 35.3 | 96.2 | 5.86 | 79.4 ± 0.3 |
| 1075 | 24 | 6.14 | 14.1 | 5.34 | 2647 | 39.2 | 96.9 | 5.96 | 80.7 ± 0.2 |
| 1100 | 21 | 6.19 | 17.6 | 6.62 | 2444 | 42.8 | 96.4 | 5.97 | 80.8 ± 0.2 |
| 1100 | 40 | 6.22 | 13.0 | 6.12 | 3451 | 47.9 | 96.6 | 6.01 | 81.4 ± 0.2 |
| 1100 | 78 | 6.20 | 12.8 | 6.15 | 3927 | 53.7 | 96.6 | 5.99 | 81.1 ± 0.1 |
| 1100 | 120 | 6.20 | 11.4 | 8.66 | 3805 | 59.3 | 95.4 | 5.92 | 80.2 ± 0.1 |
| 1100 | 185 | 6.21 | 9.49 | 9.34 | 3584 | 64.5 | 95.1 | 5.91 | 80.1 ± 0.1 |
| 1100 | 240 | 6.21 | 8.55 | 10.5 | 3444 | 69.6 | 94.6 | 5.88 | 79.6 ± 0.1 |
| 1100 | 705 | 6.26 | 4.41 | 11.0 | 4986 | 76.9 | 94.4 | 5.91 | 80.0 ± 0.2 |
| 1200 | 30 | 6.08 | 5.02 | 7.63 | 5677 | 85.3 | 95.9 | 5.83 | 79.0 ± 0.2 |
| 1250 | 24 | 6.04 | 4.31 | 7.27 | 7306 | 96.0 | 96.0 | 5.80 | 78.6 ± 0.1 |
| 1300 | 23 | 6.30 | 1.66 | 13.2 | 1622 | 98.4 | 93.3 | 5.89 | 79.8 ± 0.5 |
| 1550 | 12 | 16.2 | 8.55 | 346 | 1107 | 100.0 | 36.8 | 5.98 | 81.0 ± 0.5 |

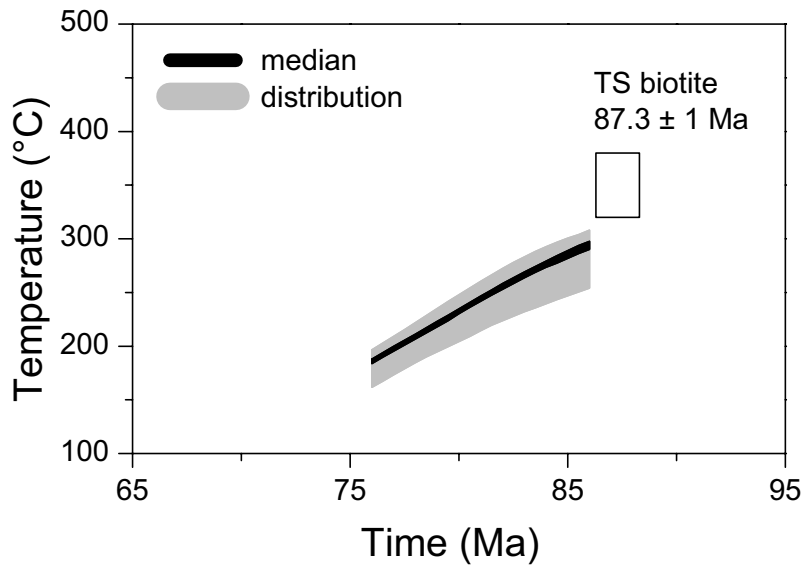
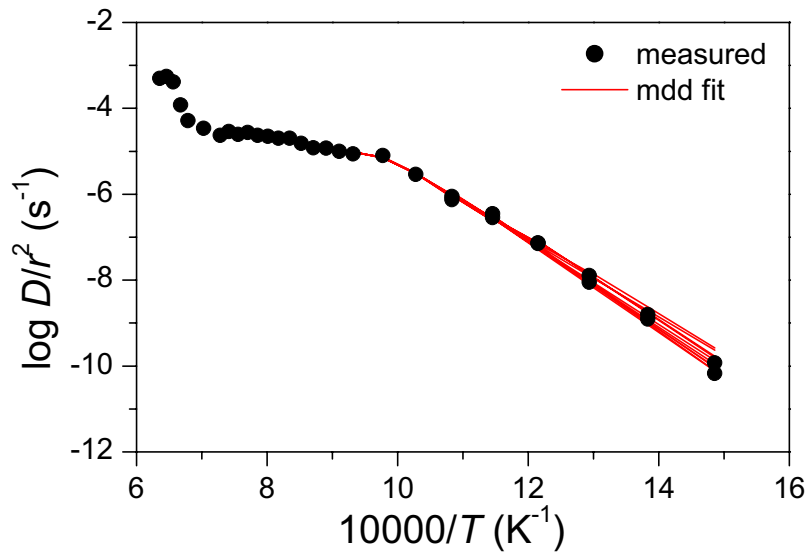
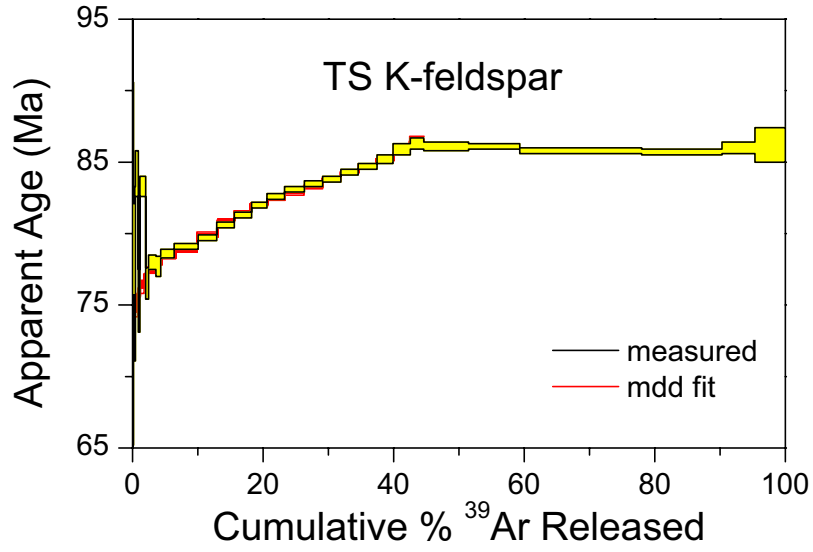
[†]K-Ar age = 78.9 Ma



TS K-feldspar 13.64 mg J=0.007725

| Temp (°C) | Time (h) | $^{40}\text{Ar}/^{39}\text{Ar}$ | $^{37}\text{Ar}/^{39}\text{Ar}$ $\times 10^{-3}$ | $^{36}\text{Ar}/^{39}\text{Ar}$ $\times 10^{-4}$ | ^{39}Ar $\times 10^{-15}$ (mol) | % ^{39}Ar | % $^{40}\text{Ar}^*$ | $^{40}\text{Ar}^*/^{39}\text{Ar}^*$ | Age [†] (Ma) |
|--------------|-------------|---------------------------------|---|---|---|--------------------|----------------------|-------------------------------------|--------------------------|
| 400 | 10 | 50.92 | 16.12 | 1490 | 0.5430 | 0.0226 | 13.7 | 7.21 | 98 ± 84 |
| 400 | 10 | 43.77 | 21.70 | 1206 | 0.5404 | 0.0375 | 18.2 | 8.30 | 112 ± 50 |
| 450 | 10 | 17.67 | 11.49 | 401.1 | 2.410 | 0.104 | 32.3 | 5.84 | 79.6 ± 9.0 |
| 450 | 10 | 17.90 | 11.99 | 415.4 | 1.695 | 0.151 | 31.0 | 5.71 | 77.9 ± 12.7 |
| 500 | 10 | 10.50 | 6.669 | 158.7 | 7.055 | 0.346 | 54.4 | 5.79 | 78.9 ± 3.2 |
| 500 | 10 | 11.43 | 4.680 | 194.4 | 3.148 | 0.433 | 47.8 | 5.66 | 77.2 ± 6.1 |
| 550 | 10 | 8.755 | 12.21 | 86.40 | 15.69 | 0.868 | 70.1 | 6.18 | 84.2 ± 1.6 |
| 550 | 10 | 8.232 | 0.9425 | 91.02 | 9.705 | 1.14 | 66.2 | 5.52 | 75.3 ± 2.2 |
| 600 | 10 | 7.412 | 8.002 | 43.12 | 30.73 | 1.99 | 82.1 | 6.11 | 83.3 ± 0.7 |
| 600 | 10 | 6.848 | 0.2114 | 41.11 | 17.55 | 2.47 | 81.1 | 5.61 | 76.5 ± 1.1 |
| 650 | 10 | 6.336 | 1.545 | 20.32 | 40.45 | 3.59 | 89.8 | 5.72 | 78.0 ± 0.5 |
| 650 | 10 | 6.333 | 0.0211 | 20.59 | 25.90 | 4.31 | 89.3 | 5.70 | 77.7 ± 0.7 |
| 700 | 10 | 6.133 | 0.8610 | 11.62 | 74.88 | 6.38 | 93.7 | 5.77 | 78.6 ± 0.3 |
| 750 | 10 | 6.034 | 0.1290 | 7.121 | 132.6 | 10.1 | 95.9 | 5.80 | 79.1 ± 0.2 |
| 775 | 10 | 6.051 | 0.2705 | 6.040 | 103.5 | 12.9 | 96.4 | 5.85 | 79.7 ± 0.2 |
| 800 | 10 | 6.112 | 0.2603 | 5.894 | 96.41 | 15.6 | 96.5 | 5.92 | 80.6 ± 0.2 |
| 825 | 10 | 6.149 | 0.2177 | 5.306 | 96.37 | 18.2 | 96.7 | 5.97 | 81.3 ± 0.2 |
| 850 | 10 | 6.202 | 0.1246 | 5.321 | 85.41 | 20.6 | 96.7 | 6.02 | 82.0 ± 0.2 |
| 875 | 10 | 6.200 | 0.0382 | 3.875 | 95.83 | 23.3 | 97.4 | 6.06 | 82.6 ± 0.2 |
| 900 | 10 | 6.256 | 0.3245 | 4.483 | 111.1 | 26.3 | 97.2 | 6.10 | 83.1 ± 0.2 |
| 925 | 10 | 6.295 | 0.4752 | 4.806 | 100.0 | 29.1 | 96.9 | 6.13 | 83.5 ± 0.2 |
| 950 | 10 | 6.348 | 0.8023 | 5.876 | 101.1 | 31.9 | 96.4 | 6.15 | 83.8 ± 0.2 |
| 975 | 10 | 6.440 | 1.170 | 7.591 | 96.70 | 34.6 | 95.5 | 6.19 | 84.3 ± 0.2 |
| 1000 | 10 | 6.567 | 1.756 | 10.94 | 103.9 | 37.5 | 94.0 | 6.22 | 84.7 ± 0.2 |
| 1025 | 10 | 6.832 | 2.290 | 18.59 | 88.38 | 39.9 | 90.7 | 6.26 | 85.2 ± 0.3 |
| 1025 | 15 | 7.044 | 2.748 | 24.02 | 95.75 | 42.5 | 88.7 | 6.31 | 85.9 ± 0.4 |
| 1050 | 10 | 7.070 | 3.212 | 23.90 | 74.60 | 44.6 | 88.4 | 6.34 | 86.3 ± 0.4 |
| 1075 | 10 | 6.924 | 3.570 | 19.40 | 103.2 | 47.5 | 90.2 | 6.33 | 86.1 ± 0.3 |
| 1100 | 10 | 6.865 | 3.853 | 17.30 | 145.0 | 51.5 | 91.3 | 6.33 | 86.1 ± 0.3 |
| 1125 | 10 | 6.726 | 4.135 | 12.68 | 283.4 | 59.3 | 93.5 | 6.33 | 86.1 ± 0.2 |
| 1150 | 10 | 6.579 | 3.235 | 8.343 | 673.9 | 78.0 | 95.6 | 6.31 | 85.8 ± 0.2 |
| 1175 | 10 | 6.659 | 2.605 | 11.48 | 444.7 | 90.3 | 94.1 | 6.30 | 85.7 ± 0.2 |
| 1200 | 10 | 7.196 | 2.378 | 28.93 | 182.2 | 95.3 | 86.8 | 6.32 | 86.0 ± 0.4 |
| 1350 | 10 | 9.100 | 2.837 | 92.70 | 169.1 | 100 | 66.3 | 6.34 | 86.2 ± 1.2 |

[†]K-Ar age = 84.3 Ma



YS K-feldspar 231.3 mg J=0.007880

| Temp (°C) | Time (h) | $^{40}\text{Ar}/^{39}\text{Ar}$ | $^{37}\text{Ar}/^{39}\text{Ar}$ $\times 10^{-3}$ | $^{36}\text{Ar}/^{39}\text{Ar}$ $\times 10^{-4}$ | ^{39}Ar $\times 10^{-15}$ (mol) | % ^{39}Ar | % $^{40}\text{Ar}^*$ | $^{40}\text{Ar}^*/^{39}\text{Ar}^*$ | Age [†] (Ma) |
|--------------|-------------|---------------------------------|---|---|---|--------------------|----------------------|-------------------------------------|--------------------------|
| 500 | 10 | 9.656 | 29.29 | 158.2 | 65.95 | 0.502 | 51.1 | 4.96 | 70.5 ± 0.6 |
| 550 | 10 | 6.948 | 121.4 | 65.79 | 159.0 | 1.71 | 71.6 | 4.99 | 71.0 ± 0.1 |
| 600 | 10 | 6.077 | 77.73 | 32.07 | 248.5 | 3.61 | 83.9 | 5.11 | 72.7 ± 0.2 |
| 650 | 13 | 5.745 | 110.1 | 18.90 | 350.7 | 6.28 | 89.8 | 5.17 | 73.5 ± 0.1 |
| 675 | 10 | 5.470 | 268.7 | 9.570 | 215.7 | 7.92 | 94.5 | 5.18 | 73.7 ± 0.1 |
| 700 | 10 | 5.436 | 195.7 | 8.197 | 197.4 | 9.42 | 95.1 | 5.18 | 73.7 ± 0.1 |
| 725 | 13 | 5.385 | 220.1 | 6.078 | 175.5 | 10.8 | 96.2 | 5.20 | 73.9 ± 0.1 |
| 750 | 10 | 5.542 | 116.1 | 11.31 | 166.3 | 12.0 | 93.4 | 5.19 | 73.8 ± 0.1 |
| 775 | 10 | 5.872 | 115.0 | 22.14 | 167.9 | 13.3 | 88.3 | 5.20 | 74.0 ± 0.1 |
| 800 | 10 | 5.392 | 141.3 | 5.500 | 136.7 | 14.3 | 96.4 | 5.21 | 74.2 ± 0.1 |
| 825 | 10 | 5.678 | 134.5 | 15.29 | 143.6 | 15.4 | 91.5 | 5.21 | 74.1 ± 0.1 |
| 850 | 10 | 5.963 | 121.0 | 24.77 | 159.6 | 16.7 | 87.2 | 5.21 | 74.2 ± 0.1 |
| 875 | 10 | 6.170 | 127.6 | 30.81 | 151.3 | 17.8 | 84.7 | 5.24 | 74.6 ± 0.2 |
| 900 | 10 | 6.047 | 111.5 | 27.22 | 173.2 | 19.1 | 86.2 | 5.23 | 74.3 ± 0.1 |
| 925 | 10 | 5.568 | 111.8 | 10.13 | 172.7 | 20.4 | 94.0 | 5.25 | 74.7 ± 0.2 |
| 950 | 10 | 5.472 | 103.9 | 6.304 | 185.9 | 21.9 | 96.0 | 5.27 | 74.9 ± 0.1 |
| 975 | 10 | 5.492 | 90.23 | 7.068 | 214.0 | 23.5 | 95.6 | 5.26 | 74.8 ± 0.1 |
| 1000 | 14 | 5.513 | 65.95 | 8.034 | 292.8 | 25.7 | 95.1 | 5.25 | 74.7 ± 0.1 |
| 1025 | 10 | 5.550 | 77.25 | 9.516 | 250.0 | 27.6 | 94.4 | 5.25 | 74.6 ± 0.2 |
| 1050 | 12 | 5.589 | 58.59 | 10.64 | 329.6 | 30.1 | 93.8 | 5.25 | 74.7 ± 0.1 |
| 1050 | 10 | 5.630 | 102.0 | 11.73 | 189.4 | 31.6 | 93.3 | 5.27 | 74.9 ± 0.1 |
| 1075 | 10 | 5.676 | 95.13 | 13.01 | 203.0 | 33.1 | 92.7 | 5.27 | 75.0 ± 0.1 |
| 1075 | 10 | 5.746 | 101.5 | 14.84 | 190.4 | 34.6 | 91.8 | 5.29 | 75.2 ± 0.1 |
| 1100 | 10 | 5.878 | 299.3 | 19.18 | 258.1 | 36.5 | 90.2 | 5.31 | 75.5 ± 0.1 |
| 1100 | 10 | 5.990 | 90.30 | 22.66 | 213.9 | 38.2 | 88.3 | 5.30 | 75.4 ± 0.1 |
| 1125 | 10 | 6.136 | 122.2 | 27.65 | 316.1 | 40.6 | 86.3 | 5.30 | 75.4 ± 0.2 |
| 1125 | 10 | 6.290 | 86.63 | 32.60 | 223.0 | 42.3 | 84.2 | 5.31 | 75.4 ± 0.2 |
| 1150 | 10 | 6.404 | 122.3 | 35.59 | 315.8 | 44.7 | 83.2 | 5.34 | 75.9 ± 0.2 |
| 1150 | 10 | 6.541 | 129.9 | 39.92 | 297.4 | 46.9 | 81.6 | 5.35 | 76.0 ± 0.1 |
| 1150 | 10 | 6.687 | 140.4 | 44.96 | 275.1 | 49.0 | 79.7 | 5.34 | 76.0 ± 0.2 |
| 1175 | 10 | 6.754 | 78.91 | 46.51 | 489.5 | 52.8 | 79.2 | 5.36 | 76.2 ± 0.2 |
| 1175 | 10 | 6.620 | 84.13 | 40.79 | 459.1 | 56.3 | 81.4 | 5.39 | 76.7 ± 0.1 |
| 1175 | 10 | 6.435 | 102.3 | 33.68 | 377.7 | 59.1 | 84.1 | 5.42 | 77.0 ± 0.1 |
| 1175 | 10 | 6.401 | 57.44 | 32.13 | 336.2 | 61.7 | 84.7 | 5.43 | 77.1 ± 0.2 |
| 1200 | 10 | 6.203 | 62.02 | 24.16 | 622.8 | 66.4 | 88.0 | 5.47 | 77.7 ± 0.1 |
| 1200 | 10 | 6.089 | 69.78 | 19.50 | 553.6 | 70.7 | 90.0 | 5.49 | 78.0 ± 0.2 |
| 1200 | 10 | 6.070 | 46.47 | 19.40 | 415.6 | 73.8 | 90.0 | 5.47 | 77.8 ± 0.1 |
| 1200 | 15 | 6.115 | 45.57 | 20.21 | 423.8 | 77.1 | 89.7 | 5.49 | 78.1 ± 0.4 |
| 1200 | 20 | 6.107 | 58.22 | 19.47 | 663.4 | 82.1 | 90.1 | 5.51 | 78.3 ± 0.2 |
| 1200 | 30 | 6.167 | 69.67 | 21.02 | 831.7 | 88.4 | 89.5 | 5.52 | 78.5 ± 0.2 |
| 1250 | 10 | 6.206 | 107.4 | 21.54 | 539.6 | 92.6 | 89.2 | 5.55 | 78.9 ± 0.1 |
| 1300 | 10 | 6.570 | 67.18 | 32.64 | 287.5 | 94.7 | 84.5 | 5.58 | 79.3 ± 0.4 |
| 1350 | 10 | 6.428 | 116.0 | 27.92 | 166.5 | 96.0 | 85.2 | 5.59 | 79.3 ± 0.1 |
| 1500 | 10 | 6.766 | 110.8 | 39.22 | 523.1 | 100 | 81.7 | 5.59 | 79.4 ± 0.1 |

[†]K-Ar age = 74.8 Ma

