

Supplemental data:**Table 1 Summary of $^{40}\text{Ar}/^{39}\text{Ar}$ results**

Field Name <i>longitude</i> <i>latitude</i>	Min.	Integrated Age (Ma)	Plateau Age (Ma)	Isochron Age (Ma)	Comments
Vurguveyem subterrane					
C-2573/3 <i>66°55'18 N</i> <i>166°58'28E</i>	WR	115.3 ± 2.0	112.6 ± 2.2	111.9 ± 2.3	Plateau: 4 fractions, 82% ^{39}Ar release, MSWD=1.3 Isochron: 6 fractions, $^{40}\text{Ar}/^{36}\text{Ar}_i = 292 \pm 14$, MSWD=1.2
Basalt: plagioclase, clinopyroxene, glass, metamorphic brown amphibole, leucoxen					
C-2572/9 <i>66°55'17 N</i> <i>166°58'28E</i>	AM	109.6 ± 1.4	none	91.8 ± 2.1	Isochron: 5 fractions, $^{40}\text{Ar}/^{36}\text{Ar}_i = 739 \pm 75$, MSWD=0.3
Diabase: plagioclase, clinopyroxene, titanomagnetite, metamorphic green amphibole					
GK-983-4 <i>66°54'56 N</i> <i>166°59'08E</i>	AM	312.8 ± 15.6	304.9 ± 13.6	320.3 ± 11.1	Plateau: 6 fractions, 92% ^{39}Ar release, MSWD=1.2 Isochron: 7 fractions, $^{40}\text{Ar}/^{36}\text{Ar}_i = 293 \pm 4$, MSWD=0.8
Gabbro-norite: plagioclase (60%), clinopyroxene (25%), orthopyroxene (10%), metamorphic green amphibole, leucoxen					
Aluchin subterrane					
C-2546 <i>66°59'55 N</i> <i>166°01'58E</i>	AM	194.4 ± 11.5	226.6 ± 10.5	246.9 ± 31.0	Plateau: 4 fractions, 85% ^{39}Ar release, MSWD=0.3 Isochron: 5 fractions, $^{40}\text{Ar}/^{36}\text{Ar}_i = 276 \pm 23$, MSWD=1.9
Dolerite: plagioclase (65%), clinopyroxene (with metamorphic actinolite), brown amphibole, titanomagnetite					
Kulpolney unit					
9973/1 <i>67°42'52.7 N</i> <i>164°31'46.6 E</i>	WR	153.4 ± 3.9	158.1 ± 4.0	151.7 ± 6.7	Plateau: 6 fractions, 87% ^{39}Ar release, MSWD=0.3 Isochron: 6 fractions, $^{40}\text{Ar}/^{36}\text{Ar}_i = 344 \pm 51$, MSWD= 0.1
Greenshist: albite, epidote, quartz, actinolite					
South Gremuchinsky unit					
98116/2 <i>66°45'21 N</i> <i>167°39'59.9 E</i>	WR	104.5 ± 3.5	106.0 ± 3.1	108.0 ± 13.4	Plateau: 5 fractions, 94% ^{39}Ar release, MSWD = 0.8 Isochron: 4 fractions, $^{40}\text{Ar}/^{36}\text{Ar}_i = 271 \pm 275$, MSWD=1.2
Greenshist: albite, epidote, quartz, chlorite					

Table 1 Continued

Field Name	Min.	Integrated Age (Ma)	Plateau Age (Ma)	Isochron Age (Ma)	Comments
98117 66°45'48.9 N 167°39'32.9 E	WR	104.8 ± 1.9	119.0 ± 3.9 (W)	none	Weighted mean: 3 fractions, 35% ³⁹ Ar release, MSWD = 0.4
Greenschist: albite, quartz, epidote, chlorite, muscovite					
98117/3 66°45'49.6 N 167°39'33.6 E	WR	104.9 ± 1.0	108.4 ± 1.2	none	Plateau: 4 fractions, 73% ³⁹ Ar release, MSWD=2.1
Greenschist: quartz, plagioclase, epidote, chlorite, mica, calcite					
98117/6 66°45'49.9 N 167°39'34.2 E	WR	118.5 ± 1.5	115.2 ± 1.4	112.8 ± 2.0	Plateau: 5 fractions, 95% ³⁹ Ar release, MSWD=1.2 Isochron: 6 fractions, ⁴⁰ Ar/ ³⁶ Ar _i = 397 ± 64, MSWD=0.6
Metasandstone: quartz, plagioclase, epidote, chlorite, mica					
Merzlyui unit					
00-8-A 67°36'50.6 N 163°46'16.8 E	AM	231.1 ± 3.9	239.1 ± 3.8	243.7 ± 4.6	Plateau: 6 fractions, 85% ³⁹ Ar release, MSWD=1.3 Isochron: 10 fractions, ⁴⁰ Ar/ ³⁶ Ar _i = 186 ± 54, MSWD=1.0
Amphibolite: amphibole, and minor, albite, chlorite, garnet					
M02-53/3 67°19'04.1 N 163°56'45.7 E	AM#1	238.7 ± 15.0	254.8 ± 11.2	257.8 ± 14.0	Plateau: 3 fractions, 68% ³⁹ Ar release, MSWD = 0.6 Isochron: 14 fractions, ⁴⁰ Ar/ ³⁶ Ar _i = 284 ± 5, MSWD=1.8
Hornblende schist: pale green amphibole (up 95%), quartz.					
	AM#2	264.4 ± 6.4	257.7 ± 8.0 (W)	248.8 ± 4.2	Weighted mean: 3 fractions, 94% ³⁹ Ar release, MSWD = 3.3 Isochron: 4 fractions, ⁴⁰ Ar/ ³⁶ Ar _i = 298 ± 1, MSWD=0.7
			256.7 ± 6.5		Weighted average age of two runs
M02-53/5 67°20'33.5 N 163°53'57.3 E	AM#1	230.1 ± 29.3	241.9 ± 24.2	179.3 ± 42.6	Plateau: 7 fractions, 93% ³⁹ Ar release, MSWD = 1.5 Isochron: 10 fractions, ⁴⁰ Ar/ ³⁶ Ar _i = 310 ± 18, MSWD=0.9
Hornblende schist: pale green amphibole (up 95%), quartz.					
	AM#2	267.2 ± 16.5	247.8 ± 15.5	240.6 ± 14.3	Plateau: 6 fractions, 92% ³⁹ Ar release, MSWD = 0.7 Isochron: 9 fractions, ⁴⁰ Ar/ ³⁶ Ar _i = 312 ± 6, MSWD=0.6
			246.1 ± 13.1		Weighted average plateau age of two runs

Table 1 Continued

Field Name	Min.	Integrated Age (Ma)	Plateau Age (Ma)	Isochron Age (Ma)	Comments
M02-56/1 67°19'50.4 N 163°52'25.5E	WR	124.2 ± 1.5	none	none	
Metamorphosed volcanoclastic rock: sodic amphibole, epidote, sphene, calcite and quartz.					
M02-56/8 67°19'50.6 N 163°52'26.2E	WM	236.1 ± 1.0	236.6 ± 1.0	238.2 ± 0.9	Plateau: 11 fractions, 99% ³⁹ Ar release, MSWD = 1.5 Isochron: 12 fractions, ⁴⁰ Ar/ ³⁶ Ar _i = 175 ± 25, MSWD=0.8
Gr-amphibolite: amphibole, almandine, white mica and minor, albite and chlorite					
M02-56/8 67°19'51.2 N 163°52'27.2	AM	225.3 ± 0.7	229.6 ± 1.4 (W)	227.5 ± 2.5	Weighted mean: 8 fractions, 94% ³⁹ Ar release, MSWD = 4.0 Errorchron: 8 fractions, ⁴⁰ Ar/ ³⁶ Ar _i = 358 ± 55, MSWD=3.5

Samples run against standard Mmhb-1 with an age of 513.9 Ma and processed using the constants of Steiger and Jager (1977) in the Geochronology Laboratory at the University of Alaska Fairbanks. All errors quoted to $\pm 1\sigma$. Min: Mineral, AM: amphibole, WM: white mica, WR: whole rock. Plateau: 3+ consecutive fractions, MSWD (Mean Square Weighted Deviation) $< \sim 2.5$, more than 50% ³⁹Ar release. Samples that do not meet this criteria, but have plateau-like fractions are designated as weighted mean age (W) and age is weighted fraction age with error that reflects scatter in ages (weighted by the square root of MSWD). With the exception of one sample (C-2572/9), isochron ages (when calculated) agree with plateau ages at the 2 σ level, so, for the basis of discussion, we prefer to use plateau ages for the samples. See Appendix 1 for analytical data and explanation of methods.

Appendix 1: $^{40}\text{Ar}/^{39}\text{Ar}$ data and analytical methods

Geochronologic methods

Samples were submitted to the Geochronology laboratory at UAF for $^{40}\text{Ar}/^{39}\text{Ar}$ analysis. In general, 100 – 250 micron-sized minerals or whole-rock chips were separated. The monitor mineral MMhb-1 (Samson and Alexander, 1987) with an age of 513.9 Ma (Lanphere and Dalrymple, 2000) was used to monitor neutron flux (and calculate the irradiation parameter, J). The samples and standards were wrapped in aluminum foil and loaded into aluminum cans of 2.5 cm diameter and 6 cm height. The samples were irradiated in position 5c of the uranium enriched research reactor of McMaster University in Hamilton, Ontario, Canada for 20 megawatt-hours.

Upon their return from the reactor, the samples and monitors were loaded into 2 mm diameter holes in a copper tray that was then loaded in a ultra-high vacuum extraction line. The monitors were fused, and samples heated, using a 6-watt argon-ion laser following the technique described in York et al. (1981), Layer et al. (1987) and Layer (2000). Argon purification was achieved using a liquid nitrogen cold trap and a SAES Zr-Al getter at 400C. The samples were analyzed in a VG-3600 mass spectrometer at the Geophysical Institute, University of Alaska Fairbanks. The argon isotopes measured were corrected for system blank and mass discrimination, as well as calcium, potassium and chlorine interference reactions following procedures outlined in McDougall and Harrison (1999). System blanks generally were 2×10^{-16} mol ^{40}Ar and 2×10^{-18} mol ^{36}Ar , which are 10 to 50 times smaller than fraction volumes. Mass discrimination was monitored by running both calibrated air shots and a zero-age glass sample. These measurements were made on a weekly to monthly basis to check for changes in mass discrimination.

Explanation of Data table columns:

All errors are +/- 1 sigma

On the table and in this text, the argon isotopes are denoted by preceding superscripts (e.g. ^{39}Ar). The source of the argon is denoted by a following subscript (e.g. $^{39}\text{Ar}_K$ means ^{39}Ar derived from potassium). Subscripts are: m = measured, Ca, Cl, and K. $^{40}\text{Ar}^*$ denotes radiogenic argon.

J: Irradiation parameter determined from standards.

Laser (mW): Samples are heated with a defocused beam using an argon ion laser to the designated power. The absolute value of the laser power is not critical, but it does denote the step.

Cum. ^{39}Ar : The cumulative amount of ^{39}Ar released in each step, normalized to 100%. This forms the X axis of age spectrum plots.

$^{40}\text{Ar}/^{39}\text{Ar}$ measured, $^{37}\text{Ar}/^{39}\text{Ar}$ measured, $^{36}\text{Ar}/^{39}\text{Ar}$ measured: These are the isotopic ratios used to determine the $^{40}\text{Ar}/^{39}\text{Ar}_K$ ratio for calculation of the age. The ratios have been corrected for system blanks, mass discrimination and decay of ^{37}Ar and ^{39}Ar . and these are constants determined from irradiating and measuring CaF and K salts.

% Atm ^{40}Ar : This is the percent of ^{40}Ar that is not radiogenic.

Ca/K: Elemental Ca/K ratio. This is determined from the corrected $^{37}\text{Ar}_{Ca}/^{39}\text{Ar}_K$ ratio times a calibration factor to allow for the production rate of argon from Ca and K in the reactor.

Cl/K: Elemental Cl/K ratio. This is determined from the corrected $^{38}\text{Ar}_{Cl}/^{39}\text{Ar}_K$ ratio times a calibration factor to allow for the production rate of argon from Cl and K in the reactor.

$^{40}\text{Ar}^*/^{39}\text{Ar}_K$: ratio of radiogenic ^{40}Ar (the * denotes radiogenic) to ^{39}Ar from potassium (the subscript denotes the source of the ^{39}Ar). Interference correction factors used: $(^{39}\text{Ar}/^{37}\text{Ar})_{Ca} = 6.51\text{e-}4$, $(^{36}\text{Ar}/^{37}\text{Ar})_{Ca} = 2.54\text{e-}4$ and $(^{40}\text{Ar}/^{39}\text{Ar})_K = 0.0287$.

The age is calculated from the $^{40}\text{Ar}^*/^{39}\text{Ar}_K$ and J values, and the error is reported at the 1-sigma level.

Integrated ages represent total-gas values. These are determined by adding together the gas released from each step and then calculating overall ratios and ages.

C-2573/3 Whole Rock																
Weighted average of J from standards = 0.002446 +/- 0.000011																
Laser (mW)	Cum. ³⁹ Ar	⁴⁰ Ar/ ³⁹ Ar measured	+/-	³⁷ Ar/ ³⁹ Ar measured	+/-	³⁶ Ar/ ³⁹ Ar measured	+/-	% Atm. ⁴⁰ Ar	Ca/K	+/-	Cl/K	+/-	⁴⁰ Ar*/ ³⁹ Ar _K	+/-	Age (Ma)	+/- (Ma)
150	0.0106	182.431	6.953	2.4331	0.1373	0.5429	0.0319	87.9	4.471	0.253	0.0201	0.0069	22.181	7.228	95.3	30.3
500	0.0681	42.912	1.858	1.2152	0.0629	0.0626	0.0062	42.9	2.232	0.116	0.0025	0.0017	24.512	2.103	105.1	8.8
1000	0.2145	39.029	1.476	2.6961	0.1032	0.0389	0.0034	28.9	4.956	0.190	0.0019	0.0007	27.770	1.608	118.6	6.6
1500	0.3820	35.360	1.145	8.0535	0.3030	0.0291	0.0026	22.6	14.855	0.562	0.0028	0.0007	27.487	1.216	117.4	5.0
2000	0.6972	28.932	0.595	5.8858	0.0813	0.0145	0.0018	13.3	10.841	0.150	0.0124	0.0008	25.146	0.802	107.7	3.3
2500	0.8911	28.676	0.084	6.7894	0.0230	0.0107	0.0021	9.2	12.513	0.043	0.0197	0.0004	26.124	0.620	111.8	2.6
3500	0.9580	36.034	0.240	9.7657	0.0726	0.0187	0.0045	13.3	18.033	0.135	0.0129	0.0017	31.414	1.361	133.6	5.6
8700	1.0000	51.961	0.681	16.4120	0.2173	0.0546	0.0083	28.7	30.439	0.407	0.0160	0.0016	37.442	2.521	158.1	10.2
Integrated		35.313	0.353	6.3598	0.0610	0.0301	0.0012	23.9	11.718	0.113	0.0104	0.0004	26.980	0.463	115.3	2.0
C-2572/9 Amphibole																
Weighted average of J from standards = 0.002446 +/- 0.000011																
Laser (mW)	Cum. ³⁹ Ar	⁴⁰ Ar/ ³⁹ Ar measured	+/-	³⁷ Ar/ ³⁹ Ar measured	+/-	³⁶ Ar/ ³⁹ Ar measured	+/-	% Atm. ⁴⁰ Ar	Ca/K	+/-	Cl/K	+/-	⁴⁰ Ar*/ ³⁹ Ar _K	+/-	Age (Ma)	+/- (Ma)
150	0.0032	173.524	26.075	8.6108	1.3688	0.3894	0.1238	66.0	15.889	2.540	0.0553	0.0344	59.393	33.636	244.8	129.6
500	0.0189	71.071	3.258	3.5826	0.1628	0.0967	0.0251	39.8	6.589	0.300	0.0129	0.0067	42.835	7.857	179.8	31.4
1000	0.0640	52.739	1.052	11.3706	0.1862	0.0665	0.0077	35.7	21.019	0.347	0.0311	0.0021	34.167	2.439	144.8	9.9
1500	0.1684	45.233	0.519	10.3658	0.1288	0.0353	0.0030	21.4	19.149	0.239	0.0868	0.0021	35.786	1.013	151.4	4.1
2000	0.2423	29.798	0.299	3.7209	0.0446	0.0144	0.0043	13.3	6.844	0.082	0.0241	0.0010	25.860	1.295	110.7	5.4
2500	0.3018	29.471	0.327	6.4966	0.0766	0.0094	0.0044	7.8	11.971	0.142	0.0206	0.0011	27.274	1.330	116.5	5.5
3500	0.4483	25.297	0.148	7.3222	0.0391	0.0071	0.0019	6.1	13.500	0.072	0.0136	0.0005	23.839	0.584	102.3	2.4
8700	1.0000	23.290	0.201	5.3919	0.0468	0.0041	0.0005	3.5	9.928	0.087	0.0058	0.0002	22.535	0.246	96.8	1.0
Integrated		29.291	0.158	6.3905	0.0340	0.0144	0.0009	12.9	11.775	0.063	0.0190	0.0003	25.598	0.304	109.6	1.4

GK-983-4 Amphibole Weighted average of J from standards = 0.002446 +/- 0.000011

Laser (mW)	Cum. ³⁹ Ar	⁴⁰ Ar/ ³⁹ Ar measured	+/-	³⁷ Ar/ ³⁹ Ar measured	+/-	³⁶ Ar/ ³⁹ Ar measured	+/-	% Atm. ⁴⁰ Ar	Ca/K	+/-	Cl/K	+/-	⁴⁰ Ar*/ ³⁹ Ar _K	+/-	Age (Ma)	+/- (Ma)
500	0.0438	1775.942	205.410	19.6833	2.2972	5.7718	0.6751	96.0	36.585	4.325	0.0716	0.0246	72.771	31.304	295.6	117.3
1000	0.1233	845.238	38.487	37.2526	1.7223	2.6861	0.1343	93.6	70.052	3.319	0.1352	0.0128	55.608	17.105	230.1	66.5
1500	0.5117	154.316	3.099	27.7700	0.5621	0.2877	0.0159	53.7	51.892	1.070	0.1062	0.0031	72.679	4.721	295.2	17.7
2000	0.8644	143.997	1.364	25.0076	0.2506	0.2198	0.0112	43.8	46.645	0.475	0.0973	0.0032	82.236	3.392	330.7	12.5
2500	0.9279	381.314	23.685	71.0350	4.4278	1.0747	0.0978	81.9	136.659	8.931	0.1548	0.0166	72.387	22.633	294.1	84.9
3500	0.9580	281.092	24.914	337.8576	29.9435	0.8028	0.1253	75.4	794.716	90.293	0.1984	0.0294	88.716	40.377	354.4	146.4
4500	0.9705	245.040	42.138	491.2569	84.4485	0.8191	0.3011	83.7	1325.197	334.913	0.1029	0.0648	58.590	116.611	241.7	450.1
8700	1.0000	274.045	16.444	887.6550	53.2623	0.9412	0.0806	77.2	3858.282	548.424	0.2017	0.0348	148.141	45.491	557.9	147.4
Integrated		354.673	4.503	105.0549	1.3404	0.9829	0.0178	79.7	206.912	2.834	0.1141	0.0030	77.381	4.188	312.8	15.6

C-2546 Amphibole Weighted average of J from standards = 0.002446 +/- 0.000011

Laser (mW)	Cum. ³⁹ Ar	⁴⁰ Ar/ ³⁹ Ar measured	+/-	³⁷ Ar/ ³⁹ Ar measured	+/-	³⁶ Ar/ ³⁹ Ar measured	+/-	% Atm. ⁴⁰ Ar	Ca/K	+/-	Cl/K	+/-	⁴⁰ Ar*/ ³⁹ Ar _K	+/-	Age (Ma)	+/- (Ma)
150	0.0061	911.278	586.405	32.8961	21.1933	3.5031	2.3010	113.3	61.681	40.607	0.3316	0.2332	-124.105	161.838	-652.7	1025.7
500	0.0304	1160.571	195.516	21.1157	3.5660	3.9897	0.6845	101.4	39.284	6.727	0.1003	0.0266	-17.050	39.969	-76.9	184.1
1000	0.0637	469.069	42.299	26.1879	2.3759	1.7265	0.1854	108.3	48.885	4.512	0.1093	0.0178	-39.843	30.812	-185.0	150.7
1500	0.1577	246.479	12.563	35.3928	1.8119	0.7399	0.0473	87.6	66.472	3.483	0.3199	0.0179	31.198	8.958	132.7	36.7
2000	0.3100	200.004	6.608	35.9106	1.1838	0.4895	0.0230	71.0	67.468	2.277	0.5094	0.0169	59.416	5.762	244.8	22.2
2500	0.5687	130.769	2.338	42.7321	0.7890	0.2727	0.0108	59.2	80.651	1.532	0.5898	0.0107	54.885	3.302	227.3	12.9
3500	0.8651	119.488	2.765	67.3908	1.4178	0.2510	0.0124	57.9	129.326	2.846	0.4574	0.0109	52.654	4.025	218.6	15.7
8700	1.0000	125.387	6.369	289.0014	13.8848	0.3506	0.0296	65.3	653.164	38.653	0.4211	0.0232	53.521	10.864	222.0	42.4
Integrated		186.725	2.585	85.8300	1.5985	0.5050	0.0109	76.5	166.807	3.291	0.4607	0.0069	46.508	2.915	194.4	11.6

98116/2 Whole Rock Weighted average of J from standards = 0.002446 +/- 0.000011

Laser (mW)	Cum. ³⁹ Ar	⁴⁰ Ar/ ³⁹ Ar measured	+/-	³⁷ Ar/ ³⁹ Ar measured	+/-	³⁶ Ar/ ³⁹ Ar measured	+/-	% Atm. ⁴⁰ Ar	Ca/K	+/-	Cl/K	+/-	⁴⁰ Ar*/ ³⁹ Ar _K	+/-	Age (Ma)	+/- (Ma)
150	0.0078	54.262	5.471	2.1770	0.3522	0.1365	0.1136	74.1	4.000	0.648	0.0272	0.0189	14.092	33.388	61.2	142.5
500	0.0564	26.479	0.586	3.4343	0.0905	0.0339	0.0191	36.9	6.316	0.167	0.0019	0.0028	16.718	5.654	72.3	24.0
1000	0.1786	29.852	0.990	7.9857	0.2908	0.0211	0.0070	18.9	14.729	0.539	0.0010	0.0013	24.303	2.269	104.2	9.5
1500	0.6455	28.156	0.198	5.4220	0.0525	0.0119	0.0021	11.1	9.984	0.097	0.0010	0.0005	25.103	0.640	107.5	2.7
2000	0.9253	26.439	1.104	16.1456	0.7063	0.0167	0.0032	14.1	29.940	1.324	0.0028	0.0005	22.927	1.395	98.5	5.8
2500	0.9609	29.628	0.927	29.0625	0.9224	0.0064	0.0285	-1.0	54.354	1.758	0.0141	0.0040	30.479	8.630	129.7	35.5
3500	0.9978	34.329	1.268	32.3465	1.1962	0.0251	0.0233	14.6	60.628	2.290	0.0097	0.0038	29.932	7.116	127.5	29.3
8700	1.0000	9.988	4.868	17.3342	8.2177	-0.2123	0.4300	-642.8	32.169	15.424	0.1107	0.0986	74.827	129.978	303.3	484.9
Integrated		28.246	0.363	10.5117	0.1735	0.0162	0.0026	14.2	19.420	0.323	0.0028	0.0005	24.383	0.841	104.5	3.5

98117 Whole Rock Weighted average of J from standards = 0.002446 +/- 0.000011

Laser (mW)	Cum. ³⁹ Ar	⁴⁰ Ar/ ³⁹ Ar measured	+/-	³⁷ Ar/ ³⁹ Ar measured	+/-	³⁶ Ar/ ³⁹ Ar measured	+/-	% Atm. ⁴⁰ Ar	Ca/K	+/-	Cl/K	+/-	⁴⁰ Ar*/ ³⁹ Ar _K	+/-	Age (Ma)	+/- (Ma)
150	0.0021	114.244	33.829	6.4388	1.9932	0.9208	0.3729	237.8	11.864	3.688	0.0768	0.0406	-158.060	88.942	-881.4	640.0
500	0.0121	38.847	2.514	10.9209	0.7202	0.1901	0.0449	142.6	20.182	1.341	0.0090	0.0079	-16.643	12.917	-75.0	59.4
1000	0.0599	43.868	1.612	11.7258	0.3643	0.1044	0.0069	68.3	21.681	0.679	0.0043	0.0017	13.990	2.185	60.7	9.3
1500	0.1637	39.182	0.437	9.4194	0.1240	0.0638	0.0041	46.3	17.390	0.230	0.0020	0.0012	21.151	1.236	91.0	5.2
2000	0.6495	27.219	0.087	3.7370	0.0137	0.0074	0.0010	7.0	6.874	0.025	0.0021	0.0003	25.350	0.318	108.6	1.3
2500	0.8894	29.841	0.153	10.9274	0.2570	0.0096	0.0023	6.7	20.194	0.478	0.0260	0.0005	28.010	0.697	119.6	2.9
3500	0.9754	30.250	1.130	15.7414	0.8156	0.0094	0.0076	5.3	29.182	1.528	0.0352	0.0022	28.922	2.511	123.3	10.4
8700	1.0000	24.586	0.915	4.3918	0.1928	0.0077	0.0239	8.0	8.082	0.356	0.0143	0.0033	22.665	7.122	97.4	29.8
Integrated		30.390	0.142	7.5710	0.0856	0.0224	0.0014	19.9	13.961	0.159	0.0113	0.0003	24.443	0.444	104.8	1.9

U98117/3 Whole Rock																
Weighted average of J from standards = 0.002446 +/- 0.000011																
Laser (mW)	Cum. ³⁹ Ar	⁴⁰ Ar/ ³⁹ Ar measured	+/-	³⁷ Ar/ ³⁹ Ar measured	+/-	³⁶ Ar/ ³⁹ Ar measured	+/-	% Atm. ⁴⁰ Ar	Ca/K	+/-	Cl/K	+/-	⁴⁰ Ar*/ ³⁹ Ar _K	+/-	Age (Ma)	+/- (Ma)
150	0.0098	19.348	0.221	0.4113	0.0416	0.0344	0.0130	52.5	0.755	0.076	0.0012	0.0029	9.184	3.853	40.1	16.6
500	0.0526	16.402	0.530	0.4731	0.0175	0.0051	0.0038	9.1	0.868	0.032	0.0005	0.0008	14.893	1.235	64.6	5.3
1000	0.2611	25.331	0.080	0.6736	0.0033	0.0023	0.0006	2.5	1.237	0.006	0.0003	0.0001	24.681	0.190	105.8	0.8
1500	0.5843	25.995	0.071	0.3106	0.0020	0.0010	0.0005	1.0	0.570	0.004	0.0003	0.0001	25.707	0.166	110.0	0.7
2000	0.7331	25.359	0.719	0.7082	0.0227	0.0022	0.0007	2.3	1.300	0.042	0.0007	0.0001	24.751	0.742	106.1	3.1
2500	0.8820	25.638	0.710	0.2690	0.0078	0.0012	0.0009	1.4	0.494	0.014	0.0004	0.0002	25.266	0.755	108.2	3.1
3500	0.9955	25.630	0.877	0.9067	0.0269	0.0023	0.0011	2.4	1.665	0.049	0.0018	0.0002	25.013	0.922	107.2	3.8
8700	1.0000	32.717	1.286	2.0875	0.1171	0.1029	0.0263	92.5	3.835	0.216	0.0185	0.0065	2.443	7.714	10.8	33.8
Integrated		25.222	0.184	0.5228	0.0044	0.0026	0.0004	2.9	0.960	0.008	0.0006	0.0001	24.477	0.213	104.9	1.0
98117/6 Whole Rock																
Weighted average of J from standards = 0.002446 +/- 0.000011																
Laser (mW)	Cum. ³⁹ Ar	⁴⁰ Ar/ ³⁹ Ar measured	+/-	³⁷ Ar/ ³⁹ Ar measured	+/-	³⁶ Ar/ ³⁹ Ar measured	+/-	% Atm. ⁴⁰ Ar	Ca/K	+/-	Cl/K	+/-	⁴⁰ Ar*/ ³⁹ Ar _K	+/-	Age (Ma)	+/- (Ma)
150	0.0166	73.137	2.527	-0.0259	0.1375	0.1225	0.0225	49.5	-0.048	0.252	-0.0005	0.0041	36.918	6.664	156.0	27.0
500	0.2068	31.322	0.190	0.0352	0.0084	0.0119	0.0025	11.2	0.065	0.015	0.0005	0.0005	27.785	0.747	118.6	3.1
1000	0.6715	27.401	0.146	0.0255	0.0034	0.0028	0.0011	3.0	0.047	0.006	0.0002	0.0002	26.544	0.349	113.5	1.5
1500	0.8919	28.793	0.092	0.1122	0.0074	0.0057	0.0017	5.9	0.206	0.014	0.0002	0.0003	27.079	0.502	115.7	2.1
2000	0.9359	29.389	0.210	0.3368	0.0193	-0.0032	0.0095	-3.3	0.618	0.035	0.0038	0.0017	30.349	2.824	129.2	11.6
2500	0.9670	31.207	0.541	0.3608	0.0372	0.0218	0.0108	20.5	0.662	0.068	0.0002	0.0021	24.782	3.224	106.2	13.4
3500	0.9928	34.443	0.681	0.3964	0.0484	-0.0051	0.0138	-4.5	0.727	0.089	0.0035	0.0034	35.974	4.140	152.2	16.8
8700	1.0000	108.926	4.637	1.7898	0.1540	0.1223	0.0544	33.1	3.288	0.283	0.0007	0.0119	72.985	16.314	296.4	61.1
Integrated		30.186	0.089	0.0920	0.0042	0.0081	0.0011	8.0	0.169	0.008	0.0005	0.0002	27.760	0.348	118.5	1.5

9973/1 Whole Rock

Weighted average of J from standards = 0.002446 +/- 0.000011

Laser (mW)	Cum. ³⁹ Ar	⁴⁰ Ar/ ³⁹ Ar measured	+/-	³⁷ Ar/ ³⁹ Ar measured	+/-	³⁶ Ar/ ³⁹ Ar measured	+/-	% Atm. ⁴⁰ Ar	Ca/K	+/-	Cl/K	+/-	⁴⁰ Ar*/ ³⁹ Ar _K	+/-	Age (Ma)	+/- (Ma)
150	0.0223	68.467	3.155	0.2810	0.1242	0.1454	0.0376	62.7	0.516	0.228	0.0098	0.0084	25.505	10.990	109.2	45.7
500	0.1292	39.875	0.555	0.3558	0.0280	0.0377	0.0102	27.9	0.653	0.051	0.0042	0.0017	28.730	3.055	122.5	12.6
1000	0.4724	42.391	1.198	0.4972	0.0170	0.0201	0.0025	13.9	0.913	0.031	0.0025	0.0004	36.486	1.337	154.2	5.4
1500	0.8266	42.967	1.275	0.8196	0.0300	0.0202	0.0027	13.8	1.505	0.055	0.0014	0.0005	37.039	1.452	156.5	5.9
2000	0.9124	54.344	1.742	1.8704	0.0724	0.0513	0.0088	27.6	3.436	0.133	0.0062	0.0024	39.346	2.939	165.8	11.8
2500	0.9453	70.933	2.223	2.4959	0.1106	0.1045	0.0224	43.3	4.587	0.204	0.0111	0.0065	40.285	6.673	169.6	26.8
3500	0.9774	70.387	1.944	2.3605	0.1171	0.0991	0.0261	41.4	4.338	0.215	0.0111	0.0068	41.323	7.777	173.7	31.2
8700	1.0000	97.991	3.454	2.7050	0.1845	0.1926	0.0405	57.9	4.972	0.340	0.0215	0.0096	41.339	11.913	173.8	47.8
Integrated		47.029	0.661	0.8850	0.0158	0.0367	0.0025	22.9	1.625	0.029	0.0038	0.0006	36.243	0.940	153.3	3.9

00-8-A Amphibole

Weighted average of J from standards = 0.002446 +/- 0.000011

Laser (mW)	Cum. ³⁹ Ar	⁴⁰ Ar/ ³⁹ Ar measured	+/-	³⁷ Ar/ ³⁹ Ar measured	+/-	³⁶ Ar/ ³⁹ Ar measured	+/-	% Atm. ⁴⁰ Ar	Ca/K	+/-	Cl/K	+/-	⁴⁰ Ar*/ ³⁹ Ar _K	+/-	Age (Ma)	+/- (Ma)
150	0.0036	450.467	139.085	6.7332	2.1437	1.3896	0.4964	91.0	12.409	3.968	0.0952	0.0406	40.500	75.161	170.4	301.8
300	0.0150	99.131	9.795	3.6285	0.4078	0.2092	0.0679	62.1	6.673	0.752	0.0337	0.0159	37.652	19.527	159.0	78.9
500	0.0340	86.458	4.627	3.1199	0.1941	0.1632	0.0416	55.5	5.736	0.358	0.0176	0.0053	38.516	12.211	162.5	49.3
750	0.0708	65.232	2.175	15.3685	0.5137	0.0527	0.0196	22.1	28.484	0.962	0.0155	0.0037	51.288	6.073	213.2	23.8
1000	0.1465	63.839	1.246	15.6389	0.3143	0.0255	0.0081	10.0	28.990	0.589	0.0158	0.0028	58.033	2.675	239.5	10.3
1250	0.2734	62.066	1.133	12.1758	0.1816	0.0230	0.0053	9.5	22.519	0.339	0.0116	0.0016	56.620	1.905	234.0	7.4
1500	0.3342	61.269	0.774	15.5787	0.2039	0.0324	0.0089	13.7	28.878	0.382	0.0141	0.0026	53.381	2.728	221.4	10.7
1750	0.4275	60.908	0.850	12.3807	0.1977	0.0258	0.0078	11.0	22.902	0.369	0.0152	0.0028	54.629	2.441	226.3	9.5
2000	0.5606	66.324	2.139	16.1469	0.5422	0.0274	0.0044	10.4	29.942	1.016	0.0134	0.0012	60.039	2.384	247.2	9.2
2500	0.9195	62.606	1.727	20.3206	0.6217	0.0191	0.0014	6.6	37.785	1.171	0.0136	0.0009	59.242	1.743	244.2	6.7
3000	0.9509	61.590	2.863	21.2140	0.9921	0.0293	0.0152	11.5	39.470	1.872	0.0241	0.0046	55.274	5.222	228.8	20.3
4000	0.9631	51.808	6.249	19.3115	2.3329	0.1357	0.0476	74.6	35.885	4.390	0.0316	0.0174	13.312	13.471	57.8	57.6
8700	1.0000	54.674	2.271	14.1011	0.5889	0.0435	0.0102	21.6	26.113	1.101	0.0174	0.0043	43.257	3.508	181.5	14.0
Integrated		64.786	0.755	16.3968	0.2291	0.0363	0.0023	14.7	30.411	0.430	0.0150	0.0007	55.863	0.977	231.1	3.9

M02-53/3 Amphibole #1																
Weighted average of J from standards = 0.002517 +/- 0.000006																
Laser (mW)	Cum. ³⁹ Ar	⁴⁰ Ar/ ³⁹ Ar measured	+/-	³⁷ Ar/ ³⁹ Ar measured	+/-	³⁶ Ar/ ³⁹ Ar measured	+/-	% Atm. ⁴⁰ Ar	Ca/K	+/-	Cl/K	+/-	⁴⁰ Ar*/ ³⁹ Ar _K	+/-	Age (Ma)	+/- (Ma)
250	0.0051	7139.342	8563.847	71.5742	85.8611	24.1170	28.9358	99.7	137.747	173.318	0.3580	0.4467	19.012	197.628	84.3	856.5
500	0.0095	8688.733	9905.814	216.5379	246.8716	31.8369	36.2995	108.1	462.516	613.838	0.0787	0.1641	-818.162	1098.62	-57232.7	4708.8
700	0.0132	1901.038	2421.438	339.4125	432.3277	6.0453	7.7239	92.6	799.411	1307.06	-0.0335	0.1303	179.838	372.967	673.7	1166.0
1100	0.0330	2287.413	521.547	135.1795	30.8241	7.3759	1.6942	94.8	271.969	67.999	0.2874	0.0717	129.325	74.417	508.4	255.0
1300	0.1286	187.825	10.044	90.8400	4.8600	0.4495	0.0383	67.1	177.155	10.074	0.2297	0.0138	65.660	10.077	276.0	39.3
1500	0.5152	106.473	1.757	94.7003	1.5618	0.2010	0.0101	49.1	185.178	3.255	0.2314	0.0046	57.711	3.183	244.7	12.6
1750	0.7181	106.875	2.262	96.9547	2.0519	0.1878	0.0178	45.1	189.883	4.289	0.2373	0.0070	62.584	5.656	263.9	22.2
2000	0.7475	102.842	17.512	101.0736	17.1960	0.0826	0.1082	16.4	198.518	36.153	0.2274	0.0456	92.051	37.867	376.0	139.6
2500	0.7774	121.469	18.018	103.9963	15.4214	0.1598	0.1122	32.5	204.676	32.555	0.2526	0.0418	87.983	37.473	360.9	139.3
3000	0.8116	143.279	19.725	93.3329	12.8494	0.4172	0.0879	81.2	182.331	26.726	0.2361	0.0407	28.718	21.384	125.9	90.6
4000	0.8725	186.461	14.972	88.4718	7.1007	0.4794	0.0670	72.4	172.255	14.670	0.2290	0.0207	54.560	17.816	232.2	71.1
5000	0.9679	204.127	9.461	96.0568	4.4533	0.5688	0.0373	78.8	188.008	9.298	0.2361	0.0130	46.126	8.646	198.2	35.2
8000	1.0000	140.958	23.935	81.6153	13.8547	0.4218	0.0993	84.1	158.156	28.354	0.2176	0.0419	23.685	21.922	104.5	94.0
Integrated		262.816	5.119	97.8546	1.9071	0.7361	0.0183	80.0	191.766	3.992	0.2336	0.0053	56.199	3.775	238.7	15.0

M02-53/3 Amphibole #2																
Weighted average of J from standards = 0.002517 +/- 0.000006																
Laser (mW)	Cum. ³⁹ Ar	⁴⁰ Ar/ ³⁹ Ar measured	+/-	³⁷ Ar/ ³⁹ Ar measured	+/-	³⁶ Ar/ ³⁹ Ar measured	+/-	% Atm. ⁴⁰ Ar	Ca/K	+/-	Cl/K	+/-	⁴⁰ Ar*/ ³⁹ Ar _K	+/-	Age (Ma)	+/- (Ma)
1000	0.0484	4294.950	210.337	364.0319	17.8263	14.3788	0.7055	98.3	875.406	56.182	0.1990	0.0125	96.102	26.301	390.9	96.2
1500	0.1613	337.350	5.441	119.7018	1.9326	0.9739	0.0188	82.7	238.198	4.171	0.2089	0.0051	63.465	3.664	267.4	14.4
2500	0.7320	101.967	0.691	100.5310	0.6717	0.1845	0.0031	46.1	197.378	1.411	0.2234	0.0018	58.814	1.027	249.1	4.1
8000	1.0000	421.259	3.873	134.2827	1.2260	1.2600	0.0136	86.0	269.992	2.701	0.2166	0.0026	64.620	2.840	271.9	11.1
Integrated		458.205	2.575	127.0976	0.7075	1.3882	0.0087	87.4	254.243	1.543	0.2187	0.0016	62.699	1.633	264.4	6.4

M02-53/5 Amphibole #1

Weighted average of J from standards = 0.002517 +/- 0.000006

Laser (mW)	Cum. ³⁹ Ar	⁴⁰ Ar/ ³⁹ Ar measured	+/-	³⁷ Ar/ ³⁹ Ar measured	+/-	³⁶ Ar/ ³⁹ Ar measured	+/-	% Atm. ⁴⁰ Ar	Ca/K	+/-	Cl/K	+/-	⁴⁰ Ar*/ ³⁹ Ar _K	+/-	Age (Ma)	+/- (Ma)
500	0.0215	2479.565	1125.479	25.7144	11.6890	7.9300	3.6310	94.4	47.986	22.184	0.6534	0.3109	140.496	157.656	546.3	528.9
900	0.0347	657.145	458.827	85.4369	59.6653	2.4543	1.7856	109.4	165.998	122.753	0.1323	0.1325	-65.333	164.552	-324.2	894.4
1200	0.0751	241.884	54.141	195.5552	43.7669	0.9287	0.2917	107.4	411.160	105.445	0.1693	0.0528	-20.492	69.544	-95.6	333.0
1500	0.3374	210.309	8.062	323.3092	12.3931	0.6361	0.0338	77.8	751.372	36.480	0.3951	0.0178	59.016	9.271	249.9	36.7
1800	0.7837	134.768	3.534	330.0362	8.6638	0.4238	0.0170	74.6	771.284	25.788	0.3815	0.0116	43.652	5.109	188.1	20.9
2100	0.8137	228.676	92.062	367.6187	147.9764	0.6900	0.3095	77.1	886.745	469.236	0.5653	0.2340	68.814	64.366	288.2	249.2
2500	0.8375	195.709	96.372	420.4139	206.9766	0.6711	0.3786	85.2	1062.082	719.912	0.5402	0.2779	39.858	79.980	172.5	330.1
3000	0.8777	128.527	38.960	309.8816	93.8995	0.3219	0.1619	55.9	712.280	270.377	0.4686	0.1500	70.955	54.922	296.5	211.6
4000	0.9180	134.418	40.901	337.2664	102.5782	0.1085	0.1478	5.0	792.934	309.015	0.4235	0.1357	163.572	83.913	622.1	269.9
8000	1.0000	112.034	18.253	317.5894	51.7041	0.2866	0.0659	54.3	734.615	150.768	0.4039	0.0690	64.494	21.846	271.4	85.4
Integrated		207.534	7.289	317.3258	11.1496	0.6377	0.0291	79.3	733.846	32.498	0.3954	0.0151	54.047	7.340	230.1	29.4

M02-53/5 Amphibole #2

Weighted average of J from standards = 0.002517 +/- 0.000006

Laser (mW)	Cum. ³⁹ Ar	⁴⁰ Ar/ ³⁹ Ar measured	+/-	³⁷ Ar/ ³⁹ Ar measured	+/-	³⁶ Ar/ ³⁹ Ar measured	+/-	% Atm. ⁴⁰ Ar	Ca/K	+/-	Cl/K	+/-	⁴⁰ Ar*/ ³⁹ Ar _K	+/-	Age (Ma)	+/- (Ma)
500	0.0149	3596.596	1195.906	41.6258	13.8490	11.2420	3.7460	92.3	78.505	26.846	1.1736	0.3954	285.405	122.901	976.8	324.8
900	0.0189	3821.542	3901.611	196.7426	200.8747	13.1237	13.4359	101.1	414.023	484.813	1.4423	1.4922	-47.919	343.497	-231.9	1774.0
1250	0.0778	619.115	51.100	208.3270	17.1954	1.8789	0.1642	87.2	442.226	42.229	0.5369	0.0489	91.973	20.539	375.7	75.7
1500	0.4556	173.545	2.910	196.4958	3.2927	0.4644	0.0153	70.6	413.428	7.944	0.4838	0.0084	58.541	4.629	248.0	18.3
1750	0.8178	117.765	2.306	222.0187	4.3390	0.2682	0.0109	53.2	476.201	10.879	0.5419	0.0117	64.463	3.616	271.3	14.1
2000	0.8483	93.365	14.873	159.6551	25.3923	0.2305	0.1160	60.1	326.924	58.027	0.4761	0.0846	41.519	37.042	179.3	152.3
3000	0.8932	102.015	10.634	182.5893	18.9947	0.2550	0.1133	60.5	380.221	44.890	0.4663	0.0563	45.777	37.327	196.8	152.0
4000	0.9127	96.192	22.982	180.8064	43.0676	0.3151	0.2055	82.7	376.013	101.514	0.4626	0.1236	18.855	64.321	83.7	278.9
8000	1.0000	110.550	6.356	186.0373	10.6831	0.2585	0.0547	56.5	388.391	25.376	0.4822	0.0302	54.736	18.046	232.9	72.0
Integrated		226.850	3.511	201.6157	3.1217	0.6324	0.0154	75.7	425.828	7.589	0.5205	0.0088	63.424	4.210	267.2	16.5

M02-56/1 Whole Rock

Weighted average of J from standards = 0.002517 +/- 0.000006

Laser (mW)	Cum. ³⁹ Ar	⁴⁰ Ar/ ³⁹ Ar measured	+/-	³⁷ Ar/ ³⁹ Ar measured	+/-	³⁶ Ar/ ³⁹ Ar measured	+/-	% Atm. ⁴⁰ Ar	Ca/K	+/-	Cl/K	+/-	⁴⁰ Ar*/ ³⁹ Ar _K	+/-	Age (Ma)	+/- (Ma)
500	0.2612	68.178	1.422	2.1627	0.0289	0.1248	0.0022	53.9	3.974	0.053	0.0010	0.0001	31.485	1.348	137.6	5.7
900	0.5569	44.103	0.158	5.3292	0.0201	0.0440	0.0004	28.6	9.812	0.037	0.0005	0.0001	31.586	0.186	138.0	0.8
1250	0.7411	36.769	0.138	3.7966	0.0156	0.0278	0.0004	21.6	6.983	0.029	0.0011	0.0001	28.884	0.170	126.6	0.7
1500	0.8576	24.921	0.074	1.6695	0.0075	0.0118	0.0004	13.5	3.067	0.014	0.0014	0.0001	21.552	0.148	95.3	0.6
1750	0.8880	22.782	0.110	2.7715	0.0135	0.0147	0.0022	18.2	5.094	0.025	0.0018	0.0003	18.657	0.670	82.8	2.9
2000	0.9057	23.833	0.187	3.0335	0.0251	0.0085	0.0030	9.5	5.577	0.046	0.0024	0.0005	21.577	0.903	95.4	3.9
3000	0.9685	25.119	0.114	8.6447	0.0387	0.0148	0.0009	14.8	15.952	0.072	0.0027	0.0002	21.491	0.291	95.1	1.3
4000	0.9804	30.032	0.288	14.8284	0.1457	0.0271	0.0046	23.0	27.473	0.273	0.0045	0.0009	23.343	1.400	103.0	6.0
8000	1.0000	38.484	0.258	18.0310	0.1178	0.0459	0.0042	31.7	33.477	0.221	0.0068	0.0006	26.566	1.256	116.8	5.4
Integrated		44.319	0.343	4.2510	0.0147	0.0548	0.0005	35.8	7.822	0.027	0.0012	0.0001	28.492	0.359	125.0	1.5

M02-56/8 White Mica

Weighted average of J from standards = 0.002517 +/- 0.000006

Laser (mW)	Cum. ³⁹ Ar	⁴⁰ Ar/ ³⁹ Ar measured	+/-	³⁷ Ar/ ³⁹ Ar measured	+/-	³⁶ Ar/ ³⁹ Ar measured	+/-	% Atm. ⁴⁰ Ar	Ca/K	+/-	Cl/K	+/-	⁴⁰ Ar*/ ³⁹ Ar _K	+/-	Age (Ma)	+/- (Ma)
200	0.0013	37.212	2.672	0.1176	0.0509	0.0988	0.0516	78.5	0.216	0.093	0.0036	0.0078	7.995	15.114	36.0	67.3
400	0.0108	64.318	0.641	0.0262	0.0055	0.0439	0.0043	20.2	0.048	0.010	0.0018	0.0013	51.318	1.364	219.2	5.5
600	0.1866	57.197	0.225	0.0041	0.0004	0.0045	0.0002	2.3	0.008	0.001	0.0006	0.0001	55.834	0.233	237.3	0.9
800	0.6178	56.295	0.801	0.0017	0.0002	0.0015	0.0001	0.8	0.003	0.000	0.0005	0.0000	55.837	0.800	237.3	3.2
1000	0.8358	56.281	0.213	0.0025	0.0005	0.0016	0.0002	0.8	0.005	0.001	0.0004	0.0001	55.785	0.223	237.1	0.9
1250	0.9031	56.941	0.333	0.0060	0.0012	0.0073	0.0010	3.8	0.011	0.002	0.0003	0.0002	54.754	0.445	233.0	1.8
1500	0.9243	57.359	0.319	0.0186	0.0032	0.0127	0.0027	6.5	0.034	0.006	0.0001	0.0006	53.583	0.842	228.3	3.4
1750	0.9375	58.567	0.612	0.0230	0.0062	0.0150	0.0050	7.6	0.042	0.011	0.0002	0.0011	54.109	1.593	230.4	6.4
2000	0.9468	58.553	0.875	0.0129	0.0098	0.0161	0.0064	8.1	0.024	0.018	0.0005	0.0012	53.778	2.054	229.1	8.2
2500	0.9560	57.073	0.703	0.0095	0.0086	0.0098	0.0062	5.1	0.017	0.016	0.0020	0.0012	54.149	1.961	230.5	7.8
3000	0.9642	57.929	0.841	-0.0031	0.0115	-0.0009	0.0076	-0.5	-0.006	0.021	0.0012	0.0014	58.161	2.408	246.5	9.5
4000	0.9702	59.346	1.055	0.0089	0.0117	0.0114	0.0075	5.7	0.016	0.021	0.0025	0.0016	55.959	2.434	237.8	9.7
8000	1.0000	57.471	0.351	0.0010	0.0025	0.0062	0.0022	3.2	0.002	0.005	0.0004	0.0003	55.598	0.722	236.3	2.9
Integrated		56.693	0.352	0.0038	0.0003	0.0038	0.0002	2.0	0.007	0.001	0.0005	0.0001	55.554	0.356	236.2	1.5

M02-56/8 Amphibole

Weighted average of J from standards = 0.002517 +/- 0.000006

Laser (mW)	Cum. ³⁹ Ar	⁴⁰ Ar/ ³⁹ Ar measured	+/-	³⁷ Ar/ ³⁹ Ar measured	+/-	³⁶ Ar/ ³⁹ Ar measured	+/-	% Atm. ⁴⁰ Ar	Ca/K	+/-	Cl/K	+/-	⁴⁰ Ar*/ ³⁹ Ar _K	+/-	Age (Ma)	+/- (Ma)
500	0.0603	60.926	0.363	0.9675	0.0081	0.0835	0.0021	40.4	1.776	0.015	0.0040	0.0005	36.332	0.668	157.9	2.8
900	0.3626	56.778	0.230	0.3569	0.0017	0.0094	0.0004	4.9	0.655	0.003	0.0014	0.0001	54.006	0.251	230.0	1.0
1250	0.6512	55.195	0.214	1.1492	0.0049	0.0050	0.0003	2.5	2.110	0.009	0.0101	0.0001	53.828	0.231	229.3	0.9
1500	0.7238	57.064	0.300	6.7884	0.0379	0.0193	0.0016	9.1	12.511	0.070	0.0859	0.0007	52.078	0.563	222.2	2.3
1750	0.8474	59.471	0.247	9.7697	0.0405	0.0188	0.0007	8.1	18.041	0.075	0.1492	0.0008	54.975	0.305	233.8	1.2
2000	0.8991	58.565	0.372	9.9148	0.0653	0.0189	0.0016	8.3	18.310	0.121	0.1523	0.0015	54.040	0.583	230.1	2.3
3000	0.9436	57.916	0.442	8.8665	0.0703	0.0222	0.0030	10.2	16.363	0.130	0.1074	0.0013	52.283	0.976	223.1	3.9
4000	0.9547	58.464	1.080	11.1430	0.2050	0.0168	0.0065	7.1	20.595	0.382	0.1320	0.0038	54.695	2.196	232.7	8.8
8000	1.0000	61.985	0.456	13.5236	0.1037	0.0287	0.0022	12.1	25.034	0.194	0.1564	0.0015	54.966	0.782	233.8	3.1
Integrated		57.327	0.109	3.8547	0.0074	0.0165	0.0003	8.0	7.091	0.014	0.0495	0.0002	52.845	0.139	225.3	0.7