

Table A. Analytical data for $^{40}\text{Ar}/^{39}\text{Ar}$ incremental heating experiments

T(°C)	^{40}Ar	^{39}Ar	^{38}Ar	^{37}Ar	^{36}Ar	$^{40}\text{Ar}^*/^{39}\text{Ar}_K$	$^{39}\text{Ar}_K$ (% of total)	% $^{40}\text{Ar}^*$	Apparent K/Ca (mol/mol)	Apparent Age (Ma)
Ban 34; J = 0.01402 ; wt = 22.57 mg										
850	7.66 ± .01	0.051 ± .003	0.022 ± .003	0.232 ± .004	0.0133 ± .0007	73.37 ± 11.94	0.59	50.0	0.11	1276 ± 149
950	17.06 ± .01	0.344 ± .005	0.282 ± .002	1.380 ± .005	0.0007 ± .0003	49.45 ± 0.80	3.93	99.5	0.12	950 ± 12
1000	105.82 ± .17	2.155 ± .002	1.967 ± .002	10.058 ± .013	0.0067 ± .0006	48.69 ± 0.13	24.59	98.9	0.10	939 ± 2
1025	89.06 ± .16	1.788 ± .004	1.608 ± .002	8.457 ± .007	0.0042 ± .0009	49.65 ± .21	20.40	99.4	0.10	953 ± 3
1050	89.46 ± .22	1.775 ± .004	1.598 ± .001	8.364 ± .035	0.0030 ± .0007	50.41 ± .21	20.26	99.7	0.10	964 ± 3
1075	56.17 ± .04	1.107 ± .002	1.007 ± .002	5.168 ± .006	0.0034 ± .0012	50.36 ± .34	12.63	98.9	0.10	964 ± 5
1100	35.04 ± .05	0.688 ± .003	0.620 ± .002	3.303 ± .005	0.0038 ± .0009	49.85 ± .45	7.85	97.6	0.10	956 ± 7
1150	15.34 ± .02	0.300 ± .001	0.268 ± .001	1.483 ± .009	0.0022 ± .0004	49.58 ± .39	3.42	96.5	0.10	952 ± 6
1200	21.72 ± .03	0.424 ± .001	0.383 ± .001	2.002 ± .004	0.0022 ± .0005	50.27 ± .39	4.84	97.8	0.10	962 ± 6
1250	5.72 ± .01	0.109 ± .001	0.099 ± .001	0.511 ± .005	0.0008 ± .0006	50.70 ± 1.77	1.25	96.6	0.10	969 ± 26
1300	0.99 ± .01	0.018 ± .001	0.012 ± .002	0.069 ± .009	0.0011 ± .0007	37.21 ± 13.09	0.20	66.6	0.12	757 ± 217
Fuse	0.28 ± .01	0.004 ± .001	0.003 ± .001	0.018 ± .003	0.0002 ± .0004	50.53 ± 29.27	0.05	75.8	0.12	966 ± 433
Total fusion age = 956 Ma Weighted mean plateau age (1025° - 1200°C) = 959 ± 3 Ma										
Ban 36, J = 0.01402 ; wt = 55.69 mg										
850	7.36 ± .04	0.122 ± .002	0.010 ± .001	0.343 ± .005	0.0041 ± .0007	50.55 ± 2.01	0.42	83.9	0.17	967 ± 30
950	29.64 ± .02	0.537 ± .001	0.106 ± .001	1.706 ± .010	0.0101 ± .0007	50.01 ± 0.43	1.85	90.4	0.15	958 ± 6
1000	228.38 ± .30	4.480 ± .004	1.131 ± .002	15.663 ± .056	0.0060 ± .0012	50.97 ± .12	15.41	99.7	0.14	973 ± 2
1025	247.38 ± .37	4.827 ± .007	1.214 ± .001	16.978 ± .027	0.0047 ± .0007	51.35 ± .12	16.61	99.9	0.14	978 ± 2
1050	340.66 ± .41	6.557 ± .003	1.656 ± .003	22.902 ± .030	0.0080 ± .0006	51.98 ± .08	22.56	99.8	0.14	988 ± 2
1075	270.45 ± .48	5.139 ± .012	1.288 ± .002	17.779 ± .051	0.0070 ± .0017	52.61 ± .18	17.68	99.7	0.14	997 ± 3
1100	64.44 ± .02	1.244 ± .001	0.307 ± .002	4.481 ± .010	0.0035 ± .0014	51.39 ± .35	4.28	98.9	0.14	979 ± 5
1150	172.06 ± .24	3.306 ± .005	0.836 ± .001	12.432 ± .008	0.0027 ± .0008	52.22 ± .13	11.37	99.9	0.13	991 ± 2
1200	120.55 ± .20	2.313 ± .006	0.576 ± .001	8.697 ± .009	0.0019 ± .0006	52.29 ± .18	7.96	99.9	0.13	992 ± 3
1250	19.64 ± .01	0.376 ± .001	0.093 ± .001	2.515 ± .036	0.0035 ± .0014	50.26 ± 1.08	1.29	95.7	0.07	962 ± 16
1300	6.99 ± .01	0.134 ± .001	0.032 ± .001	1.420 ± .014	0.0026 ± .0014	47.41 ± 3.19	0.46	90.6	0.05	919 ± 48

Table A (cont.) Analytical data for $^{40}\text{Ar}/^{39}\text{Ar}$ incremental heating experiments

T(°C)	^{40}Ar	^{39}Ar	^{38}Ar	^{37}Ar	^{36}Ar	$^{40}\text{Ar}*/^{39}\text{Ar}_K$	$^{39}\text{Ar}_K$ (% of total)	% $^{40}\text{Ar}^*$	Apparent K/Ca (mol/mol)	Apparent Age (Ma)
Fuse	2.30 ± .01	0.032 ± .001	0.007 ± .001	0.268 ± .019	0.0015 ± .0006	58.67 ± 5.84	0.11	81.8	0.06	1083 ± 81
Total fusion age = 985 Ma Weighted mean preferred age (1000° - 1050°C) = 980 ± 3 Ma										
Ban 44, J = 0.01402 ; wt = 55.15 mg										
650	49.23 ± .05	0.072 ± .002	0.037 ± .002	0.149 ± .009	0.1475 ± .0010	78.69 ± 27.03	0.25	11.5	0.24	1341 ± 325
850	60.84 ± .08	1.104 ± .002	0.031 ± .001	0.501 ± .004	0.0374 ± .0006	45.12 ± 0.22	3.76	81.8	1.08	884 ± 3
950	54.92 ± .06	1.067 ± .003	0.029 ± .001	1.773 ± .026	0.0116 ± .0008	48.45 ± .27	3.63	94.0	0.29	935 ± 4
1000	103.83 ± .05	2.006 ± .004	0.074 ± .001	6.612 ± .009	0.0082 ± .0017	50.91 ± .28	6.81	98.14	0.15	972 ± 4
1025	173.54 ± .22	3.330 ± .003	0.119 ± .001	12.176 ± .022	0.0022 ± .0006	52.33 ± .11	11.31	99.9	0.13	993 ± 2
1050	292.51 ± .60	5.548 ± .017	0.191 ± .004	20.714 ± .036	0.0085 ± .0013	52.68 ± .21	18.84	99.7	0.13	998 ± 3
1075	379.78 ± 1.50	7.204 ± .018	0.242 ± .005	25.865 ± .051	0.0081 ± .0011	52.79 ± .25	24.47	99.9	0.14	999 ± 4
1100	103.15 ± .18	1.957 ± .004	0.064 ± .001	6.740 ± .021	0.0028 ± .0012	52.68 ± .23	6.65	99.7	0.14	998 ± 3
1150	295.45 ± .84	5.492 ± .009	0.189 ± .001	20.054 ± .032	0.0060 ± .0015	53.88 ± .20	18.65	99.9	0.13	1015 ± 3
1200	70.76 ± .04	1.333 ± .005	0.047 ± .001	4.906 ± .012	0.0021 ± .0009	53.03 ± .29	4.53	99.7	0.13	1003 ± 4
1250	14.30 ± .03	0.271 ± .001	0.010 ± .001	1.016 ± .004	0.0005 ± .0006	52.70 ± .66	0.92	99.5	0.13	998 ± 10
1300	2.06 ± .01	0.036 ± .001	0.002 ± .001	0.156 ± .004	0.0012 ± .0005	47.37 ± 4.89	0.12	83.2	0.11	919 ± 74
1350	0.60 ± .01	0.010 ± .001	0.001 ± .001	0.027 ± .002	0.0005 ± .0003	44.69 ± 11.62	0.03	75.8	0.19	878 ± 180
Fuse	0.70 ± .01	0.009 ± .001	0.002 ± .001	0.034 ± .005	0.0005 ± .0019	62.82 ± 63.76	0.03	78.0	0.13	1139 ± 857
Total fusion age = 994 Ma Weighted mean plateau age (1025° - 1100°C) = 996 ± 2 Ma										
Ban 39; J = 0.01402 ; wt = 66.93 mg										
850	15.36 ± .35	0.167 ± .005	0.022 ± .001	0.512 ± .043	0.0149 ± .0008	66.05 ± 4.05	0.52	71.6	0.16	1182 ± 53
950	15.77 ± .03	0.289 ± .001	0.048 ± .001	0.577 ± .016	0.0051 ± .0011	49.54 ± 1.19	0.89	90.8	0.25	952 ± 18
1000	59.12 ± .05	1.130 ± .001	0.332 ± .006	4.110 ± .006	0.0028 ± .0007	52.00 ± .19	3.49	99.1	0.13	988 ± 3
1025	120.69 ± .09	2.324 ± .002	0.715 ± .002	9.032 ± .012	0.0052 ± .0005	51.71 ± .09	7.18	99.3	0.13	984 ± 2
1050	196.27 ± .25	3.743 ± .006	1.171 ± .003	14.615 ± .059	0.0047 ± .0010	52.50 ± .13	11.56	99.9	0.13	995 ± 2
1075	513.12 ± 1.32	9.766 ± .030	3.113 ± .006	37.247 ± .092	0.0122 ± .0028	52.60 ± .23	30.17	99.9	0.13	997 ± 3

Table A (cont.) Analytical data for $^{40}\text{Ar}/^{39}\text{Ar}$ incremental heating experiments

T(°C)	^{40}Ar	^{39}Ar	^{38}Ar	^{37}Ar	^{36}Ar	$^{40}\text{Ar}*/^{39}\text{Ar}_K$	$^{39}\text{Ar}_K$ (% of total)	% $^{40}\text{Ar}^*$	Apparent K/Ca (mol/mol)	Apparent Age (Ma)
1100	351.69 ± 1.04	6.681 ± .028	2.211 ± .013	24.885 ± .110	0.0104 ± .0014	52.59 ± .28	20.64	99.7	0.13	996 ± 4
1150	121.08 ± .23	2.315 ± .004	0.769 ± .001	9.050 ± .046	0.0034 ± .0008	52.30 ± .16	7.15	99.7	0.13	992 ± 2
1200	177.39 ± .14	3.378 ± .002	1.064 ± .001	13.018 ± .010	0.0047 ± .0004	52.54 ± .07	10.43	99.8	0.13	996 ± 2
1250	97.25 ± .03	1.843 ± .001	0.588 ± .001	7.606 ± .012	0.0039 ± .0013	52.60 ± .22	5.69	99.4	0.12	997 ± 3
1350	26.32 ± .02	0.499 ± .002	0.153 ± .008	2.330 ± .003	0.0032 ± .0006	51.41 ± .44	1.54	97.1	0.10	979 ± 6
Fuse	12.77 ± .01	0.238 ± .001	0.074 ± .002	1.120 ± .010	0.0016 ± .0007	52.12 ± .88	0.74	96.9	0.10	990 ± 242
Total fusion age = 995 Ma										
Weighted mean plateau age (1050° - 1250°C) = 995 ± 2 Ma										
Ban 42, J = 0.01402 ; wt = 66.11 mg										
650	31.12 ± .06	0.017 ± .001	0.029 ± .001	0.100 ± .002	0.0951 ± .0007	180.87 ± 139	0.06	9.7	0.08	2278 ± 994
850	8.69 ± .03	0.104 ± .001	0.014 ± .001	0.682 ± .004	0.0075 ± .0002	63.03 ± .92	0.34	75.0	0.07	1142 ± 12
950	79.95 ± .14	1.594 ± .003	0.418 ± .001	5.778 ± .009	0.0020 ± .0003	50.17 ± .14	5.23	99.8	0.13	961 ± 2
1000	363.06 ± .58	7.254 ± .014	1.947 ± .005	25.264 ± .090	0.0019 ± .0006	50.36 ± .13	23.79	99.9	0.14	964 ± 2
1025	315.50 ± 1.09	6.255 ± .027	1.686 ± .010	21.624 ± .082	0.0057 ± .0010	50.55 ± .28	20.51	99.9	0.14	967 ± 4
1050	406.52 ± .36	7.911 ± .021	2.165 ± .002	27.266 ± .117	0.0075 ± .0004	51.49 ± .15	25.94	99.9	0.14	980 ± 2
1075	163.35 ± .28	3.149 ± .006	0.872 ± .010	11.001 ± .020	0.0053 ± .0008	51.77 ± .15	10.33	99.6	0.14	984 ± 2
1100	70.69 ± .03	1.381 ± .001	0.375 ± .001	6.351 ± .012	0.0027 ± .0012	51.11 ± .26	4.52	99.5	0.11	975 ± 4
1150	124.50 ± .15	2.417 ± .002	0.664 ± .002	13.564 ± .025	0.0055 ± .0013	51.46 ± .19	7.91	99.5	0.09	980 ± 3
1200	18.50 ± .01	0.340 ± .001	0.090 ± .001	3.765 ± .016	0.0010 ± .0006	54.87 ± .54	1.11	99.9	0.04	1029 ± 8
1250	2.94 ± .01	0.046 ± .002	0.011 ± .001	1.219 ± .007	0.0014 ± .0007	58.19 ± 5.31	0.15	88.8	0.02	1076 ± 74
1300	1.06 ± .01	0.018 ± .001	0.004 ± .001	0.437 ± .010	0.0003 ± .0002	55.59 ± 4.56	0.06	93.8	0.02	1040 ± 65
Fuse	1.21 ± .01	0.018 ± .001	0.005 ± .002	0.278 ± .008	0.0032 ± .0008	15.70 ± 14.0	0.06	23.2	0.03	359 ± 291
Total fusion age = 975 Ma										
Weighted mean preferred age (1050° - 1150°C) = 981 ± 3 Ma										

All isotopes are in moles $\times 10^{-13}$, and only include corrections for background, ^{37}Ar decay and mass discrimination.
Errors on individual ages are one standard deviation and do not include the uncertainty in J.

*Radiogenic argon