

Sample: XH-8

Step	T/°C	³⁹ Ar(%)	⁴⁰ Ar/ ³⁹ Ar	³⁹ Ar/ ³⁷ Ar	Age/Ma	error
1	500	4.2	17.59	11.55	305.6	2.4
2	650	6.5	11.04	31.81	249.9	1.4
3	750	12.9	10.05	25.37	277.7	1.3
4	900	23.3	9.8	32.33	277.9	1.3
5	1050	25.4	9.74	51.91	277.7	1.3
6	1200	18.9	9.73	41.3	276.7	1.3
7	1320	8.8	9.75	4.91	272.7	1.4

[Yang et al. \(1996\)](#)

Sample: KP-4

Step	T/°C	³⁹ Ar(%)	⁴⁰ Ar/ ³⁹ Ar	³⁹ Ar/ ³⁷ Ar	Age/Ma	error
1	500	2.09	16.29	12.46	155.5	3.4
2	650	5.96	13.18	18.5	240.6	1.9
3	750	20.45	10.43	27.92	282.3	1.4
4	900	17.87	9.88	32.47	276.1	1.3
5	1050	26.42	9.99	63.93	279.2	1.3
6	1200	16.18	9.86	35.72	276.5	1.3
7	1320	11.03	9.93	6.13	278.5	1.4

[Chen *et al.* \(1997\)](#)

Sample: Yg20-21 and Txn25-21

Temp(°C)	⁴⁰ Ar/ ³⁹ Ar	³⁶ Ar/ ³⁹ Ar	³⁷ Ar/ ³⁹ Ar	³⁸ Ar/ ³⁹ Ar	³⁹ Ar(k)	³⁹ Ar(%)	Age (Ma)	± 2σ (Ma)
500	37.6607	0.0657	0.6128	0.0104	3.45	0.06	346	16
600	18.6196	0.0133	1.162	0.0277	59.69	1.19	284.6	3.5
700	19.4889	0.0025	0.8019	0.0138	184.01	4.65	354.8	3.7
800	18.3428	0.0027	0.9937	0.0164	128.93	7.08	334.4	3.3
900	17.7489	0.0013	1.1263	0.0145	339.05	13.47	331.6	5.3
950	16.8931	0.0007	0.8518	0.0135	508.72	23.04	319.1	3.2
1000	16.4271	0.0006	0.8096	0.0128	669.96	35.66	311.4	3
1050	16.1896	0.0009	0.9556	0.0132	379.07	42.8	306.1	3.1
1100	15.8484	0.001	1.2463	0.0142	735.38	56.64	299.8	3.6
1150	15.8091	0.0012	1.6463	0.0161	429.11	64.72	298.7	4.7
1250	14.9724	0.0031	6.6931	0.0157	1382.69	90.76	281.3	3.7
1320	15.7009	0.0055	7.2199	0.0161	348.34	97.32	282.6	3.2
1400	18.6203	0.0156	7.1004	0.019	142.41	100	281.2	3.9

Step heating for Yg20-21; W=120.00 mg; J=0.011552; m: measured isotopic ratios; F=⁴⁰Ar/³⁹Ar, is the ratio of radiogenic ⁴⁰Ar and ³⁹Ar

Temp(°C)	⁴⁰ Ar/ ³⁹ Ar	³⁶ Ar/ ³⁹ Ar	³⁷ Ar/ ³⁹ Ar	³⁸ Ar/ ³⁹ Ar	³⁹ Ar(k)	³⁹ Ar(%)	Age (Ma)	± 2	□□
500	15.9835	0.015	0.3008	0.077	8.88	0.13	227.6	4.4	
600	19.1498	0.0192	1.3516	0.0236	55.2	0.93	264.2	6.5	
700	20.3905	0.0029	1.3133	0.015	215.89	4.07	370.9	5.7	
800	18.6857	0.0015	1.1296	0.0171	218.98	7.25	348.4	5.7	
900	17.384	0.0013	1.0355	0.013	560.95	15.41	326.8	3.8	
950	16.0467	0.0009	1.5455	0.013	1015.06	30.17	306	3.7	
1000	15.3797	0.0009	2.0684	0.0127	1081.6	45.9	294.6	3.2	
1050	15.2649	0.0007	1.5573	0.0132	1358.61	65.65	292.8	4.4	
1100	14.9042	0.0007	1.2368	0.0141	1171.74	82.69	286.3	3.1	
1150	14.7412	0.0013	1.7826	0.016	546.89	90.64	280.8	2.9	
1250	14.0176	0.0031	7.9845	0.0186	423.87	96.8	267.6	2.7	

1400 15.1904 0.0093 14.8159 0.021 219.99 100 265.6 3

Step heating for Txn25-21; W=120.00 mg; J=0.011618; m: measured isotopic ratios; $F = \frac{^{40}\text{Ar}}{^{39}\text{Ar}}$, is the ratio of radiogenic ^{40}Ar and ^{39}Ar

[Yang *et al.* \(2006\)](#)

Sample: Fang1-10

Temp(°C)	³⁹ Ar(%)	Atoms(%)	³⁶ Ar/ ³⁹ Ar	³⁷ Ar/ ³⁹ Ar	³⁸ Ar/ ³⁹ Ar	⁴⁰ Ar/ ³⁹ Ar	⁴⁰ Ar/ ³⁶ Ar	Age/Ma	error
700	0	78.065	0.62610	9.692	0.1353	23.6	377.00	770.6	21.8
800	0.001	60.001	0.22600	6.771	0.05664	11.04	488.60	674.8	9.5
900	0.002	44.203	0.07172	3.531	0.02492	47.33	659.90	432	6.3
950	0.004	34.672	0.03000	2.313	0.01826	25.05	835.10	279.4	5
1000	0.01	19.337	0.01694	2.278	0.01726	42.98	1475.0	338.4	2.6
1040	0.023	8.717	0.00789	4.87	0.01584	22.43	2844.0	343.9	1.8
1060	0.035	11.641	0.01020	4.671	0.01621	22.81	2235.0	338.9	1.7
1080	0.046	13.793	0.01202	3.776	0.01536	23.64	1967.0	242.2	1.7
1100	0.056	17.407	0.01562	2.951	0.01567	25.21	1614.0	348.7	1.9
1130	0.066	37.84	0.04378	2.495	0.02081	33.68	769.30	350.4	2.1
1160	0.574	7.135	0.00512	1.208	0.01282	19.91	3887.0	312.5	1.5
1180	0.788	7.191	0.00518	1.229	0.013	19.98	3855.0	313.4	1.5
1200	0.928	7.323	0.00529	1.24	0.01299	20.05	3789.0	313.9	1.7
1230	0.944	7.38	0.00740	4.264	0.01418	25.16	3402.0	386.5	1.9
1260	0.971	5.976	0.00660	4.488	0.01595	26.82	4067.0	414.9	3.2
1340	0.989	6.644	0.00674	4.946	0.01446	24.26	3597.0	376.8	2
1500	1	7.205	0.00666	4.561	0.01342	22.41	3368.0	348.8	1.9

Zhang *et al.* (2009)

Sample: DWG07-1, DWG07-4, LKC07-1, TWC07-1, XHZ07-7, Z1-6 and Z16-2

Temp(°C)	$^{40}\text{Ar}^*/^{39}\text{Ar}(\text{k})$	1 □	$^{40}\text{Ar}/^{39}\text{Ar}$	$^{37}\text{Ar}/^{39}\text{Ar}$	$^{36}\text{Ar}/^{39}\text{Ar}$	^{40}Ar (moles)	Age (Ma)	±	□	$^{40}\text{Ar}^*$ (%)	$^{39}\text{Ar}(\text{k})$
Sample: DWG07-1											
780	15.704	2.246	34.783	0.485	0.065	1.791E-14	166.72	45.56		45.13	0.31
850	17.412	1.792	58.221	1.276	0.139	1.600E-13	183.96	36.00		29.87	1.67
900	29.906	0.478	60.291	1.323	0.103	5.162E-13	305.30	8.98		49.55	5.19
950	29.728	0.120	33.060	1.345	0.012	7.226E-13	303.63	2.25		89.82	13.26
990	29.039	0.100	30.212	1.231	0.004	6.506E-13	297.14	1.89		96.02	13.06
1030	28.556	0.102	29.445	1.189	0.003	5.540E-13	292.57	1.93		96.88	11.41
1080	27.860	0.104	29.630	1.117	0.006	5.476E-13	285.98	1.97		93.94	11.21
1130	27.206	0.121	28.717	1.243	0.006	2.732E-13	279.76	2.30		94.64	5.77
1190	26.417	0.149	28.703	3.252	0.009	3.105E-13	272.23	2.86		91.78	6.55
1260	26.703	0.087	27.469	5.361	0.004	1.327E-12	274.96	1.66		96.77	29.21
1310	26.275	0.304	28.374	6.957	0.009	3.839E-14	270.87	5.83		92.06	0.82
1380	26.030	0.669	33.683	6.919	0.028	2.572E-14	268.53	12.82		76.83	0.46
1500	24.964	0.331	32.015	7.366	0.026	5.734E-14	258.28	6.39		77.49	1.08
Sample: DWG07-4											
780	-4.045	3.167	21.946	0.517	0.088	2.705E-14	-45.70	72.47		-18.42	1.98
850	-11.995	4.620	44.134	0.924	0.190	1.077E-13	-139.02	111.30		-27.16	3.92
900	-12.912	5.895	97.713	1.877	0.375	2.618E-13	-150.10	142.92		-13.19	4.30
950	18.204	1.431	43.836	2.414	0.088	2.491E-13	192.46	28.71		41.44	9.11
1000	25.734	0.269	39.304	2.938	0.047	3.423E-13	266.45	5.19		65.31	13.95
1050	26.870	0.135	29.923	2.433	0.011	2.881E-13	277.35	2.58		89.61	15.43
1090	26.564	0.145	29.803	1.861	0.012	2.183E-13	274.42	2.77		88.99	11.75
1140	26.291	0.114	28.997	1.531	0.010	1.784E-13	271.80	2.18		90.55	9.87
1190	25.611	0.138	29.045	2.863	0.013	1.206E-13	265.26	2.67		87.96	6.65
1260	26.327	0.122	27.537	13.022	0.009	2.974E-13	272.14	2.33		94.54	17.15
1320	25.375	0.210	27.537	33.140	0.019	4.441E-14	262.99	4.05		89.55	2.52
1450	24.735	0.199	30.336	40.614	0.033	6.602E-14	256.80	3.85		78.71	3.37
Sample: LKC07-1											

780	-16.936	3.159	21.109	0.882	0.129	6.177E-14	-200.47	79.08	-80.17	1.82
850	4.203	2.053	27.144	2.547	0.078	1.138E-13	46.49	44.83	15.45	2.61
900	19.949	0.947	66.279	2.923	0.158	4.072E-13	210.74	18.89	30.02	3.82
940	29.679	0.098	29.582	0.508	0.000	4.263E-13	305.26	1.85	100.29	8.98
980	27.213	0.090	28.614	0.958	0.005	4.494E-13	281.77	1.72	95.02	9.78
1120	27.450	0.090	28.745	0.900	0.005	1.124E-12	284.04	1.72	95.42	24.36
1120	27.417	0.093	28.732	0.966	0.005	4.443E-13	283.72	1.78	95.35	9.64
1160	27.290	0.096	28.346	1.271	0.004	3.832E-13	282.50	1.84	96.17	8.42
1200	27.145	0.165	28.268	3.789	0.005	2.275E-13	281.11	3.17	95.72	5.00
1260	27.344	0.093	28.327	9.367	0.007	7.437E-13	283.02	1.78	95.76	16.24
1310	28.643	0.151	28.387	1.593	0.000	1.900E-13	295.43	2.88	100.76	4.17
1380	27.454	0.154	29.004	8.032	0.008	1.759E-13	284.08	2.95	94.01	3.76
1500	26.375	0.249	31.619	6.811	0.020	7.160E-14	273.71	4.80	82.93	1.40
Sample: TWC07-1										
780	-11.981	3.713	22.569	0.247	0.117	7.364E-14	-139.86	90.12	-53.07	8.30
840	-33.333	6.151	41.010	0.637	0.252	1.011E-13	-419.56	174.27	-81.24	6.27
910	-27.014	5.970	159.677	1.581	0.632	4.614E-13	-332.19	161.16	-16.90	7.35
960	14.570	0.479	42.686	2.755	0.096	1.348E-13	156.68	9.87	34.05	8.02
1010	23.209	0.321	31.694	3.103	0.030	1.160E-13	243.55	6.30	73.03	9.29
1050	25.243	0.264	29.484	2.148	0.015	1.288E-13	263.41	5.13	85.46	11.10
1100	25.662	0.131	29.436	1.431	0.013	1.691E-13	267.47	2.54	87.07	14.61
1150	25.234	0.127	28.345	1.318	0.011	1.315E-13	263.32	2.46	88.92	11.80
1200	24.525	0.202	28.668	2.591	0.015	8.625E-14	256.42	3.94	85.36	7.64
1260	24.482	0.276	28.318	13.024	0.017	6.393E-14	256.00	5.39	85.49	5.68
1340	24.377	0.247	28.671	46.434	0.030	7.835E-14	254.98	4.82	81.66	6.68
1500	23.927	0.570	32.652	61.995	0.050	4.396E-14	250.59	11.14	69.41	3.25
Sample: XHZ07-7										
780	1.567	0.783	19.698	0.406	0.061	3.040E-14	17.63	17.52	7.95	1.14
850	3.867	1.736	47.291	4.850	0.148	1.630E-13	43.18	38.32	8.14	2.53
900	7.811	1.806	58.953	5.655	0.175	2.563E-13	86.18	38.93	13.19	3.19

950	15.210	0.918	29.032	3.239	0.048	1.426E-13	164.19	18.95	52.25	3.61
1000	21.538	0.905	28.898	1.351	0.025	2.935E-13	228.34	18.03	74.44	7.48
1050	25.805	0.287	32.686	1.775	0.024	4.529E-13	270.35	5.58	78.83	10.20
1100	28.325	0.133	32.668	1.615	0.015	8.815E-13	294.70	2.56	86.59	19.86
1140	27.084	0.092	30.095	0.865	0.010	7.299E-13	282.75	1.79	89.93	17.86
1180	26.363	0.110	32.167	1.621	0.020	6.717E-13	275.77	2.13	81.84	15.37
1220	30.538	0.282	50.766	7.958	0.071	6.771E-13	315.82	5.36	59.75	9.76
1270	29.936	0.370	58.279	7.663	0.099	4.734E-13	310.10	7.05	51.03	5.95
1340	27.108	0.528	60.658	6.603	0.116	1.231E-13	282.98	10.21	44.44	1.49
1450	27.783	0.493	61.623	6.963	0.117	1.334E-13	289.50	9.48	44.82	1.59
Sample: Z1-6										
780	6.134	0.989	26.476	0.789	0.069	2.993E-14	68.33	21.62	23.15	0.90
850	6.153	1.964	39.603	1.051	0.113	1.706E-13	68.54	42.93	15.52	3.42
900	6.883	2.629	62.983	1.096	0.190	4.207E-13	76.49	57.23	10.92	5.30
950	27.827	1.965	33.283	1.567	0.019	4.025E-13	291.16	37.99	83.50	9.60
1000	27.014	0.447	28.567	1.816	0.006	5.283E-13	283.28	8.69	94.42	14.67
1040	27.248	0.109	28.709	1.753	0.006	4.450E-13	285.56	2.12	94.77	12.30
1080	26.971	0.114	29.051	1.501	0.008	3.066E-13	282.87	2.21	92.72	8.38
1130	26.157	0.109	27.670	1.707	0.006	2.443E-13	274.94	2.12	94.39	7.01
1180	25.710	0.094	27.149	3.444	0.006	1.491E-13	270.59	1.85	94.42	4.35
1240	25.300	0.089	25.662	7.328	0.004	7.084E-13	266.58	1.75	97.98	21.80
1300	24.455	0.202	26.028	8.972	0.008	7.867E-14	258.28	3.97	93.24	2.38
1380	25.385	0.097	25.915	9.260	0.005	2.837E-13	267.40	1.90	97.18	8.63
1500	24.094	0.238	30.651	11.437	0.026	4.881E-14	254.71	4.69	77.84	1.25
Sample: Z16-2										
780	7.274	0.494	24.859	0.808	0.060	1.118E-14	80.54	10.69	29.24	0.31
850	-1.431	2.109	40.554	2.281	0.143	9.419E-14	-16.27	48.20	-3.52	1.58
900	3.418	3.653	45.335	4.243	0.143	1.861E-13	38.29	80.97	7.51	2.80
950	8.973	0.704	28.275	2.959	0.066	2.460E-13	98.84	15.10	31.66	5.93
1000	25.655	0.336	28.285	0.896	0.009	5.911E-13	269.37	6.55	90.63	14.27

1050	26.226	0.130	28.992	0.892	0.010	7.514E-13	274.92	2.52	90.39	17.70
1090	26.025	0.122	28.701	0.952	0.009	4.767E-13	272.98	2.38	90.60	11.34
1140	25.555	0.088	26.883	1.192	0.005	5.111E-13	268.39	1.71	94.96	12.98
1190	24.280	0.084	25.312	1.588	0.004	4.235E-13	255.90	1.65	95.79	11.42
1240	24.644	0.086	26.537	8.067	0.009	7.690E-13	259.48	1.69	92.23	19.67
1290	23.210	0.193	27.840	16.721	0.021	6.373E-14	245.36	3.82	82.18	1.54
1380	20.964	0.327	32.334	11.246	0.042	1.832E-14	223.02	6.55	64.21	0.38
1500	15.311	2.309	75.034	10.163	0.205	8.650E-15	165.53	47.71	20.23	0.08

J=0.00615 For all

[Zhang et al. \(2010\)](#)

Sample: 9-1k

Temp(°C)	$(^{40}\text{Ar}/^{39}\text{Ar})_m$	$^{36}\text{Ar}/^{39}\text{Ar})_m$	$^{37}\text{Ar}/^{39}\text{Ar})_m$	$^{*40}\text{Ar}/^{39}\text{Ar}$	^{39}Ar (E-14 moles)	Age/Ma	error	^{39}Ar cum/%
500	197.23019	0.61910	1.03740	14.36690	10.15	378.00	87.00	1.11
600	48.00310	0.10380	4.09350	17.67920	17.41	455.00	41.70	3
700	16.68300	0.02160	7.38150	10.87880	90.87	293.30	6.40	12.9
800	11.97710	0.00770	7.22970	10.26490	135.28	277.90	4.90	27.63
900	11.43510	0.00710	4.15410	9.66160	148.74	262.70	4.20	43.82
1000	11.71460	0.00810	3.68950	9.61450	120.06	261.50	3.40	56.9
1100	14.18620	0.01670	3.99890	9.55280	30.72	260.00	5.00	60.24
1200	13.72460	0.01420	4.11300	9.85380	39.36	267.60	5.10	64.53
1300	12.04710	0.00700	3.29600	10.24770	194.72	277.50	4.20	85.73
1400	12.78650	0.00820	4.49870	10.72890	131.05	289.50	3.80	100

J=0.016227; W=140.50 mg; $\lambda=5.543e^{-10}/a$; *Ar is radiogenic ^{40}Ar

[Zhou et al. \(2010\)](#)

Sample: YT6-1, YT6-2, YT6-3, YM16-3 and YD2-2

Step	Temp(°C)	⁴⁰ Ar/ ³⁹ Ar	³⁷ Ar/ ³⁹ Ar	³⁶ Ar/ ³⁹ Ar	⁴⁰ Ar*/ ³⁹ Ar	⁴⁰ Ar* (%)	³⁹ Ar cum/%	Age (Ma)	±	□
YT6-1 Basalt, J=0.002520 ± 0.000006, Weight = 10.5 mg										
1	700	515.04919	0.89282	1.49051	74.731424	14.50	6.47	312.01	67.46	
2	750	168.99626	0.79802	0.32248	73.817029	43.65	4.43	308.50	15.16	
3	800	128.54126	0.92493	0.18744	73.284149	56.97	2.97	306.45	9.08	
4	850	112.18981	0.67702	0.12902	74.161182	66.07	2.95	309.82	6.77	
5	890	93.34155	0.49643	0.07607	70.930653	75.96	2.89	297.38	4.52	
6	930	79.49609	0.51006	0.04051	67.594231	84.99	4.42	284.43	3.31	
7	970	75.43877	0.54939	0.03158	66.180992	87.69	7.84	278.92	3.06	
8	1010	72.59729	0.62523	0.02675	64.775815	89.18	12.23	273.43	2.87	
9	1040	74.17975	0.90678	0.03502	63.953921	86.15	10.99	270.20	3.03	
10	1090	78.19897	0.81758	0.05589	61.923654	79.06	20.70	262.22	3.64	
11	1130	83.70043	0.73961	0.08044	60.418997	71.95	19.56	256.28	4.49	
12	1170	88.69902	0.656	0.09078	62.625886	70.26	4.03	264.98	4.98	
13	1220	117.35839	0.43463	0.15288	73.235982	62.01	0.51	306.27	8.37	
YT6-2 Basalt, J=0.002521 ± 0.000006, Weight = 10.5 mg										
1	700	177.62584	0.59245	0.40927	56.761194	31.94	15.70	241.84	19.35	
2	740	174.60465	0.83201	0.38927	60.205703	34.34	7.93	255.53	18.56	
3	780	68.81836	0.46374	0.02837	60.495797	87.87	4.78	256.68	6.10	
4	820	70.20153	0.20568	0.02909	61.631976	87.78	4.44	261.17	3.88	
5	860	67.85964	0.17711	0.0303	58.928424	86.83	5.02	250.47	3.23	
6	900	72.09289	0.49523	0.03954	60.47355	83.85	5.94	256.59	4.33	
7	940	69.06135	0.41832	0.03536	58.665831	84.92	7.28	249.42	3.59	
8	980	65.57486	0.3943	0.02792	57.374542	87.47	8.60	244.29	3.55	
9	1020	66.62644	0.56592	0.02662	58.833748	88.26	10.37	250.09	2.98	
10	1060	67.90185	0.58634	0.02605	60.280064	88.73	13.24	255.82	3.00	
11	1100	77.60028	0.57915	0.03921	66.227226	85.23	13.36	279.21	3.86	
12	1140	108.61473	0.92217	0.09613	80.791625	74.14	2.98	335.23	6.92	
13	1180	146.40996	0.01804	0.17581	94.460362	64.52	0.37	386.27	49.86	
YT6-3 Basalt, J=0.002521 ± 0.000006, Weight = 9.9 mg										
1	650	111.15001	0.24672	0.13326	71.807032	64.59	6.26	300.76	6.73	
2	700	415.12909	0.42106	1.19625	61.824203	14.87	11.31	261.83	55.44	
3	750	253.57399	0.07625	0.65016	61.725978	24.30	5.61	261.44	30.30	
4	800	77.74346	0.46136	0.04783	63.67185	81.87	4.78	269.10	3.46	
5	850	75.91913	0.35287	0.03806	64.718366	85.22	4.46	273.20	3.17	
6	900	76.6026	0.40469	0.04227	64.166593	83.74	5.19	271.04	3.26	
7	940	78.14302	0.63646	0.0506	63.276624	80.93	6.26	267.54	3.51	
8	980	72.88902	0.82728	0.03571	62.445694	85.61	8.30	264.28	3.03	
9	1020	71.23926	0.96903	0.03147	62.067365	87.05	10.14	262.79	2.92	
10	1060	71.85628	0.40116	0.03409	61.96904	86.14	12.54	262.40	2.95	

11	1100	77.2123	0.71999	0.04441	64.455028	83.28	15.94	272.17	3.30
12	1130	85.96362	0.13644	0.05679	69.898311	80.96	8.03	293.38	3.82
13	1170	120.02105	0.85688	0.12218	84.804489	70.31	1.12	350.23	6.61
14	1250	434.32932	0.71478	0.90277	170.643965	38.83	0.06	646.82	48.35

YM16 -3 Rhyolite, $J=0.002521 \pm 0.000006$, Weight = 11.4 mg

1	650	103.61966	0.00111	0.12642	66.264541	63.95	2.76	279.25	6.38
2	700	217.14637	0.00178	0.5267	61.507719	28.33	5.16	260.58	24.51
3	750	74.77844	0.0059	0.0394	63.137625	84.43	5.39	267.00	3.11
4	800	64.51632	0.00644	0.0069	62.476532	96.84	8.15	264.40	2.52
5	840	65.6605	0.00521	0.00887	63.039862	96.01	12.39	266.61	2.55
6	870	66.17097	0.00513	0.01245	62.491772	94.44	7.64	264.46	2.55
7	910	65.24072	0.00353	0.00781	62.933781	96.46	7.19	266.20	2.53
8	950	65.55341	0.00638	0.0079	63.220951	96.44	6.95	267.33	2.54
9	990	65.8339	0.00785	0.00819	63.414817	96.32	6.79	268.09	2.56
10	1030	66.26767	0.00959	0.00868	63.703304	96.13	6.98	269.22	2.59
11	1070	66.44149	0.01464	0.00927	63.702798	95.88	7.52	269.22	2.59
12	1100	68.08442	0.01368	0.01212	64.503745	94.74	5.75	272.36	2.63
13	1140	68.44456	0.0103	0.01277	64.673133	94.49	6.06	273.02	2.64
14	1180	71.64141	0.0013	0.01967	65.829333	91.89	4.68	277.55	2.77
15	1220	75.72225	0.00102	0.03094	66.578286	87.92	3.31	280.47	3.01
16	1320	88.63114	0.00786	0.06984	67.995125	76.72	2.29	285.99	4.20
17	1400	87.55155	0.01442	0.0565	70.856496	80.93	1.00	297.09	3.85

YM16 -3 Metamorphic diabase, $J=0.002520 \pm 0.000006$, Weight = 10.5 mg

1	650	193.7873	0.15254	0.48159	51.992794	26.73	1.77	220.40	23.38
2	700	760.96052	12.56595	2.39805	53.913481	7.01	5.37	228.05	68.01
3	750	268.68568	11.76105	0.73741	52.240746	19.25	5.83	221.39	34.94
4	800	84.53467	1.38043	0.08741	58.885125	69.58	5.84	247.70	4.73
5	850	77.04102	1.08347	0.05871	59.834796	77.59	6.33	251.43	3.65
6	900	75.0052	0.80561	0.0472	61.165558	81.49	9.53	256.64	3.28
7	950	74.24617	0.60663	0.04581	60.788296	81.83	12.90	255.16	3.25
8	990	66.14269	0.64681	0.02815	57.906837	87.50	14.44	243.85	2.68
9	1030	63.84075	0.8169	0.02569	56.353342	88.21	15.07	237.72	2.58
10	1060	67.18732	0.9955	0.03108	58.132914	86.45	9.02	244.74	2.76
11	1090	72.09747	1.17626	0.03909	60.70202	84.11	6.99	254.82	3.08
12	1170	80.60323	1.87544	0.06161	62.646466	77.60	6.13	262.42	3.83
13	1250	110.86902	2.93439	0.16323	63.027214	56.71	0.63	263.91	8.27
14	1330	144.69036	3.0181	0.26732	66.112818	45.58	0.15	275.89	18.52

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Sample: YG-2 and YG-14

Incremental Heating		$^{36}\text{Ar(a)}$	$^{38}\text{Ar(cl)}$	$^{39}\text{Ar(k)}$	$^{40}\text{Ar(r)}$	Age \pm 2s	$^{40}\text{Ar(r)}$	$^{39}\text{Ar(k)}$
Steps	Laser (%)	(V)	(V)	(V)	(V)	(Ma)	(%)	(%)
<i>(a) YG-2 (whole rock); J=0.00360</i>								
10G2204D	5	0.026	0.01	9.132	455.61	298.1 \pm 1.2	98.36	11.75
10G2204E	5.4	0.012	0.009	9.362	458.827	293.2 \pm 1.2	99.23	12.05
10G2204G	5.8	0.005	0.007	8.231	398.553	290.0 \pm 1.2	99.62	10.59
10G2204H	6.2	0.002	0.005	6.041	292.708	290.1 \pm 1.3	99.8	7.77
10G2204I	6.8	0.001	0.006	5.812	279.134	287.8 \pm 1.2	99.85	7.48
10G2204J	7.5	0.004	0.013	10.208	487.209	286.1 \pm 1.2	99.77	13.13
10G2204L	8	0.005	0.008	6.644	315.596	284.9 \pm 1.2	99.57	8.55
10G2204M	9	0.003	0.007	4.607	217.984	283.8 \pm 1.2	99.61	5.93
10G2204N	10.5	0.003	0.007	5.456	254.749	280.4 \pm 1.2	99.6	7.02
10G2204O	12	0.004	0.003	2.897	136.955	283.6 \pm 1.3	99.2	3.73
10G2204Q	16	0.007	0.007	6.212	292.888	282.9 \pm 1.2	99.33	7.99
10G2204R	19	0.002	0.001	0.654	30.948	284.1 \pm 4.3	98.51	0.84
<i>T1=287.3\pm4.0 Ma; T2=286.7\pm2.7 Ma; T3=288.3\pm5.3 Ma; T4=281.5\pm5.0 Ma</i>								
<i>(b) YG-14 (whole rock); J=0.00372</i>								
10G2208D	4.8	0.04	0.002	1.811	82.712	283.0 \pm 6.3	87.46	1.8
10G2208E	5.1	0.031	0.003	2.578	120.115	288.3 \pm 4.4	92.88	2.57
10G2208G	5.5	0.024	0.004	6.572	309.229	290.9 \pm 2.2	97.71	6.54
10G2208H	5.8	0.02	0.003	5.007	233.623	288.6 \pm 1.3	97.51	4.99
10G2208I	6.3	0.014	0.008	9.291	443.546	294.8 \pm 1.3	99.06	9.25
10G2208J	6.7	0.007	0.011	11.361	536.335	291.8 \pm 1.2	99.63	11.31
10G2208L	7.2	0.003	0.009	8.144	379.489	288.3 \pm 1.1	99.76	8.11
10G2208M	7.8	0.005	0.01	11.292	525.654	288.0 \pm 1.1	99.72	11.25
10G2208N	8.3	0.003	0.006	7.009	324.912	286.9 \pm 1.2	99.75	6.98
10G2208O	9	0.002	0.008	6.454	298.968	286.7 \pm 1.2	99.82	6.43
10G2208Q	10	0.005	0.006	5.745	265.124	285.7 \pm 1.2	99.46	5.72
10G2208R	12	0.004	0.005	4.511	208.036	285.5 \pm 1.4	99.37	4.49
10G2208S	16	0.011	0.015	13.539	624.99	285.8 \pm 1.1	99.47	13.48
10G2208T	20	0.008	0.005	4.168	191.069	283.9 \pm 1.2	98.85	4.15
10G2208V	26	0.003	0.001	1.49	68.735	285.6 \pm 2.9	98.91	1.48
<i>T1=287.9\pm3.1 Ma; T2=287.6\pm2.7 Ma; T3=287.4\pm3.1 Ma; T4=287.8\pm3.5 Ma</i>								
T1: Weighted plateau age; T2: total fusion age; T3: isochron age; T4: inverse isochron age. All ages are given at the 2 σ level.								

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