Table DR2 - *$^{40}Ar/^{39}Ar$ Analytical Data*

57-6877 Groundmass ***J = 0.0024971***

Temp (°C)	$^{40}Ar/^{39}Ar$[1]	$^{38}Ar/^{39}Ar$[1]	$^{37}Ar/^{39}Ar$[1]	$^{36}Ar/^{39}Ar$[1]	^{39}Ar(moles)	% ^{39}Ar	%^{40}Ar*	$^{40}Ar^*/^{39}Ar_K$[2]	Age (Ma)[3]	±1σ (Ma)[4]
600	121.2548	0.0875	0.5171	0.3873	6.33E-14	11.72	5.65	6.850	30.67	5.51
650	65.2771	0.0508	1.4474	0.2087	6.90E-14	24.48	5.68	3.714	16.69	3.46
700	34.4778	0.0328	1.7882	0.1087	7.41E-14	38.18	7.27	2.510	11.30	1.51
750	18.2837	0.0226	2.4361	0.0535	8.22E-14	53.36	14.49	2.653	11.94	0.84
800	12.3330	0.0179	2.7573	0.0338	7.80E-14	67.76	20.81	2.572	11.58	0.60
850	9.7526	0.0170	2.8829	0.0258	4.23E-14	75.57	24.11	2.356	10.61	0.39
900	9.0135	0.0165	2.8314	0.0229	2.47E-14	80.13	27.25	2.461	11.08	0.40
950	9.7252	0.0173	3.0220	0.0258	1.59E-14	83.07	24.04	2.343	10.55	0.52
1000	10.4469	0.0176	3.0106	0.0279	1.46E-14	85.76	23.34	2.444	11.00	0.48
1070	9.6029	0.0170	2.6872	0.0252	2.58E-14	90.53	24.69	2.375	10.69	0.42
1250	14.2940	0.0200	13.0045	0.0433	4.96E-14	99.63	17.50	2.524	11.36	0.77
1350	146.4947	0.0961	27.0683	0.4625	2.04E-15	100.00	8.14	12.143	54.02	7.11
								Total Gas Age =	14.45	1.68

BK1-654 Groundmass ***J = 0.0020397***

Temp (°C)	$^{40}Ar/^{39}Ar$[1]	$^{38}Ar/^{39}Ar$[1]	$^{37}Ar/^{39}Ar$[1]	$^{36}Ar/^{39}Ar$[1]	^{39}Ar(moles)	% ^{39}Ar	%^{40}Ar*	$^{40}Ar^*/^{39}Ar_K$[2]	Age (Ma)[3]	±1σ (Ma)[4]
500	39.0509	0.0603	2.3758	0.1190	6.91E-16	0.87	10.40	4.069	14.91	1.20
600	11.4396	0.0221	2.6107	0.0335	2.37E-15	3.85	15.24	1.747	6.42	0.42
650	5.4872	0.0154	2.0352	0.0108	1.16E-14	7.21	44.60	2.451	9.00	0.15
700	4.4940	0.0148	1.8438	0.0074	1.73E-14	12.19	54.26	2.441	8.96	0.11
750	3.6293	0.0153	1.7757	0.0048	7.27E-15	21.32	64.28	2.336	8.58	0.12
800	3.2035	0.0158	1.4486	0.0031	2.22E-14	27.72	74.50	2.389	8.77	0.08
850	3.6545	0.0195	1.2860	0.0046	7.65E-15	37.34	65.16	2.384	8.75	0.11
900	3.9424	0.0243	1.1457	0.0054	2.33E-14	44.06	61.53	2.428	8.91	0.07
950	4.3184	0.0284	1.1055	0.0068	1.01E-14	56.75	55.01	2.377	8.73	0.12
1000	4.6975	0.0334	0.8598	0.0080	1.16E-14	71.29	50.65	2.381	8.74	0.10
1100	4.1839	0.0613	1.2715	0.0066	9.32E-15	83.00	55.42	2.321	8.52	0.07
1350	5.2059	0.0832	3.3239	0.0098	1.35E-14	100.00	49.24	2.570	9.43	0.13
								Total Gas Age =	8.83	0.10

CHM-4 Plagioclase ***J = 0.0024979***

Temp (°C)	$^{40}Ar/^{39}Ar$[1]	$^{38}Ar/^{39}Ar$[1]	$^{37}Ar/^{39}Ar$[1]	$^{36}Ar/^{39}Ar$[1]	^{39}Ar(moles)	% ^{39}Ar	% $^{40}Ar^*$	$^{40}Ar^*/^{39}Ar_K$[2]	Age (Ma)[3]	±1σ (Ma)[4]
650	40.6085	0.0373	8.3875	0.1278	2.27E-15	2.15	8.59	3.506	15.77	1.94
750	3.7067	0.0128	10.0358	0.0078	6.83E-15	8.60	59.06	2.204	9.93	0.32
850	3.2304	0.0124	11.2365	0.0067	1.62E-14	23.91	65.73	2.140	9.64	0.25
900	2.3976	0.0120	11.1391	0.0040	1.93E-14	42.13	86.65	2.093	9.43	0.23
950	2.3201	0.0121	12.0172	0.0040	1.71E-14	58.30	88.92	2.080	9.37	0.25
1000	2.2889	0.0121	13.2279	0.0041	1.40E-14	71.52	91.64	2.117	9.54	0.29
1050	2.4184	0.0122	13.2295	0.0044	8.87E-15	79.88	88.88	2.169	9.77	0.34
1100	2.6943	0.0121	8.7918	0.0039	5.50E-15	85.08	82.34	2.232	10.05	0.44
1150	2.9407	0.0121	5.5371	0.0042	4.98E-15	89.80	72.03	2.126	9.58	0.52
1250	2.9362	0.0129	11.7265	0.0055	5.64E-15	95.12	75.80	2.243	10.11	0.60
1350	2.7277	0.0129	14.3919	0.0055	5.19E-15	100.00	81.00	2.231	10.05	0.80
								Total Gas Age =	9.77	0.30

CHM-38 Plagioclase ***J = 0.0020397***

Temp (°C)	$^{40}Ar/^{39}Ar$[1]	$^{38}Ar/^{39}Ar$[1]	$^{37}Ar/^{39}Ar$[1]	$^{36}Ar/^{39}Ar$[1]	^{39}Ar(moles)	% ^{39}Ar	% $^{40}Ar^*$	$^{40}Ar^*/^{39}Ar_K$[2]	Age (Ma)[3]	±1σ (Ma)[4]
650	18.8028	0.0364	1.8513	0.0543	4.07E-15	14.02	15.36	2.891	10.61	0.44
750	4.2190	0.0195	6.7404	0.0086	1.13E-14	22.90	52.27	2.216	8.14	0.19
850	3.2104	0.0150	7.9406	0.0053	1.31E-14	33.24	70.94	2.290	8.41	0.18
900	2.8887	0.0142	8.4894	0.0043	9.58E-15	40.78	79.42	2.308	8.47	0.22
950	2.7721	0.0135	8.7593	0.0043	9.07E-15	47.92	79.08	2.206	8.10	0.23
1000	2.8007	0.0139	9.0495	0.0042	1.09E-14	56.53	81.41	2.294	8.42	0.23
1050	2.8676	0.0140	8.6099	0.0044	1.10E-14	65.16	79.11	2.282	8.38	0.23
1100	3.2317	0.0145	7.5880	0.0052	1.19E-14	74.56	70.81	2.301	8.45	0.23
1150	3.6497	0.0153	6.9202	0.0066	9.42E-15	81.99	61.79	2.266	8.32	0.26
1250	3.8604	0.0167	5.4359	0.0068	1.48E-14	93.66	59.01	2.287	8.40	0.21
1350	4.0680	0.0236	8.1686	0.0082	8.05E-15	100.00	56.53	2.313	8.49	0.40
								Total Gas Age =	8.67	0.12

CHM-39 Plagioclase ***J = 0.0020397***

Temp (°C)	$^{40}Ar/^{39}Ar$[1]	$^{38}Ar/^{39}Ar$[1]	$^{37}Ar/^{39}Ar$[1]	$^{36}Ar/^{39}Ar$[1]	^{39}Ar(moles)	% ^{39}Ar	% $^{40}Ar^*$	$^{40}Ar^*/^{39}Ar_K$[2]	Age (Ma)[3]	±1σ (Ma)[4]
650	23.8963	0.0366	18.9118	0.0743	1.64E-15	4.39	14.52	3.517	12.90	1.04
750	9.5777	0.0174	22.4464	0.0297	2.77E-15	11.80	27.53	2.679	9.83	0.54
850	6.3078	0.0156	23.3987	0.0191	6.65E-15	29.67	40.94	2.625	9.64	0.45
900	4.0276	0.0138	23.8711	0.0115	4.98E-15	43.07	63.79	2.613	9.59	0.48
950	3.8870	0.0142	24.3064	0.0111	4.61E-15	55.45	66.69	2.637	9.68	0.48
1000	4.1769	0.0152	23.2003	0.0117	3.57E-15	65.04	62.96	2.673	9.81	0.47
1050	5.0730	0.0173	22.9710	0.0147	2.10E-15	70.63	51.33	2.646	9.71	0.66
1100	5.1051	0.0177	22.0591	0.0142	1.84E-15	75.45	53.32	2.765	10.15	0.75
1150	5.0506	0.0181	22.6977	0.0152	2.34E-15	81.50	47.88	2.457	9.02	0.57
1250	4.8240	0.0170	21.4117	0.0136	3.39E-15	90.01	53.22	2.606	9.57	0.60
1350	4.3172	0.0156	22.4299	0.0121	4.16E-15	100.00	59.33	2.602	9.55	0.62
								Total Gas Age =	9.29	0.20

FDN-3 Groundmass ***J = 0.0020397***

Temp (°C)	$^{40}Ar/^{39}Ar$[1]	$^{38}Ar/^{39}Ar$[1]	$^{37}Ar/^{39}Ar$[1]	$^{36}Ar/^{39}Ar$[1]	^{39}Ar(moles)	% ^{39}Ar	% $^{40}Ar^*$	$^{40}Ar^*/^{39}Ar_K$[2]	Age (Ma)[3]	±1σ (Ma)[4]
500	39.3076	0.1774	0.7870	0.1212	1.17E-15	12.12	9.00	3.541	12.98	1.52
600	11.7804	0.1300	1.0270	0.0322	5.27E-15	22.23	19.68	2.320	8.52	0.35
650	7.1844	0.0937	1.5305	0.0164	4.03E-15	29.95	34.10	2.452	9.00	0.22
700	5.8955	0.0615	2.4011	0.0119	1.57E-14	36.88	43.56	2.572	9.44	0.19
750	5.7415	0.0463	2.9415	0.0111	1.48E-14	43.42	46.53	2.677	9.83	0.19
800	5.2808	0.0409	2.3166	0.0094	4.69E-15	52.41	50.55	2.674	9.81	0.20
850	5.0456	0.0389	2.2484	0.0084	1.85E-14	60.54	54.19	2.738	10.05	0.15
900	4.3330	0.0322	2.8414	0.0062	1.70E-14	68.02	62.77	2.725	10.00	0.16
950	4.1298	0.0362	2.8765	0.0057	1.55E-14	74.83	64.12	2.653	9.74	0.19
1000	4.2123	0.0409	2.7057	0.0058	1.65E-14	82.11	64.17	2.708	9.94	0.20
1100	5.0985	0.0530	4.3502	0.0092	1.25E-14	87.59	53.19	2.720	9.98	0.30
1350	7.6656	0.0513	16.5796	0.0211	6.54E-15	100.00	36.25	2.811	10.32	0.38
								Total Gas Age =	10.09	0.22

FDN-8 Plagioclase ***J = 0.0020397***

Temp (°C)	$^{40}Ar/^{39}Ar$[1]	$^{38}Ar/^{39}Ar$[1]	$^{37}Ar/^{39}Ar$[1]	$^{36}Ar/^{39}Ar$[1]	^{39}Ar(moles)	% ^{39}Ar	% $^{40}Ar^*$	$^{40}Ar^*/^{39}Ar_K$[2]	Age (Ma)[3]	±1σ (Ma)[4]
650	34.4400	0.0764	6.1389	0.0966	2.98E-15	4.23	18.54	6.412	23.44	1.14
750	13.5430	0.0236	10.2093	0.0282	3.71E-15	9.48	44.56	6.079	22.23	0.42
850	10.6415	0.0195	15.5877	0.0220	6.60E-15	18.78	50.95	5.481	20.06	0.36
900	6.6738	0.0159	18.5252	0.0125	6.02E-15	27.25	67.49	4.563	16.71	0.39
950	8.8006	0.0178	18.8466	0.0199	6.45E-15	36.32	50.58	4.510	16.52	0.44
1000	7.1380	0.0165	18.5010	0.0141	6.20E-15	45.03	62.87	4.547	16.65	0.39
1050	7.5586	0.0167	17.5709	0.0138	5.51E-15	52.76	65.08	4.981	18.23	0.38
1100	10.1655	0.0193	14.7498	0.0179	4.96E-15	59.71	59.64	6.126	22.40	0.38
1150	13.6315	0.0265	11.0679	0.0231	4.20E-15	65.57	56.45	7.755	28.31	0.46
1250	15.4367	0.0394	11.4412	0.0268	3.30E-15	85.70	54.65	8.504	31.02	0.48
1350	17.9202	0.0413	11.6059	0.0350	2.39E-15	100.00	47.56	8.592	31.34	0.57
								Total Gas Age =	23.75	0.29

MGA-2 Plagioclase ***J = 0.0024976***

Temp (°C)	$^{40}Ar/^{39}Ar$[1]	$^{38}Ar/^{39}Ar$[1]	$^{37}Ar/^{39}Ar$[1]	$^{36}Ar/^{39}Ar$[1]	^{39}Ar(moles)	% ^{39}Ar	%$^{40}Ar^*$	$^{40}Ar^*/^{39}Ar_K$[2]	Age (Ma)[3]	±1σ (Ma)[4]
650	150.9309	0.0995	4.3277	0.4794	4.23E-15	3.36	6.35	9.619	42.93	8.19
750	49.9958	0.0410	9.8021	0.1614	7.20E-15	9.05	6.12	3.079	13.85	2.42
850	21.8612	0.0253	11.5305	0.0705	1.22E-14	18.67	8.74	1.926	8.68	1.09
900	10.1547	0.0177	11.2626	0.0318	9.71E-15	26.35	15.96	1.633	7.36	0.55
950	7.2834	0.0155	10.9427	0.0224	9.70E-15	34.01	20.89	1.533	6.91	0.45
1000	6.4902	0.0149	9.2880	0.0197	9.99E-15	41.92	21.25	1.388	6.26	0.41
1050	6.2488	0.0150	8.3081	0.0184	9.93E-15	49.78	23.24	1.461	6.58	0.41
1100	10.3802	0.0170	7.3906	0.0317	1.06E-14	58.17	15.28	1.594	7.18	0.65
1150	14.3773	0.0198	8.2665	0.0445	8.27E-15	64.72	13.06	1.888	8.51	0.87
1250	35.6885	0.0321	10.0116	0.1126	2.28E-14	82.71	8.92	3.205	14.42	1.96
1350	35.7839	0.0312	10.3394	0.1128	2.19E-14	100.00	9.06	3.264	14.68	2.05
								Total Gas Age =	11.48	1.24

NZM-66 Plagioclase ***J = 0.0024974***

Temp (°C)	$^{40}Ar/^{39}Ar$[1]	$^{38}Ar/^{39}Ar$[1]	$^{37}Ar/^{39}Ar$[1]	$^{36}Ar/^{39}Ar$[1]	^{39}Ar(moles)	% ^{39}Ar	%$^{40}Ar^*$	$^{40}Ar^*/^{39}Ar_K$[2]	Age (Ma)[3]	±1σ (Ma)[4]
650	132.9975	0.0888	35.0168	0.4415	1.26E-15	2.92	3.97	5.403	24.24	7.26
750	41.3367	0.0332	65.7291	0.1499	3.00E-15	9.72	5.25	2.273	10.24	3.08
850	19.6703	0.0245	57.5611	0.0757	8.48E-15	29.07	9.06	1.855	8.36	1.64
900	7.9506	0.0165	52.4102	0.0362	6.32E-15	43.55	16.80	1.385	6.24	1.15
950	4.6357	0.0140	53.1668	0.0254	5.41E-15	55.94	27.50	1.323	5.96	1.14
1000	5.0853	0.0150	45.1311	0.0249	5.30E-15	68.13	24.30	1.275	5.75	0.94
1050	6.1626	0.0151	38.8724	0.0274	4.45E-15	78.42	17.70	1.120	5.05	1.01
1100	6.0312	0.0150	29.3572	0.0235	3.40E-15	86.32	22.82	1.404	6.33	1.05
1150	8.1924	0.0158	32.1868	0.0306	1.84E-15	90.59	20.17	1.690	7.62	1.86
1250	10.3706	0.0171	46.5801	0.0402	2.11E-15	95.45	20.56	2.201	9.91	2.10
1350	15.1618	0.0197	46.5468	0.0567	1.98E-15	100.00	13.47	2.109	9.50	2.64
								Total Gas Age =	7.63	1.10

PIL-335 Groundmass ***J = 0.0024959***

Temp (°C)	$^{40}Ar/^{39}Ar$[1]	$^{38}Ar/^{39}Ar$[1]	$^{37}Ar/^{39}Ar$[1]	$^{36}Ar/^{39}Ar$[1]	^{39}Ar(moles)	% ^{39}Ar	% $^{40}Ar^*$	$^{40}Ar^*/^{39}Ar_K$[2]	Age (Ma)[3]	±1σ (Ma)[4]
500	37.0181	0.0400	2.0720	0.1217	2.31E-15	0.52	3.26	1.207	5.44	2.28
600	6.0213	0.0162	2.0120	0.0167	7.76E-15	2.25	20.54	1.239	5.58	0.43
650	4.1551	0.0140	1.7167	0.0095	1.11E-14	4.75	35.88	1.493	6.72	0.29
700	3.8784	0.0129	1.9035	0.0077	1.93E-14	9.07	45.32	1.760	7.93	0.19
750	3.4051	0.0125	1.9228	0.0057	2.79E-14	15.32	54.68	1.864	8.39	0.14
800	2.6958	0.0121	1.5575	0.0034	3.86E-14	23.97	66.78	1.802	8.12	0.13
850	2.4808	0.0119	1.1813	0.0025	4.87E-14	34.87	73.51	1.825	8.22	0.10
900	2.2110	0.0122	1.1122	0.0015	5.40E-14	46.98	83.93	1.857	8.36	0.08
950	2.2149	0.0120	1.0586	0.0016	5.53E-14	59.37	82.57	1.830	8.24	0.08
1000	2.3226	0.0122	0.8976	0.0019	5.51E-14	71.72	78.58	1.826	8.22	0.09
1070	2.5300	0.0124	0.6934	0.0026	8.95E-14	91.77	71.47	1.809	8.15	0.07
1350	3.3613	0.0148	2.2730	0.0057	3.67E-14	100.00	54.74	1.843	8.30	0.14
								Total Gas Age =	8.12	0.18

SKO-3 Groundmass ***J = 0.0020397***

Temp (°C)	$^{40}Ar/^{39}Ar$[1]	$^{38}Ar/^{39}Ar$[1]	$^{37}Ar/^{39}Ar$[1]	$^{36}Ar/^{39}Ar$[1]	^{39}Ar(moles)	% ^{39}Ar	% $^{40}Ar^*$	$^{40}Ar^*/^{39}Ar_K$[2]	Age (Ma)[3]	±1σ (Ma)[4]
500	13.8136	0.0290	0.5494	0.0429	4.14E-15	4.75	8.44	1.166	4.29	0.37
600	5.7446	0.0203	0.9574	0.0102	5.52E-15	11.08	48.66	2.797	10.26	0.14
650	4.0425	0.0157	0.8704	0.0033	6.96E-15	19.07	76.79	3.106	11.39	0.09
700	3.5376	0.0139	0.9143	0.0021	1.07E-14	31.31	83.94	2.972	10.90	0.06
750	3.2664	0.0137	1.2522	0.0016	1.17E-14	44.73	87.84	2.872	10.54	0.07
800	3.2256	0.0139	1.7243	0.0021	1.00E-14	56.19	84.45	2.727	10.01	0.07
850	2.9680	0.0154	1.6683	0.0011	9.55E-15	67.14	92.44	2.747	10.08	0.09
900	3.0178	0.0188	1.7907	0.0013	8.49E-15	76.87	90.93	2.748	10.08	0.10
950	3.1232	0.0262	1.6427	0.0018	7.34E-15	85.28	86.74	2.712	9.95	0.11
1000	3.1968	0.0314	1.1269	0.0018	1.93E-14	90.37	85.45	2.734	10.03	0.17
1100	3.4720	0.0279	1.1743	0.0029	2.08E-14	95.86	77.56	2.695	9.89	0.18
1350	4.2410	0.0371	10.5132	0.0081	1.59E-14	100.00	63.65	2.719	9.98	0.37
								Total Gas Age =	10.05	0.11

SKO-28A Plagioclase ***J = 0.0020397***

Temp (°C)	$^{40}Ar/^{39}Ar$[1]	$^{38}Ar/^{39}Ar$[1]	$^{37}Ar/^{39}Ar$[1]	$^{36}Ar/^{39}Ar$[1]	^{39}Ar(moles)	% ^{39}Ar	% $^{40}Ar^*$	$^{40}Ar^*/^{39}Ar_K$[2]	Age (Ma)[3]	±1σ (Ma)[4]
650	20.7021	0.0328	6.1495	0.0603	2.58E-15	2.87	16.25	3.379	12.39	0.84
750	5.0910	0.0147	7.1944	0.0091	5.23E-15	8.67	58.44	2.990	10.97	0.24
850	3.6628	0.0137	7.6063	0.0049	1.28E-14	22.85	76.67	2.823	10.36	0.15
900	3.2097	0.0135	7.7260	0.0035	1.07E-14	34.69	86.50	2.791	10.24	0.15
950	3.1270	0.0134	7.7248	0.0034	9.93E-15	45.71	87.70	2.757	10.12	0.15
1000	3.2228	0.0144	7.6980	0.0037	7.12E-15	53.61	85.42	2.768	10.16	0.18
1050	3.4452	0.0161	7.5185	0.0045	4.72E-15	58.85	79.10	2.740	10.05	0.21
1100	3.2793	0.0147	7.3184	0.0041	1.22E-14	72.39	80.94	2.668	9.79	0.15
1150	3.2968	0.0144	7.3456	0.0041	7.40E-15	80.60	80.98	2.684	9.85	0.18
1250	3.3300	0.0151	7.5289	0.0042	8.12E-15	89.61	80.74	2.703	9.92	0.21
1350	3.2754	0.0150	7.4597	0.0040	9.39E-15	100.00	82.13	2.704	9.92	0.19
								Total Gas Age =	10.18	0.12

[1] Corrected for mass spectrometer background, extraction line blank, mass discrimination, and radioactive decay of ^{37}Ar and ^{39}Ar.

[2] Corrected for (1) above plus atmospheric argon and neutron-induced interferences.

[3] Ages calculated using the decay constants of Steiger and Jager (1977).

[4] Analytical uncertainties quoted at the 1σ level. Uncertainties for total-gas ages include a 1% J-factor contribution.