Supplement 1: $^{40}Ar/^{39}Ar$ analytical data

412-14 Enmyvaam suite Weighted average of J from standards = 0.007835 +/- 0.000026

Temp. (Deg C)	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)**
400	0.044	9.9510	0.0157	0.9544	0.0028	0.0175	0.0009	51.3	1.752	0.005	0.02657	0.00022	4.838	0.256	**67.1**	**3.5**
500	0.156	6.7409	0.0077	0.8443	0.0013	0.0070	0.0003	30.0	1.550	0.002	0.02339	0.00009	4.699	0.101	**65.2**	**1.4**
550	0.304	5.6223	0.0063	0.9256	0.0011	0.0032	0.0003	15.8	1.699	0.002	0.02257	0.00007	4.711	0.076	**65.4**	**1.0**
600	0.444	5.4074	0.0061	1.2819	0.0014	0.0017	0.0003	7.5	2.354	0.003	0.02199	0.00007	4.979	0.081	**69.0**	**1.1**
650	0.505	5.0160	0.0072	1.8068	0.0028	0.0000	0.0006	-2.7	3.319	0.005	0.02112	0.00120	5.126	0.186	**71.0**	**2.5**
700	0.555	4.8725	0.0077	2.7495	0.0042	0.0002	0.0008	-3.1	5.054	0.008	0.01797	0.00021	5.005	0.225	**69.4**	**3.1**
750	0.609	4.5832	0.0070	4.5632	0.0061	0.0002	0.0007	-6.5	8.398	0.011	0.01253	0.00024	4.864	0.206	**67.5**	**2.8**
800	0.671	4.1904	0.0061	6.2217	0.0077	0.0003	0.0006	-9.4	11.462	0.014	0.00742	0.00020	4.573	0.184	**63.5**	**2.5**
850	0.720	3.8893	0.0064	6.4207	0.0089	0.0001	0.0008	-11.6	11.831	0.016	0.00520	0.00043	4.325	0.229	**60.1**	**3.1**
900	0.754	3.5947	0.0073	7.0408	0.0123	0.0001	0.0011	-14.2	12.978	0.023	0.00469	0.00108	4.092	0.325	**56.9**	**4.5**
1000	0.778	2.6365	0.0076	7.0877	0.0166	0.0003	0.0016	-17.3	13.065	0.031	0.00507	0.00053	3.072	0.473	**42.9**	**6.5**
1200	0.872	1.9528	0.0028	6.8171	0.0071	0.0016	0.0004	-1.9	12.564	0.013	0.00525	0.00010	1.969	0.120	**27.6**	**1.7**
1600	1.000	2.9225	0.0036	9.8370	0.0095	0.0034	0.0003	9.0	18.166	0.018	0.00379	0.00008	2.651	0.088	**37.1**	**1.2**
Integrated		4.7701	0.0019	3.9641	0.0015	0.0029	0.0001	11.8	7.292	0.003	0.01504	0.00004	4.192	0.041	**58.3**	**0.6**

432-4 Enmyvaam suite Weighted average of J from standards = 0.007835 +/- 0.000026

Temp. (Deg C)	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)**
400	0.005	23.2518	0.1080	0.3002	0.0099	0.0596	0.0035	75.8	0.551	0.018	0.04381	0.00090	5.622	1.024	**77.8**	**13.9**
500	0.079	9.7284	0.0105	0.2095	0.0008	0.0167	0.0003	50.8	0.384	0.001	0.04006	0.00008	4.770	0.075	**66.2**	**1.0**
550	0.182	5.4641	0.0058	0.1913	0.0005	0.0015	0.0002	8.1	0.351	0.001	0.03921	0.00006	4.995	0.053	**69.3**	**0.7**
600	0.300	5.2078	0.0055	0.2564	0.0005	0.0004	0.0002	1.7	0.470	0.001	0.03744	0.00005	5.091	0.047	**70.6**	**0.6**
650	0.400	5.2933	0.0057	0.5288	0.0007	0.0003	0.0002	0.8	0.971	0.001	0.03180	0.00006	5.224	0.055	**72.4**	**0.7**
700	0.496	5.4392	0.0059	1.3343	0.0014	0.0005	0.0002	1.1	2.450	0.002	0.01807	0.00005	5.357	0.057	**74.2**	**0.8**
750	0.589	5.4204	0.0059	2.3848	0.0023	0.0006	0.0002	0.1	4.383	0.004	0.00568	0.00005	5.393	0.059	**74.7**	**0.8**
800	0.710	5.3507	0.0057	2.6404	0.0025	0.0007	0.0002	0.2	4.853	0.005	0.00180	0.00004	5.320	0.045	**73.7**	**0.6**
850	0.795	5.3693	0.0059	2.1662	0.0021	0.0009	0.0002	1.7	3.980	0.004	0.00130	0.00005	5.259	0.065	**72.9**	**0.9**
900	0.865	5.4594	0.0061	1.9086	0.0020	0.0007	0.0003	1.3	3.506	0.004	0.00173	0.00007	5.369	0.078	**74.3**	**1.1**
1000	0.914	5.3543	0.0064	2.2810	0.0026	0.0014	0.0004	4.7	4.192	0.005	0.00582	0.00010	5.084	0.113	**70.5**	**1.5**
1200	0.948	5.1465	0.0069	6.2531	0.0073	0.0027	0.0005	6.6	11.520	0.014	0.01993	0.00014	4.802	0.160	**66.6**	**2.2**
1600	1.000	6.2317	0.0075	12.7299	0.0130	0.0076	0.0004	20.7	23.553	0.024	0.02880	0.00009	4.961	0.104	**68.8**	**1.4**
Integrated		5.8191	0.0019	2.1026	0.0007	0.0027	0.0001	10.8	3.863	0.001	0.01999	0.00002	5.172	0.020	**71.7**	**0.4**

427-2 Emuneret suite Weighted average of J from standards = 0.008294 +/- 0.000023

Temp. (Deg C)	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	0.069	10.1355	0.0103	0.0433	0.0004	0.0138	0.0001	40.4	0.080	0.001	0.00411	0.00003	6.027	0.040	**88.0**	**0.6**
600	0.122	6.7016	0.0069	0.0225	0.0006	0.0022	0.0002	9.8	0.041	0.001	0.00178	0.00004	6.019	0.051	**87.9**	**0.7**
675	0.408	5.9396	0.0059	0.0280	0.0001	0.0011	0.0000	5.6	0.051	0.000	0.00083	0.00001	5.579	0.011	**81.6**	**0.2**
750	0.658	5.8034	0.0058	0.0252	0.0001	0.0007	0.0000	3.7	0.046	0.000	0.00054	0.00001	5.560	0.012	**81.3**	**0.2**
800	0.802	5.7385	0.0059	0.0331	0.0002	0.0008	0.0001	4.1	0.061	0.000	0.00092	0.00002	5.474	0.020	**80.1**	**0.3**
900	0.868	5.5557	0.0059	0.1199	0.0005	0.0014	0.0001	7.1	0.220	0.001	0.00309	0.00004	5.137	0.041	**75.3**	**0.6**
950	0.899	6.0114	0.0069	0.3645	0.0010	0.0026	0.0003	12.3	0.669	0.002	0.00820	0.00007	5.248	0.085	**76.9**	**1.2**
1025	0.927	6.3584	0.0074	0.4841	0.0012	0.0035	0.0003	15.7	0.888	0.002	0.01416	0.00008	5.335	0.097	**78.1**	**1.4**
1100	0.959	5.7067	0.0064	0.5390	0.0011	0.0042	0.0003	20.9	0.989	0.002	0.01276	0.00007	4.492	0.084	**66.0**	**1.2**
1200	0.972	6.8029	0.0104	1.1062	0.0028	0.0092	0.0007	38.8	2.031	0.005	0.01318	0.00019	4.151	0.217	**61.1**	**3.1**
1400	0.981	9.3236	0.0169	1.3671	0.0040	0.0186	0.0010	58.1	2.511	0.007	0.02052	0.00026	3.902	0.301	**57.5**	**4.4**
1600	1.000	8.0294	0.0100	1.0461	0.0019	0.0173	0.0005	63.0	1.921	0.003	0.00942	0.00012	2.958	0.137	**43.7**	**2.0**
1620	1.000	-98.9863	7.0033	-4.8841	0.3850	-0.2625	0.0564	78.0	-8.933	0.702	-0.04426	0.01379	-21.740	15.759	**-358.7**	**287.7**
Integrated		6.2876	0.0026	0.1208	0.0001	0.0028	0.0000	12.9	0.222	0.000	0.00269	0.00001	5.453	0.010	**79.8**	**0.3**

464-1 Emuneret suite Weighted average of J from standards = 0.007571 +/- 0.000021

Laser Power (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	0.005	22.5012	0.1647	0.2721	0.0298	0.0646	0.0021	84.8	0.499	0.055	0.00517	0.00036	3.409	0.598	**46.0**	**8.0**
250	0.022	9.8074	0.0450	0.2542	0.0088	0.0164	0.0005	49.4	0.466	0.016	0.00400	0.00016	4.952	0.144	**66.4**	**1.9**
350	0.061	5.5914	0.0158	0.2888	0.0070	0.0015	0.0002	7.4	0.530	0.013	0.00491	0.00008	5.151	0.047	**69.0**	**0.6**
500	0.126	5.8807	0.0275	0.7162	0.0043	0.0008	0.0001	2.9	1.315	0.008	0.00342	0.00009	5.686	0.041	**76.0**	**0.5**
650	0.189	6.2631	0.0215	1.3949	0.0090	0.0011	0.0001	3.4	2.562	0.016	0.00267	0.00008	6.030	0.039	**80.5**	**0.5**
800	0.251	6.3484	0.0195	1.7503	0.0062	0.0015	0.0001	4.9	3.215	0.011	0.00264	0.00008	6.019	0.033	**80.4**	**0.4**
950	0.329	6.0119	0.0132	0.3552	0.0059	0.0003	0.0001	0.9	0.652	0.011	0.00383	0.00005	5.928	0.030	**79.2**	**0.4**
1100	0.358	5.8901	0.0257	0.1251	0.0047	-0.0002	0.0002	-1.1	0.230	0.009	0.00617	0.00021	5.929	0.060	**79.2**	**0.8**
1300	0.378	5.8510	0.0295	0.1259	0.0084	-0.0001	0.0002	-0.8	0.231	0.015	0.00709	0.00023	5.868	0.066	**78.4**	**0.9**
1500	0.399	5.7657	0.0224	0.0950	0.0041	0.0003	0.0002	1.3	0.174	0.007	0.00895	0.00012	5.661	0.060	**75.7**	**0.8**
2000	0.526	5.9476	0.0134	0.0880	0.0018	0.0008	0.0000	3.7	0.162	0.003	0.01234	0.00009	5.699	0.018	**76.2**	**0.2**
2500	0.673	5.7544	0.0134	0.0910	0.0009	0.0001	0.0000	0.2	0.167	0.002	0.01269	0.00008	5.713	0.017	**76.4**	**0.2**
4000	0.889	5.7725	0.0120	0.1006	0.0013	0.0002	0.0000	0.8	0.185	0.002	0.01224	0.00005	5.696	0.015	**76.2**	**0.2**
8500	1.000	5.7765	0.0207	0.1023	0.0015	0.0001	0.0001	0.4	0.188	0.003	0.01087	0.00011	5.725	0.026	**76.6**	**0.3**
Integrated		6.0374	0.0054	0.3533	0.0010	0.0011	0.0000	4.8	0.648	0.002	0.00893	0.00003	5.724	0.009	**76.5**	**0.2**

462-9 Emuneret suite Weighted average of J from standards = 0.007571 +/- 0.000021

Laser Power (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	0.012	8.8830	0.0333	0.0944	0.0069	0.0210	0.0009	69.9	0.173	0.013	0.00924	0.00027	2.665	0.251	**36.0**	**3.4**
250	0.062	4.6962	0.0206	0.0957	0.0030	0.0040	0.0001	24.9	0.176	0.006	0.00809	0.00017	3.505	0.036	**47.3**	**0.5**
350	0.207	5.5968	0.0101	0.0777	0.0014	0.0003	0.0000	1.5	0.143	0.003	0.00693	0.00008	5.485	0.016	**73.4**	**0.2**
500	0.519	6.3317	0.0176	0.0540	0.0005	0.0000	0.0000	0.0	0.099	0.001	0.00330	0.00003	6.302	0.018	**84.1**	**0.2**
700	0.754	6.2911	0.0157	0.0402	0.0005	0.0000	0.0000	0.0	0.074	0.001	0.00423	0.00003	6.265	0.017	**83.6**	**0.2**
900	0.853	6.1318	0.0149	0.0398	0.0017	-0.0001	0.0001	-0.3	0.073	0.003	0.00845	0.00005	6.124	0.022	**81.8**	**0.3**
1100	0.895	6.0958	0.0174	0.0440	0.0033	0.0001	0.0001	0.3	0.081	0.006	0.01168	0.00012	6.051	0.028	**80.8**	**0.4**
1300	0.917	6.1360	0.0239	0.0490	0.0043	0.0002	0.0001	0.8	0.090	0.008	0.01210	0.00021	6.060	0.047	**80.9**	**0.6**
1500	0.933	6.0706	0.0290	0.0457	0.0063	0.0003	0.0002	1.5	0.084	0.011	0.00980	0.00023	5.954	0.071	**79.5**	**0.9**
2000	0.948	6.1951	0.0386	0.0421	0.0082	0.0004	0.0003	2.0	0.077	0.015	0.00807	0.00019	6.042	0.089	**80.7**	**1.2**
2500	0.969	6.6785	0.0400	0.0513	0.0043	0.0022	0.0002	9.7	0.094	0.008	0.01162	0.00017	6.004	0.070	**80.2**	**0.9**
3000	0.971	6.3228	0.0724	0.0672	0.0508	-0.0007	0.0015	-3.2	0.123	0.093	0.01177	0.00095	6.493	0.438	**86.6**	**5.7**
4000	0.989	6.2568	0.0375	0.0405	0.0066	0.0003	0.0003	1.5	0.074	0.012	0.01229	0.00018	6.135	0.093	**81.9**	**1.2**
8500	1.000	6.2815	0.0439	0.0406	0.0082	0.0008	0.0004	3.9	0.075	0.015	0.01085	0.00025	6.012	0.120	**80.3**	**1.6**
Integrated		6.1298	0.0072	0.0541	0.0005	0.0006	0.0000	2.7	0.099	0.001	0.00602	0.00002	5.937	0.009	**79.3**	**0.3**

430-12 Emuneret suite Weighted average of J from standards = 0.007571 +/- 0.000021

Laser Power (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	0.004	15.3933	0.2292	0.0354	0.0294	0.0397	0.0016	76.3	0.065	0.054	0.03878	0.00148	3.646	0.452	**49.1**	**6.0**
250	0.015	12.2744	0.1267	0.0617	0.0122	0.0263	0.0009	63.4	0.113	0.022	0.03880	0.00054	4.483	0.266	**60.2**	**3.5**
350	0.047	10.1063	0.0340	0.0621	0.0032	0.0174	0.0004	51.1	0.114	0.006	0.03611	0.00032	4.929	0.110	**66.1**	**1.5**
500	0.144	7.7243	0.0302	0.0613	0.0026	0.0090	0.0001	34.4	0.113	0.005	0.03556	0.00026	5.049	0.039	**67.7**	**0.5**
700	0.347	6.3340	0.0184	0.0592	0.0008	0.0032	0.0001	15.1	0.109	0.002	0.03529	0.00015	5.353	0.021	**71.7**	**0.3**
900	0.641	6.1939	0.0223	0.0496	0.0007	0.0020	0.0001	9.7	0.091	0.001	0.03673	0.00010	5.566	0.026	**74.5**	**0.3**
1100	0.807	6.3812	0.0073	0.0524	0.0010	0.0023	0.0001	10.5	0.096	0.002	0.03635	0.00011	5.685	0.022	**76.0**	**0.3**
1300	0.852	6.8299	0.0118	0.0832	0.0027	0.0042	0.0002	18.3	0.153	0.005	0.03637	0.00014	5.557	0.045	**74.3**	**0.6**
1500	0.872	7.2325	0.0166	0.1334	0.0046	0.0058	0.0006	23.7	0.245	0.008	0.03597	0.00045	5.497	0.167	**73.6**	**2.2**
2000	0.900	7.3898	0.0266	0.1605	0.0051	0.0060	0.0002	24.0	0.295	0.009	0.03532	0.00040	5.595	0.073	**74.8**	**1.0**
2500	0.923	7.0661	0.0322	0.1148	0.0056	0.0049	0.0003	20.5	0.211	0.010	0.03468	0.00029	5.595	0.082	**74.9**	**1.1**
4000	0.988	7.3637	0.0242	0.1173	0.0027	0.0052	0.0001	21.0	0.215	0.005	0.03615	0.00024	5.795	0.036	**77.5**	**0.5**
8500	1.000	7.6122	0.0517	0.1337	0.0091	0.0060	0.0005	23.1	0.245	0.017	0.03531	0.00042	5.835	0.165	**78.0**	**2.2**
Integrated		6.8267	0.0086	0.0669	0.0006	0.0045	0.0000	19.5	0.123	0.001	0.03610	0.00006	5.470	0.013	**73.2**	**0.3**

430-14 Emuneret suite Weighted average of J from standards = 0.007571 +/- 0.000021

Laser Power (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	0.007	12.5236	0.1131	0.0359	0.0165	0.0260	0.0009	61.5	0.066	0.030	0.00510	0.00032	4.814	0.273	**64.6**	**3.6**
250	0.032	9.6341	0.0490	0.0672	0.0055	0.0144	0.0002	44.1	0.123	0.010	0.00553	0.00010	5.371	0.072	**71.9**	**1.0**
350	0.145	6.0403	0.0132	0.0621	0.0012	0.0019	0.0001	9.4	0.114	0.002	0.00411	0.00007	5.450	0.025	**72.9**	**0.3**
500	0.534	5.7445	0.0240	0.0526	0.0005	0.0000	0.0000	0.1	0.096	0.001	0.00221	0.00001	5.708	0.025	**76.3**	**0.3**
700	0.775	6.3236	0.0104	0.0384	0.0010	-0.0002	0.0000	-0.9	0.070	0.002	0.00184	0.00003	6.352	0.012	**84.7**	**0.2**
900	0.839	6.2373	0.0158	0.0394	0.0024	-0.0001	0.0001	-0.3	0.072	0.004	0.00451	0.00009	6.226	0.030	**83.1**	**0.4**
1100	0.861	6.1046	0.0295	0.0509	0.0062	-0.0001	0.0003	-0.5	0.093	0.011	0.00752	0.00018	6.106	0.092	**81.5**	**1.2**
1300	0.872	6.1437	0.0600	0.0727	0.0137	-0.0001	0.0008	-0.4	0.133	0.025	0.00759	0.00023	6.139	0.234	**82.0**	**3.1**
1500	0.877	6.3885	0.0445	0.1072	0.0237	0.0007	0.0013	3.3	0.197	0.044	0.00700	0.00046	6.149	0.394	**82.1**	**5.1**
2000	0.885	6.6299	0.0454	0.0990	0.0146	0.0016	0.0009	6.9	0.182	0.027	0.00525	0.00055	6.149	0.260	**82.1**	**3.4**
2500	0.908	6.5505	0.0442	0.0414	0.0038	0.0013	0.0003	6.0	0.076	0.007	0.00483	0.00020	6.131	0.108	**81.9**	**1.4**
3000	0.941	6.3406	0.0199	0.0231	0.0036	0.0006	0.0002	2.8	0.042	0.007	0.00418	0.00016	6.133	0.063	**81.9**	**0.8**
4000	0.977	6.4033	0.0271	0.0143	0.0033	0.0010	0.0002	4.6	0.026	0.006	0.00426	0.00009	6.081	0.073	**81.2**	**1.0**
8500	1.000	6.9734	0.0287	0.0362	0.0050	0.0026	0.0004	11.1	0.066	0.009	0.00528	0.00017	6.177	0.111	**82.5**	**1.5**
Integrated		6.2051	0.0101	0.0475	0.0005	0.0009	0.0000	4.2	0.087	0.001	0.00308	0.00002	5.920	0.013	**79.1**	**0.3**

430-16 Emuneret suite Weighted average of J from standards = 0.007835 +/- 0.000026

Temp. (Deg C)	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)**
400	0.014	10.7134	0.0137	0.0738	0.0014	0.0208	0.0006	57.5	0.135	0.003	0.00529	0.00014	4.543	0.161	**63.1**	**2.2**
500	0.059	5.8119	0.0062	0.0772	0.0005	0.0064	0.0002	32.3	0.142	0.001	0.00514	0.00005	3.913	0.053	**54.5**	**0.7**
550	0.145	5.3318	0.0055	0.0684	0.0002	0.0004	0.0001	2.3	0.125	0.000	0.00601	0.00002	5.179	0.027	**71.8**	**0.4**
600	0.272	5.6859	0.0059	0.0548	0.0002	0.0000	0.0001	0.0	0.101	0.000	0.00460	0.00002	5.659	0.019	**78.3**	**0.3**
650	0.456	5.7847	0.0060	0.0448	0.0001	0.0000	0.0000	-0.2	0.082	0.000	0.00246	0.00001	5.770	0.014	**79.8**	**0.2**
700	0.664	5.9385	0.0062	0.0382	0.0001	-0.0001	0.0000	-0.3	0.070	0.000	0.00177	0.00001	5.928	0.013	**81.9**	**0.2**
750	0.805	5.9870	0.0063	0.0317	0.0002	0.0000	0.0001	-0.2	0.058	0.000	0.00206	0.00001	5.972	0.018	**82.5**	**0.2**
800	0.893	5.8938	0.0063	0.0309	0.0002	-0.0002	0.0001	-0.8	0.057	0.000	0.00311	0.00002	5.911	0.027	**81.7**	**0.4**
850	0.937	5.7828	0.0064	0.0426	0.0005	-0.0003	0.0002	-1.6	0.078	0.001	0.00515	0.00005	5.846	0.052	**80.8**	**0.7**
900	0.959	5.6229	0.0070	0.0781	0.0010	-0.0008	0.0004	-4.1	0.143	0.002	0.00658	0.00009	5.825	0.109	**80.5**	**1.5**
1000	0.971	5.4281	0.0082	0.1832	0.0017	-0.0009	0.0007	-5.1	0.336	0.003	0.00551	0.00017	5.674	0.195	**78.5**	**2.6**
1200	0.987	6.4240	0.0085	0.1590	0.0013	0.0027	0.0005	12.2	0.292	0.002	0.00719	0.00013	5.617	0.145	**77.7**	**2.0**
1600	1.000	7.9718	0.0110	0.1323	0.0015	0.0088	0.0006	32.6	0.243	0.003	0.00721	0.00015	5.357	0.173	**74.2**	**2.3**
Integrated		5.9070	0.0022	0.0508	0.0001	0.0007	0.0000	3.5	0.093	0.000	0.00344	0.00001	5.674	0.009	**78.5**	**0.3**

458-C Emuneret suite Weighted average of J from standards = 0.008712 +/- 0.000023

Laser Power (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	0.006	79.8138	0.3427	1.3410	0.0252	0.2611	0.0018	96.6	2.463	0.046	0.00293	0.00058	2.747	0.521	**42.7**	**8.0**
300	0.017	34.8062	0.3479	1.1834	0.0126	0.1069	0.0011	90.6	2.173	0.023	0.00113	0.00043	3.284	0.342	**50.9**	**5.2**
450	0.039	20.8904	0.2269	1.1102	0.0137	0.0552	0.0009	77.8	2.038	0.025	0.00102	0.00017	4.630	0.312	**71.3**	**4.7**
600	0.073	18.1833	0.1462	0.9958	0.0126	0.0453	0.0004	73.2	1.828	0.023	0.00094	0.00008	4.861	0.128	**74.8**	**1.9**
700	0.116	15.6422	0.0654	1.0508	0.0067	0.0346	0.0003	64.9	1.929	0.012	0.00059	0.00006	5.484	0.116	**84.2**	**1.7**
800	0.168	16.5551	0.0771	1.3760	0.0102	0.0364	0.0005	64.4	2.527	0.019	0.00039	0.00011	5.884	0.144	**90.2**	**2.2**
900	0.278	9.5363	0.0282	1.1587	0.0062	0.0137	0.0003	41.7	2.128	0.011	0.00122	0.00004	5.552	0.076	**85.2**	**1.1**
1000	0.453	6.4280	0.0149	0.5641	0.0034	0.0031	0.0001	13.4	1.035	0.006	0.00148	0.00005	5.544	0.021	**85.1**	**0.3**
1100	0.611	6.1320	0.0154	0.6254	0.0033	0.0024	0.0001	10.7	1.148	0.006	0.00240	0.00006	5.453	0.021	**83.7**	**0.3**
1250	0.729	6.2510	0.0142	1.0460	0.0041	0.0032	0.0001	13.9	1.921	0.007	0.00264	0.00005	5.359	0.023	**82.3**	**0.4**
1500	0.821	6.4836	0.0194	1.7295	0.0087	0.0043	0.0001	17.5	3.177	0.016	0.00318	0.00008	5.329	0.042	**81.9**	**0.6**
2000	0.895	7.2534	0.0209	3.3947	0.0113	0.0076	0.0002	27.6	6.243	0.021	0.00320	0.00007	5.239	0.067	**80.5**	**1.0**
2500	0.914	8.5540	0.0356	5.5174	0.0352	0.0130	0.0006	40.3	10.160	0.065	0.00283	0.00019	5.106	0.186	**78.5**	**2.8**
3500	0.941	11.4808	0.0563	7.5323	0.0419	0.0230	0.0005	54.3	13.889	0.078	0.00276	0.00018	5.262	0.156	**80.9**	**2.3**
8500	1.000	11.5996	0.0353	8.7316	0.0278	0.0244	0.0004	56.7	16.113	0.052	0.00338	0.00006	5.041	0.108	**77.5**	**1.6**
Integrated		9.6321	0.0106	1.8815	0.0025	0.0149	0.0001	44.4	3.456	0.005	0.00207	0.00002	5.351	0.020	**82.2**	**0.4**

424-4A Ergyvamm suite Weighted average of J from standards = 0.008712 +/- 0.000023

Laser Power (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	0.188	11.8428	0.0880	0.0615	0.0004	0.0232	0.0001	57.9	0.113	0.001	0.00043	0.00002	4.976	0.092	**76.6**	**1.4**
300	0.221	5.8248	0.0279	0.0701	0.0019	0.0019	0.0001	9.5	0.129	0.004	0.00027	0.00008	5.247	0.047	**80.6**	**0.7**
450	0.267	5.6852	0.0158	0.1702	0.0027	0.0017	0.0001	8.5	0.312	0.005	0.00039	0.00007	5.174	0.036	**79.6**	**0.5**
600	0.332	5.9421	0.0176	0.0985	0.0008	0.0025	0.0001	12.3	0.181	0.002	0.00033	0.00002	5.187	0.027	**79.7**	**0.4**
700	0.383	6.0582	0.0132	0.1368	0.0016	0.0032	0.0001	15.4	0.251	0.003	0.00036	0.00006	5.102	0.036	**78.5**	**0.6**
800	0.435	6.8373	0.0185	0.1933	0.0017	0.0056	0.0002	24.2	0.355	0.003	0.00030	0.00006	5.164	0.049	**79.4**	**0.7**
900	0.487	7.0513	0.0151	0.2116	0.0010	0.0063	0.0002	26.1	0.388	0.002	0.00032	0.00006	5.190	0.047	**79.8**	**0.7**
1000	0.542	7.7356	0.0153	0.2214	0.0022	0.0086	0.0002	32.7	0.406	0.004	0.00031	0.00004	5.184	0.060	**79.7**	**0.9**
1100	0.602	6.0007	0.0113	0.1124	0.0014	0.0030	0.0002	14.9	0.206	0.003	0.00042	0.00003	5.082	0.056	**78.2**	**0.9**
1250	0.663	7.4214	0.0107	0.1593	0.0016	0.0079	0.0001	31.4	0.292	0.003	0.00100	0.00006	5.074	0.039	**78.0**	**0.6**
1500	0.722	7.4329	0.0252	0.1937	0.0016	0.0080	0.0001	31.5	0.355	0.003	0.00214	0.00006	5.071	0.044	**78.0**	**0.7**
2000	0.743	5.7371	0.0183	0.1387	0.0040	0.0020	0.0004	10.0	0.255	0.007	0.00033	0.00008	5.141	0.113	**79.0**	**1.7**
2500	0.758	5.8048	0.0278	0.1480	0.0049	0.0025	0.0006	12.5	0.272	0.009	0.00055	0.00010	5.052	0.175	**77.7**	**2.6**
3500	0.770	5.7672	0.0325	0.1547	0.0042	0.0019	0.0006	9.4	0.284	0.008	0.00032	0.00013	5.200	0.178	**79.9**	**2.7**
8500	0.778	6.5917	0.0440	0.1975	0.0049	0.0055	0.0009	24.3	0.362	0.009	0.00024	0.00016	4.968	0.268	**76.4**	**4.0**
9000	1.000	15.9661	0.1198	0.5177	0.0009	0.0371	0.0001	68.6	0.950	0.002	0.00196	0.00004	5.014	0.120	**77.1**	**1.8**
Integrated		9.6434	0.0314	0.2197	0.0004	0.0154	0.0000	47.2	0.403	0.001	0.00086	0.00001	5.080	0.033	**78.1**	**0.5**

421-2 Ergyvaam suite Weighted average of J from standards = 0.008712 +/- 0.000023

Laser Power (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	0.006	21.7470	0.1016	0.1817	0.0064	0.0568	0.0010	77.3	0.333	0.012	0.01123	0.00030	4.938	0.292	**76.0**	**4.4**
300	0.018	11.5727	0.0364	0.2113	0.0042	0.0223	0.0005	57.0	0.388	0.008	0.00434	0.00021	4.967	0.134	**76.4**	**2.0**
450	0.062	9.6135	0.0183	0.1556	0.0016	0.0135	0.0002	41.4	0.286	0.003	0.00188	0.00006	5.616	0.053	**86.2**	**0.8**
600	0.152	7.9866	0.0328	0.2938	0.0012	0.0081	0.0001	29.7	0.539	0.002	0.00080	0.00003	5.592	0.035	**85.8**	**0.5**
700	0.263	6.6495	0.0251	0.3470	0.0011	0.0035	0.0001	15.4	0.637	0.002	0.00052	0.00002	5.601	0.031	**86.0**	**0.5**
800	0.365	6.0931	0.0099	0.5201	0.0016	0.0018	0.0000	8.2	0.955	0.003	0.00046	0.00002	5.572	0.014	**85.5**	**0.2**
900	0.504	5.9355	0.0293	0.2725	0.0009	0.0018	0.0000	8.6	0.500	0.002	0.00046	0.00002	5.401	0.030	**82.9**	**0.5**
1000	0.664	5.8130	0.0650	0.1148	0.0014	0.0017	0.0000	8.3	0.211	0.003	0.00045	0.00003	5.304	0.064	**81.5**	**1.0**
1100	0.745	5.8190	0.0102	0.1052	0.0007	0.0020	0.0001	9.9	0.193	0.001	0.00059	0.00003	5.215	0.018	**80.2**	**0.3**
1250	0.783	5.8868	0.0124	0.1358	0.0012	0.0022	0.0001	10.8	0.249	0.002	0.00106	0.00004	5.227	0.037	**80.3**	**0.6**
1500	0.808	5.9174	0.0166	0.2462	0.0022	0.0026	0.0001	12.5	0.452	0.004	0.00221	0.00012	5.156	0.035	**79.3**	**0.5**
2000	0.840	6.1804	0.0165	0.3980	0.0040	0.0035	0.0001	16.1	0.731	0.007	0.00435	0.00006	5.164	0.031	**79.4**	**0.5**
2500	0.930	6.3962	0.0089	0.2978	0.0019	0.0043	0.0001	19.5	0.546	0.003	0.00396	0.00005	5.124	0.024	**78.8**	**0.4**
3500	0.969	6.1525	0.0111	0.2257	0.0017	0.0035	0.0001	16.5	0.414	0.003	0.00525	0.00014	5.116	0.034	**78.7**	**0.5**
8500	1.000	6.0216	0.0182	0.0942	0.0015	0.0032	0.0001	15.9	0.173	0.003	0.00161	0.00005	5.042	0.032	**77.6**	**0.5**
Integrated		6.5698	0.0124	0.2554	0.0005	0.0041	0.0000	18.1	0.469	0.001	0.00141	0.00001	5.361	0.013	**82.4**	**0.3**

461-3 Ergyvaam suite Weighted average of J from standards = 0.007571 +/- 0.000021

Laser Power (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)**
100	0.001	9.8586	0.3797	0.3759	0.3918	0.0512	0.0165	153.5	0.690	0.719	0.00414	0.00495	-5.262	4.863	**-73.3**	**69.2**
200	0.019	10.0129	0.0681	0.2269	0.0133	0.0240	0.0012	70.7	0.416	0.024	0.00151	0.00028	2.921	0.348	**39.5**	**4.7**
300	0.065	12.6174	0.0510	0.2205	0.0080	0.0237	0.0005	55.4	0.405	0.015	0.00133	0.00014	5.618	0.140	**75.1**	**1.8**
400	0.151	15.9905	0.0536	0.2072	0.0079	0.0285	0.0004	52.6	0.380	0.015	0.00114	0.00007	7.563	0.124	**100.5**	**1.6**
500	0.307	12.9098	0.0359	0.1651	0.0031	0.0151	0.0001	34.6	0.303	0.006	0.00061	0.00005	8.420	0.043	**111.5**	**0.6**
600	0.483	9.4655	0.0282	0.1712	0.0022	0.0035	0.0001	10.9	0.314	0.004	0.00024	0.00004	8.407	0.032	**111.3**	**0.4**
750	0.682	7.5157	0.0183	0.1993	0.0038	0.0004	0.0001	1.5	0.366	0.007	0.00023	0.00003	7.375	0.036	**98.0**	**0.5**
900	0.838	6.7212	0.0198	0.3446	0.0064	0.0002	0.0001	0.5	0.632	0.012	0.00012	0.00003	6.657	0.030	**88.7**	**0.4**
1100	0.904	6.7860	0.0388	0.6789	0.0109	0.0008	0.0002	2.6	1.246	0.020	0.00015	0.00010	6.581	0.068	**87.7**	**0.9**
1300	0.935	6.7575	0.0492	1.3989	0.0302	0.0011	0.0005	3.1	2.569	0.055	0.00037	0.00017	6.527	0.145	**87.0**	**1.9**
1500	0.951	6.5202	0.0556	2.7595	0.0325	0.0017	0.0011	4.4	5.072	0.060	0.00019	0.00033	6.220	0.324	**83.0**	**4.2**
2000	0.964	5.7887	0.0523	5.4648	0.0821	0.0031	0.0014	8.9	10.063	0.152	0.00307	0.00028	5.268	0.429	**70.6**	**5.6**
2500	0.973	5.4870	0.0670	8.2412	0.1187	0.0056	0.0019	18.9	15.203	0.220	0.01319	0.00093	4.453	0.559	**59.8**	**7.4**
3000	0.979	10.6970	0.1201	18.1942	0.2058	0.0226	0.0026	49.9	33.784	0.387	0.03346	0.00099	5.414	0.762	**72.5**	**10.0**
4000	0.986	5.8987	0.0535	17.5595	0.2419	0.0084	0.0025	19.9	32.592	0.454	0.10796	0.00239	4.756	0.738	**63.8**	**9.7**
8500	1.000	5.9049	0.0600	10.4784	0.1062	0.0033	0.0014	3.4	19.359	0.198	0.01889	0.00059	5.714	0.410	**76.4**	**5.4**
Integrated		9.4411	0.0109	0.8427	0.0030	0.0076	0.0001	23.0	1.547	0.006	0.00180	0.00003	7.248	0.024	**96.4**	**0.4**

461-8 Ergyvaam suite Weighted average of J from standards = 0.007571 +/- 0.000021

Laser Power (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	0.001	64.6402	5.7114	0.9609	1.6893	0.2586	0.0694	118.1	1.764	3.104	0.00387	0.01411	-11.729	19.425	**-167.8**	**291.2**
250	0.025	63.0207	0.4162	0.5190	0.0665	0.2103	0.0044	98.6	0.953	0.122	0.00164	0.00043	0.876	1.238	**11.9**	**16.8**
350	0.069	63.3666	0.4112	0.5586	0.0532	0.2060	0.0036	96.0	1.025	0.098	0.00172	0.00035	2.524	1.006	**34.1**	**13.5**
500	0.164	65.2679	0.3127	0.4396	0.0167	0.2063	0.0027	93.4	0.807	0.031	0.00157	0.00031	4.327	0.771	**58.1**	**10.2**
700	0.305	46.3582	0.2109	0.2598	0.0115	0.1352	0.0016	86.2	0.477	0.021	0.00125	0.00013	6.413	0.457	**85.5**	**6.0**
900	0.449	19.8158	0.0506	0.1449	0.0122	0.0427	0.0016	63.7	0.266	0.022	0.00149	0.00016	7.191	0.460	**95.6**	**6.0**
1100	0.657	8.4961	0.0377	0.1611	0.0070	0.0056	0.0004	19.5	0.296	0.013	0.00166	0.00008	6.815	0.128	**90.8**	**1.7**
1300	0.822	9.1818	0.0355	0.3454	0.0119	0.0073	0.0009	23.2	0.634	0.022	0.00127	0.00016	7.034	0.265	**93.6**	**3.4**
1500	0.894	7.3417	0.0467	0.4712	0.0177	0.0020	0.0013	7.4	0.865	0.032	0.00168	0.00038	6.774	0.392	**90.2**	**5.1**
2000	0.958	7.2137	0.0352	0.4071	0.0186	0.0043	0.0014	17.3	0.747	0.034	0.00290	0.00026	5.945	0.413	**79.4**	**5.4**
2500	0.974	6.6519	0.1338	0.3821	0.0722	0.0001	0.0059	0.1	0.701	0.133	0.00042	0.00075	6.618	1.748	**88.2**	**22.7**
8500	1.000	6.8511	0.0638	0.5774	0.0483	0.0050	0.0032	21.2	1.060	0.089	0.00310	0.00091	5.381	0.935	**72.0**	**12.3**
Integrated		24.5114	0.0396	0.3088	0.0057	0.0621	0.0005	74.9	0.567	0.011	0.00161	0.00007	6.159	0.151	**82.2**	**2.0**

410-3 Koekvun' suite Weighted average of J from standards = 0.007835 +/- 0.000026

Temp. (Deg C)	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)**
400	0.009	6.0507	0.0086	0.0335	0.0020	0.0050	0.0007	24.7	0.062	0.004	0.00539	0.00018	4.537	0.213	**63.0**	**2.9**
500	0.048	6.6132	0.0069	0.0305	0.0005	0.0019	0.0002	8.5	0.056	0.001	0.00294	0.00004	6.026	0.050	**83.2**	**0.7**
550	0.129	6.1534	0.0063	0.0260	0.0002	0.0008	0.0001	3.6	0.048	0.000	0.00095	0.00002	5.906	0.025	**81.6**	**0.3**
600	0.285	6.2098	0.0064	0.0253	0.0001	0.0003	0.0000	1.5	0.046	0.000	0.00045	0.00001	6.089	0.014	**84.1**	**0.2**
650	0.502	6.1136	0.0063	0.0482	0.0001	0.0002	0.0000	1.0	0.088	0.000	0.00033	0.00001	6.023	0.011	**83.2**	**0.2**
700	0.649	6.1335	0.0064	0.1443	0.0002	0.0003	0.0000	1.4	0.265	0.000	0.00032	0.00001	6.021	0.015	**83.2**	**0.2**
750	0.703	6.2470	0.0067	0.4615	0.0005	0.0008	0.0001	3.4	0.847	0.001	0.00043	0.00003	6.007	0.037	**83.0**	**0.5**
800	0.760	6.2900	0.0066	0.6015	0.0006	0.0009	0.0001	3.7	1.104	0.001	0.00062	0.00003	6.032	0.034	**83.3**	**0.5**
850	0.806	6.2069	0.0066	0.2582	0.0005	0.0006	0.0001	2.7	0.474	0.001	0.00076	0.00004	6.012	0.043	**83.0**	**0.6**
900	0.832	6.2954	0.0070	0.0616	0.0007	0.0013	0.0003	6.0	0.113	0.001	0.00069	0.00006	5.892	0.073	**81.4**	**1.0**
1000	0.864	6.2062	0.0068	0.0840	0.0006	0.0023	0.0002	10.9	0.154	0.001	0.00076	0.00005	5.506	0.061	**76.2**	**0.8**
1200	0.936	5.6816	0.0060	0.0800	0.0003	0.0024	0.0001	12.5	0.147	0.000	0.00098	0.00002	4.949	0.028	**68.6**	**0.4**
1600	1.000	6.4297	0.0068	0.0921	0.0003	0.0049	0.0001	22.6	0.169	0.001	0.00150	0.00003	4.952	0.031	**68.7**	**0.4**
Integrated		6.1725	0.0022	0.1262	0.0001	0.0011	0.0000	4.9	0.232	0.000	0.00073	0.00001	5.844	0.007	**80.8**	**0.3**

416-16 Koekvun' suite Weighted average of J from standards = 0.008712 +/- 0.000023

Laser Power (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	0.008	22.6188	0.2258	0.6864	0.0138	0.0495	0.0021	64.6	1.260	0.025	0.00085	0.00054	8.006	0.625	**121.6**	**9.2**
300	0.060	33.7651	0.1105	0.6843	0.0084	0.0778	0.0008	68.0	1.256	0.015	0.00027	0.00012	10.802	0.215	**162.3**	**3.1**
450	0.153	24.9099	0.1127	0.5930	0.0030	0.0522	0.0004	61.8	1.088	0.005	-0.00001	0.00007	9.516	0.120	**143.7**	**1.7**
600	0.270	19.0202	0.0744	0.6218	0.0030	0.0369	0.0003	57.2	1.141	0.006	0.00020	0.00007	8.130	0.098	**123.5**	**1.4**
700	0.392	13.1219	0.0268	0.7634	0.0048	0.0210	0.0002	46.9	1.401	0.009	0.00034	0.00007	6.957	0.066	**106.2**	**1.0**
800	0.525	10.2433	0.0188	1.1521	0.0043	0.0134	0.0001	37.9	2.115	0.008	0.00053	0.00002	6.346	0.044	**97.1**	**0.7**
900	0.657	7.7538	0.0129	1.5541	0.0049	0.0072	0.0001	26.0	2.854	0.009	0.00060	0.00008	5.720	0.033	**87.7**	**0.5**
1000	0.752	6.5522	0.0187	1.7241	0.0053	0.0054	0.0002	22.5	3.167	0.010	0.00084	0.00008	5.061	0.055	**77.8**	**0.8**
1100	0.813	5.9745	0.0208	1.8320	0.0080	0.0037	0.0002	16.2	3.366	0.015	0.00083	0.00005	4.987	0.067	**76.7**	**1.0**
1250	0.860	5.6614	0.0320	1.8387	0.0149	0.0027	0.0004	11.7	3.378	0.027	0.00096	0.00015	4.981	0.129	**76.6**	**2.0**
1500	0.894	5.3214	0.0289	1.9298	0.0153	0.0026	0.0005	12.0	3.545	0.028	0.00113	0.00013	4.665	0.136	**71.9**	**2.1**
2000	0.955	5.2448	0.0235	2.3650	0.0108	0.0038	0.0002	18.2	4.346	0.020	0.00177	0.00006	4.275	0.058	**66.0**	**0.9**
2500	0.974	3.8994	0.0212	2.5480	0.0206	-0.0006	0.0006	-9.7	4.683	0.038	0.00149	0.00018	4.255	0.180	**65.7**	**2.7**
3500	0.985	3.4885	0.0351	3.4239	0.0358	-0.0011	0.0011	-16.8	6.296	0.066	0.00164	0.00022	4.050	0.314	**62.6**	**4.8**
8500	1.000	4.0617	0.0252	4.2580	0.0308	0.0004	0.0007	-5.0	7.835	0.057	0.00168	0.00033	4.248	0.214	**65.6**	**3.2**
Integrated		12.3810	0.0129	1.3423	0.0019	0.0200	0.0001	47.1	2.465	0.003	0.00063	0.00002	6.536	0.026	**99.9**	**0.5**

406-1 Voron'in suite Weighted average of J from standards = 0.008712 +/- 0.000023

Laser Power (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)**
100	0.002	11.5710	0.1058	0.3609	0.0176	0.0314	0.0029	80.0	0.662	0.032	0.00058	0.00085	2.304	0.847	**35.9**	**13.1**
200	0.014	10.8004	0.1020	0.3708	0.0107	0.0190	0.0007	51.8	0.681	0.020	0.00168	0.00026	5.194	0.219	**79.8**	**3.3**
300	0.035	9.5066	0.0361	0.3384	0.0041	0.0100	0.0004	30.7	0.621	0.007	0.00070	0.00013	6.566	0.109	**100.4**	**1.6**
500	0.081	9.0449	0.0268	0.3431	0.0020	0.0076	0.0002	24.7	0.630	0.004	0.00042	0.00006	6.790	0.064	**103.7**	**1.0**
700	0.161	8.2567	0.0329	0.3228	0.0040	0.0056	0.0001	19.8	0.592	0.007	0.00020	0.00006	6.603	0.050	**100.9**	**0.8**
900	0.262	7.9222	0.0420	0.3856	0.0029	0.0048	0.0001	17.5	0.708	0.005	0.00034	0.00003	6.511	0.046	**99.5**	**0.7**
1100	0.412	7.6177	0.0278	0.4258	0.0028	0.0036	0.0001	13.8	0.782	0.005	0.00033	0.00003	6.547	0.033	**100.1**	**0.5**
1300	0.617	6.7231	0.0490	0.8242	0.0023	0.0025	0.0001	10.0	1.513	0.004	0.00105	0.00003	6.028	0.051	**92.3**	**0.8**
1500	0.739	6.0904	0.0193	2.8017	0.0098	0.0032	0.0001	12.3	5.150	0.018	0.01176	0.00006	5.326	0.030	**81.8**	**0.4**
2000	0.846	6.2344	0.0293	4.0176	0.0187	0.0048	0.0001	18.1	7.391	0.035	0.01653	0.00008	5.097	0.038	**78.4**	**0.6**
2500	0.915	6.3894	0.0228	4.2622	0.0140	0.0059	0.0001	22.3	7.842	0.026	0.01059	0.00015	4.958	0.035	**76.3**	**0.5**
3500	0.955	6.5106	0.0148	5.4856	0.0118	0.0064	0.0002	22.9	10.101	0.022	0.00872	0.00016	5.015	0.072	**77.2**	**1.1**
8500	1.000	6.1708	0.0163	4.7292	0.0139	0.0055	0.0001	20.8	8.704	0.026	0.00364	0.00016	4.881	0.043	**75.1**	**0.7**
Integrated		7.1382	0.0129	1.8247	0.0023	0.0047	0.0000	17.4	3.352	0.004	0.00482	0.00002	5.878	0.016	**90.1**	**0.3**

406-2A Voron'in suite Weighted average of J from standards = 0.008712 +/- 0.000023

Laser Power (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)**
100	0.006	15.1554	0.0621	0.3910	0.0059	0.0399	0.0010	77.7	0.718	0.011	0.01104	0.00051	3.372	0.300	**52.2**	**4.6**
200	0.034	11.9349	0.1334	0.3296	0.0047	0.0235	0.0004	58.0	0.605	0.009	0.00596	0.00017	5.001	0.126	**76.9**	**1.9**
300	0.080	9.0531	0.0578	0.3045	0.0022	0.0112	0.0002	36.4	0.559	0.004	0.00306	0.00015	5.737	0.074	**88.0**	**1.1**
500	0.218	7.6044	0.0153	0.2392	0.0013	0.0053	0.0001	20.4	0.439	0.002	0.00140	0.00004	6.035	0.032	**92.4**	**0.5**
700	0.372	7.1446	0.0149	0.3272	0.0016	0.0037	0.0001	15.0	0.601	0.003	0.00116	0.00002	6.049	0.029	**92.7**	**0.4**
900	0.563	6.8293	0.0193	0.4558	0.0016	0.0024	0.0001	9.7	0.837	0.003	0.00075	0.00003	6.141	0.024	**94.0**	**0.4**
1100	0.721	6.5282	0.0122	0.9531	0.0028	0.0020	0.0000	8.1	1.750	0.005	0.00356	0.00007	5.974	0.017	**91.5**	**0.3**
1300	0.824	6.5047	0.0302	2.1818	0.0097	0.0032	0.0001	11.9	4.009	0.018	0.01433	0.00009	5.712	0.033	**87.6**	**0.5**
1500	0.879	6.6006	0.0213	2.2882	0.0090	0.0041	0.0001	15.7	4.205	0.017	0.01698	0.00016	5.546	0.030	**85.1**	**0.5**
2000	0.926	8.1297	0.0598	4.4105	0.0290	0.0104	0.0003	33.7	8.116	0.053	0.04160	0.00034	5.390	0.086	**82.8**	**1.3**
2500	0.956	9.6648	0.0380	5.6714	0.0253	0.0160	0.0003	44.6	10.445	0.047	0.03577	0.00032	5.360	0.085	**82.3**	**1.3**
3500	0.977	9.8634	0.0554	5.4188	0.0293	0.0175	0.0005	48.5	9.978	0.054	0.01897	0.00028	5.083	0.146	**78.2**	**2.2**
8500	1.000	9.6889	0.0521	5.9093	0.0323	0.0163	0.0005	45.2	10.885	0.060	0.00865	0.00020	5.317	0.161	**81.7**	**2.4**
Integrated		7.4615	0.0082	1.3265	0.0017	0.0057	0.0000	21.5	2.436	0.003	0.00748	0.00003	5.842	0.012	**89.6**	**0.3**

406-3A Voron'in suite Weighted average of J from standards = 0.008712 +/- 0.000023

Laser Power (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)**
100	0.009	68.0183	0.3274	0.2026	0.0049	0.2172	0.0021	94.4	0.372	0.009	0.00060	0.00050	3.825	0.564	**59.1**	**8.6**
200	0.038	25.9037	0.1569	0.2501	0.0029	0.0711	0.0006	81.1	0.459	0.005	0.00054	0.00013	4.896	0.152	**75.4**	**2.3**
300	0.113	9.0399	0.0273	0.1546	0.0011	0.0121	0.0002	39.6	0.284	0.002	0.00040	0.00006	5.440	0.047	**83.5**	**0.7**
500	0.362	6.8442	0.0320	0.1000	0.0006	0.0032	0.0000	13.7	0.183	0.001	0.00030	0.00002	5.884	0.034	**90.2**	**0.5**
700	0.654	6.4829	0.0304	0.1387	0.0003	0.0021	0.0000	9.4	0.254	0.000	0.00054	0.00001	5.850	0.031	**89.7**	**0.5**
900	0.794	5.9182	0.0221	0.3057	0.0016	0.0012	0.0001	5.8	0.561	0.003	0.00192	0.00004	5.550	0.026	**85.2**	**0.4**
1100	0.851	5.8776	0.0138	1.7809	0.0064	0.0019	0.0001	7.1	3.271	0.012	0.01949	0.00010	5.439	0.030	**83.5**	**0.4**
1300	0.880	5.7679	0.0225	1.3234	0.0060	0.0019	0.0002	8.0	2.430	0.011	0.01272	0.00010	5.287	0.053	**81.2**	**0.8**
1500	0.902	5.6415	0.0170	1.7289	0.0111	0.0025	0.0002	10.9	3.176	0.020	0.01981	0.00016	5.005	0.069	**77.0**	**1.1**
2000	0.927	5.6753	0.0256	3.3414	0.0146	0.0045	0.0002	19.3	6.144	0.027	0.02031	0.00017	4.565	0.060	**70.4**	**0.9**
2500	0.939	5.6573	0.0275	2.2384	0.0197	0.0049	0.0004	22.9	4.113	0.036	0.00522	0.00024	4.347	0.116	**67.1**	**1.8**
3500	0.955	5.6438	0.0248	1.6674	0.0118	0.0045	0.0003	21.2	3.063	0.022	0.00466	0.00016	4.427	0.100	**68.3**	**1.5**
8500	1.000	5.0583	0.0139	1.0062	0.0046	0.0025	0.0001	13.2	1.847	0.008	0.00579	0.00012	4.370	0.029	**67.4**	**0.4**
Integrated		7.6130	0.0131	0.4889	0.0007	0.0070	0.0000	26.9	0.897	0.001	0.00337	0.00001	5.542	0.015	**85.1**	**0.3**

406-4 Voron'in suite Weighted average of J from standards = 0.007835 +/- 0.000026

Temp. (Deg C)	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)**
400	0.005	11.3697	0.0350	0.2137	0.0063	0.0213	0.0022	55.3	0.392	0.012	0.00183	0.00055	5.071	0.645	**70.3**	**8.8**
500	0.015	12.4365	0.0204	0.2602	0.0028	0.0209	0.0010	49.5	0.478	0.005	0.00095	0.00024	6.267	0.281	**86.5**	**3.8**
550	0.037	11.0352	0.0132	0.2508	0.0013	0.0157	0.0004	42.1	0.460	0.002	0.00071	0.00011	6.377	0.131	**88.0**	**1.8**
600	0.092	8.6987	0.0092	0.1772	0.0006	0.0055	0.0002	18.6	0.325	0.001	0.00048	0.00005	7.058	0.054	**97.1**	**0.7**
650	0.165	7.7711	0.0082	0.1506	0.0004	0.0016	0.0001	5.8	0.276	0.001	0.00034	0.00003	7.294	0.041	**100.3**	**0.6**
700	0.273	7.3912	0.0077	0.1369	0.0003	0.0006	0.0001	2.4	0.251	0.001	0.00024	0.00002	7.189	0.028	**98.9**	**0.4**
750	0.412	6.9594	0.0072	0.1612	0.0003	0.0004	0.0001	1.3	0.296	0.000	0.00028	0.00002	6.838	0.022	**94.2**	**0.3**
800	0.486	6.5649	0.0070	0.3777	0.0005	0.0004	0.0001	1.1	0.693	0.001	0.00058	0.00003	6.463	0.040	**89.1**	**0.5**
850	0.525	6.4212	0.0073	0.9292	0.0012	0.0007	0.0003	2.3	1.706	0.002	0.00121	0.00006	6.250	0.076	**86.3**	**1.0**
900	0.562	6.3453	0.0072	1.2892	0.0015	0.0006	0.0003	1.1	2.367	0.003	0.00203	0.00007	6.250	0.080	**86.3**	**1.1**
1000	0.628	6.2021	0.0066	0.9599	0.0010	0.0007	0.0002	2.2	1.762	0.002	0.00209	0.00004	6.042	0.044	**83.5**	**0.6**
1200	0.760	5.7639	0.0059	1.2829	0.0012	0.0012	0.0001	4.3	2.356	0.002	0.00911	0.00002	5.495	0.023	**76.0**	**0.3**
1600	1.000	6.1666	0.0064	0.8970	0.0008	0.0018	0.0000	7.7	1.647	0.002	0.00422	0.00001	5.669	0.014	**78.4**	**0.2**
Integrated		6.8579	0.0025	0.6265	0.0003	0.0019	0.0000	7.6	1.150	0.000	0.00266	0.00001	6.315	0.011	**87.1**	**0.3**

407-2 Pykarvaam suite Weighted average of J from standards = 0.008294 +/- 0.000023

Temp. (Deg C)	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	0.139	6.8070	0.0068	0.0845	0.0003	0.0045	0.0001	19.6	0.155	0.000	0.00103	0.00002	5.450	0.024	**79.8**	**0.3**
600	0.233	6.3878	0.0065	0.0654	0.0004	0.0008	0.0001	3.4	0.120	0.001	0.00042	0.00003	6.141	0.035	**89.6**	**0.5**
650	0.419	6.3834	0.0065	0.0684	0.0002	0.0006	0.0001	2.7	0.125	0.000	0.00029	0.00001	6.184	0.018	**90.2**	**0.3**
700	0.623	6.2665	0.0064	0.1239	0.0002	0.0007	0.0001	3.2	0.227	0.000	0.00019	0.00001	6.036	0.017	**88.1**	**0.2**
725	0.712	6.0611	0.0063	0.3807	0.0005	0.0009	0.0001	4.1	0.699	0.001	0.00019	0.00003	5.785	0.037	**84.6**	**0.5**
750	0.756	5.9133	0.0066	0.6087	0.0010	0.0014	0.0002	6.0	1.117	0.002	0.00028	0.00006	5.532	0.072	**80.9**	**1.0**
775	0.783	5.6430	0.0068	0.3004	0.0014	0.0007	0.0004	3.5	0.551	0.003	0.00041	0.00010	5.421	0.120	**79.4**	**1.7**
825	0.806	5.4497	0.0067	0.1514	0.0015	0.0011	0.0005	5.8	0.278	0.003	0.00052	0.00012	5.107	0.135	**74.9**	**1.9**
900	0.830	5.2937	0.0065	0.2118	0.0015	0.0012	0.0005	6.6	0.389	0.003	0.00058	0.00012	4.916	0.136	**72.1**	**2.0**
1000	0.858	5.1464	0.0060	0.3017	0.0013	0.0019	0.0004	10.5	0.554	0.002	0.00076	0.00010	4.582	0.114	**67.3**	**1.6**
1100	0.885	4.5715	0.0054	0.2610	0.0013	0.0024	0.0004	15.1	0.479	0.002	0.00168	0.00010	3.855	0.116	**56.8**	**1.7**
1200	0.927	6.0868	0.0066	0.3230	0.0009	0.0054	0.0003	25.8	0.593	0.002	0.00209	0.00007	4.499	0.078	**66.1**	**1.1**
1600	1.000	8.3457	0.0087	0.2779	0.0006	0.0119	0.0002	41.8	0.510	0.001	0.00279	0.00004	4.837	0.044	**71.0**	**0.6**
Integrated		6.3496	0.0023	0.1825	0.0001	0.0024	0.0000	10.9	0.335	0.000	0.00070	0.00001	5.630	0.012	**82.3**	**0.3**

405-8 Pykarvaam suite Weighted average of J from standards = 0.007835 +/- 0.000026

Temp. (Deg C)	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)**
400	0.006	12.2977	0.0255	0.1446	0.0032	0.0204	0.0013	49.2	0.265	0.006	0.00176	0.00033	6.239	0.384	**86.1**	**5.2**
500	0.029	8.8961	0.0104	0.1200	0.0009	0.0049	0.0004	16.2	0.220	0.002	0.00089	0.00009	7.430	0.107	**102.1**	**1.4**
550	0.076	6.8106	0.0073	0.0942	0.0004	0.0005	0.0002	2.2	0.173	0.001	0.00054	0.00004	6.632	0.051	**91.4**	**0.7**
600	0.147	6.4901	0.0068	0.0866	0.0003	-0.0001	0.0001	-0.5	0.159	0.001	0.00041	0.00003	6.493	0.034	**89.5**	**0.5**
650	0.256	6.4885	0.0067	0.0946	0.0002	-0.0001	0.0001	-0.6	0.174	0.000	0.00032	0.00002	6.498	0.023	**89.6**	**0.3**
700	0.384	6.4403	0.0067	0.1193	0.0002	0.0001	0.0001	0.2	0.219	0.000	0.00032	0.00002	6.402	0.020	**88.3**	**0.3**
750	0.520	6.1734	0.0064	0.1399	0.0002	-0.0001	0.0001	-0.7	0.257	0.000	0.00045	0.00002	6.189	0.019	**85.4**	**0.3**
800	0.629	5.9508	0.0063	0.1618	0.0002	-0.0004	0.0001	-2.1	0.297	0.000	0.00080	0.00002	6.046	0.023	**83.5**	**0.3**
850	0.691	5.7351	0.0062	0.2155	0.0004	-0.0008	0.0001	-4.4	0.396	0.001	0.00185	0.00003	5.960	0.039	**82.3**	**0.5**
900	0.740	5.6272	0.0062	0.3139	0.0005	-0.0008	0.0002	-4.8	0.576	0.001	0.00314	0.00004	5.868	0.049	**81.1**	**0.7**
1000	0.800	5.6866	0.0062	0.2975	0.0004	-0.0001	0.0001	-0.8	0.546	0.001	0.00387	0.00004	5.702	0.040	**78.9**	**0.5**
1200	0.885	5.7826	0.0062	0.3389	0.0004	0.0003	0.0001	1.0	0.622	0.001	0.00579	0.00003	5.695	0.029	**78.8**	**0.4**
1600	1.000	6.4077	0.0067	0.4882	0.0005	0.0033	0.0001	14.7	0.896	0.001	0.00758	0.00002	5.443	0.022	**75.3**	**0.3**
Integrated		6.2802	0.0021	0.2081	0.0001	0.0005	0.0000	2.2	0.382	0.000	0.00217	0.00001	6.118	0.009	**84.5**	**0.3**

All errors quoted at 1-sigma
Measured isotopic ratios are corrected for ^{37}Ar and ^{39}Ar decay.
Ca/K is calculated from the ^{37}Ar from calcium to ^{39}Ar (from potassium) ratio.
Cl/K is calculated from the ^{38}Ar from chlorine to ^{39}Ar (from potassium) ratio.
Constants used in the calculation: $[^{40}Ar/^{39}Ar]_K = 0.0287$; $[^{39}Ar/^{37}Ar]_{Ca} = 6.51 \times 10^{-4}$; $[^{36}Ar/^{37}Ar]_{Ca} = 2.54 \times 10^{-4}$;