

Incremental Heating		36Ar(a) [fA]	37Ar(ca) [fA]	38Ar(cl) [fA]	39Ar(k) [fA]	40Ar(r) [fA]	Age ± 2σ (Ma)	40Ar(r) (%)	39Ar(k) (%)	K/Ca ± 2σ
14D01140	1.8 %	0.4435177	23.5589	1.247285	31.2994	58.4463	5.42 ± 0.12	30.84	1.75	0.571 ± 0.112
14D01142	2.0 %	0.3498651	29.2178	1.503380	41.3651	77.3488	5.43 ± 0.08	42.79	2.31	0.609 ± 0.099
14D01143	2.2 %	0.2060440	15.2343	1.134712	31.6210	58.6946	5.39 ± 0.09	49.07	1.77	0.893 ± 0.285
14D01144	2.4 %	0.2676350	29.7596	1.584428	46.9764	85.0962	5.26 ± 0.06	51.82	2.63	0.679 ± 0.110
14D01146	2.7 %	0.1926760	28.2187	1.253426	39.5852	71.1798	5.22 ± 0.07	55.54	2.21	0.603 ± 0.111
14D01147	3.0 %	0.2915475	43.1018	1.968817	64.2635	113.0154	5.11 ± 0.05	56.73	3.59	0.641 ± 0.075
14D01148	3.3 %	0.3053515	53.4590	2.188695	73.4892	126.0129	4.98 ± 0.04	58.25	4.11	0.591 ± 0.051
14D01150	3.6 %	0.3050465	59.1846	2.205868	77.5469	130.4326	4.89 ± 0.04	59.11	4.34	0.563 ± 0.047
14D01151	3.9 %	✓ 0.3068118	62.4070	2.191175	81.5359	135.9923	4.84 ± 0.04	59.98	4.56	0.562 ± 0.046
14D01152	4.2 %	✓ 0.1874056	40.4778	1.301044	48.7678	81.0016	4.82 ± 0.05	59.37	2.73	0.518 ± 0.063
14D01154	4.5 %	✓ 0.2240485	54.6222	1.560433	61.2117	101.3508	4.81 ± 0.05	60.46	3.42	0.482 ± 0.042
14D01155	4.8 %	✓ 0.2441652	62.7419	1.576112	67.1042	110.8819	4.80 ± 0.04	60.56	3.75	0.460 ± 0.038
14D01156	5.1 %	✓ 0.2090616	57.4880	1.336062	57.2359	94.8509	4.81 ± 0.05	60.54	3.20	0.428 ± 0.039
14D01158	5.4 %	✓ 0.2452503	83.0433	1.571162	69.2584	114.9229	4.82 ± 0.04	61.30	3.87	0.359 ± 0.022
14D01159	5.7 %	✓ 0.2005107	64.2361	1.161451	54.2962	89.3105	4.78 ± 0.05	60.09	3.04	0.363 ± 0.028
14D01160	6.1 %	✓ 0.2309939	86.8050	1.383425	64.3209	105.3596	4.76 ± 0.05	60.66	3.60	0.319 ± 0.018
14D01162	6.5 %	✓ 0.2065074	87.2630	1.260994	56.9526	93.7650	4.78 ± 0.05	60.55	3.18	0.281 ± 0.016
14D01163	6.9 %	✓ 0.2175773	99.4321	1.225769	59.4658	97.8230	4.78 ± 0.05	60.32	3.33	0.257 ± 0.014
14D01164	7.3 %	0.2266607	112.0814	1.236820	62.0743	99.9963	4.68 ± 0.05	59.86	3.47	0.238 ± 0.011
14D01166	7.8 %	0.2057046	111.0216	1.130279	57.6100	93.1558	4.70 ± 0.05	60.49	3.22	0.223 ± 0.011
14D01167	8.3 %	0.2216622	130.8950	1.210636	62.6329	100.4161	4.66 ± 0.05	60.50	3.50	0.206 ± 0.009
14D01168	8.8 %	0.2048530	119.5307	1.038093	56.4328	89.8619	4.63 ± 0.05	59.73	3.16	0.203 ± 0.009
14D01170	9.3 %	0.2209131	122.6765	0.911967	54.1850	84.7551	4.54 ± 0.05	56.47	3.03	0.190 ± 0.008
14D01171	9.9 %	0.1815920	114.8074	0.847326	49.1986	75.0335	4.43 ± 0.06	58.28	2.75	0.184 ± 0.008
14D01172	10.5 %	0.1731335	116.8456	0.847135	46.8235	69.8564	4.33 ± 0.06	57.70	2.62	0.172 ± 0.008
14D01174	11.2 %	0.1556410	116.7359	0.766488	44.4269	64.6535	4.23 ± 0.06	58.41	2.48	0.164 ± 0.007
14D01175	11.9 %	0.1603275	112.1305	0.710561	40.7949	57.4514	4.09 ± 0.06	54.78	2.28	0.156 ± 0.007
14D01176	12.8 %	0.1358789	107.1298	0.550212	38.3817	50.6129	3.83 ± 0.06	55.74	2.15	0.154 ± 0.007
14D01178	13.9 %	0.1229676	113.7811	0.603498	38.9946	46.4697	3.46 ± 0.06	56.09	2.18	0.147 ± 0.007
14D01179	15.2 %	0.1111709	117.5856	0.565637	37.2798	40.3801	3.15 ± 0.06	55.11	2.08	0.136 ± 0.006
14D01180	16.7 %	0.1008732	123.4690	0.524882	37.3950	37.5469	2.92 ± 0.06	55.71	2.09	0.130 ± 0.006
14D01182	18.2 %	0.1609084	142.9683	0.593972	39.4991	38.1848	2.81 ± 0.07	44.52	2.21	0.119 ± 0.004
14D01183	19.7 %	0.1760672	172.3699	0.786825	45.6003	45.6439	2.91 ± 0.06	46.71	2.55	0.114 ± 0.004
14D01185	21.2 %	0.2286783	200.4417	0.874022	50.7431	51.8047	2.97 ± 0.06	43.38	2.84	0.109 ± 0.003
Σ		7.4210475	3014.7209	40.852592	1788.3688	2791.3082				

Information on Analysis	Results	40(r)/39(k) ± 2σ	Age ± 2σ (Ma)	MSWD	39Ar(k) (%),n	K/Ca ± 2σ
Sample = CANARY ISLANDS 2 Material = Groundmass Location = Grand Canaria, Tamaraceite Analyst = Dan Miggins Project = CANARY ISLANDS MECO (1) Mass Discrimination Law = LIN Irradiation = 13-OSU-05 J = 0.00160830 ± 0.00000405 FCT-NM = 28.201 ± 0.023 Ma	Age Plateau	1.65346 ± 0.00603 ± 0.36%	4.80 ± 0.03 ± 0.62%	1.43 17%	34.68 10	0.324 ± 0.051
			Full External Error ± 0.11 Analytical Error ± 0.02	1.94 1.1962	2σ Confidence Limit Error Magnification	
	Total Fusion Age	1.56081 ± 0.00320 ± 0.21%	4.53 ± 0.02 ± 0.54%		34	0.255 ± 0.003
			Full External Error ± 0.11 Analytical Error ± 0.01			

Normal Isochron		39(k)/36(a) ± 2σ	40(a+r)/36(a) ± 2σ	r.i.
14D01140	1.8 %	70.57 ± 0.70	427.28 ± 4.11	0.9640
14D01142	2.0 %	118.23 ± 1.27	516.58 ± 5.44	0.9719
14D01143	2.2 %	153.47 ± 2.31	580.36 ± 8.62	0.9769
14D01144	2.4 %	175.52 ± 2.19	613.46 ± 7.56	0.9800
14D01146	2.7 %	205.45 ± 3.19	664.93 ± 10.23	0.9823
14D01147	3.0 %	220.42 ± 2.79	683.14 ± 8.57	0.9870
14D01148	3.3 %	240.67 ± 2.91	708.18 ± 8.50	0.9869
14D01150	3.6 %	254.21 ± 3.04	723.08 ± 8.60	0.9879
14D01151	3.9 % ✓	265.75 ± 3.10	738.74 ± 8.56	0.9876
14D01152	4.2 % ✓	260.23 ± 4.16	727.73 ± 11.56	0.9876
14D01154	4.5 % ✓	273.21 ± 3.92	747.86 ± 10.68	0.9885
14D01155	4.8 % ✓	274.83 ± 3.76	749.63 ± 10.20	0.9885
14D01156	5.1 % ✓	273.78 ± 4.33	749.20 ± 11.79	0.9896
14D01158	5.4 % ✓	282.40 ± 3.79	764.09 ± 10.18	0.9888
14D01159	5.7 % ✓	270.79 ± 4.03	740.92 ± 10.96	0.9874
14D01160	6.1 % ✓	278.45 ± 4.01	751.61 ± 10.76	0.9890
14D01162	6.5 % ✓	275.79 ± 4.24	749.55 ± 11.45	0.9889
14D01163	6.9 % ✓	273.31 ± 4.16	745.10 ± 11.28	0.9890
14D01164	7.3 %	273.86 ± 4.11	736.67 ± 10.99	0.9891
14D01166	7.8 %	280.06 ± 4.53	748.36 ± 12.04	0.9901
14D01167	8.3 %	282.56 ± 4.37	748.51 ± 11.52	0.9902
14D01168	8.8 %	275.48 ± 4.34	734.17 ± 11.52	0.9893
14D01170	9.3 %	245.28 ± 3.65	679.16 ± 10.05	0.9875
14D01171	9.9 %	270.93 ± 4.60	708.70 ± 11.96	0.9881
14D01172	10.5 %	270.45 ± 4.63	698.98 ± 11.91	0.9878
14D01174	11.2 %	285.44 ± 5.73	710.90 ± 14.21	0.9904
14D01175	11.9 %	254.45 ± 4.52	653.84 ± 11.55	0.9861
14D01176	12.8 %	282.47 ± 5.71	667.99 ± 13.46	0.9877
14D01178	13.9 %	317.11 ± 6.84	673.40 ± 14.50	0.9883
14D01179	15.2 %	335.34 ± 8.17	658.73 ± 16.04	0.9897
14D01180	16.7 %	370.71 ± 9.87	667.72 ± 17.78	0.9908
14D01182	18.2 %	245.48 ± 4.60	532.81 ± 9.96	0.9853
14D01183	19.7 %	258.99 ± 4.47	554.74 ± 9.55	0.9858
14D01185	21.2 %	221.90 ± 3.28	522.04 ± 7.67	0.9841

Results	40(a)/36(a) ± 2σ	40(r)/39(k) ± 2σ	Age ± 2σ (Ma)	MSWD
Normal Isochron	375.63 ± 78.81 ± 20.98%	1.35975 ± 0.28881 ± 21.24%	3.95 ± 0.84 ± 21.22%	0.87
			Full External Error ± 0.84 Analytical Error ± 0.84	
Statistics	2σ Confidence Limit Error Magnification Number of Data Points	2.00 1.0000 10	Convergence Number of Iterations Calculated Line	0.000009736842 23 Weighted York-2

Inverse Isochron		39(k)/40(a+r) ± 2σ	36(a)/40(a+r) ± 2σ	r.i.
14D01140	1.8 %	0.1651631 ± 0.0004375	0.00234039 ± 0.00002254	0.0105
14D01142	2.0 %	0.2288731 ± 0.0005791	0.00193580 ± 0.00002040	0.0371
14D01143	2.2 %	0.2644324 ± 0.0008522	0.00172306 ± 0.00002559	0.0437
14D01144	2.4 %	0.2861233 ± 0.0007103	0.00163011 ± 0.00002009	0.0387
14D01146	2.7 %	0.3089807 ± 0.0008994	0.00150392 ± 0.00002315	0.0420
14D01147	3.0 %	0.3226602 ± 0.0006570	0.00146383 ± 0.00001837	0.0323
14D01148	3.3 %	0.3398435 ± 0.0006640	0.00141207 ± 0.00001694	0.0307
14D01150	3.6 %	0.3515692 ± 0.0006546	0.00138297 ± 0.00001644	0.0307
14D01151	3.9 % ✓	0.3597355 ± 0.0006585	0.00135365 ± 0.00001568	0.0309
14D01152	4.2 % ✓	0.3575878 ± 0.0008973	0.00137414 ± 0.00002183	0.0428
14D01154	4.5 % ✓	0.3653186 ± 0.0007934	0.00133715 ± 0.00001909	0.0368
14D01155	4.8 % ✓	0.3666241 ± 0.0007593	0.00133400 ± 0.00001816	0.0328
14D01156	5.1 % ✓	0.3654246 ± 0.0008310	0.00133476 ± 0.00002101	0.0352
14D01158	5.4 % ✓	0.3695865 ± 0.0007389	0.00130874 ± 0.00001744	0.0350
14D01159	5.7 % ✓	0.3654797 ± 0.0008613	0.00134968 ± 0.00001996	0.0402
14D01160	6.1 % ✓	0.3704728 ± 0.0007887	0.00133047 ± 0.00001906	0.0342
14D01162	6.5 % ✓	0.3679397 ± 0.0008420	0.00133413 ± 0.00002038	0.0383
14D01163	6.9 % ✓	0.3668078 ± 0.0008262	0.00134210 ± 0.00002033	0.0358
14D01164	7.3 %	0.3717593 ± 0.0008216	0.00135746 ± 0.00002025	0.0335
14D01166	7.8 %	0.3742327 ± 0.0008490	0.00133625 ± 0.00002150	0.0359
14D01167	8.3 %	0.3774945 ± 0.0008141	0.00133598 ± 0.00002055	0.0341
14D01168	8.8 %	0.3752282 ± 0.0008622	0.00136209 ± 0.00002137	0.0377
14D01170	9.3 %	0.3611490 ± 0.0008478	0.00147241 ± 0.00002178	0.0402
14D01171	9.9 %	0.3822916 ± 0.0009999	0.00141104 ± 0.00002381	0.0434
14D01172	10.5 %	0.3869154 ± 0.0010315	0.00143065 ± 0.00002437	0.0452
14D01174	11.2 %	0.4015252 ± 0.0011167	0.00140666 ± 0.00002812	0.0428
14D01175	11.9 %	0.3891599 ± 0.0011517	0.00152943 ± 0.00002701	0.0525
14D01176	12.8 %	0.4228688 ± 0.0013360	0.00149704 ± 0.00003016	0.0571
14D01178	13.9 %	0.4709118 ± 0.0015511	0.00148500 ± 0.00003198	0.0638
14D01179	15.2 %	0.5090711 ± 0.0017763	0.00151808 ± 0.00003697	0.0670
14D01180	16.7 %	0.5551928 ± 0.0020060	0.00149764 ± 0.00003988	0.0670
14D01182	18.2 %	0.4607211 ± 0.0014807	0.00187685 ± 0.00003510	0.0676
14D01183	19.7 %	0.4668732 ± 0.0013555	0.00180264 ± 0.00003102	0.0627
14D01185	21.2 %	0.4250579 ± 0.0011165	0.00191556 ± 0.00002813	0.0544

Results	40(a)/36(a) ± 2σ	40(r)/39(k) ± 2σ	Age ± 2σ (Ma)	MSWD
Inverse Isochron	374.75 ± 81.32	1.36312 ± 0.25992	3.96 ± 0.75	0.88
Clustered Points	± 21.70%	± 19.07%	± 19.05%	53%
			Full External Error ± 0.76	
			Analytical Error ± 0.75	
Statistics	2σ Confidence Limit	2.00	Convergence	0.0001320036
	Error Magnification	1.0000	Number of Iterations	3
	Number of Data Points	10	Calculated Line	Weighted York-2
	Spreading Factor	1.8%		

Relative Abundances		36Ar [fA]	%1σ	37Ar [fA]	%1σ	38Ar [fA]	%1σ	39Ar [fA]	%1σ	40Ar [fA]	%1σ	40(r)/39(k) ± 2σ	Age ± 2σ (Ma)	40Ar(r) (%)	39Ar(k) (%)	K/Ca ± 2σ
14D01140	1.8 %	0.4501506	0.454	23.5589	9.838	1.689640	2.277	31.3152	0.130	189.5373	0.026	1.86733 ± 0.04068	5.42 ± 0.12	30.84	1.75	0.571 ± 0.112
14D01142	2.0 %	0.3580769	0.482	29.2178	8.132	2.043567	1.992	41.3848	0.116	180.7757	0.050	1.86990 ± 0.02693	5.43 ± 0.08	42.79	2.31	0.609 ± 0.099
14D01143	2.2 %	0.2104420	0.656	15.2343	15.948	1.535186	2.726	31.6312	0.144	119.6125	0.072	1.85619 ± 0.02947	5.39 ± 0.09	49.07	1.77	0.893 ± 0.285
14D01144	2.4 %	0.2760167	0.549	29.7596	8.126	2.173177	1.847	46.9964	0.111	164.2297	0.054	1.81147 ± 0.02140	5.26 ± 0.06	51.82	2.63	0.679 ± 0.110
14D01146	2.7 %	0.2005412	0.653	28.2187	9.179	1.743839	2.244	39.6042	0.128	128.1556	0.069	1.79814 ± 0.02296	5.22 ± 0.07	55.54	2.21	0.603 ± 0.111
14D01147	3.0 %	0.3035790	0.560	43.1018	5.850	2.760617	1.414	64.2925	0.091	199.2326	0.045	1.75863 ± 0.01731	5.11 ± 0.05	56.73	3.59	0.641 ± 0.075
14D01148	3.3 %	0.3201903	0.537	53.4590	4.349	3.089504	1.259	73.5252	0.088	216.3185	0.042	1.71471 ± 0.01521	4.98 ± 0.04	58.25	4.11	0.591 ± 0.051
14D01150	3.6 %	0.3214026	0.525	59.1846	4.180	3.153592	1.219	77.5868	0.083	220.6521	0.041	1.68198 ± 0.01426	4.89 ± 0.04	59.11	4.34	0.563 ± 0.047
14D01151	3.9 %	✓ 0.3240138	0.505	62.4070	4.124	3.185072	1.222	81.5779	0.082	226.7376	0.040	1.66788 ± 0.01333	4.84 ± 0.04	59.98	4.56	0.562 ± 0.046
14D01152	4.2 %	✓ 0.1985232	0.672	40.4778	6.063	1.896674	2.162	48.7951	0.107	136.4292	0.065	1.66096 ± 0.01869	4.82 ± 0.05	59.37	2.73	0.518 ± 0.063
14D01154	4.5 %	✓ 0.2389862	0.613	54.6222	4.377	2.306490	1.722	61.2485	0.094	167.6189	0.053	1.65574 ± 0.01598	4.81 ± 0.05	60.46	3.42	0.482 ± 0.042
14D01155	4.8 %	✓ 0.2612518	0.579	62.7419	4.080	2.394113	1.684	67.1464	0.092	183.1005	0.048	1.65238 ± 0.01514	4.80 ± 0.04	60.56	3.75	0.460 ± 0.038
14D01156	5.1 %	✓ 0.2246815	0.664	57.4880	4.510	2.034472	1.995	57.2746	0.099	156.6864	0.056	1.65719 ± 0.01753	4.81 ± 0.05	60.54	3.20	0.428 ± 0.039
14D01158	5.4 %	✓ 0.2676948	0.553	83.0433	3.105	2.416703	1.689	69.3143	0.087	187.4643	0.048	1.65933 ± 0.01445	4.82 ± 0.04	61.30	3.87	0.359 ± 0.022
14D01159	5.7 %	✓ 0.2178542	0.608	64.2361	3.871	1.825745	2.277	54.3394	0.102	148.6162	0.059	1.64488 ± 0.01675	4.78 ± 0.05	60.09	3.04	0.363 ± 0.028
14D01160	6.1 %	✓ 0.2543693	0.595	86.8050	2.870	2.170635	1.913	64.3793	0.093	173.6833	0.051	1.63803 ± 0.01571	4.76 ± 0.05	60.66	3.60	0.319 ± 0.018
14D01162	6.5 %	✓ 0.2299631	0.621	87.2630	2.863	1.959840	2.077	57.0113	0.099	154.8454	0.058	1.64637 ± 0.01693	4.78 ± 0.05	60.55	3.18	0.281 ± 0.016
14D01163	6.9 %	✓ 0.2442340	0.607	99.4321	2.693	1.956976	2.027	59.5327	0.098	162.1772	0.055	1.64503 ± 0.01692	4.78 ± 0.05	60.32	3.33	0.257 ± 0.014
14D01164	7.3 %	0.2566605	0.603	112.0814	2.255	2.001168	2.037	62.1498	0.097	167.0373	0.052	1.61091 ± 0.01660	4.68 ± 0.05	59.86	3.47	0.238 ± 0.011
14D01166	7.8 %	0.2353894	0.627	111.0216	2.515	1.839758	2.008	57.6847	0.098	153.9997	0.057	1.61701 ± 0.01750	4.70 ± 0.05	60.49	3.22	0.223 ± 0.011
14D01167	8.3 %	0.2566202	0.600	130.8950	2.094	1.983021	2.033	62.7210	0.094	165.9805	0.053	1.60325 ± 0.01657	4.66 ± 0.05	60.50	3.50	0.206 ± 0.009
14D01168	8.8 %	0.2367536	0.612	119.5307	2.162	1.735201	2.392	56.5133	0.099	150.4530	0.058	1.59237 ± 0.01736	4.63 ± 0.05	59.73	3.16	0.203 ± 0.009
14D01170	9.3 %	0.2536024	0.589	122.6765	2.007	1.586933	2.378	54.2675	0.101	150.0897	0.059	1.56418 ± 0.01834	4.54 ± 0.05	56.47	3.03	0.190 ± 0.008
14D01171	9.9 %	0.2121823	0.652	114.8074	2.136	1.457104	2.735	49.2759	0.111	128.7436	0.069	1.52511 ± 0.01900	4.43 ± 0.06	58.28	2.75	0.184 ± 0.008
14D01172	10.5 %	0.2042619	0.638	116.8456	2.194	1.428586	2.709	46.9021	0.112	121.0646	0.072	1.49191 ± 0.01921	4.33 ± 0.06	57.70	2.62	0.172 ± 0.008
14D01174	11.2 %	0.1867137	0.748	116.7359	2.183	1.317382	3.033	44.5055	0.115	110.6903	0.077	1.45528 ± 0.02125	4.23 ± 0.06	58.41	2.48	0.164 ± 0.007
14D01175	11.9 %	0.1901658	0.647	112.1305	2.328	1.220359	3.412	40.8704	0.122	104.8693	0.083	1.40830 ± 0.02115	4.09 ± 0.06	54.78	2.28	0.156 ± 0.007
14D01176	12.8 %	0.1643438	0.727	107.1298	2.312	1.027283	3.892	38.4538	0.126	90.8039	0.095	1.31867 ± 0.02171	3.83 ± 0.06	55.74	2.15	0.154 ± 0.007
14D01178	13.9 %	0.1532062	0.730	113.7811	2.315	1.086055	3.451	39.0712	0.125	82.8461	0.106	1.19170 ± 0.02069	3.46 ± 0.06	56.09	2.18	0.147 ± 0.007
14D01179	15.2 %	0.1424013	0.797	117.5856	2.337	1.027004	3.772	37.3590	0.127	73.2687	0.119	1.08316 ± 0.02204	3.15 ± 0.06	55.11	2.08	0.136 ± 0.006
14D01180	16.7 %	0.1336432	0.852	123.4690	2.149	0.986452	3.896	37.4781	0.128	67.3927	0.127	1.00406 ± 0.02177	2.92 ± 0.06	55.71	2.09	0.130 ± 0.006
14D01182	18.2 %	0.1988493	0.664	142.9683	1.863	1.093418	3.353	39.5953	0.125	85.7731	0.101	0.96673 ± 0.02293	2.81 ± 0.07	44.52	2.21	0.119 ± 0.004
14D01183	19.7 %	0.2218341	0.597	172.3699	1.577	1.362623	2.926	45.7163	0.115	97.7178	0.088	1.00096 ± 0.02003	2.91 ± 0.06	46.71	2.55	0.114 ± 0.004
14D01185	21.2 %	0.2818852	0.533	200.4417	1.385	1.522080	2.544	50.8780	0.109	119.4304	0.072	1.02092 ± 0.01989	2.97 ± 0.06	43.38	2.84	0.109 ± 0.003
Σ		8.2304840	0.104	3014.7209	0.494	63.010269	0.367	1790.3977	0.018	4986.0340	0.010					

Information on Analysis and Constants Used in Calculations

Sample = CANARY ISLANDS 2
 Material = Groundmass
 Location = Grand Canaria, Tamaraceite
 Analyst = Dan Miggins
 Project = CANARY ISLANDS | MECO (13-16)
 Mass Discrimination Law = LIN
 Irradiation = 13-OSU-05
 J = 0.00160830 ± 0.00000405
 FCT-NM = 28.201 ± 0.023 Ma
 IGSN = 25
 Preferred Age = Undefined
 Classification = Undefined
 Experiment Type = 5.52
 Extraction Method = Undefined
 Heating = 77 sec
 Isolation = 6.00 min
 Instrument = ARGUS-VI
 Lithology = Undefined
 Lat-Lon = Undefined - Undefined
 Collector Calibrations = 40Ar 36Ar

Age Equations = Min et al. (2000)
 Negative Intensities = Allowed
 Decay Constant 40K = 5.530 ± 0.048 E-10 1/a
 Decay Constant 39Ar = 2.940 ± 0.016 E-07 1/h
 Decay Constant 37Ar = 8.230 ± 0.012 E-04 1/h
 Decay Constant 36Cl = 2.257 ± 0.015 E-06 1/a
 Decay Constant 40K(EC,β⁺) = 0.580 ± 0.009 E-10 1/a
 Decay Constant 40K(β⁻) = 4.950 ± 0.043 E-10 1/a
 Atmospheric Ratio 40/36(a) = 295.50
 Atmospheric Ratio 38/36(a) = 0.1869
 Production Ratio 39/37(ca) = 0.000673
 Production Ratio 38/37(ca) = 0.000139
 Production Ratio 36/37(ca) = 0.000264
 Production Ratio 40/39(k) = 0.001010
 Production Ratio 38/39(k) = 0.011380
 Production Ratio 36/38(cl) = 262.80 ± 1.71
 Scaling Ratio K/Ca = 0.430
 Abundance Ratio 40K/K = 1.1700 ± 0.0100 E-04
 Atomic Weight K = 39.0983 ± 0.0001 g

Results

	40(a)/36(a) ± 2σ	40(r)/39(k) ± 2σ	Age ± 2σ (Ma)	MSWD	39Ar(k) (%),n	K/Ca ± 2σ
Age Plateau		1.65346 ± 0.00603 ± 0.36%	4.80 ± 0.03 ± 0.62%	1.43	34.68	0.324 ± 0.051
			Full External Error ± 0.11	1.94	2σ Confidence Limit	
			Analytical Error ± 0.02	1.1962	Error Magnification	
Total Fusion Age		1.56081 ± 0.00320 ± 0.21%	4.53 ± 0.02 ± 0.54%		34	0.255 ± 0.003
			Full External Error ± 0.11			
			Analytical Error ± 0.01			
Normal Isochron	375.63 ± 78.81 ± 20.98%	1.35975 ± 0.28881 ± 21.24%	3.95 ± 0.84 ± 21.22%	0.87	34.68	
			Full External Error ± 0.84	2.00	2σ Confidence Limit	
			Analytical Error ± 0.84	1.0000	Error Magnification	
				23	Number of Iterations	
				0.0000097368	Convergence	
Inverse Isochron	374.75 ± 81.32 ± 21.70%	1.36312 ± 0.25992 ± 19.07%	3.96 ± 0.75 ± 19.05%	0.88	34.68	
Clustered Points				53%	10	

OSU Argon Geochronology Lab

Degassing Patterns		36Ar(a) [fA]	%1σ	36Ar(c) [fA]	%1σ	36Ar(ca) [fA]	%1σ	36Ar(cl) [fA]	%1σ	37Ar(ca) [fA]	%1σ	38Ar(a) [fA]	%1σ	38Ar(c) [fA]	%1σ	38Ar(k) [fA]	%1σ	38Ar(ca) [fA]	%1σ	38Ar(cl) [fA]	%1σ	39Ar(k) [fA]	%1σ	39Ar(ca) [fA]	%1σ	40Ar(r) [fA]	%1σ	40Ar(a) [fA]	%1σ	40Ar(c) [fA]	%1σ	40Ar(k) [fA]	%1σ
14D01140	1.8 %	0.4435177	0.48	0.0000000	0.00	0.0062195	9.84	0.0004134	3.22	23.5589	9.84	0.0828935	0.48	0.0000000	0.00	0.356187	0.13	0.0032747	9.84	1.247285	3.35	31.2994	0.13	0.0158551	9.84	58.4463	1.08	131.0595	0.48	0.0000000	0.00	0.0316124	0.13
14D01142	2.0 %	0.3498651	0.52	0.0000000	0.00	0.0077135	8.13	0.0004983	2.86	29.2178	8.13	0.0653898	0.52	0.0000000	0.00	0.470735	0.12	0.0040613	8.13	1.503380	3.00	41.3651	0.12	0.0196636	8.13	77.3488	0.71	103.3851	0.52	0.0000000	0.00	0.0417788	0.12
14D01143	2.2 %	0.2060440	0.74	0.0000000	0.00	0.0040218	15.95	0.0003761	3.80	15.2343	15.95	0.0385096	0.74	0.0000000	0.00	0.359847	0.14	0.0021176	15.95	1.134712	3.91	31.6210	0.14	0.0102527	15.95	58.6946	0.78	60.8860	0.74	0.0000000	0.00	0.0319372	0.14
14D01144	2.4 %	0.2676350	0.61	0.0000000	0.00	0.0078565	8.13	0.0005252	2.70	29.7596	8.13	0.0500210	0.61	0.0000000	0.00	0.534591	0.11	0.0041366	8.13	1.584428	2.85	46.9764	0.11	0.0200282	8.13	85.0962	0.58	79.0861	0.61	0.0000000	0.00	0.0474461	0.11
14D01146	2.7 %	0.1926760	0.77	0.0000000	0.00	0.0074497	9.18	0.0004155	3.26	28.2187	9.18	0.0360111	0.77	0.0000000	0.00	0.450480	0.13	0.0039224	9.18	1.253426	3.38	39.5852	0.13	0.0189912	9.18	71.1798	0.63	56.9357	0.77	0.0000000	0.00	0.0399811	0.13
14D01147	3.0 %	0.2915475	0.63	0.0000000	0.00	0.0113789	5.85	0.0006527	2.19	43.1018	5.85	0.0544902	0.63	0.0000000	0.00	0.731319	0.09	0.0059911	5.85	1.968817	2.37	64.2635	0.09	0.0290075	5.85	113.0154	0.48	86.1523	0.63	0.0000000	0.00	0.0649061	0.09
14D01148	3.3 %	0.3053515	0.60	0.0000000	0.00	0.0141132	4.35	0.0007256	2.00	53.4590	4.35	0.0570702	0.60	0.0000000	0.00	0.836307	0.09	0.0074308	4.35	2.188695	2.20	73.4892	0.09	0.0359779	4.35	126.0129	0.43	90.2314	0.60	0.0000000	0.00	0.0742241	0.09
14D01150	3.6 %	0.3050465	0.59	0.0000000	0.00	0.0156247	4.18	0.0007314	1.97	59.1846	4.18	0.0570132	0.59	0.0000000	0.00	0.882484	0.08	0.0082267	4.18	2.205868	2.17	77.5469	0.08	0.0398312	4.18	130.4326	0.42	90.1412	0.59	0.0000000	0.00	0.0783224	0.08
14D01151	3.9 %	✓ 0.3068118	0.58	0.0000000	0.00	0.0164754	4.12	0.0007266	2.00	62.4070	4.12	0.0573431	0.58	0.0000000	0.00	0.927879	0.08	0.0086746	4.12	2.191175	2.20	81.5359	0.08	0.0419999	4.12	135.9923	0.39	90.6629	0.58	0.0000000	0.00	0.0823513	0.08
14D01152	4.2 %	✓ 0.1874056	0.79	0.0000000	0.00	0.0106861	6.06	0.0004314	3.28	40.4778	6.06	0.0350261	0.79	0.0000000	0.00	0.554978	0.11	0.0056264	6.06	1.301044	3.41	48.7678	0.11	0.0272415	6.06	81.0016	0.55	55.3784	0.79	0.0000000	0.00	0.0492555	0.11
14D01154	4.5 %	✓ 0.2240485	0.71	0.0000000	0.00	0.0144203	4.38	0.0005175	2.71	54.6222	4.38	0.0418747	0.71	0.0000000	0.00	0.696589	0.09	0.0075925	4.38	1.560433	2.86	61.2117	0.09	0.0367607	4.38	101.3508	0.47	66.2063	0.71	0.0000000	0.00	0.0618238	0.09
14D01155	4.8 %	✓ 0.2441652	0.68	0.0000000	0.00	0.0165639	4.08	0.0005227	2.72	62.7419	4.08	0.0456345	0.68	0.0000000	0.00	0.763646	0.09	0.0087211	4.08	1.576112	2.87	67.1042	0.09	0.0422253	4.08	110.8819	0.45	72.1508	0.68	0.0000000	0.00	0.0677753	0.09
14D01156	5.1 %	✓ 0.2090616	0.79	0.0000000	0.00	0.0151768	4.51	0.0004431	3.17	57.4880	4.51	0.0390736	0.79	0.0000000	0.00	0.651345	0.10	0.0079908	4.51	1.336062	3.30	57.2359	0.10	0.0386894	4.51	94.8509	0.52	61.7777	0.79	0.0000000	0.00	0.0578083	0.10
14D01158	5.4 %	✓ 0.2452503	0.66	0.0000000	0.00	0.0219234	3.11	0.0005211	2.76	83.0433	3.11	0.0458373	0.66	0.0000000	0.00	0.788161	0.09	0.0115430	3.11	1.571162	2.91	69.2584	0.09	0.0558881	3.11	114.9229	0.43	72.4715	0.66	0.0000000	0.00	0.0699510	0.09
14D01159	5.7 %	✓ 0.2005107	0.74	0.0000000	0.00	0.0169583	3.87	0.0003852	3.70	64.2361	3.87	0.0374754	0.74	0.0000000	0.00	0.617890	0.10	0.0089288	3.87	1.161451	3.81	54.2962	0.10	0.0432309	3.87	89.3105	0.50	59.2509	0.74	0.0000000	0.00	0.0548391	0.10
14D01160	6.1 %	✓ 0.2309939	0.71	0.0000000	0.00	0.0229165	2.87	0.0004589	3.14	86.8050	2.87	0.0431728	0.71	0.0000000	0.00	0.731972	0.09	0.0120659	2.87	1.383425	3.27	64.3209	0.09	0.0584198	2.87	105.3596	0.47	68.2587	0.71	0.0000000	0.00	0.0649641	0.09
14D01162	6.5 %	✓ 0.2065074	0.76	0.0000000	0.00	0.0230374	2.86	0.0004183	3.36	87.2630	2.86	0.0385962	0.76	0.0000000	0.00	0.648121	0.10	0.0121296	2.86	1.260994	3.48	56.9526	0.10	0.0587280	2.86	93.7650	0.50	61.0229	0.76	0.0000000	0.00	0.0575221	0.10
14D01163	6.9 %	✓ 0.2175773	0.76	0.0000000	0.00	0.0262501	2.69	0.0004066	3.37	99.4321	2.69	0.0406652	0.76	0.0000000	0.00	0.676721	0.10	0.0138211	2.69	1.225769	3.49	59.4658	0.10	0.0669178	2.69	97.8230	0.50	64.2941	0.76	0.0000000	0.00	0.0600605	0.10
14D01164	7.3 %	0.2266607	0.74	0.0000000	0.00	0.0295895	2.25	0.0004103	3.42	112.0814	2.25	0.0423629	0.74	0.0000000	0.00	0.706406	0.10	0.0155793	2.25	1.236820	3.54	62.0743	0.10	0.0754308	2.25	99.9963	0.51	66.9782	0.74	0.0000000	0.00	0.0626951	0.10
14D01166	7.8 %	0.2057046	0.80	0.0000000	0.00	0.0293097	2.51	0.0003750	3.40	111.0216	2.51	0.0384462	0.80	0.0000000	0.00	0.655601	0.10	0.0154320	2.51	1.130279	3.52	57.6100	0.10	0.0747176	2.51	93.1558	0.53	60.7857	0.80	0.0000000	0.00	0.0581861	0.10
14D01167	8.3 %	0.2216622	0.77	0.0000000	0.00	0.0345563	2.09	0.0004017	3.46	130.8950	2.09	0.0414287	0.77	0.0000000	0.00	0.712762	0.09	0.0181944	2.09	1.210636	3.58	62.6329	0.09	0.0880923	2.09	100.4161	0.51	65.5012	0.77	0.0000000	0.00	0.0632592	0.09
14D01168	8.8 %	0.2048530	0.78	0.0000000	0.00	0.0315561	2.16	0.0003445	4.10	119.5307	2.16	0.0382870	0.78	0.0000000	0.00	0.642205	0.10	0.0166148	2.16	1.038093	4.21	56.4328	0.10	0.0804441	2.16	89.8619	0.54	60.5341	0.78	0.0000000	0.00	0.0569971	0.10
14D01170	9.3 %	0.2209131	0.74	0.0000000	0.00	0.0323866	2.01	0.0003026	4.24	122.6765	2.01	0.0412887	0.74	0.0000000	0.00	0.616625	0.10	0.0170520	2.01	0.911967	4.34	54.1850	0.10	0.0825613	2.01	84.7551	0.58	65.2798	0.74	0.0000000	0.00	0.0547268	0.10
14D01171	9.9 %	0.1815920	0.84	0.0000000	0.00	0.0303091	2.14	0.0002812	4.79	114.8074	2.14	0.0339395	0.84	0.0000000	0.00	0.559880	0.11	0.0159582	2.14	0.847326	4.88	49.1986	0.11	0.0772654	2.14	75.0335	0.61	53.6604	0.84	0.0000000	0.00	0.0496906	0.11
14D01172	10.5 %	0.1731335	0.85	0.0000000	0.00	0.0308472	2.19	0.0002811	4.66	116.8456	2.19	0.0323586	0.85	0.0000000	0.00	0.532851	0.11	0.0162415	2.19	0.847135	4.75	46.8235	0.11	0.0786371	2.19	69.8564	0.63	51.1609	0.85	0.0000000	0.00	0.0472917	0.11
14D01174	11.2 %	0.1556410	1.00	0.0000000	0.00	0.0308183	2.18	0.0002544	5.29	116.7359	2.18	0.0290893	1.00	0.0000000	0.00	0.505578	0.12	0.0162263	2.18	0.766488	5.37	44.4269	0.12	0.0785633	2.18	64.6535	0.72	45.9919	1.00	0.0000000	0.00	0.0448712	0.12
14D01175	11.9 %	0.1603275	0.88	0.0000000	0.00	0.0296025	2.33	0.0002358	5.93	112.1305	2.33	0.0299652	0.88	0.0000000	0.00	0.464246	0.12	0.0155861	2.33	0.710561	6.00	40.7949	0.12	0.0754639	2.33	57.4514	0.74	47.3768	0.88	0.0000000	0.00	0.0412029	0.12
14D01176	12.8 %	0.1358789	1.00	0.0000000	0.00	0.0282823	2.31	0.0001826	7.33	107.1298	2.31	0.0253958	1.00	0.0000000	0.00	0.436784	0.13	0.0148910	2.31	0.550212	7.38	38.3817	0.13	0.0720983	2.31	50.6129	0.81	40.1522	1.00	0.0000000	0.00	0.0387656	0.13
14D01178	13.9 %	0.1229676	1.07	0.0000000	0.00	0.0300382	2.31	0.0002003	6.28	113.7811	2.31	0.0229827	1.07	0.0000000	0.00	0.443759	0.13	0.0158156	2.31	0.603498	6.35	38.9946	0.13	0.0765747	2.31	46.4697	0.86	36.3369	1.07	0.0000000	0.00	0.0393846	0.13
14D01179	15.2 %	0.1111709	1.21	0.0000000	0.00	0.0310426	2.34	0.0001878	6.91	117.5856	2.34	0.0207778	1.21	0.0000000	0.00	0.424244	0.13	0.0163444	2.34	0.565637	6.97	37.2798	0.13	0.0791351	2.34	40.3801	1.01	32.8510	1.21	0.0000000	0.00	0.0376526	0.13
14D01180	16.7 %	0.1008732	1.33	0.0000000	0.00	0.0325958	2.15	0.0001743	7.38	123.4690	2.15	0.0188532	1.33	0.0000000	0.00	0.425555	0.13	0.0171622	2.15	0.524882	7.44	37.3950	0.13	0.0830946	2.15	37.5469	1.08						

Additional Parameters		40Ar/39Ar	1σ	37Ar/39Ar	1σ	36Ar/39Ar	1σ	Time (days)	37Ar (decay)	39Ar (decay)	40Ar (moles)
14D01140	1.8 %	6.052563	0.008007	0.752313	0.074020	0.014375	0.000068	204.085	56.461734	1.00144195	9.098E-12
14D01142	2.0 %	4.368167	0.005521	0.706003	0.057420	0.008652	0.000043	204.103	56.481099	1.00144207	8.677E-12
14D01143	2.2 %	3.781469	0.006089	0.481621	0.076814	0.006653	0.000045	204.112	56.491171	1.00144213	5.741E-12
14D01144	2.4 %	3.494517	0.004334	0.633231	0.051464	0.005873	0.000033	204.120	56.500471	1.00144219	7.883E-12
14D01146	2.7 %	3.235906	0.004706	0.712516	0.065407	0.005064	0.000034	204.137	56.519849	1.00144232	6.151E-12
14D01147	3.0 %	3.098847	0.003153	0.670401	0.039223	0.004722	0.000027	204.146	56.529153	1.00144237	9.563E-12
14D01148	3.3 %	2.942101	0.002872	0.727085	0.031630	0.004355	0.000024	204.155	56.539234	1.00144244	1.038E-11
14D01150	3.6 %	2.843940	0.002646	0.762818	0.031889	0.004142	0.000022	204.172	56.558625	1.00144256	1.059E-11
14D01151	3.9 % ✓	2.779399	0.002542	0.764998	0.031554	0.003972	0.000020	204.181	56.567936	1.00144262	1.088E-11
14D01152	4.2 % ✓	2.795965	0.003505	0.829547	0.050304	0.004069	0.000028	204.189	56.577248	1.00144268	6.549E-12
14D01154	4.5 % ✓	2.736703	0.002969	0.891813	0.039042	0.003902	0.000024	204.206	56.596652	1.00144280	8.046E-12
14D01155	4.8 % ✓	2.726884	0.002821	0.934404	0.038135	0.003891	0.000023	204.215	56.606745	1.00144286	8.789E-12
14D01156	5.1 % ✓	2.735704	0.003108	1.003725	0.045283	0.003923	0.000026	204.224	56.616063	1.00144292	7.521E-12
14D01158	5.4 % ✓	2.704554	0.002701	1.198068	0.037215	0.003862	0.000022	204.241	56.635481	1.00144305	8.998E-12
14D01159	5.7 % ✓	2.734962	0.003219	1.182127	0.045773	0.004009	0.000025	204.249	56.644804	1.00144311	7.134E-12
14D01160	6.1 % ✓	2.697813	0.002869	1.348337	0.038713	0.003951	0.000024	204.258	56.654906	1.00144317	8.337E-12
14D01162	6.5 % ✓	2.716046	0.003104	1.530625	0.043846	0.004034	0.000025	204.276	56.674337	1.00144329	7.433E-12
14D01163	6.9 % ✓	2.724168	0.003064	1.670209	0.045013	0.004103	0.000025	204.284	56.683667	1.00144335	7.785E-12
14D01164	7.3 %	2.687657	0.002966	1.803408	0.040701	0.004130	0.000025	204.292	56.692997	1.00144341	8.018E-12
14D01166	7.8 %	2.669681	0.003024	1.924630	0.048437	0.004081	0.000026	204.310	56.712442	1.00144353	7.392E-12
14D01167	8.3 %	2.646333	0.002849	2.086942	0.043741	0.004091	0.000025	204.319	56.722555	1.00144360	7.967E-12
14D01168	8.8 %	2.662260	0.003054	2.115091	0.045779	0.004189	0.000026	204.327	56.731893	1.00144365	7.222E-12
14D01170	9.3 %	2.765736	0.003241	2.260588	0.045428	0.004673	0.000028	204.344	56.751350	1.00144378	7.204E-12
14D01171	9.9 %	2.612711	0.003412	2.329890	0.049841	0.004306	0.000028	204.353	56.760692	1.00144384	6.180E-12
14D01172	10.5 %	2.581219	0.003435	2.491266	0.054742	0.004355	0.000028	204.362	56.770815	1.00144390	5.811E-12
14D01174	11.2 %	2.487116	0.003452	2.622956	0.057327	0.004195	0.000032	204.379	56.790286	1.00144402	5.313E-12
14D01175	11.9 %	2.565901	0.003790	2.743566	0.063971	0.004653	0.000031	204.387	56.799634	1.00144408	5.034E-12
14D01176	12.8 %	2.361374	0.003724	2.785932	0.064497	0.004274	0.000032	204.397	56.809763	1.00144415	4.359E-12
14D01178	13.9 %	2.120386	0.003486	2.912146	0.067508	0.003921	0.000029	204.413	56.828468	1.00144426	3.977E-12
14D01179	15.2 %	1.961209	0.003416	3.147455	0.073662	0.003812	0.000031	204.422	56.838603	1.00144433	3.517E-12
14D01180	16.7 %	1.798190	0.003243	3.294434	0.070909	0.003566	0.000031	204.431	56.847959	1.00144439	3.235E-12
14D01182	18.2 %	2.166244	0.003474	3.610737	0.067403	0.005022	0.000034	204.448	56.867456	1.00144451	4.117E-12
14D01183	19.7 %	2.137481	0.003096	3.770423	0.059632	0.004852	0.000030	204.456	56.876818	1.00144457	4.690E-12
14D01185	21.2 %	2.347390	0.003076	3.939656	0.054725	0.005540	0.000030	204.474	56.896325	1.00144469	5.733E-12

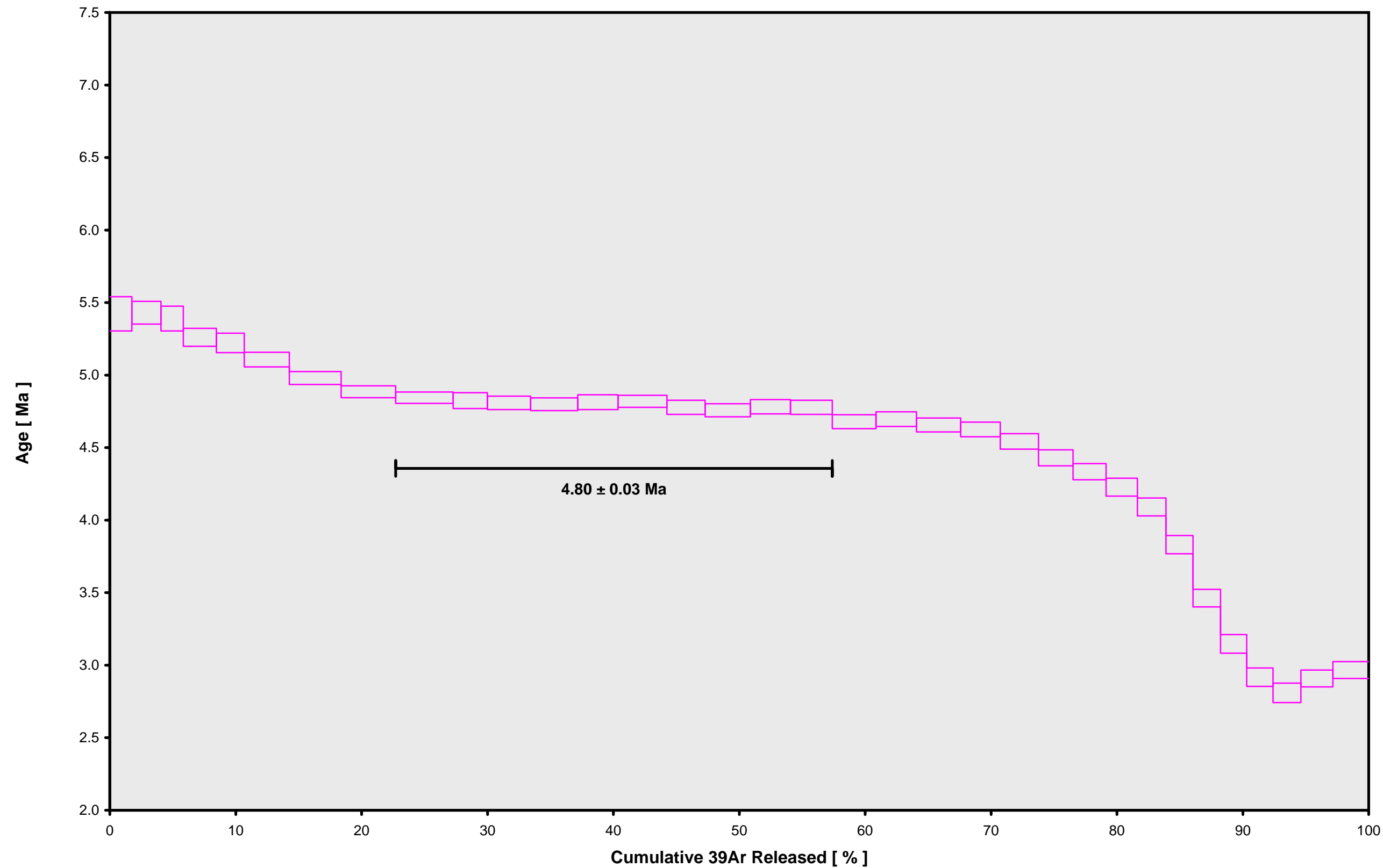
Procedure Blanks		36Ar [fA]	1σ	37Ar [fA]	1σ	38Ar [fA]	1σ	39Ar [fA]	1σ	40Ar [fA]	1σ
14D01140	1.8 %	0.0160693	0.0003399	0.0227871	0.0264790	0.0535821	0.0265285	0.1320657	0.0232137	4.6024488	0.0294469
14D01142	2.0 %	0.0189554	0.0005263	0.0162974	0.0299303	0.0035716	0.0280199	0.0694507	0.0313990	5.6119814	0.0795098
14D01143	2.2 %	0.0188359	0.0005263	0.0156712	0.0299303	0.0024433	0.0280199	0.0691717	0.0313990	5.5576541	0.0795098
14D01144	2.4 %	0.0187257	0.0005263	0.0150932	0.0299303	0.0014018	0.0280199	0.0689141	0.0313990	5.5081696	0.0795098
14D01146	2.7 %	0.0184961	0.0005263	0.0138890	0.0299303	0.0007680	0.0280199	0.0683775	0.0313990	5.4071231	0.0795098
14D01147	3.0 %	0.0183858	0.0005263	0.0133110	0.0299303	0.0018096	0.0280199	0.0681199	0.0313990	5.3596031	0.0795098
14D01148	3.3 %	0.0182664	0.0005263	0.0126848	0.0299303	0.0029379	0.0280199	0.0678408	0.0313990	5.3088420	0.0795098
14D01150	3.6 %	0.0180368	0.0005263	0.0114806	0.0299303	0.0051077	0.0280199	0.0673042	0.0313990	5.2133263	0.0795098
14D01151	3.9 %	0.0179265	0.0005263	0.0109026	0.0299303	0.0061492	0.0280199	0.0670466	0.0313990	5.1684610	0.0795098
14D01152	4.2 %	0.0178163	0.0005263	0.0103246	0.0299303	0.0071908	0.0280199	0.0667890	0.0313990	5.1242328	0.0795098
14D01154	4.5 %	0.0175866	0.0005263	0.0091203	0.0299303	0.0093606	0.0280199	0.0662524	0.0313990	5.0341372	0.0795098
14D01155	4.8 %	0.0174672	0.0005263	0.0084942	0.0299303	0.0104889	0.0280199	0.0659733	0.0313990	4.9883803	0.0795098
14D01156	5.1 %	0.0173570	0.0005263	0.0079161	0.0299303	0.0115304	0.0280199	0.0657158	0.0313990	4.9468068	0.0795098
14D01158	5.4 %	0.0171273	0.0005263	0.0067119	0.0299303	0.0137003	0.0280199	0.0651791	0.0313990	4.8622419	0.0795098
14D01159	5.7 %	0.0170171	0.0005263	0.0061339	0.0299303	0.0147418	0.0280199	0.0649216	0.0313990	4.8226329	0.0795098
14D01160	6.1 %	0.0168977	0.0005263	0.0055077	0.0299303	0.0158701	0.0280199	0.0646425	0.0313990	4.7804422	0.0795098
14D01162	6.5 %	0.0166680	0.0005263	0.0043035	0.0299303	0.0180400	0.0280199	0.0641059	0.0313990	4.7014080	0.0795098
14D01163	6.9 %	0.0165578	0.0005263	0.0037255	0.0299303	0.0190815	0.0280199	0.0638483	0.0313990	4.6644538	0.0795098
14D01164	7.3 %	0.0164476	0.0005263	0.0031475	0.0299303	0.0201230	0.0280199	0.0635907	0.0313990	4.6281367	0.0795098
14D01166	7.8 %	0.0162179	0.0005263	0.0019433	0.0299303	0.0222928	0.0280199	0.0630541	0.0313990	4.5545225	0.0795098
14D01167	8.3 %	0.0160985	0.0005263	0.0013171	0.0299303	0.0234212	0.0280199	0.0627750	0.0313990	4.5173360	0.0795098
14D01168	8.8 %	0.0159883	0.0005263	0.0007391	0.0299303	0.0244627	0.0280199	0.0625174	0.0313990	4.4836737	0.0795098
14D01170	9.3 %	0.0157586	0.0005263	0.0004651	0.0299303	0.0266325	0.0280199	0.0619808	0.0313990	4.4155902	0.0795098
14D01171	9.9 %	0.0156484	0.0005263	0.0010432	0.0299303	0.0276740	0.0280199	0.0617232	0.0313990	4.3838923	0.0795098
14D01172	10.5 %	0.0155290	0.0005263	0.0016693	0.0299303	0.0288024	0.0280199	0.0614442	0.0313990	4.3502720	0.0795098
14D01174	11.2 %	0.0152993	0.0005263	0.0028736	0.0299303	0.0309722	0.0280199	0.0609076	0.0313990	4.2877192	0.0795098
14D01175	11.9 %	0.0151891	0.0005263	0.0034516	0.0299303	0.0320137	0.0280199	0.0606500	0.0313990	4.2586761	0.0795098
14D01176	12.8 %	0.0150697	0.0005263	0.0040778	0.0299303	0.0331420	0.0280199	0.0603709	0.0313990	4.2279317	0.0795098
14D01178	13.9 %	0.0148492	0.0005263	0.0052338	0.0299303	0.0352251	0.0280199	0.0598558	0.0313990	4.1731374	0.0795098
14D01179	15.2 %	0.0147298	0.0005263	0.0058600	0.0299303	0.0363534	0.0280199	0.0595767	0.0313990	4.1445213	0.0795098
14D01180	16.7 %	0.0146196	0.0005263	0.0064380	0.0299303	0.0373949	0.0280199	0.0593191	0.0313990	4.1187700	0.0795098
14D01182	18.2 %	0.0143899	0.0005263	0.0076422	0.0299303	0.0395648	0.0280199	0.0587825	0.0313990	4.0671680	0.0795098
14D01183	19.7 %	0.0142797	0.0005263	0.0082202	0.0299303	0.0406063	0.0280199	0.0585249	0.0313990	4.0433813	0.0795098
14D01185	21.2 %	0.0140500	0.0005263	0.0094244	0.0299303	0.0427761	0.0280199	0.0579883	0.0313990	3.9958720	0.0795098

OSU Argon Geochronology Lab

Intercept Values		36Ar [fA]	1σ	r2		37Ar [fA]	1σ	r2		38Ar [fA]	1σ	r2		39Ar [fA]	1σ	r2		40Ar [fA]	1σ	r2	
14D01140	1.8 %	0.4472227	0.0015708	0.6964	EXP 148 of 150	0.4325	0.0303	0.0270	EXP 150 of 150	1.615793	0.027152	0.1130	EXP 150 of 150	31.2150	0.0266	0.9825	EXP 150 of 150	194.5303	0.0394	0.9961	EXP 150 of 150
14D01142	2.0 %	0.3619208	0.0012893	0.6918	EXP 150 of 150	0.5243	0.0283	0.0164	EXP 150 of 150	2.022629	0.028752	0.1409	EXP 150 of 150	41.1473	0.0251	0.9914	EXP 150 of 150	186.7601	0.0423	0.9955	EXP 150 of 150
14D01143	2.2 %	0.2203969	0.0010950	0.2876	EXP 150 of 150	0.2805	0.0298	0.0300	EXP 150 of 150	1.519217	0.030352	0.1123	EXP 150 of 150	31.4658	0.0259	0.9846	EXP 150 of 150	125.4166	0.0343	0.9837	EXP 150 of 150
14D01144	2.4 %	0.2830940	0.0011649	0.5517	EXP 150 of 150	0.5323	0.0293	0.0047	EXP 150 of 150	2.148515	0.027928	0.1709	EXP 150 of 150	46.7167	0.0294	0.9910	EXP 150 of 150	170.0763	0.0410	0.9944	EXP 150 of 150
14D01146	2.7 %	0.2105741	0.0010232	0.3138	EXP 150 of 150	0.5042	0.0335	0.0237	EXP 150 of 150	1.722157	0.026556	0.0664	EXP 149 of 150	39.3788	0.0308	0.9857	EXP 150 of 150	133.8268	0.0378	0.9889	EXP 150 of 150
14D01147	3.0 %	0.3091533	0.0013430	0.5150	EXP 150 of 150	0.7621	0.0317	0.0064	EXP 150 of 150	2.725698	0.026284	0.2737	EXP 150 of 150	63.8837	0.0282	0.9956	EXP 150 of 150	205.0028	0.0435	0.9970	EXP 150 of 150
14D01148	3.3 %	0.3249442	0.0013449	0.5497	EXP 150 of 150	0.9412	0.0265	0.0487	EXP 150 of 150	3.049512	0.026022	0.4176	EXP 150 of 150	73.0476	0.0324	0.9956	EXP 150 of 150	222.0731	0.0461	0.9973	EXP 150 of 150
14D01150	3.6 %	0.3258756	0.0013028	0.5823	EXP 149 of 150	1.0391	0.0302	0.0625	EXP 150 of 150	3.110662	0.025337	0.4024	EXP 150 of 150	77.0785	0.0286	0.9968	EXP 150 of 150	226.3201	0.0443	0.9978	EXP 150 of 150
14D01151	3.9 %	0.3282664	0.0012393	0.6568	EXP 150 of 150	1.0943	0.0325	0.0157	EXP 150 of 150	3.140723	0.026056	0.3239	EXP 150 of 150	81.0398	0.0293	0.9970	EXP 150 of 150	232.3732	0.0461	0.9977	EXP 150 of 150
14D01152	4.2 %	0.2079614	0.0010555	0.4309	EXP 150 of 150	0.7129	0.0300	0.0803	EXP 150 of 150	1.866736	0.029156	0.1849	EXP 150 of 150	48.4999	0.0280	0.9922	EXP 150 of 150	141.8346	0.0404	0.9914	EXP 150 of 150
14D01154	4.5 %	0.2464872	0.0011574	0.5020	EXP 150 of 150	0.9569	0.0281	0.0865	EXP 150 of 150	2.269467	0.027314	0.2369	EXP 150 of 150	60.8604	0.0294	0.9947	EXP 150 of 150	172.9984	0.0415	0.9958	EXP 150 of 150
14D01155	4.8 %	0.2676937	0.0011847	0.4360	EXP 150 of 150	1.0970	0.0321	0.0141	EXP 150 of 150	2.354911	0.028152	0.1410	EXP 150 of 150	66.7143	0.0317	0.9949	EXP 150 of 150	188.4662	0.0381	0.9973	EXP 150 of 150
14D01156	5.1 %	0.2325566	0.0012054	0.4014	EXP 150 of 150	1.0051	0.0330	0.0180	EXP 150 of 150	1.998541	0.028563	0.0864	EXP 150 of 150	56.9155	0.0301	0.9936	EXP 150 of 150	161.9561	0.0378	0.9957	EXP 150 of 150
14D01158	5.4 %	0.2735250	0.0011378	0.5120	EXP 150 of 150	1.4466	0.0320	0.1234	EXP 150 of 150	2.374019	0.028862	0.2621	EXP 150 of 150	68.8653	0.0279	0.9962	EXP 150 of 150	192.7128	0.0436	0.9968	EXP 150 of 150
14D01159	5.7 %	0.2256775	0.0010190	0.4020	EXP 150 of 150	1.1198	0.0303	0.0155	EXP 150 of 150	1.789107	0.029956	0.0503	EXP 150 of 150	54.0012	0.0298	0.9930	EXP 150 of 150	153.7451	0.0380	0.9951	EXP 150 of 150
14D01160	6.1 %	0.2605322	0.0011939	0.4651	EXP 150 of 150	1.5102	0.0297	0.0650	EXP 150 of 150	2.128732	0.029836	0.1516	EXP 150 of 150	63.9663	0.0312	0.9945	EXP 150 of 150	178.8216	0.0395	0.9968	EXP 150 of 150
14D01162	6.5 %	0.2369263	0.0011256	0.4739	EXP 149 of 150	1.5164	0.0299	0.2337	EXP 150 of 150	1.918295	0.028746	0.1830	EXP 150 of 150	56.6525	0.0295	0.9939	EXP 150 of 150	159.8659	0.0416	0.9952	EXP 150 of 150
14D01163	6.9 %	0.2504847	0.0011722	0.4541	EXP 150 of 150	1.7264	0.0339	0.1169	EXP 150 of 150	1.914424	0.027299	0.1402	EXP 149 of 150	59.1549	0.0316	0.9933	EXP 150 of 150	167.1758	0.0416	0.9958	EXP 150 of 150
14D01164	7.3 %	0.2622766	0.0012318	0.4953	EXP 150 of 150	1.9446	0.0297	0.1654	EXP 150 of 150	1.957044	0.028811	0.1607	EXP 150 of 150	61.7523	0.0333	0.9933	EXP 150 of 150	172.0096	0.0373	0.9969	EXP 150 of 150
14D01166	7.8 %	0.2416735	0.0011759	0.4160	EXP 150 of 150	1.9244	0.0361	0.0919	EXP 150 of 150	1.795400	0.023284	0.2141	EXP 149 of 150	57.3198	0.0294	0.9939	EXP 150 of 150	158.8715	0.0385	0.9959	EXP 150 of 150
14D01167	8.3 %	0.2618889	0.0012214	0.4507	EXP 150 of 150	2.2675	0.0341	0.1331	EXP 150 of 150	1.935817	0.028205	0.1978	EXP 150 of 150	62.3184	0.0299	0.9946	EXP 150 of 150	170.8399	0.0387	0.9967	EXP 150 of 150
14D01168	8.8 %	0.2427504	0.0011431	0.4398	EXP 150 of 150	2.0698	0.0308	0.0797	EXP 150 of 150	1.689927	0.029867	0.1057	EXP 150 of 150	56.1565	0.0293	0.9938	EXP 150 of 150	155.2467	0.0372	0.9959	EXP 150 of 150
14D01170	9.3 %	0.2586585	0.0011715	0.5436	EXP 149 of 150	2.1223	0.0274	0.1467	EXP 150 of 150	1.541268	0.024514	0.0287	EXP 150 of 150	53.9269	0.0292	0.9932	EXP 150 of 150	154.8145	0.0396	0.9954	EXP 150 of 150
14D01171	9.9 %	0.2188762	0.0010957	0.4026	EXP 150 of 150	1.9853	0.0275	0.1480	EXP 150 of 150	1.411954	0.027603	0.0390	EXP 150 of 150	48.9720	0.0318	0.9904	EXP 150 of 150	133.3928	0.0406	0.9922	EXP 150 of 150
14D01172	10.5 %	0.2111706	0.0010130	0.5057	EXP 150 of 150	2.0196	0.0303	0.1826	EXP 150 of 150	1.382650	0.025964	0.1530	EXP 150 of 150	46.6156	0.0299	0.9907	EXP 150 of 150	125.6644	0.0350	0.9928	EXP 150 of 150
14D01174	11.2 %	0.1941334	0.0011399	0.2504	EXP 150 of 150	2.0158	0.0299	0.2112	EXP 150 of 150	1.270610	0.027763	0.1335	EXP 150 of 150	44.2362	0.0292	0.9899	EXP 150 of 150	115.2061	0.0314	0.9921	EXP 150 of 150
14D01175	11.9 %	0.1973296	0.0009420	0.3625	EXP 150 of 150	1.9352	0.0317	0.1318	EXP 150 of 150	1.173709	0.030086	0.0980	EXP 150 of 150	40.6278	0.0289	0.9883	EXP 150 of 150	109.3441	0.0353	0.9886	EXP 150 of 150
14D01176	12.8 %	0.1724778	0.0009313	0.2727	EXP 150 of 150	1.8478	0.0285	0.1284	EXP 150 of 150	0.981820	0.027811	0.0128	EXP 150 of 150	38.2289	0.0273	0.9886	EXP 150 of 150	95.2189	0.0346	0.9798	EXP 150 of 150
14D01178	13.9 %	0.1615898	0.0008526	0.3038	EXP 150 of 150	1.9610	0.0321	0.1105	EXP 150 of 150	1.037805	0.024174	0.1548	EXP 150 of 150	38.8412	0.0281	0.9880	EXP 150 of 150	87.1899	0.0382	0.9667	EXP 150 of 150
14D01179	15.2 %	0.1511215	0.0008832	0.2840	EXP 150 of 150	2.0257	0.0347	0.1043	EXP 150 of 150	0.978333	0.026038	0.1328	EXP 149 of 150	37.1413	0.0263	0.9885	EXP 150 of 150	77.5642	0.0367	0.9343	EXP 150 of 150
14D01180	16.7 %	0.1426228	0.0008956	0.2205	EXP 150 of 150	2.1265	0.0322	0.1381	EXP 150 of 150	0.937226	0.025600	0.1087	EXP 150 of 150	37.2593	0.0273	0.9879	EXP 150 of 150	71.6503	0.0320	0.9198	EXP 150 of 150
14D01182	18.2 %	0.2048474	0.0010384	0.4414	EXP 149 of 150	2.4613	0.0315	0.1872	EXP 150 of 150	1.040739	0.022916	0.1099	EXP 150 of 150	39.3603	0.0285	0.9882	EXP 150 of 150	90.0170	0.0343	0.9773	EXP 150 of 150
14D01183	19.7 %	0.2267520	0.0010154	0.5085	EXP 150 of 150	2.9679	0.0313	0.2557	EXP 150 of 150	1.305674	0.027632	0.1884	EXP 150 of 150	45.4356	0.0303	0.9898	EXP 150 of 150	101.9625	0.0343	0.9868	EXP 150 of 150
14D01185	21.2 %	0.2840392	0.0011418	0.5986	EXP 150 of 150	3.4502	0.0309	0.2195	EXP 150 of 150	1.461049	0.025977	0.0852	EXP 150 of 150	50.5584	0.0325	0.9906	EXP 150 of 150	123.6724	0.0345	0.9938	EXP 150 of 150

Irradiation Constants	40/36(a)		40/36(c)		38/36(a)		38/36(c)		39/37(ca)		38/37(ca)		36/37(ca)		40/39(k)		38/39(k)		36/38(cl)		K/Ca		K/Cl		Ca/Cl		
	%	%1σ	%	%1σ	%	%1σ	%	%1σ	%	%1σ	%	%1σ	%	%1σ	%	%1σ	%	%1σ	%	%1σ	%	%1σ	%	%1σ	%	%1σ	
14D01140	1.8 %	295.5	0	0.018	35	0.1869	0	1.493	3	0.000673	0	0.000139	0	0.000264	0	0.00101	0	0.01138	0	0	0	0.43	0	0	0	0	0
14D01142	2.0 %	295.5	0	0.018	35	0.1869	0	1.493	3	0.000673	0	0.000139	0	0.000264	0	0.00101	0	0.01138	0	0	0	0.43	0	0	0	0	0
14D01143	2.2 %	295.5	0	0.018	35	0.1869	0	1.493	3	0.000673	0	0.000139	0	0.000264	0	0.00101	0	0.01138	0	0	0	0.43	0	0	0	0	0
14D01144	2.4 %	295.5	0	0.018	35	0.1869	0	1.493	3	0.000673	0	0.000139	0	0.000264	0	0.00101	0	0.01138	0	0	0	0.43	0	0	0	0	0
14D01146	2.7 %	295.5	0	0.018	35	0.1869	0	1.493	3	0.000673	0	0.000139	0	0.000264	0	0.00101	0	0.01138	0	0	0	0.43	0	0	0	0	0
14D01147	3.0 %	295.5	0	0.018	35	0.1869	0	1.493	3	0.000673	0	0.000139	0	0.000264	0	0.00101	0	0.01138	0	0	0	0.43	0	0	0	0	0
14D01148	3.3 %	295.5	0	0.018	35	0.1869	0	1.493	3	0.000673	0	0.000139	0	0.000264	0	0.00101	0	0.01138	0	0	0	0.43	0	0	0	0	0
14D01150	3.6 %	295.5	0	0.018	35	0.1869	0	1.493	3	0.000673	0	0.000139	0	0.000264	0	0.00101	0	0.01138	0	0	0	0.43	0	0	0	0	0
14D01151	3.9 %	295.5	0	0.018	35	0.1869	0	1.493	3	0.000673	0	0.000139	0	0.000264	0	0.00101	0	0.01138	0	0	0	0.43	0	0	0	0	0
14D01152	4.2 %	295.5	0	0.018	35	0.1869	0	1.493	3	0.000673	0	0.000139	0	0.000264	0	0.00101	0	0.01138	0	0	0	0.43	0	0	0	0	0
14D01154	4.5 %	295.5	0	0.018	35	0.1869	0	1.493	3	0.000673	0	0.000139	0	0.000264	0	0.00101	0	0.01138	0	0	0	0.43	0	0	0	0	0
14D01155	4.8 %	295.5	0	0.018	35	0.1869	0	1.493	3	0.000673	0	0.000139	0	0.000264	0	0.00101	0	0.01138	0	0	0	0.43	0	0	0	0	0
14D01156	5.1 %	295.5	0	0.018	35	0.1869	0	1.493	3	0.000673	0	0.000139	0	0.000264	0	0.00101	0	0.01138	0	0	0	0.43	0	0	0	0	0
14D01158	5.4 %	295.5	0	0.018	35	0.1869	0	1.493	3	0.000673	0	0.000139	0	0.000264	0	0.00101	0	0.01138	0	0	0	0.43	0	0	0	0	0
14D01159	5.7 %	295.5	0	0.018	35	0.1869	0	1.493	3	0.000673	0	0.000139	0	0.000264	0	0.00101	0	0.01138	0	0	0	0.43	0	0	0	0	0
14D01160	6.1 %	295.5	0	0.018	35	0.1869	0	1.493	3	0.000673	0	0.000139	0	0.000264	0	0.00101	0	0.01138	0	0	0	0.43	0	0	0	0	0
14D01162	6.5 %	295.5	0	0.018	35	0.1869	0	1.493	3	0.000673	0	0.000139	0	0.000264	0	0.00101	0	0.01138	0	0	0	0.43	0	0	0	0	0
14D01163	6.9 %	295.5	0	0.018	35	0.1869	0	1.493	3	0.000673	0	0.000139	0	0.000264	0	0.00101	0	0.01138	0	0	0	0.43	0	0	0	0	0
14D01164	7.3 %	295.5	0	0.018	35	0.1869	0	1.493	3	0.000673	0	0.000139	0	0.000264	0	0.00101	0	0.01138	0	0	0	0.43	0	0	0	0	0
14D01166	7.8 %	295.5	0	0.018	35	0.1869	0	1.493	3	0.000673	0	0.000139	0	0.000264	0	0.00101	0	0.01138	0	0	0	0.43	0	0	0	0	0
14D01167	8.3 %	295.5	0	0.018	35	0.1869	0	1.493	3	0.000673	0	0.000139	0	0.000264	0	0.00101	0	0.01138	0	0	0	0.43	0	0	0	0	0
14D01168	8.8 %	295.5	0	0.018	35	0.1869	0	1.493	3	0.000673	0	0.000139	0	0.000264	0	0.00101	0	0.01138	0	0	0	0.43	0	0	0	0	0
14D01170	9.3 %	295.5	0	0.018	35	0.1869	0	1.493	3	0.000673	0	0.000139	0	0.000264	0	0.00101	0	0.01138	0	0	0	0.43	0	0	0	0	0
14D01171	9.9 %	295.5	0	0.018	35	0.1869	0	1.493	3	0.000673	0	0.000139	0	0.000264	0	0.00101	0	0.01138	0	0	0	0.43	0	0	0	0	0
14D01172	10.5 %	295.5	0	0.018	35	0.1869	0	1.493	3	0.000673	0	0.000139	0	0.000264	0	0.00101	0	0.01138	0	0	0	0.43	0	0	0	0	0
14D01174	11.2 %	295.5	0	0.018	35	0.1869	0	1.493	3	0.000673	0	0.000139	0	0.000264	0	0.00101	0	0.01138	0	0	0	0.43	0	0	0	0	0
14D01175	11.9 %	295.5	0	0.018	35	0.1869	0	1.493	3	0.000673	0	0.000139	0	0.000264	0	0.00101	0	0.01138	0	0	0	0.43	0	0	0	0	0
14D01176	12.8 %	295.5	0	0.018	35	0.1869	0	1.493	3	0.000673	0	0.000139	0	0.000264	0	0.00101	0	0.01138	0	0	0	0.43	0	0	0	0	0
14D01178	13.9 %	295.5	0	0.018	35	0.1869	0	1.493	3	0.000673	0	0.000139	0	0.000264	0	0.00101	0	0.01138	0	0	0	0.43	0	0	0	0	0
14D01179	15.2 %	295.5	0	0.018	35	0.1869	0	1.493	3	0.000673	0	0.000139	0	0.000264	0	0.00101	0	0.01138	0	0	0	0.43	0	0	0	0	0
14D01180	16.7 %	295.5	0	0.018	35	0.1869	0	1.493	3	0.000673	0	0.000139	0	0.000264	0	0.00101	0	0.01138	0	0	0	0.43	0	0	0	0	0
14D01182	18.2 %	295.5	0	0.018	35	0.1869	0	1.493	3	0.000673	0	0.000139	0	0.000264	0	0.00101	0	0.01138	0	0	0	0.43	0	0	0	0	0
14D01183	19.7 %	295.5	0	0.018	35	0.1869	0	1.493	3	0.000673	0	0.000139	0	0.000264	0	0.00101	0	0.01138	0	0	0	0.43	0	0	0	0	0
14D01185	21.2 %	295.5	0	0.018	35	0.1869	0	1.493	3	0.000673	0	0.000139	0	0.000264	0	0.00101	0	0.01138	0	0	0	0.43	0	0	0	0	0

14D01139.AGE >>> CANARY ISLANDS 2 >>> CANARY ISLANDS | MECO (13-16) PROJECT



Ar-Ages in Ma

WEIGHTED PLATEAU
4.80 ± 0.03

TOTAL FUSION
4.53 ± 0.02

NORMAL ISOCHRON
3.95 ± 0.84

INVERSE ISOCHRON
3.96 ± 0.75

MSWD (PROBABILITY)
1.43 (17%)

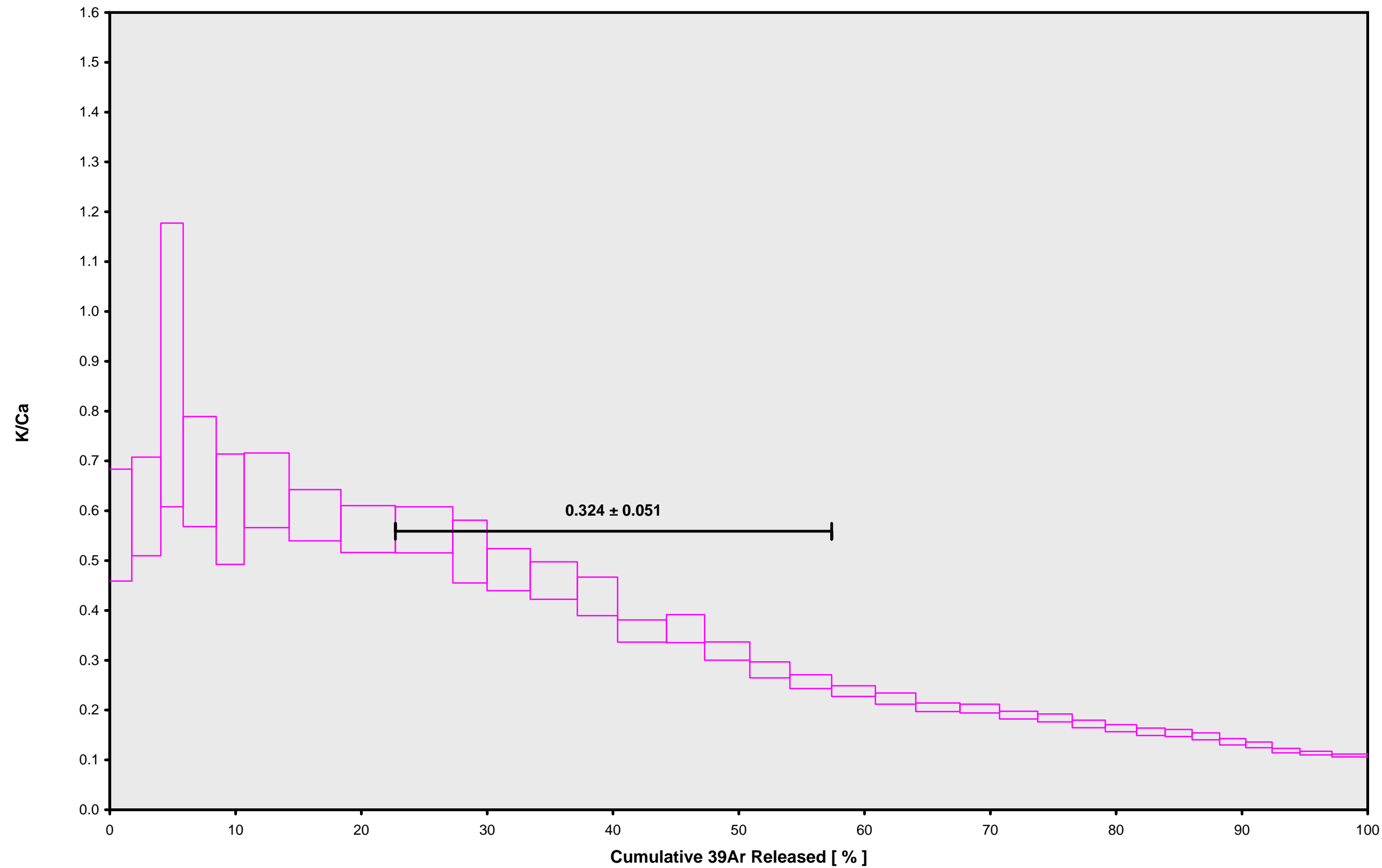
Sample Info

Groundmass
Grand Canaria, Tamaraceite
Dan Miggins

IRR = 13-OSU-05
J = 0.00160830 ± 0.00000405

RECALIBRATED AGE

14D01139.AGE >>> CANARY ISLANDS 2 >>> CANARY ISLANDS | MECO (13-16) PROJECT



Ar-Ages in Ma

WEIGHTED PLATEAU
4.80 ± 0.03

TOTAL FUSION
4.53 ± 0.02

NORMAL ISOCHRON
3.95 ± 0.84

INVERSE ISOCHRON
3.96 ± 0.75

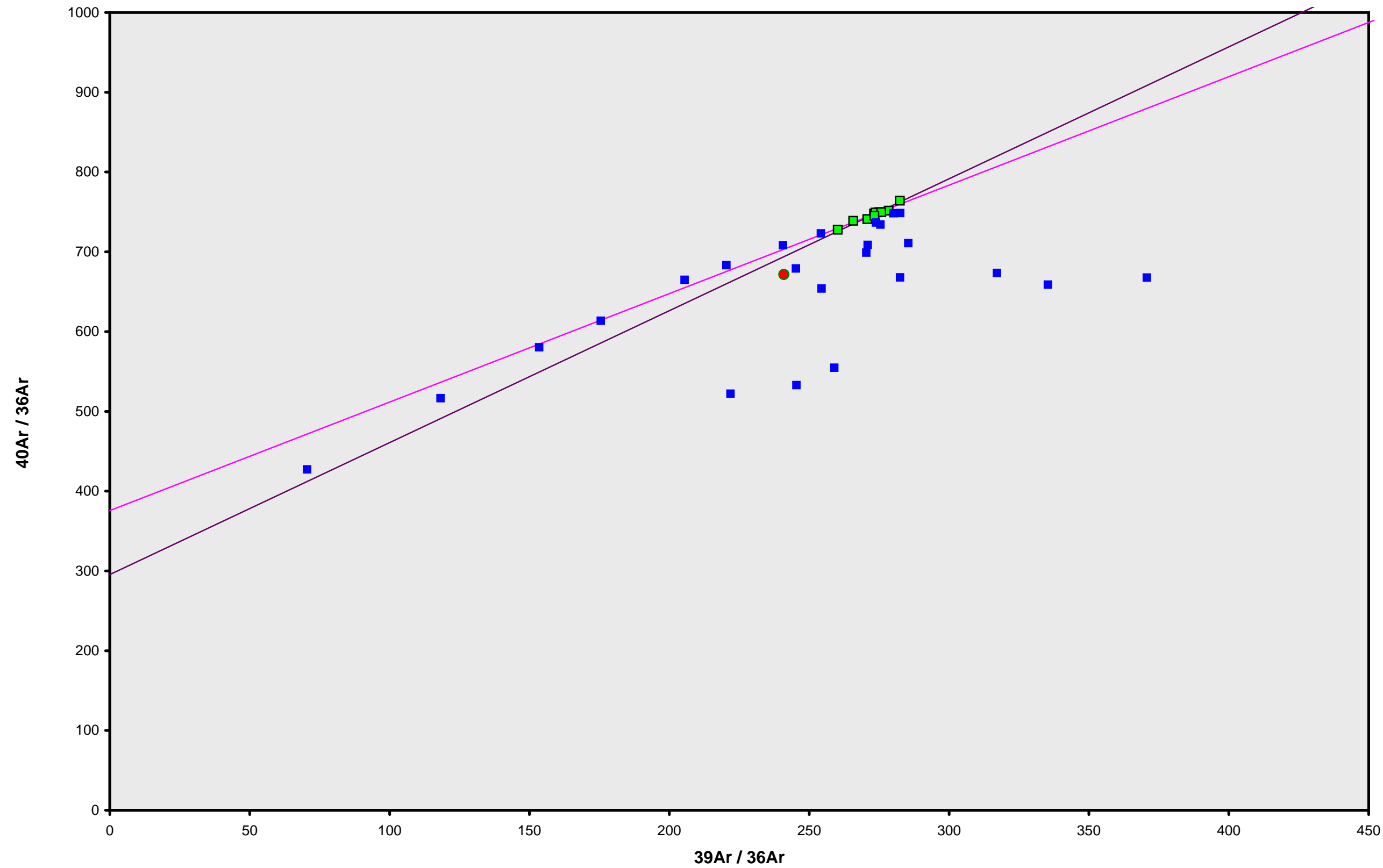
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Ar-Ages in Ma

WEIGHTED PLATEAU
4.80 ± 0.03

TOTAL FUSION
4.53 ± 0.02

NORMAL ISOCHRON
3.95 ± 0.84

INVERSE ISOCHRON
3.96 ± 0.75

MSWD (PROBABILITY)
0.87 (54%)

40AR/36AR INTERCEPT
375.6 ± 78.8

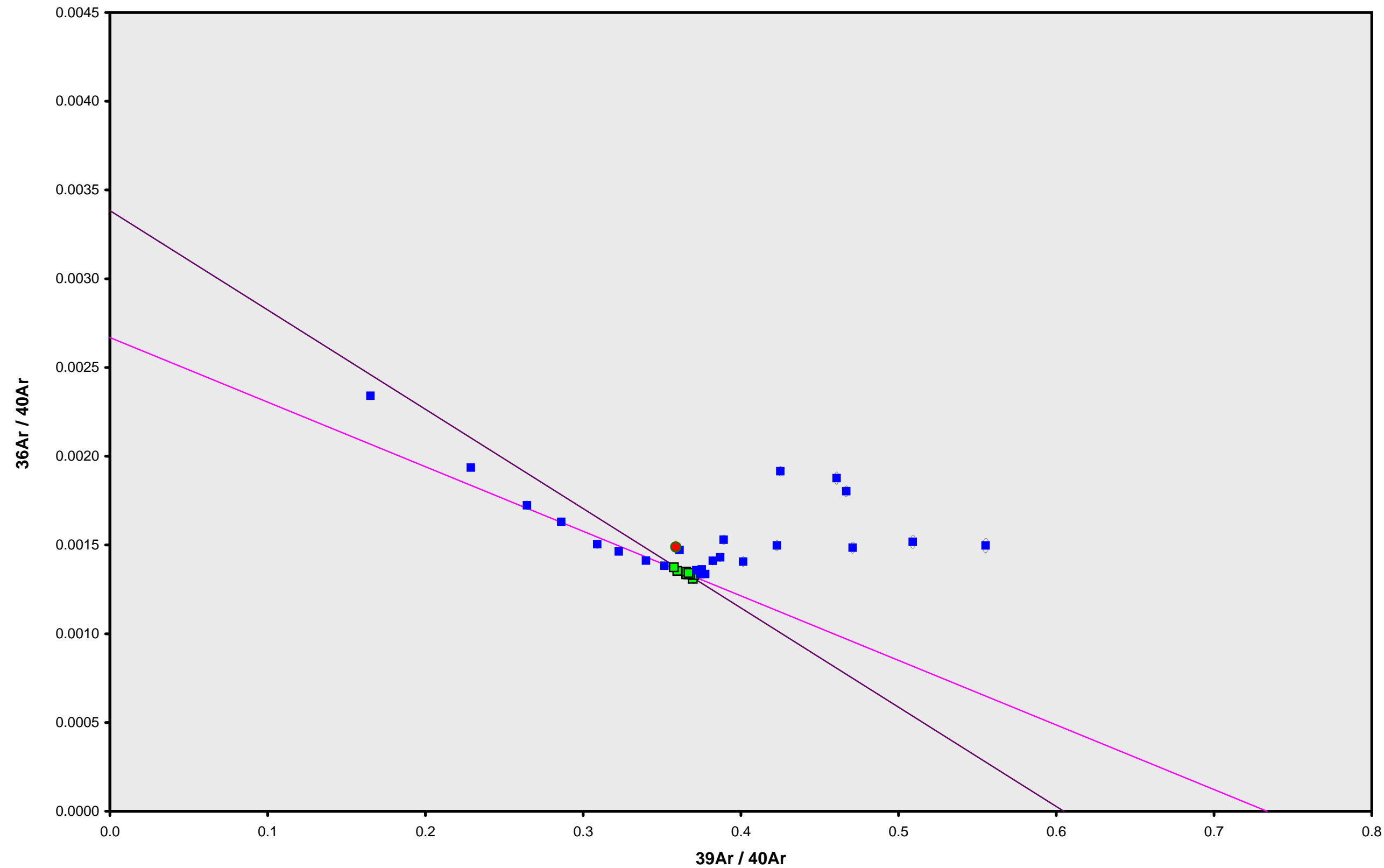
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RECALIBRATED AGE

14D01139.AGE >>> CANARY ISLANDS 2 >>> CANARY ISLANDS | MECO (13-16) PROJECT



Ar-Ages in Ma

WEIGHTED PLATEAU
4.80 ± 0.03

TOTAL FUSION
4.53 ± 0.02

NORMAL ISOCHRON
3.95 ± 0.84

INVERSE ISOCHRON
3.96 ± 0.75

MSWD (PROBABILITY)
0.88 (53%)

SPREADING FACTOR
1.8%

40AR/36AR INTERCEPT
374.8 ± 81.3

Sample Info

Groundmass
Grand Canaria, Tamaraceite
Dan Miggins

IRR = 13-OSU-05
J = 0.00160830 ± 0.00000405

RECALIBRATED AGE