Relative Abundances			36Ar [fA]	%1σ	37Ar [fA]	%1σ	38Ar [fA]	%1σ	39Ar [fA]	%1σ	40Ar [fA]	%1σ	40(r)/39(k) ± 2σ	Age ± 2σ (ka)	40Ar(r) (%)	39Ar(k) (%)	K/Ca ± 2σ
14D32304	1.8 %		2.6101258	0.328	90.1080	0.674	33.46176	0.199	247.0952	0.074	849.3856	0.016	0.34995 ± 0.02053	1090.1 ± 63.9	10.18	9.50	1.179 ± 0.016
14D32305	1.9 %		0.7110203	0.403	92.1854	0.672	35.05499	0.201	264.6638	0.074	268.0090	0.044	0.25130 ± 0.00649	782.8 ± 20.2	24.81	10.18	1.234 ± 0.017
14D32306	2.0 %		0.2680757	0.621	75.5082	0.772	28.44618	0.212	216.9360	0.075	120.8137	0.098	0.22419 ± 0.00470	698.4 ± 14.6	40.25	8.34	1.235 ± 0.019
14D32308	2.1 %	✓	0.1253502	0.877	56.3608	1.004	21.24755	0.269	163.6054	0.077	66.1142	0.172	0.20980 ± 0.00426	653.6 ± 13.3	51.91	6.29	1.248 ± 0.025
14D32309	2.2 %	✓	0.0744535	1.308	44.3007	1.203	16.23312	0.317	124.9424	0.080	44.1133	0.259	0.20987 ± 0.00502	653.8 ± 15.6	59.43	4.80	1.212 ± 0.029
14D32310	2.3 %	✓	0.0556382	1.625	38.1649	1.425	13.99707	0.361	108.9885	0.083	35.5665	0.318	0.20795 ± 0.00539	647.8 ± 16.8	63.71	4.19	1.228 ± 0.035
14D32312	2.4 %	✓	0.0678867	1.442	50.6313	1.095	18.08049	0.289	142.3492	0.079	44.8076	0.253	0.20668 ± 0.00442	643.9 ± 13.8	65.64	5.47	1.209 ± 0.027
14D32313	2.5 %	✓	0.0516513	1.776	38.2870	1.344	13.34843	0.394	104.7727	0.083	33.0701	0.343	0.20357 ± 0.00567	634.2 ± 17.7	64.48	4.03	1.176 ± 0.032
14D32314	2.6 %	✓	0.0368396	2.311	27.2114	1.952	9.42648	0.534	74.2842	0.091	23.7109	0.481	0.20630 ± 0.00753	642.7 ± 23.5	64.62	2.86	1.174 ± 0.046
14D32316	2.8 %	✓	0.0387731	2.161	27.3028	1.951	9.40626	0.503	75.3087	0.089	24.4747	0.461	0.20611 ± 0.00732	642.1 ± 22.8	63.40	2.90	1.186 ± 0.046
14D32317	3.0 %	✓	0.0473516	1.830	31.6906	1.742	10.15632	0.487	82.9209	0.088	27.9000	0.407	0.20238 ± 0.00685	630.5 ± 21.3	60.13	3.19	1.125 ± 0.039
14D32318	3.2 %	✓	0.0458355	1.793	28.3228	1.880	9.02662	0.515	74.8009	0.091	26.2985	0.431	0.20480 ± 0.00726	638.0 ± 22.6	58.24	2.88	1.135 ± 0.043
14D32320	3.5 %	✓	0.0605079	1.591	32.9792	1.637	10.11110	0.466	85.6955	0.089	32.2592	0.353	0.20243 ± 0.00723	630.6 ± 22.5	53.76	3.30	1.117 ± 0.037
14D32321	3.8 %	✓	0.0394666	2.042	20.8431	2.482	5.99113	0.769	52.3299	0.105	21.0864	0.534	0.21560 ± 0.01020	671.6 ± 31.8	53.49	2.01	1.079 ± 0.054
14D32322	4.1 %	✓	0.0562584	1.624	26.1785	2.068	7.24286	0.635	67.2547	0.092	28.4278	0.400	0.20995 ± 0.00881	654.0 ± 27.4	49.66	2.59	1.104 ± 0.046
14D32324	4.4 %	✓	0.0382405	2.125	15.9750	3.186	4.23154	1.084	41.3158	0.116	18.5491	0.607	0.20942 ± 0.01299	652.4 ± 40.5	46.63	1.59	1.112 ± 0.071
14D32325	4.7 %	✓	0.0475112	1.802	16.6324	3.134	4.58635	1.019	48.8480	0.109	22.4532	0.505	0.20215 ± 0.01149	629.8 ± 35.8	43.97	1.88	1.263 ± 0.079
14D32326	5.2 %	✓	0.3628322	0.516	13.7341	3.793	3.68681	1.231	40.0065	0.119	113.0772	0.103	0.17643 ± 0.02835	549.7 ± 88.3	6.24	1.54	1.252 ± 0.095
14D32328	5.7 %	✓	0.0392297	2.111	14.0227	3.769	3.65834	1.210	44.5317	0.116	19.4314	0.579	0.20333 ± 0.01225	633.4 ± 38.1	46.59	1.71	1.365 ± 0.103
14D32329	6.2 %		0.0413658	2.074	14.6972	3.568	3.62062	1.278	47.9262	0.107	20.0712	0.562	0.19005 ± 0.01172	592.1 ± 36.5	45.37	1.84	1.402 ± 0.100
14D32330	6.8 %		0.0397279	2.136	15.3231	3.460	3.43835	1.301	48.3052	0.111	19.5097	0.574	0.18775 ± 0.01151	584.9 ± 35.8	46.48	1.86	1.355 ± 0.094
14D32332	7.4 %		0.0379265	2.218	13.7675	3.810	2.97414	1.566	42.1866	0.119	17.1972	0.655	0.16956 ± 0.01309	528.2 ± 40.8	41.59	1.62	1.317 ± 0.100
14D32333	8.1 %		0.0440642	1.930	15.6107	3.332	3.21047	1.437	42.2326	0.115	17.9371	0.631	0.14764 ± 0.01320	460.0 ± 41.1	34.75	1.62	1.163 ± 0.078
14D32334	9.0 %		0.0474609	1.762	17.0977	2.984	3.16580	1.390	38.9555	0.130	18.4663	0.613	0.15094 ± 0.01412	470.2 ± 44.0	31.83	1.50	0.979 ± 0.059
14D32336	9.9 %		0.0555316	1.607	23.6013	2.159	3.71837	1.245	36.6549	0.131	18.9516	0.596	0.12333 ± 0.01581	384.2 ± 49.3	23.84	1.41	0.668 ± 0.029
14D32337	10.9 %		0.0576494	1.689	27.6668	1.896	3.64604	1.280	32.3210	0.138	18.6117	0.608	0.11991 ± 0.01931	373.6 ± 60.2	20.81	1.24	0.502 ± 0.019
14D32338	12.1 %		0.0767880	1.347	47.4738	1.147	4.85782	0.948	37.1922	0.129	23.0979	0.489	0.11584 ± 0.01770	360.9 ± 55.1	18.64	1.43	0.337 ± 0.008
14D32340	13.5 %		0.0945963	1.085	71.4022	0.840	5.20125	0.900	38.4984	0.125	25.8487	0.437	0.09560 ± 0.01701	297.8 ± 53.0	14.22	1.48	0.232 ± 0.004
14D32341	15.5 %		0.1513292	0.841	147.4535	0.522	6.56622	0.739	48.7529	0.109	36.7351	0.306	0.07780 ± 0.01633	242.4 ± 50.9	10.30	1.87	0.142 ± 0.002
14D32342	17.6 %		0.2124579	0.673	288.3799	0.421	5.35225	0.837	47.8478	0.114	43.6248	0.262	0.07435 ± 0.01879	231.6 ± 58.5	8.12	1.83	0.071 ± 0.001
14D32344	19.8 %		0.2374123	0.626	376.0909	0.406	3.31918	1.383	35.9456	0.131	44.5424	0.254	0.10763 ± 0.02628	335.3 ± 81.9	8.62	1.37	0.041 ± 0.000
14D32345	22.1 %		0.2254946	0.642	378.5904	0.406	2.21184	2.104	25.0195	0.168	39.2566	0.287	0.09014 ± 0.03700	280.8 ± 115.3	5.69	0.95	0.028 ± 0.000
14D32346	24.5 %		0.1953155	0.669	392.5685	0.402	1.63240	2.833	19.0809	0.204	30.1210	0.375	0.16392 ± 0.04474	510.7 ± 139.4	10.24	0.72	0.021 ± 0.000
		Σ	6.2941678	0.172	2570.1627	0.163	310.30814	0.092	2601.5691	0.018	2193.5195	0.030					

Information on Analysis and Constants Used in Calculations

Project = **MULLIONS (13-INT-09)**
Sample = **RR1310-D42-68**
Material = **Groundmass**
Location = **Lau Basin**
Region = **South Pacific**
Analyst = **Chris Conatser**
Irradiation = **14-OSU-04 (4C7-14)**
Position = **X: 0 | Y: 0 | Z/H: 15.69 mm**
FCT-NM Age = **28.201 ± 0.023 Ma**
FCT-NM Reference = **Kuiper et al (2008)**
FCT-NM 40Ar/39Ar Ratio = **9.12182 ± 0.01186**
FCT-NM J-value = **0.00172305 ± 0.00000224**
Air Shot 40Ar/36Ar = **303.5620 ± 0.5252**
Air Shot MDF = **0.99335192 ± 0.00071500 (LIN)**
Experiment Type = **Incremental Heating**
Extraction Method = **Bulk Laser Heating**
Heating = **77 sec**
Isolation = **6.00 min**
Instrument = **ARGUS-VI-D**
Preferred Age = **Plateau Age**
Age Classification = **Eruption Age**
IGSN = **IEKK1-RR1310-D42-68**
Rock Class = **Igneous>Volcanic>Mafic**
Lithology = **Basalt**
Lat-Lon = **14°40.7'S - 173°52.5'W**

Age Equations = **Min et al. (2000)**
Negative Intensities = **Allowed**
Collector Calibrations = **40Ar 36Ar**
Decay 40K = **5.530 ± 0.048 E-10 1/a**
Decay 39Ar = **2.940 ± 0.016 E-07 1/h**
Decay 37Ar = **8.230 ± 0.012 E-04 1/h**
Decay 36Cl = **2.257 ± 0.015 E-06 1/a**
Decay 40K(EC,β⁺) = **0.580 ± 0.009 E-10 1/a**
Decay 40K(β⁻) = **4.950 ± 0.043 E-10 1/a**
Atmospheric 40/36(a) = **295.50**
Atmospheric 38/36(a) = **0.1869**
Production 39/37(ca) = **0.0006730**
Production 38/37(ca) = **0.0000139**
Production 36/37(ca) = **0.0002640**
Production 40/39(k) = **0.001010**
Production 38/39(k) = **0.011380**
Production 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 (ka)	MSWD	39Ar(k) (%,n)	K/Ca ± 2σ
Age Plateau		0.20688 ± 0.00183 ± 0.89%	**644.5 ± 5.9 ± 0.92%**	1.18 28%	51.22 16	1.187 ± 0.028
		Full External Error ± 15.7		1.73	2σ Confidence Limit	
		Analytical Error ± 5.7		1.0851	Error Magnification	
Total Fusion Age		0.21005 ± 0.00252 ± 1.20%	**654.4 ± 8.0 ± 1.23%**		33	0.435 ± 0.001
		Full External Error ± 16.8				
		Analytical Error ± 7.9				
Normal Isochron	**292.64 ± 3.25 ± 1.11%**	0.20824 ± 0.00242 ± 1.16%	**648.7 ± 7.7 ± 1.19%**	1.03 42%	51.22 16	
		Full External Error ± 16.6		1.76	2σ Confidence Limit	
		Analytical Error ± 7.5		1.0160	Error Magnification	
				17	Number of Iterations	
				0.0000020146	Convergence	
Inverse Isochron	**292.65 ± 3.27 ± 1.12%**	0.20841 ± 0.00243 ± 1.17%	**649.2 ± 7.8 ± 1.20%**	1.04 41%	51.22 16	
		Full External Error ± 16.6		1.76	2σ Confidence Limit	
		Analytical Error ± 7.6		1.0198	Error Magnification	
				3	Number of Iterations	
				0.0006366024	Convergence	
				59%	Spreading Factor	

Notes
A reliable plateau with low and high temp recoil effects.

Incremental Heating			36Ar(a) [fA]	37Ar(ca) [fA]	38Ar(cl) [fA]	39Ar(k) [fA]	40Ar(r) [fA]	Age ± 2σ (ka)	40Ar(r) (%)	39Ar(k) (%)	K/Ca ± 2σ
14D32304	1.8 %		2.5810043	90.1080	30.16686	247.0346	86.44935	1090.1 ± 63.9	10.18	9.50	1.179 ± 0.016
14D32305	1.9 %		0.6810408	92.1854	31.91525	264.6018	66.49423	782.8 ± 20.2	24.81	10.18	1.234 ± 0.017
14D32306	2.0 %		0.2435566	75.5082	25.93146	216.8852	48.62369	698.4 ± 14.6	40.25	8.34	1.235 ± 0.019
14D32308	2.1 %	✓	0.1070464	56.3608	19.36537	163.5675	34.31684	653.6 ± 13.3	51.91	6.29	1.248 ± 0.025
14D32309	2.2 %	✓	0.0601407	44.3007	14.79976	124.9126	26.21551	653.8 ± 15.6	59.43	4.80	1.212 ± 0.029
14D32310	2.3 %	✓	0.0433078	38.1649	12.74845	108.9628	22.65894	647.8 ± 16.8	63.71	4.19	1.228 ± 0.035
14D32312	2.4 %	✓	0.0516100	50.6313	16.45059	142.3151	29.41308	643.9 ± 13.8	65.64	5.47	1.209 ± 0.027
14D32313	2.5 %	✓	0.0393943	38.2870	12.14851	104.7469	21.32326	634.2 ± 17.7	64.48	4.03	1.176 ± 0.032
14D32314	2.6 %	✓	0.0281385	27.2114	8.57569	74.2659	15.32097	642.7 ± 23.5	64.62	2.86	1.174 ± 0.046
14D32316	2.8 %	✓	0.0300533	27.3028	8.54346	75.2903	15.51791	642.1 ± 22.8	63.40	2.90	1.186 ± 0.046
14D32317	3.0 %	✓	0.0373563	31.6906	9.20550	82.8996	16.77746	630.5 ± 21.3	60.13	3.19	1.125 ± 0.039
14D32318	3.2 %	✓	0.0369126	28.3228	8.16831	74.7818	15.31527	638.0 ± 22.6	58.24	2.88	1.135 ± 0.043
14D32320	3.5 %	✓	0.0501860	32.9792	9.12630	85.6733	17.34273	630.6 ± 22.5	53.76	3.30	1.117 ± 0.037
14D32321	3.8 %	✓	0.0330100	20.8431	5.38932	52.3158	11.27910	671.6 ± 31.8	53.49	2.01	1.079 ± 0.054
14D32322	4.1 %	✓	0.0482021	26.1785	6.46833	67.2371	14.11612	654.0 ± 27.4	49.66	2.59	1.104 ± 0.046
14D32324	4.4 %	✓	0.0333582	15.9750	3.75503	41.3050	8.65002	652.4 ± 40.5	46.63	1.59	1.112 ± 0.071
14D32325	4.7 %	✓	0.0424079	16.6324	4.02243	48.8368	9.87236	629.8 ± 35.8	43.97	1.88	1.263 ± 0.079
14D32326	5.2 %	✓	0.3586460	13.7341	3.16442	39.9972	7.05687	549.7 ± 88.3	6.24	1.54	1.252 ± 0.095
14D32328	5.7 %	✓	0.0349706	14.0227	3.14494	44.5222	9.05259	633.4 ± 38.1	46.59	1.71	1.365 ± 0.103
14D32329	6.2 %		0.0369423	14.6972	3.06823	47.9163	9.10636	592.1 ± 36.5	45.37	1.84	1.402 ± 0.100
14D32330	6.8 %		0.0351720	15.3231	2.88196	48.2949	9.06754	584.9 ± 35.8	46.48	1.86	1.355 ± 0.094
14D32332	7.4 %		0.0338511	13.7675	2.48765	42.1773	7.15157	528.2 ± 40.8	41.59	1.62	1.317 ± 0.100
14D32333	8.1 %		0.0394606	15.6107	2.72239	42.2221	6.23383	460.0 ± 41.1	34.75	1.62	1.163 ± 0.078
14D32334	9.0 %		0.0424660	17.0977	2.71444	38.9440	5.87822	470.2 ± 44.0	31.83	1.50	0.979 ± 0.059
14D32336	9.9 %		0.0487174	23.6013	3.29198	36.6390	4.51857	384.2 ± 49.3	23.84	1.41	0.668 ± 0.029
14D32337	10.9 %		0.0497660	27.6668	3.26875	32.3024	3.87326	373.6 ± 60.2	20.81	1.24	0.502 ± 0.019
14D32338	12.1 %		0.0634710	47.4738	4.42242	37.1602	4.30469	360.9 ± 55.1	18.64	1.43	0.337 ± 0.008
14D32340	13.5 %		0.0749043	71.4022	4.74870	38.4503	3.67570	297.8 ± 53.0	14.22	1.48	0.232 ± 0.004
14D32341	15.5 %		0.1113394	147.4535	5.98968	48.6537	3.78517	242.4 ± 50.9	10.30	1.87	0.142 ± 0.002
14D32342	17.6 %		0.1354780	288.3799	4.78062	47.6537	3.54298	231.6 ± 58.5	8.12	1.83	0.071 ± 0.001
14D32344	19.8 %		0.1376132	376.0909	2.88205	35.6925	3.84163	335.3 ± 81.9	8.62	1.37	0.041 ± 0.000
14D32345	22.1 %		0.1252095	378.5904	1.90135	24.7647	2.23216	280.8 ± 115.3	5.69	0.95	0.028 ± 0.000
14D32346	24.5 %		0.0914298	392.5685	1.39572	18.8167	3.08448	510.7 ± 139.4	10.24	0.72	0.021 ± 0.000
		Σ	5.5661632	2570.1627	279.64592	2599.8393	546.09246				

Information on Analysis

Project = **MULLIONS (13-INT-09)**
Sample = **RR1310-D42-68**
Material = **Groundmass**
Location = **Lau Basin**
Region = **South Pacific**
Analyst = **Chris Conatser**
Irradiation = **14-OSU-04 (4C7-14)**
J = **0.00172305 ± 0.00000224**
FCT-NM = **28.201 ± 0.023 Ma**

Results	40(r)/39(k) ± 2σ		Age ± 2σ (ka)	MSWD	39Ar(k) (%,n)	K/Ca ± 2σ
Age Plateau	0.20688	± 0.00183	**644.5**	**± 5.9**	1.18	51.22	1.187 ± 0.028
		± 0.89%		**± 0.92%**	28%	16	
			Full External Error	± 15.7	1.73	2σ Confidence Limit	
			Analytical Error	± 5.7	1.0851	Error Magnification	
Total Fusion Age	0.21005	± 0.00252	**654.4**	**± 8.0**		33	0.435 ± 0.001
		± 1.20%		**± 1.23%**			
			Full External Error	± 16.8			
			Analytical Error	± 7.9			

Normal Isochron			39(k)/36(a) ± 2σ	40(a+r)/36(a) ± 2σ	r.i.
14D32304	1.8 %		95.71 ± 0.65	328.99 ± 2.19	0.9747
14D32305	1.9 %		388.53 ± 3.33	393.14 ± 3.33	0.9793
14D32306	2.0 %		890.49 ± 12.30	495.14 ± 6.87	0.9840
14D32308	2.1 %	✓	1528.01 ± 31.77	616.08 ± 12.95	0.9837
14D32309	2.2 %	✓	2077.00 ± 68.07	731.40 ± 24.24	0.9864
14D32310	2.3 %	✓	2516.01 ± 106.48	818.71 ± 35.01	0.9881
14D32312	2.4 %	✓	2757.51 ± 105.90	865.41 ± 33.50	0.9905
14D32313	2.5 %	✓	2658.93 ± 125.32	836.78 ± 39.83	0.9889
14D32314	2.6 %	✓	2639.29 ± 161.99	839.98 ± 52.16	0.9874
14D32316	2.8 %	✓	2505.22 ± 141.75	811.85 ± 46.52	0.9864
14D32317	3.0 %	✓	2219.16 ± 104.50	744.62 ± 35.56	0.9846
14D32318	3.2 %	✓	2025.91 ± 91.63	710.41 ± 32.69	0.9814
14D32320	3.5 %	✓	1707.12 ± 66.29	641.07 ± 25.28	0.9828
14D32321	3.8 %	✓	1584.85 ± 78.55	637.19 ± 32.28	0.9765
14D32322	4.1 %	✓	1394.90 ± 53.58	588.35 ± 23.06	0.9777
14D32324	4.4 %	✓	1238.23 ± 61.20	554.81 ± 28.21	0.9698
14D32325	4.7 %	✓	1151.60 ± 47.17	528.30 ± 22.26	0.9694
14D32326	5.2 %	✓	111.52 ± 1.20	315.18 ± 3.36	0.9567
14D32328	5.7 %	✓	1273.13 ± 61.21	554.36 ± 27.39	0.9709
14D32329	6.2 %		1297.06 ± 61.10	542.00 ± 26.22	0.9715
14D32330	6.8 %		1373.10 ± 67.21	553.31 ± 27.80	0.9724
14D32332	7.4 %		1245.97 ± 62.84	506.77 ± 26.38	0.9666
14D32333	8.1 %		1069.98 ± 46.78	453.48 ± 20.61	0.9591
14D32334	9.0 %		917.06 ± 36.67	433.92 ± 18.12	0.9537
14D32336	9.9 %		752.07 ± 27.93	388.25 ± 15.11	0.9494
14D32337	10.9 %		649.09 ± 25.72	373.33 ± 15.44	0.9534
14D32338	12.1 %		585.47 ± 19.33	363.32 ± 12.48	0.9555
14D32340	13.5 %		513.33 ± 14.29	344.57 ± 10.02	0.9498
14D32341	15.5 %		436.98 ± 10.16	329.50 ± 7.89	0.9624
14D32342	17.6 %		351.75 ± 7.65	321.65 ± 7.16	0.9665
14D32344	19.8 %		259.37 ± 5.85	323.42 ± 7.42	0.9684
14D32345	22.1 %		197.79 ± 4.79	313.33 ± 7.73	0.9629
14D32346	24.5 %		205.80 ± 6.24	329.24 ± 10.19	0.9611

Results	40(a)/36(a) ± 2σ	40(r)/39(k) ± 2σ	Age ± 2σ (ka)	MSWD
Normal Isochron	**292.64 ± 3.25** **± 1.11%**	0.20824 ± 0.00242 ± 1.16%	**648.7 ± 7.7** **± 1.19%** Full External Error ± 16.6 Analytical Error ± 7.5	1.03 42%

Statistics				
2σ Confidence Limit	1.76	Convergence	0.000002014604
Error Magnification	1.0160	Number of Iterations	17
Number of Data Points	16	Calculated Line	Weighted York-2

Inverse Isochron			39(k)/40(a+r) ± 2σ	36(a)/40(a+r) ± 2σ	r.i.
14D32304	1.8 %		0.2909246 ± 0.0004425	0.00303956 ± 0.00002020	0.0100
14D32305	1.9 %		0.9882723 ± 0.0017133	0.00254365 ± 0.00002157	0.0535
14D32306	2.0 %		1.7984638 ± 0.0044499	0.00201963 ± 0.00002801	0.1122
14D32308	2.1 %	✓	2.4802097 ± 0.0093678	0.00162317 ± 0.00003412	0.1496
14D32309	2.2 %	✓	2.8397547 ± 0.0154440	0.00136724 ± 0.00004532	0.1499
14D32310	2.3 %	✓	3.0731486 ± 0.0202369	0.00122144 ± 0.00005224	0.1442
14D32312	2.4 %	✓	3.1863627 ± 0.0169173	0.00115552 ± 0.00004472	0.1251
14D32313	2.5 %	✓	3.1775879 ± 0.0224782	0.00119506 ± 0.00005689	0.1403
14D32314	2.6 %	✓	3.1420793 ± 0.0308591	0.00119050 ± 0.00007393	0.1527
14D32316	2.8 %	✓	3.0858372 ± 0.0290756	0.00123176 ± 0.00007059	0.1585
14D32317	3.0 %	✓	2.9802594 ± 0.0249172	0.00134297 ± 0.00006414	0.1673
14D32318	3.2 %	✓	2.8517689 ± 0.0251837	0.00140765 ± 0.00006477	0.1837
14D32320	3.5 %	✓	2.6629207 ± 0.0194194	0.00155989 ± 0.00006151	0.1740
14D32321	3.8 %	✓	2.4872569 ± 0.0271431	0.00156940 ± 0.00007951	0.2075
14D32322	4.1 %	✓	2.3708562 ± 0.0194944	0.00169966 ± 0.00006662	0.1992
14D32324	4.4 %	✓	2.2318130 ± 0.0276629	0.00180243 ± 0.00009166	0.2351
14D32325	4.7 %	✓	2.1798342 ± 0.0225640	0.00189288 ± 0.00007976	0.2347
14D32326	5.2 %	✓	0.3538428 ± 0.0011147	0.00317283 ± 0.00003385	0.1257
14D32328	5.7 %	✓	2.2965688 ± 0.0271678	0.00180387 ± 0.00008912	0.2302
14D32329	6.2 %		2.3930855 ± 0.0274373	0.00184501 ± 0.00008927	0.2287
14D32330	6.8 %		2.4816405 ± 0.0290907	0.00180732 ± 0.00009079	0.2250
14D32332	7.4 %		2.4586642 ± 0.0327990	0.00197330 ± 0.00010273	0.2481
14D32333	8.1 %		2.3595119 ± 0.0303441	0.00220519 ± 0.00010024	0.2739
14D32334	9.0 %		2.1134304 ± 0.0265454	0.00230456 ± 0.00009622	0.2879
14D32336	9.9 %		1.9370765 ± 0.0236929	0.00257566 ± 0.00010027	0.2998
14D32337	10.9 %		1.7386391 ± 0.0217019	0.00267860 ± 0.00011077	0.2870
14D32338	12.1 %		1.6114317 ± 0.0163351	0.00275238 ± 0.00009454	0.2759
14D32340	13.5 %		1.4897504 ± 0.0135579	0.00290215 ± 0.00008440	0.2893
14D32341	15.5 %		1.3262196 ± 0.0086375	0.00303493 ± 0.00007270	0.2413
14D32342	17.6 %		1.0935590 ± 0.0062537	0.00310895 ± 0.00006917	0.2156
14D32344	19.8 %		0.8019651 ± 0.0046016	0.00309199 ± 0.00007098	0.1968
14D32345	22.1 %		0.6312434 ± 0.0042135	0.00319155 ± 0.00007878	0.2005
14D32346	24.5 %		0.6250982 ± 0.0053563	0.00303733 ± 0.00009397	0.2126

Results	40(a)/36(a) ± 2σ	40(r)/39(k) ± 2σ	Age ± 2σ (ka)	MSWD
Inverse Isochron	**292.65 ± 3.27** **± 1.12%**	0.20841 ± 0.00243 ± 1.17%	**649.2 ± 7.8** **± 1.20%** Full External Error ± 16.6 Analytical Error ± 7.6	1.04 41%

Statistics				
2σ Confidence Limit	1.76	Convergence	0.0006366024
Error Magnification	1.0198	Number of Iterations	3
Number of Data Points	16	Calculated Line	Weighted York-2
Spreading Factor	59.0%		

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
14D32304	1.8 %		2.5810043	0.33	0.0000000	0.00	0.0237885	0.67	0.0053330	0.95	90.1080	0.67	0.4823897	0.33	0.0000000	0.00	2.811253	0.07	0.0012525	0.67	30.16686	1.32	247.0346	0.07	0.0606427	0.67	86.44935	2.93	762.6868	0.33	0.0000000	0.00	0.2495049	0.07
14D32305	1.9 %		0.6810408	0.42	0.0000000	0.00	0.0243369	0.67	0.0056425	0.95	92.1854	0.67	0.1272865	0.42	0.0000000	0.00	3.011168	0.07	0.0012814	0.67	31.91525	1.32	264.6018	0.07	0.0620407	0.67	66.49423	1.29	201.2476	0.42	0.0000000	0.00	0.2672478	0.07
14D32306	2.0 %		0.2435566	0.69	0.0000000	0.00	0.0199342	0.77	0.0045850	0.95	75.5082	0.77	0.0455207	0.69	0.0000000	0.00	2.468153	0.08	0.0010496	0.77	25.93146	1.32	216.8852	0.08	0.0508170	0.77	48.62369	1.04	71.9710	0.69	0.0000000	0.00	0.2190540	0.08
14D32308	2.1 %	✓	0.1070464	1.04	0.0000000	0.00	0.0148792	1.00	0.0034246	0.97	56.3608	1.00	0.0200070	1.04	0.0000000	0.00	1.861398	0.08	0.0007834	1.00	19.36537	1.33	163.5675	0.08	0.0379308	1.00	34.31684	1.01	31.6322	1.04	0.0000000	0.00	0.1652031	0.08
14D32309	2.2 %	✓	0.0601407	1.64	0.0000000	0.00	0.0116954	1.20	0.0026174	0.98	44.3007	1.20	0.0112403	1.64	0.0000000	0.00	1.421505	0.08	0.0006158	1.20	14.79976	1.35	124.9126	0.08	0.0298144	1.20	26.21551	1.19	17.7716	1.64	0.0000000	0.00	0.1261617	0.08
14D32310	2.3 %	✓	0.0433078	2.11	0.0000000	0.00	0.0100755	1.42	0.0022548	1.00	38.1649	1.42	0.0080942	2.11	0.0000000	0.00	1.239997	0.08	0.0005305	1.42	12.74845	1.36	108.9628	0.08	0.0256850	1.42	22.65894	1.29	12.7975	2.11	0.0000000	0.00	0.1100524	0.08
14D32312	2.4 %	✓	0.0516100	1.92	0.0000000	0.00	0.0133667	1.10	0.0029100	0.97	50.6313	1.10	0.0096459	1.92	0.0000000	0.00	1.619546	0.08	0.0007038	1.10	16.45059	1.34	142.3151	0.08	0.0340748	1.10	29.41308	1.07	15.2507	1.92	0.0000000	0.00	0.1437383	0.08
14D32313	2.5 %	✓	0.0393943	2.36	0.0000000	0.00	0.0101078	1.34	0.0021492	1.02	38.2870	1.34	0.0073628	2.36	0.0000000	0.00	1.192020	0.08	0.0005322	1.34	12.14851	1.37	104.7469	0.08	0.0257672	1.34	21.32326	1.39	11.6410	2.36	0.0000000	0.00	0.1057944	0.08
14D32314	2.6 %	✓	0.0281385	3.07	0.0000000	0.00	0.0071838	1.95	0.0015172	1.09	27.2114	1.95	0.0052591	3.07	0.0000000	0.00	0.845146	0.09	0.0003782	1.95	8.57569	1.43	74.2659	0.09	0.0183133	1.95	15.32097	1.82	8.3149	3.07	0.0000000	0.00	0.0750086	0.09
14D32316	2.8 %	✓	0.0300533	2.83	0.0000000	0.00	0.0072079	1.95	0.0015118	1.07	27.3028	1.95	0.0056170	2.83	0.0000000	0.00	0.856804	0.09	0.0003795	1.95	8.54346	1.41	75.2903	0.09	0.0183748	1.95	15.51791	1.77	8.8808	2.83	0.0000000	0.00	0.0760432	0.09
14D32317	3.0 %	✓	0.0373563	2.35	0.0000000	0.00	0.0083663	1.74	0.0016291	1.06	31.6906	1.74	0.0069819	2.35	0.0000000	0.00	0.943397	0.09	0.0004405	1.74	9.20550	1.41	82.8996	0.09	0.0213278	1.74	16.77746	1.69	11.0388	2.35	0.0000000	0.00	0.0837286	0.09
14D32318	3.2 %	✓	0.0369126	2.26	0.0000000	0.00	0.0074772	1.88	0.0014456	1.08	28.3228	1.88	0.0068990	2.26	0.0000000	0.00	0.851017	0.09	0.0003937	1.88	8.16831	1.42	74.7818	0.09	0.0190612	1.88	15.31527	1.77	10.9077	2.26	0.0000000	0.00	0.0755296	0.09
14D32320	3.5 %	✓	0.0501860	1.94	0.0000000	0.00	0.0087065	1.64	0.0016154	1.05	32.9792	1.64	0.0093798	1.94	0.0000000	0.00	0.974962	0.09	0.0004584	1.64	9.12630	1.40	85.6733	0.09	0.0221950	1.64	17.34273	1.78	14.8300	1.94	0.0000000	0.00	0.0865301	0.09
14D32321	3.8 %	✓	0.0330100	2.48	0.0000000	0.00	0.0055026	2.48	0.0009540	1.26	20.8431	2.48	0.0061696	2.48	0.0000000	0.00	0.595354	0.10	0.0002897	2.48	5.38932	1.56	52.3158	0.10	0.0140274	2.48	11.27910	2.36	9.7544	2.48	0.0000000	0.00	0.0528390	0.10
14D32322	4.1 %	✓	0.0482021	1.92	0.0000000	0.00	0.0069111	2.07	0.0011451	1.16	26.1785	2.07	0.0090090	1.92	0.0000000	0.00	0.765158	0.09	0.0003639	2.07	6.46833	1.48	67.2371	0.09	0.0176181	2.07	14.11612	2.10	14.2437	1.92	0.0000000	0.00	0.0679095	0.09
14D32324	4.4 %	✓	0.0333582	2.47	0.0000000	0.00	0.0042174	3.19	0.0006649	1.53	15.9750	3.19	0.0062347	2.47	0.0000000	0.00	0.470051	0.12	0.0002221	3.19	3.75503	1.78	41.3050	0.12	0.0107512	3.19	8.65002	3.10	9.8574	2.47	0.0000000	0.00	0.0417181	0.12
14D32325	4.7 %	✓	0.0424079	2.05	0.0000000	0.00	0.0043910	3.13	0.0007123	1.48	16.6324	3.13	0.0079260	2.05	0.0000000	0.00	0.555763	0.11	0.0002312	3.13	4.02243	1.74	48.8368	0.11	0.0111936	3.13	9.87236	2.84	12.5315	2.05	0.0000000	0.00	0.0493252	0.11
14D32326	5.2 %	✓	0.3586460	0.52	0.0000000	0.00	0.0036258	3.79	0.0005604	1.70	13.7341	3.79	0.0670309	0.52	0.0000000	0.00	0.455169	0.12	0.0001909	3.79	3.16442	1.94	39.9972	0.12	0.0092430	3.79	7.05687	8.03	105.9799	0.52	0.0000000	0.00	0.0403972	0.12
14D32328	5.7 %	✓	0.0349706	2.40	0.0000000	0.00	0.0037020	3.77	0.0005570	1.68	14.0227	3.77	0.0065360	2.40	0.0000000	0.00	0.506663	0.12	0.0001949	3.77	3.14494	1.92	44.5222	0.12	0.0094373	3.77	9.05259	3.01	10.3338	2.40	0.0000000	0.00	0.0449675	0.12
14D32329	6.2 %		0.0369423	2.35	0.0000000	0.00	0.0038801	3.57	0.0005435	1.77	14.6972	3.57	0.0069045	2.35	0.0000000	0.00	0.545287	0.11	0.0002043	3.57	3.06823	1.99	47.9163	0.11	0.0098912	3.57	9.10636	3.08	10.9164	2.35	0.0000000	0.00	0.0483955	0.11
14D32330	6.8 %		0.0351720	2.45	0.0000000	0.00	0.0040453	3.46	0.0005105	1.80	15.3231	3.46	0.0065737	2.45	0.0000000	0.00	0.549596	0.11	0.0002130	3.46	2.88196	2.02	48.2949	0.11	0.0103124	3.46	9.06754	3.06	10.3933	2.45	0.0000000	0.00	0.0487779	0.11
14D32332	7.4 %		0.0338511	2.52	0.0000000	0.00	0.0036346	3.81	0.0004408	2.09	13.7675	3.81	0.0063268	2.52	0.0000000	0.00	0.479978	0.12	0.0001914	3.81	2.48765	2.28	42.1773	0.12	0.0092656	3.81	7.15157	3.86	10.0030	2.52	0.0000000	0.00	0.0425991	0.12
14D32333	8.1 %		0.0394606	2.18	0.0000000	0.00	0.0041212	3.33	0.0004824	1.93	15.6107	3.33	0.0073752	2.18	0.0000000	0.00	0.480488	0.11	0.0002170	3.33	2.72239	2.14	42.2221	0.11	0.0105060	3.33	6.23383	4.47	11.6606	2.18	0.0000000	0.00	0.0426444	0.11
14D32334	9.0 %		0.0424660	2.00	0.0000000	0.00	0.0045138	2.98	0.0004810	1.86	17.0977	2.98	0.0079369	2.00	0.0000000	0.00	0.443183	0.13	0.0002377	2.98	2.71444	2.08	38.9440	0.13	0.0115068	2.98	5.87822	4.67	12.5487	2.00	0.0000000	0.00	0.0393335	0.13
14D32336	9.9 %		0.0487174	1.85	0.0000000	0.00	0.0062307	2.16	0.0005834	1.68	23.6013	2.16	0.0091053	1.85	0.0000000	0.00	0.416952	0.13	0.0003281	2.16	3.29198	1.92	36.6390	0.13	0.0158837	2.16	4.51857	6.41	14.3960	1.85	0.0000000	0.00	0.0370054	0.13
14D32337	10.9 %		0.0497660	1.98	0.0000000	0.00	0.0073040	1.90	0.0005794	1.70	27.6668	1.90	0.0093013	1.98	0.0000000	0.00	0.367601	0.14	0.0003846	1.90	3.26875	1.93	32.3024	0.14	0.0186198	1.90	3.87326	8.05	14.7058	1.98	0.0000000	0.00	0.0326254	0.14
14D32338	12.1 %		0.0634710	1.65	0.0000000	0.00	0.0125331	1.15	0.0007839	1.39	47.4738	1.15	0.0118627	1.65	0.0000000	0.00	0.422883	0.13	0.0006599	1.15	4.42242	1.67	37.1602	0.13	0.0319499	1.15	4.30469	7.64	18.7557	1.65	0.0000000	0.00	0.0375318	0.13
14D32340	13.5 %		0.0749043	1.39	0.0000000	0.00	0.0188502	0.84	0.0008419	1.35	71.4022	0.84	0.0139996	1.39	0.0000000	0.00	0.437565	0.12	0.0009925	0.84	4.74870	1.63	38.4503	0.12	0.0480537	0.84	3.67570	8.90	22.1342	1.39	0.0000000	0.00	0.0388348	0.12
14D32341	15.5 %		0.1113394	1.16	0.0000000	0.00	0.0389277	0.52	0.0010620	1.23	147.4535	0.52	0.0208093	1.16	0.0000000	0.00	0.553679	0.11	0.0020496	0.52	5.98968	1.53	48.6537	0.11	0.0992362	0.52	3.78517	10.49	32.9008	1.16	0.0000000	0.00	0.0491402	0.11
14D32342	17.6 %		0.1354780	1.08	0.0000000	0.00	0.0761323	0.42	0.0008477	1.31	288.3799	0.42	0.0253208	1.08	0.0000000	0.00	0.542299	0.11	0.0040085	0.42	4.78062	1.60	47.6537	0.11	0.1940797	0.42	3.54298	12.63	40.0337	1.08	0.0000000	0.00	0.0481303	0.11
14D32344	19.8 %		0.1376132	1.12	0.0000000	0.00	0.0992880	0.41	0.0005111	1.84	376.0909	0.41	0.0257199	1.12	0.0000000	0.00	0.406181	0.13	0.0052277	0.41	2.88205	2.06	35.6925	0.13	0.2531092	0.41	3.84163	12.21	40.6647	1.12	0.0000000	0.00	0.0360494	0.13
14D32345	22.1 %		0.1252095	1.20	0.0000000	0.00	0.0999479	0.41	0.0003372	2.61	378.5904	0.41	0.0234017	1.20	0.0000000	0.00	0.281822	0.17	0.0052624	0.41	1.90135	2.77	24.7647	0.17	0.2547914	0.41	2.23216	20.53	36.9994	1.20	0.0000000	0.00	0.0250123	0.17
14D32346	24.5 %		0.0914298	1.50	0.0000000	0.00	0.1036381	0.40	0.0002476	3.44	392.5685	0.40	0.0170882	1.50	0.0000000	0.00	0.214134	0.21	0.0054567	0.40	1.39572	3.56	18.8167	0.21	0.2641986	0.40	3.08448	13.65	27.0175	1.50	0.0000000	0.00	0.0190049	0.21
		Σ	5.5661632	0.20	0.0000000	0.00	0.6785229	0.16	0.0494817	0.24	2570.1627	0.16	1.0403159	0.20	0.0000000	0.00	29.586172	0.02	0.0357253	0.16	279.64592	0.33	2599.8393	0.02	1.7297195	0.16	546.09246	0.60	1644.8012	0.20	0.0000000	0.00	2.6258377	0.02
		Σ							6.2941678	0.17	2570.1627	0.16									310.30814	0.29			2601.5691	0.02							2193.5195	0.21

Additional Parameters			40Ar/39Ar	1σ	37Ar/39Ar	1σ	36Ar/39Ar	1σ	Time (days)	37Ar (decay)	39Ar (decay)	40Ar (moles)
14D32304	1.8 %		3.437483	0.002614	0.364669	0.002472	0.010563	0.000036	108.859	8.607651	1.00076929	4.077E-11
14D32305	1.9 %		1.012639	0.000877	0.348311	0.002353	0.002687	0.000011	108.868	8.609186	1.00076935	1.286E-11
14D32306	2.0 %		0.556910	0.000688	0.348067	0.002699	0.001236	0.000008	108.876	8.610604	1.00076941	5.799E-12
14D32308	2.1 %	✓	0.404108	0.000762	0.344492	0.003468	0.000766	0.000007	108.894	8.613557	1.00076953	3.173E-12
14D32309	2.2 %	✓	0.353069	0.000958	0.354569	0.004274	0.000596	0.000008	108.903	8.615093	1.00076960	2.117E-12
14D32310	2.3 %	✓	0.326332	0.001071	0.350174	0.004998	0.000510	0.000008	108.911	8.616511	1.00076965	1.707E-12
14D32312	2.4 %	✓	0.314772	0.000833	0.355684	0.003906	0.000477	0.000007	108.928	8.619466	1.00076978	2.151E-12
14D32313	2.5 %	✓	0.315636	0.001113	0.365430	0.004922	0.000493	0.000009	108.937	8.620885	1.00076984	1.587E-12
14D32314	2.6 %	✓	0.319192	0.001563	0.366315	0.007160	0.000496	0.000011	108.946	8.622423	1.00076990	1.138E-12
14D32316	2.8 %	✓	0.324992	0.001526	0.362545	0.007081	0.000515	0.000011	108.963	8.625262	1.00077002	1.175E-12
14D32317	3.0 %	✓	0.336465	0.001402	0.382179	0.006668	0.000571	0.000010	108.972	8.626800	1.00077008	1.339E-12
14D32318	3.2 %	✓	0.351580	0.001548	0.378643	0.007129	0.000613	0.000011	108.980	8.628220	1.00077014	1.262E-12
14D32320	3.5 %	✓	0.376440	0.001369	0.384842	0.006309	0.000706	0.000011	108.997	8.631179	1.00077026	1.548E-12
14D32321	3.8 %	✓	0.402951	0.002193	0.398301	0.009893	0.000754	0.000015	109.006	8.632718	1.00077033	1.012E-12
14D32322	4.1 %	✓	0.422688	0.001734	0.389244	0.008057	0.000836	0.000014	109.015	8.634139	1.00077039	1.365E-12
14D32324	4.4 %	✓	0.448959	0.002776	0.386656	0.012325	0.000926	0.000020	109.032	8.637101	1.00077051	8.904E-13
14D32325	4.7 %	✓	0.459655	0.002374	0.340494	0.010678	0.000973	0.000018	109.040	8.638522	1.00077057	1.078E-12
14D32326	5.2 %	✓	2.826471	0.004451	0.343296	0.013026	0.009069	0.000048	109.049	8.640063	1.00077063	5.428E-12
14D32328	5.7 %	✓	0.436350	0.002575	0.314894	0.011874	0.000881	0.000019	109.067	8.643026	1.00077075	9.327E-13
14D32329	6.2 %		0.418794	0.002395	0.306663	0.010946	0.000863	0.000018	109.075	8.644449	1.00077081	9.634E-13
14D32330	6.8 %		0.403883	0.002362	0.317214	0.010982	0.000822	0.000018	109.083	8.645872	1.00077087	9.365E-13
14D32332	7.4 %		0.407645	0.002712	0.326349	0.012442	0.000899	0.000020	109.101	8.648837	1.00077099	8.255E-13
14D32333	8.1 %		0.424721	0.002725	0.369636	0.012322	0.001043	0.000020	109.110	8.650380	1.00077106	8.610E-13
14D32334	9.0 %		0.474034	0.002971	0.438904	0.013111	0.001218	0.000022	109.118	8.651804	1.00077112	8.864E-13
14D32336	9.9 %		0.517028	0.003156	0.643879	0.013926	0.001515	0.000024	109.135	8.654771	1.00077124	9.097E-13
14D32337	10.9 %		0.575841	0.003588	0.856003	0.016273	0.001784	0.000030	109.144	8.656196	1.00077130	8.934E-13
14D32338	12.1 %		0.621042	0.003143	1.276447	0.014730	0.002065	0.000028	109.153	8.657739	1.00077136	1.109E-12
14D32340	13.5 %		0.671424	0.003051	1.854682	0.015749	0.002457	0.000027	109.170	8.660709	1.00077148	1.241E-12
14D32341	15.5 %		0.753496	0.002450	3.024509	0.016117	0.003104	0.000026	109.178	8.662134	1.00077154	1.763E-12
14D32342	17.6 %		0.911742	0.002603	6.027027	0.026319	0.004440	0.000030	109.188	8.663679	1.00077161	2.094E-12
14D32344	19.8 %		1.239160	0.003547	10.462771	0.044690	0.006605	0.000042	109.204	8.666532	1.00077172	2.138E-12
14D32345	22.1 %		1.569042	0.005220	15.131839	0.066481	0.009013	0.000060	109.213	8.668077	1.00077179	1.884E-12
14D32346	24.5 %		1.578594	0.006738	20.573901	0.092671	0.010236	0.000072	109.222	8.669504	1.00077185	1.446E-12

Procedure Blanks		36Ar ± 1σ (SE) [fA]	37Ar ± 1σ (SE) [fA]	38Ar ± 1σ (SE) [fA]	39Ar ± 1σ (SE) [fA]	40Ar ± 1σ (SE) [fA]
14D32304	1.8 %	0.0228507 ± 0.0005300	0.0286616 ± 0.0465097	0.0601204 ± 0.0320511	0.0175545 ± 0.0272022	6.6401522 ± 0.1089642
14D32305	1.9 %	0.0229170 ± 0.0005300	0.0308787 ± 0.0465097	0.0578942 ± 0.0320511	0.0196084 ± 0.0272022	6.6451908 ± 0.1089642
14D32306	2.0 %	0.0229702 ± 0.0005300	0.0324098 ± 0.0465097	0.0559814 ± 0.0320511	0.0213223 ± 0.0272022	6.6494981 ± 0.1089642
14D32308	2.1 %	0.0230572 ± 0.0005300	0.0342061 ± 0.0465097	0.0524348 ± 0.0320511	0.0242366 ± 0.0272022	6.6576223 ± 0.1089642
14D32309	2.2 %	0.0230901 ± 0.0005300	0.0344939 ± 0.0465097	0.0508247 ± 0.0320511	0.0253607 ± 0.0272022	6.6615030 ± 0.1089642
14D32310	2.3 %	0.0231134 ± 0.0005300	0.0344230 ± 0.0465097	0.0494807 ± 0.0320511	0.0261418 ± 0.0272022	6.6649412 ± 0.1089642
14D32312	2.4 %	0.0231410 ± 0.0005300	0.0333961 ± 0.0465097	0.0471189 ± 0.0320511	0.0269417 ± 0.0272022	6.6718536 ± 0.1089642
14D32313	2.5 %	0.0231448 ± 0.0005300	0.0325505 ± 0.0465097	0.0461956 ± 0.0320511	0.0269201 ± 0.0272022	6.6751398 ± 0.1089642
14D32314	2.6 %	0.0231426 ± 0.0005300	0.0314241 ± 0.0465097	0.0453495 ± 0.0320511	0.0265999 ± 0.0272022	6.6787410 ± 0.1089642
14D32316	2.8 %	0.0231225 ± 0.0005300	0.0288853 ± 0.0465097	0.0442082 ± 0.0320511	0.0252183 ± 0.0272022	6.6856673 ± 0.1089642
14D32317	3.0 %	0.0231039 ± 0.0005300	0.0273193 ± 0.0465097	0.0438179 ± 0.0320511	0.0240627 ± 0.0272022	6.6896587 ± 0.1089642
14D32318	3.2 %	0.0230825 ± 0.0005300	0.0257864 ± 0.0465097	0.0435999 ± 0.0320511	0.0227605 ± 0.0272022	6.6935452 ± 0.1089642
14D32320	3.5 %	0.0230269 ± 0.0005300	0.0224107 ± 0.0465097	0.0435840 ± 0.0320511	0.0194017 ± 0.0272022	6.7024250 ± 0.1089642
14D32321	3.8 %	0.0229933 ± 0.0005300	0.0205980 ± 0.0465097	0.0438098 ± 0.0320511	0.0173628 ± 0.0272022	6.7075428 ± 0.1089642
14D32322	4.1 %	0.0229601 ± 0.0005300	0.0189108 ± 0.0465097	0.0441605 ± 0.0320511	0.0153412 ± 0.0272022	6.7126190 ± 0.1089642
14D32324	4.4 %	0.0228870 ± 0.0005300	0.0154025 ± 0.0465097	0.0453293 ± 0.0320511	0.0108377 ± 0.0272022	6.7244223 ± 0.1089642
14D32325	4.7 %	0.0228511 ± 0.0005300	0.0137402 ± 0.0465097	0.0461008 ± 0.0320511	0.0086099 ± 0.0272022	6.7307417 ± 0.1089642
14D32326	5.2 %	0.0228127 ± 0.0005300	0.0119649 ± 0.0465097	0.0470906 ± 0.0320511	0.0062097 ± 0.0272022	6.7381125 ± 0.1089642
14D32328	5.7 %	0.0227432 ± 0.0005300	0.0086400 ± 0.0465097	0.0494443 ± 0.0320511	0.0018350 ± 0.0272022	6.7539496 ± 0.1089642
14D32329	6.2 %	0.0227132 ± 0.0005300	0.0070870 ± 0.0465097	0.0507845 ± 0.0320511	0.0000486 ± 0.0272022	6.7623860 ± 0.1089642
14D32330	6.8 %	0.0226865 ± 0.0005300	0.0055593 ± 0.0465097	0.0522611 ± 0.0320511	0.0017207 ± 0.0272022	6.7713987 ± 0.1089642
14D32332	7.4 %	0.0226443 ± 0.0005300	0.0024363 ± 0.0465097	0.0557759 ± 0.0320511	0.0042744 ± 0.0272022	6.7921320 ± 0.1089642
14D32333	8.1 %	0.0226314 ± 0.0005300	0.0008264 ± 0.0465097	0.0578377 ± 0.0320511	0.0049596 ± 0.0272022	6.8040133 ± 0.1089642
14D32334	9.0 %	0.0226263 ± 0.0005300	0.0006656 ± 0.0465097	0.0598830 ± 0.0320511	0.0051071 ± 0.0272022	6.8156803 ± 0.1089642
14D32336	9.9 %	0.0226400 ± 0.0005300	0.0038503 ± 0.0465097	0.0645826 ± 0.0320511	0.0036049 ± 0.0272022	6.8422348 ± 0.1089642
14D32337	10.9 %	0.0226601 ± 0.0005300	0.0054483 ± 0.0465097	0.0670488 ± 0.0320511	0.0018591 ± 0.0272022	6.8561004 ± 0.1089642
14D32338	12.1 %	0.0226932 ± 0.0005300	0.0072585 ± 0.0465097	0.0698745 ± 0.0320511	0.0009054 ± 0.0272022	6.8719692 ± 0.1089642
14D32340	13.5 %	0.0227945 ± 0.0005300	0.0110681 ± 0.0465097	0.0757588 ± 0.0320511	0.0091567 ± 0.0272022	6.9050398 ± 0.1089642
14D32341	15.5 %	0.0228627 ± 0.0005300	0.0131008 ± 0.0465097	0.0787937 ± 0.0320511	0.0146766 ± 0.0272022	6.9221402 ± 0.1089642
14D32342	17.6 %	0.0229525 ± 0.0005300	0.0154935 ± 0.0465097	0.0822356 ± 0.0320511	0.0219415 ± 0.0272022	6.9415855 ± 0.1089642
14D32344	19.8 %	0.0231662 ± 0.0005300	0.0205544 ± 0.0465097	0.0890105 ± 0.0320511	0.0392701 ± 0.0272022	6.9800518 ± 0.1089642
14D32345	22.1 %	0.0233104 ± 0.0005300	0.0237181 ± 0.0465097	0.0929083 ± 0.0320511	0.0510115 ± 0.0272022	7.0023050 ± 0.1089642
14D32346	24.5 %	0.0234627 ± 0.0005300	0.0269506 ± 0.0465097	0.0966483 ± 0.0320511	0.0634670 ± 0.0272022	7.0237450 ± 0.1089642

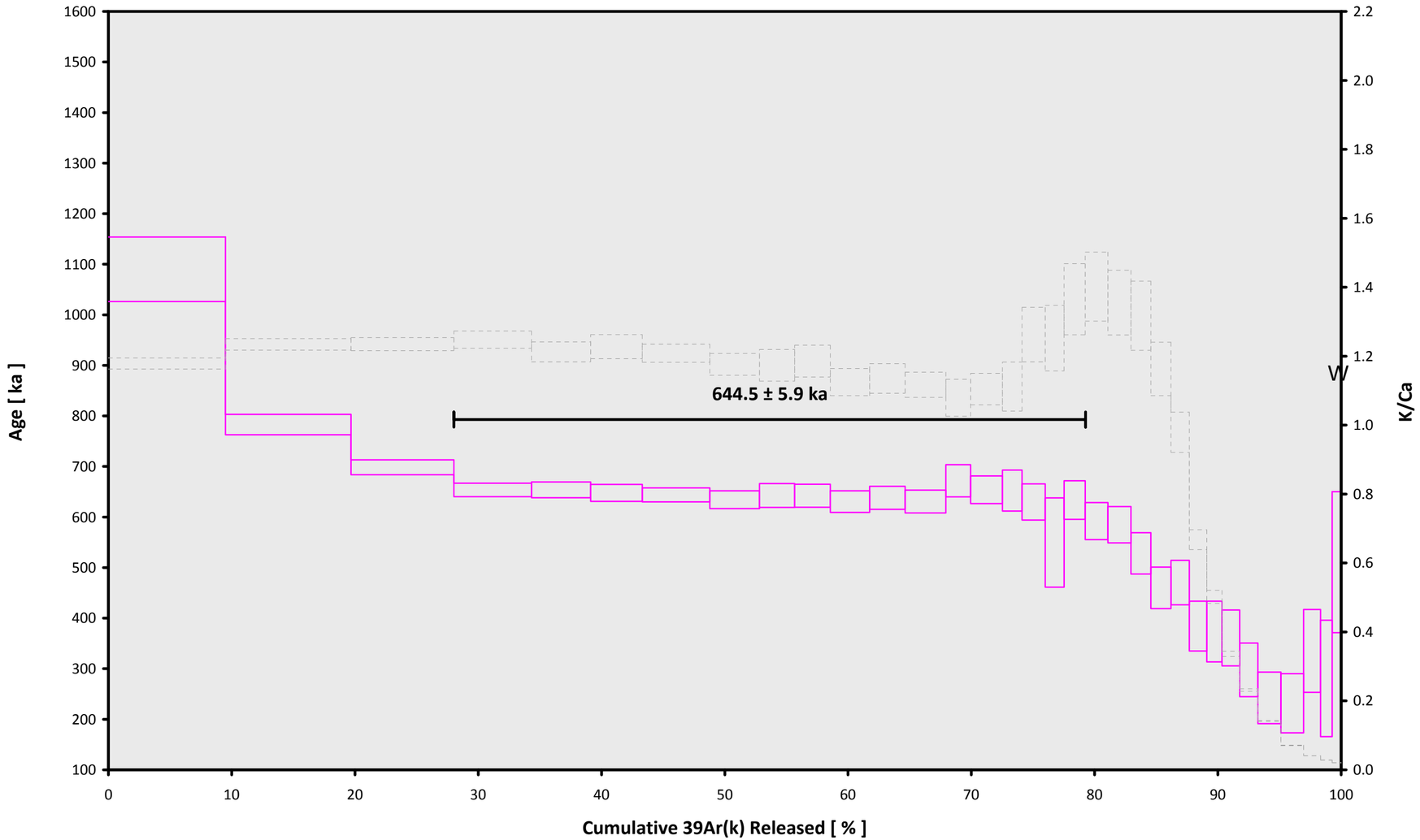
Intercept Values		36Ar ± 1σ (SE) [fA]	r2	Regression (type,n)	37Ar ± 1σ (SE) [fA]	r2	Regression (type,n)	38Ar ± 1σ (SE) [fA]	r2	Regression (type,n)	39Ar ± 1σ (SE) [fA]	r2	Regression (type,n)	40Ar ± 1σ (SE) [fA]	r2	Regression (type,n)
14D32304	1.8 %	2.5114434 ± 0.0036158	0.9528	EXP 150 of 150	10.288543 ± 0.033405	0.7756	EXP 150 of 150	32.9568036 ± 0.0317160	0.9739	EXP 150 of 150	245.284534 ± 0.038472	0.9994	EXP 150 of 150	858.350658 ± 0.079741	0.9994	EXP 150 of 150
14D32305	1.9 %	0.7008306 ± 0.0017971	0.7797	EXP 150 of 150	10.525422 ± 0.035127	0.7464	EXP 150 of 150	34.5310788 ± 0.0358258	0.9702	EXP 150 of 150	262.725206 ± 0.043713	0.9994	EXP 150 of 150	275.387798 ± 0.047913	0.9933	EXP 150 of 150
14D32306	2.0 %	0.2785638 ± 0.0012943	0.1328	EXP 149 of 150	8.626981 ± 0.034411	0.6411	EXP 150 of 150	28.0120395 ± 0.0291115	0.9687	EXP 150 of 150	215.352188 ± 0.040525	0.9992	EXP 150 of 150	127.793906 ± 0.046957	0.7056	EXP 150 of 150
14D32308	2.1 %	0.1425708 ± 0.0008334	0.0017	EXP 150 of 150	6.447162 ± 0.037329	0.5279	EXP 150 of 150	20.9126581 ± 0.0351874	0.9258	EXP 150 of 150	162.419088 ± 0.037226	0.9988	EXP 150 of 150	72.952831 ± 0.033356	0.9819	EXP 150 of 150
14D32309	2.2 %	0.0940769 ± 0.0007334	0.2720	EXP 150 of 150	5.074308 ± 0.033904	0.3842	EXP 150 of 150	15.9664979 ± 0.0318302	0.8990	EXP 150 of 150	124.043266 ± 0.033615	0.9983	EXP 150 of 150	50.895504 ± 0.035651	0.9874	EXP 150 of 150
14D32310	2.3 %	0.0761609 ± 0.0006618	0.3805	EXP 149 of 150	4.375488 ± 0.037338	0.2661	EXP 150 of 150	13.7615176 ± 0.0326287	0.8615	EXP 150 of 150	108.208216 ± 0.035710	0.9975	EXP 150 of 150	42.328755 ± 0.030977	0.9917	EXP 150 of 150
14D32312	2.4 %	0.0878667 ± 0.0007443	0.2477	EXP 150 of 150	5.790474 ± 0.036613	0.4277	EXP 150 of 150	17.7930114 ± 0.0311149	0.9141	EXP 150 of 150	141.322859 ± 0.036034	0.9985	EXP 150 of 150	51.602058 ± 0.031957	0.9882	EXP 149 of 150
14D32313	2.5 %	0.0723911 ± 0.0006808	0.2873	EXP 150 of 150	4.385301 ± 0.031474	0.3099	EXP 148 of 150	13.1247808 ± 0.0359941	0.8181	EXP 149 of 150	104.024321 ± 0.034544	0.9974	EXP 150 of 150	39.835729 ± 0.032187	0.9898	EXP 150 of 150
14D32314	2.6 %	0.0582668 ± 0.0006063	0.3585	EXP 150 of 150	3.124466 ± 0.036702	0.1545	EXP 150 of 150	9.2558145 ± 0.0354834	0.6918	EXP 150 of 150	73.761153 ± 0.031619	0.9956	EXP 150 of 150	30.454560 ± 0.034674	0.9901	EXP 150 of 150
14D32316	2.8 %	0.0600902 ± 0.0005879	0.3462	EXP 150 of 150	3.131292 ± 0.036919	0.0932	EXP 150 of 150	9.2370083 ± 0.0311754	0.7034	EXP 150 of 150	74.776667 ± 0.028704	0.9965	EXP 150 of 150	31.227372 ± 0.030578	0.9914	EXP 150 of 150
14D32317	3.0 %	0.0682507 ± 0.0006199	0.2805	EXP 150 of 150	3.627670 ± 0.039840	0.2469	EXP 150 of 150	9.9774811 ± 0.0337753	0.7624	EXP 150 of 150	82.331400 ± 0.032122	0.9965	EXP 150 of 150	34.665988 ± 0.033424	0.9891	EXP 150 of 150
14D32318	3.2 %	0.0667838 ± 0.0005629	0.3682	EXP 150 of 150	3.242991 ± 0.036731	0.2158	EXP 150 of 150	8.8630185 ± 0.0301126	0.7423	EXP 150 of 150	74.270120 ± 0.031756	0.9958	EXP 150 of 150	33.064010 ± 0.032099	0.9901	EXP 150 of 150
14D32320	3.5 %	0.0807174 ± 0.0007301	0.1050	EXP 150 of 150	3.767258 ± 0.037347	0.2217	EXP 150 of 150	9.9331046 ± 0.0304362	0.7673	EXP 150 of 150	85.080786 ± 0.034607	0.9961	EXP 150 of 150	39.049943 ± 0.033877	0.9868	EXP 150 of 150
14D32321	3.8 %	0.0606222 ± 0.0005450	0.4372	EXP 150 of 150	2.386940 ± 0.034717	0.1392	EXP 150 of 150	5.8676747 ± 0.0311008	0.5532	EXP 150 of 150	51.959984 ± 0.028738	0.9928	EXP 150 of 150	27.851643 ± 0.029710	0.9917	EXP 150 of 150
14D32322	4.1 %	0.0765990 ± 0.0006729	0.2349	EXP 149 of 150	2.990502 ± 0.038557	0.2769	EXP 150 of 150	7.1024185 ± 0.0304469	0.6936	EXP 150 of 150	66.772391 ± 0.027594	0.9960	EXP 150 of 150	35.218183 ± 0.033247	0.9879	EXP 150 of 150
14D32324	4.4 %	0.0593469 ± 0.0005547	0.3129	EXP 150 of 150	1.828144 ± 0.033533	0.1281	EXP 149 of 150	4.1299524 ± 0.0313696	0.3562	EXP 150 of 150	41.020867 ± 0.025815	0.9902	EXP 150 of 150	25.324294 ± 0.029807	0.9915	EXP 150 of 150
14D32325	4.7 %	0.0681501 ± 0.0006066	0.2316	EXP 150 of 150	1.900776 ± 0.035832	0.0474	EXP 150 of 150	4.4792796 ± 0.0325130	0.3590	EXP 150 of 150	48.495112 ± 0.029180	0.9914	EXP 150 of 150	29.245425 ± 0.032303	0.9892	EXP 150 of 150
14D32326	5.2 %	0.3687507 ± 0.0013695	0.6629	EXP 150 of 150	1.569888 ± 0.035961	0.0695	EXP 150 of 150	3.5907042 ± 0.0308454	0.3221	EXP 150 of 150	39.716640 ± 0.026315	0.9894	EXP 150 of 150	120.124786 ± 0.041141	0.9276	EXP 150 of 150
14D32328	5.7 %	0.0601462 ± 0.0005747	0.4397	EXP 150 of 150	1.598763 ± 0.037316	0.0408	EXP 149 of 150	3.5602581 ± 0.0292136	0.3346	EXP 150 of 150	44.203965 ± 0.029962	0.9891	EXP 150 of 150	26.238521 ± 0.028908	0.9916	EXP 150 of 150
14D32329	6.2 %	0.0621530 ± 0.0006123	0.2397	EXP 150 of 150	1.673415 ± 0.036488	0.1185	EXP 150 of 150	3.5217071 ± 0.0321249	0.2694	EXP 150 of 150	47.571460 ± 0.026378	0.9927	EXP 150 of 150	26.888526 ± 0.030169	0.9911	EXP 150 of 150
14D32330	6.8 %	0.0605645 ± 0.0006009	0.3822	EXP 150 of 150	1.742565 ± 0.037497	0.0913	EXP 150 of 150	3.3403763 ± 0.0299296	0.2732	EXP 150 of 150	47.946017 ± 0.030017	0.9908	EXP 150 of 150	26.334456 ± 0.027204	0.9931	EXP 149 of 150
14D32332	7.4 %	0.0588048 ± 0.0005927	0.3006	EXP 150 of 150	1.562573 ± 0.036554	0.0726	EXP 150 of 150	2.8788298 ± 0.0326593	0.1849	EXP 150 of 150	41.870125 ± 0.028826	0.9889	EXP 149 of 150	24.036376 ± 0.029547	0.9918	EXP 150 of 150
14D32333	8.1 %	0.0646439 ± 0.0006010	0.2503	EXP 150 of 150	1.769512 ± 0.035555	0.0789	EXP 150 of 150	3.1099527 ± 0.0319917	0.3021	EXP 150 of 150	41.915140 ± 0.025916	0.9911	EXP 150 of 150	24.790193 ± 0.031845	0.9908	EXP 150 of 150
14D32334	9.0 %	0.0678773 ± 0.0005809	0.3157	EXP 150 of 150	1.936184 ± 0.033531	0.0888	EXP 150 of 150	3.0638306 ± 0.0289209	0.2476	EXP 150 of 150	38.662144 ± 0.032010	0.9840	EXP 150 of 150	25.332492 ± 0.031825	0.9904	EXP 150 of 150
14D32336	9.9 %	0.0755859 ± 0.0006472	0.1786	EXP 148 of 150	2.668813 ± 0.032618	0.2253	EXP 150 of 150	3.6043539 ± 0.0321120	0.3682	EXP 150 of 150	36.379988 ± 0.028989	0.9844	EXP 150 of 150	25.845691 ± 0.031066	0.9904	EXP 150 of 150
14D32337	10.9 %	0.0776252 ± 0.0007448	0.1304	EXP 150 of 150	3.127089 ± 0.034987	0.2403	EXP 150 of 150	3.5305209 ± 0.0326603	0.2717	EXP 150 of 150	32.079913 ± 0.026382	0.9838	EXP 150 of 150	25.518771 ± 0.031328	0.9901	EXP 150 of 150
14D32338	12.1 %	0.0959059 ± 0.0008039	0.1007	EXP 150 of 150	5.366938 ± 0.034952	0.4317	EXP 150 of 150	4.7233676 ± 0.0314681	0.4273	EXP 150 of 150	36.917814 ± 0.028806	0.9855	EXP 150 of 150	30.033095 ± 0.031137	0.9891	EXP 150 of 150
14D32340	13.5 %	0.1129862 ± 0.0007791	0.0179	EXP 150 of 150	8.069131 ± 0.038847	0.6047	EXP 150 of 150	5.0563483 ± 0.0324094	0.4313	EXP 150 of 150	38.222600 ± 0.027963	0.9874	EXP 150 of 150	32.824532 ± 0.030810	0.9876	EXP 150 of 150
14D32341	15.5 %	0.1671456 ± 0.0010062	0.1808	EXP 150 of 150	16.670662 ± 0.037784	0.8659	EXP 150 of 150	6.4001361 ± 0.0343136	0.5331	EXP 150 of 150	48.406746 ± 0.028908	0.9914	EXP 150 of 150	43.757804 ± 0.029352	0.9854	EXP 150 of 150
14D32342	17.6 %	0.2255179 ± 0.0011057	0.3709	EXP 150 of 150	32.607694 ± 0.038911	0.9548	EXP 150 of 150	5.1988576 ± 0.0294843	0.4798	EXP 150 of 150	47.515606 ± 0.032256	0.9890	EXP 150 of 150	50.685841 ± 0.034984	0.9771	EXP 150 of 150
14D32344	19.8 %	0.2495241 ± 0.0011341	0.3540	EXP 150 of 150	42.510994 ± 0.042782	0.9696	EXP 148 of 150	3.1860410 ± 0.0316721	0.2918	EXP 149 of 150	35.718855 ± 0.028257	0.9847	EXP 150 of 150	51.644344 ± 0.032170	0.9806	EXP 150 of 150
14D32345	22.1 %	0.2383054 ± 0.0011065	0.3944	EXP 150 of 150	42.782869 ± 0.042599	0.9679	EXP 150 of 150	2.0895269 ± 0.0327360	0.1231	EXP 150 of 150	24.885294 ± 0.026075	0.9741	EXP 150 of 150	46.366338 ± 0.030162	0.9872	EXP 150 of 150
14D32346	24.5 %	0.2096839 ± 0.0009870	0.1400	EXP 150 of 150	44.352809 ± 0.037913	0.9776	EXP 148 of 150	1.5140507 ± 0.0323976	0.0594	EXP 150 of 150	19.003141 ± 0.023708	0.9614	EXP 150 of 150	37.227188 ± 0.031043	0.9903	EXP 150 of 150

Project Info		Analyst	Irradiation	X-pos	Y-pos	Z/H-pos	Project	Experiment	Nmb
14D32304	1.8 %	Chris Conatser	14-OSU-04	0.00	0.00	15.69	Lau Basin\Mullions (13-INT-09)	14D32303	01
14D32305	1.9 %	Chris Conatser	14-OSU-04	0.00	0.00	15.69	Lau Basin\Mullions (13-INT-09)	14D32303	01
14D32306	2.0 %	Chris Conatser	14-OSU-04	0.00	0.00	15.69	Lau Basin\Mullions (13-INT-09)	14D32303	01
14D32308	2.1 %	Chris Conatser	14-OSU-04	0.00	0.00	15.69	Lau Basin\Mullions (13-INT-09)	14D32303	01
14D32309	2.2 %	Chris Conatser	14-OSU-04	0.00	0.00	15.69	Lau Basin\Mullions (13-INT-09)	14D32303	01
14D32310	2.3 %	Chris Conatser	14-OSU-04	0.00	0.00	15.69	Lau Basin\Mullions (13-INT-09)	14D32303	01
14D32312	2.4 %	Chris Conatser	14-OSU-04	0.00	0.00	15.69	Lau Basin\Mullions (13-INT-09)	14D32303	01
14D32313	2.5 %	Chris Conatser	14-OSU-04	0.00	0.00	15.69	Lau Basin\Mullions (13-INT-09)	14D32303	01
14D32314	2.6 %	Chris Conatser	14-OSU-04	0.00	0.00	15.69	Lau Basin\Mullions (13-INT-09)	14D32303	01
14D32316	2.8 %	Chris Conatser	14-OSU-04	0.00	0.00	15.69	Lau Basin\Mullions (13-INT-09)	14D32303	01
14D32317	3.0 %	Chris Conatser	14-OSU-04	0.00	0.00	15.69	Lau Basin\Mullions (13-INT-09)	14D32303	01
14D32318	3.2 %	Chris Conatser	14-OSU-04	0.00	0.00	15.69	Lau Basin\Mullions (13-INT-09)	14D32303	01
14D32320	3.5 %	Chris Conatser	14-OSU-04	0.00	0.00	15.69	Lau Basin\Mullions (13-INT-09)	14D32303	01
14D32321	3.8 %	Chris Conatser	14-OSU-04	0.00	0.00	15.69	Lau Basin\Mullions (13-INT-09)	14D32303	01
14D32322	4.1 %	Chris Conatser	14-OSU-04	0.00	0.00	15.69	Lau Basin\Mullions (13-INT-09)	14D32303	01
14D32324	4.4 %	Chris Conatser	14-OSU-04	0.00	0.00	15.69	Lau Basin\Mullions (13-INT-09)	14D32303	01
14D32325	4.7 %	Chris Conatser	14-OSU-04	0.00	0.00	15.69	Lau Basin\Mullions (13-INT-09)	14D32303	01
14D32326	5.2 %	Chris Conatser	14-OSU-04	0.00	0.00	15.69	Lau Basin\Mullions (13-INT-09)	14D32303	01
14D32328	5.7 %	Chris Conatser	14-OSU-04	0.00	0.00	15.69	Lau Basin\Mullions (13-INT-09)	14D32303	01
14D32329	6.2 %	Chris Conatser	14-OSU-04	0.00	0.00	15.69	Lau Basin\Mullions (13-INT-09)	14D32303	01
14D32330	6.8 %	Chris Conatser	14-OSU-04	0.00	0.00	15.69	Lau Basin\Mullions (13-INT-09)	14D32303	01
14D32332	7.4 %	Chris Conatser	14-OSU-04	0.00	0.00	15.69	Lau Basin\Mullions (13-INT-09)	14D32303	01
14D32333	8.1 %	Chris Conatser	14-OSU-04	0.00	0.00	15.69	Lau Basin\Mullions (13-INT-09)	14D32303	01
14D32334	9.0 %	Chris Conatser	14-OSU-04	0.00	0.00	15.69	Lau Basin\Mullions (13-INT-09)	14D32303	01
14D32336	9.9 %	Chris Conatser	14-OSU-04	0.00	0.00	15.69	Lau Basin\Mullions (13-INT-09)	14D32303	01
14D32337	10.9 %	Chris Conatser	14-OSU-04	0.00	0.00	15.69	Lau Basin\Mullions (13-INT-09)	14D32303	01
14D32338	12.1 %	Chris Conatser	14-OSU-04	0.00	0.00	15.69	Lau Basin\Mullions (13-INT-09)	14D32303	01
14D32340	13.5 %	Chris Conatser	14-OSU-04	0.00	0.00	15.69	Lau Basin\Mullions (13-INT-09)	14D32303	01
14D32341	15.5 %	Chris Conatser	14-OSU-04	0.00	0.00	15.69	Lau Basin\Mullions (13-INT-09)	14D32303	01
14D32342	17.6 %	Chris Conatser	14-OSU-04	0.00	0.00	15.69	Lau Basin\Mullions (13-INT-09)	14D32303	01
14D32344	19.8 %	Chris Conatser	14-OSU-04	0.00	0.00	15.69	Lau Basin\Mullions (13-INT-09)	14D32303	01
14D32345	22.1 %	Chris Conatser	14-OSU-04	0.00	0.00	15.69	Lau Basin\Mullions (13-INT-09)	14D32303	01
14D32346	24.5 %	Chris Conatser	14-OSU-04	0.00	0.00	15.69	Lau Basin\Mullions (13-INT-09)	14D32303	01

Sample Parameters		Sample	Material	Location	Standard Name	Standard (in Ma)	%1σ	Standard Reference	Standard 40Ar/39Ar	%1σ	J	%1σ	Air 40Ar/36Ar	%1σ	MDF (lin)	%1σ	Volume Ratio	Sensitivity (mol/volt)	Day	Month	Year	Hour	Min	Resist
14D32304	1.8 %	RR1310-D42-68	Groundmass	Lau Basin	FCT-NM (4C7-14)	28.201	0.082	Kuiper et al (2008)	9.12182	0.13	0.00172305	0.130	303.562	0.173	0.99335192	0.072	1	4.8E-14	23	NOV	2014	12	37	1
14D32305	1.9 %	RR1310-D42-68	Groundmass	Lau Basin	FCT-NM (4C7-14)	28.201	0.082	Kuiper et al (2008)	9.12182	0.13	0.00172305	0.130	303.562	0.173	0.99335192	0.072	1	4.8E-14	23	NOV	2014	12	50	1
14D32306	2.0 %	RR1310-D42-68	Groundmass	Lau Basin	FCT-NM (4C7-14)	28.201	0.082	Kuiper et al (2008)	9.12182	0.13	0.00172305	0.130	303.562	0.173	0.99335192	0.072	1	4.8E-14	23	NOV	2014	13	2	1
14D32308	2.1 %	RR1310-D42-68	Groundmass	Lau Basin	FCT-NM (4C7-14)	28.201	0.082	Kuiper et al (2008)	9.12182	0.13	0.00172305	0.130	303.562	0.173	0.99335192	0.072	1	4.8E-14	23	NOV	2014	13	27	1
14D32309	2.2 %	RR1310-D42-68	Groundmass	Lau Basin	FCT-NM (4C7-14)	28.201	0.082	Kuiper et al (2008)	9.12182	0.13	0.00172305	0.130	303.562	0.173	0.99335192	0.072	1	4.8E-14	23	NOV	2014	13	40	1
14D32310	2.3 %	RR1310-D42-68	Groundmass	Lau Basin	FCT-NM (4C7-14)	28.201	0.082	Kuiper et al (2008)	9.12182	0.13	0.00172305	0.130	303.562	0.173	0.99335192	0.072	1	4.8E-14	23	NOV	2014	13	52	1
14D32312	2.4 %	RR1310-D42-68	Groundmass	Lau Basin	FCT-NM (4C7-14)	28.201	0.082	Kuiper et al (2008)	9.12182	0.13	0.00172305	0.130	303.562	0.173	0.99335192	0.072	1	4.8E-14	23	NOV	2014	14	17	1
14D32313	2.5 %	RR1310-D42-68	Groundmass	Lau Basin	FCT-NM (4C7-14)	28.201	0.082	Kuiper et al (2008)	9.12182	0.13	0.00172305	0.130	303.562	0.173	0.99335192	0.072	1	4.8E-14	23	NOV	2014	14	29	1
14D32314	2.6 %	RR1310-D42-68	Groundmass	Lau Basin	FCT-NM (4C7-14)	28.201	0.082	Kuiper et al (2008)	9.12182	0.13	0.00172305	0.130	303.562	0.173	0.99335192	0.072	1	4.8E-14	23	NOV	2014	14	42	1
14D32316	2.8 %	RR1310-D42-68	Groundmass	Lau Basin	FCT-NM (4C7-14)	28.201	0.082	Kuiper et al (2008)	9.12182	0.13	0.00172305	0.130	303.562	0.173	0.99335192	0.072	1	4.8E-14	23	NOV	2014	15	6	1
14D32317	3.0 %	RR1310-D42-68	Groundmass	Lau Basin	FCT-NM (4C7-14)	28.201	0.082	Kuiper et al (2008)	9.12182	0.13	0.00172305	0.130	303.562	0.173	0.99335192	0.072	1	4.8E-14	23	NOV	2014	15	19	1
14D32318	3.2 %	RR1310-D42-68	Groundmass	Lau Basin	FCT-NM (4C7-14)	28.201	0.082	Kuiper et al (2008)	9.12182	0.13	0.00172305	0.130	303.562	0.173	0.99335192	0.072	1	4.8E-14	23	NOV	2014	15	31	1
14D32320	3.5 %	RR1310-D42-68	Groundmass	Lau Basin	FCT-NM (4C7-14)	28.201	0.082	Kuiper et al (2008)	9.12182	0.13	0.00172305	0.130	303.562	0.173	0.99335192	0.072	1	4.8E-14	23	NOV	2014	15	56	1
14D32321	3.8 %	RR1310-D42-68	Groundmass	Lau Basin	FCT-NM (4C7-14)	28.201	0.082	Kuiper et al (2008)	9.12182	0.13	0.00172305	0.130	303.562	0.173	0.99335192	0.072	1	4.8E-14	23	NOV	2014	16	9	1
14D32322	4.1 %	RR1310-D42-68	Groundmass	Lau Basin	FCT-NM (4C7-14)	28.201	0.082	Kuiper et al (2008)	9.12182	0.13	0.00172305	0.130	303.562	0.173	0.99335192	0.072	1	4.8E-14	23	NOV	2014	16	21	1
14D32324	4.4 %	RR1310-D42-68	Groundmass	Lau Basin	FCT-NM (4C7-14)	28.201	0.082	Kuiper et al (2008)	9.12182	0.13	0.00172305	0.130	303.562	0.173	0.99335192	0.072	1	4.8E-14	23	NOV	2014	16	46	1
14D32325	4.7 %	RR1310-D42-68	Groundmass	Lau Basin	FCT-NM (4C7-14)	28.201	0.082	Kuiper et al (2008)	9.12182	0.13	0.00172305	0.130	303.562	0.173	0.99335192	0.072	1	4.8E-14	23	NOV	2014	16	58	1
14D32326	5.2 %	RR1310-D42-68	Groundmass	Lau Basin	FCT-NM (4C7-14)	28.201	0.082	Kuiper et al (2008)	9.12182	0.13	0.00172305	0.130	303.562	0.173	0.99335192	0.072	1	4.8E-14	23	NOV	2014	17	11	1
14D32328	5.7 %	RR1310-D42-68	Groundmass	Lau Basin	FCT-NM (4C7-14)	28.201	0.082	Kuiper et al (2008)	9.12182	0.13	0.00172305	0.130	303.562	0.173	0.99335192	0.072	1	4.8E-14	23	NOV	2014	17	36	1
14D32329	6.2 %	RR1310-D42-68	Groundmass	Lau Basin	FCT-NM (4C7-14)	28.201	0.082	Kuiper et al (2008)	9.12182	0.13	0.00172305	0.130	303.562	0.173	0.99335192	0.072	1	4.8E-14	23	NOV	2014	17	48	1
14D32330	6.8 %	RR1310-D42-68	Groundmass	Lau Basin	FCT-NM (4C7-14)	28.201	0.082	Kuiper et al (2008)	9.12182	0.13	0.00172305	0.130	303.562	0.173	0.99335192	0.072	1	4.8E-14	23	NOV	2014	18	0	1
14D32332	7.4 %	RR1310-D42-68	Groundmass	Lau Basin	FCT-NM (4C7-14)	28.201	0.082	Kuiper et al (2008)	9.12182	0.13	0.00172305	0.130	303.562	0.173	0.99335192	0.072	1	4.8E-14	23	NOV	2014	18	25	1
14D32333	8.1 %	RR1310-D42-68	Groundmass	Lau Basin	FCT-NM (4C7-14)	28.201	0.082	Kuiper et al (2008)	9.12182	0.13	0.00172305	0.130	303.562	0.173	0.99335192	0.072	1	4.8E-14	23	NOV	2014	18	38	1
14D32334	9.0 %	RR1310-D42-68	Groundmass	Lau Basin	FCT-NM (4C7-14)	28.201	0.082	Kuiper et al (2008)	9.12182	0.13	0.00172305	0.130	303.562	0.173	0.99335192	0.072	1	4.8E-14	23	NOV	2014	18	50	1
14D32336	9.9 %	RR1310-D42-68	Groundmass	Lau Basin	FCT-NM (4C7-14)	28.201	0.082	Kuiper et al (2008)	9.12182	0.13	0.00172305	0.130	303.562	0.173	0.99335192	0.072	1	4.8E-14	23	NOV	2014	19	15	1
14D32337	10.9 %	RR1310-D42-68	Groundmass	Lau Basin	FCT-NM (4C7-14)	28.201	0.082	Kuiper et al (2008)	9.12182	0.13	0.00172305	0.130	303.562	0.173	0.99335192	0.072	1	4.8E-14	23	NOV	2014	19	27	1
14D32338	12.1 %	RR1310-D42-68	Groundmass	Lau Basin	FCT-NM (4C7-14)	28.201	0.082	Kuiper et al (2008)	9.12182	0.13	0.00172305	0.130	303.562	0.173	0.99335192	0.072	1	4.8E-14	23	NOV	2014	19	40	1
14D32340	13.5 %	RR1310-D42-68	Groundmass	Lau Basin	FCT-NM (4C7-14)	28.201	0.082	Kuiper et al (2008)	9.12182	0.13	0.00172305	0.130	303.562	0.173	0.99335192	0.072	1	4.8E-14	23	NOV	2014	20	5	1
14D32341	15.5 %	RR1310-D42-68	Groundmass	Lau Basin	FCT-NM (4C7-14)	28.201	0.082	Kuiper et al (2008)	9.12182	0.13	0.00172305	0.130	303.562	0.173	0.99335192	0.072	1	4.8E-14	23	NOV	2014	20	17	1
14D32342	17.6 %	RR1310-D42-68	Groundmass	Lau Basin	FCT-NM (4C7-14)	28.201	0.082	Kuiper et al (2008)	9.12182	0.13	0.00172305	0.130	303.562	0.173	0.99335192	0.072	1	4.8E-14	23	NOV	2014	20	30	1
14D32344	19.8 %	RR1310-D42-68	Groundmass	Lau Basin	FCT-NM (4C7-14)	28.201	0.082	Kuiper et al (2008)	9.12182	0.13	0.00172305	0.130	303.562	0.173	0.99335192	0.072	1	4.8E-14	23	NOV	2014	20	54	1
14D32345	22.1 %	RR1310-D42-68	Groundmass	Lau Basin	FCT-NM (4C7-14)	28.201	0.082	Kuiper et al (2008)	9.12182	0.13	0.00172305	0.130	303.562	0.173	0.99335192	0.072	1	4.8E-14	23	NOV	2014	21	7	1
14D32346	24.5 %	RR1310-D42-68	Groundmass	Lau Basin	FCT-NM (4C7-14)	28.201	0.082	Kuiper et al (2008)	9.12182	0.13	0.00172305	0.130	303.562	0.173	0.99335192	0.072	1	4.8E-14	23	NOV	2014	21	19	1

Irradiation Constants		40/36(a)	%1σ	40/36(c)	%1σ	38/36(a)	%1σ	38/36(c)	%1σ	39/37(ca)	%1σ	38/37(ca)	%1σ	36/37(ca)	%1σ	40/39(k)	%1σ	38/39(k)	%1σ	36/38(cl)	%1σ	K/Ca	%1σ	K/Cl	%1σ	Ca/Cl	%1σ
14D32304	1.8 %	295.5	0	0.018	35	0.1869	0	1.493	3	0.000673	0	0.0000139	0	0.000264	0	0.00101	0	0.01138	0	0	0	0.43	0	0	0	0	0
14D32305	1.9 %	295.5	0	0.018	35	0.1869	0	1.493	3	0.000673	0	0.0000139	0	0.000264	0	0.00101	0	0.01138	0	0	0	0.43	0	0	0	0	0
14D32306	2.0 %	295.5	0	0.018	35	0.1869	0	1.493	3	0.000673	0	0.0000139	0	0.000264	0	0.00101	0	0.01138	0	0	0	0.43	0	0	0	0	0
14D32308	2.1 %	295.5	0	0.018	35	0.1869	0	1.493	3	0.000673	0	0.0000139	0	0.000264	0	0.00101	0	0.01138	0	0	0	0.43	0	0	0	0	0
14D32309	2.2 %	295.5	0	0.018	35	0.1869	0	1.493	3	0.000673	0	0.0000139	0	0.000264	0	0.00101	0	0.01138	0	0	0	0.43	0	0	0	0	0
14D32310	2.3 %	295.5	0	0.018	35	0.1869	0	1.493	3	0.000673	0	0.0000139	0	0.000264	0	0.00101	0	0.01138	0	0	0	0.43	0	0	0	0	0
14D32312	2.4 %	295.5	0	0.018	35	0.1869	0	1.493	3	0.000673	0	0.0000139	0	0.000264	0	0.00101	0	0.01138	0	0	0	0.43	0	0	0	0	0
14D32313	2.5 %	295.5	0	0.018	35	0.1869	0	1.493	3	0.000673	0	0.0000139	0	0.000264	0	0.00101	0	0.01138	0	0	0	0.43	0	0	0	0	0
14D32314	2.6 %	295.5	0	0.018	35	0.1869	0	1.493	3	0.000673	0	0.0000139	0	0.000264	0	0.00101	0	0.01138	0	0	0	0.43	0	0	0	0	0
14D32316	2.8 %	295.5	0	0.018	35	0.1869	0	1.493	3	0.000673	0	0.0000139	0	0.000264	0	0.00101	0	0.01138	0	0	0	0.43	0	0	0	0	0
14D32317	3.0 %	295.5	0	0.018	35	0.1869	0	1.493	3	0.000673	0	0.0000139	0	0.000264	0	0.00101	0	0.01138	0	0	0	0.43	0	0	0	0	0
14D32318	3.2 %	295.5	0	0.018	35	0.1869	0	1.493	3	0.000673	0	0.0000139	0	0.000264	0	0.00101	0	0.01138	0	0	0	0.43	0	0	0	0	0
14D32320	3.5 %	295.5	0	0.018	35	0.1869	0	1.493	3	0.000673	0	0.0000139	0	0.000264	0	0.00101	0	0.01138	0	0	0	0.43	0	0	0	0	0
14D32321	3.8 %	295.5	0	0.018	35	0.1869	0	1.493	3	0.000673	0	0.0000139	0	0.000264	0	0.00101	0	0.01138	0	0	0	0.43	0	0	0	0	0
14D32322	4.1 %	295.5	0	0.018	35	0.1869	0	1.493	3	0.000673	0	0.0000139	0	0.000264	0	0.00101	0	0.01138	0	0	0	0.43	0	0	0	0	0
14D32324	4.4 %	295.5	0	0.018	35	0.1869	0	1.493	3	0.000673	0	0.0000139	0	0.000264	0	0.00101	0	0.01138	0	0	0	0.43	0	0	0	0	0
14D32325	4.7 %	295.5	0	0.018	35	0.1869	0	1.493	3	0.000673	0	0.0000139	0	0.000264	0	0.00101	0	0.01138	0	0	0	0.43	0	0	0	0	0
14D32326	5.2 %	295.5	0	0.018	35	0.1869	0	1.493	3	0.000673	0	0.0000139	0	0.000264	0	0.00101	0	0.01138	0	0	0	0.43	0	0	0	0	0
14D32328	5.7 %	295.5	0	0.018	35	0.1869	0	1.493	3	0.000673	0	0.0000139	0	0.000264	0	0.00101	0	0.01138	0	0	0	0.43	0	0	0	0	0
14D32329	6.2 %	295.5	0	0.018	35	0.1869	0	1.493	3	0.000673	0	0.0000139	0	0.000264	0	0.00101	0	0.01138	0	0	0	0.43	0	0	0	0	0
14D32330	6.8 %	295.5	0	0.018	35	0.1869	0	1.493	3	0.000673	0	0.0000139	0	0.000264	0	0.00101	0	0.01138	0	0	0	0.43	0	0	0	0	0
14D32332	7.4 %	295.5	0	0.018	35	0.1869	0	1.493	3	0.000673	0	0.0000139	0	0.000264	0	0.00101	0	0.01138	0	0	0	0.43	0	0	0	0	0
14D32333	8.1 %	295.5	0	0.018	35	0.1869	0	1.493	3	0.000673	0	0.0000139	0	0.000264	0	0.00101	0	0.01138	0	0	0	0.43	0	0	0	0	0
14D32334	9.0 %	295.5	0	0.018	35	0.1869	0	1.493	3	0.000673	0	0.0000139	0	0.000264	0	0.00101	0	0.01138	0	0	0	0.43	0	0	0	0	0
14D32336	9.9 %	295.5	0	0.018	35	0.1869	0	1.493	3	0.000673	0	0.0000139	0	0.000264	0	0.00101	0	0.01138	0	0	0	0.43	0	0	0	0	0
14D32337	10.9 %	295.5	0	0.018	35	0.1869	0	1.493	3	0.000673	0	0.0000139	0	0.000264	0	0.00101	0	0.01138	0	0	0	0.43	0	0	0	0	0
14D32338	12.1 %	295.5	0	0.018	35	0.1869	0	1.493	3	0.000673	0	0.0000139	0	0.000264	0	0.00101	0	0.01138	0	0	0	0.43	0	0	0	0	0
14D32340	13.5 %	295.5	0	0.018	35	0.1869	0	1.493	3	0.000673	0	0.0000139	0	0.000264	0	0.00101	0	0.01138	0	0	0	0.43	0	0	0	0	0
14D32341	15.5 %	295.5	0	0.018	35	0.1869	0	1.493	3	0.000673	0	0.0000139	0	0.000264	0	0.00101	0	0.01138	0	0	0	0.43	0	0	0	0	0
14D32342	17.6 %	295.5	0	0.018	35	0.1869	0	1.493	3	0.000673	0	0.0000139	0	0.000264	0	0.00101	0	0.01138	0	0	0	0.43	0	0	0	0	0
14D32344	19.8 %	295.5	0	0.018	35	0.1869	0	1.493	3	0.000673	0	0.0000139	0	0.000264	0	0.00101	0	0.01138	0	0	0	0.43	0	0	0	0	0
14D32345	22.1 %	295.5	0	0.018	35	0.1869	0	1.493	3	0.000673	0	0.0000139	0	0.000264	0	0.00101	0	0.01138	0	0	0	0.43	0	0	0	0	0
14D32346	24.5 %	295.5	0	0.018	35	0.1869	0	1.493	3	0.000673	0	0.0000139	0	0.000264	0	0.00101	0	0.01138	0	0	0	0.43	0	0	0	0	0

14D32303.AGE >>> RR1310-D42-68 >>> LAU BASIN | MULLIONS (13-INT-09) PROJECT



Ar-Ages in ka

WEIGHTED PLATEAU
644.5 ± 5.9
TOTAL FUSION
654.4 ± 8.0
NORMAL ISOCHRON
648.7 ± 7.7
INVERSE ISOCHRON
649.2 ± 7.8

MSWD (PROBABILITY)
1.18 (28%)

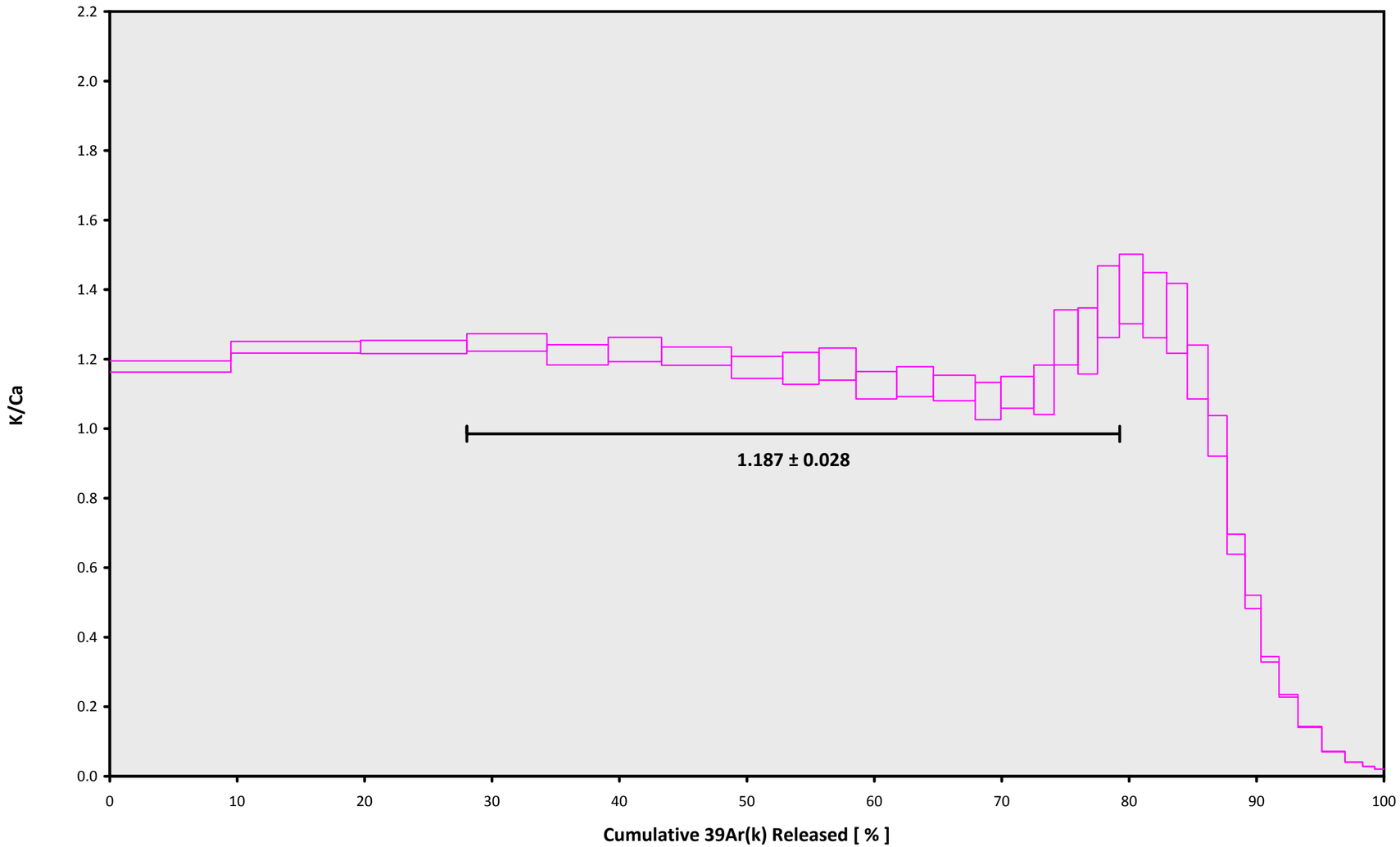
Sample Info

Groundmass
Lau Basin
Chris Conatser

IRR = 14-OSU-04 (4C7-14)
J = 0.00172305 ± 0.00000224

OSU Argon Geochronology Lab
CEOAS Oregon State University, Corvallis, USA

14D32303.AGE >>> RR1310-D42-68 >>> LAU BASIN | MULLIONS (13-INT-09) PROJECT



Ar-Ages in ka

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654.4 ± 8.0
NORMAL ISOCHRON
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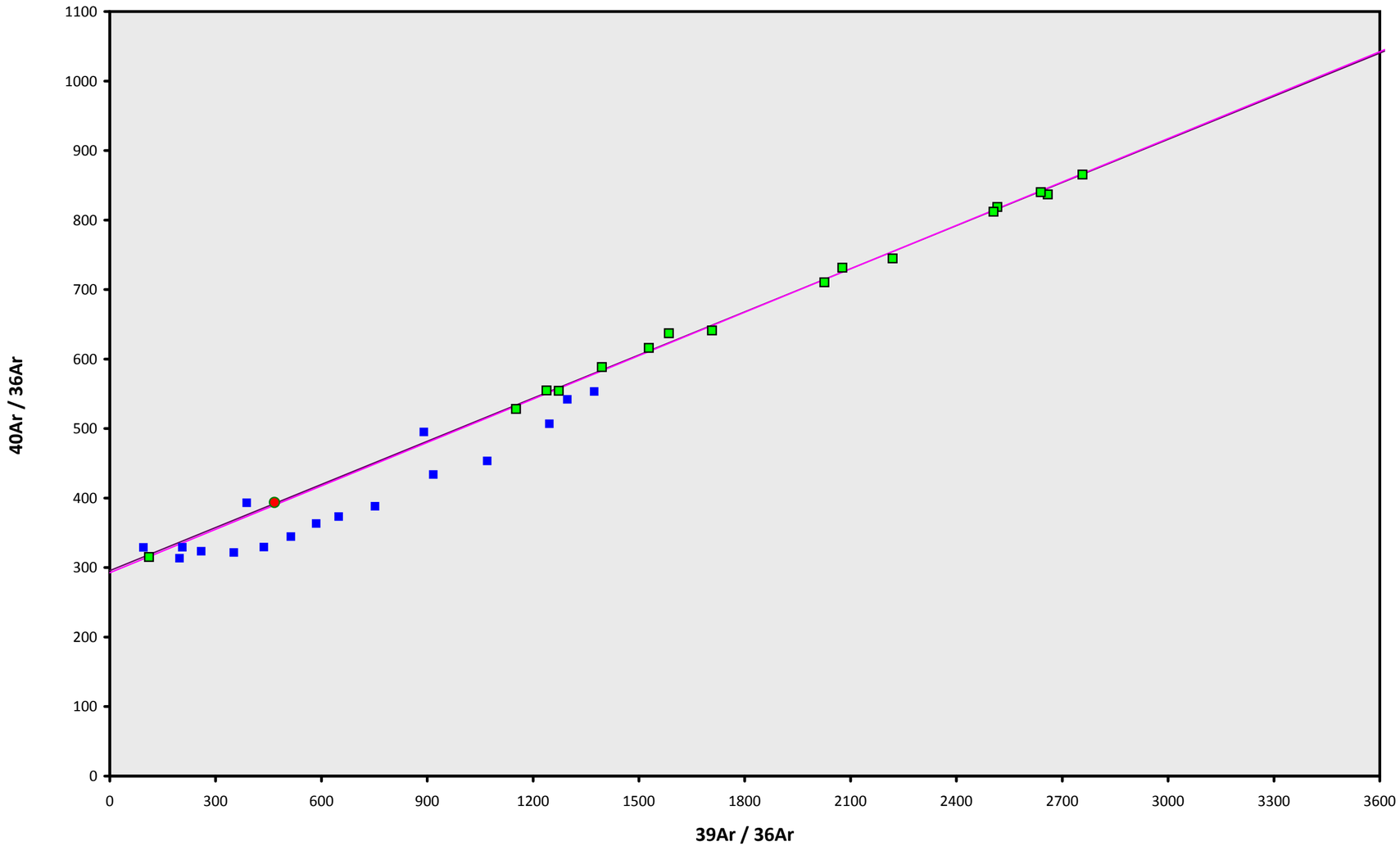

Ar-Ages in ka

WEIGHTED PLATEAU
644.5 ± 5.9
TOTAL FUSION
654.4 ± 8.0
NORMAL ISOCHRON
648.7 ± 7.7
INVERSE ISOCHRON
649.2 ± 7.8

MSWD (PROBABILITY)
1.03 (42%)

40AR/36AR INTERCEPT
292.6 ± 3.2

Sample Info

Groundmass
Lau Basin
Chris Conatser

IRR = 14-OSU-04 (4C7-14)
J = 0.00172305 ± 0.00000224

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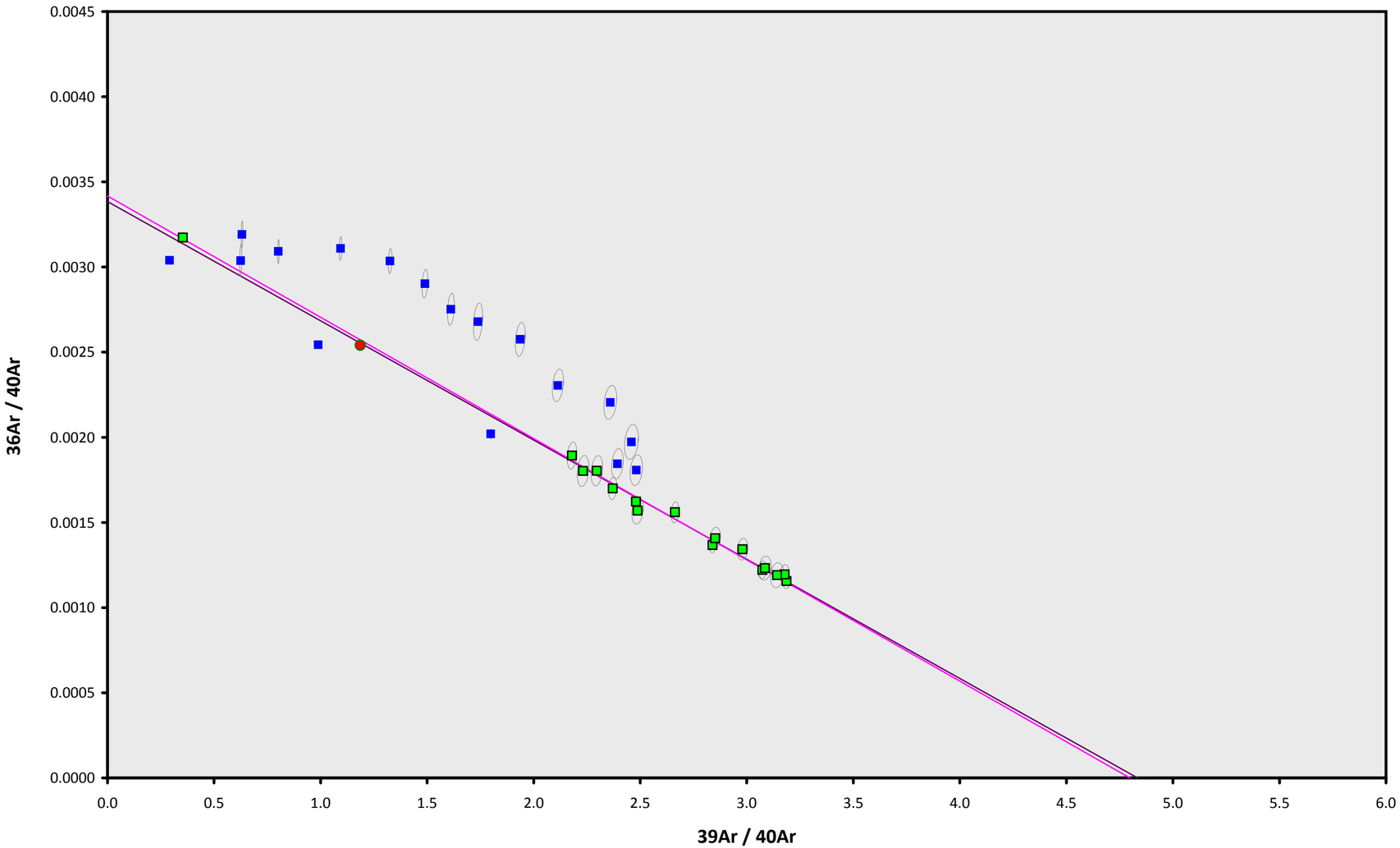
14D32303.AGE >>> RR1310-D42-68 >>> LAU BASIN | MULLIONS (13-INT-09) PROJECT



Ar-Ages in ka

WEIGHTED PLATEAU
644.5 ± 5.9
TOTAL FUSION
654.4 ± 8.0
NORMAL ISOCHRON
648.7 ± 7.7
INVERSE ISOCHRON
649.2 ± 7.8

MSWD (PROBABILITY)
1.04 (41%)

SPREADING FACTOR
59.0%

40AR/36AR INTERCEPT
292.6 ± 3.3

Sample Info

Groundmass
Lau Basin
Chris Conatser

IRR = 14-OSU-04 (4C7-14)
J = 0.00172305 ± 0.00000224