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
14D33126	1.8 %	✓	0.0529008	1.911	51.5022	1.224	0.0386343	118.448	0.71666	5.094	12.03535	1.099	0.61807 ± 0.97107	1869.7 ± 2936.0	3.50	0.62	0.0057 ± 0.0006
14D33127	2.2 %	✓	0.0734841	1.383	85.6515	0.811	0.0587436	80.026	1.16522	3.200	15.48308	0.849	0.40739 ± 0.60053	1232.6 ± 1816.3	2.91	1.01	0.0056 ± 0.0004
14D33129	2.8 %	✓	0.1146793	0.970	208.8266	0.487	0.0559500	80.157	2.63335	1.368	18.54997	0.714	0.38167 ± 0.29156	1154.8 ± 881.9	5.13	2.27	0.0051 ± 0.0002
14D33130	3.4 %	✓	0.1150856	1.021	213.4254	0.482	0.0511358	88.284	2.61320	1.377	18.25187	0.721	0.36113 ± 0.30797	1092.7 ± 931.6	4.89	2.25	0.0050 ± 0.0002
14D33131	4.0 %	✓	0.1176014	1.043	263.0400	0.451	0.0405415	114.530	3.19835	1.107	15.38416	0.857	0.38068 ± 0.26279	1151.8 ± 794.9	7.48	2.76	0.0049 ± 0.0001
14D33133	4.6 %	✓	0.1905774	0.750	494.7640	0.410	0.0699425	63.763	5.93123	0.628	19.39927	0.678	0.29929 ± 0.16784	905.6 ± 507.7	8.64	5.11	0.0049 ± 0.0001
14D33134	5.2 %	✓	0.2084700	0.697	585.7312	0.404	0.1507531	29.711	6.84688	0.537	18.81075	0.697	0.44922 ± 0.15059	1359.1 ± 455.4	15.41	5.89	0.0047 ± 0.0001
14D33136	5.8 %	✓	0.2370687	0.653	595.0013	0.405	0.0568874	80.500	6.87587	0.555	26.34649	0.500	0.41749 ± 0.15809	1263.1 ± 478.2	10.26	5.91	0.0047 ± 0.0001
14D33137	6.6 %	✓	0.2131049	0.703	618.6217	0.404	0.1254935	36.086	7.30003	0.514	17.57921	0.752	0.41566 ± 0.14578	1257.6 ± 440.9	16.28	6.28	0.0048 ± 0.0001
14D33139	7.4 %	✓	0.2654032	0.598	709.0518	0.401	0.1651135	28.084	8.35661	0.454	26.64138	0.498	0.44726 ± 0.13598	1353.2 ± 411.3	13.23	7.19	0.0048 ± 0.0001
14D33140	8.4 %	✓	0.3185862	0.565	896.8463	0.397	0.1405680	31.058	10.64002	0.370	28.61956	0.462	0.44159 ± 0.12248	1336.0 ± 370.4	15.49	9.16	0.0048 ± 0.0001
14D33142	9.4 %	✓	0.3143168	0.555	847.4581	0.397	0.1667107	26.949	10.18066	0.380	31.50115	0.420	0.49159 ± 0.12362	1487.3 ± 373.8	15.00	8.77	0.0049 ± 0.0001
14D33143	10.6 %	✓	0.2738414	0.603	791.3763	0.398	0.1499559	29.821	9.47803	0.394	23.83220	0.553	0.51884 ± 0.12571	1569.7 ± 380.1	19.47	8.16	0.0049 ± 0.0001
14D33145	11.8 %	✓	0.2197761	0.697	590.1676	0.404	0.1283993	36.046	7.13915	0.518	21.18467	0.621	0.33758 ± 0.15039	1021.4 ± 454.9	10.74	6.15	0.0049 ± 0.0001
14D33146	13.5 %	✓	0.2265341	0.704	620.0391	0.404	0.1453273	31.245	7.61881	0.492	21.70449	0.610	0.43453 ± 0.14638	1314.7 ± 442.7	14.42	6.57	0.0050 ± 0.0001
14D33148	15.1 %	✓	0.1580667	0.878	461.4193	0.413	0.1269542	34.452	5.68248	0.705	13.18904	1.007	0.46055 ± 0.16982	1393.4 ± 513.6	18.76	4.90	0.0050 ± 0.0001
14D33149	16.6 %	✓	0.1570997	0.884	427.0616	0.415	0.1687497	26.091	5.40139	0.646	15.06467	0.877	0.38283 ± 0.17713	1158.3 ± 535.8	13.00	4.67	0.0051 ± 0.0001
14D33150	18.3 %	✓	0.1534916	0.908	372.8759	0.425	0.1573270	27.674	4.82188	0.742	17.97725	0.732	0.37402 ± 0.19678	1131.7 ± 595.2	9.51	4.17	0.0053 ± 0.0001
14D33152	20.3 %	✓	0.1073685	1.052	264.0450	0.457	0.1419712	32.683	3.44470	1.062	12.49061	1.066	0.41745 ± 0.22757	1263.0 ± 688.3	10.92	2.98	0.0053 ± 0.0001
14D33153	22.5 %	✓	0.1032061	1.094	247.1185	0.460	0.1845935	23.639	3.30872	1.123	12.13207	1.086	0.29192 ± 0.23526	883.3 ± 711.7	7.56	2.87	0.0055 ± 0.0001
14D33154	25.0 %	✓	0.0741806	1.449	206.9458	0.485	0.1217283	37.307	2.69617	1.416	6.66426	1.981	0.34821 ± 0.27614	1053.6 ± 835.3	13.36	2.33	0.0053 ± 0.0002
		Σ	3.6948432	0.173	9550.9692	0.101	2.4454803	8.459	116.04940	0.147	392.84150	0.154					

Information on Analysis and Constants Used in Calculations

Project = **MULLIONS (13-INT-09)**
Sample = **RR1310-D44-26**
Material = **Plagioclase**
Location = **Lau Basin**
Region = **South Pacific**
Analyst = **Dan Miggins**
Irradiation = **14-OSU-04 (4C14-14)**
Position = **X: 0 | Y: 0 | Z/H: 29.22 mm**
FCT-NM Age = **28.201 ± 0.023 Ma**
FCT-NM Reference = **Kuiper et al (2008)**
FCT-NM 40Ar/39Ar Ratio = **9.39058 ± 0.01183**
FCT-NM J-value = **0.00167374 ± 0.00000211**
Air Shot 40Ar/36Ar = **303.5610 ± 0.5069**
Air Shot MDF = **0.99335272 ± 0.00070648 (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-D44-26**
Rock Class = **Igneous>Volcanic>Mafic**
Lithology = **Basalt**
Lat-Lon = **14°39.6'S - 174°51.6'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		0.42268 ± 0.03806 (± 9.00%)	**1278.8 ± 115.1 (± 9.00%)**	0.50	100.00	0.0049 ± 0.0001
				97%	21	
		Full External Error ± 118.7		1.63	2σ Confidence Limit	
		Analytical Error ± 115.1		1.0000	Error Magnification	
Total Fusion Age		0.42003 ± 0.03874 (± 9.22%)	**1270.9 ± 117.2 (± 9.22%)**		21	0.0049 ± 0.0000
		Full External Error ± 120.7				
		Analytical Error ± 117.2				
Normal Isochron	**292.77 ± 8.74 (± 2.98%)**	0.44653 ± 0.09512 (± 21.30%)	**1351.0 ± 287.7 (± 21.29%)**	0.51	100.00	
				96%	21	
		Full External Error ± 289.3		1.65	2σ Confidence Limit	
		Analytical Error ± 287.7		1.0000	Error Magnification	
				5	Number of Iterations	
				0.0000009638	Convergence	
Inverse Isochron	**292.70 ± 8.69 (± 2.97%)**	0.45084 ± 0.08874 (± 19.68%)	**1364.0 ± 268.4 (± 19.68%)**	0.51	100.00	
				96%	21	
		Full External Error ± 270.2		1.65	2σ Confidence Limit	
		Analytical Error ± 268.4		1.0000	Error Magnification	
Notes				3	Number of Iterations	
100% length plateau.				0.0032581620	Convergence	
				16%	Spreading Factor	

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
14D33126	1.8 %	✓	0.0393000	51.5022	0.0228122	0.68199	0.421518	1869.7 ± 2936.0	3.50	0.62	0.0057 ± 0.0006
14D33127	2.2 %	✓	0.0508655	85.6515	0.0354420	1.10758	0.451220	1232.6 ± 1816.3	2.91	1.01	0.0056 ± 0.0004
14D33129	2.8 %	✓	0.0595466	208.8266	0.0135499	2.49281	0.951434	1154.8 ± 881.9	5.13	2.27	0.0051 ± 0.0002
14D33130	3.4 %	✓	0.0587396	213.4254	0.0090872	2.46956	0.891824	1092.7 ± 931.6	4.89	2.25	0.0050 ± 0.0002
14D33131	4.0 %	✓	0.0481588	263.0400	0.0000000	3.02132	1.150171	1151.8 ± 794.9	7.48	2.76	0.0049 ± 0.0001
14D33133	4.6 %	✓	0.0599597	494.7640	0.0000000	5.59825	1.675513	905.6 ± 507.7	8.64	5.11	0.0049 ± 0.0001
14D33134	5.2 %	✓	0.0538260	585.7312	0.0591199	6.45268	2.898662	1359.1 ± 455.4	15.41	5.89	0.0047 ± 0.0001
14D33136	5.8 %	✓	0.0799883	595.0013	0.0000000	6.47544	2.703405	1263.1 ± 478.2	10.26	5.91	0.0047 ± 0.0001
14D33137	6.6 %	✓	0.0497833	618.6217	0.0292537	6.88370	2.861295	1257.6 ± 440.9	16.28	6.28	0.0048 ± 0.0001
14D33139	7.4 %	✓	0.0782040	709.0518	0.0509736	7.87942	3.524127	1353.2 ± 411.3	13.23	7.19	0.0048 ± 0.0001
14D33140	8.4 %	✓	0.0818188	896.8463	0.0000000	10.03644	4.431967	1336.0 ± 370.4	15.49	9.16	0.0048 ± 0.0001
14D33142	9.4 %	✓	0.0905825	847.4581	0.0286358	9.61032	4.724328	1487.3 ± 373.8	15.00	8.77	0.0049 ± 0.0001
14D33143	10.6 %	✓	0.0649134	791.3763	0.0250244	8.94543	4.641252	1569.7 ± 380.1	19.47	8.16	0.0049 ± 0.0001
14D33145	11.8 %	✓	0.0639659	590.1676	0.0315171	6.74197	2.275925	1021.4 ± 454.9	10.74	6.15	0.0049 ± 0.0001
14D33146	13.5 %	✓	0.0628357	620.0391	0.0430114	7.20153	3.129254	1314.7 ± 442.7	14.42	6.57	0.0050 ± 0.0001
14D33148	15.1 %	✓	0.0362422	461.4193	0.0526340	5.37195	2.474048	1393.4 ± 513.6	18.76	4.90	0.0050 ± 0.0001
14D33149	16.6 %	✓	0.0443374	427.0616	0.0963298	5.11398	1.957804	1158.3 ± 535.8	13.00	4.67	0.0051 ± 0.0001
14D33150	18.3 %	✓	0.0550356	372.8759	0.0898405	4.57094	1.709619	1131.7 ± 595.2	9.51	4.17	0.0053 ± 0.0001
14D33152	20.3 %	✓	0.0376430	264.0450	0.0940870	3.26700	1.363809	1263.0 ± 688.3	10.92	2.98	0.0053 ± 0.0001
14D33153	22.5 %	✓	0.0379409	247.1185	0.1383068	3.14240	0.917344	883.3 ± 711.7	7.56	2.87	0.0055 ± 0.0001
14D33154	25.0 %	✓	0.0195308	206.9458	0.0861039	2.55690	0.890327	1053.6 ± 835.3	13.36	2.33	0.0053 ± 0.0002
		Σ	1.1732181	9550.9692	0.9057293	109.62160	46.044847				

Information on Analysis

Project = **MULLIONS (13-INT-09)**
Sample = **RR1310-D44-26**
Material = **Plagioclase**
Location = **Lau Basin**
Region = **South Pacific**
Analyst = **Dan Miggins**
Irradiation = **14-OSU-04 (4C14-14)**
J = **0.00167374 ± 0.00000211**
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	0.42268	± 0.03806	**1278.8**	**± 115.1**	0.50	100.00	
		± 9.00%		**± 9.00%**	97%	21	0.0049 ± 0.0001
				Full External Error ± 118.7	1.63	2σ Confidence Limit	
				Analytical Error ± 115.1	1.0000	Error Magnification	
Total Fusion Age	0.42003	± 0.03874	**1270.9**	**± 117.2**			
		± 9.22%		**± 9.22%**		21	0.0049 ± 0.0000
				Full External Error ± 120.7			
				Analytical Error ± 117.2			

Normal Isochron			39(k)/36(a) ± 2σ	40(a+r)/36(a) ± 2σ	r.i.
14D33126	1.8 %	✓	17.35 ± 2.07	306.23 ± 17.33	0.4034
14D33127	2.2 %	✓	21.77 ± 1.71	304.37 ± 13.39	0.4765
14D33129	2.8 %	✓	41.86 ± 2.01	311.48 ± 12.77	0.7490
14D33130	3.4 %	✓	42.04 ± 2.12	310.68 ± 13.53	0.7695
14D33131	4.0 %	✓	62.74 ± 3.61	319.38 ± 17.67	0.8683
14D33133	4.6 %	✓	93.37 ± 4.91	323.44 ± 17.04	0.9348
14D33134	5.2 %	✓	119.88 ± 7.18	349.35 ± 21.11	0.9552
14D33136	5.8 %	✓	80.95 ± 3.52	329.30 ± 14.16	0.9360
14D33137	6.6 %	✓	138.27 ± 9.22	352.98 ± 23.81	0.9617
14D33139	7.4 %	✓	100.75 ± 4.63	340.56 ± 15.66	0.9544
14D33140	8.4 %	✓	122.67 ± 6.16	349.67 ± 17.65	0.9710
14D33142	9.4 %	✓	106.09 ± 4.67	347.65 ± 15.32	0.9650
14D33143	10.6 %	✓	137.81 ± 7.93	367.00 ± 21.29	0.9712
14D33145	11.8 %	✓	105.40 ± 5.58	331.08 ± 17.63	0.9513
14D33146	13.5 %	✓	114.61 ± 6.41	345.30 ± 19.43	0.9591
14D33148	15.1 %	✓	148.22 ± 12.27	363.76 ± 30.51	0.9548
14D33149	16.6 %	✓	115.34 ± 7.78	339.66 ± 23.23	0.9465
14D33150	18.3 %	✓	83.05 ± 4.58	326.56 ± 17.91	0.9240
14D33152	20.3 %	✓	86.79 ± 5.75	331.73 ± 21.86	0.8904
14D33153	22.5 %	✓	82.82 ± 5.46	319.68 ± 20.87	0.8804
14D33154	25.0 %	✓	130.92 ± 15.35	341.09 ± 40.96	0.9129

Results	40(a)/36(a) ± 2σ	40(r)/39(k) ± 2σ	Age ± 2σ (ka)	MSWD
Normal Isochron	**292.77 ± 8.74 ± 2.98%**	0.44653 ± 0.09512 ± 21.30%	**1351.0 ± 287.7 ± 21.29%**	0.51 96%
			Full External Error ± 289.3	
			Analytical Error ± 287.7	

Statistics				
	2σ Confidence Limit	1.65	Convergence	0.000000963811
	Error Magnification	1.0000	Number of Iterations	5
	Number of Data Points	21	Calculated Line	Weighted York-2

Inverse Isochron			39(k)/40(a+r) ± 2σ		36(a)/40(a+r) ± 2σ		r.i.
14D33126	1.8 %	✓	0.0566692	± 0.0061935	0.00326557	± 0.00018476	0.0782
14D33127	2.2 %	✓	0.0715401	± 0.0049672	0.00328547	± 0.00014458	0.0943
14D33129	2.8 %	✓	0.1344018	± 0.0043342	0.00321050	± 0.00013163	0.1544
14D33130	3.4 %	✓	0.1353230	± 0.0044009	0.00321872	± 0.00014014	0.1469
14D33131	4.0 %	✓	0.1964307	± 0.0057071	0.00313104	± 0.00017319	0.1830
14D33133	4.6 %	✓	0.2886646	± 0.0054878	0.00309173	± 0.00016285	0.1839
14D33134	5.2 %	✓	0.3431502	± 0.0061828	0.00286244	± 0.00017295	0.1785
14D33136	5.8 %	✓	0.2458408	± 0.0038036	0.00303677	± 0.00013061	0.1504
14D33137	6.6 %	✓	0.3917366	± 0.0072807	0.00283306	± 0.00019114	0.1804
14D33139	7.4 %	✓	0.2958469	± 0.0041035	0.00293631	± 0.00013504	0.1559
14D33140	8.4 %	✓	0.3508090	± 0.0042554	0.00285985	± 0.00014438	0.1393
14D33142	9.4 %	✓	0.3051723	± 0.0035547	0.00287641	± 0.00012672	0.1374
14D33143	10.6 %	✓	0.3754929	± 0.0052073	0.00272480	± 0.00015809	0.1519
14D33145	11.8 %	✓	0.3183500	± 0.0052787	0.00302042	± 0.00016086	0.1746
14D33146	13.5 %	✓	0.3319102	± 0.0053250	0.00289603	± 0.00016294	0.1651
14D33148	15.1 %	✓	0.4074716	± 0.0102129	0.00274903	± 0.00023058	0.1930
14D33149	16.6 %	✓	0.3395848	± 0.0075504	0.00294415	± 0.00020134	0.2027
14D33150	18.3 %	✓	0.2543277	± 0.0054527	0.00306219	± 0.00016797	0.1825
14D33152	20.3 %	✓	0.2616253	± 0.0080927	0.00301450	± 0.00019862	0.2233
14D33153	22.5 %	✓	0.2590842	± 0.0083194	0.00312815	± 0.00020426	0.2251
14D33154	25.0 %	✓	0.3838224	± 0.0190457	0.00293181	± 0.00035211	0.2635

Results	40(a)/36(a) ± 2σ		40(r)/39(k) ± 2σ		Age ± 2σ (ka)		MSWD
Inverse Isochron	**292.70**	**± 8.69** **± 2.97%**	0.45084	± 0.08874 ± 19.68%	**1364.0**	**± 268.4** **± 19.68%**	0.51 96%
					Full External Error	± 270.2	
					Analytical Error	± 268.4	

Statistics				
	2σ Confidence Limit	1.65	Convergence	0.0032581620
	Error Magnification	1.0000	Number of Iterations	3
	Number of Data Points	21	Calculated Line	Weighted York-2
	Spreading Factor	15.8%		

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
14D33126	1.8 %	✓	0.0393000	2.61	0.0000000	0.00	0.0135966	1.22	0.0000043	200.62	51.5022	1.22	0.0073452	2.61	0.0000000	0.00	0.0077611	5.35	0.0007159	1.22	0.0228122	200.62	0.68199	5.35	0.0346610	1.22	0.421518	78.37	11.61314	2.61	0.0000000	0.00	0.0006888	5.35
14D33127	2.2 %	✓	0.0508655	2.03	0.0000000	0.00	0.0226120	0.81	0.0000066	132.65	85.6515	0.81	0.0095068	2.03	0.0000000	0.00	0.0126043	3.37	0.0011906	0.81	0.0354420	132.66	1.10758	3.37	0.0576435	0.81	0.451220	73.63	15.03075	2.03	0.0000000	0.00	0.0011187	3.37
14D33129	2.8 %	✓	0.0595466	1.92	0.0000000	0.00	0.0551302	0.49	0.0000025	331.01	208.8266	0.49	0.0111293	1.92	0.0000000	0.00	0.0283682	1.45	0.0029027	0.49	0.0135499	331.02	2.49281	1.45	0.1405403	0.49	0.951434	38.17	17.59601	1.92	0.0000000	0.00	0.0025177	1.45
14D33130	3.4 %	✓	0.0587396	2.05	0.0000000	0.00	0.0563443	0.48	0.0000017	496.84	213.4254	0.48	0.0109784	2.05	0.0000000	0.00	0.0281036	1.46	0.0029666	0.48	0.0090872	496.84	2.46956	1.46	0.1436353	0.48	0.891824	42.62	17.35756	2.05	0.0000000	0.00	0.0024943	1.46
14D33131	4.0 %	✓	0.0481588	2.63	0.0000000	0.00	0.0694426	0.45	0.0000000	0.00	263.0400	0.45	0.0090009	2.63	0.0000000	0.00	0.0343826	1.17	0.0036563	0.45	0.0000000	0.00	3.02132	1.17	0.1770259	0.45	1.150171	34.50	14.23094	2.63	0.0000000	0.00	0.0030515	1.17
14D33133	4.6 %	✓	0.0599597	2.54	0.0000000	0.00	0.1306177	0.41	0.0000000	0.00	494.7640	0.41	0.0112065	2.54	0.0000000	0.00	0.0637081	0.67	0.0068772	0.41	0.0000000	0.00	5.59825	0.67	0.3329762	0.41	1.675513	28.03	17.71810	2.54	0.0000000	0.00	0.0056542	0.67
14D33134	5.2 %	✓	0.0538260	2.94	0.0000000	0.00	0.1546330	0.40	0.0000110	75.77	585.7312	0.40	0.0100601	2.94	0.0000000	0.00	0.0734315	0.57	0.0081417	0.40	0.0591199	75.78	6.45268	0.57	0.3941971	0.40	2.898662	16.75	15.90557	2.94	0.0000000	0.00	0.0065172	0.57
14D33136	5.8 %	✓	0.0799883	2.09	0.0000000	0.00	0.1570803	0.40	0.0000000	0.00	595.0013	0.40	0.0149498	2.09	0.0000000	0.00	0.0736905	0.59	0.0082705	0.40	0.0000000	0.00	6.47544	0.59	0.4004359	0.40	2.703405	18.92	23.63655	2.09	0.0000000	0.00	0.0065402	0.59
14D33137	6.6 %	✓	0.0497833	3.29	0.0000000	0.00	0.1633161	0.40	0.0000055	154.82	618.6217	0.40	0.0093045	3.29	0.0000000	0.00	0.0783365	0.55	0.0085988	0.40	0.0292537	154.82	6.88370	0.55	0.4163324	0.40	2.861295	17.53	14.71096	3.29	0.0000000	0.00	0.0069525	0.55
14D33139	7.4 %	✓	0.0782040	2.24	0.0000000	0.00	0.1871897	0.40	0.0000095	90.98	709.0518	0.40	0.0146163	2.24	0.0000000	0.00	0.0896678	0.48	0.0098558	0.40	0.0509736	90.99	7.87942	0.48	0.4771919	0.40	3.524127	15.19	23.10929	2.24	0.0000000	0.00	0.0079582	0.48
14D33140	8.4 %	✓	0.0818188	2.48	0.0000000	0.00	0.2367674	0.40	0.0000000	0.00	896.8463	0.40	0.0152919	2.48	0.0000000	0.00	0.1142147	0.39	0.0124662	0.40	0.0000000	0.00	10.03644	0.39	0.6035776	0.40	4.431967	13.86	24.17745	2.48	0.0000000	0.00	0.0101368	0.39
14D33142	9.4 %	✓	0.0905825	2.16	0.0000000	0.00	0.2237289	0.40	0.0000054	156.91	847.4581	0.40	0.0169299	2.16	0.0000000	0.00	0.1093654	0.40	0.0117797	0.40	0.0286358	156.91	9.61032	0.40	0.5703393	0.40	4.724328	12.57	26.76712	2.16	0.0000000	0.00	0.0097064	0.40
14D33143	10.6 %	✓	0.0649134	2.85	0.0000000	0.00	0.2089233	0.40	0.0000047	178.72	791.3763	0.40	0.0121323	2.85	0.0000000	0.00	0.1017990	0.42	0.0110001	0.40	0.0250244	178.72	8.94543	0.42	0.5325962	0.40	4.641252	12.11	19.18192	2.85	0.0000000	0.00	0.0090349	0.42
14D33145	11.8 %	✓	0.0639659	2.59	0.0000000	0.00	0.1558042	0.40	0.0000059	146.87	590.1676	0.40	0.0119552	2.59	0.0000000	0.00	0.0767236	0.55	0.0082033	0.40	0.0315171	146.87	6.74197	0.55	0.3971828	0.40	2.275925	22.27	18.90193	2.59	0.0000000	0.00	0.0068094	0.55
14D33146	13.5 %	✓	0.0628357	2.75	0.0000000	0.00	0.1636903	0.40	0.0000080	105.59	620.0391	0.40	0.0117440	2.75	0.0000000	0.00	0.0819534	0.52	0.0086185	0.40	0.0430114	105.59	7.20153	0.52	0.4172863	0.40	3.129254	16.84	18.56796	2.75	0.0000000	0.00	0.0072735	0.52
14D33148	15.1 %	✓	0.0362422	4.07	0.0000000	0.00	0.1218147	0.41	0.0000098	83.11	461.4193	0.41	0.0067737	4.07	0.0000000	0.00	0.0611328	0.75	0.0064137	0.41	0.0526340	83.12	5.37195	0.75	0.3105352	0.41	2.474048	18.42	10.70956	4.07	0.0000000	0.00	0.0054257	0.75
14D33149	16.6 %	✓	0.0443374	3.30	0.0000000	0.00	0.1127443	0.41	0.0000180	45.72	427.0616	0.41	0.0082867	3.30	0.0000000	0.00	0.0581971	0.68	0.0059362	0.41	0.0963298	45.73	5.11398	0.68	0.2874125	0.41	1.957804	23.12	13.10170	3.30	0.0000000	0.00	0.0051651	0.68
14D33150	18.3 %	✓	0.0550356	2.64	0.0000000	0.00	0.0984392	0.43	0.0000168	48.48	372.8759	0.43	0.0102861	2.64	0.0000000	0.00	0.0520173	0.78	0.0051830	0.43	0.0898405	48.48	4.57094	0.78	0.2509455	0.43	1.709619	26.29	16.26301	2.64	0.0000000	0.00	0.0046166	0.78
14D33152	20.3 %	✓	0.0376430	3.12	0.0000000	0.00	0.0697079	0.46	0.0000176	49.33	264.0450	0.46	0.0070355	3.12	0.0000000	0.00	0.0371784	1.12	0.0036702	0.46	0.0940870	49.34	3.26700	1.12	0.1777023	0.46	1.363809	27.23	11.12351	3.12	0.0000000	0.00	0.0032997	1.12
14D33153	22.5 %	✓	0.0379409	3.08	0.0000000	0.00	0.0652393	0.46	0.0000259	31.57	247.1185	0.46	0.0070912	3.08	0.0000000	0.00	0.0357606	1.18	0.0034349	0.46	0.1383068	31.58	3.14240	1.18	0.1663107	0.46	0.917344	40.28	11.21155	3.08	0.0000000	0.00	0.0031738	1.18
14D33154	25.0 %	✓	0.0195308	5.67	0.0000000	0.00	0.0546337	0.48	0.0000161	52.76	206.9458	0.48	0.0036503	5.67	0.0000000	0.00	0.0290975	1.49	0.0028765	0.48	0.0861039	52.76	2.55690	1.49	0.1392745	0.48	0.890327	39.62	5.77135	5.67	0.0000000	0.00	0.0025825	1.49
		Σ	1.1732181	0.59	0.0000000	0.00	2.5214559	0.10	0.0001693	20.55	9550.9692	0.10	0.2192745	0.59	0.0000000	0.00	1.2474938	0.16	0.1327585	0.10	0.9057293	20.56	109.62160	0.16	6.4278022	0.10	46.044847	4.61	346.68594	0.59	0.0000000	0.00	0.1107178	0.16
		Σ							3.6948432	0.20	9550.9692	0.10									2.5052561	7.43			116.04940	0.15							392.84150	0.75

Additional Parameters			40Ar/39Ar	1σ	37Ar/39Ar	1σ	36Ar/39Ar	1σ	Time (days)	37Ar (decay)	39Ar (decay)	40Ar (moles)
14D33126	1.8 %	✓	16.793786	0.875108	71.864640	3.764739	0.073816	0.004016	114.914	9.701176	1.00081204	5.777E-13
14D33127	2.2 %	✓	13.287636	0.439839	73.506441	2.426254	0.063064	0.002198	114.923	9.702906	1.00081211	7.432E-13
14D33129	2.8 %	✓	7.044244	0.108719	79.300695	1.151730	0.043549	0.000730	114.940	9.706234	1.00081223	8.904E-13
14D33130	3.4 %	✓	6.984503	0.108568	81.672159	1.191512	0.044040	0.000755	114.949	9.707832	1.00081229	8.761E-13
14D33131	4.0 %	✓	4.810035	0.067365	82.242470	0.983504	0.036769	0.000559	114.958	9.709563	1.00081235	7.384E-13
14D33133	4.6 %	✓	3.270701	0.030232	83.416789	0.625670	0.032131	0.000314	114.975	9.712893	1.00081248	9.312E-13
14D33134	5.2 %	✓	2.747349	0.024175	85.547230	0.575078	0.030447	0.000268	114.983	9.714492	1.00081253	9.029E-13
14D33136	5.8 %	✓	3.831731	0.028633	86.534666	0.594540	0.034478	0.000295	115.001	9.717824	1.00081266	1.265E-12
14D33137	6.6 %	✓	2.408101	0.021933	84.742365	0.554331	0.029192	0.000254	115.009	9.719423	1.00081272	8.438E-13
14D33139	7.4 %	✓	3.188061	0.021493	84.849237	0.513936	0.031760	0.000238	115.026	9.722757	1.00081284	1.279E-12
14D33140	8.4 %	✓	2.689803	0.015917	84.289917	0.457702	0.029942	0.000202	115.035	9.724491	1.00081290	1.374E-12
14D33142	9.4 %	✓	3.094217	0.017527	83.242004	0.457835	0.030874	0.000208	115.052	9.727693	1.00081302	1.512E-12
14D33143	10.6 %	✓	2.514469	0.017071	83.495895	0.467952	0.028892	0.000208	115.061	9.729427	1.00081308	1.144E-12
14D33145	11.8 %	✓	2.967392	0.023996	82.666313	0.543308	0.030785	0.000267	115.078	9.732764	1.00081321	1.017E-12
14D33146	13.5 %	✓	2.848802	0.022320	81.382645	0.517691	0.029734	0.000255	115.087	9.734367	1.00081326	1.042E-12
14D33148	15.1 %	✓	2.320999	0.028522	81.200303	0.663047	0.027816	0.000313	115.104	9.737705	1.00081339	6.331E-13
14D33149	16.6 %	✓	2.789035	0.030382	79.065140	0.606705	0.029085	0.000318	115.113	9.739308	1.00081345	7.231E-13
14D33150	18.3 %	✓	3.728262	0.038857	77.329910	0.661068	0.031832	0.000373	115.122	9.741045	1.00081351	8.629E-13
14D33152	20.3 %	✓	3.626038	0.054569	76.652545	0.886083	0.031169	0.000466	115.139	9.744386	1.00081363	5.995E-13
14D33153	22.5 %	✓	3.666700	0.057271	74.687133	0.906014	0.031192	0.000489	115.147	9.745990	1.00081369	5.823E-13
14D33154	25.0 %	✓	2.471746	0.060179	76.755351	1.148573	0.027513	0.000557	115.156	9.747728	1.00081376	3.199E-13

Procedure Blanks		36Ar ± 1σ (SE) [fA]	37Ar ± 1σ (SE) [fA]	38Ar ± 1σ (SE) [fA]	39Ar ± 1σ (SE) [fA]	40Ar ± 1σ (SE) [fA]
14D33126	1.8 %	0.0236733 ± 0.0006310	0.0091548 ± 0.0481352	0.0921110 ± 0.0314153	0.0289167 ± 0.0254602	6.7549608 ± 0.1286113
14D33127	2.2 %	0.0237220 ± 0.0006310	0.0088968 ± 0.0481352	0.0872901 ± 0.0314153	0.0309233 ± 0.0254602	6.7769235 ± 0.1286113
14D33129	2.8 %	0.0237012 ± 0.0006310	0.0098547 ± 0.0481352	0.0792335 ± 0.0314153	0.0272833 ± 0.0254602	6.8103795 ± 0.1286113
14D33130	3.4 %	0.0236485 ± 0.0006310	0.0108755 ± 0.0481352	0.0759340 ± 0.0314153	0.0230472 ± 0.0254602	6.8216401 ± 0.1286113
14D33131	4.0 %	0.0235673 ± 0.0006310	0.0123029 ± 0.0481352	0.0727749 ± 0.0314153	0.0173048 ± 0.0254602	6.8299473 ± 0.1286113
14D33133	4.6 %	0.0233601 ± 0.0006310	0.0157197 ± 0.0481352	0.0679143 ± 0.0314153	0.0045816 ± 0.0254602	6.8338876 ± 0.1286113
14D33134	5.2 %	0.0232449 ± 0.0006310	0.0175453 ± 0.0481352	0.0661488 ± 0.0314153	0.0016213 ± 0.0254602	6.8300196 ± 0.1286113
14D33136	5.8 %	0.0229902 ± 0.0006310	0.0213942 ± 0.0481352	0.0636531 ± 0.0314153	0.0132784 ± 0.0254602	6.8101578 ± 0.1286113
14D33137	6.6 %	0.0228669 ± 0.0006310	0.0231304 ± 0.0481352	0.0630227 ± 0.0314153	0.0178290 ± 0.0254602	6.7952358 ± 0.1286113
14D33139	7.4 %	0.0226213 ± 0.0006310	0.0261560 ± 0.0481352	0.0628920 ± 0.0314153	0.0242919 ± 0.0254602	6.7541887 ± 0.1286113
14D33140	8.4 %	0.0225041 ± 0.0006310	0.0272542 ± 0.0481352	0.0634555 ± 0.0314153	0.0258151 ± 0.0254602	6.7283045 ± 0.1286113
14D33142	9.4 %	0.0223146 ± 0.0006310	0.0280639 ± 0.0481352	0.0656311 ± 0.0314153	0.0251200 ± 0.0254602	6.6746086 ± 0.1286113
14D33143	10.6 %	0.0222288 ± 0.0006310	0.0276799 ± 0.0481352	0.0674244 ± 0.0314153	0.0228871 ± 0.0254602	6.6435331 ± 0.1286113
14D33145	11.8 %	0.0221000 ± 0.0006310	0.0249081 ± 0.0481352	0.0720875 ± 0.0314153	0.0153578 ± 0.0254602	6.5833644 ± 0.1286113
14D33146	13.5 %	0.0220554 ± 0.0006310	0.0224696 ± 0.0481352	0.0748934 ± 0.0314153	0.0105149 ± 0.0254602	6.5558279 ± 0.1286113
14D33148	15.1 %	0.0219960 ± 0.0006310	0.0146643 ± 0.0481352	0.0819215 ± 0.0314153	0.0010867 ± 0.0254602	6.5057695 ± 0.1286113
14D33149	16.6 %	0.0219818 ± 0.0006310	0.0094479 ± 0.0481352	0.0858625 ± 0.0314153	0.0068654 ± 0.0254602	6.4871634 ± 0.1286113
14D33150	18.3 %	0.0219750 ± 0.0006310	0.0025979 ± 0.0481352	0.0905475 ± 0.0314153	0.0128200 ± 0.0254602	6.4725319 ± 0.1286113
14D33152	20.3 %	0.0219792 ± 0.0006310	0.0144472 ± 0.0481352	0.1007715 ± 0.0314153	0.0217727 ± 0.0254602	6.4655435 ± 0.1286113
14D33153	22.5 %	0.0219848 ± 0.0006310	0.0246133 ± 0.0481352	0.1062466 ± 0.0314153	0.0240512 ± 0.0254602	6.4745834 ± 0.1286113
14D33154	25.0 %	0.0219897 ± 0.0006310	0.0372093 ± 0.0481352	0.1125934 ± 0.0314153	0.0243435 ± 0.0254602	6.4954156 ± 0.1286113

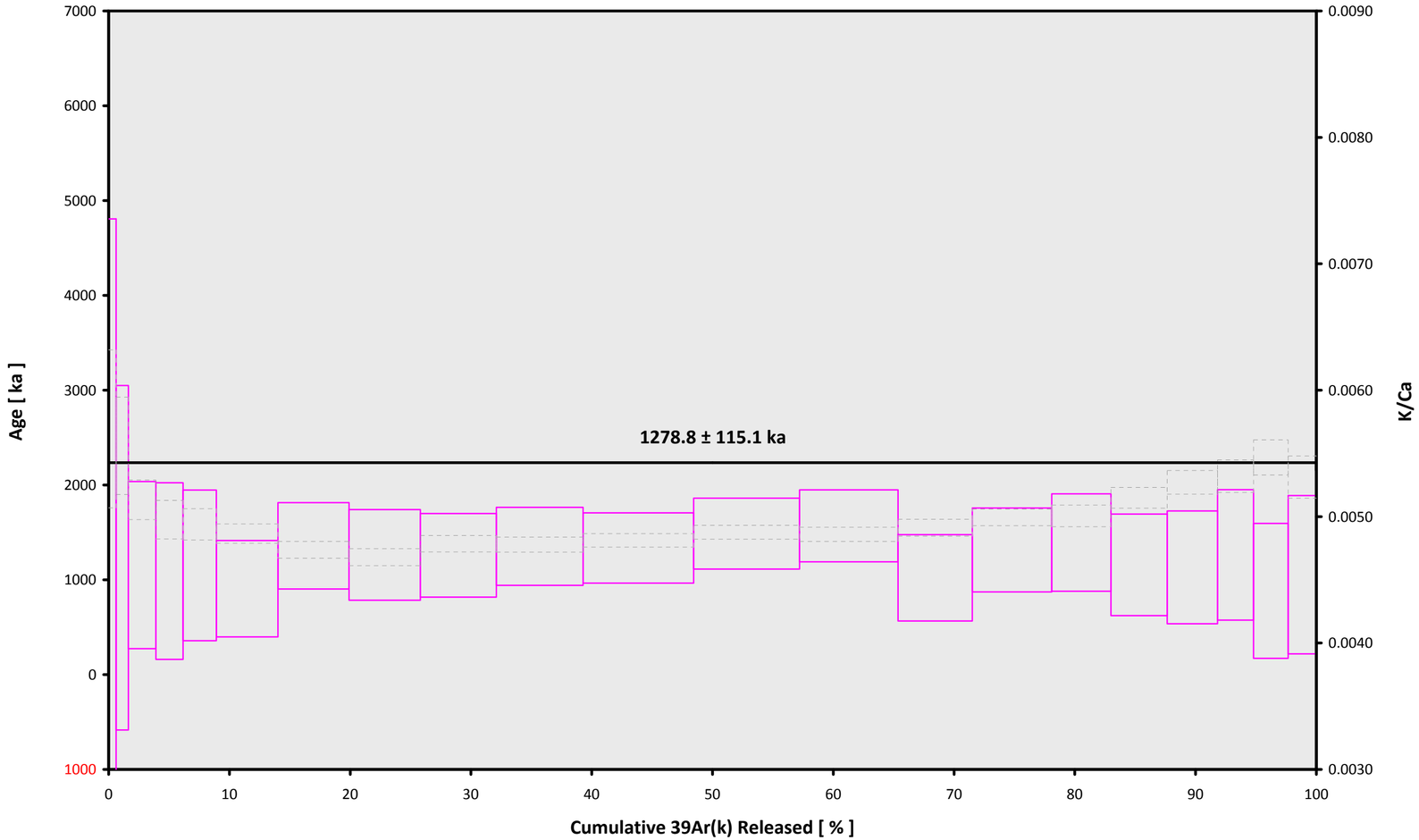
Intercept Values		36Ar ± 1σ (SE) [fA]	r2	Regression (type,n)	37Ar ± 1σ (SE) [fA]	r2	Regression (type,n)	38Ar ± 1σ (SE) [fA]	r2	Regression (type,n)	39Ar ± 1σ (SE) [fA]	r2	Regression (type,n)	40Ar ± 1σ (SE) [fA]	r2	Regression (type,n)
14D33126	1.8 %	0.0740506 ± 0.0007120	0.1331	EXP 150 of 150	5.212298 ± 0.036447	0.4423	EXP 150 of 150	0.0539902 ± 0.0324330	0.0002	EXP 150 of 150	0.6824061 ± 0.0257735	0.0009	EXP 150 of 150	18.823526 ± 0.032628	0.9931	EXP 150 of 150
14D33127	2.2 %	0.0937007 ± 0.0007050	0.0048	EXP 150 of 150	8.660530 ± 0.038309	0.6564	EXP 150 of 150	0.0293273 ± 0.0341274	0.0035	EXP 150 of 150	1.1256318 ± 0.0268408	0.0237	EXP 150 of 150	22.302738 ± 0.028536	0.9940	EXP 150 of 150
14D33129	2.8 %	0.1329100 ± 0.0007895	0.0591	EXP 149 of 150	21.096126 ± 0.038446	0.9102	EXP 150 of 150	0.0240272 ± 0.0311655	0.0001	EXP 150 of 150	2.5864739 ± 0.0250410	0.2763	EXP 150 of 150	25.411539 ± 0.033380	0.9912	EXP 150 of 150
14D33130	3.4 %	0.1332442 ± 0.0008684	0.0323	EXP 150 of 150	21.557962 ± 0.037286	0.9181	EXP 150 of 150	0.0254779 ± 0.0315804	0.0015	EXP 150 of 150	2.5707047 ± 0.0249820	0.1396	EXP 150 of 150	25.123886 ± 0.029594	0.9930	EXP 150 of 150
14D33131	4.0 %	0.1355588 ± 0.0009282	0.0164	EXP 150 of 150	26.563668 ± 0.036157	0.9452	EXP 150 of 150	0.0327723 ± 0.0333479	0.0004	EXP 150 of 150	3.1572442 ± 0.0241374	0.3056	EXP 150 of 150	22.256564 ± 0.030848	0.9929	EXP 150 of 150
14D33133	4.6 %	0.2048465 ± 0.0010843	0.2989	EXP 150 of 150	49.940283 ± 0.040961	0.9796	EXP 150 of 150	0.0010985 ± 0.0308135	0.0014	EXP 150 of 150	5.8825129 ± 0.0264695	0.6524	EXP 150 of 150	26.286697 ± 0.029537	0.9929	EXP 150 of 150
14D33134	5.2 %	0.2217703 ± 0.0010894	0.3851	EXP 150 of 150	59.111502 ± 0.038238	0.9872	EXP 150 of 150	0.0826005 ± 0.0310834	0.0141	EXP 150 of 150	6.7975493 ± 0.0257302	0.6933	EXP 150 of 150	25.692686 ± 0.027108	0.9940	EXP 150 of 150
14D33136	5.8 %	0.2487500 ± 0.0011597	0.3813	EXP 150 of 150	60.030019 ± 0.042432	0.9847	EXP 150 of 150	0.0075218 ± 0.0324779	0.0281	EXP 150 of 150	6.8379866 ± 0.0276404	0.6528	EXP 150 of 150	33.229362 ± 0.030303	0.9892	EXP 150 of 150
14D33137	6.6 %	0.2258061 ± 0.0011361	0.3963	EXP 150 of 150	62.403711 ± 0.044583	0.9843	EXP 150 of 150	0.0608027 ± 0.0317755	0.0001	EXP 149 of 150	7.2635369 ± 0.0267150	0.7355	EXP 150 of 150	24.422958 ± 0.031933	0.9910	EXP 150 of 150
14D33139	7.4 %	0.2753641 ± 0.0011613	0.5222	EXP 150 of 150	71.501018 ± 0.044211	0.9883	EXP 150 of 150	0.1000268 ± 0.0332642	0.0265	EXP 150 of 150	8.3187162 ± 0.0271117	0.7862	EXP 150 of 150	33.469091 ± 0.034460	0.9866	EXP 150 of 150
14D33140	8.4 %	0.3258929 ± 0.0013285	0.5755	EXP 150 of 150	90.416333 ± 0.045437	0.9921	EXP 150 of 150	0.0752440 ± 0.0294733	0.0032	EXP 150 of 150	10.5866588 ± 0.0287103	0.8407	EXP 150 of 150	35.426845 ± 0.031778	0.9891	EXP 150 of 150
14D33142	9.4 %	0.3216376 ± 0.0012695	0.5863	EXP 149 of 150	85.411417 ± 0.039641	0.9933	EXP 150 of 150	0.0988637 ± 0.0312745	0.0006	EXP 150 of 150	10.1300166 ± 0.0278916	0.8328	EXP 150 of 150	38.262696 ± 0.032152	0.9865	EXP 150 of 150
14D33143	10.6 %	0.2830072 ± 0.0012256	0.4613	EXP 150 of 150	79.746440 ± 0.038738	0.9925	EXP 150 of 150	0.0805382 ± 0.0309833	0.0018	EXP 149 of 150	9.4303827 ± 0.0261612	0.8468	EXP 149 of 150	30.541507 ± 0.029921	0.9910	EXP 149 of 150
14D33145	11.8 %	0.2313922 ± 0.0011673	0.3994	EXP 150 of 150	59.454663 ± 0.037909	0.9873	EXP 150 of 150	0.0546051 ± 0.0331455	0.0019	EXP 150 of 150	7.1013857 ± 0.0260044	0.7292	EXP 150 of 150	27.826497 ± 0.028963	0.9912	EXP 150 of 150
14D33146	13.5 %	0.2377832 ± 0.0012307	0.3675	EXP 150 of 150	62.450004 ± 0.041988	0.9860	EXP 150 of 150	0.0685022 ± 0.0319445	0.0017	EXP 150 of 150	7.5726308 ± 0.0265495	0.7381	EXP 150 of 150	28.320216 ± 0.033027	0.9887	EXP 150 of 150
14D33148	15.1 %	0.1725225 ± 0.0010753	0.1475	EXP 150 of 150	46.455914 ± 0.038908	0.9784	EXP 150 of 150	0.0433452 ± 0.0295890	0.0084	EXP 150 of 150	5.6391076 ± 0.0302495	0.5634	EXP 150 of 150	19.731203 ± 0.034477	0.9897	EXP 150 of 150
14D33149	16.6 %	0.1715874 ± 0.0010781	0.2417	EXP 150 of 150	42.985573 ± 0.035787	0.9785	EXP 150 of 150	0.0806441 ± 0.0300060	0.0074	EXP 150 of 150	5.3543281 ± 0.0231342	0.6690	EXP 150 of 150	21.593405 ± 0.032062	0.9908	EXP 150 of 150
14D33150	18.3 %	0.1681446 ± 0.0010872	0.1230	EXP 150 of 150	37.519203 ± 0.040691	0.9648	EXP 150 of 150	0.0646882 ± 0.0293013	0.0075	EXP 150 of 150	4.7731803 ± 0.0244952	0.6189	EXP 150 of 150	24.499393 ± 0.029777	0.9926	EXP 150 of 150
14D33152	20.3 %	0.1242259 ± 0.0008188	0.0096	EXP 150 of 150	26.543122 ± 0.040320	0.9341	EXP 150 of 150	0.0393126 ± 0.0333052	0.0054	EXP 150 of 150	3.3972919 ± 0.0257726	0.4435	EXP 150 of 150	18.990629 ± 0.036014	0.9908	EXP 150 of 150
14D33153	22.5 %	0.1202677 ± 0.0008225	0.0020	EXP 150 of 150	24.826398 ± 0.036056	0.9400	EXP 149 of 150	0.0758933 ± 0.0294414	0.0470	EXP 149 of 150	3.2600407 ± 0.0265644	0.3038	EXP 150 of 150	18.640132 ± 0.030205	0.9943	EXP 150 of 150
14D33154	25.0 %	0.0926316 ± 0.0007796	0.1080	EXP 150 of 150	20.770202 ± 0.035366	0.9176	EXP 150 of 150	0.0075169 ± 0.0319522	0.0010	EXP 150 of 150	2.6517656 ± 0.0279905	0.1762	EXP 150 of 150	13.178065 ± 0.031309	0.9952	EXP 150 of 150

Project Info		Analyst	Irradiation	X-pos	Y-pos	Z/H-pos	Project	Experiment	Nmb
14D33126	1.8 %	Dan Miggins	14-OSU-04	0.00	0.00	29.22	Lau Basin\Mullions (13-INT-09)	14D33125	01
14D33127	2.2 %	Dan Miggins	14-OSU-04	0.00	0.00	29.22	Lau Basin\Mullions (13-INT-09)	14D33125	01
14D33129	2.8 %	Dan Miggins	14-OSU-04	0.00	0.00	29.22	Lau Basin\Mullions (13-INT-09)	14D33125	01
14D33130	3.4 %	Chris Conatser	14-OSU-04	0.00	0.00	29.22	Lau Basin\Mullions (13-INT-09)	14D33125	01
14D33131	4.0 %	Chris Conatser	14-OSU-04	0.00	0.00	29.22	Lau Basin\Mullions (13-INT-09)	14D33125	01
14D33133	4.6 %	Chris Conatser	14-OSU-04	0.00	0.00	29.22	Lau Basin\Mullions (13-INT-09)	14D33125	01
14D33134	5.2 %	Chris Conatser	14-OSU-04	0.00	0.00	29.22	Lau Basin\Mullions (13-INT-09)	14D33125	01
14D33136	5.8 %	Chris Conatser	14-OSU-04	0.00	0.00	29.22	Lau Basin\Mullions (13-INT-09)	14D33125	01
14D33137	6.6 %	Chris Conatser	14-OSU-04	0.00	0.00	29.22	Lau Basin\Mullions (13-INT-09)	14D33125	01
14D33139	7.4 %	Chris Conatser	14-OSU-04	0.00	0.00	29.22	Lau Basin\Mullions (13-INT-09)	14D33125	01
14D33140	8.4 %	Chris Conatser	14-OSU-04	0.00	0.00	29.22	Lau Basin\Mullions (13-INT-09)	14D33125	01
14D33142	9.4 %	Chris Conatser	14-OSU-04	0.00	0.00	29.22	Lau Basin\Mullions (13-INT-09)	14D33125	01
14D33143	10.6 %	Chris Conatser	14-OSU-04	0.00	0.00	29.22	Lau Basin\Mullions (13-INT-09)	14D33125	01
14D33145	11.8 %	Chris Conatser	14-OSU-04	0.00	0.00	29.22	Lau Basin\Mullions (13-INT-09)	14D33125	01
14D33146	13.5 %	Chris Conatser	14-OSU-04	0.00	0.00	29.22	Lau Basin\Mullions (13-INT-09)	14D33125	01
14D33148	15.1 %	Chris Conatser	14-OSU-04	0.00	0.00	29.22	Lau Basin\Mullions (13-INT-09)	14D33125	01
14D33149	16.6 %	Chris Conatser	14-OSU-04	0.00	0.00	29.22	Lau Basin\Mullions (13-INT-09)	14D33125	01
14D33150	18.3 %	Chris Conatser	14-OSU-04	0.00	0.00	29.22	Lau Basin\Mullions (13-INT-09)	14D33125	01
14D33152	20.3 %	Chris Conatser	14-OSU-04	0.00	0.00	29.22	Lau Basin\Mullions (13-INT-09)	14D33125	01
14D33153	22.5 %	Chris Conatser	14-OSU-04	0.00	0.00	29.22	Lau Basin\Mullions (13-INT-09)	14D33125	01
14D33154	25.0 %	Chris Conatser	14-OSU-04	0.00	0.00	29.22	Lau Basin\Mullions (13-INT-09)	14D33125	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
14D33126	1.8 %	RR1310-D44-26	Plagioclase	Lau Basin	FCT-NM (4C14-14)	28.201	0.082	Kuiper et al (2008)	9.39058	0.126	0.00167374	0.126	303.561	0.167	0.99335272	0.071	1	4.8E-14	29	NOV	2014	13	56	1
14D33127	2.2 %	RR1310-D44-26	Plagioclase	Lau Basin	FCT-NM (4C14-14)	28.201	0.082	Kuiper et al (2008)	9.39058	0.126	0.00167374	0.126	303.561	0.167	0.99335272	0.071	1	4.8E-14	29	NOV	2014	14	9	1
14D33129	2.8 %	RR1310-D44-26	Plagioclase	Lau Basin	FCT-NM (4C14-14)	28.201	0.082	Kuiper et al (2008)	9.39058	0.126	0.00167374	0.126	303.561	0.167	0.99335272	0.071	1	4.8E-14	29	NOV	2014	14	34	1
14D33130	3.4 %	RR1310-D44-26	Plagioclase	Lau Basin	FCT-NM (4C14-14)	28.201	0.082	Kuiper et al (2008)	9.39058	0.126	0.00167374	0.126	303.561	0.167	0.99335272	0.071	1	4.8E-14	29	NOV	2014	14	46	1
14D33131	4.0 %	RR1310-D44-26	Plagioclase	Lau Basin	FCT-NM (4C14-14)	28.201	0.082	Kuiper et al (2008)	9.39058	0.126	0.00167374	0.126	303.561	0.167	0.99335272	0.071	1	4.8E-14	29	NOV	2014	14	59	1
14D33133	4.6 %	RR1310-D44-26	Plagioclase	Lau Basin	FCT-NM (4C14-14)	28.201	0.082	Kuiper et al (2008)	9.39058	0.126	0.00167374	0.126	303.561	0.167	0.99335272	0.071	1	4.8E-14	29	NOV	2014	15	24	1
14D33134	5.2 %	RR1310-D44-26	Plagioclase	Lau Basin	FCT-NM (4C14-14)	28.201	0.082	Kuiper et al (2008)	9.39058	0.126	0.00167374	0.126	303.561	0.167	0.99335272	0.071	1	4.8E-14	29	NOV	2014	15	36	1
14D33136	5.8 %	RR1310-D44-26	Plagioclase	Lau Basin	FCT-NM (4C14-14)	28.201	0.082	Kuiper et al (2008)	9.39058	0.126	0.00167374	0.126	303.561	0.167	0.99335272	0.071	1	4.8E-14	29	NOV	2014	16	1	1
14D33137	6.6 %	RR1310-D44-26	Plagioclase	Lau Basin	FCT-NM (4C14-14)	28.201	0.082	Kuiper et al (2008)	9.39058	0.126	0.00167374	0.126	303.561	0.167	0.99335272	0.071	1	4.8E-14	29	NOV	2014	16	13	1
14D33139	7.4 %	RR1310-D44-26	Plagioclase	Lau Basin	FCT-NM (4C14-14)	28.201	0.082	Kuiper et al (2008)	9.39058	0.126	0.00167374	0.126	303.561	0.167	0.99335272	0.071	1	4.8E-14	29	NOV	2014	16	38	1
14D33140	8.4 %	RR1310-D44-26	Plagioclase	Lau Basin	FCT-NM (4C14-14)	28.201	0.082	Kuiper et al (2008)	9.39058	0.126	0.00167374	0.126	303.561	0.167	0.99335272	0.071	1	4.8E-14	29	NOV	2014	16	51	1
14D33142	9.4 %	RR1310-D44-26	Plagioclase	Lau Basin	FCT-NM (4C14-14)	28.201	0.082	Kuiper et al (2008)	9.39058	0.126	0.00167374	0.126	303.561	0.167	0.99335272	0.071	1	4.8E-14	29	NOV	2014	17	15	1
14D33143	10.6 %	RR1310-D44-26	Plagioclase	Lau Basin	FCT-NM (4C14-14)	28.201	0.082	Kuiper et al (2008)	9.39058	0.126	0.00167374	0.126	303.561	0.167	0.99335272	0.071	1	4.8E-14	29	NOV	2014	17	28	1
14D33145	11.8 %	RR1310-D44-26	Plagioclase	Lau Basin	FCT-NM (4C14-14)	28.201	0.082	Kuiper et al (2008)	9.39058	0.126	0.00167374	0.126	303.561	0.167	0.99335272	0.071	1	4.8E-14	29	NOV	2014	17	53	1
14D33146	13.5 %	RR1310-D44-26	Plagioclase	Lau Basin	FCT-NM (4C14-14)	28.201	0.082	Kuiper et al (2008)	9.39058	0.126	0.00167374	0.126	303.561	0.167	0.99335272	0.071	1	4.8E-14	29	NOV	2014	18	5	1
14D33148	15.1 %	RR1310-D44-26	Plagioclase	Lau Basin	FCT-NM (4C14-14)	28.201	0.082	Kuiper et al (2008)	9.39058	0.126	0.00167374	0.126	303.561	0.167	0.99335272	0.071	1	4.8E-14	29	NOV	2014	18	30	1
14D33149	16.6 %	RR1310-D44-26	Plagioclase	Lau Basin	FCT-NM (4C14-14)	28.201	0.082	Kuiper et al (2008)	9.39058	0.126	0.00167374	0.126	303.561	0.167	0.99335272	0.071	1	4.8E-14	29	NOV	2014	18	42	1
14D33150	18.3 %	RR1310-D44-26	Plagioclase	Lau Basin	FCT-NM (4C14-14)	28.201	0.082	Kuiper et al (2008)	9.39058	0.126	0.00167374	0.126	303.561	0.167	0.99335272	0.071	1	4.8E-14	29	NOV	2014	18	55	1
14D33152	20.3 %	RR1310-D44-26	Plagioclase	Lau Basin	FCT-NM (4C14-14)	28.201	0.082	Kuiper et al (2008)	9.39058	0.126	0.00167374	0.126	303.561	0.167	0.99335272	0.071	1	4.8E-14	29	NOV	2014	19	20	1
14D33153	22.5 %	RR1310-D44-26	Plagioclase	Lau Basin	FCT-NM (4C14-14)	28.201	0.082	Kuiper et al (2008)	9.39058	0.126	0.00167374	0.126	303.561	0.167	0.99335272	0.071	1	4.8E-14	29	NOV	2014	19	32	1
14D33154	25.0 %	RR1310-D44-26	Plagioclase	Lau Basin	FCT-NM (4C14-14)	28.201	0.082	Kuiper et al (2008)	9.39058	0.126	0.00167374	0.126	303.561	0.167	0.99335272	0.071	1	4.8E-14	29	NOV	2014	19	45	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
14D33126	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
14D33127	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
14D33129	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
14D33130	3.4 %	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
14D33131	4.0 %	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
14D33133	4.6 %	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
14D33134	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
14D33136	5.8 %	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
14D33137	6.6 %	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
14D33139	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
14D33140	8.4 %	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
14D33142	9.4 %	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
14D33143	10.6 %	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
14D33145	11.8 %	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
14D33146	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
14D33148	15.1 %	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
14D33149	16.6 %	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
14D33150	18.3 %	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
14D33152	20.3 %	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
14D33153	22.5 %	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
14D33154	25.0 %	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

14D33125.AGE >>> RR1310-D44-26 >>> LAU BASIN | MULLIONS (13-INT-09) PROJECT



Ar-Ages in ka

WEIGHTED PLATEAU
1278.8 ± 115.1
TOTAL FUSION
1270.9 ± 117.2
NORMAL ISOCHRON
1351.0 ± 287.7
INVERSE ISOCHRON
1364.0 ± 268.4

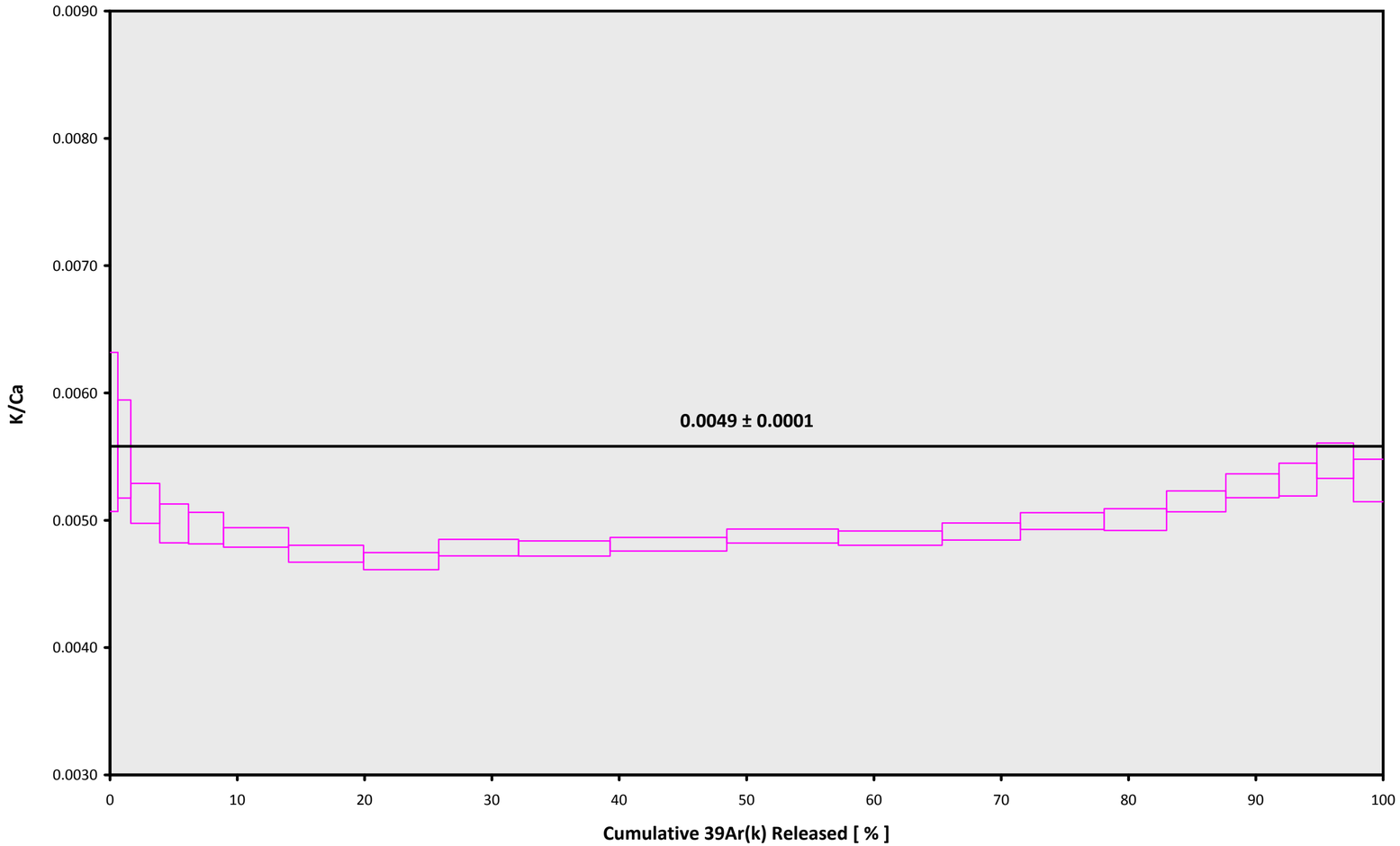
MSWD (PROBABILITY)
0.50 (97%)

Sample Info

Plagioclase
Lau Basin
Dan Miggins

IRR = 14-OSU-04 (4C14-14)
J = 0.00167374 ± 0.00000211

14D33125.AGE >>> RR1310-D44-26 >>> LAU BASIN | MULLIONS (13-INT-09) PROJECT



Ar-Ages in ka

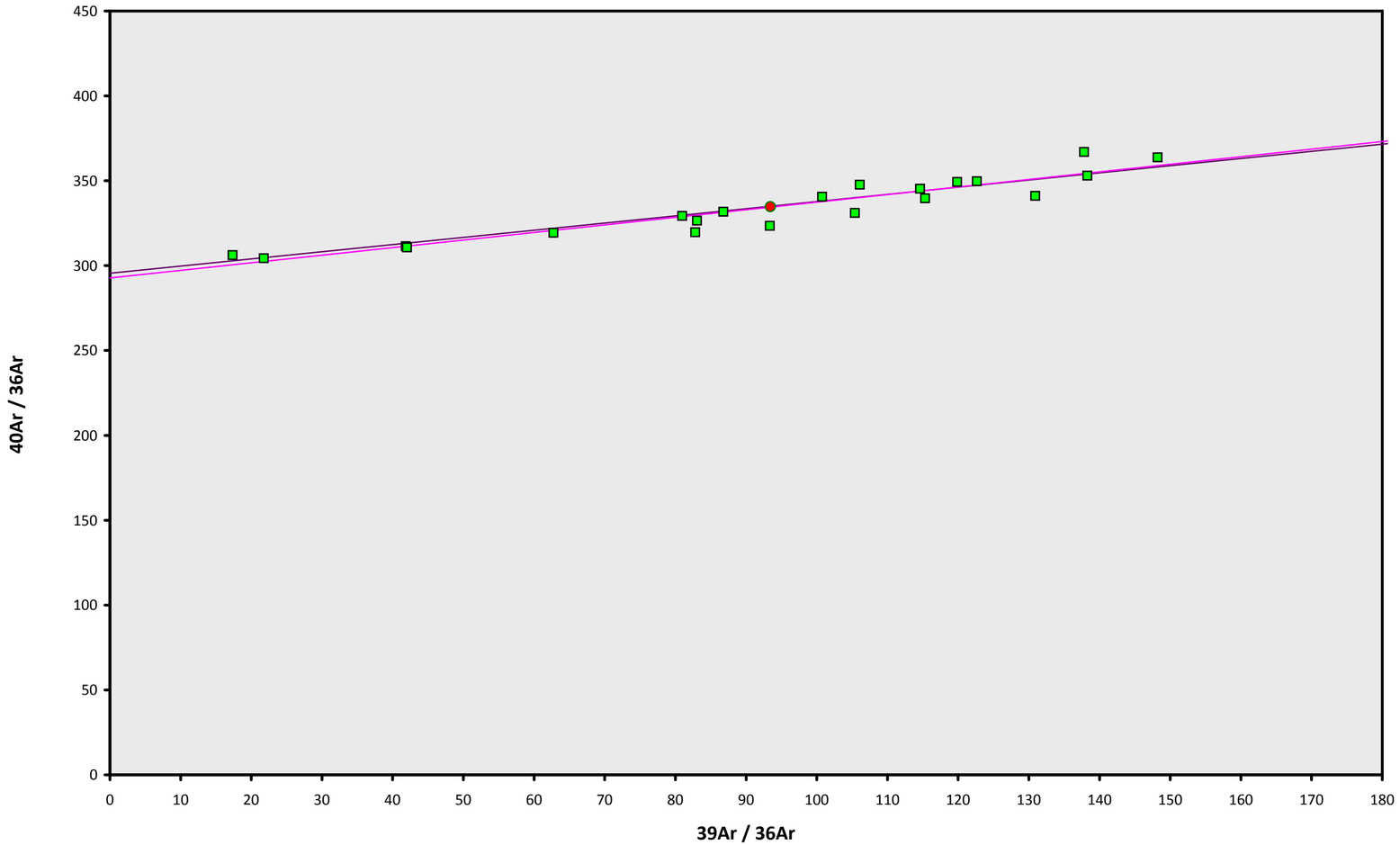
WEIGHTED PLATEAU
1278.8 ± 115.1
TOTAL FUSION
1270.9 ± 117.2
NORMAL ISOCHRON
1351.0 ± 287.7
INVERSE ISOCHRON
1364.0 ± 268.4

Sample Info

Plagioclase
Lau Basin
Dan Miggins

IRR = 14-OSU-04 (4C14-14)
J = 0.00167374 ± 0.00000211

14D33125.AGE >>> RR1310-D44-26 >>> LAU BASIN | MULLIONS (13-INT-09) PROJECT



Ar-Ages in ka

WEIGHTED PLATEAU
1278.8 ± 115.1
TOTAL FUSION
1270.9 ± 117.2
NORMAL ISOCHRON
1351.0 ± 287.7
INVERSE ISOCHRON
1364.0 ± 268.4

MSWD (PROBABILITY)
0.51 (96%)

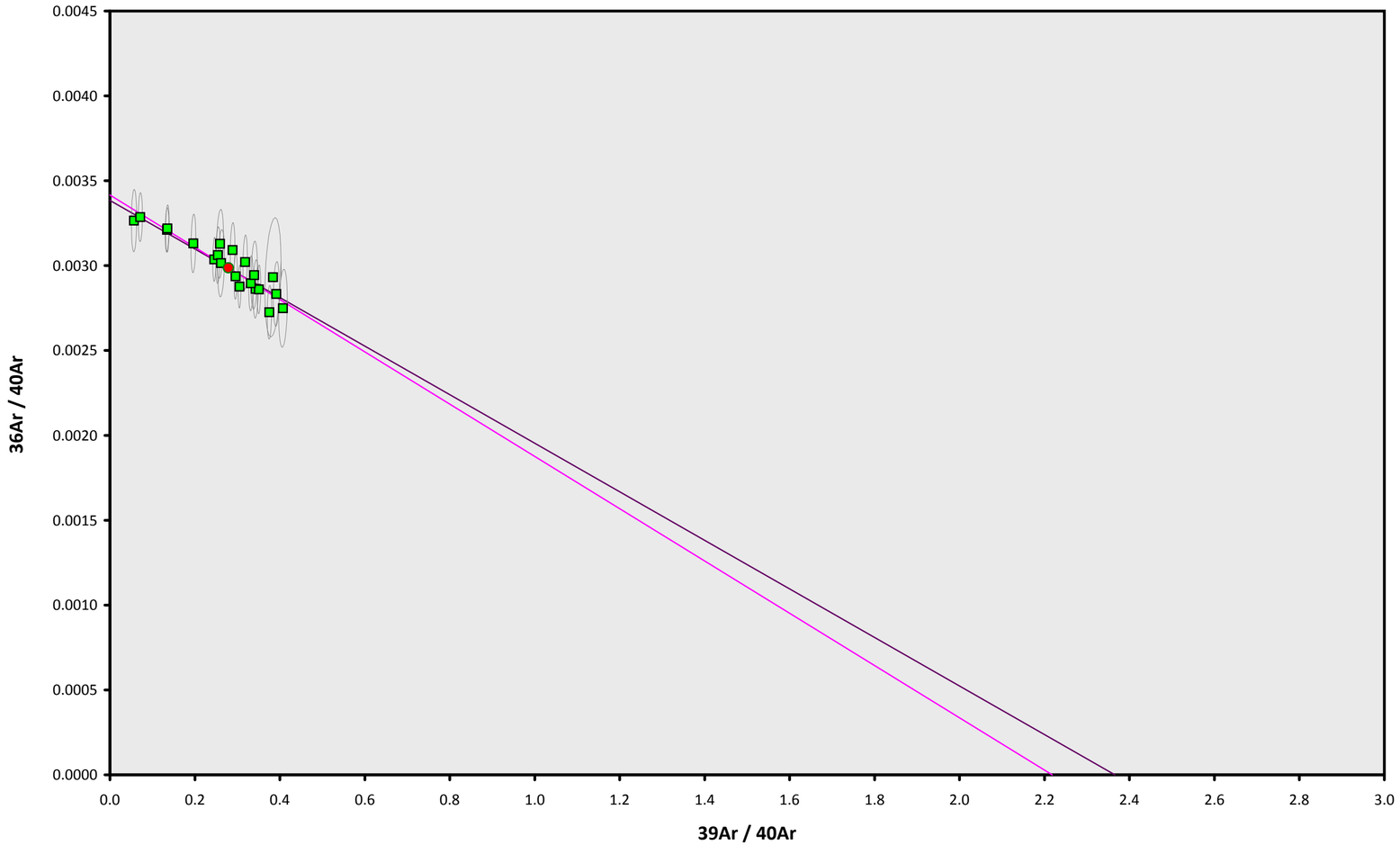
40AR/36AR INTERCEPT
292.8 ± 8.7

Sample Info

Plagioclase
Lau Basin
Dan Miggins

IRR = 14-OSU-04 (4C14-14)
J = 0.00167374 ± 0.00000211

14D33125.AGE >>> RR1310-D44-26 >>> LAU BASIN | MULLIONS (13-INT-09) PROJECT



Ar-Ages in ka

WEIGHTED PLATEAU
1278.8 ± 115.1
TOTAL FUSION
1270.9 ± 117.2
NORMAL ISOCHRON
1351.0 ± 287.7
INVERSE ISOCHRON
1364.0 ± 268.4

MSWD (PROBABILITY)
0.51 (96%)

SPREADING FACTOR
15.8%

40AR/36AR INTERCEPT
292.7 ± 8.7

Sample Info

Plagioclase
Lau Basin
Dan Miggins

IRR = 14-OSU-04 (4C14-14)
J = 0.00167374 ± 0.00000211