

Incremental Heating		36Ar(a)	37Ar(ca)	38Ar(cl)	39Ar(k)	40Ar(r)	Age ± 2σ (Ma)	40Ar(r) (%)	39Ar(k) (%)	K/Ca ± 2σ
07C2123	0.06 W	0.000262	0.008584	0.000000	0.000819	0.000050	0.18 ± 22.40	0.06	0.71	0.0410 ± 0.0026
07C2124	0.18 W	0.000065	0.027451	0.000000	0.002616	0.001979	2.17 ± 7.13	9.35	2.27	0.0410 ± 0.0021
07C2126	0.35 W ✓	0.000053	0.068417	0.000000	0.006216	0.002538	1.17 ± 2.86	13.83	5.40	0.0391 ± 0.0018
07C2127	0.56 W ✓	0.000038	0.100438	0.000004	0.009194	0.004412	1.38 ± 1.98	28.17	7.99	0.0394 ± 0.0017
07C2129	0.97 W ✓	0.000058	0.253202	0.000000	0.022968	0.013279	1.66 ± 0.89	43.60	19.96	0.0390 ± 0.0017
07C2130	1.44 W ✓	0.000041	0.252888	0.000000	0.022387	0.012855	1.65 ± 0.80	51.30	19.45	0.0381 ± 0.0016
07C2132	2.12 W ✓	0.000024	0.164170	0.000000	0.014758	0.007121	1.38 ± 1.28	49.94	12.82	0.0387 ± 0.0018
07C2133	3.21 W ✓	0.000035	0.246739	0.000000	0.022982	0.010669	1.33 ± 0.78	50.75	19.97	0.0401 ± 0.0019
07C2135	4.69 W ✓	0.000015	0.147311	0.000000	0.013133	0.005914	1.29 ± 1.38	57.43	11.41	0.0383 ± 0.0017
Σ		0.000592	1.269201	0.000004	0.115074	0.058717				

Information on Analysis	Results	40(r)/39(k) ± 2σ	Age ± 2σ (Ma)	MSWD	39Ar(k) (% ,n)	K/Ca ± 2σ
Sample = TUT-2 4D1-06	<b>Age Plateau</b>	0.5171 ± 0.1426	1.48 ± 0.41	0.11	97.01	0.0389 ± 0.0007
Material = Plagioclase <50μm	<b>Overestimate Errors</b>	± 27.57%	± 27.56%	100%	7	
Location = Tutuila/Tulaga, Samoa		Minimal External Error ± 0.41		1.58	2σ Confidence Limit	
Analyst = Jamie Russell		Analytical Error ± 0.41		1.0000	Error Magnification	
Project = SAMOA						
Mass Discrimination Law = LIN	<b>Total Fusion Age</b>	0.5103 ± 0.1682	1.46 ± 0.48		9	0.0390 ± 0.0016
Irradiation = OSU4D06		± 32.97%	± 32.96%			
J = 0.00158720 ± 0.00000349		Minimal External Error ± 0.48				
FCT-3 = 28.030 ± 0.003 Ma		Analytical Error ± 0.48				

Normal Isochron		39(k)/36(a) ± 2σ	40(a+r)/36(a) ± 2σ	r.i.
07C2123	0.06 W	3.1 ± 0.3	295.3 ± 24.3	0.9206
07C2124	0.18 W	40.3 ± 13.7	326.0 ± 110.6	0.9988
07C2126	0.35 W ✓	116.3 ± 45.7	343.0 ± 134.7	0.9995
07C2127	0.56 W ✓	241.9 ± 136.9	411.6 ± 232.9	0.9998
07C2129	0.97 W ✓	396.0 ± 165.5	524.5 ± 219.2	0.9999
07C2130	1.44 W ✓	543.6 ± 278.0	607.7 ± 310.7	0.9999
07C2132	2.12 W ✓	613.0 ± 569.0	591.3 ± 548.9	0.9999
07C2133	3.21 W ✓	658.2 ± 397.6	601.1 ± 363.1	0.9999
07C2135	4.69 W ✓	889.5 ± 1289.0	696.1 ± 1008.7	0.9999

Results	40(a)/36(a) ± 2σ	40(r)/39(k) ± 2σ	Age ± 2σ (Ma)	MSWD
Normal Isochron	302.4971 ± 122.0826	0.4877 ± 0.2855	1.40 ± 0.82	0.12
Overestimate Errors	± 40.36%	± 58.53%	± 58.51%	99%
		Minimal External Error ± 0.82		
		Analytical Error ± 0.82		
Statistics	2σ Confidence Limit	2.26	Convergence	0.000036077
	Error Magnification	1.0000	Number of Iterations	13
	Number of Data Points	7	Calculated Line	Weighted York-2

Inverse Isochron		39(k)/40(a+r) ± 2σ	36(a)/40(a+r) ± 2σ	r.i.
07C2123	0.06 W	0.010574 ± 0.000369	0.003386 ± 0.000279	0.0045
07C2124	0.18 W	0.123621 ± 0.002056	0.003068 ± 0.001041	0.0129
07C2126	0.35 W ✓	0.339006 ± 0.004334	0.002916 ± 0.001146	0.0159
07C2127	0.56 W ✓	0.587683 ± 0.006915	0.002430 ± 0.001375	0.0107
07C2129	0.97 W ✓	0.755085 ± 0.005074	0.001907 ± 0.000797	0.0083
07C2130	1.44 W ✓	0.894628 ± 0.006385	0.001646 ± 0.000842	0.0077
07C2132	2.12 W ✓	1.036732 ± 0.010649	0.001691 ± 0.001570	0.0090
07C2133	3.21 W ✓	1.095111 ± 0.007806	0.001664 ± 0.001005	0.0086
07C2135	4.69 W ✓	1.277928 ± 0.019511	0.001437 ± 0.002082	0.0098

Results	40(a)/36(a) ± 2σ	40(r)/39(k) ± 2σ	Age ± 2σ (Ma)	MSWD
<b>Inverse Isochron</b> <b>Overestimate Errors</b>	303.7395 ± 130.9191 ± 43.10%	0.5003 ± 0.2847 ± 56.91%	1.44 ± 0.82 ± 56.89%	0.12 99%
		Minimal External Error ± 0.82 Analytical Error ± 0.82		
<b>Statistics</b>	2σ Confidence Limit Error Magnification Number of Data Points Spreading Factor	2.26 1.0000 7 47.0%	Convergence Number of Iterations Calculated Line	0.0005544963 2 Weighted York-2

Relative Abundances		36Ar	%1σ	37Ar	%1σ	38Ar	%1σ	39Ar	%1σ	40Ar	%1σ	Age ± 2σ (Ma)	40Ar(r) (%)	39Ar(k) (%)	K/Ca ± 2σ
07C2123	0.06 W	0.0002645	4.083	0.0085838	1.695	0.0000525	19.669	0.0008249	1.724	0.0774416	0.181	0.18 ± 22.40	0.06	0.71	0.0410 ± 0.0026
07C2124	0.18 W	0.0000723	15.228	0.0274506	1.455	0.0000417	23.810	0.0026357	0.708	0.0211677	0.427	2.17 ± 7.13	9.35	2.27	0.0410 ± 0.0021
07C2126	0.35 W ✓	0.0000719	14.607	0.0684170	1.161	0.0000777	10.945	0.0062642	0.453	0.0183454	0.446	1.17 ± 2.86	13.83	5.40	0.0391 ± 0.0018
07C2127	0.56 W ✓	0.0000650	16.535	0.1004378	0.738	0.0001260	7.151	0.0092651	0.407	0.0156595	0.420	1.38 ± 1.98	28.17	7.99	0.0394 ± 0.0017
07C2129	0.97 W ✓	0.0001261	9.596	0.2532023	0.913	0.0002855	3.839	0.0231473	0.231	0.0304554	0.239	1.66 ± 0.89	43.60	19.96	0.0390 ± 0.0017
07C2130	1.44 W ✓	0.0001092	9.629	0.2528883	0.678	0.0002865	3.318	0.0225666	0.236	0.0250611	0.263	1.65 ± 0.80	51.30	19.45	0.0381 ± 0.0016
07C2132	2.12 W ✓	0.0000682	16.358	0.1641704	1.059	0.0001809	4.935	0.0148744	0.218	0.0142595	0.461	1.38 ± 1.28	49.94	12.82	0.0387 ± 0.0018
07C2133	3.21 W ✓	0.0001013	10.378	0.2467393	1.191	0.0002914	3.014	0.0231573	0.182	0.0210243	0.301	1.33 ± 0.78	50.75	19.97	0.0401 ± 0.0019
07C2135	4.69 W ✓	0.0000544	19.657	0.1473111	0.825	0.0001610	5.753	0.0132379	0.203	0.0102988	0.732	1.29 ± 1.38	57.43	11.41	0.0383 ± 0.0017
Σ		0.0009330	3.506	1.2692006	0.376	0.0015032	1.895	0.1159735	0.095	0.2337133	0.107				

Information on Analysis and Constants Used in Calculations

Sample = TUT-2 4D1-06  
Material = Plagioclase <50µm  
Location = Tutuila/Tulaga, Samoa  
Analyst = Jamie Russell  
Project = SAMOA  
Mass Discrimination Law = LIN  
Irradiation = OSU4D06  
J = 0.00158720 ± 0.00000349  
FCT-3 = 28.030 ± 0.003 Ma  
IGSN = KOP000043  
Preferred Age = Plateau Age  
Classification = Eruption Age  
Experiment Type = Incremental Heating  
Extraction Method = Bulk Laser Heating  
Heating = 600 sec  
Isolation = 15.00 min  
Instrument = MAP215-50  
Lithology = Basalt  
Lat-Lon = 14°28.2'S - 170°18.0'E

Age Equations = Conventional  
Negative Intensities = Allowed  
Decay Constant 40K = 5.530 ± 0.048 E-10 1/a  
Decay Constant 39Ar = 2.940 ± 0.016 E-07 1/h  
Decay Constant 37Ar = 8.230 ± 0.012 E-04 1/h  
Decay Constant 36Cl = 2.236 ± 0.045 E-06 1/a  
Production Ratio 36/38 in Cl = 316.0 ± 15.8

Results

	40(r)/39(k) ± 2σ	Age ± 2σ (Ma)	MSWD	39Ar(k) (%n)	K/Ca ± 2σ
<b>Age Plateau</b> <b>Overestimate Errors</b>	0.5171 ± 0.1426 ± 27.57%	1.48 ± 0.41 ± 27.56%	0.11 100%	97.01 7	0.0389 ± 0.0007
	Minimal External Error ± 0.41 Analytical Error ± 0.41		1.58 1.0000	2σ Confidence Limit Error Magnification	
<b>Total Fusion Age</b>	0.5103 ± 0.1682 ± 32.97%	1.46 ± 0.48 ± 32.96%		9	0.0390 ± 0.0016
	Minimal External Error ± 0.48 Analytical Error ± 0.48				
<b>Normal Isochron</b> <b>Overestimate Errors</b>	0.4877 ± 0.2855 ± 58.53%	1.40 ± 0.82 ± 58.51%	0.12 99%	97.01 7	
	Minimal External Error ± 0.82 Analytical Error ± 0.82		2.26 1.0000	2σ Confidence Limit Error Magnification	
<b>Inverse Isochron</b> <b>Overestimate Errors</b>	0.5003 ± 0.2847 ± 56.91%	1.44 ± 0.82 ± 56.89%	0.12 99%	97.01 7	
	Minimal External Error ± 0.82 Analytical Error ± 0.82		2.26 1.0000	2σ Confidence Limit Error Magnification	

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Degassing Patterns		36Ar(a)	%1σ	36Ar(c)	%1σ	36Ar(ca)	%1σ	36Ar(cl)	%1σ	37Ar(ca)	%1σ	38Ar(a)	%1σ	38Ar(c)	%1σ	38Ar(k)	%1σ	38Ar(ca)	%1σ	38Ar(cl)	%1σ	39Ar(k)	%1σ	39Ar(ca)	%1σ	40Ar(r)	%1σ	40Ar(a)	%1σ	40Ar(c)	%1σ	40Ar(k)	%1σ
07C2123	0.06 W	0.000262	4.12	0.000000	0.00	0.000002	1.73	0.000000	0.00	0.008584	1.69	0.000049	4.12	0.000000	0.00	0.000010	1.74	0.000000	21.97	0.000000	0.00	0.000819	1.74	0.000006	2.49	0.000050	6350.29	0.077491	4.12	0.000000	0.00	0.000001	24.96
07C2124	0.18 W	0.000065	16.96	0.000000	0.00	0.000007	1.50	0.000000	0.00	0.027451	1.46	0.000012	16.96	0.000000	0.00	0.000032	0.72	0.000001	21.95	0.000000	0.00	0.002616	0.71	0.000019	2.34	0.001979	164.52	0.019185	16.96	0.000000	0.00	0.000004	24.91
07C2126	0.35 W ✓	0.000053	19.64	0.000000	0.00	0.000018	1.22	0.000000	0.00	0.068417	1.16	0.000010	19.64	0.000000	0.00	0.000075	0.47	0.000002	21.93	0.000000	0.00	0.006216	0.46	0.000049	2.17	0.002538	122.30	0.015797	19.64	0.000000	0.00	0.000010	24.90
07C2127	0.56 W ✓	0.000038	28.29	0.000000	0.00	0.000027	0.83	0.000000	211.99	0.100438	0.74	0.000007	28.29	0.000000	0.00	0.000111	0.42	0.000003	21.91	0.000004	212.06	0.009194	0.41	0.000071	1.97	0.004412	72.06	0.011233	28.29	0.000000	0.00	0.000015	24.90
07C2129	0.97 W ✓	0.000058	20.90	0.000000	0.00	0.000068	0.99	0.000000	0.00	0.253202	0.91	0.000011	20.90	0.000000	0.00	0.000278	0.25	0.000008	21.92	0.000000	0.00	0.022968	0.23	0.000180	2.05	0.013279	26.98	0.017138	20.90	0.000000	0.00	0.000038	24.90
07C2130	1.44 W ✓	0.000041	25.57	0.000000	0.00	0.000068	0.77	0.000000	0.00	0.252888	0.68	0.000008	25.57	0.000000	0.00	0.000271	0.26	0.000008	21.91	0.000000	0.00	0.022387	0.24	0.000179	1.95	0.012855	24.21	0.012169	25.57	0.000000	0.00	0.000037	24.90
07C2132	2.12 W ✓	0.000024	46.41	0.000000	0.00	0.000044	1.12	0.000000	0.00	0.164170	1.06	0.000004	46.41	0.000000	0.00	0.000179	0.24	0.000005	21.93	0.000000	0.00	0.014758	0.22	0.000116	2.11	0.007121	46.37	0.007114	46.41	0.000000	0.00	0.000024	24.90
07C2133	3.21 W ✓	0.000035	30.20	0.000000	0.00	0.000066	1.25	0.000000	0.00	0.246739	1.19	0.000007	30.20	0.000000	0.00	0.000278	0.21	0.000008	21.93	0.000000	0.00	0.022982	0.18	0.000175	2.18	0.010669	29.21	0.010317	30.20	0.000000	0.00	0.000038	24.90
07C2135	4.69 W ✓	0.000015	72.46	0.000000	0.00	0.000040	0.90	0.000000	0.00	0.147311	0.83	0.000003	72.46	0.000000	0.00	0.000159	0.23	0.000005	21.92	0.000000	0.00	0.013133	0.21	0.000104	2.01	0.005914	53.47	0.004363	72.46	0.000000	0.00	0.000022	24.90
Σ		0.000592	5.53	0.000000	0.00	0.000341	0.40	0.000000	211.99	1.269201	0.38	0.000111	5.53	0.000000	0.00	0.001394	0.10	0.000041	8.69	0.000004	212.06	0.115074	0.10	0.000900	0.82	0.058717	16.48	0.174806	5.53	0.000000	0.00	0.000190	9.86
Σ								0.000933	3.51	1.269201	0.38									0.001549	0.76			0.115974	0.09							0.233713	5.86

Additional Parameters		40(r)/39(k)	1 $\sigma$	40(r+a)	1 $\sigma$	40Ar/39Ar	1 $\sigma$	37Ar/39Ar	1 $\sigma$	36Ar/39Ar	1 $\sigma$	Time (days)	37Ar (decay)	39Ar (decay)	40Ar (moles)
07C2123	0.06 W	0.061437	3.90142	0.077440	0.00014	93.874525	1.62694	10.405287	0.25152	0.320680	0.01421	148.037	18.66202979	1.00104598	2.556E-19
07C2124	0.18 W	0.756271	1.24423	0.021163	0.00009	8.031117	0.06640	10.414872	0.16854	0.027434	0.00418	148.055	18.66868648	1.00104610	6.985E-20
07C2126	0.35 W ✓	0.408278	0.49932	0.018335	0.00008	2.928598	0.01863	10.921848	0.13612	0.011472	0.00168	148.092	18.68226324	1.00104636	6.054E-20
07C2127	0.56 W ✓	0.479835	0.34578	0.015644	0.00007	1.690157	0.00989	10.840444	0.09137	0.007019	0.00116	148.110	18.68892715	1.00104649	5.168E-20
07C2129	0.97 W ✓	0.578178	0.15598	0.030417	0.00007	1.315721	0.00438	10.938750	0.10305	0.005448	0.00052	148.147	18.70251863	1.00104675	1.005E-19
07C2130	1.44 W ✓	0.574226	0.13901	0.025024	0.00007	1.110539	0.00392	11.206294	0.08039	0.004839	0.00047	148.165	18.70918976	1.00104688	8.270E-20
07C2132	2.12 W ✓	0.482544	0.22376	0.014235	0.00007	0.958658	0.00489	11.037125	0.11935	0.004587	0.00075	148.200	18.72228235	1.00104713	4.706E-20
07C2133	3.21 W ✓	0.464226	0.13561	0.020986	0.00006	0.907889	0.00320	10.654903	0.12838	0.004374	0.00045	148.218	18.72896053	1.00104726	6.938E-20
07C2135	4.69 W ✓	0.450310	0.24077	0.010277	0.00008	0.777980	0.00591	11.127971	0.09456	0.004109	0.00081	148.255	18.74258112	1.00104752	3.399E-20

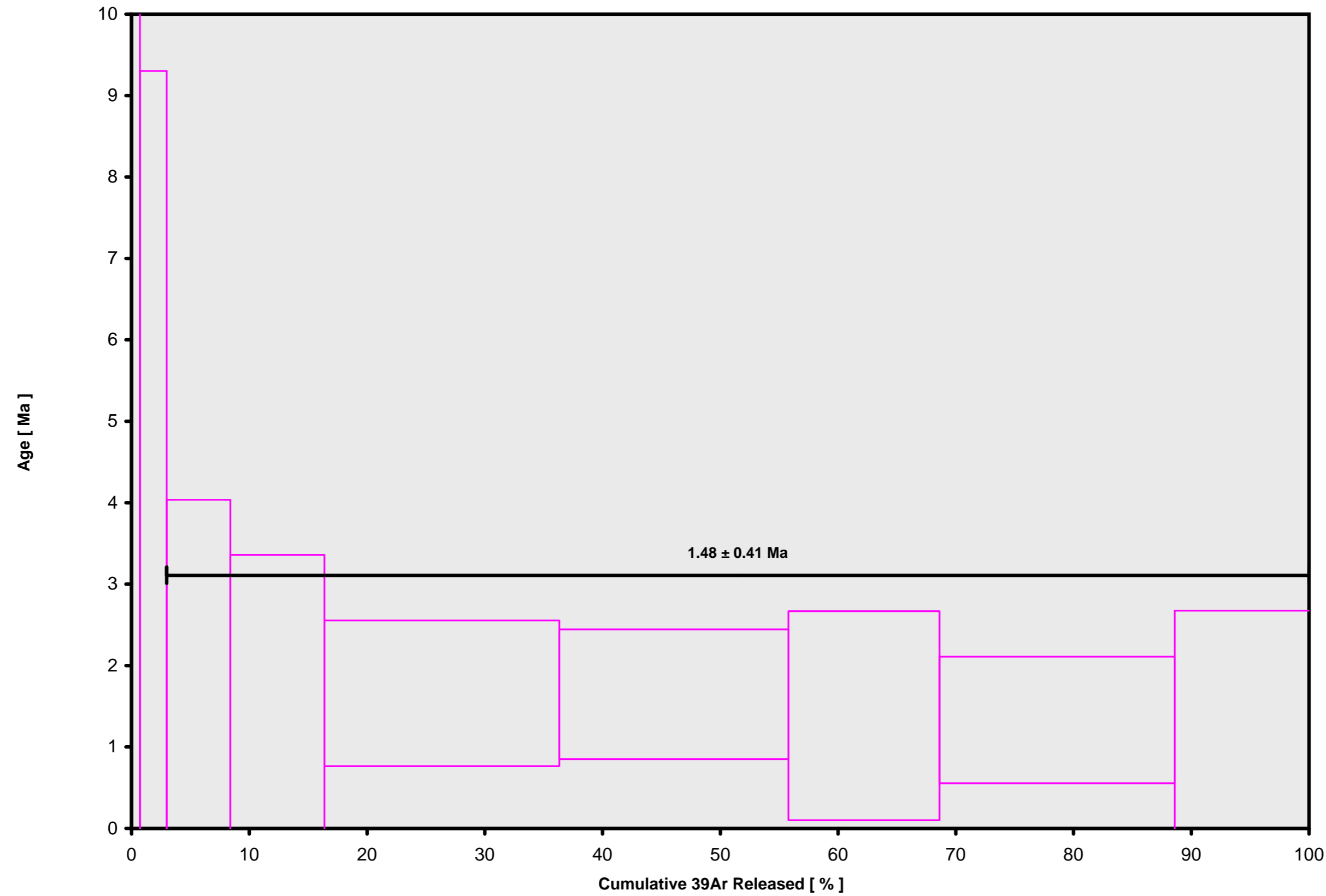
Procedure Blanks		36Ar	1σ	37Ar	1σ	38Ar	1σ	39Ar	1σ	40Ar	1σ
07C2123	0.06 W	0.000019	0.000010	0.000028	0.000004	0.000010	0.000008	0.000113	0.000009	0.005252	0.000053
07C2124	0.18 W	0.000019	0.000010	0.000026	0.000004	0.000006	0.000008	0.000109	0.000009	0.005248	0.000053
07C2126	0.35 W	0.000019	0.000010	0.000023	0.000004	0.000003	0.000007	0.000096	0.000009	0.005025	0.000053
07C2127	0.56 W	0.000018	0.000010	0.000022	0.000004	0.000004	0.000007	0.000088	0.000009	0.004850	0.000052
07C2129	0.97 W	0.000017	0.000010	0.000021	0.000004	0.000008	0.000007	0.000072	0.000009	0.004459	0.000052
07C2130	1.44 W	0.000016	0.000010	0.000021	0.000004	0.000009	0.000007	0.000065	0.000009	0.004289	0.000053
07C2132	2.12 W	0.000014	0.000010	0.000019	0.000004	0.000010	0.000008	0.000059	0.000009	0.004093	0.000053
07C2133	3.21 W	0.000014	0.000010	0.000018	0.000004	0.000007	0.000008	0.000061	0.000009	0.004100	0.000053
07C2135	4.69 W	0.000014	0.000010	0.000014	0.000004	0.000007	0.000008	0.000079	0.000009	0.004435	0.000053

Intercept Values	36Ar				37Ar				38Ar				39Ar				40Ar				
		1σ	r2		1σ	r2		1σ	r2		1σ	r2		1σ	r2		1σ	r2			
07C2123	0.06 W	0.000283	0.000005	0.0019	LIN #	0.000485	0.000006	0.8910	LIN # 1	0.000062	0.000007	0.3341	LIN #	0.000926	0.000010	0.9990	EXP #	0.081455	0.000128	0.9763	EXP # 1
07C2124	0.18 W	0.000091	0.000005	0.2509	LIN #	0.001490	0.000019	0.4018	LIN #	0.000047	0.000007	0.5771	LIN #	0.002712	0.000015	0.9949	EXP #	0.026025	0.000072	0.9971	LIN #
07C2126	0.35 W	0.000091	0.000004	0.1888	LIN #	0.003672	0.000035	0.7862	LIN # 1	0.000080	0.000004	0.8484	LIN # 1	0.006283	0.000025	0.9652	LIN #	0.023025	0.000062	0.9978	EXP #
07C2127	0.56 W	0.000083	0.000005	0.1598	LIN # 5	0.005377	0.000020	0.9075	EXP #	0.000129	0.000005	0.1368	LIN #	0.009241	0.000033	0.6039	LIN # 1	0.020208	0.000039	0.9990	EXP #
07C2129	0.97 W	0.000143	0.000007	0.0825	LIN #	0.013514	0.000089	0.8878	LIN # 1	0.000291	0.000008	0.1223	LIN #	0.022945	0.000037	0.9498	LIN #	0.034408	0.000050	0.9982	LIN #
07C2130	1.44 W	0.000125	0.000004	0.0111	LIN #	0.013492	0.000032	0.9862	EXP # 1	0.000294	0.000006	0.1234	LIN #	0.022364	0.000038	0.9601	EXP #	0.028925	0.000039	0.9989	LIN #
07C2132	2.12 W	0.000082	0.000006	0.0346	LIN #	0.008760	0.000074	0.8614	LIN # 1	0.000189	0.000005	0.0108	LIN #	0.014760	0.000020	0.9643	EXP #	0.018090	0.000039	0.9987	LIN #
07C2133	3.21 W	0.000115	0.000004	0.2559	LIN #	0.013149	0.000132	0.7703	LIN # 1	0.000297	0.000005	0.2487	LIN #	0.022947	0.000018	0.9936	LIN #	0.024762	0.000034	0.9989	LIN #
07C2135	4.69 W	0.000068	0.000005	0.1703	LIN #	0.007849	0.000041	0.9427	LIN # 1	0.000167	0.000005	0.0045	LIN #	0.013162	0.000014	0.9842	LIN # 1	0.014523	0.000053	0.9974	LIN #

Sample Parameters	Sample	Material	Location	Analyst	Temp	Standard (in Ma)	%1σ	J	%1σ	MDF	%1σ	Volume Ratio	Sensitivity (mol/volt)	Day	Month	Year	Hour	Min	Resist	Irradiation	Project	Experiment	Nmb	Standard Name	
07C2123	0.06 W	TUT-2 4D1-06	Plagioclase <50μm	Tutuila/Tulaga, Samoa	Jamie Russell	0.06	28.03	0.01	0.0015872	0.22	1.00378	0.16	1.0152	3.300E-18	18	MAY	2007	16	53	001	OSU4D06	Samoa	07C2123	01	FCT-3
07C2124	0.18 W	TUT-2 4D1-06	Plagioclase <50μm	Tutuila/Tulaga, Samoa	Jamie Russell	0.18	28.03	0.01	0.0015872	0.22	1.00378	0.16	1.015	3.300E-18	18	MAY	2007	17	19	001	OSU4D06	Samoa	07C2123	01	FCT-3
07C2126	0.35 W	TUT-2 4D1-06	Plagioclase <50μm	Tutuila/Tulaga, Samoa	Jamie Russell	0.35	28.03	0.01	0.0015872	0.22	1.00378	0.16	1.015	3.300E-18	18	MAY	2007	18	12	001	OSU4D06	Samoa	07C2123	01	FCT-3
07C2127	0.56 W	TUT-2 4D1-06	Plagioclase <50μm	Tutuila/Tulaga, Samoa	Jamie Russell	0.56	28.03	0.01	0.0015872	0.22	1.00378	0.16	1.0149	3.300E-18	18	MAY	2007	18	38	001	OSU4D06	Samoa	07C2123	01	FCT-3
07C2129	0.97 W	TUT-2 4D1-06	Plagioclase <50μm	Tutuila/Tulaga, Samoa	Jamie Russell	0.97	28.03	0.01	0.0015872	0.22	1.00378	0.16	1.0147	3.300E-18	18	MAY	2007	19	31	001	OSU4D06	Samoa	07C2123	01	FCT-3
07C2130	1.44 W	TUT-2 4D1-06	Plagioclase <50μm	Tutuila/Tulaga, Samoa	Jamie Russell	1.44	28.03	0.01	0.0015872	0.22	1.00378	0.16	1.0147	3.300E-18	18	MAY	2007	19	57	001	OSU4D06	Samoa	07C2123	01	FCT-3
07C2132	2.12 W	TUT-2 4D1-06	Plagioclase <50μm	Tutuila/Tulaga, Samoa	Jamie Russell	2.12	28.03	0.01	0.0015872	0.22	1.00378	0.16	1.0145	3.300E-18	18	MAY	2007	20	48	001	OSU4D06	Samoa	07C2123	01	FCT-3
07C2133	3.21 W	TUT-2 4D1-06	Plagioclase <50μm	Tutuila/Tulaga, Samoa	Jamie Russell	3.21	28.03	0.01	0.0015872	0.22	1.00378	0.16	1.0146	3.300E-18	18	MAY	2007	21	14	001	OSU4D06	Samoa	07C2123	01	FCT-3
07C2135	4.69 W	TUT-2 4D1-06	Plagioclase <50μm	Tutuila/Tulaga, Samoa	Jamie Russell	4.69	28.03	0.01	0.0015872	0.22	1.00378	0.16	1.0145	3.300E-18	18	MAY	2007	22	07	001	OSU4D06	Samoa	07C2123	01	FCT-3

Irradiation Constants	40/36(a)		40/36(c)		38/36(a)		38/36(c)		39/37(ca)		38/37(ca)		36/37(ca)		40/39(k)		38/39(k)		36/38(cl)		K/Ca		K/Cl		Ca/Cl		
	W	%1σ	W	%1σ	W	%1σ	W	%1σ	W	%1σ	W	%1σ	W	%1σ	W	%1σ	W	%1σ	W	%1σ	W	%1σ	W	%1σ	W	%1σ	
07C2123	0.06	295.5	0	0.018	35	0.1869	0	1.493	3	0.000709	1.83	0.000032	21.9	0.000269	0.37	0.00165	24.9	0.01211	0.1	0	0	0.43	2	0	0	0	0
07C2124	0.18	295.5	0	0.018	35	0.1869	0	1.493	3	0.000709	1.83	0.000032	21.9	0.000269	0.37	0.00165	24.9	0.01211	0.1	0	0	0.43	2	0	0	0	0
07C2126	0.35	295.5	0	0.018	35	0.1869	0	1.493	3	0.000709	1.83	0.000032	21.9	0.000269	0.37	0.00165	24.9	0.01211	0.1	0	0	0.43	2	0	0	0	0
07C2127	0.56	295.5	0	0.018	35	0.1869	0	1.493	3	0.000709	1.83	0.000032	21.9	0.000269	0.37	0.00165	24.9	0.01211	0.1	0	0	0.43	2	0	0	0	0
07C2129	0.97	295.5	0	0.018	35	0.1869	0	1.493	3	0.000709	1.83	0.000032	21.9	0.000269	0.37	0.00165	24.9	0.01211	0.1	0	0	0.43	2	0	0	0	0
07C2130	1.44	295.5	0	0.018	35	0.1869	0	1.493	3	0.000709	1.83	0.000032	21.9	0.000269	0.37	0.00165	24.9	0.01211	0.1	0	0	0.43	2	0	0	0	0
07C2132	2.12	295.5	0	0.018	35	0.1869	0	1.493	3	0.000709	1.83	0.000032	21.9	0.000269	0.37	0.00165	24.9	0.01211	0.1	0	0	0.43	2	0	0	0	0
07C2133	3.21	295.5	0	0.018	35	0.1869	0	1.493	3	0.000709	1.83	0.000032	21.9	0.000269	0.37	0.00165	24.9	0.01211	0.1	0	0	0.43	2	0	0	0	0
07C2135	4.69	295.5	0	0.018	35	0.1869	0	1.493	3	0.000709	1.83	0.000032	21.9	0.000269	0.37	0.00165	24.9	0.01211	0.1	0	0	0.43	2	0	0	0	0

07C2123.AGE >>> TUT-2 4D1-06 >>> SAMOA PROJECT



### Ar-Ages in Ma

#### WEIGHTED PLATEAU

1.48 ± 0.41

#### TOTAL FUSION

1.46 ± 0.48

#### NORMAL ISOCHRON

1.40 ± 0.82

#### INVERSE ISOCHRON

1.44 ± 0.82

#### MSWD (PROBABILITY)

0.11 (100%)

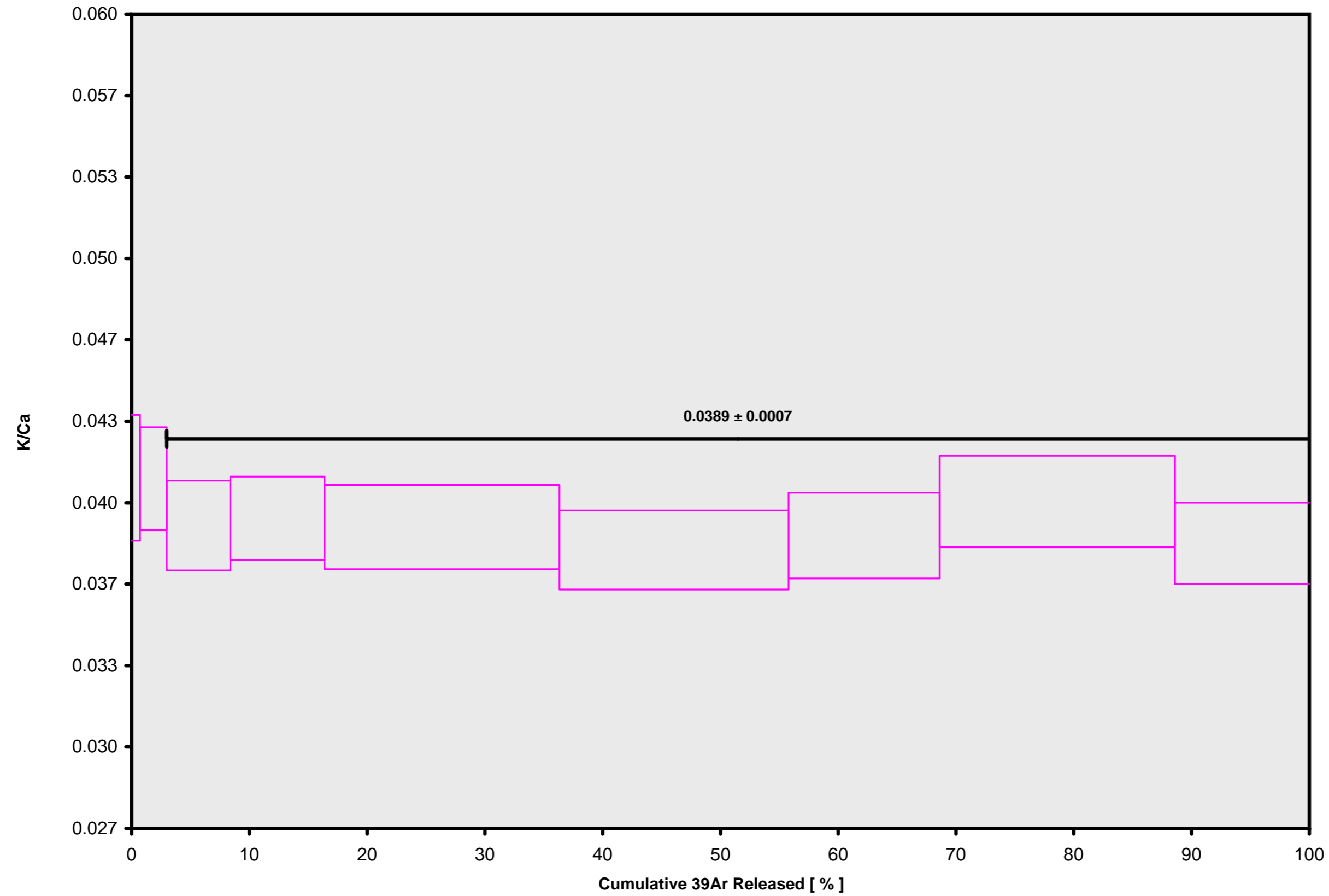
### Sample Info

Plagioclase <50µm  
Tutuila/Tulaga, Samoa  
Jamie Russell

IRR = OSU4D06

J = 0.00158720 ± 0.00000349

07C2123.AGE >>> TUT-2 4D1-06 >>> SAMOA PROJECT



### Ar-Ages in Ma

**WEIGHTED PLATEAU**

**1.48 ± 0.41**

**TOTAL FUSION**

**1.46 ± 0.48**

**NORMAL ISOCHRON**

**1.40 ± 0.82**

**INVERSE ISOCHRON**

**1.44 ± 0.82**

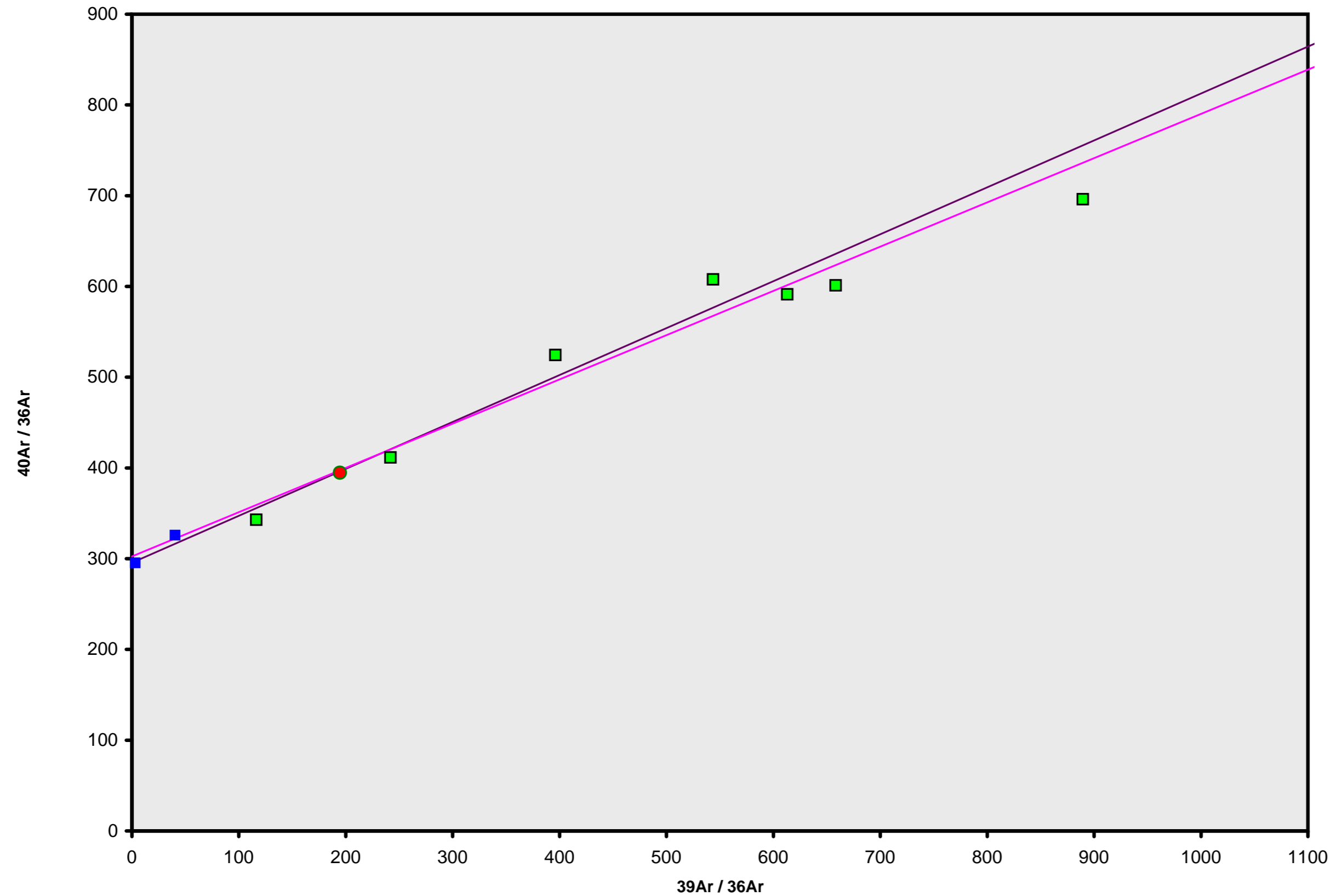
### Sample Info

Plagioclase <50µm  
Tutuila/Tulaga, Samoa  
Jamie Russell

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07C2123.AGE >>> TUT-2 4D1-06 >>> SAMOA PROJECT



**Ar-Ages in Ma**

**WEIGHTED PLATEAU**

1.48 ± 0.41

**TOTAL FUSION**

1.46 ± 0.48

**NORMAL ISOCHRON**

1.40 ± 0.82

**INVERSE ISOCHRON**

1.44 ± 0.82

**MSWD (PROBABILITY)**

0.12 (99%)

**40AR/36AR INTERCEPT**

302.5 ± 122.1

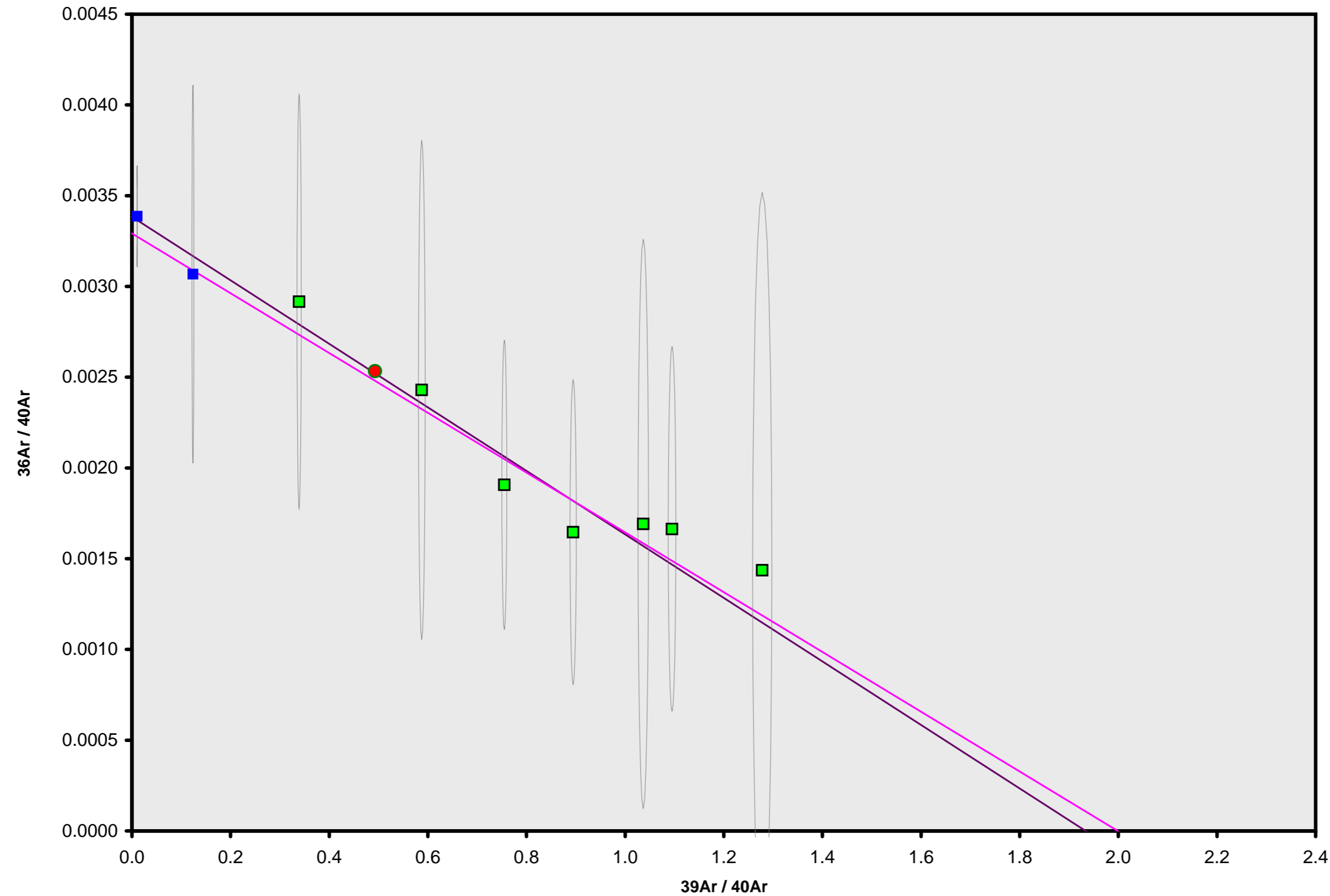
**Sample Info**

Plagioclase <50µm  
Tutuila/Tulaga, Samoa  
Jamie Russell

IRR = OSU4D06

J = 0.00158720 ± 0.00000349

07C2123.AGE >>> TUT-2 4D1-06 >>> SAMOA PROJECT



### Ar-Ages in Ma

**WEIGHTED PLATEAU**

$1.48 \pm 0.41$

**TOTAL FUSION**

$1.46 \pm 0.48$

**NORMAL ISOCHRON**

$1.40 \pm 0.82$

**INVERSE ISOCHRON**

$1.44 \pm 0.82$

**MSWD (PROBABILITY)**

0.12 (99%)

**SPREADING FACTOR**

47.0%

**40AR/36AR INTERCEPT**

$303.7 \pm 130.9$

### Sample Info

Plagioclase <50 $\mu\text{m}$   
Tutuila/Tulaga, Samoa  
Jamie Russell

IRR = OSU4D06

J =  $0.00158720 \pm 0.00000349$