Incremental Heating			36Ar(a)	37Ar(ca)	38Ar(cl)	39Ar(k)	40Ar(r)	Age ± 2σ (Ma)	40Ar(r) (%)	39Ar(k) (%)	K/Ca ± 2σ
06C3597	0.09 W		0.000050	0.001064	0.000095	0.002327	0.000000	0.00 ± 0.00	0.00	0.07	0.9 ± 0.1
06C3598	0.27 W		0.000000	0.001563	0.000056	0.044893	0.036879	2.55 ± 0.04	99.80	1.34	12.4 ± 0.7
06C3600	0.53 W		0.000000	0.005032	0.000080	0.165943	0.105892	1.98 ± 0.02	99.74	4.94	14.2 ± 0.6
06C3601	0.62 W		0.000050	0.006095	0.000015	0.199601	0.110818	1.73 ± 0.13	87.92	5.94	14.1 ± 0.6
06C3603	0.85 W		0.000055	0.008542	0.000023	0.283127	0.164095	1.80 ± 0.08	90.68	8.43	14.3 ± 0.6
06C3604	0.97 W	✓	0.000008	0.008906	0.000026	0.303180	0.190892	1.96 ± 0.05	98.59	9.02	14.6 ± 0.6
06C3606	1.06 W	✓	0.000030	0.009932	0.000000	0.333742	0.205511	1.91 ± 0.06	95.56	9.93	14.4 ± 0.6
06C3607	1.30 W	✓	0.000009	0.009633	0.000000	0.321477	0.202231	1.96 ± 0.05	98.47	9.57	14.4 ± 0.6
06C3609	1.50 W	✓	0.000027	0.008949	0.000025	0.306995	0.188839	1.91 ± 0.06	95.69	9.14	14.8 ± 0.6
06C3610	1.86 W	✓	0.000053	0.009894	0.000000	0.341413	0.206639	1.88 ± 0.05	92.75	10.16	14.8 ± 0.6
06C3612	2.39 W	✓	0.000040	0.010966	0.000000	0.376388	0.230181	1.90 ± 0.05	94.85	11.20	14.8 ± 0.6
06C3613	3.18 W	✓	0.000033	0.010723	0.000000	0.371330	0.228386	1.91 ± 0.05	95.66	11.05	14.9 ± 0.6
06C3615	4.42 W	✓	0.000020	0.006810	0.000000	0.234303	0.146027	1.94 ± 0.07	95.88	6.97	14.8 ± 0.6
06C3616	5.38 W		0.000000	0.002210	0.000000	0.075653	0.049941	2.05 ± 0.02	99.75	2.25	14.7 ± 0.7
		Σ	0.000375	0.100319	0.000321	3.360372	2.066330				

Information on Analysis

Sample = TAM-2 3E4-06
Material = K-Feldspar 210-500µm
Location = Tama'i, Samoa
Analyst = Jamie Russell
Project = SAMOA
Mass Discrimination Law = LIN
Irradiation = OSU3E06
J = 0.00172010 ± 0.00000430
FCT-3 = 28.030 ± 0.003 Ma

Results	40(r)/39(k) ± 2σ	Age ± 2σ (Ma)	MSWD	39Ar(k) (%,n)	K/Ca ± 2σ
Age Plateau	0.6180 ± 0.0063 ± 1.03%	1.92 ± 0.02 ± 1.14%	1.09	77.04	14.7 ± 0.2
			36%	8	
	Minimal External Error ± 0.04		1.53	2σ Confidence Limit	
	Analytical Error ± 0.02		1.0457	Error Magnification	
Total Fusion Age	0.6149 ± 0.0058 ± 0.94%	1.91 ± 0.02 ± 1.07%		14	14.4 ± 0.6
	Minimal External Error ± 0.04				
	Analytical Error ± 0.02				

Normal Isochron			39(k)/36(a) ± 2σ	40(a+r)/36(a) ± 2σ	r.i.
06C3597	0.09 W		46.9 ± 17.6	158.7 ± 59.6	0.9921
06C3598	0.27 W				
06C3600	0.53 W				
06C3601	0.62 W		3957.9 ± 2216.0	2492.9 ± 1395.8	0.9999
06C3603	0.85 W		5101.6 ± 2239.0	3252.3 ± 1427.3	0.9999
06C3604	0.97 W	✓	40308.5 ± 87867.3	25675.0 ± 55968.3	1.0000
06C3606	1.06 W	✓	10965.4 ± 7679.5	7047.7 ± 4935.9	1.0000
06C3607	1.30 W	✓	36311.3 ± 67680.0	23137.8 ± 43126.0	1.0000
06C3609	1.50 W	✓	11326.8 ± 7967.6	7262.8 ± 5108.8	1.0000
06C3610	1.86 W	✓	6469.1 ± 2340.7	4210.9 ± 1523.6	0.9999
06C3612	2.39 W	✓	9369.4 ± 4273.7	6025.4 ± 2748.3	0.9999
06C3613	3.18 W	✓	11249.4 ± 7128.2	7214.4 ± 4571.4	1.0000
06C3615	4.42 W	✓	11770.2 ± 10606.2	7631.1 ± 6876.6	1.0000
06C3616	5.38 W				

Results	40(a)/36(a) ± 2σ	40(r)/39(k) ± 2σ	Age ± 2σ (Ma)	MSWD
Normal Isochron	89.7736 ± 55.6242 ± 61.96%	0.6345 ± 0.0051 ± 0.81%	1.97 ± 0.02 ± 0.95%	0.35 91%
			Minimal External Error ± 0.04	
			Analytical Error ± 0.02	

Statistics				
	2σ Confidence Limit	2.15	Convergence	0.0000000464
	Error Magnification	1.0000	Number of Iterations	1
	Number of Data Points	8	Calculated Line	Weighted York-2

Inverse Isochron			39(k)/40(a+r) ± 2σ	36(a)/40(a+r) ± 2σ	r.i.
06C3597	0.09 W		0.295564 ± 0.013950	0.006301 ± 0.002364	0.0635
06C3598	0.27 W				
06C3600	0.53 W				
06C3601	0.62 W		1.587660 ± 0.014698	0.000401 ± 0.000225	0.0115
06C3603	0.85 W		1.568618 ± 0.010012	0.000307 ± 0.000135	0.0048
06C3604	0.97 W	✓	1.569949 ± 0.007941	0.000039 ± 0.000085	0.0012
06C3606	1.06 W	✓	1.555873 ± 0.009866	0.000142 ± 0.000099	0.0062
06C3607	1.30 W	✓	1.569354 ± 0.007736	0.000043 ± 0.000081	0.0013
06C3609	1.50 W	✓	1.559554 ± 0.006935	0.000138 ± 0.000097	0.0019
06C3610	1.86 W	✓	1.536272 ± 0.006635	0.000237 ± 0.000086	0.0044
06C3612	2.39 W	✓	1.554990 ± 0.007201	0.000166 ± 0.000076	0.0041
06C3613	3.18 W	✓	1.559293 ± 0.006063	0.000139 ± 0.000088	0.0016
06C3615	4.42 W	✓	1.542384 ± 0.009429	0.000131 ± 0.000118	0.0042
06C3616	5.38 W				

Results	40(a)/36(a) ± 2σ	40(r)/39(k) ± 2σ	Age ± 2σ (Ma)	MSWD
Inverse Isochron	117.5098 ± 67.5615	0.6326 ± 0.0058	1.97 ± 0.02	0.43
Clustered Data Points	± 57.49%	± 0.92%	± 1.05%	86%
		Minimal External Error	± 0.04	
		Analytical Error	± 0.02	

Statistics				
	2σ Confidence Limit	2.15	Convergence	0.0015185412
	Error Magnification	1.0000	Number of Iterations	3
	Number of Data Points	8	Calculated Line	Weighted York-2
	Spreading Factor	2.1%		

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Relative Abundances			36Ar	%1σ	37Ar	%1σ	38Ar	%1σ	39Ar	%1σ	40Ar	%1σ	Age ± 2σ (Ma)	40Ar(r) (%)	39Ar(k) (%)	K/Ca ± 2σ
06C3597	0.09 W		0.0000499	18.579	0.0010643	1.484	0.0001327	10.305	0.0023281	1.660	0.0078781	1.676	0.00 ± 0.00	0.00	0.07	0.9 ± 0.1
06C3598	0.27 W		0.0000276	29.402	0.0015630	2.210	0.0005995	2.769	0.0448942	0.228	0.0369533	0.660	2.55 ± 0.04	99.80	1.34	12.4 ± 0.7
06C3600	0.53 W		0.0000011	1198.708	0.0050319	0.893	0.0020899	0.935	0.1659463	0.262	0.1061657	0.265	1.98 ± 0.02	99.74	4.94	14.2 ± 0.6
06C3601	0.62 W		0.0000521	27.112	0.0060950	0.918	0.0024422	0.515	0.1996051	0.255	0.1260494	0.380	1.73 ± 0.13	87.92	5.94	14.1 ± 0.6
06C3603	0.85 W		0.0000578	21.070	0.0085421	0.851	0.0034626	0.746	0.2831327	0.261	0.1809614	0.172	1.80 ± 0.08	90.68	8.43	14.3 ± 0.6
06C3604	0.97 W	✓	0.0000099	82.664	0.0089059	0.616	0.0036990	0.563	0.3031860	0.177	0.1936146	0.168	1.96 ± 0.05	98.59	9.02	14.6 ± 0.6
06C3606	1.06 W	✓	0.0000331	32.191	0.0099315	0.599	0.0039888	0.732	0.3337495	0.178	0.2150556	0.254	1.91 ± 0.06	95.56	9.93	14.4 ± 0.6
06C3607	1.30 W	✓	0.0000114	72.093	0.0096327	0.649	0.0038859	0.550	0.3214842	0.178	0.2053774	0.157	1.96 ± 0.05	98.47	9.57	14.4 ± 0.6
06C3609	1.50 W	✓	0.0000295	32.302	0.0089491	0.583	0.0037478	0.715	0.3070012	0.186	0.1973545	0.103	1.91 ± 0.06	95.69	9.14	14.8 ± 0.6
06C3610	1.86 W	✓	0.0000554	17.222	0.0098943	0.632	0.0041152	0.576	0.3414199	0.172	0.2227980	0.114	1.88 ± 0.05	92.75	10.16	14.8 ± 0.6
06C3612	2.39 W	✓	0.0000431	21.246	0.0109665	0.620	0.0045280	0.685	0.3763956	0.179	0.2426726	0.132	1.90 ± 0.05	94.85	11.20	14.8 ± 0.6
06C3613	3.18 W	✓	0.0000359	29.136	0.0107228	0.617	0.0044362	0.601	0.3713376	0.168	0.2387527	0.074	1.91 ± 0.05	95.66	11.05	14.9 ± 0.6
06C3615	4.42 W	✓	0.0000217	41.258	0.0068098	0.861	0.0027704	0.822	0.2343082	0.189	0.1522965	0.231	1.94 ± 0.07	95.88	6.97	14.8 ± 0.6
06C3616	5.38 W		0.0000016	584.832	0.0022097	1.541	0.0008304	1.267	0.0756546	0.183	0.0500659	0.408	2.05 ± 0.02	99.75	2.25	14.7 ± 0.7
		Σ	0.0003696	10.363	0.1003187	0.206	0.0407287	0.205	3.3604431	0.057	2.1759956	0.054				

Information on Analysis and Constants Used in Calculations

Sample = TAM-2 3E4-06
Material = K-Feldspar 210-500µm
Location = Tama'i, Samoa
Analyst = Jamie Russell
Project = SAMOA
Mass Discrimination Law = LIN
Irradiation = OSU3E06
J = 0.00172010 ± 0.00000430
FCT-3 = 28.030 ± 0.003 Ma
IGSN = KOP000050
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 = Trachybasalt
Lat-Lon = 13°45.3'S - 170°32.1'E

Age Equations = Conventional
Negative Intensities = Forced Zero
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
No 36Cl Correction

Results	40(r)/39(k) ± 2σ	Age ± 2σ (Ma)	MSWD	39Ar(k) (%,n)	K/Ca ± 2σ
Age Plateau	0.6180 ± 0.0063	1.92 ± 0.02	1.09	77.04	14.7 ± 0.2
	± 1.03%	± 1.14%	36%	8	
	Minimal External Error ± 0.04		1.53	2σ Confidence Limit	
	Analytical Error ± 0.02		1.0457	Error Magnification	
Total Fusion Age	0.6149 ± 0.0058	1.91 ± 0.02		14	14.4 ± 0.6
	± 0.94%	± 1.07%			
	Minimal External Error ± 0.04				
	Analytical Error ± 0.02				
Normal Isochron	0.6345 ± 0.0051	1.97 ± 0.02	0.35	77.04	
	± 0.81%	± 0.95%	91%	8	
	Minimal External Error ± 0.04		2.15	2σ Confidence Limit	
	Analytical Error ± 0.02		1.0000	Error Magnification	
Inverse Isochron	0.6326 ± 0.0058	1.97 ± 0.02	0.43	77.04	
Clustered Data Points	± 0.92%	± 1.05%	86%	8	
	Minimal External Error ± 0.04		2.15	2σ Confidence Limit	
	Analytical Error ± 0.02		1.0000	Error Magnification	

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
06C3597	0.09 W		0.000050	18.69	0.000000	0.00	0.000000	1.53	0.000000	0.00	0.001064	1.48	0.000009	18.69	0.000000	0.00	0.000028	1.66	0.000000	21.95	0.000095	14.49	0.002327	1.66	0.000001	2.36	0.000000	0.00	0.014661	18.69	0.000000	0.00	0.000004	24.96
06C3598	0.27 W		0.000000	0.00	0.000000	0.00	0.000028	29.40	0.000000	0.00	0.001563	2.21	0.000000	0.00	0.000000	0.00	0.000544	0.25	0.000000	22.01	0.000056	29.86	0.044893	0.23	0.000001	2.87	0.036879	0.66	0.000000	0.00	0.000000	0.00	0.000074	24.90
06C3600	0.53 W		0.000000	0.00	0.000000	0.00	0.000001	1198.71	0.000000	0.00	0.005032	0.89	0.000000	0.00	0.000000	0.00	0.002010	0.28	0.000000	21.92	0.000080	25.36	0.165943	0.26	0.000004	2.04	0.105892	0.27	0.000000	0.00	0.000000	0.00	0.000274	24.90
06C3601	0.62 W		0.000050	27.99	0.000000	0.00	0.000002	0.99	0.000000	0.00	0.006095	0.92	0.000009	27.99	0.000000	0.00	0.002417	0.27	0.000000	21.92	0.000015	93.65	0.199601	0.25	0.000004	2.05	0.110818	3.79	0.014902	27.99	0.000000	0.00	0.000329	24.90
06C3603	0.85 W		0.000055	21.94	0.000000	0.00	0.000002	0.93	0.000000	0.00	0.008542	0.85	0.000010	21.94	0.000000	0.00	0.003429	0.28	0.000000	21.92	0.000023	118.44	0.283127	0.26	0.000006	2.02	0.164095	2.20	0.016400	21.94	0.000000	0.00	0.000467	24.90
06C3604	0.97 W	✓	0.000008	108.99	0.000000	0.00	0.000002	0.72	0.000000	0.00	0.008906	0.62	0.000001	108.99	0.000000	0.00	0.003672	0.20	0.000000	21.91	0.000026	85.81	0.303180	0.18	0.000006	1.93	0.190892	1.28	0.002223	108.99	0.000000	0.00	0.000500	24.90
06C3606	1.06 W	✓	0.000030	35.02	0.000000	0.00	0.000003	0.70	0.000000	0.00	0.009932	0.60	0.000006	35.02	0.000000	0.00	0.004042	0.20	0.000000	21.91	0.000000	0.00	0.333742	0.18	0.000007	1.93	0.205511	1.56	0.008994	35.02	0.000000	0.00	0.000551	24.90
06C3607	1.30 W	✓	0.000009	93.19	0.000000	0.00	0.000003	0.75	0.000000	0.00	0.009633	0.65	0.000002	93.19	0.000000	0.00	0.003893	0.20	0.000000	21.91	0.000000	0.00	0.321477	0.18	0.000007	1.94	0.202231	1.22	0.002616	93.19	0.000000	0.00	0.000530	24.90
06C3609	1.50 W	✓	0.000027	35.17	0.000000	0.00	0.000002	0.69	0.000000	0.00	0.008949	0.58	0.000005	35.17	0.000000	0.00	0.003718	0.21	0.000000	21.91	0.000025	112.87	0.306995	0.19	0.000006	1.92	0.188839	1.50	0.008009	35.17	0.000000	0.00	0.000507	24.90
06C3610	1.86 W	✓	0.000053	18.09	0.000000	0.00	0.000003	0.73	0.000000	0.00	0.009894	0.63	0.000010	18.09	0.000000	0.00	0.004135	0.20	0.000000	21.91	0.000000	0.00	0.341413	0.17	0.000007	1.94	0.206639	1.37	0.015595	18.09	0.000000	0.00	0.000563	24.90
06C3612	2.39 W	✓	0.000040	22.81	0.000000	0.00	0.000003	0.72	0.000000	0.00	0.010966	0.62	0.000008	22.81	0.000000	0.00	0.004558	0.21	0.000000	21.91	0.000000	0.00	0.376388	0.18	0.000008	1.93	0.230181	1.19	0.011871	22.81	0.000000	0.00	0.000621	24.90
06C3613	3.18 W	✓	0.000033	31.68	0.000000	0.00	0.000003	0.72	0.000000	0.00	0.010723	0.62	0.000006	31.68	0.000000	0.00	0.004497	0.20	0.000000	21.91	0.000000	0.00	0.371330	0.17	0.000008	1.93	0.228386	1.36	0.009754	31.68	0.000000	0.00	0.000613	24.90
06C3615	4.42 W	✓	0.000020	45.06	0.000000	0.00	0.000002	0.94	0.000000	0.00	0.006810	0.86	0.000004	45.06	0.000000	0.00	0.002837	0.21	0.000000	21.92	0.000000	0.00	0.234303	0.19	0.000005	2.02	0.146027	1.83	0.005882	45.06	0.000000	0.00	0.000387	24.90
06C3616	5.38 W		0.000000	0.00	0.000000	0.00	0.000002	584.83	0.000000	0.00	0.002210	1.54	0.000000	0.00	0.000000	0.00	0.000916	0.21	0.000000	21.95	0.000000	0.00	0.075653	0.18	0.000002	2.39	0.049941	0.41	0.000000	0.00	0.000000	0.00	0.000125	24.90
		Σ	0.000375	8.99	0.000000	0.00	0.000006	315.53	0.000000	0.00	0.100319	0.21	0.000070	8.99	0.000000	0.00	0.040694	0.06	0.000003	6.46	0.000321	17.45	3.360372	0.06	0.000071	0.58	2.066330	0.47	0.110907	8.99	0.000000	0.00	0.005545	7.44
		Σ							0.000370	10.36	0.100319	0.21									0.041088	0.15			3.360443	0.06							2.182782	0.64

Additional Parameters			40(r)/39(k)	1σ	40(r+a)	1σ	40Ar/39Ar	1σ	37Ar/39Ar	1σ	36Ar/39Ar	1σ	Time (days)	37Ar (decay)	39Ar (decay)	40Ar (moles)
06C3597	0.09 W		0.000000	0.00000	0.007874	0.00013	3.383916	0.07983	0.457168	0.01018	0.021434	0.00400	31.808	1.87898637	1.00022534	7.973E-22
06C3598	0.27 W		0.821490	0.00576	0.036879	0.00024	0.823120	0.00575	0.034815	0.00077	0.000616	0.00018	31.834	1.87996602	1.00022553	3.740E-21
06C3600	0.53 W		0.638123	0.00242	0.105892	0.00029	0.639759	0.00239	0.030322	0.00028	0.000007	0.00008	31.874	1.88146225	1.00022581	1.074E-20
06C3601	0.62 W		0.555196	0.02109	0.125720	0.00049	0.631494	0.00289	0.030535	0.00029	0.000261	0.00007	31.895	1.88223663	1.00022596	1.276E-20
06C3603	0.85 W		0.579581	0.01285	0.180494	0.00033	0.639140	0.00200	0.030170	0.00027	0.000204	0.00004	31.940	1.88388971	1.00022627	1.831E-20
06C3604	0.97 W	✓	0.629633	0.00815	0.193114	0.00035	0.638600	0.00156	0.029374	0.00019	0.000033	0.00003	31.960	1.88466509	1.00022642	1.959E-20
06C3606	1.06 W	✓	0.615777	0.00965	0.214505	0.00056	0.644362	0.00200	0.029757	0.00019	0.000099	0.00003	32.002	1.88621681	1.00022671	2.176E-20
06C3607	1.30 W	✓	0.629067	0.00774	0.204847	0.00035	0.638841	0.00152	0.029963	0.00020	0.000036	0.00003	32.022	1.88696726	1.00022686	2.078E-20
06C3609	1.50 W	✓	0.615120	0.00928	0.196848	0.00024	0.642846	0.00137	0.029150	0.00018	0.000096	0.00003	32.064	1.88852088	1.00022715	1.997E-20
06C3610	1.86 W	✓	0.605247	0.00837	0.222235	0.00029	0.652563	0.00135	0.028980	0.00019	0.000162	0.00003	32.085	1.88929816	1.00022730	2.255E-20
06C3612	2.39 W	✓	0.611552	0.00734	0.242052	0.00036	0.644728	0.00143	0.029136	0.00019	0.000115	0.00002	32.126	1.89085369	1.00022759	2.456E-20
06C3613	3.18 W	✓	0.615048	0.00841	0.238140	0.00023	0.642953	0.00118	0.028876	0.00018	0.000097	0.00003	32.147	1.89160599	1.00022773	2.416E-20
06C3615	4.42 W	✓	0.623241	0.01148	0.151910	0.00036	0.649983	0.00194	0.029064	0.00026	0.000093	0.00004	32.188	1.89313746	1.00022802	1.541E-20
06C3616	5.38 W		0.660133	0.00299	0.049941	0.00021	0.661769	0.00296	0.029208	0.00045	0.000022	0.00013	32.208	1.89391665	1.00022817	5.067E-21

Procedure Blanks		36Ar	1σ	37Ar	1σ	38Ar	1σ	39Ar	1σ	40Ar	1σ
06C3597	0.09 W	0.000013	0.000006	0.000116	0.000006	0.000014	0.000008	0.000014	0.000010	0.003645	0.000023
06C3598	0.27 W	0.000040	0.000007	0.000102	0.000014	0.000005	0.000008	0.000121	0.000008	0.003793	0.000173
06C3600	0.53 W	0.000021	0.000007	0.000098	0.000014	0.000005	0.000008	0.000121	0.000008	0.004916	0.000171
06C3601	0.62 W	0.000018	0.000007	0.000091	0.000014	0.000002	0.000008	0.000152	0.000008	0.005005	0.000170
06C3603	0.85 W	0.000019	0.000007	0.000072	0.000014	0.000010	0.000008	0.000129	0.000008	0.004632	0.000168
06C3604	0.97 W	0.000021	0.000007	0.000064	0.000014	0.000013	0.000008	0.000100	0.000008	0.004357	0.000167
06C3606	1.06 W	0.000025	0.000007	0.000055	0.000014	0.000015	0.000008	0.000052	0.000008	0.003892	0.000167
06C3607	1.30 W	0.000026	0.000007	0.000053	0.000014	0.000014	0.000008	0.000042	0.000008	0.003767	0.000167
06C3609	1.50 W	0.000025	0.000007	0.000055	0.000014	0.000008	0.000008	0.000051	0.000008	0.003754	0.000167
06C3610	1.86 W	0.000023	0.000007	0.000057	0.000014	0.000005	0.000008	0.000066	0.000008	0.003846	0.000168
06C3612	2.39 W	0.000020	0.000007	0.000056	0.000014	0.000002	0.000008	0.000086	0.000008	0.004051	0.000170
06C3613	3.18 W	0.000020	0.000007	0.000050	0.000014	0.000006	0.000008	0.000073	0.000008	0.004051	0.000171
06C3615	4.42 W	0.000028	0.000007	0.000015	0.000014	0.000030	0.000008	0.000073	0.000008	0.003473	0.000173
06C3616	5.38 W	0.000038	0.000007	0.000015	0.000014	0.000056	0.000008	0.000073	0.000008	0.002684	0.000175

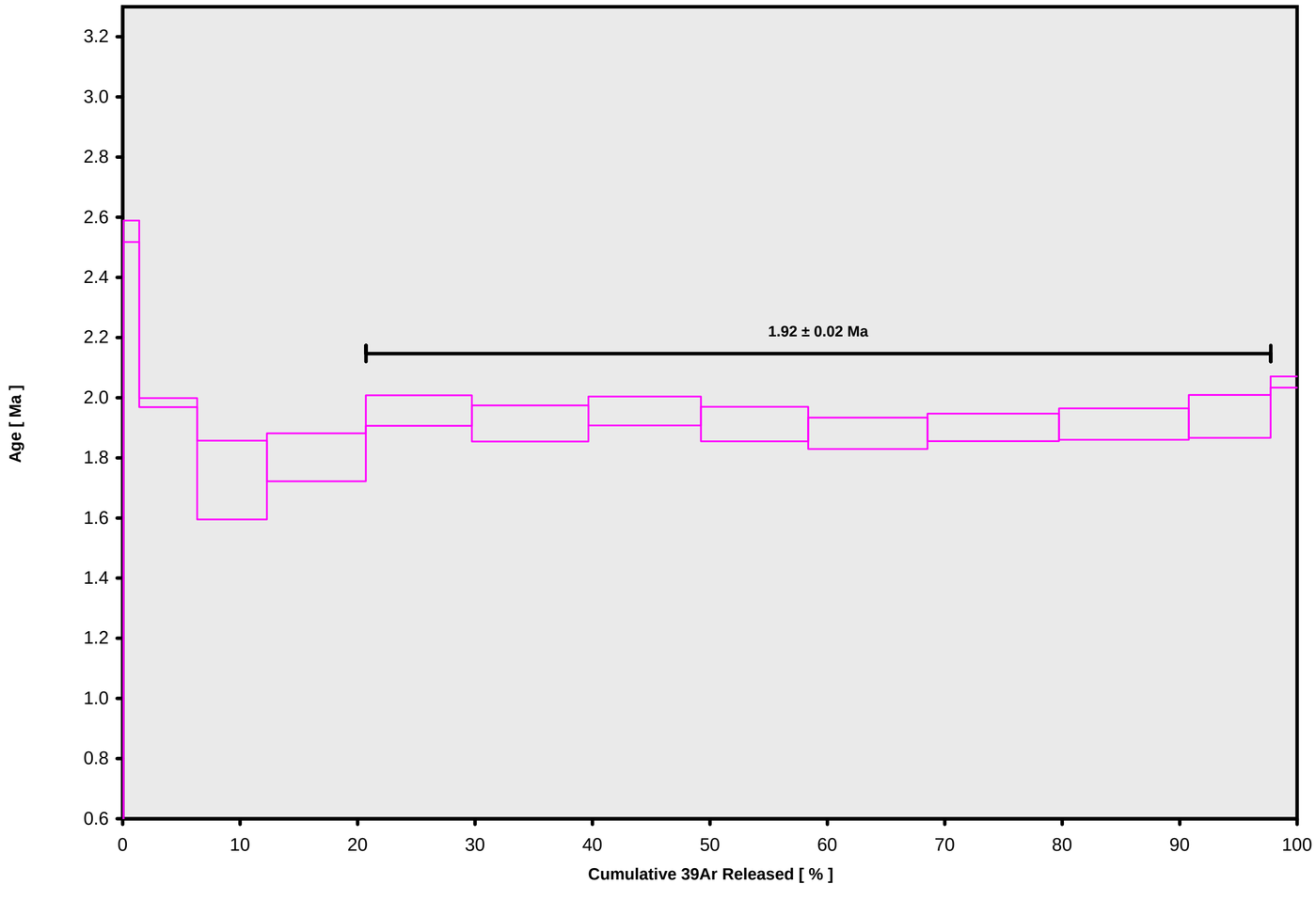
Intercept Values		36Ar	1σ	r2		37Ar	1σ	r2		38Ar	1σ	r2		39Ar	1σ	r2		40Ar	1σ	r2	
06C3597	0.09 W	0.000063	0.000007	0.9946	LIN #	0.000679	0.000005	0.9993	EXP #	0.000145	0.000011	0.9904	LIN #	0.002317	0.000037	0.9999	EXP #	0.011359	0.000128	1.0000	EXP #
06C3598	0.27 W	0.000012	0.000004	0.9984	EXP # 1 7	0.000929	0.000011	0.9970	EXP #	0.000600	0.000014	0.9816	LIN # 12	0.044529	0.000072	0.9994	EXP #	0.040164	0.000169	1.0000	EXP #
06C3600	0.53 W	0.000020	0.000011	0.9982	EXP #	0.002763	0.000015	0.9992	EXP #	0.002080	0.000017	0.9964	EXP #	0.164258	0.000341	0.9977	EXP # 10	0.109483	0.000221	1.0000	EXP #
06C3601	0.62 W	0.000070	0.000012	0.9908	LIN # 1 2	0.003318	0.000021	0.9848	LIN #	0.002427	0.000006	0.9960	LIN # 4 6	0.197582	0.000392	0.2500	LIN # 5 7	0.129168	0.000441	0.9998	EXP #
06C3603	0.85 W	0.000077	0.000010	0.9916	LIN #	0.004589	0.000029	0.9676	LIN #	0.003447	0.000022	0.9047	LIN #	0.280094	0.000577	0.8020	LIN #	0.182868	0.000257	0.9999	EXP #
06C3604	0.97 W	0.000031	0.000004	0.9983	EXP #	0.004772	0.000012	0.9945	EXP # 1	0.003684	0.000015	0.9468	LIN #	0.299866	0.000226	0.9732	EXP # 11	0.195046	0.000276	0.9999	EXP #
06C3606	1.06 W	0.000058	0.000008	0.9583	LIN #	0.005300	0.000013	0.1274	LIN # 6	0.003974	0.000025	0.3483	LIN #	0.330037	0.000258	0.9966	LIN #	0.215712	0.000512	0.9976	EXP #
06C3607	1.30 W	0.000037	0.000005	0.9709	LIN # 12	0.005141	0.000017	0.8215	LIN #	0.003873	0.000015	0.8404	LIN # 12	0.318025	0.000251	0.9969	EXP #	0.206134	0.000272	0.9967	EXP # 9
06C3609	1.50 W	0.000054	0.000007	0.7811	LIN #	0.004775	0.000007	0.9737	LIN # 1 9	0.003728	0.000023	0.9247	LIN # 1 2	0.303529	0.000290	0.9969	LIN #	0.198097	0.000112	0.9926	EXP # 1 12
06C3610	1.86 W	0.000078	0.000007	0.7176	LIN #	0.005272	0.000016	0.8721	LIN #	0.004088	0.000018	0.9186	LIN #	0.337501	0.000210	0.9985	LIN #	0.223207	0.000189	0.9616	LIN # 8
06C3612	2.39 W	0.000063	0.000006	0.7901	LIN #	0.005832	0.000018	0.9426	LIN # 6	0.004496	0.000026	0.8765	LIN #	0.372125	0.000300	0.9975	EXP #	0.243006	0.000267	0.2890	LIN # 5 11
06C3613	3.18 W	0.000055	0.000008	0.7020	LIN #	0.005696	0.000017	0.9303	LIN # 1 3 11	0.004408	0.000021	0.8947	LIN #	0.367148	0.000189	0.9991	LIN #	0.239168	0.000041	0.9863	LIN # 1 5 6 12
06C3615	4.42 W	0.000049	0.000006	0.5455	LIN #	0.003600	0.000021	0.7671	LIN # 7	0.002780	0.000019	0.7872	LIN #	0.231806	0.000234	0.9968	LIN # 1	0.153512	0.000302	0.7290	LIN # 1 2 12
06C3616	5.38 W	0.000036	0.000007	0.1642	LIN #	0.001178	0.000010	0.2626	LIN #	0.000879	0.000007	0.5092	LIN # 6	0.074895	0.000067	0.9973	EXP # 2	0.051986	0.000104	0.9952	LIN # 1

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
06C3597	0.09 W	TAM-2 3E4-06	K-Feldspar 210-500µm	Tama'i, Samoa	Jamie Russell	0.09	28.03	0.01	0.0017201	0.25	1.00378	0.16	1.0144	1.012E-19	28	OCT	2006	09	51	001	OSU3E06	Samoa	06C3597	01	FCT-3
06C3598	0.27 W	TAM-2 3E4-06	K-Feldspar 210-500µm	Tama'i, Samoa	Jamie Russell	0.27	28.03	0.01	0.0017201	0.25	1.00378	0.16	1.0145	1.012E-19	28	OCT	2006	10	29	001	OSU3E06	Samoa	06C3597	01	FCT-3
06C3600	0.53 W	TAM-2 3E4-06	K-Feldspar 210-500µm	Tama'i, Samoa	Jamie Russell	0.53	28.03	0.01	0.0017201	0.25	1.00378	0.16	1.0146	1.012E-19	28	OCT	2006	11	27	001	OSU3E06	Samoa	06C3597	01	FCT-3
06C3601	0.62 W	TAM-2 3E4-06	K-Feldspar 210-500µm	Tama'i, Samoa	Jamie Russell	0.62	28.03	0.01	0.0017201	0.25	1.00378	0.16	1.0146	1.012E-19	28	OCT	2006	11	57	001	OSU3E06	Samoa	06C3597	01	FCT-3
06C3603	0.85 W	TAM-2 3E4-06	K-Feldspar 210-500µm	Tama'i, Samoa	Jamie Russell	0.85	28.03	0.01	0.0017201	0.25	1.00378	0.16	1.0149	1.012E-19	28	OCT	2006	13	01	001	OSU3E06	Samoa	06C3597	01	FCT-3
06C3604	0.97 W	TAM-2 3E4-06	K-Feldspar 210-500µm	Tama'i, Samoa	Jamie Russell	0.97	28.03	0.01	0.0017201	0.25	1.00378	0.16	1.015	1.012E-19	28	OCT	2006	13	31	001	OSU3E06	Samoa	06C3597	01	FCT-3
06C3606	1.06 W	TAM-2 3E4-06	K-Feldspar 210-500µm	Tama'i, Samoa	Jamie Russell	1.06	28.03	0.01	0.0017201	0.25	1.00378	0.16	1.015	1.012E-19	28	OCT	2006	14	31	001	OSU3E06	Samoa	06C3597	01	FCT-3
06C3607	1.30 W	TAM-2 3E4-06	K-Feldspar 210-500µm	Tama'i, Samoa	Jamie Russell	1.3	28.03	0.01	0.0017201	0.25	1.00378	0.16	1.0146	1.012E-19	28	OCT	2006	15	00	001	OSU3E06	Samoa	06C3597	01	FCT-3
06C3609	1.50 W	TAM-2 3E4-06	K-Feldspar 210-500µm	Tama'i, Samoa	Jamie Russell	1.5	28.03	0.01	0.0017201	0.25	1.00378	0.16	1.0152	1.012E-19	28	OCT	2006	16	00	001	OSU3E06	Samoa	06C3597	01	FCT-3
06C3610	1.86 W	TAM-2 3E4-06	K-Feldspar 210-500µm	Tama'i, Samoa	Jamie Russell	1.86	28.03	0.01	0.0017201	0.25	1.00378	0.16	1.0154	1.012E-19	28	OCT	2006	16	30	001	OSU3E06	Samoa	06C3597	01	FCT-3
06C3612	2.39 W	TAM-2 3E4-06	K-Feldspar 210-500µm	Tama'i, Samoa	Jamie Russell	2.39	28.03	0.01	0.0017201	0.25	1.00378	0.16	1.0153	1.012E-19	28	OCT	2006	17	30	001	OSU3E06	Samoa	06C3597	01	FCT-3
06C3613	3.18 W	TAM-2 3E4-06	K-Feldspar 210-500µm	Tama'i, Samoa	Jamie Russell	3.18	28.03	0.01	0.0017201	0.25	1.00378	0.16	1.0152	1.012E-19	28	OCT	2006	17	59	001	OSU3E06	Samoa	06C3597	01	FCT-3
06C3615	4.42 W	TAM-2 3E4-06	K-Feldspar 210-500µm	Tama'i, Samoa	Jamie Russell	4.42	28.03	0.01	0.0017201	0.25	1.00378	0.16	1.0147	1.012E-19	28	OCT	2006	18	58	001	OSU3E06	Samoa	06C3597	01	FCT-3
06C3616	5.38 W	TAM-2 3E4-06	K-Feldspar 210-500µm	Tama'i, Samoa	Jamie Russell	5.38	28.03	0.01	0.0017201	0.25	1.00378	0.16	1.0147	1.012E-19	28	OCT	2006	19	28	001	OSU3E06	Samoa	06C3597	01	FCT-3

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
06C3597	0.09 W	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
06C3598	0.27 W	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
06C3600	0.53 W	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
06C3601	0.62 W	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
06C3603	0.85 W	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
06C3604	0.97 W	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
06C3606	1.06 W	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
06C3607	1.30 W	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
06C3609	1.50 W	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
06C3610	1.86 W	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
06C3612	2.39 W	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
06C3613	3.18 W	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
06C3615	4.42 W	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
06C3616	5.38 W	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

40Ar/39Ar Geochronology Laboratory
COAS, Oregon State University, Corvallis, USA

06C3597.AGE >>> TAM-2 3E4-06 >>> SAMOA PROJECT



Ar-Ages in Ma

WEIGHTED PLATEAU
1.92 ± 0.02
TOTAL FUSION
1.91 ± 0.02
NORMAL ISOCHRON
1.97 ± 0.02
INVERSE ISOCHRON
1.97 ± 0.02

MSWD (PROBABILITY)
1.09 (36%)

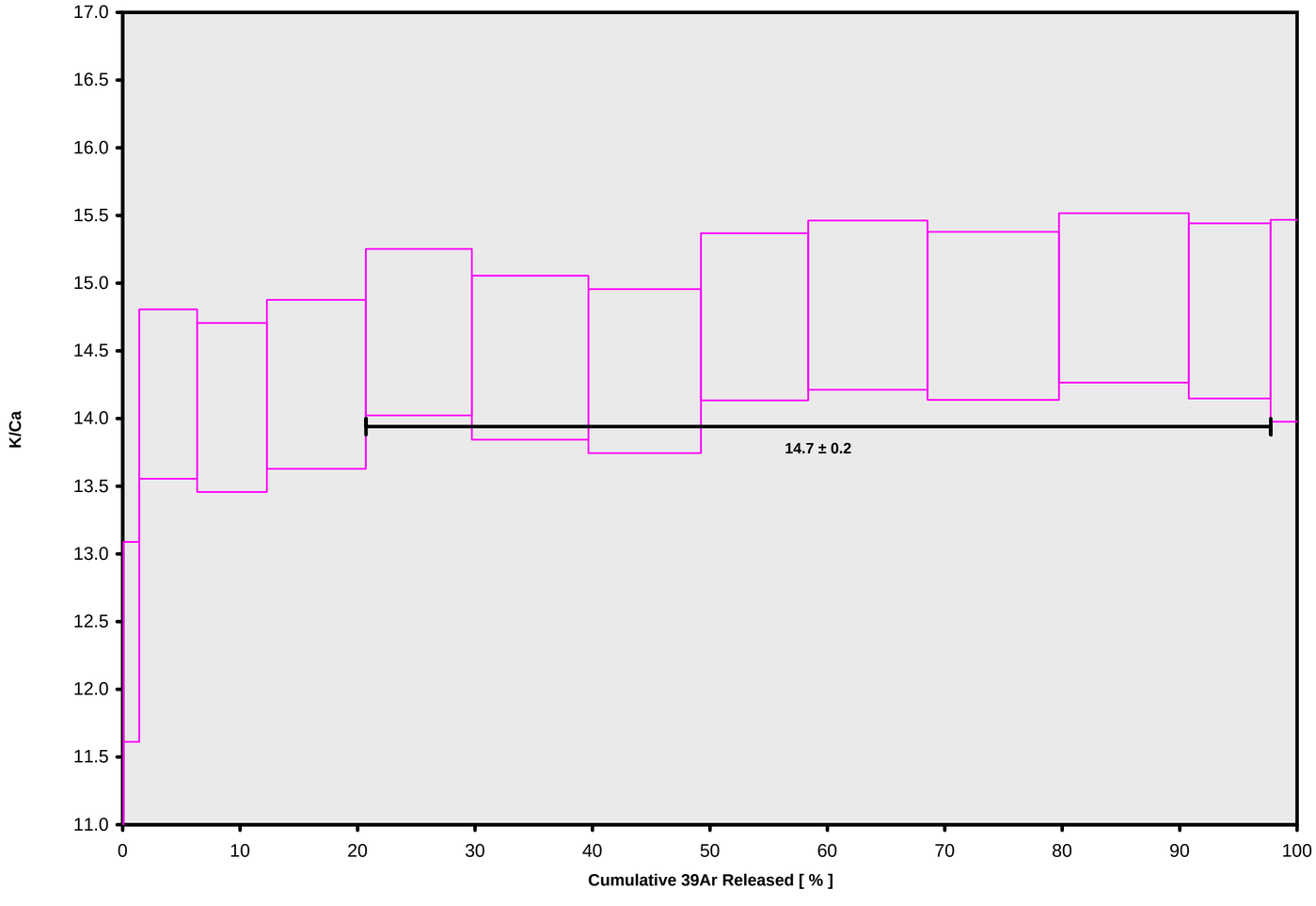
Sample Info

K-Feldspar 210-500µm
Tama'i, Samoa
Jamie Russell

IRR = OSU3E06
J = 0.00172010 ± 0.00000430

40Ar/39Ar Geochronology Laboratory
COAS, Oregon State University, Corvallis, USA

06C3597.AGE >>> TAM-2 3E4-06 >>> SAMOA PROJECT



Ar-Ages in Ma

WEIGHTED PLATEAU
1.92 ± 0.02
TOTAL FUSION
1.91 ± 0.02
NORMAL ISOCHRON
1.97 ± 0.02
INVERSE ISOCHRON
1.97 ± 0.02

Sample Info

K-Feldspar 210-500µm
Tama'i, Samoa
Jamie Russell

IRR = OSU3E06
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40Ar/39Ar Geochronology Laboratory
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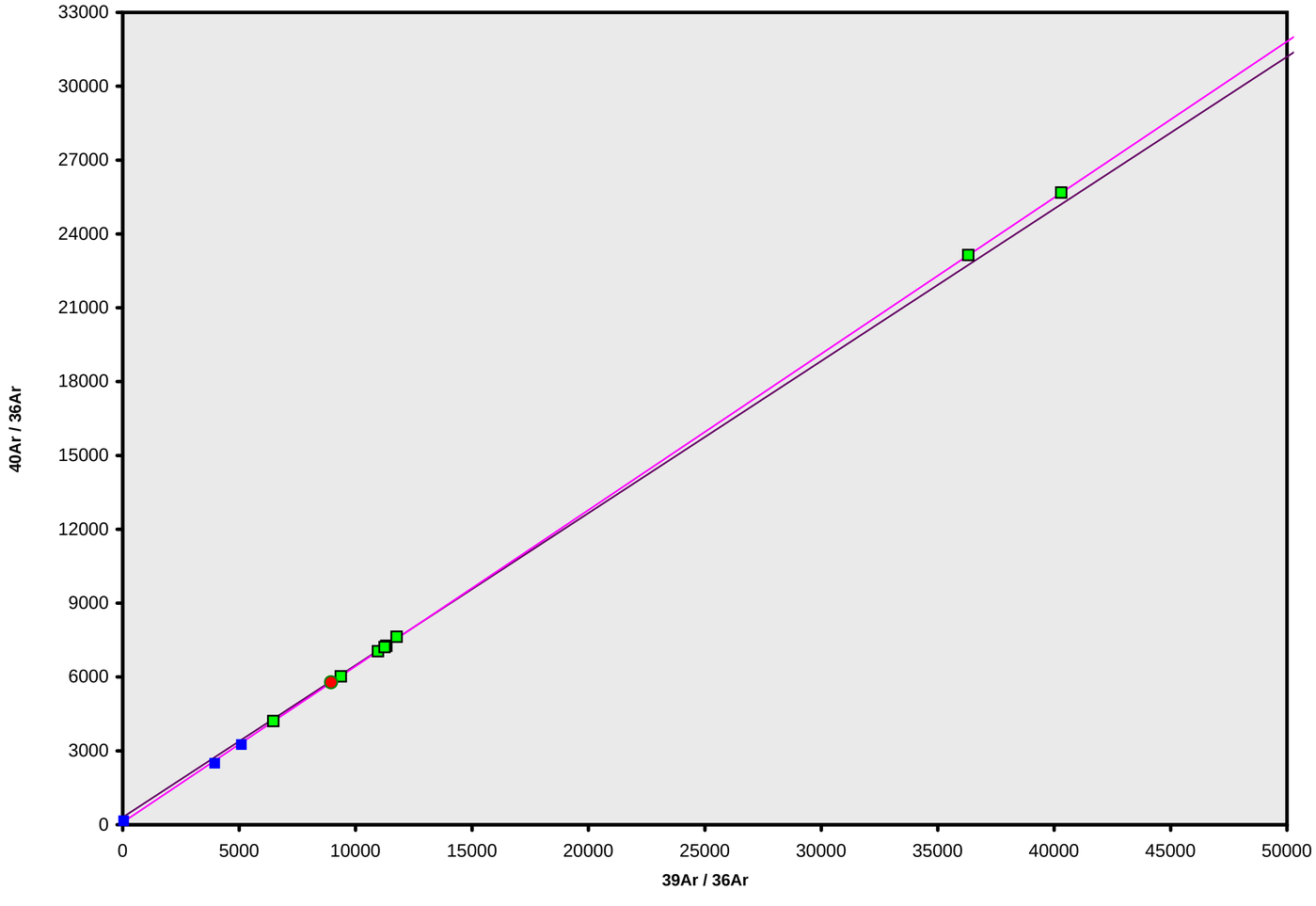
06C3597.AGE >>> TAM-2 3E4-06 >>> SAMOA PROJECT



Ar-Ages in Ma

WEIGHTED PLATEAU
1.92 ± 0.02
TOTAL FUSION
1.91 ± 0.02
NORMAL ISOCHRON
1.97 ± 0.02
INVERSE ISOCHRON
1.97 ± 0.02

MSWD (PROBABILITY)
0.35 (91%)

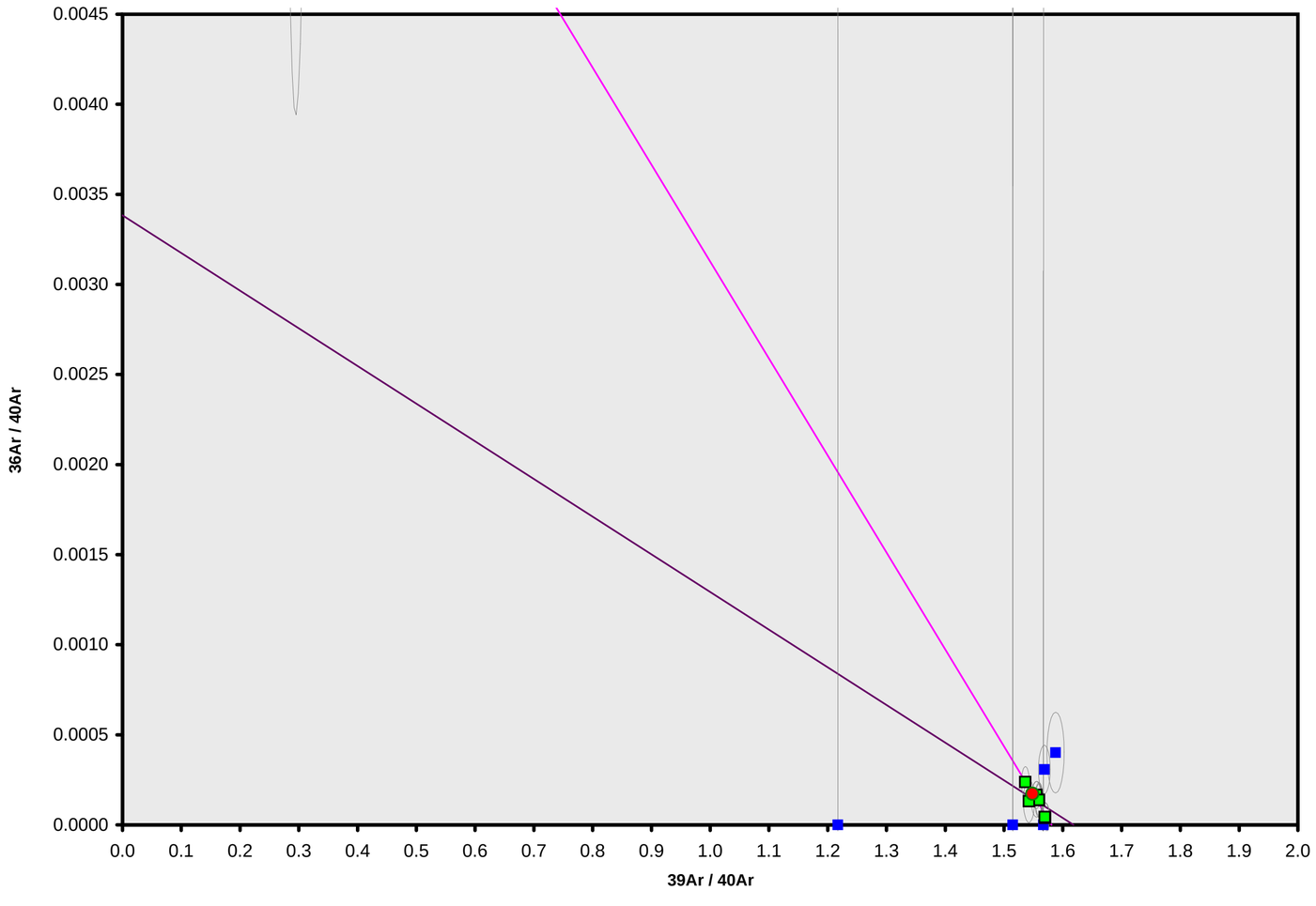
40AR/36AR INTERCEPT
89.8 ± 55.6

Sample Info

K-Feldspar 210-500µm
Tama'i, Samoa
Jamie Russell

IRR = OSU3E06
J = 0.00172010 ± 0.00000430

06C3597.AGE >>> TAM-2 3E4-06 >>> SAMOA PROJECT



Ar-Ages in Ma

WEIGHTED PLATEAU
1.92 ± 0.02
TOTAL FUSION
1.91 ± 0.02
NORMAL ISOCHRON
1.97 ± 0.02
INVERSE ISOCHRON
1.97 ± 0.02

MSWD (PROBABILITY)
0.43 (86%)

SPREADING FACTOR
2.1%

40AR/36AR INTERCEPT
117.5 ± 67.6

Sample Info

K-Feldspar 210-500µm
Tama'i, Samoa
Jamie Russell

IRR = OSU3E06
J = 0.00172010 ± 0.00000430