Incremental Heating			36Ar(a)	37Ar(ca)	38Ar(cl)	39Ar(k)	40Ar(r)	Age ± 2σ (Ma)	40Ar(r) (%)	39Ar(k) (%)	K/Ca ± 2σ
06C3069	0.06 W		0.000011	0.011672	0.000007	0.001890	0.006682	12.38 ± 12.70	68.25	0.55	0.0696 ± 0.0041
06C3070	0.35 W	✓	0.000005	0.189900	0.000006	0.028680	0.046466	5.68 ± 0.79	96.53	8.41	0.0649 ± 0.0027
06C3072	0.53 W	✓	0.000055	0.228544	0.000003	0.033633	0.049701	5.19 ± 0.95	75.42	9.86	0.0633 ± 0.0027
06C3073	0.77 W	✓	0.000023	0.320584	0.000013	0.044865	0.067470	5.28 ± 0.60	90.90	13.15	0.0602 ± 0.0025
06C3075	1.12 W	✓	0.000028	0.397844	0.000017	0.056628	0.083069	5.15 ± 0.44	90.86	16.60	0.0612 ± 0.0026
06C3076	1.59 W	✓	0.000029	0.395541	0.000011	0.053729	0.077921	5.09 ± 0.44	89.98	15.75	0.0584 ± 0.0025
06C3078	2.36 W	✓	0.000020	0.385275	0.000008	0.051621	0.080190	5.45 ± 0.44	93.15	15.13	0.0576 ± 0.0025
06C3079	3.18 W	✓	0.000009	0.252450	0.000016	0.034845	0.053959	5.43 ± 0.77	95.33	10.21	0.0594 ± 0.0025
06C3081	4.04 W	✓	0.000016	0.158421	0.000003	0.020912	0.030111	5.05 ± 1.12	86.00	6.13	0.0568 ± 0.0024
06C3083	4.83 W	✓	0.000004	0.109527	0.000009	0.014326	0.024490	6.00 ± 1.43	95.66	4.20	0.0562 ± 0.0024
		Σ	0.000199	2.449758	0.000045	0.341130	0.520060				

Information on Analysis

Sample = SAV-4 2F11-06
Material = Plagioclase 210-300µm
Location = Savai'i Island, Samoa
Analyst = Anthony Koppers
Project = SAMOA
Mass Discrimination Law = LIN
Irradiation = OSU2F06
J = 0.00194350 ± 0.00000564
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	1.5068 ± 0.0584	5.29 ± 0.21	0.51	99.45	0.0596 ± 0.0019
	± 3.88%	± 3.91%	85%	9	
	Minimal External Error ± 0.23		1.50	2σ Confidence Limit	
	Analytical Error ± 0.20		1.0000	Error Magnification	
Total Fusion Age	1.5245 ± 0.0660	5.35 ± 0.23		10	0.0599 ± 0.0024
	± 4.33%	± 4.36%			
	Minimal External Error ± 0.25				
	Analytical Error ± 0.23				

Normal Isochron			39(k)/36(a) ± 2σ	40(a+r)/36(a) ± 2σ	r.i.
06C3069	0.06 W		179.9 ± 398.0	931.4 ± 2060.9	0.9999
06C3070	0.35 W	✓	5220.8 ± 20797.9	8753.9 ± 34872.7	1.0000
06C3072	0.53 W	✓	615.6 ± 346.2	1205.1 ± 677.9	0.9999
06C3073	0.77 W	✓	1985.6 ± 2264.6	3281.6 ± 3742.7	1.0000
06C3075	1.12 W	✓	2026.3 ± 1757.4	3267.9 ± 2834.2	1.0000
06C3076	1.59 W	✓	1848.5 ± 1444.9	2976.3 ± 2326.5	1.0000
06C3078	2.36 W	✓	2623.0 ± 2926.4	4370.1 ± 4875.6	1.0000
06C3079	3.18 W	✓	3983.3 ± 11709.5	6463.8 ± 19001.0	1.0000
06C3081	4.04 W	✓	1269.1 ± 1734.7	2122.9 ± 2901.8	1.0000
06C3083	4.83 W	✓	3894.4 ± 20967.1	6952.9 ± 37434.2	1.0000

Results	40(a)/36(a) ± 2σ	40(r)/39(k) ± 2σ	Age ± 2σ (Ma)	MSWD
Normal Isochron	22.1638 ± 102.7636	1.6830 ± 0.0568	5.91 ± 0.20	3.83
Error Chron	± 463.65%	± 3.37%	± 3.42%	0%
		Minimal External Error	± 0.23	
		Analytical Error	± 0.20	

Statistics				
2σ Confidence Limit	2.07	Convergence	0.0000002633
Error Magnification	1.9581	Number of Iterations	1
Number of Data Points	9	Calculated Line	Weighted York-2

Inverse Isochron			39(k)/40(a+r) ± 2σ	36(a)/40(a+r) ± 2σ	r.i.
06C3069	0.06 W		0.193110 ± 0.006808	0.001074 ± 0.002376	0.0095
06C3070	0.35 W	✓	0.596394 ± 0.005465	0.000114 ± 0.000455	0.0015
06C3072	0.53 W	✓	0.510781 ± 0.003593	0.000830 ± 0.000467	0.0077
06C3073	0.77 W	✓	0.605082 ± 0.004082	0.000305 ± 0.000348	0.0035
06C3075	1.12 W	✓	0.620059 ± 0.004289	0.000306 ± 0.000265	0.0030
06C3076	1.59 W	✓	0.621076 ± 0.003876	0.000336 ± 0.000263	0.0037
06C3078	2.36 W	✓	0.600204 ± 0.003771	0.000229 ± 0.000255	0.0025
06C3079	3.18 W	✓	0.616255 ± 0.004711	0.000155 ± 0.000455	0.0017
06C3081	4.04 W	✓	0.597808 ± 0.006248	0.000471 ± 0.000644	0.0065
06C3083	4.83 W	✓	0.560107 ± 0.008475	0.000144 ± 0.000774	0.0023

Results	40(a)/36(a) ± 2σ	40(r)/39(k) ± 2σ	Age ± 2σ (Ma)	MSWD
Inverse Isochron	373.4571 ± 368.6392 ± 98.71%	1.4678 ± 0.1430 ± 9.74%	5.15 ± 0.50 ± 9.74%	0.55 80%
		Minimal External Error	± 0.51	
		Analytical Error	± 0.50	

Statistics				
	2σ Confidence Limit	2.07	Convergence	0.0000516677
	Error Magnification	1.0000	Number of Iterations	4
	Number of Data Points	9	Calculated Line	Weighted York-2
	Spreading Factor	16.2%		

Relative Abundances			36Ar	%1σ	37Ar	%1σ	38Ar	%1σ	39Ar	%1σ	40Ar	%1σ	Age ± 2σ (Ma)	40Ar(r) (%)	39Ar(k) (%)	K/Ca ± 2σ
06C3069	0.06 W		0.0000136	85.172	0.0116723	1.801	0.0000324	41.977	0.0018983	1.114	0.0097907	1.362	12.38 ± 12.70	68.25	0.55	0.0696 ± 0.0041
06C3070	0.35 W	✓	0.0000566	19.330	0.1899004	0.617	0.0003608	3.094	0.0288148	0.273	0.0481366	0.366	5.68 ± 0.79	96.53	8.41	0.0649 ± 0.0027
06C3072	0.53 W	✓	0.0001161	13.227	0.2285436	0.681	0.0004279	3.220	0.0337954	0.216	0.0659025	0.276	5.19 ± 0.95	75.42	9.86	0.0633 ± 0.0027
06C3073	0.77 W	✓	0.0001088	11.826	0.3205841	0.606	0.0005703	2.886	0.0450919	0.212	0.0742203	0.260	5.28 ± 0.60	90.90	13.15	0.0602 ± 0.0025
06C3075	1.12 W	✓	0.0001350	8.959	0.3978442	0.655	0.0007202	1.982	0.0569105	0.272	0.0914209	0.210	5.15 ± 0.44	90.86	16.60	0.0612 ± 0.0026
06C3076	1.59 W	✓	0.0001355	8.356	0.3955406	0.813	0.0006797	2.170	0.0540099	0.228	0.0865990	0.210	5.09 ± 0.44	89.98	15.75	0.0584 ± 0.0025
06C3078	2.36 W	✓	0.0001233	8.877	0.3852750	0.703	0.0006331	1.960	0.0518941	0.233	0.0860908	0.208	5.45 ± 0.44	93.15	15.13	0.0576 ± 0.0025
06C3079	3.18 W	✓	0.0000767	16.761	0.2524498	0.628	0.0004156	3.451	0.0350243	0.219	0.0566012	0.311	5.43 ± 0.77	95.33	10.21	0.0594 ± 0.0025
06C3081	4.04 W	✓	0.0000591	19.049	0.1584210	0.670	0.0002648	4.516	0.0210240	0.198	0.0350151	0.482	5.05 ± 1.12	86.00	6.13	0.0568 ± 0.0024
06C3083	4.83 W	✓	0.0000331	29.870	0.1095266	0.799	0.0001868	6.475	0.0144036	0.316	0.0256008	0.686	6.00 ± 1.43	95.66	4.20	0.0562 ± 0.0024
		Σ	0.0008578	4.424	2.4497576	0.247	0.0042920	1.000	0.3428669	0.085	0.5793779	0.096				

Information on Analysis and Constants Used in Calculations

Sample = SAV-4 2F11-06
Material = Plagioclase 210-300µm
Location = Savai'i Island, Samoa
Analyst = Anthony Koppers
Project = SAMOA
Mass Discrimination Law = LIN
Irradiation = OSU2F06
J = 0.00194350 ± 0.00000564
FCT-3 = 28.030 ± 0.003 Ma
IGSN = KOP000010
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°05.5'S - 172°56.5'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
No 36Cl Correction

Results	40(r)/39(k) ± 2σ	Age ± 2σ (Ma)	MSWD	39Ar(k) (%,n)	K/Ca ± 2σ
Age Plateau	1.5068 ± 0.0584 ± 3.88%	5.29 ± 0.21 ± 3.91%	0.51 85%	99.45 9	0.0596 ± 0.0019
	Minimal External Error ± 0.23		1.50	2σ Confidence Limit	
	Analytical Error ± 0.20		1.0000	Error Magnification	
Total Fusion Age	1.5245 ± 0.0660 ± 4.33%	5.35 ± 0.23 ± 4.36%		10	0.0599 ± 0.0024
	Minimal External Error ± 0.25				
	Analytical Error ± 0.23				
Normal Isochron	1.6830 ± 0.0568 ± 3.37%	5.91 ± 0.20 ± 3.42%	3.83 0%	99.45 9	
Error Chron	Minimal External Error ± 0.23		2.07	2σ Confidence Limit	
	Analytical Error ± 0.20		1.9581	Error Magnification	
Inverse Isochron	1.4678 ± 0.1430 ± 9.74%	5.15 ± 0.50 ± 9.74%	0.55 80%	99.45 9	
	Minimal External Error ± 0.51		2.07	2σ Confidence Limit	
	Analytical Error ± 0.50		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
06C3069	0.06 W		0.000011	110.62	0.000000	0.00	0.000003	1.84	0.000000	0.00	0.011672	1.80	0.000002	110.62	0.000000	0.00	0.000023	1.12	0.000000	21.97	0.000007	191.12	0.001890	1.12	0.000008	2.57	0.006682	51.44	0.003105	110.62	0.000000	0.00	0.000003	24.93
06C3070	0.35 W	✓	0.000005	199.18	0.000000	0.00	0.000051	0.72	0.000000	0.00	0.189900	0.62	0.000001	199.18	0.000000	0.00	0.000347	0.29	0.000006	21.91	0.000006	179.57	0.028680	0.27	0.000135	1.93	0.046466	6.97	0.001623	199.18	0.000000	0.00	0.000047	24.90
06C3072	0.53 W	✓	0.000055	28.12	0.000000	0.00	0.000061	0.78	0.000000	0.00	0.228544	0.68	0.000010	28.12	0.000000	0.00	0.000407	0.24	0.000007	21.91	0.000003	457.79	0.033633	0.22	0.000162	1.95	0.049701	9.14	0.016146	28.12	0.000000	0.00	0.000055	24.90
06C3073	0.77 W	✓	0.000023	57.03	0.000000	0.00	0.000086	0.71	0.000000	0.00	0.320584	0.61	0.000004	57.03	0.000000	0.00	0.000543	0.24	0.000010	21.91	0.000013	134.33	0.044865	0.21	0.000227	1.93	0.067470	5.65	0.006677	57.03	0.000000	0.00	0.000074	24.90
06C3075	1.12 W	✓	0.000028	43.36	0.000000	0.00	0.000107	0.75	0.000000	0.00	0.397844	0.66	0.000005	43.36	0.000000	0.00	0.000686	0.29	0.000013	21.91	0.000017	89.89	0.056628	0.27	0.000282	1.94	0.083069	4.32	0.008258	43.36	0.000000	0.00	0.000093	24.90
06C3076	1.59 W	✓	0.000029	39.08	0.000000	0.00	0.000106	0.89	0.000000	0.00	0.395541	0.81	0.000005	39.08	0.000000	0.00	0.000651	0.25	0.000013	21.92	0.000011	138.75	0.053729	0.23	0.000280	2.00	0.077921	4.31	0.008589	39.08	0.000000	0.00	0.000089	24.90
06C3078	2.36 W	✓	0.000020	55.78	0.000000	0.00	0.000104	0.79	0.000000	0.00	0.385275	0.70	0.000004	55.78	0.000000	0.00	0.000625	0.25	0.000012	21.91	0.000008	162.10	0.051621	0.23	0.000273	1.96	0.080190	4.05	0.005816	55.78	0.000000	0.00	0.000085	24.90
06C3079	3.18 W	✓	0.000009	146.98	0.000000	0.00	0.000068	0.73	0.000000	0.00	0.252450	0.63	0.000002	146.98	0.000000	0.00	0.000422	0.24	0.000008	21.91	0.000016	91.51	0.034845	0.22	0.000179	1.93	0.053959	7.05	0.002585	146.98	0.000000	0.00	0.000057	24.90
06C3081	4.04 W	✓	0.000016	68.34	0.000000	0.00	0.000043	0.77	0.000000	0.00	0.158421	0.67	0.000003	68.34	0.000000	0.00	0.000253	0.22	0.000005	21.91	0.000003	354.92	0.020912	0.20	0.000112	1.95	0.030111	11.07	0.004869	68.34	0.000000	0.00	0.000035	24.90
06C3083	4.83 W	✓	0.000004	269.20	0.000000	0.00	0.000029	0.88	0.000000	0.00	0.109527	0.80	0.000001	269.20	0.000000	0.00	0.000173	0.33	0.000004	21.91	0.000009	133.90	0.014326	0.32	0.000078	2.00	0.024490	11.97	0.001087	269.20	0.000000	0.00	0.000024	24.90
		Σ	0.000199	19.11	0.000000	0.00	0.000659	0.28	0.000000	0.00	2.449758	0.25	0.000037	19.11	0.000000	0.00	0.004131	0.09	0.000078	7.77	0.000045	97.29	0.341130	0.09	0.001737	0.69	0.520060	2.16	0.058755	19.11	0.000000	0.00	0.000563	8.82
		Σ							0.000858	4.43	2.449758	0.25									0.004292	1.05			0.342867	0.08							0.579378	2.74

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)
06C3069	0.06 W		3.535501	1.81922	0.009788	0.00013	5.157458	0.09074	6.148649	0.13019	0.007189	0.00612	86.430	5.52919223	1.00061106	9.908E-22
06C3070	0.35 W	✓	1.620142	0.11300	0.048089	0.00018	1.670551	0.00762	6.590375	0.04445	0.001963	0.00038	86.451	5.53146796	1.00061121	4.871E-21
06C3072	0.53 W	✓	1.477737	0.13515	0.065847	0.00018	1.950042	0.00683	6.762562	0.04833	0.003436	0.00045	86.493	5.53609817	1.00061151	6.669E-21
06C3073	0.77 W	✓	1.503850	0.08503	0.074146	0.00019	1.645981	0.00552	7.109579	0.04563	0.002414	0.00029	86.515	5.53845271	1.00061166	7.511E-21
06C3075	1.12 W	✓	1.466916	0.06346	0.091327	0.00019	1.606398	0.00552	6.990701	0.04960	0.002372	0.00021	86.558	5.54316480	1.00061197	9.252E-21
06C3076	1.59 W	✓	1.450251	0.06266	0.086510	0.00018	1.603390	0.00497	7.323482	0.06187	0.002508	0.00021	86.580	5.54559841	1.00061212	8.764E-21
06C3078	2.36 W	✓	1.553442	0.06305	0.086006	0.00018	1.658972	0.00518	7.424261	0.05497	0.002376	0.00021	86.622	5.55024045	1.00061242	8.712E-21
06C3079	3.18 W	✓	1.548521	0.10921	0.056544	0.00018	1.616054	0.00615	7.207839	0.04794	0.002189	0.00037	86.644	5.55260100	1.00061257	5.728E-21
06C3081	4.04 W	✓	1.439934	0.15936	0.034981	0.00017	1.665481	0.00868	7.535236	0.05266	0.002811	0.00054	86.685	5.55717267	1.00061287	3.544E-21
06C3083	4.83 W	✓	1.709494	0.20470	0.025577	0.00018	1.777388	0.01342	7.604096	0.06533	0.002301	0.00069	86.728	5.56182440	1.00061317	2.591E-21

Procedure Blanks		36Ar	1σ	37Ar	1σ	38Ar	1σ	39Ar	1σ	40Ar	1σ
06C3069	0.06 W	0.000023	0.000009	0.000065	0.000032	0.000002	0.000008	0.000083	0.000015	0.004083	0.000129
06C3070	0.35 W	0.000028	0.000008	0.000022	0.000008	0.000000	0.000008	0.000052	0.000006	0.004092	0.000160
06C3072	0.53 W	0.000022	0.000008	0.000028	0.000008	0.000001	0.000008	0.000050	0.000006	0.003995	0.000160
06C3073	0.77 W	0.000020	0.000008	0.000031	0.000008	0.000001	0.000008	0.000049	0.000006	0.003945	0.000160
06C3075	1.12 W	0.000017	0.000008	0.000036	0.000008	0.000002	0.000008	0.000046	0.000006	0.003843	0.000160
06C3076	1.59 W	0.000016	0.000008	0.000039	0.000008	0.000003	0.000008	0.000044	0.000006	0.003789	0.000160
06C3078	2.36 W	0.000017	0.000008	0.000045	0.000008	0.000003	0.000008	0.000040	0.000006	0.003685	0.000160
06C3079	3.18 W	0.000018	0.000008	0.000048	0.000008	0.000004	0.000008	0.000038	0.000006	0.003631	0.000160
06C3081	4.04 W	0.000022	0.000008	0.000053	0.000008	0.000004	0.000008	0.000033	0.000006	0.003525	0.000160
06C3083	4.83 W	0.000029	0.000008	0.000059	0.000008	0.000005	0.000008	0.000027	0.000006	0.003415	0.000160

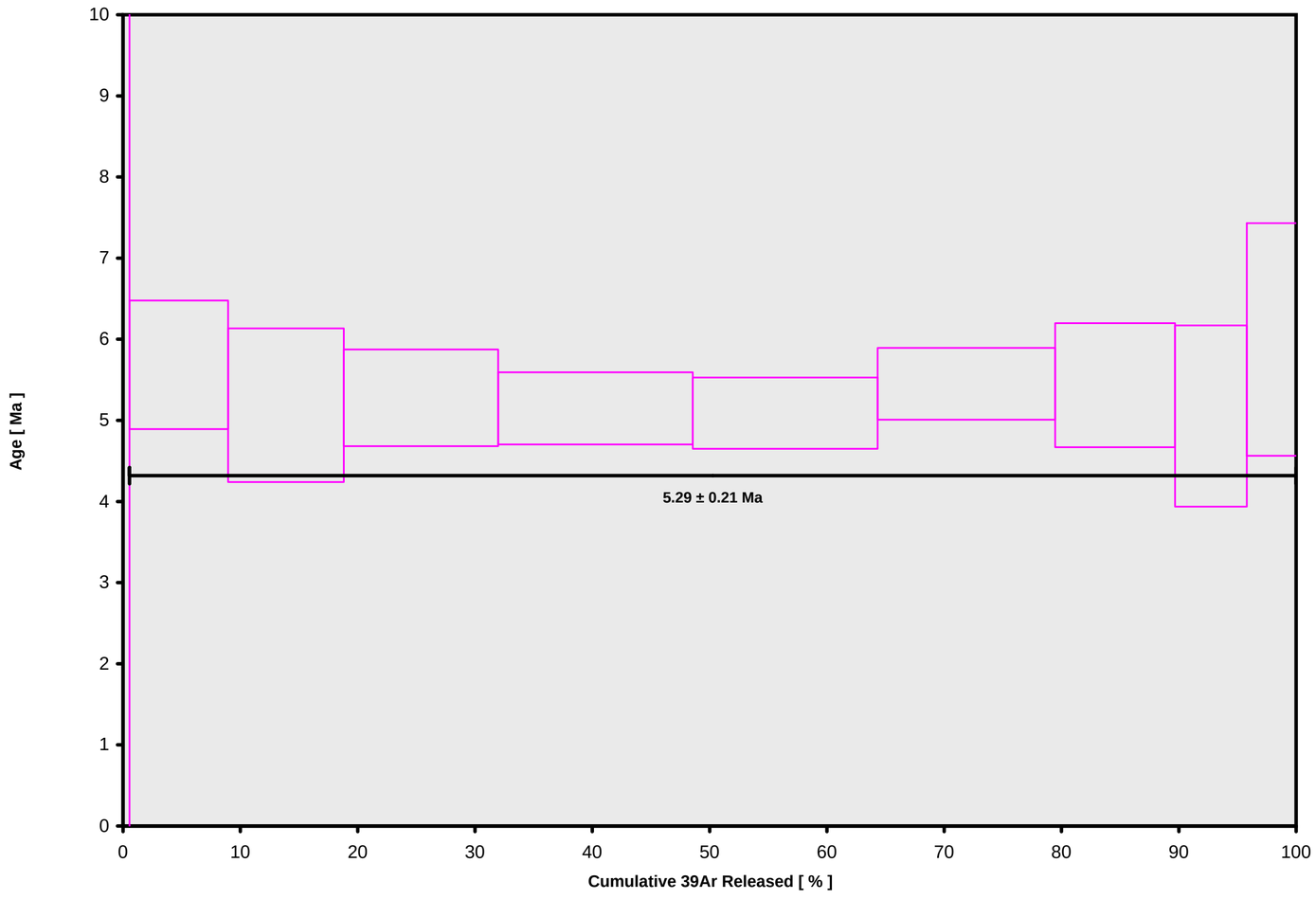
Intercept Values		36Ar	1σ	r2		37Ar	1σ	r2		38Ar	1σ	r2		39Ar	1σ	r2		40Ar	1σ	r2	
06C3069	0.06 W	0.000036	0.000008	0.4452	LIN #	0.002163	0.000018	0.7538	EXP #	0.000034	0.000011	0.0050	LIN #	0.001953	0.000014	0.9959	EXP #	0.013637	0.000033	0.9997	EXP #
06C3070	0.35 W	0.000084	0.000007	0.4548	LIN #	0.034152	0.000104	0.9840	EXP # 4	0.000357	0.000007	0.0482	LIN #	0.028465	0.000062	0.9467	EXP # 5	0.051340	0.000073	0.9984	EXP #
06C3072	0.53 W	0.000137	0.000013	0.0714	LIN #	0.041064	0.000173	0.9310	EXP #	0.000425	0.000011	0.1777	LIN #	0.033372	0.000048	0.9848	EXP #	0.068702	0.000085	0.9938	LIN #
06C3073	0.77 W	0.000128	0.000010	0.2559	LIN #	0.057574	0.000162	0.9796	EXP #	0.000566	0.000014	0.1462	LIN #	0.044514	0.000062	0.9934	LIN # 1 5 6	0.076836	0.000106	0.9882	EXP # 8
06C3075	1.12 W	0.000151	0.000009	0.0039	LIN #	0.071380	0.000269	0.9556	LIN # 7	0.000716	0.000011	0.2719	LIN #	0.056160	0.000123	0.9808	EXP # 5	0.093634	0.000105	0.9780	LIN #
06C3076	1.59 W	0.000151	0.000008	0.0006	LIN #	0.070939	0.000434	0.9230	EXP #	0.000676	0.000012	0.3859	LIN #	0.053298	0.000086	0.9865	EXP #	0.088842	0.000085	0.9903	LIN # 8
06C3078	2.36 W	0.000140	0.000007	0.2087	LIN #	0.069053	0.000314	0.9607	EXP #	0.000630	0.000009	0.0229	LIN #	0.051213	0.000086	0.9866	LIN # 11	0.088249	0.000079	0.9848	LIN # 12
06C3079	3.18 W	0.000095	0.000010	0.1826	LIN # 1	0.045241	0.000148	0.9670	EXP # 1	0.000415	0.000011	0.1292	LIN #	0.034572	0.000051	0.9878	LIN #	0.059202	0.000072	0.9953	LIN #
06C3081	4.04 W	0.000081	0.000008	0.0434	LIN #	0.028387	0.000114	0.9594	EXP #	0.000266	0.000008	0.0145	LIN #	0.020760	0.000023	0.9889	EXP # 8	0.037877	0.000054	0.9980	LIN #
06C3083	4.83 W	0.000062	0.000006	0.5424	LIN #	0.019639	0.000116	0.9401	EXP # 4	0.000190	0.000009	0.0073	LIN #	0.014232	0.000038	0.8458	LIN # 2	0.028528	0.000071	0.9968	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
06C3069	0.06 W	SAV-4 2F11-06	Plagioclase 210-300µm	Savai'i Island, Samoa	Anthony Koppers	0.06	28.03	0.01	0.0019435	0.29	1.00378	0.16	1.0174	1.012E-19	01	SEP	2006	01	22	001	OSU2F06	Samoa	06C3069	01	FCT-3
06C3070	0.35 W	SAV-4 2F11-06	Plagioclase 210-300µm	Savai'i Island, Samoa	Anthony Koppers	0.35	28.03	0.01	0.0019435	0.29	1.00378	0.16	1.0173	1.012E-19	01	SEP	2006	01	52	001	OSU2F06	Samoa	06C3069	01	FCT-3
06C3072	0.53 W	SAV-4 2F11-06	Plagioclase 210-300µm	Savai'i Island, Samoa	Anthony Koppers	0.53	28.03	0.01	0.0019435	0.29	1.00378	0.16	1.0174	1.012E-19	01	SEP	2006	02	53	001	OSU2F06	Samoa	06C3069	01	FCT-3
06C3073	0.77 W	SAV-4 2F11-06	Plagioclase 210-300µm	Savai'i Island, Samoa	Anthony Koppers	0.77	28.03	0.01	0.0019435	0.29	1.00378	0.16	1.0173	1.012E-19	01	SEP	2006	03	24	001	OSU2F06	Samoa	06C3069	01	FCT-3
06C3075	1.12 W	SAV-4 2F11-06	Plagioclase 210-300µm	Savai'i Island, Samoa	Anthony Koppers	1.12	28.03	0.01	0.0019435	0.29	1.00378	0.16	1.0174	1.012E-19	01	SEP	2006	04	26	001	OSU2F06	Samoa	06C3069	01	FCT-3
06C3076	1.59 W	SAV-4 2F11-06	Plagioclase 210-300µm	Savai'i Island, Samoa	Anthony Koppers	1.59	28.03	0.01	0.0019435	0.29	1.00378	0.16	1.0174	1.012E-19	01	SEP	2006	04	58	001	OSU2F06	Samoa	06C3069	01	FCT-3
06C3078	2.36 W	SAV-4 2F11-06	Plagioclase 210-300µm	Savai'i Island, Samoa	Jamie Russell	2.36	28.03	0.01	0.0019435	0.29	1.00378	0.16	1.0173	1.012E-19	01	SEP	2006	05	59	001	OSU2F06	Samoa	06C3069	01	FCT-3
06C3079	3.18 W	SAV-4 2F11-06	Plagioclase 210-300µm	Savai'i Island, Samoa	Jamie Russell	3.18	28.03	0.01	0.0019435	0.29	1.00378	0.16	1.0174	1.012E-19	01	SEP	2006	06	30	001	OSU2F06	Samoa	06C3069	01	FCT-3
06C3081	4.04 W	SAV-4 2F11-06	Plagioclase 210-300µm	Savai'i Island, Samoa	Jamie Russell	4.04	28.03	0.01	0.0019435	0.29	1.00378	0.16	1.0175	1.012E-19	01	SEP	2006	07	30	001	OSU2F06	Samoa	06C3069	01	FCT-3
06C3083	4.83 W	SAV-4 2F11-06	Plagioclase 210-300µm	Savai'i Island, Samoa	Jamie Russell	4.83	28.03	0.01	0.0019435	0.29	1.00378	0.16	1.0171	1.012E-19	01	SEP	2006	08	31	001	OSU2F06	Samoa	06C3069	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
06C3069	0.06 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
06C3070	0.35 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
06C3072	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
06C3073	0.77 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
06C3075	1.12 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
06C3076	1.59 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
06C3078	2.36 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
06C3079	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
06C3081	4.04 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
06C3083	4.83 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

06C3069.AGE >>> SAV-4 2F11-06 >>> SAMOA PROJECT



Ar-Ages in Ma

WEIGHTED PLATEAU
5.29 ± 0.21
TOTAL FUSION
5.35 ± 0.23
NORMAL ISOCHRON
5.91 ± 0.20
INVERSE ISOCHRON
5.15 ± 0.50

MSWD (PROBABILITY)
0.51 (85%)

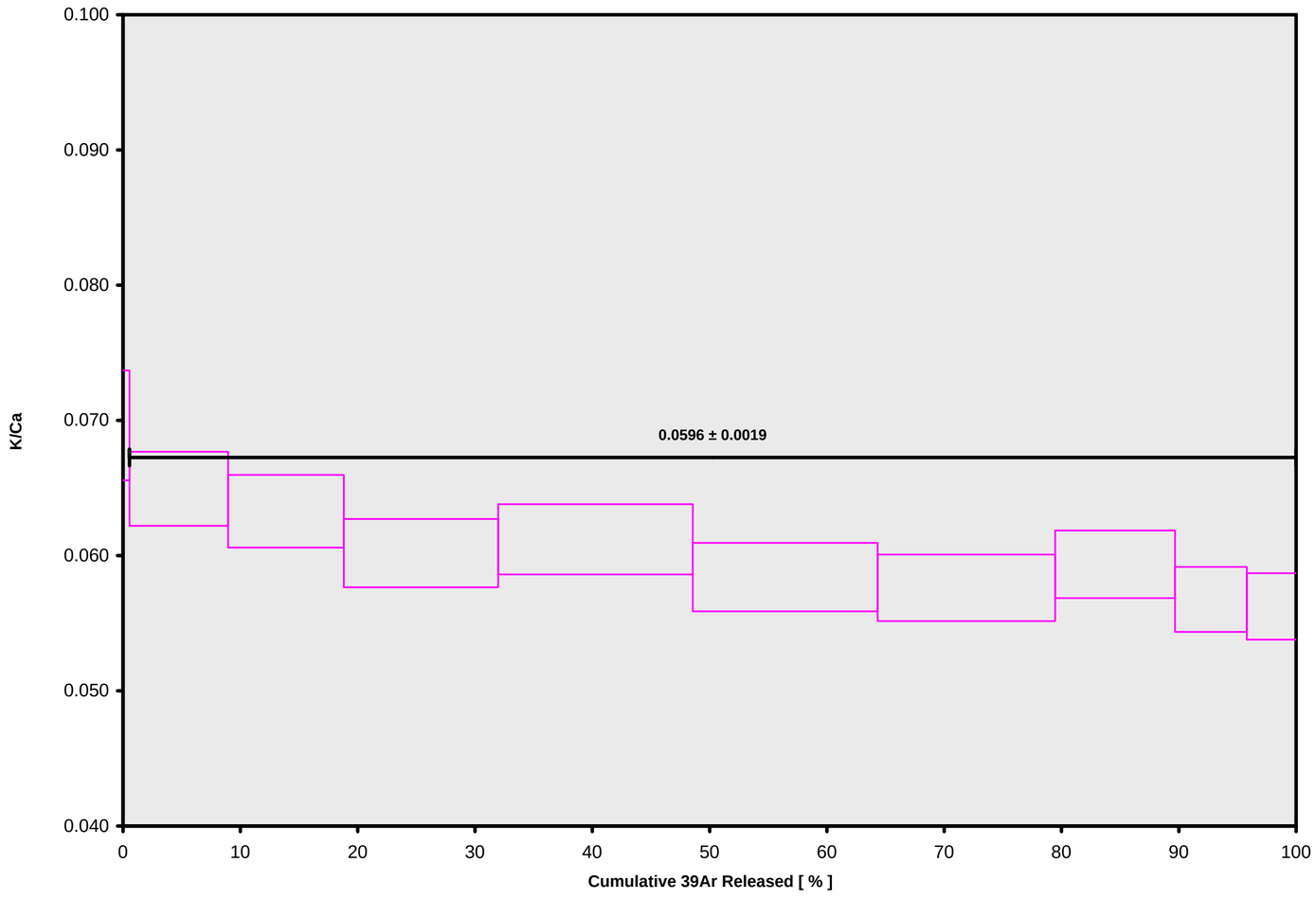
Sample Info

Plagioclase 210-300µm
Savai'i Island, Samoa
Anthony Koppers

IRR = OSU2F06
J = 0.00194350 ± 0.00000564

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

06C3069.AGE >>> SAV-4 2F11-06 >>> SAMOA PROJECT



Ar-Ages in Ma

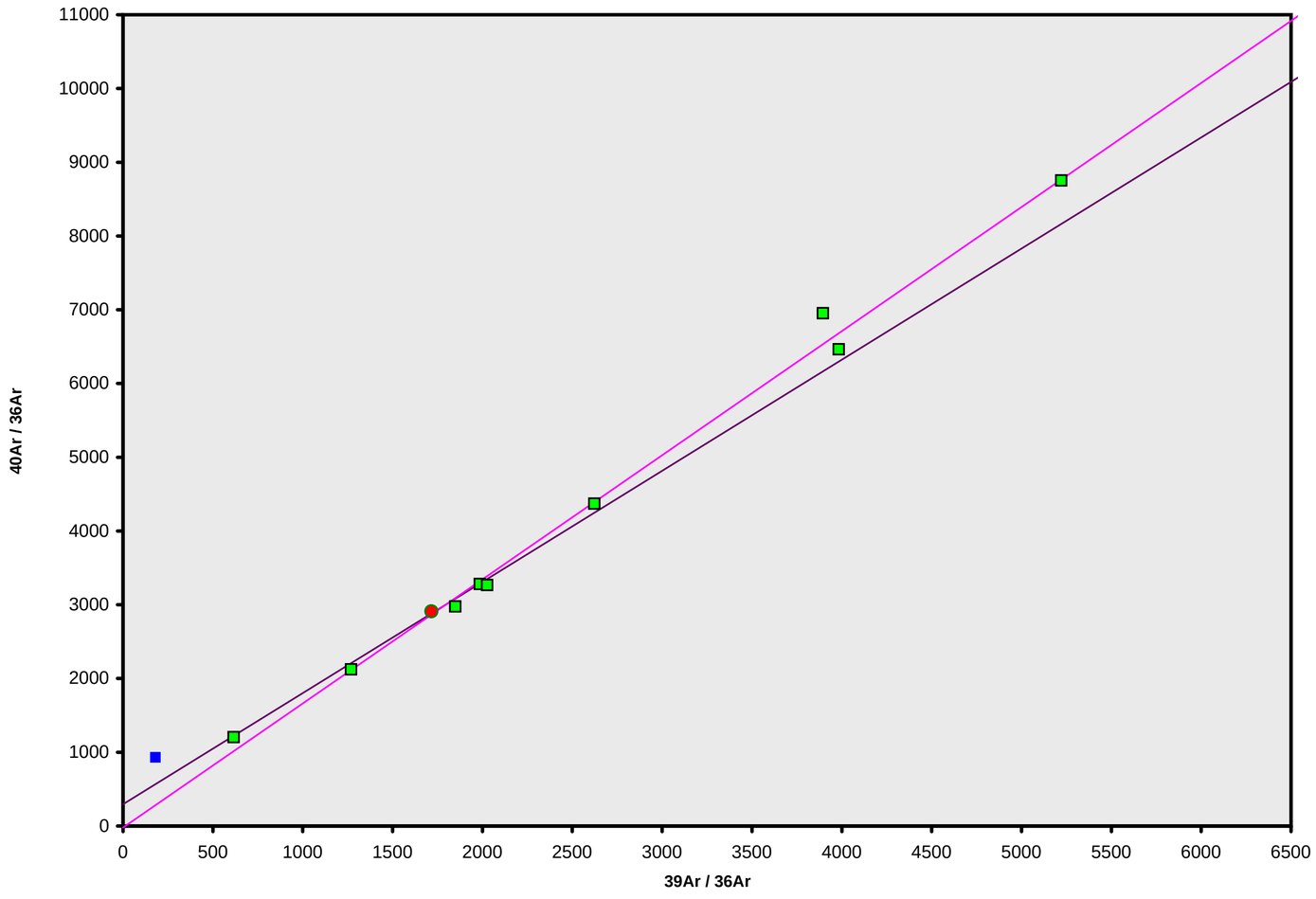
WEIGHTED PLATEAU
5.29 ± 0.21
TOTAL FUSION
5.35 ± 0.23
NORMAL ISOCHRON
5.91 ± 0.20
INVERSE ISOCHRON
5.15 ± 0.50

Sample Info

Plagioclase 210-300µm
Savai'i Island, Samoa
Anthony Koppers

IRR = OSU2F06
J = 0.00194350 ± 0.00000564

06C3069.AGE >>> SAV-4 2F11-06 >>> SAMOA PROJECT



Ar-Ages in Ma

WEIGHTED PLATEAU
5.29 ± 0.21
TOTAL FUSION
5.35 ± 0.23
NORMAL ISOCHRON
5.91 ± 0.20
INVERSE ISOCHRON
5.15 ± 0.50

MSWD (PROBABILITY)
3.83 (0%)

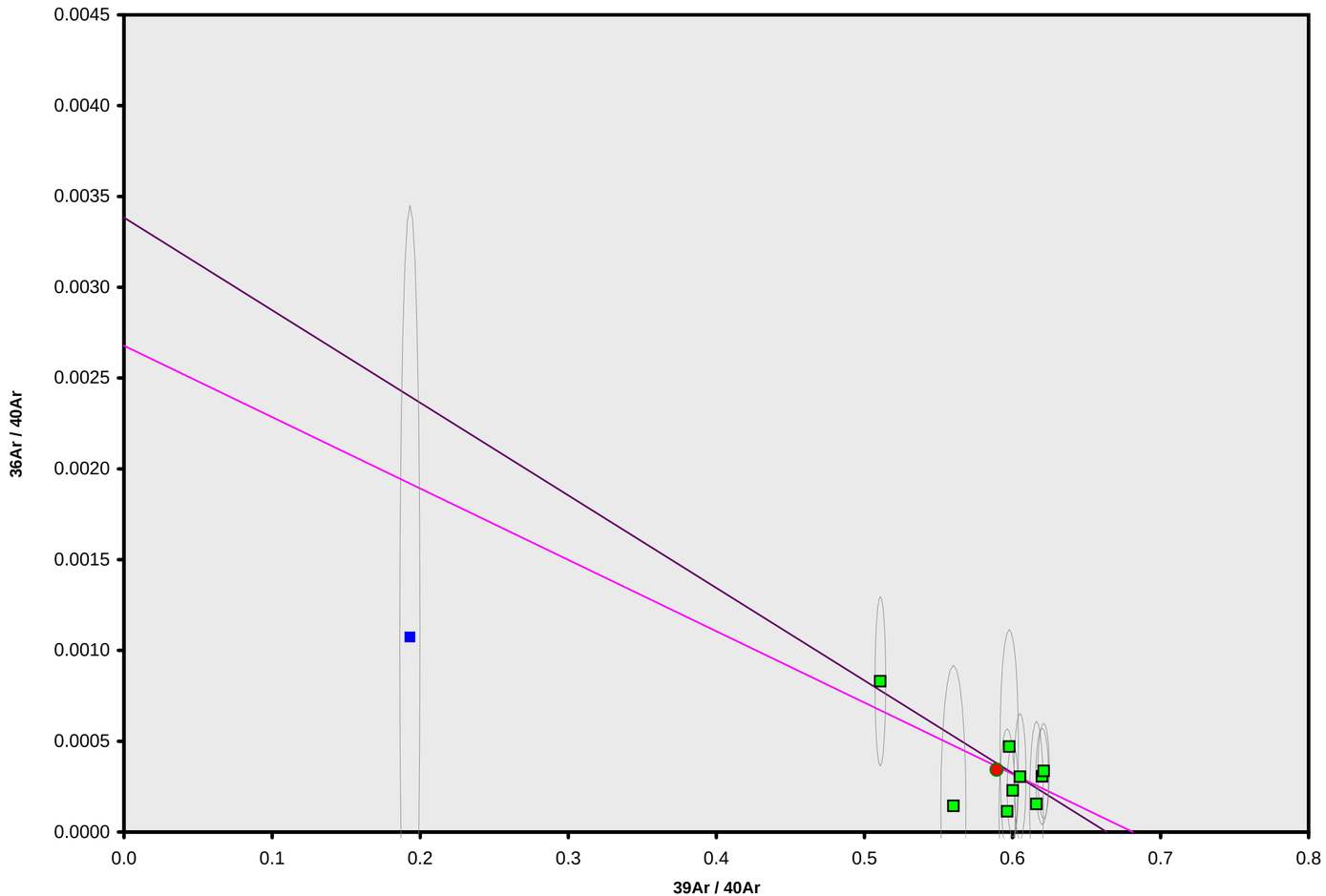
40AR/36AR INTERCEPT
-22.2 ± 102.8 (NEG)

Sample Info

Plagioclase 210-300µm
Savai'i Island, Samoa
Anthony Koppers

IRR = OSU2F06
J = 0.00194350 ± 0.00000564

06C3069.AGE >>> SAV-4 2F11-06 >>> SAMOA PROJECT



Ar-Ages in Ma

WEIGHTED PLATEAU
5.29 ± 0.21
TOTAL FUSION
5.35 ± 0.23
NORMAL ISOCHRON
5.91 ± 0.20
INVERSE ISOCHRON
5.15 ± 0.50

MSWD (PROBABILITY)
0.55 (80%)

SPREADING FACTOR
16.2%

40AR/36AR INTERCEPT
373.5 ± 368.6

Sample Info

Plagioclase 210-300µm
Savai'i Island, Samoa
Anthony Koppers

IRR = OSU2F06
J = 0.00194350 ± 0.00000564