Incremental Heating			36Ar(a)	37Ar(ca)	38Ar(cl)	39Ar(k)	40Ar(r)	Age ± 2σ (Ma)	40Ar(r) (%)	39Ar(k) (%)	K/Ca ± 2σ
06C3618	0.18 W		0.000157	0.003362	0.000000	0.096190	0.012084	0.39 ± 0.23	20.61	4.58	12.3 ± 0.6
06C3619	0.32 W	✓	0.000077	0.004481	0.000007	0.147006	0.038418	0.82 ± 0.23	62.63	7.00	14.1 ± 0.6
06C3621	0.47 W	✓	0.000104	0.006590	0.000000	0.213944	0.053186	0.78 ± 0.18	63.22	10.19	14.0 ± 0.6
06C3622	0.65 W	✓	0.000112	0.007230	0.000000	0.238054	0.060201	0.79 ± 0.14	64.19	11.33	14.2 ± 0.6
06C3624	0.85 W	✓	0.000104	0.006148	0.000002	0.243313	0.064102	0.82 ± 0.15	67.24	11.59	17.0 ± 0.7
06C3625	1.03 W	✓	0.000066	0.004591	0.000000	0.206566	0.058914	0.89 ± 0.17	74.72	9.84	19.3 ± 0.8
06C3627	1.33 W	✓	0.000081	0.004969	0.000000	0.235687	0.065182	0.86 ± 0.15	72.89	11.22	20.4 ± 0.9
06C3628	1.65 W	✓	0.000052	0.003958	0.000000	0.190551	0.054550	0.89 ± 0.18	77.69	9.07	20.7 ± 0.9
06C3630	2.24 W	✓	0.000064	0.004503	0.000007	0.193829	0.052401	0.84 ± 0.18	73.18	9.23	18.5 ± 0.8
06C3631	3.24 W	✓	0.000074	0.003852	0.000000	0.206333	0.055519	0.84 ± 0.17	71.30	9.82	23.0 ± 1.0
06C3633	4.27 W	✓	0.000035	0.001569	0.000000	0.098096	0.024914	0.79 ± 0.35	70.12	4.67	26.9 ± 1.3
06C3634	4.80 W		0.000020	0.000389	0.000000	0.030647	0.005656	0.58 ± 1.13	48.61	1.46	33.8 ± 3.5
		Σ	0.000947	0.051644	0.000015	2.100215	0.545129				

Information on Analysis

Sample = TUL-1 3E3-06
Material = K-Feldspar 105-300µm
Location = Tulaga, Samoa
Analyst = Jamie Russell
Project = SAMOA
Mass Discrimination Law = LIN
Irradiation = OSU3E06
J = 0.00172500 ± 0.00000431
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	0.2675 ± 0.0176	0.83 ± 0.06	0.22	93.96	17.1 ± 2.3
Overestimate Errors	± 6.58%	± 6.60%	99%	10	
	Minimal External Error	± 0.06	1.47	2σ Confidence Limit	
	Analytical Error	± 0.05	1.0000	Error Magnification	
Total Fusion Age	0.2596 ± 0.0180	0.81 ± 0.06		12	17.5 ± 0.7
	± 6.95%	± 6.96%			
	Minimal External Error	± 0.06			
	Analytical Error	± 0.06			

Normal Isochron			39(k)/36(a) ± 2σ	40(a+r)/36(a) ± 2σ	r.i.
06C3618	0.18 W		612.9 ± 91.8	372.5 ± 55.8	0.9986
06C3619	0.32 W	✓	1915.2 ± 926.8	796.0 ± 385.2	0.9999
06C3621	0.47 W	✓	2067.0 ± 815.2	809.4 ± 319.2	0.9999
06C3622	0.65 W	✓	2119.3 ± 698.0	831.5 ± 273.8	0.9999
06C3624	0.85 W	✓	2332.2 ± 865.1	909.9 ± 337.5	0.9998
06C3625	1.03 W	✓	3116.4 ± 1817.5	1184.3 ± 690.7	0.9999
06C3627	1.33 W	✓	2920.2 ± 1365.4	1103.1 ± 515.8	0.9999
06C3628	1.65 W	✓	3669.0 ± 2679.7	1345.8 ± 982.9	1.0000
06C3630	2.24 W	✓	3032.7 ± 1764.6	1115.4 ± 649.0	0.9999
06C3631	3.24 W	✓	2770.8 ± 1374.6	1041.0 ± 516.5	0.9999
06C3633	4.27 W	✓	2772.7 ± 2942.1	999.7 ± 1060.8	1.0000
06C3634	4.80 W		1527.3 ± 2866.5	577.4 ± 1083.7	0.9999

Results	40(a)/36(a) ± 2σ	40(r)/39(k) ± 2σ	Age ± 2σ (Ma)	MSWD
Normal Isochron	196.4266 ± 164.5872	0.3042 ± 0.0665	0.95 ± 0.21	0.16
No Convergence	± 83.79%	± 21.86%	± 21.86%	100%
			Minimal External Error ± 0.21	
			Analytical Error ± 0.21	

Statistics				
2σ Confidence Limit	2.00	Convergence	0.0000283848
Error Magnification	1.0000	Number of Iterations	100
Number of Data Points	10	Calculated Line	Weighted York-2

Inverse Isochron			39(k)/40(a+r) ± 2σ	36(a)/40(a+r) ± 2σ	r.i.
06C3618	0.18 W		1.645345 ± 0.012858	0.002685 ± 0.000402	0.0302
06C3619	0.32 W	✓	2.406009 ± 0.017005	0.001256 ± 0.000608	0.0095
06C3621	0.47 W	✓	2.553888 ± 0.015647	0.001236 ± 0.000487	0.0070
06C3622	0.65 W	✓	2.548928 ± 0.014532	0.001203 ± 0.000396	0.0094
06C3624	0.85 W	✓	2.563052 ± 0.018011	0.001099 ± 0.000408	0.0080
06C3625	1.03 W	✓	2.631379 ± 0.017753	0.000844 ± 0.000492	0.0043
06C3627	1.33 W	✓	2.647217 ± 0.013318	0.000907 ± 0.000424	0.0051
06C3628	1.65 W	✓	2.726183 ± 0.015295	0.000743 ± 0.000543	0.0046
06C3630	2.24 W	✓	2.718974 ± 0.017560	0.000897 ± 0.000522	0.0053
06C3631	3.24 W	✓	2.661524 ± 0.019758	0.000961 ± 0.000477	0.0087
06C3633	4.27 W	✓	2.773524 ± 0.024952	0.001000 ± 0.001061	0.0062
06C3634	4.80 W		2.645195 ± 0.059983	0.001732 ± 0.003251	0.0117

Results	40(a)/36(a) ± 2σ	40(r)/39(k) ± 2σ	Age ± 2σ (Ma)	MSWD
Inverse Isochron	188.0188 ± 169.5724	0.3094 ± 0.0569	0.96 ± 0.18	0.16
Overestimate Errors	± 90.19%	± 18.39%	± 18.40%	100%
		Minimal External Error	± 0.18	
		Analytical Error	± 0.18	

Statistics				
2σ Confidence Limit	2.00	Convergence	0.0000069228
Error Magnification	1.0000	Number of Iterations	3
Number of Data Points	10	Calculated Line	Weighted York-2
Spreading Factor	11.4%		

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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
06C3618	0.18 W		0.0001579	7.440	0.0033620	1.123	0.0011813	1.461	0.0961922	0.254	0.0586205	0.289	0.39 ± 0.23	20.61	4.58	12.3 ± 0.6
06C3619	0.32 W	✓	0.0000780	23.820	0.0044815	0.803	0.0018013	1.083	0.1470091	0.210	0.0613421	0.266	0.82 ± 0.23	62.63	7.00	14.1 ± 0.6
06C3621	0.47 W	✓	0.0001053	19.385	0.0065904	0.716	0.0025953	0.737	0.2139485	0.227	0.0841248	0.177	0.78 ± 0.18	63.22	10.19	14.0 ± 0.6
06C3622	0.65 W	✓	0.0001143	16.185	0.0072300	0.621	0.0028730	0.759	0.2380586	0.193	0.0937864	0.181	0.79 ± 0.14	64.19	11.33	14.2 ± 0.6
06C3624	0.85 W	✓	0.0001060	18.256	0.0061480	0.680	0.0029684	0.720	0.2433173	0.267	0.0953324	0.202	0.82 ± 0.15	67.24	11.59	17.0 ± 0.7
06C3625	1.03 W	✓	0.0000675	28.626	0.0045910	0.703	0.0024704	0.775	0.2065689	0.268	0.0788418	0.173	0.89 ± 0.17	74.72	9.84	19.3 ± 0.8
06C3627	1.33 W	✓	0.0000820	22.998	0.0049692	0.744	0.0028430	0.641	0.2356910	0.183	0.0894210	0.134	0.86 ± 0.15	72.89	11.22	20.4 ± 0.9
06C3628	1.65 W	✓	0.0000530	35.783	0.0039585	0.959	0.0022952	0.777	0.1905542	0.179	0.0702112	0.184	0.89 ± 0.18	77.69	9.07	20.7 ± 0.9
06C3630	2.24 W	✓	0.0000651	28.550	0.0045029	0.740	0.0023661	0.828	0.1938321	0.233	0.0716073	0.192	0.84 ± 0.18	73.18	9.23	18.5 ± 0.8
06C3631	3.24 W	✓	0.0000755	24.464	0.0038523	0.992	0.0024818	0.785	0.2063357	0.239	0.0778648	0.261	0.84 ± 0.17	71.30	9.82	23.0 ± 1.0
06C3633	4.27 W	✓	0.0000358	52.428	0.0015691	1.237	0.0011640	1.947	0.0980974	0.236	0.0355307	0.364	0.79 ± 0.35	70.12	4.67	26.9 ± 1.3
06C3634	4.80 W		0.0000202	93.352	0.0003894	4.810	0.0003112	4.637	0.0306468	0.214	0.0116363	1.103	0.58 ± 1.13	48.61	1.46	33.8 ± 3.5
		Σ	0.0009605	6.665	0.0516442	0.244	0.0253510	0.264	2.1002516	0.070	0.8283192	0.065				

Information on Analysis and Constants Used in Calculations

Sample = TUL-1 3E3-06
Material = K-Feldspar 105-300µm
Location = Tulaga, Samoa
Analyst = Jamie Russell
Project = SAMOA
Mass Discrimination Law = LIN
Irradiation = OSU3E06
J = 0.00172500 ± 0.00000431
FCT-3 = 28.030 ± 0.003 Ma
IGSN = KOP000037
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 = Phonolite
Lat-Lon = 14°39.1'S - 170°01.4'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
Age Plateau	0.2675 ± 0.0176	0.83 ± 0.06	0.22	93.96	17.1 ± 2.3
Overestimate Errors	± 6.58%	± 6.60%	99%	10	
	Minimal External Error ± 0.06		1.47	2σ Confidence Limit	
	Analytical Error ± 0.05		1.0000	Error Magnification	
Total Fusion Age	0.2596 ± 0.0180	0.81 ± 0.06		12	17.5 ± 0.7
	± 6.95%	± 6.96%			
	Minimal External Error ± 0.06				
	Analytical Error ± 0.06				
Normal Isochron	0.3042 ± 0.0665	0.95 ± 0.21	0.16	93.96	
No Convergence	± 21.86%	± 21.86%	100%	10	
	Minimal External Error ± 0.21		2.00	2σ Confidence Limit	
	Analytical Error ± 0.21		1.0000	Error Magnification	
Inverse Isochron	0.3094 ± 0.0569	0.96 ± 0.18	0.16	93.96	
Overestimate Errors	± 18.39%	± 18.40%	100%	10	
	Minimal External Error ± 0.18		2.00	2σ Confidence Limit	
	Analytical Error ± 0.18		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
06C3618	0.18 W		0.000157	7.48	0.000000	0.00	0.000001	1.18	0.000000	0.00	0.003362	1.12	0.000029	7.48	0.000000	0.00	0.001165	0.27	0.000000	21.93	0.000000	0.00	0.096190	0.25	0.000002	2.15	0.012084	28.76	0.046378	7.48	0.000000	0.00	0.000159	24.90
06C3619	0.32 W	✓	0.000077	24.19	0.000000	0.00	0.000001	0.88	0.000000	309.34	0.004481	0.80	0.000014	24.19	0.000000	0.00	0.001780	0.23	0.000000	21.91	0.000007	309.38	0.147006	0.21	0.000003	2.00	0.038418	14.29	0.022681	24.19	0.000000	0.00	0.000243	24.90
06C3621	0.47 W	✓	0.000104	19.72	0.000000	0.00	0.000002	0.81	0.000000	0.00	0.006590	0.72	0.000019	19.72	0.000000	0.00	0.002591	0.25	0.000000	21.91	0.000000	0.00	0.213944	0.23	0.000005	1.97	0.053186	11.34	0.030585	19.72	0.000000	0.00	0.000353	24.90
06C3622	0.65 W	✓	0.000112	16.47	0.000000	0.00	0.000002	0.72	0.000000	0.00	0.007230	0.62	0.000021	16.47	0.000000	0.00	0.002883	0.22	0.000000	21.91	0.000000	0.00	0.238054	0.19	0.000005	1.93	0.060201	9.08	0.033192	16.47	0.000000	0.00	0.000393	24.90
06C3624	0.85 W	✓	0.000104	18.55	0.000000	0.00	0.000002	0.77	0.000000	1054.25	0.006148	0.68	0.000019	18.55	0.000000	0.00	0.002947	0.28	0.000000	21.91	0.000002	1054.26	0.243313	0.27	0.000004	1.95	0.064102	8.93	0.030829	18.55	0.000000	0.00	0.000401	24.90
06C3625	1.03 W	✓	0.000066	29.16	0.000000	0.00	0.000001	0.79	0.000000	0.00	0.004591	0.70	0.000012	29.16	0.000000	0.00	0.002502	0.29	0.000000	21.91	0.000000	0.00	0.206566	0.27	0.000003	1.96	0.058914	9.70	0.019587	29.16	0.000000	0.00	0.000341	24.90
06C3627	1.33 W	✓	0.000081	23.38	0.000000	0.00	0.000001	0.83	0.000000	0.00	0.004969	0.74	0.000015	23.38	0.000000	0.00	0.002854	0.21	0.000000	21.91	0.000000	0.00	0.235687	0.18	0.000004	1.98	0.065182	8.56	0.023850	23.38	0.000000	0.00	0.000389	24.90
06C3628	1.65 W	✓	0.000052	36.52	0.000000	0.00	0.000001	1.03	0.000000	0.00	0.003958	0.96	0.000010	36.52	0.000000	0.00	0.002308	0.20	0.000000	21.92	0.000000	0.00	0.190551	0.18	0.000003	2.07	0.054550	10.28	0.015347	36.52	0.000000	0.00	0.000314	24.90
06C3630	2.24 W	✓	0.000064	29.09	0.000000	0.00	0.000001	0.83	0.000000	310.36	0.004503	0.74	0.000012	29.09	0.000000	0.00	0.002347	0.25	0.000000	21.91	0.000007	310.40	0.193829	0.23	0.000003	1.97	0.052401	10.49	0.018886	29.09	0.000000	0.00	0.000320	24.90
06C3631	3.24 W	✓	0.000074	24.80	0.000000	0.00	0.000001	1.06	0.000000	0.00	0.003852	0.99	0.000014	24.80	0.000000	0.00	0.002499	0.26	0.000000	21.92	0.000000	0.00	0.206333	0.24	0.000003	2.08	0.055519	9.84	0.022005	24.80	0.000000	0.00	0.000340	24.90
06C3633	4.27 W	✓	0.000035	53.05	0.000000	0.00	0.000000	1.29	0.000000	0.00	0.001569	1.24	0.000007	53.05	0.000000	0.00	0.001188	0.26	0.000000	21.93	0.000000	0.00	0.098096	0.24	0.000001	2.21	0.024914	22.27	0.010455	53.05	0.000000	0.00	0.000162	24.90
06C3634	4.80 W		0.000020	93.84	0.000000	0.00	0.000000	4.82	0.000000	0.00	0.000389	4.81	0.000004	93.84	0.000000	0.00	0.000371	0.24	0.000000	22.42	0.000000	0.00	0.030647	0.21	0.000000	5.15	0.005656	98.39	0.005929	93.84	0.000000	0.00	0.000051	24.90
		Σ	0.000947	6.76	0.000000	0.00	0.000014	0.27	0.000000	240.70	0.051644	0.24	0.000177	6.76	0.000000	0.00	0.025434	0.08	0.000002	6.90	0.000015	240.74	2.100215	0.07	0.000037	0.63	0.545129	3.47	0.279725	6.76	0.000000	0.00	0.003465	7.66
		Σ							0.000961	6.67	0.051644	0.24									0.025628	0.17			2.100252	0.07							0.828319	3.23

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)
06C3618	0.18 W		0.125623	0.03613	0.058462	0.00017	0.609410	0.00234	0.034951	0.00040	0.001641	0.00012	32.667	1.91116633	1.00023141	5.932E-21
06C3619	0.32 W	✓	0.261337	0.03735	0.061099	0.00017	0.417267	0.00141	0.030484	0.00025	0.000530	0.00013	32.688	1.91195294	1.00023156	6.208E-21
06C3621	0.47 W	✓	0.248600	0.02821	0.083772	0.00017	0.393201	0.00113	0.030804	0.00023	0.000492	0.00010	32.729	1.91350088	1.00023185	8.513E-21
06C3622	0.65 W	✓	0.252890	0.02298	0.093394	0.00020	0.393963	0.00104	0.030371	0.00020	0.000480	0.00008	32.749	1.91426219	1.00023199	9.491E-21
06C3624	0.85 W	✓	0.263456	0.02353	0.094931	0.00022	0.391803	0.00131	0.025268	0.00018	0.000436	0.00008	32.790	1.91581199	1.00023228	9.648E-21
06C3625	1.03 W	✓	0.285207	0.02767	0.078501	0.00016	0.381673	0.00122	0.022225	0.00017	0.000327	0.00009	32.811	1.91660051	1.00023242	7.979E-21
06C3627	1.33 W	✓	0.276563	0.02367	0.089032	0.00015	0.379400	0.00086	0.021083	0.00016	0.000348	0.00008	32.852	1.91815221	1.00023271	9.049E-21
06C3628	1.65 W	✓	0.286274	0.02943	0.069897	0.00015	0.368458	0.00095	0.020773	0.00020	0.000278	0.00010	32.872	1.91891537	1.00023286	7.105E-21
06C3630	2.24 W	✓	0.270347	0.02837	0.071288	0.00016	0.369430	0.00112	0.023231	0.00018	0.000336	0.00010	32.918	1.92065336	1.00023318	7.247E-21
06C3631	3.24 W	✓	0.269075	0.02648	0.077524	0.00022	0.377370	0.00134	0.018670	0.00019	0.000366	0.00009	32.939	1.92144387	1.00023333	7.880E-21
06C3633	4.27 W	✓	0.253977	0.05656	0.035369	0.00014	0.362198	0.00157	0.015995	0.00020	0.000365	0.00019	32.981	1.92302587	1.00023362	3.596E-21
06C3634	4.80 W		0.184569	0.18161	0.011586	0.00013	0.379691	0.00427	0.012705	0.00061	0.000658	0.00061	33.001	1.92379097	1.00023376	1.178E-21

Procedure Blanks		36Ar	1σ	37Ar	1σ	38Ar	1σ	39Ar	1σ	40Ar	1σ
06C3618	0.18 W	0.000016	0.000006	0.000022	0.000008	0.000010	0.000005	0.000005	0.000006	0.004425	0.000031
06C3619	0.32 W	0.000028	0.000018	0.000030	0.000008	0.000009	0.000013	0.000019	0.000031	0.004788	0.000119
06C3621	0.47 W	0.000019	0.000018	0.000028	0.000007	0.000009	0.000013	0.000019	0.000031	0.004378	0.000116
06C3622	0.65 W	0.000017	0.000018	0.000027	0.000007	0.000013	0.000013	0.000027	0.000030	0.004263	0.000115
06C3624	0.85 W	0.000017	0.000017	0.000027	0.000007	0.000016	0.000012	0.000032	0.000030	0.004151	0.000113
06C3625	1.03 W	0.000019	0.000017	0.000028	0.000007	0.000015	0.000012	0.000029	0.000030	0.004135	0.000113
06C3627	1.33 W	0.000023	0.000017	0.000030	0.000007	0.000011	0.000012	0.000022	0.000030	0.004133	0.000113
06C3628	1.65 W	0.000024	0.000017	0.000032	0.000007	0.000009	0.000012	0.000019	0.000030	0.004126	0.000113
06C3630	2.24 W	0.000026	0.000018	0.000037	0.000007	0.000008	0.000013	0.000020	0.000030	0.004027	0.000115
06C3631	3.24 W	0.000024	0.000018	0.000041	0.000007	0.000010	0.000013	0.000026	0.000031	0.003920	0.000116
06C3633	4.27 W	0.000016	0.000018	0.000050	0.000008	0.000022	0.000013	0.000056	0.000031	0.003533	0.000119
06C3634	4.80 W	0.000009	0.000018	0.000055	0.000008	0.000033	0.000013	0.000081	0.000032	0.003241	0.000121

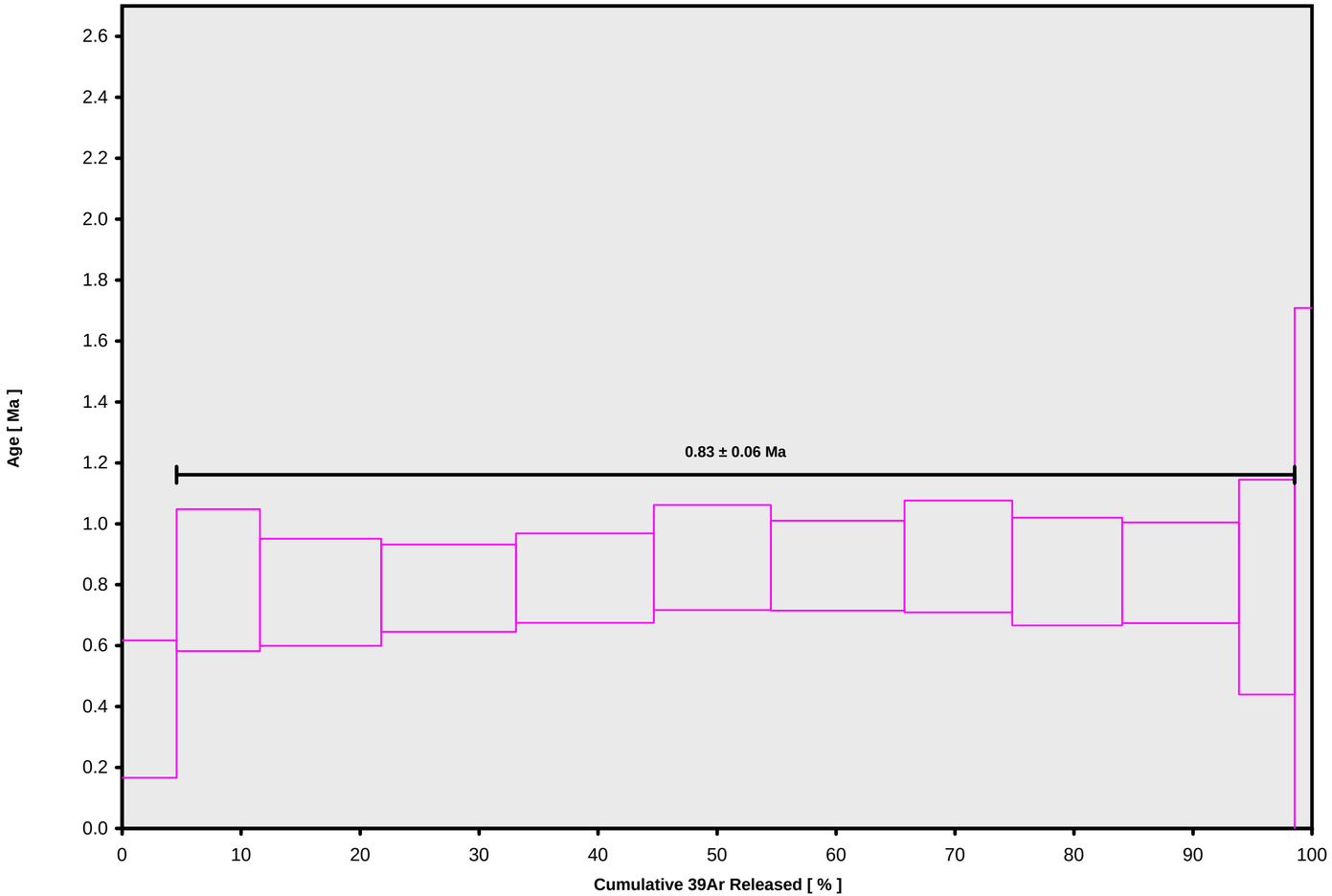
Intercept Values		36Ar	1σ	r2		37Ar	1σ	r2		38Ar	1σ	r2		39Ar	1σ	r2		40Ar	1σ	r2	
06C3618	0.18 W	0.000173	0.000010	0.9170	LIN # 1	0.001776	0.000016	0.9281	LIN #	0.001184	0.000016	0.8108	LIN #	0.095196	0.000187	0.3270	LIN #	0.062169	0.000164	0.9998	EXP #
06C3619	0.32 W	0.000106	0.000005	0.8857	LIN #	0.002366	0.000013	0.1977	LIN # 7	0.001798	0.000014	0.4527	LIN #	0.145483	0.000196	0.9910	LIN # 4	0.065204	0.000110	0.9996	EXP #
06C3621	0.47 W	0.000124	0.000011	0.5144	LIN #	0.003461	0.000017	0.8252	LIN #	0.002587	0.000012	0.8537	LIN #	0.211677	0.000339	0.9909	LIN #	0.087247	0.000092	0.9992	EXP #
06C3622	0.65 W	0.000131	0.000007	0.5257	LIN #	0.003792	0.000013	0.9220	LIN #	0.002866	0.000015	0.8655	LIN #	0.235514	0.000253	0.9959	LIN #	0.096648	0.000124	0.9946	LIN # 9
06C3624	0.85 W	0.000123	0.000009	0.4531	LIN #	0.003225	0.000013	0.9116	LIN #	0.002963	0.000015	0.9273	LIN #	0.240696	0.000513	0.9842	LIN #	0.098052	0.000154	0.9839	LIN # 2
06C3625	1.03 W	0.000086	0.000009	0.5354	LIN #	0.002415	0.000010	0.8207	LIN #	0.002468	0.000012	0.8261	LIN #	0.204366	0.000438	0.9861	LIN # 9	0.081791	0.000076	0.9959	LIN # 12
06C3627	1.33 W	0.000104	0.000008	0.5096	LIN #	0.002612	0.000013	0.8443	LIN #	0.002834	0.000010	0.9593	LIN # 6	0.233143	0.000204	0.9978	EXP # 4	0.092208	0.000040	0.9989	EXP # 3
06C3628	1.65 W	0.000077	0.000008	0.5388	LIN #	0.002087	0.000015	0.6396	LIN #	0.002288	0.000010	0.9297	LIN #	0.188477	0.000149	0.9981	EXP #	0.073260	0.000062	0.9961	LIN #
06C3630	2.24 W	0.000090	0.000007	0.2225	LIN #	0.002373	0.000011	0.8619	LIN #	0.002357	0.000013	0.9348	LIN # 4	0.191701	0.000325	0.9943	LIN # 1 7	0.074532	0.000075	0.9938	LIN #
06C3631	3.24 W	0.000100	0.000006	0.1865	LIN #	0.002038	0.000016	0.6766	LIN #	0.002474	0.000012	0.8889	LIN #	0.204052	0.000363	0.9893	LIN #	0.080584	0.000164	0.9636	LIN #
06C3633	4.27 W	0.000052	0.000006	0.1867	LIN #	0.000862	0.000005	0.1842	LIN #	0.001178	0.000018	0.5119	LIN #	0.097055	0.000165	0.9898	EXP #	0.038490	0.000050	0.9981	EXP #
06C3634	4.80 W	0.000029	0.000005	0.3360	LIN #	0.000256	0.000006	0.5865	LIN #	0.000341	0.000006	0.5691	LIN # 1 12	0.030381	0.000030	0.9944	EXP # 3 11	0.014658	0.000044	0.9990	EXP #

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
06C3618	0.18 W	TUL-1 3E3-06	K-Feldspar 105-300µm	Tulaga, Samoa	Jamie Russell	0.18	28.03	0.01	0.001725	0.25	1.00378	0.16	1.0141	1.012E-19	29	OCT	2006	06	29	001	OSU3E06	Samoa	06C3618	01	FCT-3
06C3619	0.32 W	TUL-1 3E3-06	K-Feldspar 105-300µm	Tulaga, Samoa	Jamie Russell	0.32	28.03	0.01	0.001725	0.25	1.00378	0.16	1.0142	1.012E-19	29	OCT	2006	06	59	001	OSU3E06	Samoa	06C3618	01	FCT-3
06C3621	0.47 W	TUL-1 3E3-06	K-Feldspar 105-300µm	Tulaga, Samoa	Jamie Russell	0.47	28.03	0.01	0.001725	0.25	1.00378	0.16	1.0144	1.012E-19	29	OCT	2006	07	58	001	OSU3E06	Samoa	06C3618	01	FCT-3
06C3622	0.65 W	TUL-1 3E3-06	K-Feldspar 105-300µm	Tulaga, Samoa	Jamie Russell	0.65	28.03	0.01	0.001725	0.25	1.00378	0.16	1.0145	1.012E-19	29	OCT	2006	08	27	001	OSU3E06	Samoa	06C3618	01	FCT-3
06C3624	0.85 W	TUL-1 3E3-06	K-Feldspar 105-300µm	Tulaga, Samoa	Jamie Russell	0.85	28.03	0.01	0.001725	0.25	1.00378	0.16	1.0146	1.012E-19	29	OCT	2006	09	26	001	OSU3E06	Samoa	06C3618	01	FCT-3
06C3625	1.03 W	TUL-1 3E3-06	K-Feldspar 105-300µm	Tulaga, Samoa	Jamie Russell	1.03	28.03	0.01	0.001725	0.25	1.00378	0.16	1.0145	1.012E-19	29	OCT	2006	09	56	001	OSU3E06	Samoa	06C3618	01	FCT-3
06C3627	1.33 W	TUL-1 3E3-06	K-Feldspar 105-300µm	Tulaga, Samoa	Jamie Russell	1.33	28.03	0.01	0.001725	0.25	1.00378	0.16	1.0146	1.012E-19	29	OCT	2006	10	55	001	OSU3E06	Samoa	06C3618	01	FCT-3
06C3628	1.65 W	TUL-1 3E3-06	K-Feldspar 105-300µm	Tulaga, Samoa	Jamie Russell	1.65	28.03	0.01	0.001725	0.25	1.00378	0.16	1.0147	1.012E-19	29	OCT	2006	11	24	001	OSU3E06	Samoa	06C3618	01	FCT-3
06C3630	2.24 W	TUL-1 3E3-06	K-Feldspar 105-300µm	Tulaga, Samoa	Jamie Russell	2.24	28.03	0.01	0.001725	0.25	1.00378	0.16	1.0148	1.012E-19	29	OCT	2006	12	30	001	OSU3E06	Samoa	06C3618	01	FCT-3
06C3631	3.24 W	TUL-1 3E3-06	K-Feldspar 105-300µm	Tulaga, Samoa	Jamie Russell	3.24	28.03	0.01	0.001725	0.25	1.00378	0.16	1.0149	1.012E-19	29	OCT	2006	13	00	001	OSU3E06	Samoa	06C3618	01	FCT-3
06C3633	4.27 W	TUL-1 3E3-06	K-Feldspar 105-300µm	Tulaga, Samoa	Jamie Russell	4.27	28.03	0.01	0.001725	0.25	1.00378	0.16	1.0149	1.012E-19	29	OCT	2006	14	00	001	OSU3E06	Samoa	06C3618	01	FCT-3
06C3634	4.80 W	TUL-1 3E3-06	K-Feldspar 105-300µm	Tulaga, Samoa	Jamie Russell	4.8	28.03	0.01	0.001725	0.25	1.00378	0.16	1.015	1.012E-19	29	OCT	2006	14	29	001	OSU3E06	Samoa	06C3618	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
06C3618	0.18 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
06C3619	0.32 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
06C3621	0.47 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
06C3622	0.65 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
06C3624	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
06C3625	1.03 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
06C3627	1.33 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
06C3628	1.65 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
06C3630	2.24 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
06C3631	3.24 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
06C3633	4.27 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
06C3634	4.80 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

06C3618.AGE >>> TUL-1 3E3-06 >>> SAMOA PROJECT



Ar-Ages in Ma

WEIGHTED PLATEAU
0.83 ± 0.06
TOTAL FUSION
0.81 ± 0.06
NORMAL ISOCHRON
0.95 ± 0.21
INVERSE ISOCHRON
0.96 ± 0.18

MSWD (PROBABILITY)
0.22 (99%)

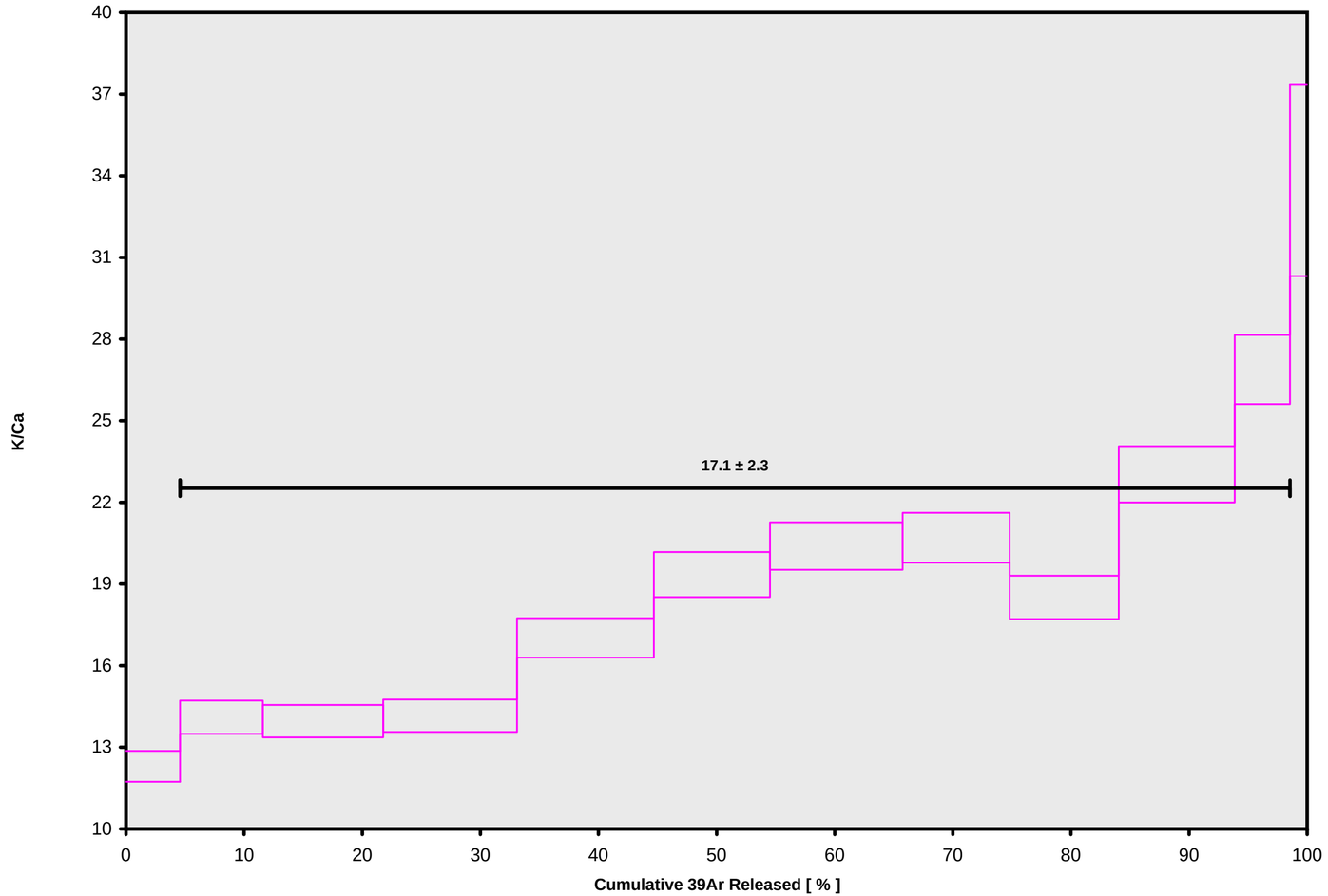
Sample Info

K-Feldspar 105-300µm
Tulaga, Samoa
Jamie Russell

IRR = OSU3E06
J = 0.00172500 ± 0.00000431

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

06C3618.AGE >>> TUL-1 3E3-06 >>> SAMOA PROJECT



Ar-Ages in Ma

WEIGHTED PLATEAU
0.83 ± 0.06
TOTAL FUSION
0.81 ± 0.06
NORMAL ISOCHRON
0.95 ± 0.21
INVERSE ISOCHRON
0.96 ± 0.18

Sample Info

K-Feldspar 105-300µm
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40Ar/39Ar Geochronology Laboratory
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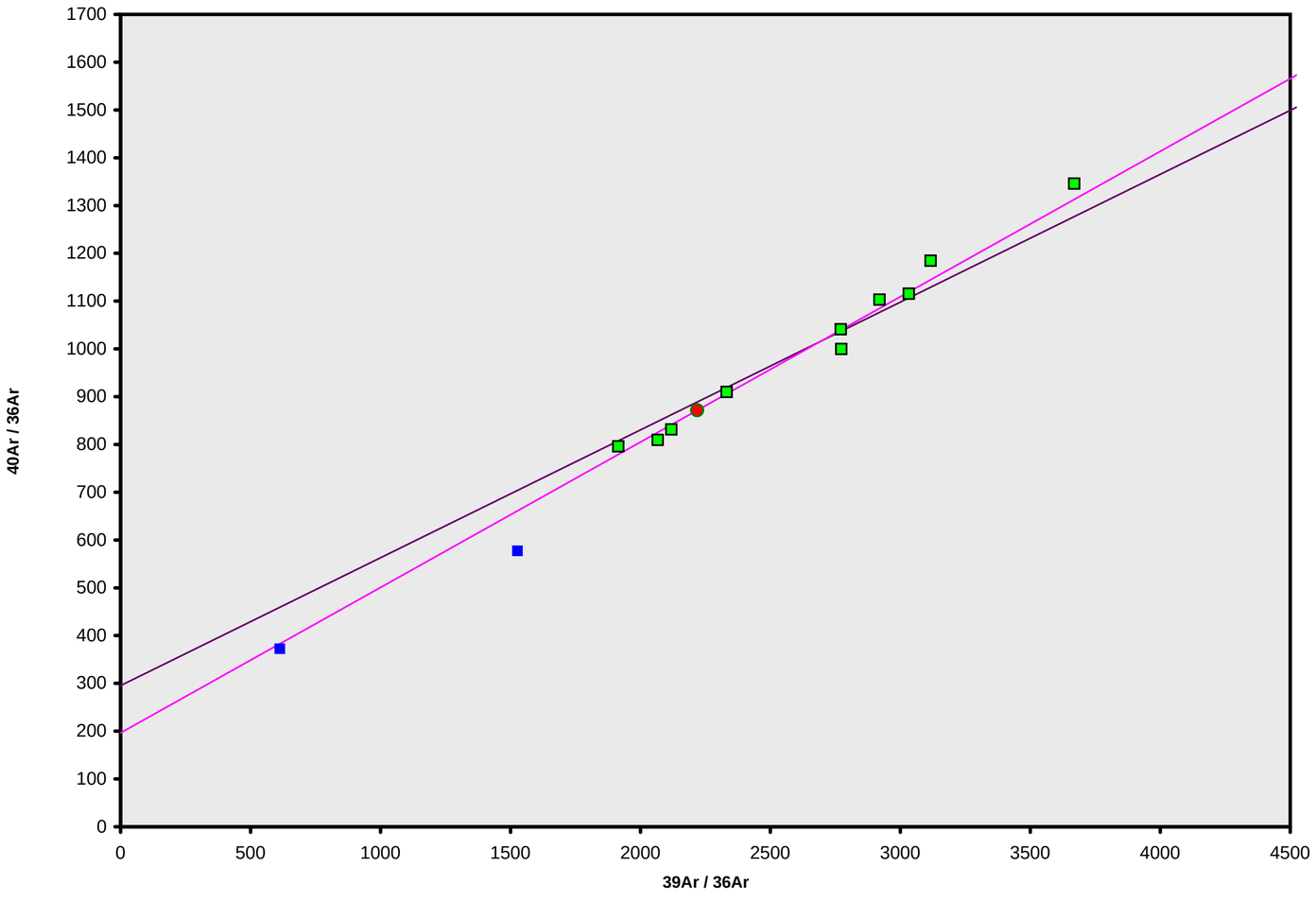
06C3618.AGE >>> TUL-1 3E3-06 >>> SAMOA PROJECT



Ar-Ages in Ma

WEIGHTED PLATEAU
0.83 ± 0.06
TOTAL FUSION
0.81 ± 0.06
NORMAL ISOCHRON
0.95 ± 0.21
INVERSE ISOCHRON
0.96 ± 0.18

MSWD (PROBABILITY)
0.16 (100%)

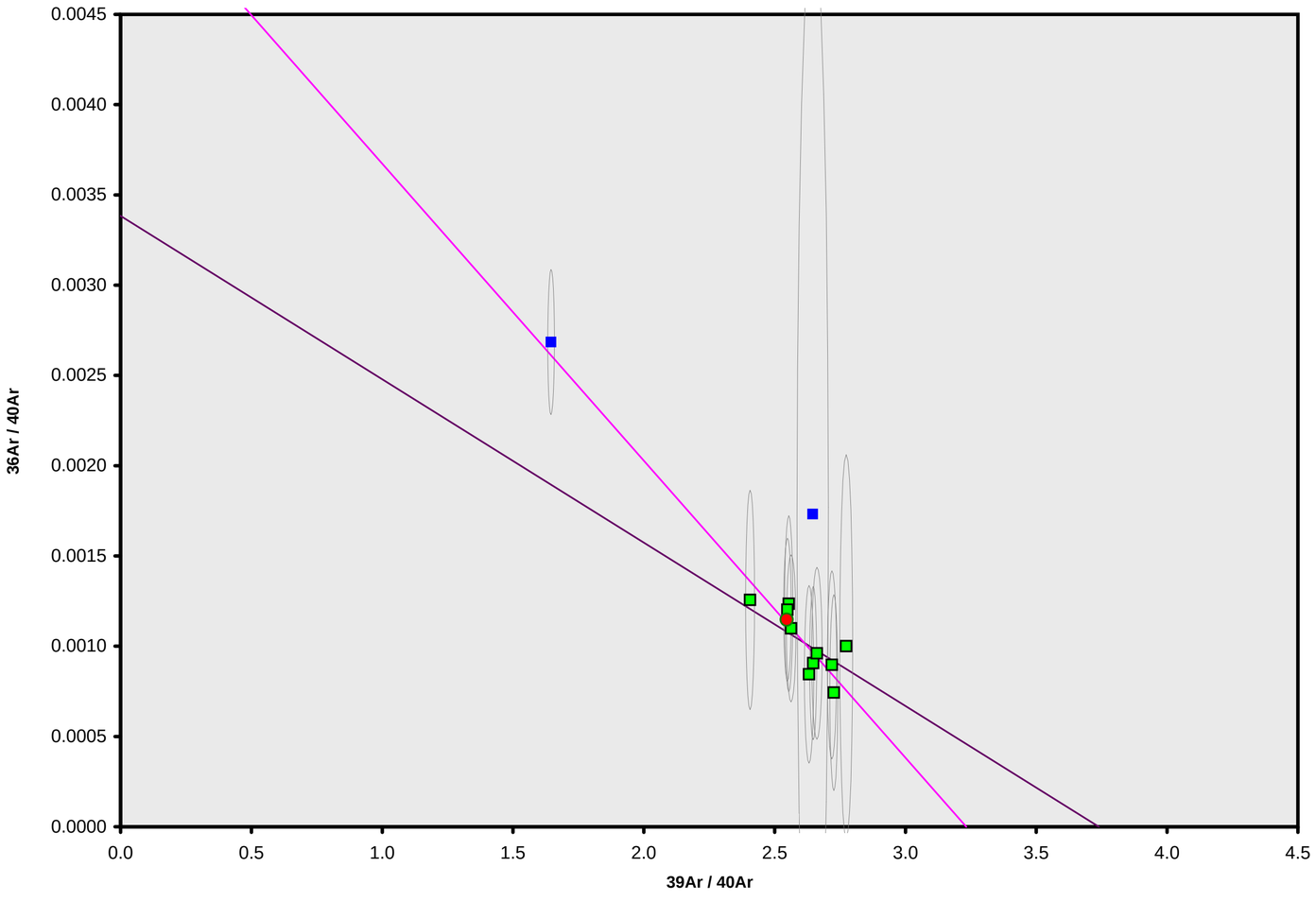
40AR/36AR INTERCEPT
196.4 ± 164.6

Sample Info

K-Feldspar 105-300µm
Tulaga, Samoa
Jamie Russell

IRR = OSU3E06
J = 0.00172500 ± 0.00000431

06C3618.AGE >>> TUL-1 3E3-06 >>> SAMOA PROJECT



Ar-Ages in Ma

WEIGHTED PLATEAU
0.83 ± 0.06
TOTAL FUSION
0.81 ± 0.06
NORMAL ISOCHRON
0.95 ± 0.21
INVERSE ISOCHRON
0.96 ± 0.18

MSWD (PROBABILITY)
0.16 (100%)

SPREADING FACTOR
11.4%

40AR/36AR INTERCEPT
188.0 ± 169.6

Sample Info

K-Feldspar 105-300µm
Tulaga, Samoa
Jamie Russell

IRR = OSU3E06
J = 0.00172500 ± 0.00000431