

Incremental Heating		36Ar(a)	37Ar(ca)	38Ar(cl)	39Ar(k)	40Ar(r)	Age ± 2σ (Ma)	40Ar(r) (%)	39Ar(k) (%)	K/Ca ± 2σ
07C1594	0.00 W	0.005792	0.000115	0.000054	0.001010	0.097311	257.19 ± 88.22	5.38	0.06	3.8 ± 5.7
07C1595	0.01 W	0.008032	0.000139	0.000076	0.001251	0.157017	328.29 ± 78.08	6.21	0.08	3.9 ± 5.5
07C1596	0.02 W	0.010264	0.000157	0.000078	0.002185	0.175216	216.50 ± 65.12	5.46	0.14	6.0 ± 5.7
07C1598	0.03 W	0.007735	0.000301	0.000086	0.003219	0.138769	119.61 ± 36.36	5.72	0.20	4.6 ± 2.5
07C1599	0.09 W	0.005904	0.000349	0.000017	0.007208	0.106596	41.93 ± 10.36	5.76	0.45	8.9 ± 4.6
07C1600	0.12 W	0.003825	0.000885	0.000005	0.019372	0.074336	10.97 ± 4.39	6.17	1.22	9.4 ± 2.1
07C1601	0.18 W	0.002043	0.001594	0.000000	0.030807	0.039543	3.68 ± 1.44	6.15	1.94	8.3 ± 1.0
07C1603	0.27 W	0.001329	0.002975	0.000000	0.060191	0.060659	2.89 ± 0.78	13.37	3.79	8.7 ± 0.8
07C1604	0.35 W	0.000892	0.005059	0.000000	0.098435	0.045350	1.32 ± 0.34	14.67	6.19	8.4 ± 0.4
07C1605	0.44 W	0.000485	0.005595	0.000000	0.104299	0.041509	1.14 ± 0.19	22.44	6.56	8.0 ± 0.4
07C1606	0.50 W ✓	0.000237	0.005745	0.000000	0.106928	0.036152	0.97 ± 0.17	34.03	6.73	8.0 ± 0.4
07C1608	0.53 W ✓	0.000129	0.006197	0.000000	0.112789	0.037959	0.97 ± 0.10	49.82	7.10	7.8 ± 0.4
07C1609	0.65 W ✓	0.000077	0.005345	0.000000	0.097846	0.034278	1.00 ± 0.14	60.01	6.16	7.9 ± 0.6
07C1610	0.74 W ✓	0.000069	0.005869	0.000000	0.107210	0.036746	0.98 ± 0.09	64.16	6.75	7.9 ± 0.6
07C1612	0.88 W ✓	0.000076	0.006837	0.000000	0.121785	0.037369	0.88 ± 0.08	62.30	7.66	7.7 ± 0.5
07C1613	0.97 W ✓	0.000086	0.007364	0.000000	0.130226	0.040534	0.89 ± 0.08	61.39	8.19	7.6 ± 0.5
07C1614	1.15 W ✓	0.000091	0.007094	0.000000	0.123230	0.039364	0.92 ± 0.08	59.35	7.75	7.5 ± 0.5
07C1616	1.24 W ✓	0.000089	0.006078	0.000000	0.104047	0.031117	0.86 ± 0.10	53.90	6.55	7.4 ± 0.6
07C1617	1.41 W ✓	0.000098	0.006208	0.000000	0.098084	0.030772	0.90 ± 0.12	51.36	6.17	6.8 ± 0.5
07C1618	1.50 W ✓	0.000106	0.004881	0.000000	0.076371	0.025206	0.95 ± 0.16	44.58	4.81	6.7 ± 0.5
07C1620	1.71 W ✓	0.000066	0.002105	0.000000	0.032084	0.010213	0.91 ± 0.39	34.16	2.02	6.6 ± 1.1
07C1621	2.21 W ✓	0.000119	0.005040	0.000000	0.072697	0.024561	0.97 ± 0.17	41.14	4.57	6.2 ± 0.5
07C1622	2.65 W	0.000141	0.003244	0.000000	0.046681	0.019164	1.18 ± 0.21	31.44	2.94	6.2 ± 0.7
07C1624	3.51 W	0.000232	0.001896	0.000000	0.026656	0.014361	1.54 ± 0.46	17.32	1.68	6.0 ± 1.2
07C1625	4.83 W	0.000508	0.000411	0.000000	0.004575	0.014086	8.81 ± 2.98	8.58	0.29	4.8 ± 4.2
Σ		0.048423	0.091483	0.000316	1.589183	1.368189				

Information on Analysis	Results	40(r)/39(k) ± 2σ	Age ± 2σ (Ma)	MSWD	39Ar(k) (%),n	K/Ca ± 2σ
Sample = TUL-2 4D2-06 Material = Groundmass 210-300μm Location = Tulaga, Samoa Analyst = Jamie Russell Project = SAMOA Mass Discrimination Law = LIN Irradiation = OSU4D06 J = 0.00158610 ± 0.00000349 FCT-3 = 28.030 ± 0.003 Ma	Age Plateau	0.3218 ± 0.0107 ± 3.33%	0.92 ± 0.03 ± 3.36%	0.76 68%	74.46 12	7.4 ± 0.3
		Minimal External Error ± 0.03		1.43	2σ Confidence Limit	
		Analytical Error ± 0.03		1.0000	Error Magnification	
	Total Fusion Age	0.8609 ± 0.0617 ± 7.17%	2.47 ± 0.18 ± 7.18%		25	7.5 ± 0.3
		Minimal External Error ± 0.18				
		Analytical Error ± 0.18				

Normal Isochron		39(k)/36(a) ± 2σ	40(a+r)/36(a) ± 2σ	r.i.
07C1594	0.00 W	0.2 ± 0.0	312.3 ± 5.9	0.1085
07C1595	0.01 W	0.2 ± 0.0	315.0 ± 4.7	0.1056
07C1596	0.02 W	0.2 ± 0.0	312.6 ± 5.6	0.2260
07C1598	0.03 W	0.4 ± 0.0	313.4 ± 5.9	0.3221
07C1599	0.09 W	1.2 ± 0.0	313.6 ± 4.7	0.4966
07C1600	0.12 W	5.1 ± 0.1	314.9 ± 8.3	0.9095
07C1601	0.18 W	15.1 ± 0.4	314.9 ± 8.0	0.8413
07C1603	0.27 W	45.3 ± 1.7	341.1 ± 14.0	0.9078
07C1604	0.35 W	110.4 ± 4.9	346.4 ± 15.2	0.9933
07C1605	0.44 W	215.1 ± 10.1	381.1 ± 17.9	0.9917
07C1606	0.50 W ✓	451.9 ± 40.4	448.3 ± 40.1	0.9982
07C1608	0.53 W ✓	876.1 ± 85.8	590.3 ± 57.8	0.9946
07C1609	0.65 W ✓	1274.5 ± 265.2	742.0 ± 154.8	0.9959
07C1610	0.74 W ✓	1556.8 ± 236.6	829.1 ± 126.7	0.9938
07C1612	0.88 W ✓	1605.4 ± 230.0	788.1 ± 113.6	0.9935
07C1613	0.97 W ✓	1522.7 ± 210.9	769.4 ± 107.1	0.9936
07C1614	1.15 W ✓	1361.0 ± 166.4	730.3 ± 89.7	0.9925
07C1616	1.24 W ✓	1162.9 ± 156.9	643.3 ± 87.2	0.9922
07C1617	1.41 W ✓	1000.2 ± 132.9	609.3 ± 81.4	0.9928
07C1618	1.50 W ✓	723.1 ± 94.6	534.2 ± 70.5	0.9913
07C1620	1.71 W ✓	482.9 ± 104.6	449.2 ± 98.2	0.9900
07C1621	2.21 W ✓	613.4 ± 72.9	502.7 ± 60.2	0.9905
07C1622	2.65 W	330.7 ± 26.1	431.3 ± 34.5	0.9786
07C1624	3.51 W	115.0 ± 7.1	357.4 ± 22.3	0.9771
07C1625	4.83 W	9.0 ± 0.3	323.2 ± 10.3	0.9076

Results	40(a)/36(a) ± 2σ	40(r)/39(k) ± 2σ	Age ± 2σ (Ma)	MSWD
Normal Isochron	315.8285 ± 31.2342 ± 9.89%	0.3016 ± 0.0299 ± 9.92%	0.86 ± 0.09 ± 9.93%	0.61 81%
			Minimal External Error ± 0.09 Analytical Error ± 0.09	
Statistics	2σ Confidence Limit Error Magnification Number of Data Points	1.89 1.0000 12	Convergence Number of Iterations Calculated Line	0.0000026206 20 Weighted York-2

Inverse Isochron		39(k)/40(a+r) ± 2σ	36(a)/40(a+r) ± 2σ	r.i.
07C1594	0.00 W	0.000558 ± 0.000090	0.003202 ± 0.000060	0.0070
07C1595	0.01 W	0.000494 ± 0.000065	0.003174 ± 0.000047	0.0073
07C1596	0.02 W	0.000681 ± 0.000051	0.003199 ± 0.000057	0.0061
07C1598	0.03 W	0.001328 ± 0.000071	0.003190 ± 0.000060	0.0090
07C1599	0.09 W	0.003893 ± 0.000096	0.003189 ± 0.000048	0.0393
07C1600	0.12 W	0.016079 ± 0.000185	0.003175 ± 0.000083	0.1184
07C1601	0.18 W	0.047881 ± 0.000670	0.003176 ± 0.000080	0.3479
07C1603	0.27 W	0.132743 ± 0.002287	0.002931 ± 0.000120	0.3387
07C1604	0.35 W	0.318695 ± 0.001619	0.002887 ± 0.000127	0.0149
07C1605	0.44 W	0.564340 ± 0.003411	0.002624 ± 0.000123	0.0678
07C1606	0.50 W ✓	1.008074 ± 0.005393	0.002231 ± 0.000199	0.0292
07C1608	0.53 W ✓	1.483998 ± 0.015151	0.001694 ± 0.000166	0.0506
07C1609	0.65 W ✓	1.717687 ± 0.032592	0.001348 ± 0.000281	0.0787
07C1610	0.74 W ✓	1.877724 ± 0.031936	0.001206 ± 0.000184	0.1010
07C1612	0.88 W ✓	2.037045 ± 0.033420	0.001269 ± 0.000183	0.1054
07C1613	0.97 W ✓	1.978931 ± 0.031061	0.001300 ± 0.000181	0.1027
07C1614	1.15 W ✓	1.863750 ± 0.027909	0.001369 ± 0.000168	0.1012
07C1616	1.24 W ✓	1.807714 ± 0.030597	0.001555 ± 0.000211	0.1021
07C1617	1.41 W ✓	1.641522 ± 0.026205	0.001641 ± 0.000219	0.1024
07C1618	1.50 W ✓	1.353704 ± 0.023541	0.001872 ± 0.000247	0.1241
07C1620	1.71 W ✓	1.075003 ± 0.033211	0.002226 ± 0.000487	0.1365
07C1621	2.21 W ✓	1.220121 ± 0.020114	0.001989 ± 0.000238	0.1233
07C1622	2.65 W	0.766759 ± 0.012627	0.002319 ± 0.000186	0.1762
07C1624	3.51 W	0.321644 ± 0.004274	0.002798 ± 0.000174	0.1420
07C1625	4.83 W	0.027869 ± 0.000395	0.003094 ± 0.000098	0.0825

Results	40(a)/36(a) ± 2σ	40(r)/39(k) ± 2σ	Age ± 2σ (Ma)	MSWD
Inverse Isochron	314.2892 ± 31.4115 ± 9.99%	0.3054 ± 0.0291 ± 9.53%	0.88 ± 0.08 ± 9.53%	0.67 75%
			Minimal External Error ± 0.08 Analytical Error ± 0.08	
Statistics	2σ Confidence Limit Error Magnification Number of Data Points Spreading Factor	1.89 1.0000 12 31.4%	Convergence Number of Iterations Calculated Line	0.0027805537 3 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
07C1594	0.00 W	0.0057918	0.908	0.0001150	74.899	0.0011489	1.439	0.0010099	8.068	1.8087649	0.229	257.19 ± 88.22	5.38	0.06	3.8 ± 5.7
07C1595	0.01 W	0.0080317	0.717	0.0001389	70.661	0.0015918	0.892	0.0012511	6.529	2.5303581	0.187	328.29 ± 78.08	6.21	0.08	3.9 ± 5.5
07C1596	0.02 W	0.0102640	0.883	0.0001571	47.378	0.0020231	0.720	0.0021851	3.754	3.2082178	0.144	216.50 ± 65.12	5.46	0.14	6.0 ± 5.7
07C1598	0.03 W	0.0077348	0.926	0.0003012	26.928	0.0015705	1.013	0.0032190	2.682	2.4243707	0.150	119.61 ± 36.36	5.72	0.20	4.6 ± 2.5
07C1599	0.09 W	0.0059044	0.732	0.0003488	25.502	0.0012078	1.530	0.0072083	1.224	1.8513423	0.192	41.93 ± 10.36	5.76	0.45	8.9 ± 4.6
07C1600	0.12 W	0.0038256	1.280	0.0008849	10.744	0.0009546	1.363	0.0193721	0.490	1.2047684	0.299	10.97 ± 4.39	6.17	1.22	9.4 ± 2.1
07C1601	0.18 W	0.0020439	1.136	0.0015945	5.500	0.0007157	1.360	0.0308077	0.427	0.6434437	0.555	3.68 ± 1.44	6.15	1.94	8.3 ± 1.0
07C1603	0.27 W	0.0013300	1.893	0.0029748	4.100	0.0009577	1.002	0.0601930	0.381	0.4535376	0.772	2.89 ± 0.78	13.37	3.79	8.7 ± 0.8
07C1604	0.35 W	0.0008931	2.188	0.0050589	1.161	0.0012909	0.831	0.0984387	0.237	0.3090322	0.090	1.32 ± 0.34	14.67	6.19	8.4 ± 0.4
07C1605	0.44 W	0.0004865	2.326	0.0055950	1.300	0.0012427	1.203	0.1043030	0.208	0.1849883	0.218	1.14 ± 0.19	22.44	6.56	8.0 ± 0.4
07C1606	0.50 W ✓	0.0002382	4.438	0.0057447	1.275	0.0012460	1.297	0.1069321	0.191	0.1062480	0.182	0.97 ± 0.17	34.03	6.73	8.0 ± 0.4
07C1608	0.53 W ✓	0.0001304	4.819	0.0061967	1.796	0.0012943	1.182	0.1127931	0.366	0.0761893	0.350	0.97 ± 0.10	49.82	7.10	7.8 ± 0.4
07C1609	0.65 W ✓	0.0000782	10.205	0.0053445	3.294	0.0011360	1.979	0.0978495	0.348	0.0571251	0.877	1.00 ± 0.14	60.01	6.16	7.9 ± 0.6
07C1610	0.74 W ✓	0.0000704	7.425	0.0058691	2.984	0.0011963	2.025	0.1072137	0.259	0.0572724	0.804	0.98 ± 0.09	64.16	6.75	7.9 ± 0.6
07C1612	0.88 W ✓	0.0000777	6.991	0.0068369	2.631	0.0013887	1.391	0.1217901	0.224	0.0599862	0.782	0.88 ± 0.08	62.30	7.66	7.7 ± 0.5
07C1613	0.97 W ✓	0.0000875	6.764	0.0073643	2.458	0.0014795	1.321	0.1302309	0.235	0.0660209	0.742	0.89 ± 0.08	61.39	8.19	7.6 ± 0.5
07C1614	1.15 W ✓	0.0000924	5.978	0.0070940	2.648	0.0013655	1.634	0.1232350	0.309	0.0663227	0.676	0.92 ± 0.08	59.35	7.75	7.5 ± 0.5
07C1616	1.24 W ✓	0.0000911	6.614	0.0060783	3.229	0.0012279	1.671	0.1040513	0.361	0.0577289	0.759	0.86 ± 0.10	53.90	6.55	7.4 ± 0.6
07C1617	1.41 W ✓	0.0000997	6.526	0.0062081	2.802	0.0011281	1.720	0.0980881	0.302	0.0599136	0.734	0.90 ± 0.12	51.36	6.17	6.8 ± 0.5
07C1618	1.50 W ✓	0.0001069	6.460	0.0048809	3.528	0.0009119	2.061	0.0763744	0.210	0.0565423	0.840	0.95 ± 0.16	44.58	4.81	6.7 ± 0.5
07C1620	1.71 W ✓	0.0000670	10.732	0.0021051	8.237	0.0003932	4.796	0.0320854	0.285	0.0298984	1.515	0.91 ± 0.39	34.16	2.02	6.6 ± 1.1
07C1621	2.21 W ✓	0.0001199	5.867	0.0050396	3.526	0.0008978	2.090	0.0727004	0.267	0.0597016	0.777	0.97 ± 0.17	41.14	4.57	6.2 ± 0.5
07C1622	2.65 W	0.0001420	3.905	0.0032439	5.511	0.0005632	3.599	0.0466828	0.312	0.0609573	0.760	1.18 ± 0.21	31.44	2.94	6.2 ± 0.7
07C1624	3.51 W	0.0002324	3.061	0.0018960	9.866	0.0003612	5.128	0.0266572	0.384	0.0829178	0.542	1.54 ± 0.46	17.32	1.68	6.0 ± 1.2
07C1625	4.83 W	0.0005080	1.556	0.0004113	43.621	0.0001289	13.455	0.0045754	0.640	0.1641740	0.305	8.81 ± 2.98	8.58	0.29	4.8 ± 4.2
Σ		0.0484477	0.333	0.0914826	0.786	0.0274223	0.321	1.5892477	0.071	15.6798226	0.072				

Information on Analysis and Constants Used in Calculations
Sample = TUL-2 4D2-06
Material = Groundmass 210-300μm
Location = Tulaga, Samoa
Analyst = Jamie Russell
Project = SAMOA
Mass Discrimination Law = LIN
Irradiation = OSU4D06
J = 0.00158610 ± 0.00000349
FCT-3 = 28.030 ± 0.003 Ma
IGSN = KOP000040
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	0.3218 ± 0.0107 ± 3.33%	0.92 ± 0.03 ± 3.36%	0.76 68%	74.46 12	7.4 ± 0.3
	Minimal External Error ± 0.03		1.43	2σ Confidence Limit	
	Analytical Error ± 0.03		1.0000	Error Magnification	
Total Fusion Age	0.8609 ± 0.0617 ± 7.17%	2.47 ± 0.18 ± 7.18%		25	7.5 ± 0.3
	Minimal External Error ± 0.18				
	Analytical Error ± 0.18				
Normal Isochron	0.3016 ± 0.0299 ± 9.92%	0.86 ± 0.09 ± 9.93%	0.61 81%	74.46 12	
	Minimal External Error ± 0.09		1.89	2σ Confidence Limit	
	Analytical Error ± 0.09		1.0000	Error Magnification	
Inverse Isochron	0.3054 ± 0.0291 ± 9.53%	0.88 ± 0.08 ± 9.53%	0.67 75%	74.46 12	
	Minimal External Error ± 0.08		1.89	2σ Confidence Limit	
	Analytical Error ± 0.08		1.0000	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
07C1594	0.00 W	0.005792	0.91	0.000000	0.00	0.000000	74.90	0.000000	35.92	0.000115	74.90	0.001082	0.91	0.000000	0.00	0.000012	8.07	0.000000	78.04	0.000054	36.33	0.001010	8.07	0.000000	74.92	0.097311	16.54	1.711452	0.91	0.000000	0.00	0.000002	26.17
07C1595	0.01 W	0.008032	0.72	0.000000	0.00	0.000000	70.66	0.000000	24.22	0.000139	70.66	0.001501	0.72	0.000000	0.00	0.000015	6.53	0.000000	73.98	0.000076	24.81	0.001251	6.53	0.000000	70.69	0.157017	11.25	2.373339	0.72	0.000000	0.00	0.000002	25.74
07C1596	0.02 W	0.010264	0.88	0.000000	0.00	0.000000	47.38	0.000000	29.08	0.000157	47.38	0.001918	0.88	0.000000	0.00	0.000026	3.76	0.000000	52.19	0.000078	29.57	0.002185	3.75	0.000000	47.41	0.175216	15.51	3.032998	0.88	0.000000	0.00	0.000004	25.18
07C1598	0.03 W	0.007735	0.93	0.000000	0.00	0.000000	26.93	0.000000	24.82	0.000301	26.93	0.001446	0.93	0.000000	0.00	0.000039	2.68	0.000000	34.71	0.000086	25.40	0.003219	2.68	0.000000	26.99	0.138769	15.48	2.285597	0.93	0.000000	0.00	0.000005	25.04
07C1599	0.09 W	0.005904	0.73	0.000000	0.00	0.000000	25.51	0.000000	119.05	0.000349	25.50	0.001104	0.73	0.000000	0.00	0.000087	1.23	0.000000	33.62	0.000017	119.17	0.007208	1.22	0.000000	25.57	0.106596	12.44	1.744734	0.73	0.000000	0.00	0.000012	24.93
07C1600	0.12 W	0.003825	1.28	0.000000	0.00	0.000000	10.75	0.000000	317.29	0.000885	10.74	0.000715	1.28	0.000000	0.00	0.000235	0.50	0.000000	24.39	0.000005	317.34	0.019372	0.49	0.000001	10.90	0.074336	20.06	1.130400	1.28	0.000000	0.00	0.000032	24.90
07C1601	0.18 W	0.002043	1.14	0.000000	0.00	0.000000	5.51	0.000000	0.00	0.001594	5.50	0.000382	1.14	0.000000	0.00	0.000373	0.44	0.000000	22.58	0.000000	0.00	0.030807	0.43	0.000001	5.80	0.039543	19.56	0.603850	1.14	0.000000	0.00	0.000051	24.90
07C1603	0.27 W	0.001329	1.89	0.000000	0.00	0.000001	4.12	0.000000	0.00	0.002975	4.10	0.000248	1.89	0.000000	0.00	0.000729	0.39	0.000000	22.28	0.000000	0.00	0.060191	0.38	0.000002	4.49	0.060659	13.56	0.392779	1.89	0.000000	0.00	0.000099	24.90
07C1604	0.35 W	0.000892	2.19	0.000000	0.00	0.000001	1.22	0.000000	0.00	0.005059	1.16	0.000167	2.19	0.000000	0.00	0.001192	0.26	0.000000	21.93	0.000000	0.00	0.098435	0.24	0.000004	2.17	0.045350	12.75	0.263520	2.19	0.000000	0.00	0.000162	24.90
07C1605	0.44 W	0.000485	2.33	0.000000	0.00	0.000002	1.35	0.000000	0.00	0.005595	1.30	0.000091	2.33	0.000000	0.00	0.001263	0.23	0.000000	21.94	0.000000	0.00	0.104299	0.21	0.000004	2.25	0.041509	8.11	0.143307	2.33	0.000000	0.00	0.000172	24.90
07C1606	0.50 W ✓	0.000237	4.47	0.000000	0.00	0.000002	1.33	0.000000	0.00	0.005745	1.27	0.000044	4.47	0.000000	0.00	0.001295	0.22	0.000000	21.94	0.000000	0.00	0.106928	0.19	0.000004	2.23	0.036152	8.66	0.069919	4.47	0.000000	0.00	0.000176	24.90
07C1608	0.53 W ✓	0.000129	4.88	0.000000	0.00	0.000002	1.83	0.000000	0.00	0.006197	1.80	0.000024	4.88	0.000000	0.00	0.001366	0.38	0.000000	21.97	0.000000	0.00	0.112789	0.37	0.000004	2.56	0.037959	4.94	0.038044	4.88	0.000000	0.00	0.000186	24.90
07C1609	0.65 W ✓	0.000077	10.40	0.000000	0.00	0.000001	3.31	0.000000	0.00	0.005345	3.29	0.000014	10.40	0.000000	0.00	0.001185	0.36	0.000000	22.15	0.000000	0.00	0.097846	0.35	0.000004	3.77	0.034278	7.04	0.022685	10.40	0.000000	0.00	0.000161	24.90
07C1610	0.74 W ✓	0.000069	7.60	0.000000	0.00	0.000002	3.01	0.000000	0.00	0.005869	2.98	0.000013	7.60	0.000000	0.00	0.001298	0.28	0.000000	22.10	0.000000	0.00	0.107210	0.26	0.000004	3.50	0.036746	4.39	0.020350	7.60	0.000000	0.00	0.000177	24.90
07C1612	0.88 W ✓	0.000076	7.16	0.000000	0.00	0.000002	2.66	0.000000	0.00	0.006837	2.63	0.000014	7.16	0.000000	0.00	0.001475	0.25	0.000000	22.06	0.000000	0.00	0.121785	0.22	0.000005	3.21	0.037369	4.48	0.022416	7.16	0.000000	0.00	0.000201	24.90
07C1613	0.97 W ✓	0.000086	6.92	0.000000	0.00	0.000002	2.49	0.000000	0.00	0.007364	2.46	0.000016	6.92	0.000000	0.00	0.001577	0.26	0.000000	22.04	0.000000	0.00	0.130226	0.23	0.000005	3.06	0.040534	4.48	0.025273	6.92	0.000000	0.00	0.000215	24.90
07C1614	1.15 W ✓	0.000091	6.10	0.000000	0.00	0.000002	2.67	0.000000	0.00	0.007094	2.65	0.000017	6.10	0.000000	0.00	0.001492	0.32	0.000000	22.06	0.000000	0.00	0.123230	0.31	0.000005	3.22	0.039364	4.30	0.026755	6.10	0.000000	0.00	0.000203	24.90
07C1616	1.24 W ✓	0.000089	6.74	0.000000	0.00	0.000002	3.25	0.000000	0.00	0.006078	3.23	0.000017	6.74	0.000000	0.00	0.001260	0.37	0.000000	22.14	0.000000	0.00	0.104047	0.36	0.000004	3.71	0.031117	5.90	0.026440	6.74	0.000000	0.00	0.000172	24.90
07C1617	1.41 W ✓	0.000098	6.64	0.000000	0.00	0.000002	2.83	0.000000	0.00	0.006208	2.80	0.000018	6.64	0.000000	0.00	0.001188	0.32	0.000000	22.08	0.000000	0.00	0.098084	0.30	0.000004	3.35	0.030772	6.41	0.028979	6.64	0.000000	0.00	0.000162	24.90
07C1618	1.50 W ✓	0.000106	6.54	0.000000	0.00	0.000001	3.55	0.000000	0.00	0.004881	3.53	0.000020	6.54	0.000000	0.00	0.000925	0.23	0.000000	22.18	0.000000	0.00	0.076371	0.21	0.000003	3.97	0.025206	8.32	0.031210	6.54	0.000000	0.00	0.000126	24.90
07C1620	1.71 W ✓	0.000066	10.82	0.000000	0.00	0.000001	8.25	0.000000	0.00	0.002105	8.24	0.000012	10.82	0.000000	0.00	0.000389	0.30	0.000000	23.40	0.000000	0.00	0.032084	0.28	0.000001	8.44	0.010213	21.28	0.019633	10.82	0.000000	0.00	0.000053	24.90
07C1621	2.21 W ✓	0.000119	5.93	0.000000	0.00	0.000001	3.55	0.000000	0.00	0.005040	3.53	0.000022	5.93	0.000000	0.00	0.000880	0.28	0.000000	22.18	0.000000	0.00	0.072697	0.27	0.000004	3.97	0.024561	8.67	0.035021	5.93	0.000000	0.00	0.000120	24.90
07C1622	2.65 W	0.000141	3.93	0.000000	0.00	0.000001	5.52	0.000000	0.00	0.003244	5.51	0.000026	3.93	0.000000	0.00	0.000565	0.33	0.000000	22.58	0.000000	0.00	0.046681	0.31	0.000002	5.81	0.019164	8.89	0.041716	3.93	0.000000	0.00	0.000077	24.90
07C1624	3.51 W	0.000232	3.07	0.000000	0.00	0.000001	9.87	0.000000	0.00	0.001896	9.87	0.000043	3.07	0.000000	0.00	0.000323	0.40	0.000000	24.02	0.000000	0.00	0.026656	0.38	0.000001	10.03	0.014361	14.97	0.068513	3.07	0.000000	0.00	0.000044	24.90
07C1625	4.83 W	0.000508	1.56	0.000000	0.00	0.000000	43.62	0.000000	0.00	0.000411	43.62	0.000095	1.56	0.000000	0.00	0.000055	0.65	0.000000	48.81	0.000000	0.00	0.004575	0.64	0.000000	43.66	0.014086	16.96	0.150080	1.56	0.000000	0.00	0.000008	24.91
Σ		0.048423	0.33	0.000000	0.00	0.000025	0.79	0.000000	15.34	0.091483	0.79	0.009050	0.33	0.000000	0.00	0.019245	0.07	0.000003	5.40	0.000316	15.55	1.589183	0.07	0.000065	0.90	1.368189	3.58	14.309011	0.33	0.000000	0.00	0.002622	6.13
Σ							0.048448	0.33		0.091483	0.79									0.028614	0.21			1.589248	0.07							15.679823	0.44

Additional Parameters		40(r)/39(k)	1 σ	40(r+a)	1 σ	40Ar/39Ar	1 σ	37Ar/39Ar	1 σ	36Ar/39Ar	1 σ	Time (days)	37Ar (decay)	39Ar (decay)	40Ar (moles)
07C1594	0.00 W	96.361383	17.72937	1.808763	0.00415	1790.972724	144.54993	0.113837	0.08576	5.734789	0.46559	116.988	10.10676583	1.00082669	1.830E-19
07C1595	0.01 W	125.507819	16.32165	2.530356	0.00474	2022.427464	132.09683	0.110989	0.07876	6.419427	0.42164	117.006	10.11037089	1.00082681	2.561E-19
07C1596	0.02 W	80.189511	12.79668	3.208214	0.00461	1468.201972	55.15695	0.071880	0.03416	4.697201	0.18115	117.024	10.11397722	1.00082694	3.247E-19
07C1598	0.03 W	43.111760	6.77200	2.424365	0.00365	753.137178	20.23210	0.093569	0.02532	2.402829	0.06818	117.060	10.12119376	1.00082720	2.453E-19
07C1599	0.09 W	14.788526	1.84803	1.851330	0.00355	256.834967	3.18105	0.048393	0.01236	0.819118	0.01168	117.078	10.12494284	1.00082733	1.874E-19
07C1600	0.12 W	3.837395	0.77008	1.204736	0.00360	62.190744	0.35680	0.045681	0.00491	0.197480	0.00271	117.097	10.12855437	1.00082746	1.219E-19
07C1601	0.18 W	1.283596	0.25114	0.643393	0.00357	20.885826	0.14618	0.051756	0.00286	0.066344	0.00081	117.115	10.13230618	1.00082759	6.512E-20
07C1603	0.27 W	1.007776	0.13667	0.453438	0.00350	7.534720	0.06489	0.049420	0.00204	0.022096	0.00043	117.151	10.13953579	1.00082784	4.590E-20
07C1604	0.35 W	0.460709	0.05873	0.308870	0.00028	3.139335	0.00796	0.051391	0.00061	0.009073	0.00020	117.169	10.14301341	1.00082797	3.127E-20
07C1605	0.44 W	0.397982	0.03230	0.184816	0.00040	1.773565	0.00534	0.053642	0.00071	0.004664	0.00011	117.187	10.14663139	1.00082809	1.872E-20
07C1606	0.50 W ✓	0.338101	0.02928	0.106072	0.00020	0.993603	0.00262	0.053723	0.00069	0.002227	0.00010	117.205	10.15025066	1.00082822	1.075E-20
07C1608	0.53 W ✓	0.336548	0.01668	0.076003	0.00027	0.675479	0.00342	0.054939	0.00101	0.001156	0.00006	117.615	10.23272823	1.00083112	7.710E-21
07C1609	0.65 W ✓	0.350329	0.02468	0.056964	0.00050	0.583806	0.00551	0.054620	0.00181	0.000799	0.00008	117.633	10.23651863	1.00083125	5.781E-21
07C1610	0.74 W ✓	0.342748	0.01507	0.057095	0.00046	0.534189	0.00451	0.054742	0.00164	0.000657	0.00005	117.651	10.24016996	1.00083138	5.796E-21
07C1612	0.88 W ✓	0.306846	0.01376	0.059785	0.00047	0.492538	0.00401	0.056137	0.00148	0.000638	0.00004	117.687	10.24733598	1.00083163	6.071E-21
07C1613	0.97 W ✓	0.311256	0.01397	0.065806	0.00049	0.506953	0.00395	0.056548	0.00140	0.000672	0.00005	117.706	10.25113178	1.00083176	6.681E-21
07C1614	1.15 W ✓	0.319439	0.01379	0.066119	0.00045	0.538181	0.00400	0.057565	0.00153	0.000750	0.00004	117.724	10.25492899	1.00083189	6.712E-21
07C1616	1.24 W ✓	0.299069	0.01767	0.057557	0.00044	0.554812	0.00467	0.058416	0.00190	0.000876	0.00006	117.760	10.26210534	1.00083214	5.842E-21
07C1617	1.41 W ✓	0.313735	0.02014	0.059752	0.00044	0.610813	0.00485	0.063291	0.00178	0.001017	0.00007	117.779	10.26604743	1.00083228	6.063E-21
07C1618	1.50 W ✓	0.330048	0.02746	0.056416	0.00048	0.740331	0.00641	0.063908	0.00226	0.001400	0.00009	117.797	10.26956843	1.00083240	5.722E-21
07C1620	1.71 W ✓	0.318313	0.06773	0.029845	0.00045	0.931837	0.01436	0.065608	0.00541	0.002088	0.00022	117.833	10.27689598	1.00083266	3.026E-21
07C1621	2.21 W ✓	0.337854	0.02931	0.059582	0.00046	0.821201	0.00674	0.069320	0.00245	0.001649	0.00010	117.851	10.28070274	1.00083279	6.042E-21
07C1622	2.65 W	0.410539	0.03651	0.060880	0.00046	1.305776	0.01073	0.069487	0.00384	0.003043	0.00012	117.869	10.28436983	1.00083292	6.169E-21
07C1624	3.51 W	0.538753	0.08066	0.082874	0.00045	3.110523	0.02065	0.071124	0.00702	0.008717	0.00027	117.906	10.29170795	1.00083317	8.391E-21
07C1625	4.83 W	3.078866	0.52258	0.164166	0.00050	35.881562	0.25443	0.089898	0.03922	0.111027	0.00187	117.924	10.29537897	1.00083330	1.661E-20

Procedure Blanks		36Ar	1σ	37Ar	1σ	38Ar	1σ	39Ar	1σ	40Ar	1σ
07C1594	0.00 W	0.000100	0.000008	0.000017	0.000007	0.000030	0.000008	0.000180	0.000081	0.031077	0.003369
07C1595	0.01 W	0.000096	0.000008	0.000018	0.000007	0.000031	0.000008	0.000156	0.000081	0.029840	0.003369
07C1596	0.02 W	0.000091	0.000008	0.000019	0.000007	0.000032	0.000008	0.000132	0.000081	0.028287	0.003369
07C1598	0.03 W	0.000078	0.000008	0.000022	0.000007	0.000031	0.000008	0.000094	0.000081	0.024282	0.003369
07C1599	0.09 W	0.000069	0.000008	0.000023	0.000007	0.000029	0.000008	0.000084	0.000081	0.021772	0.003369
07C1600	0.12 W	0.000061	0.000008	0.000025	0.000007	0.000024	0.000008	0.000084	0.000081	0.019113	0.003369
07C1601	0.18 W	0.000051	0.000008	0.000026	0.000007	0.000018	0.000008	0.000099	0.000081	0.016137	0.003369
07C1603	0.27 W	0.000031	0.000008	0.000029	0.000007	0.000018	0.000008	0.000180	0.000081	0.009953	0.003369
07C1604	0.35 W	0.000042	0.000007	0.000028	0.000004	0.000009	0.000007	0.000124	0.000005	0.013521	0.000043
07C1605	0.44 W	0.000042	0.000007	0.000028	0.000004	0.000009	0.000007	0.000124	0.000005	0.013521	0.000043
07C1606	0.50 W	0.000042	0.000007	0.000028	0.000004	0.000009	0.000007	0.000124	0.000005	0.013521	0.000043
07C1608	0.53 W	0.000029	0.000003	0.000012	0.000004	0.000002	0.000013	0.000032	0.000006	0.006607	0.000018
07C1609	0.65 W	0.000032	0.000004	0.000018	0.000016	0.000005	0.000017	0.000039	0.000006	0.008956	0.000433
07C1610	0.74 W	0.000033	0.000004	0.000019	0.000016	0.000008	0.000017	0.000041	0.000006	0.009784	0.000433
07C1612	0.88 W	0.000034	0.000004	0.000020	0.000016	0.000010	0.000017	0.000045	0.000006	0.010944	0.000433
07C1613	0.97 W	0.000035	0.000004	0.000020	0.000016	0.000010	0.000017	0.000046	0.000006	0.011360	0.000433
07C1614	1.15 W	0.000036	0.000004	0.000019	0.000016	0.000010	0.000017	0.000047	0.000006	0.011671	0.000433
07C1616	1.24 W	0.000037	0.000004	0.000018	0.000016	0.000009	0.000017	0.000049	0.000006	0.012069	0.000433
07C1617	1.41 W	0.000039	0.000004	0.000017	0.000016	0.000008	0.000017	0.000050	0.000006	0.012234	0.000433
07C1618	1.50 W	0.000041	0.000004	0.000016	0.000016	0.000008	0.000017	0.000051	0.000006	0.012379	0.000433
07C1620	1.71 W	0.000046	0.000004	0.000014	0.000016	0.000009	0.000017	0.000055	0.000006	0.012769	0.000433
07C1621	2.21 W	0.000050	0.000004	0.000014	0.000016	0.000011	0.000017	0.000058	0.000006	0.013067	0.000433
07C1622	2.65 W	0.000055	0.000004	0.000014	0.000016	0.000014	0.000017	0.000061	0.000006	0.013449	0.000433
07C1624	3.51 W	0.000067	0.000004	0.000015	0.000016	0.000022	0.000017	0.000069	0.000006	0.014585	0.000433
07C1625	4.83 W	0.000074	0.000004	0.000016	0.000016	0.000029	0.000017	0.000075	0.000006	0.015385	0.000433

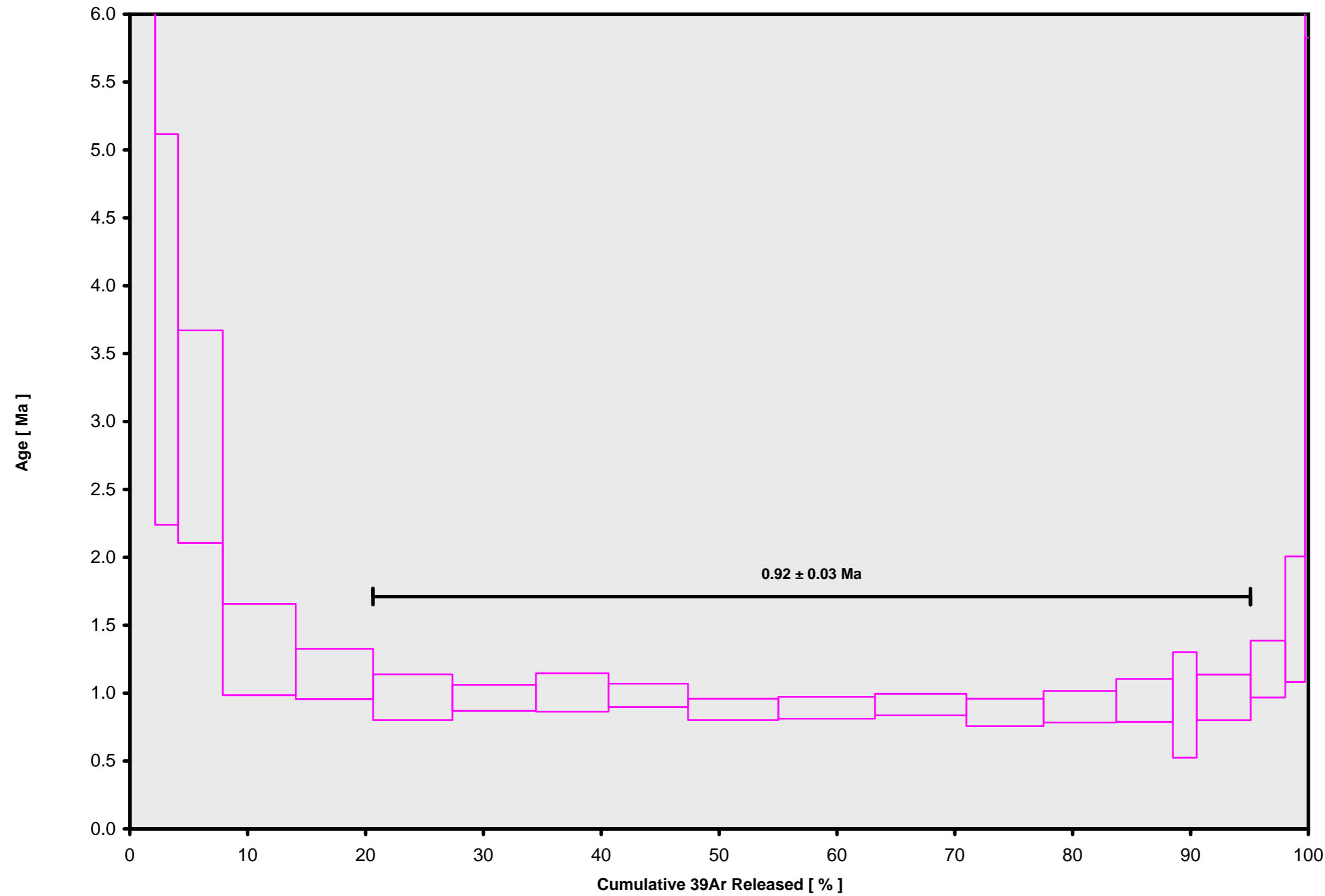
Intercept Values		36Ar	1σ	r2		37Ar	1σ	r2		38Ar	1σ	r2		39Ar	1σ	r2		40Ar	1σ	r2	
07C1594	0.00 W	0.005892	0.000037	0.8986	LIN # 1	0.000028	0.000005	0.9602	LIN #	0.001170	0.000014	0.1264	LIN # 1	0.001176	0.000012	0.9998	LIN #	1.812831	0.002387	0.9931	EXP #
07C1595	0.01 W	0.008128	0.000026	0.9036	LIN # 1 7 10	0.000031	0.000007	0.9617	LIN #	0.001611	0.000011	0.1089	LIN #	0.001390	0.000013	0.9999	LIN #	2.522612	0.003288	0.9933	LIN # 1 5
07C1596	0.02 W	0.010355	0.000063	0.8404	LIN # 1 2	0.000034	0.000003	0.9969	LIN # 4	0.002040	0.000011	0.5892	LIN #	0.002290	0.000015	0.9999	EXP #	3.188675	0.003100	0.9944	LIN # 5
07C1598	0.03 W	0.007810	0.000052	0.8953	EXP # 1	0.000051	0.000004	0.9859	LIN # 1	0.001589	0.000013	0.1076	LIN #	0.003273	0.000030	0.9992	LIN #	2.411990	0.001375	0.9984	LIN # 5 7
07C1599	0.09 W	0.005973	0.000020	0.9594	EXP # 2	0.000057	0.000006	0.9740	LIN #	0.001227	0.000016	0.4825	LIN #	0.007205	0.000033	0.9985	EXP #	1.845251	0.001106	0.9976	EXP # 8
07C1600	0.12 W	0.003885	0.000042	0.7460	LIN # 1	0.000111	0.000006	0.9246	LIN #	0.000972	0.000010	0.3223	LIN # 1	0.019223	0.000039	0.9918	LIN # 1 10	1.205675	0.001251	0.9914	LIN #
07C1601	0.18 W	0.002094	0.000018	0.7605	LIN # 1	0.000183	0.000005	0.7374	LIN #	0.000728	0.000006	0.8000	LIN #	0.030542	0.000090	0.5362	LIN # 1	0.649897	0.001163	0.9371	LIN # 1 2 4
07C1603	0.27 W	0.001361	0.000022	0.0106	LIN # 1 2	0.000321	0.000010	0.3313	LIN #	0.000968	0.000005	0.9198	LIN # 1 10	0.059673	0.000190	0.9080	EXP # 8	0.456776	0.000943	0.9501	EXP #
07C1604	0.35 W	0.000935	0.000017	0.0831	LIN # 1	0.000525	0.000003	0.3198	LIN # 2	0.001291	0.000007	0.8997	LIN # 1 2	0.097430	0.000170	0.9896	EXP # 1 2	0.317911	0.000271	0.9313	LIN # 1 2 9 10
07C1605	0.44 W	0.000528	0.000008	0.0254	LIN # 3	0.000577	0.000005	0.2180	LIN # 5	0.001243	0.000013	0.2257	LIN #	0.103217	0.000138	0.9921	LIN # 3 7	0.195633	0.000395	0.5123	LIN # 4
07C1606	0.50 W	0.000280	0.000007	0.1342	LIN #	0.000592	0.000005	0.1618	LIN #	0.001246	0.000014	0.5378	LIN #	0.105826	0.000111	0.9938	EXP #	0.118045	0.000186	0.9759	LIN # 4
07C1608	0.53 W	0.000159	0.000006	0.3280	LIN #	0.000616	0.000009	0.0817	LIN #	0.001288	0.000007	0.8681	LIN #	0.111562	0.000367	0.9505	LIN # 1	0.081629	0.000262	0.9582	EXP #
07C1609	0.65 W	0.000110	0.000007	0.2033	LIN #	0.000539	0.000005	0.0360	LIN #	0.001133	0.000014	0.6395	LIN # 1	0.096773	0.000299	0.9556	EXP # 5 7	0.065137	0.000248	0.9419	LIN # 1
07C1610	0.74 W	0.000103	0.000003	0.8475	LIN #	0.000591	0.000004	0.2312	LIN # 7	0.001196	0.000017	0.1828	LIN #	0.106033	0.000217	0.9751	LIN #	0.066098	0.000153	0.9797	EXP # 9
07C1612	0.88 W	0.000112	0.000004	0.3118	LIN #	0.000685	0.000005	0.6201	LIN #	0.001389	0.000008	0.8663	LIN # 1 8	0.120458	0.000189	0.9879	EXP #	0.069924	0.000178	0.9490	LIN # 10
07C1613	0.97 W	0.000122	0.000004	0.5233	LIN #	0.000736	0.000005	0.4858	LIN #	0.001479	0.000008	0.7016	LIN #	0.128817	0.000221	0.9853	EXP # 2 3	0.076290	0.000226	0.9544	LIN # 1 7
07C1614	1.15 W	0.000128	0.000004	0.8384	LIN # 7	0.000709	0.000007	0.0000	LIN #	0.001366	0.000014	0.2140	LIN #	0.121889	0.000322	0.9660	LIN # 1	0.076887	0.000113	0.9878	LIN # 1
07C1616	1.24 W	0.000128	0.000004	0.3734	LIN # 4	0.000608	0.000009	0.0149	LIN #	0.001228	0.000011	0.8751	LIN # 1	0.102913	0.000333	0.9594	LIN # 1	0.068800	0.000066	0.9961	EXP # 1 5
07C1617	1.41 W	0.000138	0.000005	0.3667	LIN #	0.000619	0.000003	0.9193	LIN # 10	0.001129	0.000008	0.5307	LIN #	0.097019	0.000249	0.9780	EXP # 1	0.071116	0.000074	0.9928	EXP # 8
07C1618	1.50 W	0.000147	0.000006	0.4135	LIN #	0.000489	0.000003	0.6829	LIN #	0.000914	0.000007	0.8453	LIN # 1	0.075554	0.000103	0.9913	LIN #	0.067936	0.000192	0.9434	LIN #
07C1620	1.71 W	0.000113	0.000006	0.0272	LIN #	0.000218	0.000004	0.0534	LIN #	0.000400	0.000008	0.3632	LIN #	0.031774	0.000075	0.9661	LIN #	0.042057	0.000130	0.9807	LIN # 4 8
07C1621	2.21 W	0.000169	0.000006	0.2909	LIN #	0.000502	0.000005	0.1504	LIN #	0.000903	0.000007	0.7314	LIN #	0.071929	0.000153	0.9746	EXP # 2	0.071729	0.000163	0.9418	LIN # 10
07C1622	2.65 W	0.000196	0.000004	0.5794	LIN #	0.000328	0.000006	0.0028	LIN #	0.000573	0.000011	0.0282	LIN #	0.046202	0.000124	0.9642	LIN #	0.073329	0.000162	0.9446	LIN # 5
07C1624	3.51 W	0.000298	0.000006	0.0930	LIN #	0.000198	0.000008	0.0269	LIN #	0.000381	0.000007	0.2631	LIN #	0.026411	0.000092	0.9144	LIN # 3	0.096071	0.000117	0.8902	EXP # 4 5
07C1625	4.83 W	0.000581	0.000006	0.0113	LIN #	0.000056	0.000006	0.1879	LIN #	0.000156	0.000003	0.8647	LIN # 8	0.004594	0.000027	0.9306	LIN #	0.176888	0.000246	0.8702	EXP # 6

Institute of Geophysics and Planetary Physics
Scripps Institution of Oceanography, La Jolla, USA

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	
07C1594	0.00 W	TUL-2 4D2-06	Groundmass 210-300μm	Tulaga, Samoa	Jamie Russell	0	28.03	0.01	0.0015861	0.22	1.00378	0.16	1.0149	1.012E-19	17	APR	2007	15	42	001	OSU4D06	Samoa	07C1594	01	FCT-3
07C1595	0.01 W	TUL-2 4D2-06	Groundmass 210-300μm	Tulaga, Samoa	Jamie Russell	0.01	28.03	0.01	0.0015861	0.22	1.00378	0.16	1.0149	1.012E-19	17	APR	2007	16	08	001	OSU4D06	Samoa	07C1594	01	FCT-3
07C1596	0.02 W	TUL-2 4D2-06	Groundmass 210-300μm	Tulaga, Samoa	Jamie Russell	0.02	28.03	0.01	0.0015861	0.22	1.00378	0.16	1.015	1.012E-19	17	APR	2007	16	34	001	OSU4D06	Samoa	07C1594	01	FCT-3
07C1598	0.03 W	TUL-2 4D2-06	Groundmass 210-300μm	Tulaga, Samoa	Jamie Russell	0.03	28.03	0.01	0.0015861	0.22	1.00378	0.16	1.0152	1.012E-19	17	APR	2007	17	26	001	OSU4D06	Samoa	07C1594	01	FCT-3
07C1599	0.09 W	TUL-2 4D2-06	Groundmass 210-300μm	Tulaga, Samoa	Jamie Russell	0.09	28.03	0.01	0.0015861	0.22	1.00378	0.16	1.0151	1.012E-19	17	APR	2007	17	53	001	OSU4D06	Samoa	07C1594	01	FCT-3
07C1600	0.12 W	TUL-2 4D2-06	Groundmass 210-300μm	Tulaga, Samoa	Jamie Russell	0.12	28.03	0.01	0.0015861	0.22	1.00378	0.16	1.0151	1.012E-19	17	APR	2007	18	19	001	OSU4D06	Samoa	07C1594	01	FCT-3
07C1601	0.18 W	TUL-2 4D2-06	Groundmass 210-300μm	Tulaga, Samoa	Jamie Russell	0.18	28.03	0.01	0.0015861	0.22	1.00378	0.16	1.0149	1.012E-19	17	APR	2007	18	46	001	OSU4D06	Samoa	07C1594	01	FCT-3
07C1603	0.27 W	TUL-2 4D2-06	Groundmass 210-300μm	Tulaga, Samoa	Jamie Russell	0.27	28.03	0.01	0.0015861	0.22	1.00378	0.16	1.0147	1.012E-19	17	APR	2007	19	38	001	OSU4D06	Samoa	07C1594	01	FCT-3
07C1604	0.35 W	TUL-2 4D2-06	Groundmass 210-300μm	Tulaga, Samoa	Jamie Russell	0.35	28.03	0.01	0.0015861	0.22	1.00378	0.16	1.0146	1.012E-19	17	APR	2007	20	03	001	OSU4D06	Samoa	07C1594	01	FCT-3
07C1605	0.44 W	TUL-2 4D2-06	Groundmass 210-300μm	Tulaga, Samoa	Jamie Russell	0.44	28.03	0.01	0.0015861	0.22	1.00378	0.16	1.0147	1.012E-19	17	APR	2007	20	29	001	OSU4D06	Samoa	07C1594	01	FCT-3
07C1606	0.50 W	TUL-2 4D2-06	Groundmass 210-300μm	Tulaga, Samoa	Jamie Russell	0.5	28.03	0.01	0.0015861	0.22	1.00378	0.16	1.0146	1.012E-19	17	APR	2007	20	55	001	OSU4D06	Samoa	07C1594	01	FCT-3
07C1608	0.53 W	TUL-2 4D2-06	Groundmass 210-300μm	Tulaga, Samoa	Jamie Russell	0.53	28.03	0.01	0.0015861	0.22	1.00378	0.16	1.0143	1.012E-19	18	APR	2007	06	45	001	OSU4D06	Samoa	07C1594	01	FCT-3
07C1609	0.65 W	TUL-2 4D2-06	Groundmass 210-300μm	Tulaga, Samoa	Jamie Russell	0.65	28.03	0.01	0.0015861	0.22	1.00378	0.16	1.0145	1.012E-19	18	APR	2007	07	12	001	OSU4D06	Samoa	07C1594	01	FCT-3
07C1610	0.74 W	TUL-2 4D2-06	Groundmass 210-300μm	Tulaga, Samoa	Jamie Russell	0.74	28.03	0.01	0.0015861	0.22	1.00378	0.16	1.0145	1.012E-19	18	APR	2007	07	38	001	OSU4D06	Samoa	07C1594	01	FCT-3
07C1612	0.88 W	TUL-2 4D2-06	Groundmass 210-300μm	Tulaga, Samoa	Jamie Russell	0.88	28.03	0.01	0.0015861	0.22	1.00378	0.16	1.0144	1.012E-19	18	APR	2007	08	29	001	OSU4D06	Samoa	07C1594	01	FCT-3
07C1613	0.97 W	TUL-2 4D2-06	Groundmass 210-300μm	Tulaga, Samoa	Jamie Russell	0.97	28.03	0.01	0.0015861	0.22	1.00378	0.16	1.0143	1.012E-19	18	APR	2007	08	56	001	OSU4D06	Samoa	07C1594	01	FCT-3
07C1614	1.15 W	TUL-2 4D2-06	Groundmass 210-300μm	Tulaga, Samoa	Jamie Russell	1.15	28.03	0.01	0.0015861	0.22	1.00378	0.16	1.0144	1.012E-19	18	APR	2007	09	23	001	OSU4D06	Samoa	07C1594	01	FCT-3
07C1616	1.24 W	TUL-2 4D2-06	Groundmass 210-300μm	Tulaga, Samoa	Jamie Russell	1.24	28.03	0.01	0.0015861	0.22	1.00378	0.16	1.0145	1.012E-19	18	APR	2007	10	14	001	OSU4D06	Samoa	07C1594	01	FCT-3
07C1617	1.41 W	TUL-2 4D2-06	Groundmass 210-300μm	Tulaga, Samoa	Jamie Russell	1.41	28.03	0.01	0.0015861	0.22	1.00378	0.16	1.0145	1.012E-19	18	APR	2007	10	42	001	OSU4D06	Samoa	07C1594	01	FCT-3
07C1618	1.50 W	TUL-2 4D2-06	Groundmass 210-300μm	Tulaga, Samoa	Jamie Russell	1.5	28.03	0.01	0.0015861	0.22	1.00378	0.16	1.0145	1.012E-19	18	APR	2007	11	07	001	OSU4D06	Samoa	07C1594	01	FCT-3
07C1620	1.71 W	TUL-2 4D2-06	Groundmass 210-300μm	Tulaga, Samoa	Jamie Russell	1.71	28.03	0.01	0.0015861	0.22	1.00378	0.16	1.0145	1.012E-19	18	APR	2007	11	59	001	OSU4D06	Samoa	07C1594	01	FCT-3
07C1621	2.21 W	TUL-2 4D2-06	Groundmass 210-300μm	Tulaga, Samoa	Jamie Russell	2.21	28.03	0.01	0.0015861	0.22	1.00378	0.16	1.0145	1.012E-19	18	APR	2007	12	26	001	OSU4D06	Samoa	07C1594	01	FCT-3
07C1622	2.65 W	TUL-2 4D2-06	Groundmass 210-300μm	Tulaga, Samoa	Jamie Russell	2.65	28.03	0.01	0.0015861	0.22	1.00378	0.16	1.0147	1.012E-19	18	APR	2007	12	52	001	OSU4D06	Samoa	07C1594	01	FCT-3
07C1624	3.51 W	TUL-2 4D2-06	Groundmass 210-300μm	Tulaga, Samoa	Jamie Russell	3.51	28.03	0.01	0.0015861	0.22	1.00378	0.16	1.0149	1.012E-19	18	APR	2007	13	44	001	OSU4D06	Samoa	07C1594	01	FCT-3
07C1625	4.83 W	TUL-2 4D2-06	Groundmass 210-300μm	Tulaga, Samoa	Jamie Russell	4.83	28.03	0.01	0.0015861	0.22	1.00378	0.16	1.0151	1.012E-19	18	APR	2007	14	10	001	OSU4D06	Samoa	07C1594	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		
		%1σ		%1σ		%1σ		%1σ		%1σ		%1σ		%1σ		%1σ		%1σ		%1σ		%1σ		%1σ		%1σ	
07C1594	0.00 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
07C1595	0.01 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
07C1596	0.02 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
07C1598	0.03 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
07C1599	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
07C1600	0.12 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
07C1601	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
07C1603	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
07C1604	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
07C1605	0.44 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
07C1606	0.50 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
07C1608	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
07C1609	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
07C1610	0.74 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
07C1612	0.88 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
07C1613	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
07C1614	1.15 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
07C1616	1.24 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
07C1617	1.41 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
07C1618	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
07C1620	1.71 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
07C1621	2.21 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
07C1622	2.65 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
07C1624	3.51 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
07C1625	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

07C1594.AGE >>> TUL-2 4D2-06 >>> SAMOA PROJECT



Ar-Ages in Ma

WEIGHTED PLATEAU

0.92 ± 0.03

TOTAL FUSION

2.47 ± 0.18

NORMAL ISOCHRON

0.86 ± 0.09

INVERSE ISOCHRON

0.88 ± 0.08

MSWD (PROBABILITY)

0.76 (68%)

Sample Info

Groundmass 210-300µm

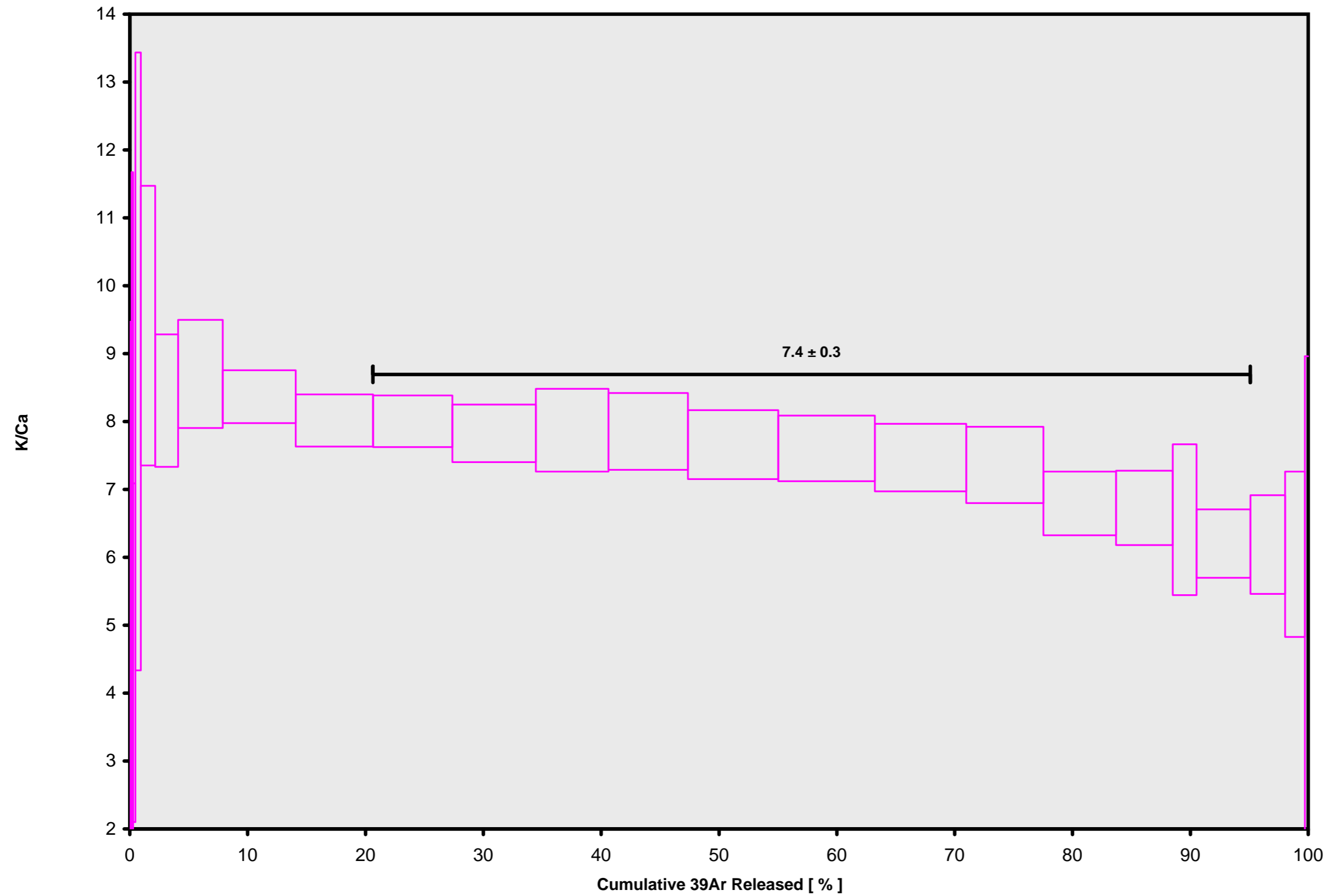
Tulaga, Samoa

Jamie Russell

IRR = OSU4D06

J = 0.00158610 ± 0.00000349

07C1594.AGE >>> TUL-2 4D2-06 >>> SAMOA PROJECT



Ar-Ages in Ma

WEIGHTED PLATEAU

0.92 ± 0.03

TOTAL FUSION

2.47 ± 0.18

NORMAL ISOCHRON

0.86 ± 0.09

INVERSE ISOCHRON

0.88 ± 0.08

Sample Info

Groundmass 210-300µm

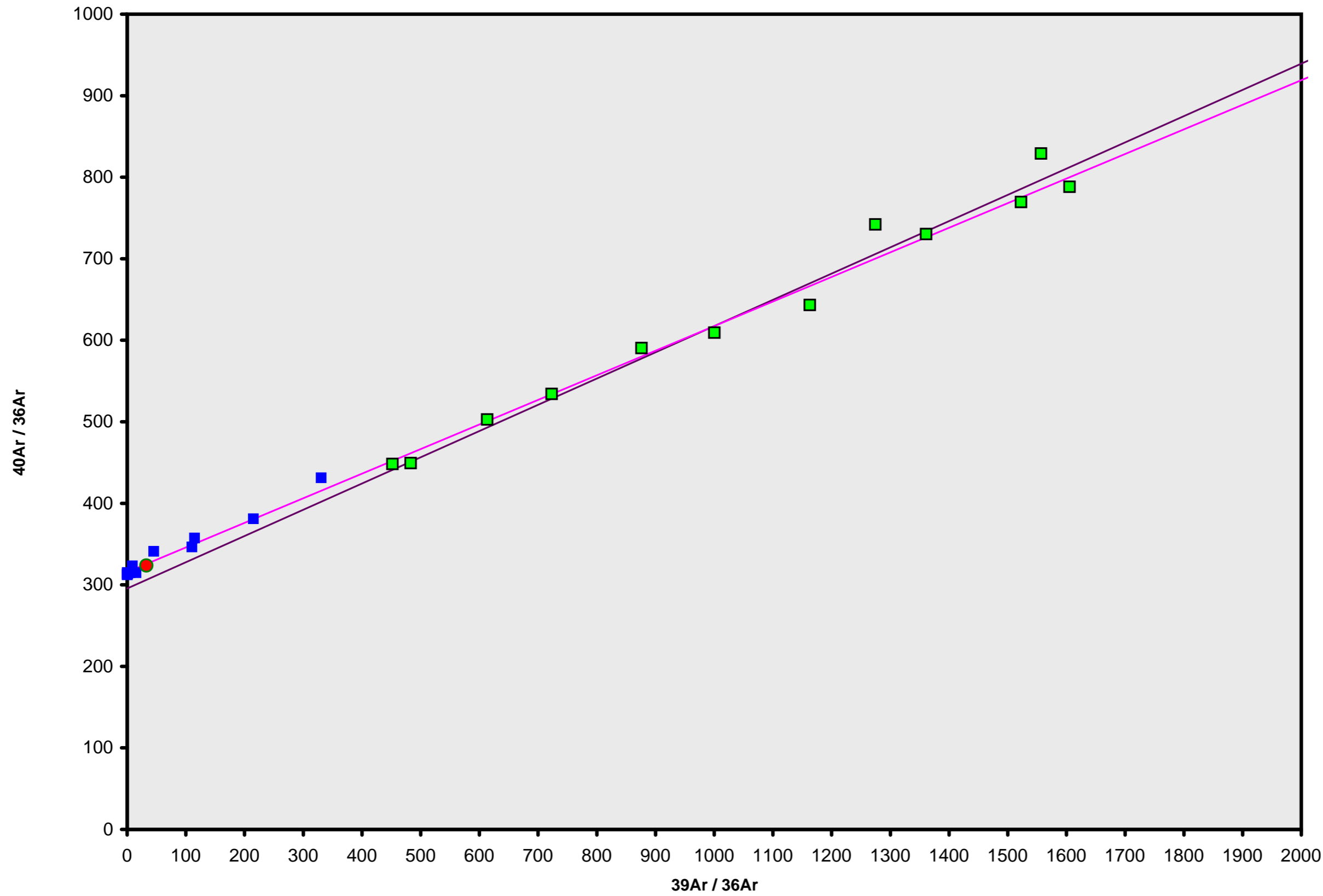
Tulaga, Samoa

Jamie Russell

IRR = OSU4D06

J = 0.00158610 ± 0.00000349

07C1594.AGE >>> TUL-2 4D2-06 >>> SAMOA PROJECT



Ar-Ages in Ma

WEIGHTED PLATEAU

0.92 ± 0.03

TOTAL FUSION

2.47 ± 0.18

NORMAL ISOCHRON

0.86 ± 0.09

INVERSE ISOCHRON

0.88 ± 0.08

MSWD (PROBABILITY)

0.61 (81%)

40AR/36AR INTERCEPT

315.8 ± 31.2

Sample Info

Groundmass 210-300 μ m

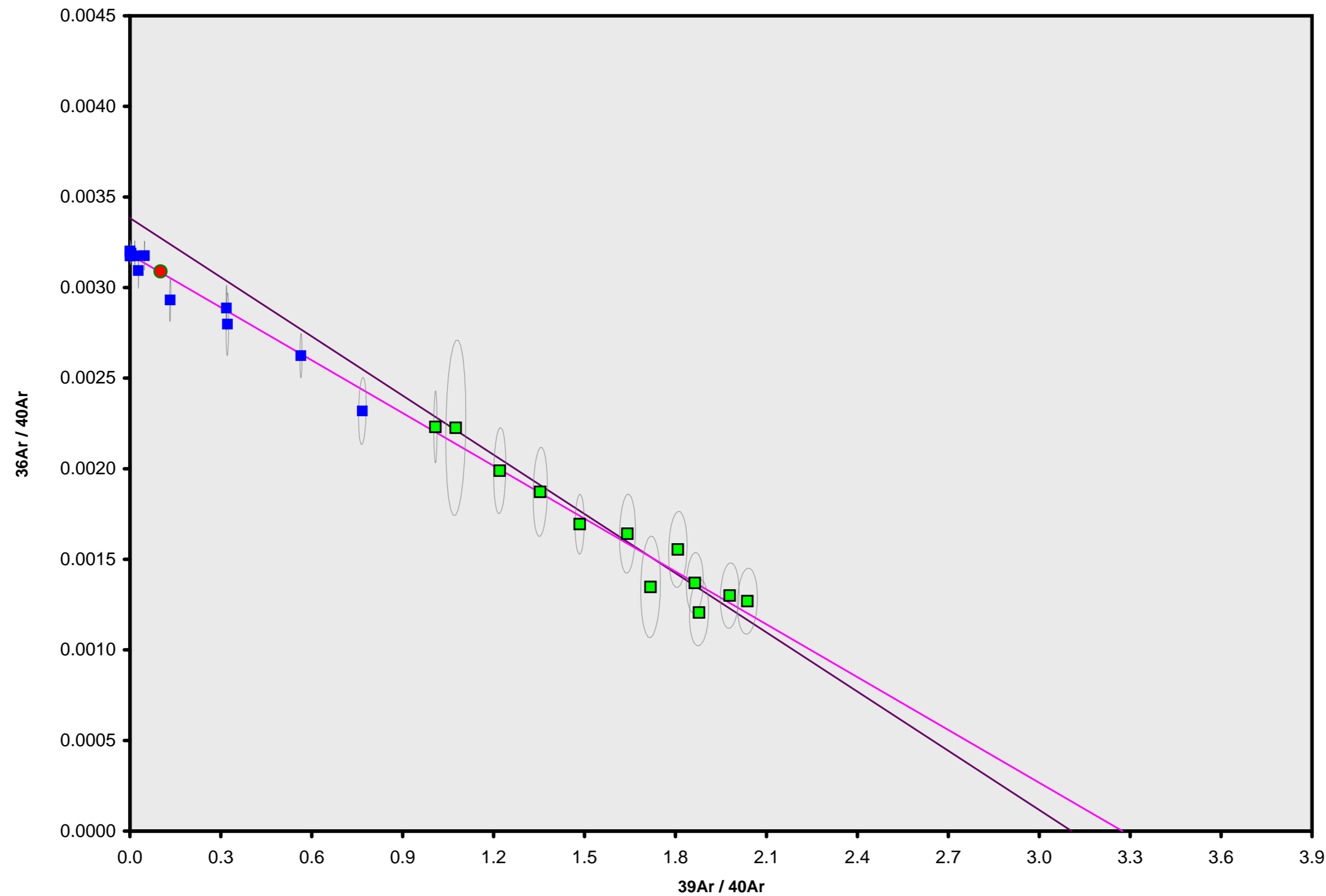
Tulaga, Samoa

Jamie Russell

IRR = OSU4D06

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07C1594.AGE >>> TUL-2 4D2-06 >>> SAMOA PROJECT



Ar-Ages in Ma

WEIGHTED PLATEAU

0.92 ± 0.03

TOTAL FUSION

2.47 ± 0.18

NORMAL ISOCHRON

0.86 ± 0.09

INVERSE ISOCHRON

0.88 ± 0.08

MSWD (PROBABILITY)

$0.67 (75\%)$

SPREADING FACTOR

31.4%

40AR/36AR INTERCEPT

314.3 ± 31.4

Sample Info

Groundmass 210-300 μm

Tulaga, Samoa

Jamie Russell

IRR = OSU4D06

$J = 0.00158610 \pm 0.00000349$