Incremental Heating			36Ar(a)	37Ar(ca)	38Ar(cl)	39Ar(k)	40Ar(r)	Age ± 2σ (Ma)	40Ar(r) (%)	39Ar(k) (%)	K/Ca ± 2σ
07C1972	0.00 W		0.011699	0.000611	0.000088	0.001309	0.065538	132.78 ± 91.88	1.86	0.18	0.921 ± 0.351
07C1973	0.01 W		0.017188	0.001018	0.000152	0.003588	0.106571	79.94 ± 54.35	2.06	0.48	1.516 ± 0.378
07C1974	0.02 W		0.015649	0.001661	0.000179	0.005503	0.134252	65.91 ± 31.62	2.82	0.74	1.425 ± 0.221
07C1975	0.09 W		0.011611	0.002420	0.000193	0.007144	0.146906	55.72 ± 17.28	4.11	0.96	1.269 ± 0.148
07C1977	0.12 W		0.005829	0.001821	0.000124	0.005639	0.082978	40.05 ± 11.32	4.60	0.76	1.332 ± 0.409
07C1978	0.18 W		0.004015	0.004635	0.000131	0.009883	0.078199	21.64 ± 5.71	6.18	1.33	0.917 ± 0.116
07C1979	0.24 W		0.002389	0.011046	0.000125	0.017393	0.062693	9.89 ± 2.16	8.15	2.34	0.677 ± 0.047
07C1981	0.27 W		0.000990	0.017618	0.000106	0.022028	0.035499	4.43 ± 0.90	10.82	2.97	0.538 ± 0.029
07C1982	0.35 W	✓	0.000472	0.027994	0.000064	0.029438	0.022950	2.14 ± 0.78	14.13	3.97	0.452 ± 0.022
07C1983	0.44 W	✓	0.000403	0.050328	0.000049	0.041742	0.023666	1.56 ± 0.40	16.56	5.63	0.357 ± 0.017
07C1985	0.56 W	✓	0.000311	0.093585	0.000029	0.066298	0.036577	1.52 ± 0.21	28.43	8.94	0.305 ± 0.014
07C1986	0.65 W	✓	0.000235	0.109849	0.000022	0.068587	0.034481	1.38 ± 0.21	33.17	9.25	0.268 ± 0.012
07C1987	0.80 W	✓	0.000183	0.121816	0.000027	0.074879	0.041760	1.53 ± 0.18	43.54	10.09	0.264 ± 0.013
07C1989	0.97 W	✓	0.000157	0.169162	0.000024	0.099652	0.052545	1.45 ± 0.12	53.05	13.43	0.253 ± 0.011
07C1990	1.24 W	✓	0.000144	0.157275	0.000029	0.090984	0.047309	1.43 ± 0.15	52.58	12.27	0.249 ± 0.011
07C1991	1.62 W	✓	0.000145	0.114872	0.000037	0.071995	0.033783	1.29 ± 0.17	43.97	9.71	0.270 ± 0.012
07C1993	2.21 W	✓	0.000180	0.147455	0.000082	0.064977	0.032181	1.36 ± 0.27	37.67	8.76	0.189 ± 0.009
07C1994	3.18 W	✓	0.000208	0.425191	0.000091	0.040236	0.019810	1.35 ± 0.39	24.36	5.42	0.041 ± 0.002
07C1995	3.80 W	✓	0.000174	0.398812	0.000045	0.013366	0.006900	1.42 ± 1.09	11.81	1.80	0.014 ± 0.001
07C1996	4.63 W		0.000227	0.341701	0.000034	0.007105	0.004685	1.81 ± 2.29	6.53	0.96	0.009 ± 0.000
		Σ	0.072209	2.198870	0.001632	0.741747	1.069282				

Information on Analysis

Sample = SOS-2 4D12-06
Material = Groundmass 210-300µm
Location = Soso, Samoa
Analyst = Jamie Russell
Project = SAMOA
Mass Discrimination Law = LIN
Irradiation = OSU4D06
J = 0.00152180 ± 0.00000487
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	0.5215 ± 0.0229	1.43 ± 0.06	0.92	89.27	0.023 ± 0.023
	± 4.39%	± 4.43%	52%	11	
	Minimal External Error	± 0.07	1.45	2σ Confidence Limit	
	Analytical Error	± 0.06	1.0000	Error Magnification	
Total Fusion Age	1.4416 ± 0.1691	3.96 ± 0.46		20	0.145 ± 0.006
	± 11.73%	± 11.73%			
	Minimal External Error	± 0.47			
	Analytical Error	± 0.46			

Normal Isochron			39(k)/36(a) ± 2σ	40(a+r)/36(a) ± 2σ	r.i.
07C1972	0.00 W		0.1 ± 0.0	301.1 ± 4.1	0.2276
07C1973	0.01 W		0.2 ± 0.0	301.7 ± 4.4	0.5333
07C1974	0.02 W		0.4 ± 0.0	304.1 ± 4.3	0.5740
07C1975	0.09 W		0.6 ± 0.0	308.2 ± 4.1	0.7109
07C1977	0.12 W		1.0 ± 0.0	309.7 ± 4.3	0.7928
07C1978	0.18 W		2.5 ± 0.0	315.0 ± 5.5	0.9499
07C1979	0.24 W		7.3 ± 0.1	321.7 ± 6.2	0.9564
07C1981	0.27 W		22.3 ± 0.6	331.4 ± 8.1	0.9773
07C1982	0.35 W	✓	62.4 ± 3.8	344.1 ± 20.7	0.9959
07C1983	0.44 W	✓	103.5 ± 5.3	354.2 ± 18.1	0.9929
07C1985	0.56 W	✓	213.0 ± 11.7	413.0 ± 22.7	0.9946
07C1986	0.65 W	✓	292.2 ± 22.0	442.4 ± 33.2	0.9970
07C1987	0.80 W	✓	409.5 ± 37.4	523.9 ± 47.9	0.9982
07C1989	0.97 W	✓	635.5 ± 59.7	630.6 ± 59.2	0.9974
07C1990	1.24 W	✓	632.3 ± 73.4	624.3 ± 72.5	0.9986
07C1991	1.62 W	✓	495.6 ± 50.7	528.1 ± 54.1	0.9972
07C1993	2.21 W	✓	361.3 ± 43.8	474.4 ± 57.5	0.9985
07C1994	3.18 W	✓	193.5 ± 18.0	390.7 ± 36.3	0.9976
07C1995	3.80 W	✓	76.7 ± 7.9	335.1 ± 34.4	0.9965
07C1996	4.63 W		31.3 ± 2.8	316.1 ± 27.9	0.9941

Results	40(a)/36(a) ± 2σ	40(r)/39(k) ± 2σ	Age ± 2σ (Ma)	MSWD
Normal Isochron	305.1543 ± 12.0474 ± 3.95%	0.4923 ± 0.0403 ± 8.18%	1.35 ± 0.11 ± 8.21%	0.73 68%
			Minimal External Error ± 0.11	
			Analytical Error ± 0.11	

Statistics				
	2σ Confidence Limit	1.94	Convergence	0.0000034003
	Error Magnification	1.0000	Number of Iterations	14
	Number of Data Points	11	Calculated Line	Weighted York-2

Inverse Isochron			39(k)/40(a+r) ± 2σ	36(a)/40(a+r) ± 2σ	r.i.
07C1972	0.00 W		0.000372 ± 0.000021	0.003321 ± 0.000045	0.0021
07C1973	0.01 W		0.000692 ± 0.000016	0.003315 ± 0.000048	0.0053
07C1974	0.02 W		0.001157 ± 0.000023	0.003289 ± 0.000047	0.0164
07C1975	0.09 W		0.001997 ± 0.000026	0.003245 ± 0.000044	0.0146
07C1977	0.12 W		0.003123 ± 0.000032	0.003229 ± 0.000044	0.0209
07C1978	0.18 W		0.007816 ± 0.000044	0.003175 ± 0.000056	0.0491
07C1979	0.24 W		0.022625 ± 0.000131	0.003108 ± 0.000060	0.0845
07C1981	0.27 W		0.067153 ± 0.000354	0.003018 ± 0.000074	0.0544
07C1982	0.35 W	✓	0.181305 ± 0.000991	0.002906 ± 0.000175	0.0255
07C1983	0.44 W	✓	0.292242 ± 0.001785	0.002823 ± 0.000144	0.0432
07C1985	0.56 W	✓	0.515752 ± 0.002934	0.002421 ± 0.000133	0.0327
07C1986	0.65 W	✓	0.660444 ± 0.003867	0.002260 ± 0.000170	0.0334
07C1987	0.80 W	✓	0.781720 ± 0.004338	0.001909 ± 0.000174	0.0299
07C1989	0.97 W	✓	1.007763 ± 0.006836	0.001586 ± 0.000149	0.0335
07C1990	1.24 W	✓	1.012825 ± 0.006115	0.001602 ± 0.000186	0.0290
07C1991	1.62 W	✓	0.938576 ± 0.007191	0.001894 ± 0.000194	0.0517
07C1993	2.21 W	✓	0.761463 ± 0.004977	0.002108 ± 0.000256	0.0217
07C1994	3.18 W	✓	0.495085 ± 0.003212	0.002559 ± 0.000238	0.0423
07C1995	3.80 W	✓	0.228900 ± 0.001975	0.002984 ± 0.000306	0.0517
07C1996	4.63 W		0.099025 ± 0.000948	0.003163 ± 0.000279	0.0435

Results	40(a)/36(a) ± 2σ	40(r)/39(k) ± 2σ	Age ± 2σ (Ma)	MSWD
Inverse Isochron	305.0778 ± 11.9851 ± 3.93%	0.4959 ± 0.0394 ± 7.95%	1.36 ± 0.11 ± 7.97%	0.72 70%
		Minimal External Error	± 0.11	
		Analytical Error	± 0.11	

Statistics				
	2σ Confidence Limit	1.94	Convergence	0.0000354526
	Error Magnification	1.0000	Number of Iterations	3
	Number of Data Points	11	Calculated Line	Weighted York-2
	Spreading Factor	41.2%		

Relative Abundances			36Ar	%1σ	37Ar	%1σ	38Ar	%1σ	39Ar	%1σ	40Ar	%1σ	Age ± 2σ (Ma)	40Ar(r) (%)	39Ar(k) (%)	K/Ca ± 2σ
07C1972	0.00 W		0.0116991	0.675	0.0006111	18.703	0.0022906	0.732	0.0013094	2.873	3.5225800	0.065	132.78 ± 91.88	1.86	0.18	0.921 ± 0.351
07C1973	0.01 W		0.0171888	0.726	0.0010175	12.261	0.0034083	0.498	0.0035887	1.144	5.1857664	0.067	79.94 ± 54.35	2.06	0.48	1.516 ± 0.378
07C1974	0.02 W		0.0156494	0.700	0.0016609	7.413	0.0031704	0.472	0.0055047	0.981	4.7585101	0.107	65.91 ± 31.62	2.82	0.74	1.425 ± 0.221
07C1975	0.09 W		0.0116113	0.668	0.0024203	5.421	0.0024501	0.584	0.0071457	0.652	3.5778507	0.080	55.72 ± 17.28	4.11	0.96	1.269 ± 0.148
07C1977	0.12 W		0.0058297	0.682	0.0018208	15.202	0.0012822	1.032	0.0056406	0.513	1.8055139	0.086	40.05 ± 11.32	4.60	0.76	1.332 ± 0.409
07C1978	0.18 W		0.0040158	0.867	0.0046351	5.980	0.0010012	1.056	0.0098865	0.261	1.2645009	0.110	21.64 ± 5.71	6.18	1.33	0.917 ± 0.116
07C1979	0.24 W		0.0023924	0.956	0.0110460	2.852	0.0007828	1.132	0.0174008	0.245	0.7687922	0.154	9.89 ± 2.16	8.15	2.34	0.677 ± 0.047
07C1981	0.27 W		0.0009947	1.215	0.0176175	1.725	0.0005587	1.369	0.0220405	0.228	0.3280661	0.133	4.43 ± 0.90	10.82	2.97	0.538 ± 0.029
07C1982	0.35 W	✓	0.0004793	2.955	0.0279940	1.409	0.0005097	2.243	0.0294576	0.232	0.1624150	0.145	2.14 ± 0.78	14.13	3.97	0.452 ± 0.022
07C1983	0.44 W	✓	0.0004168	2.465	0.0503285	1.175	0.0006314	2.088	0.0417775	0.244	0.1429017	0.183	1.56 ± 0.40	16.56	5.63	0.357 ± 0.017
07C1985	0.56 W	✓	0.0003364	2.535	0.0935854	1.037	0.0008935	1.707	0.0663642	0.235	0.1286553	0.158	1.52 ± 0.21	28.43	8.94	0.305 ± 0.014
07C1986	0.65 W	✓	0.0002643	3.330	0.1098490	1.048	0.0008996	1.650	0.0686645	0.221	0.1039624	0.190	1.38 ± 0.21	33.17	9.25	0.268 ± 0.012
07C1987	0.80 W	✓	0.0002156	3.865	0.1218165	1.304	0.0009716	1.305	0.0749651	0.197	0.0959107	0.192	1.53 ± 0.18	43.54	10.09	0.264 ± 0.013
07C1989	0.97 W	✓	0.0002023	3.625	0.1691619	1.011	0.0012657	1.029	0.0997724	0.248	0.0990492	0.227	1.45 ± 0.12	53.05	13.43	0.253 ± 0.011
07C1990	1.24 W	✓	0.0001862	4.481	0.1572751	0.747	0.0011630	1.059	0.0910957	0.201	0.0899822	0.221	1.43 ± 0.15	52.58	12.27	0.249 ± 0.011
07C1991	1.62 W	✓	0.0001762	4.211	0.1148719	0.906	0.0009396	1.236	0.0720768	0.213	0.0768258	0.315	1.29 ± 0.17	43.97	9.71	0.270 ± 0.012
07C1993	2.21 W	✓	0.0002196	4.960	0.1474555	1.090	0.0009069	1.210	0.0650814	0.252	0.0854387	0.205	1.36 ± 0.27	37.67	8.76	0.189 ± 0.009
07C1994	3.18 W	✓	0.0003224	2.980	0.4251906	0.786	0.0006307	1.864	0.0405371	0.201	0.0813367	0.252	1.35 ± 0.39	24.36	5.42	0.041 ± 0.002
07C1995	3.80 W	✓	0.0002816	3.144	0.3988120	0.918	0.0002522	3.871	0.0136493	0.259	0.0584166	0.338	1.42 ± 1.09	11.81	1.80	0.014 ± 0.001
07C1996	4.63 W		0.0003189	3.122	0.3417009	0.792	0.0001729	5.261	0.0073472	0.352	0.0717604	0.303	1.81 ± 2.29	6.53	0.96	0.009 ± 0.000
		Σ	0.0728008	0.289	2.1988704	0.307	0.0241811	0.235	0.7433056	0.068	22.4082348	0.034				

Information on Analysis and Constants Used in Calculations

Sample = SOS-2 4D12-06
Material = Groundmass 210-300µm
Location = Soso, Samoa
Analyst = Jamie Russell
Project = SAMOA
Mass Discrimination Law = LIN
Irradiation = OSU4D06
J = 0.00152180 ± 0.00000487
FCT-3 = 28.030 ± 0.003 Ma
IGSN = KOP000045
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 = 13°46.1'S - 170°14.5'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
Decay Constant 36Cl = 2.236 ± 0.045 E-06 1/a
Production Ratio 36/38 in Cl = 316.0 ± 15.8

Results

Results	40(r)/39(k) ± 2σ	Age ± 2σ (Ma)	MSWD	39Ar(k) (%,n)	K/Ca ± 2σ
Age Plateau	0.5215 ± 0.0229 ± 4.39%	1.43 ± 0.06 ± 4.43%	0.92	89.27	0.023 ± 0.023
			52%	11	
	Minimal External Error ± 0.07		1.45	2σ Confidence Limit	
	Analytical Error ± 0.06		1.0000	Error Magnification	
Total Fusion Age	1.4416 ± 0.1691 ± 11.73%	3.96 ± 0.46 ± 11.73%		20	0.145 ± 0.006
	Minimal External Error ± 0.47				
	Analytical Error ± 0.46				
Normal Isochron	0.4923 ± 0.0403 ± 8.18%	1.35 ± 0.11 ± 8.21%	0.73	89.27	
			68%	11	
	Minimal External Error ± 0.11		1.94	2σ Confidence Limit	
	Analytical Error ± 0.11		1.0000	Error Magnification	
Inverse Isochron	0.4959 ± 0.0394 ± 7.95%	1.36 ± 0.11 ± 7.97%	0.72	89.27	
			70%	11	
	Minimal External Error ± 0.11		1.94	2σ Confidence Limit	
	Analytical Error ± 0.11		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
07C1972	0.00 W		0.011699	0.67	0.000000	0.00	0.000000	18.71	0.000000	25.91	0.000611	18.70	0.002187	0.67	0.000000	0.00	0.000016	2.88	0.000000	28.80	0.000088	26.47	0.001309	2.87	0.000000	18.79	0.065538	35.77	3.457039	0.67	0.000000	0.00	0.000002	25.07
07C1973	0.01 W		0.017188	0.73	0.000000	0.00	0.000000	12.27	0.000000	19.69	0.001018	12.26	0.003213	0.73	0.000000	0.00	0.000043	1.15	0.000000	25.10	0.000152	20.41	0.003588	1.14	0.000001	12.40	0.106571	34.73	5.079189	0.73	0.000000	0.00	0.000006	24.93
07C1974	0.02 W		0.015649	0.70	0.000000	0.00	0.000000	7.42	0.000000	15.17	0.001661	7.41	0.002925	0.70	0.000000	0.00	0.000067	0.99	0.000000	23.12	0.000179	16.09	0.005503	0.98	0.000001	7.64	0.134252	24.41	4.624249	0.70	0.000000	0.00	0.000009	24.92
07C1975	0.09 W		0.011611	0.67	0.000000	0.00	0.000001	5.43	0.000000	11.83	0.002420	5.42	0.002170	0.67	0.000000	0.00	0.000087	0.66	0.000000	22.56	0.000193	13.00	0.007144	0.65	0.000002	5.72	0.146906	15.73	3.430933	0.67	0.000000	0.00	0.000012	24.91
07C1977	0.12 W		0.005829	0.68	0.000000	0.00	0.000000	15.21	0.000000	13.35	0.001821	15.20	0.001089	0.68	0.000000	0.00	0.000068	0.52	0.000000	26.66	0.000124	14.39	0.005639	0.51	0.000001	15.31	0.082978	14.28	1.722527	0.68	0.000000	0.00	0.000009	24.91
07C1978	0.18 W		0.004015	0.87	0.000000	0.00	0.000001	5.99	0.000000	10.90	0.004635	5.98	0.000750	0.87	0.000000	0.00	0.000120	0.28	0.000000	22.70	0.000131	12.16	0.009883	0.26	0.000003	6.25	0.078199	13.27	1.186285	0.87	0.000000	0.00	0.000016	24.90
07C1979	0.24 W		0.002389	0.96	0.000000	0.00	0.000003	2.88	0.000000	9.54	0.011046	2.85	0.000447	0.96	0.000000	0.00	0.000211	0.26	0.000000	22.08	0.000125	10.95	0.017393	0.25	0.000008	3.39	0.062693	10.94	0.706070	0.96	0.000000	0.00	0.000029	24.90
07C1981	0.27 W		0.000990	1.22	0.000000	0.00	0.000005	1.76	0.000000	9.25	0.017618	1.73	0.000185	1.22	0.000000	0.00	0.000267	0.25	0.000001	21.97	0.000106	10.71	0.022028	0.23	0.000012	2.52	0.035499	10.14	0.292531	1.22	0.000000	0.00	0.000036	24.90
07C1982	0.35 W	✓	0.000472	3.00	0.000000	0.00	0.000008	1.46	0.000000	19.13	0.027994	1.41	0.000088	3.00	0.000000	0.00	0.000356	0.25	0.000001	21.95	0.000064	19.88	0.029438	0.23	0.000020	2.31	0.022950	18.27	0.139417	3.00	0.000000	0.00	0.000049	24.90
07C1983	0.44 W	✓	0.000403	2.55	0.000000	0.00	0.000014	1.23	0.000000	27.92	0.050328	1.18	0.000075	2.55	0.000000	0.00	0.000505	0.26	0.000002	21.93	0.000049	28.43	0.041742	0.24	0.000036	2.17	0.023666	12.88	0.119167	2.55	0.000000	0.00	0.000069	24.90
07C1985	0.56 W	✓	0.000311	2.74	0.000000	0.00	0.000025	1.10	0.000000	52.85	0.093585	1.04	0.000058	2.74	0.000000	0.00	0.000803	0.26	0.000003	21.92	0.000029	53.13	0.066298	0.24	0.000066	2.10	0.036577	6.92	0.091969	2.74	0.000000	0.00	0.000109	24.90
07C1986	0.65 W	✓	0.000235	3.75	0.000000	0.00	0.000030	1.11	0.000000	69.97	0.109849	1.05	0.000044	3.75	0.000000	0.00	0.000831	0.24	0.000004	21.93	0.000022	70.18	0.068587	0.22	0.000078	2.11	0.034481	7.57	0.069368	3.75	0.000000	0.00	0.000113	24.90
07C1987	0.80 W	✓	0.000183	4.56	0.000000	0.00	0.000033	1.36	0.000000	48.78	0.121816	1.30	0.000034	4.56	0.000000	0.00	0.000907	0.22	0.000004	21.94	0.000027	49.08	0.074879	0.20	0.000086	2.25	0.041760	5.92	0.054027	4.56	0.000000	0.00	0.000124	24.90
07C1989	0.97 W	✓	0.000157	4.69	0.000000	0.00	0.000046	1.08	0.000000	56.13	0.169162	1.01	0.000029	4.69	0.000000	0.00	0.001207	0.27	0.000005	21.92	0.000024	56.39	0.099652	0.25	0.000120	2.09	0.052545	4.16	0.046340	4.69	0.000000	0.00	0.000164	24.90
07C1990	1.24 W	✓	0.000144	5.80	0.000000	0.00	0.000042	0.83	0.000000	43.77	0.157275	0.75	0.000027	5.80	0.000000	0.00	0.001102	0.22	0.000005	21.91	0.000029	44.10	0.090984	0.20	0.000112	1.98	0.047309	5.23	0.042523	5.80	0.000000	0.00	0.000150	24.90
07C1991	1.62 W	✓	0.000145	5.11	0.000000	0.00	0.000031	0.98	0.000000	32.67	0.114872	0.91	0.000027	5.11	0.000000	0.00	0.000872	0.24	0.000004	21.92	0.000037	33.11	0.071995	0.21	0.000081	2.04	0.033783	6.53	0.042924	5.11	0.000000	0.00	0.000119	24.90
07C1993	2.21 W	✓	0.000180	6.06	0.000000	0.00	0.000040	1.15	0.000000	14.97	0.147455	1.09	0.000034	6.06	0.000000	0.00	0.000787	0.27	0.000005	21.93	0.000082	15.91	0.064977	0.25	0.000105	2.13	0.032181	10.02	0.053150	6.06	0.000000	0.00	0.000107	24.90
07C1994	3.18 W	✓	0.000208	4.64	0.000000	0.00	0.000114	0.87	0.000000	14.57	0.425191	0.79	0.000039	4.64	0.000000	0.00	0.000487	0.23	0.000014	21.91	0.000091	15.53	0.040236	0.20	0.000301	1.99	0.019810	14.44	0.061460	4.64	0.000000	0.00	0.000066	24.90
07C1995	3.80 W	✓	0.000174	5.12	0.000000	0.00	0.000107	0.99	0.000000	23.53	0.398812	0.92	0.000033	5.12	0.000000	0.00	0.000162	0.29	0.000013	21.92	0.000045	24.14	0.013366	0.27	0.000283	2.05	0.006900	38.29	0.051495	5.12	0.000000	0.00	0.000022	24.90
07C1996	4.63 W		0.000227	4.40	0.000000	0.00	0.000092	0.87	0.000000	29.11	0.341701	0.79	0.000042	4.40	0.000000	0.00	0.000086	0.38	0.000011	21.91	0.000034	29.60	0.007105	0.37	0.000242	1.99	0.004685	63.16	0.067064	4.40	0.000000	0.00	0.000012	24.90
		Σ	0.072209	0.29	0.000000	0.00	0.000591	0.33	0.000000	4.50	2.198870	0.31	0.013496	0.29	0.000000	0.00	0.008983	0.07	0.000070	7.62	0.001632	4.73	0.741747	0.07	0.001559	0.71	1.069282	5.86	21.337729	0.29	0.000000	0.00	0.001224	7.34
		Σ							0.072801	0.29	2.198870	0.31									0.024181	0.36			0.743306	0.07							22.408235	0.39

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)
07C1972	0.00 W		50.067707	17.96543	3.522578	0.00227	2690.167933	77.30772	0.466672	0.08831	8.934544	0.26368	141.125	16.28051484	1.00099716	1.162E-17
07C1973	0.01 W		29.702326	10.32226	5.185760	0.00345	1445.030938	16.56026	0.283536	0.03492	4.789709	0.06489	141.142	16.28609865	1.00099728	1.711E-17
07C1974	0.02 W		24.393909	5.95838	4.758501	0.00510	864.450595	8.53243	0.301729	0.02256	2.842934	0.03426	141.160	16.29190786	1.00099741	1.570E-17
07C1975	0.09 W		20.563414	3.23810	3.577839	0.00288	500.696885	3.28681	0.338707	0.01849	1.624927	0.01517	141.180	16.29816624	1.00099754	1.181E-17
07C1977	0.12 W		14.714186	2.10233	1.805505	0.00156	320.092057	1.66450	0.322803	0.04910	1.033526	0.00882	141.613	16.43803873	1.00100060	5.958E-18
07C1978	0.18 W		7.912379	1.05054	1.264485	0.00139	127.902324	0.36248	0.468836	0.02806	0.406190	0.00368	141.631	16.44390213	1.00100073	4.173E-18
07C1979	0.24 W		3.604515	0.39442	0.768763	0.00118	44.181495	0.12786	0.634797	0.01817	0.137489	0.00136	141.649	16.44976762	1.00100086	2.537E-18
07C1981	0.27 W		1.611544	0.16339	0.328030	0.00044	14.884669	0.03920	0.799325	0.01391	0.045131	0.00056	141.685	16.46150488	1.00100111	1.083E-18
07C1982	0.35 W	✓	0.779599	0.14245	0.162366	0.00024	5.513509	0.01505	0.950312	0.01357	0.016272	0.00048	141.703	16.46760252	1.00100124	5.360E-19
07C1983	0.44 W	✓	0.566968	0.07303	0.142833	0.00026	3.420544	0.01043	1.204679	0.01446	0.009977	0.00025	141.722	16.47347647	1.00100137	4.716E-19
07C1985	0.56 W	✓	0.551703	0.03817	0.128546	0.00021	1.938626	0.00549	1.410180	0.01500	0.005069	0.00013	141.759	16.48568289	1.00100163	4.246E-19
07C1986	0.65 W	✓	0.502735	0.03808	0.103849	0.00020	1.514063	0.00441	1.599792	0.01713	0.003849	0.00013	141.777	16.49156328	1.00100176	3.431E-19
07C1987	0.80 W	✓	0.557697	0.03304	0.095787	0.00019	1.279404	0.00352	1.624976	0.02143	0.002876	0.00011	141.796	16.49767207	1.00100189	3.165E-19
07C1989	0.97 W	✓	0.527279	0.02196	0.098885	0.00023	0.992752	0.00334	1.695478	0.01765	0.002028	0.00007	141.832	16.50944350	1.00100215	3.269E-19
07C1990	1.24 W	✓	0.519971	0.02724	0.089832	0.00020	0.987777	0.00295	1.726483	0.01336	0.002044	0.00009	141.850	16.51533237	1.00100228	2.969E-19
07C1991	1.62 W	✓	0.469239	0.03068	0.076707	0.00024	1.065887	0.00406	1.593743	0.01483	0.002444	0.00010	141.872	16.52258309	1.00100243	2.535E-19
07C1993	2.21 W	✓	0.495271	0.04966	0.085332	0.00018	1.312799	0.00426	2.265709	0.02535	0.003374	0.00017	141.908	16.53437230	1.00100269	2.819E-19
07C1994	3.18 W	✓	0.492345	0.07112	0.081270	0.00021	2.006473	0.00647	10.488918	0.08507	0.007953	0.00024	141.926	16.54027006	1.00100282	2.684E-19
07C1995	3.80 W	✓	0.516211	0.19765	0.058395	0.00020	4.279836	0.01821	29.218592	0.27877	0.020628	0.00065	141.944	16.54616993	1.00100294	1.928E-19
07C1996	4.63 W		0.659389	0.41649	0.071749	0.00022	9.767083	0.04539	46.507858	0.40323	0.043401	0.00136	141.963	16.55207189	1.00100307	2.368E-19

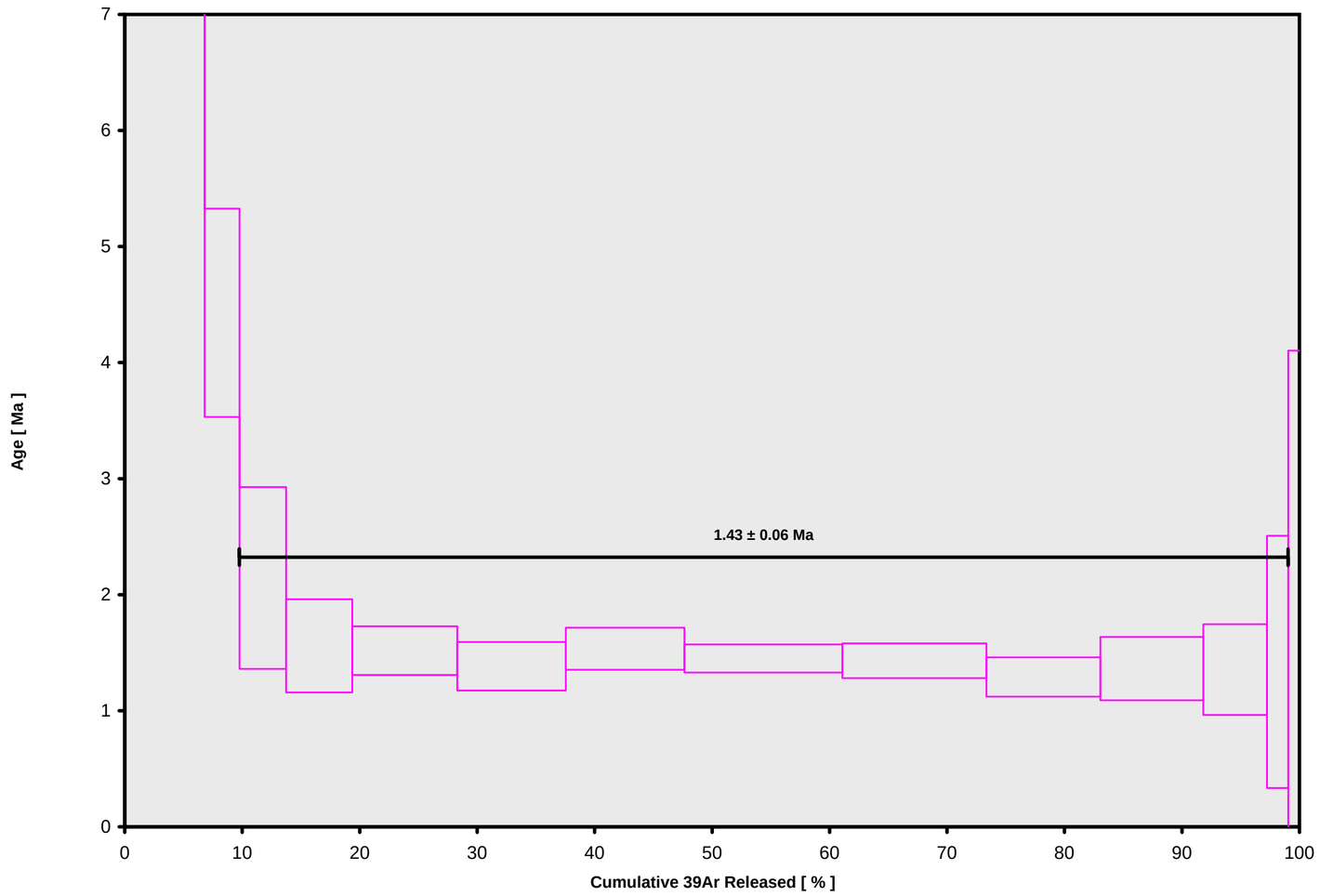
Procedure Blanks		36Ar	1σ	37Ar	1σ	38Ar	1σ	39Ar	1σ	40Ar	1σ
07C1972	0.00 W	0.000076	0.000009	0.000019	0.000005	0.000001	0.000005	0.000044	0.000034	0.020911	0.002070
07C1973	0.01 W	0.000070	0.000009	0.000014	0.000005	0.000001	0.000005	0.000044	0.000034	0.018038	0.002097
07C1974	0.02 W	0.000062	0.000009	0.000008	0.000005	0.000001	0.000005	0.000044	0.000034	0.013749	0.002126
07C1975	0.09 W	0.000050	0.000009	0.000008	0.000005	0.000001	0.000005	0.000044	0.000034	0.007370	0.002159
07C1977	0.12 W	0.000040	0.000007	0.000023	0.000016	0.000014	0.000006	0.000058	0.000015	0.009186	0.000188
07C1978	0.18 W	0.000039	0.000007	0.000025	0.000016	0.000014	0.000006	0.000067	0.000015	0.009524	0.000186
07C1979	0.24 W	0.000038	0.000007	0.000027	0.000016	0.000014	0.000006	0.000073	0.000015	0.009734	0.000184
07C1981	0.27 W	0.000036	0.000007	0.000029	0.000016	0.000014	0.000006	0.000080	0.000015	0.009881	0.000180
07C1982	0.35 W	0.000036	0.000007	0.000029	0.000016	0.000014	0.000006	0.000081	0.000015	0.009866	0.000178
07C1983	0.44 W	0.000036	0.000007	0.000029	0.000015	0.000014	0.000006	0.000082	0.000014	0.009821	0.000177
07C1985	0.56 W	0.000036	0.000006	0.000028	0.000015	0.000013	0.000006	0.000080	0.000014	0.009709	0.000174
07C1986	0.65 W	0.000037	0.000006	0.000028	0.000015	0.000013	0.000006	0.000079	0.000014	0.009674	0.000173
07C1987	0.80 W	0.000037	0.000006	0.000027	0.000015	0.000012	0.000006	0.000077	0.000014	0.009667	0.000173
07C1989	0.97 W	0.000039	0.000006	0.000025	0.000015	0.000011	0.000006	0.000073	0.000014	0.009763	0.000172
07C1990	1.24 W	0.000039	0.000006	0.000023	0.000015	0.000011	0.000006	0.000071	0.000014	0.009871	0.000171
07C1991	1.62 W	0.000040	0.000006	0.000022	0.000015	0.000010	0.000006	0.000069	0.000014	0.010061	0.000171
07C1993	2.21 W	0.000041	0.000006	0.000020	0.000015	0.000010	0.000006	0.000066	0.000014	0.010480	0.000172
07C1994	3.18 W	0.000041	0.000006	0.000019	0.000015	0.000010	0.000006	0.000065	0.000014	0.010726	0.000172
07C1995	3.80 W	0.000041	0.000006	0.000018	0.000015	0.000010	0.000006	0.000064	0.000014	0.010982	0.000173
07C1996	4.63 W	0.000041	0.000006	0.000018	0.000015	0.000010	0.000006	0.000064	0.000014	0.011232	0.000174

Intercept Values		36Ar	1σ	r2		37Ar	1σ	r2		38Ar	1σ	r2		39Ar	1σ	r2		40Ar	1σ	r2	
07C1972	0.00 W	0.011755	0.000026	0.9788	LIN # 1	0.000056	0.000005	0.9887	LIN #	0.002271	0.000014	0.5078	LIN #	0.001335	0.000016	0.9999	LIN #	3.485287	0.000925	0.9994	EXP #
07C1973	0.01 W	0.017233	0.000060	0.9606	LIN # 1	0.000076	0.000006	0.9926	LIN #	0.003379	0.000012	0.4645	LIN #	0.003583	0.000022	0.9999	LIN #	5.118832	0.002696	0.9982	EXP #
07C1974	0.02 W	0.015686	0.000046	0.9704	LIN # 1	0.000109	0.000006	0.9919	LIN #	0.003143	0.000010	0.4726	LIN # 1	0.005472	0.000041	0.9997	LIN #	4.693872	0.004556	0.9937	EXP #
07C1975	0.09 W	0.011642	0.000023	0.9827	LIN # 1	0.000156	0.000006	0.9850	LIN #	0.002429	0.000011	0.3481	LIN #	0.007091	0.000029	0.9997	LIN #	3.526331	0.001872	0.9982	LIN #
07C1977	0.12 W	0.005865	0.000013	0.9631	LIN # 8	0.000133	0.000004	0.9582	LIN #	0.001285	0.000011	0.0507	LIN #	0.005626	0.000023	0.9991	LIN #	1.786473	0.001524	0.9928	LIN #
07C1978	0.18 W	0.004050	0.000023	0.7801	LIN #	0.000305	0.000005	0.8925	LIN #	0.001007	0.000008	0.0325	LIN #	0.009823	0.000013	0.9993	EXP #	1.253961	0.001360	0.9912	LIN #
07C1979	0.24 W	0.002427	0.000016	0.7531	LIN #	0.000695	0.000010	0.2104	LIN #	0.000790	0.000006	0.2742	LIN #	0.017244	0.000028	0.9800	EXP #	0.766190	0.001151	0.9840	EXP #
07C1981	0.27 W	0.001029	0.000008	0.5204	LIN #	0.001093	0.000007	0.6547	LIN #	0.000568	0.000004	0.6906	LIN # 2	0.021826	0.000032	0.9194	LIN #	0.332527	0.000390	0.9860	EXP #
07C1982	0.35 W	0.000514	0.000012	0.0003	LIN #	0.001720	0.000015	0.2036	LIN #	0.000519	0.000009	0.0421	LIN #	0.029140	0.000047	0.9626	LIN #	0.169484	0.000150	0.5928	LIN # 1
07C1983	0.44 W	0.000452	0.000008	0.0343	LIN #	0.003068	0.000026	0.8593	LIN # 1	0.000639	0.000011	0.3104	LIN #	0.041290	0.000074	0.9783	LIN # 1	0.150229	0.000190	0.0127	LIN # 2
07C1985	0.56 W	0.000372	0.000005	0.0019	LIN #	0.005676	0.000044	0.8817	LIN # 1	0.000899	0.000013	0.2502	LIN #	0.065554	0.000112	0.9825	LIN #	0.136131	0.000103	0.5000	LIN # 7
07C1986	0.65 W	0.000300	0.000006	0.0862	LIN #	0.006654	0.000054	0.8478	LIN # 1	0.000904	0.000013	0.1586	LIN #	0.067815	0.000102	0.9844	EXP #	0.111792	0.000092	0.9752	EXP #
07C1987	0.80 W	0.000252	0.000005	0.2454	LIN #	0.007371	0.000083	0.7327	LIN # 1 2	0.000975	0.000010	0.4465	LIN #	0.074014	0.000084	0.9933	LIN #	0.103843	0.000063	0.9850	EXP #
07C1989	0.97 W	0.000240	0.000004	0.6540	LIN #	0.010217	0.000080	0.6555	LIN # 1	0.001265	0.000011	0.3083	LIN #	0.098478	0.000186	0.9705	EXP #	0.107025	0.000143	0.9736	EXP #
07C1990	1.24 W	0.000225	0.000005	0.1177	LIN #	0.009497	0.000036	0.9720	LIN # 1	0.001163	0.000010	0.6479	LIN #	0.089927	0.000108	0.9927	EXP #	0.098223	0.000099	0.9797	LIN # 1
07C1991	1.62 W	0.000215	0.000004	0.0719	LIN #	0.006937	0.000043	0.8673	LIN # 1	0.000941	0.000009	0.3562	LIN #	0.071157	0.000099	0.9899	EXP # 1	0.085459	0.000169	0.9771	EXP #
07C1993	2.21 W	0.000259	0.000009	0.0244	LIN #	0.008892	0.000078	0.8358	LIN # 1	0.000909	0.000008	0.5612	LIN #	0.064261	0.000124	0.9797	EXP #	0.094353	0.000032	0.9945	LIN #
07C1994	3.18 W	0.000362	0.000007	0.0392	LIN #	0.025592	0.000122	0.9441	LIN # 1	0.000635	0.000010	0.0583	LIN #	0.040050	0.000047	0.9924	EXP # 1	0.090560	0.000109	0.9646	LIN #
07C1995	3.80 W	0.000322	0.000006	0.1103	LIN #	0.023999	0.000161	0.8897	LIN # 1	0.000260	0.000007	0.0065	LIN #	0.013528	0.000024	0.3485	LIN # 1	0.068272	0.000093	0.9888	EXP #
07C1996	4.63 W	0.000359	0.000007	0.0042	LIN #	0.020557	0.000099	0.9363	LIN #	0.000181	0.000006	0.0092	LIN #	0.007310	0.000018	0.9471	LIN #	0.081646	0.000129	0.9151	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
07C1972	0.00 W	SOS-2 4D12-06	Groundmass 210-300µm	Soso, Samoa	Jamie Russell	0	28.03	0.01	0.0015218	0.32	1.00378	0.16	1.0167	3.300E-18	11	MAY	2007	19	00	001	OSU4D06	Samoa	07C1972	01	FCT-3
07C1973	0.01 W	SOS-2 4D12-06	Groundmass 210-300µm	Soso, Samoa	Jamie Russell	0.01	28.03	0.01	0.0015218	0.32	1.00378	0.16	1.0166	3.300E-18	11	MAY	2007	19	25	001	OSU4D06	Samoa	07C1972	01	FCT-3
07C1974	0.02 W	SOS-2 4D12-06	Groundmass 210-300µm	Soso, Samoa	Jamie Russell	0.02	28.03	0.01	0.0015218	0.32	1.00378	0.16	1.0167	3.300E-18	11	MAY	2007	19	51	001	OSU4D06	Samoa	07C1972	01	FCT-3
07C1975	0.09 W	SOS-2 4D12-06	Groundmass 210-300µm	Soso, Samoa	Jamie Russell	0.09	28.03	0.01	0.0015218	0.32	1.00378	0.16	1.0167	3.300E-18	11	MAY	2007	20	19	001	OSU4D06	Samoa	07C1972	01	FCT-3
07C1977	0.12 W	SOS-2 4D12-06	Groundmass 210-300µm	Soso, Samoa	Jamie Russell	0.12	28.03	0.01	0.0015218	0.32	1.00378	0.16	1.0158	3.300E-18	12	MAY	2007	06	42	001	OSU4D06	Samoa	07C1972	01	FCT-3
07C1978	0.18 W	SOS-2 4D12-06	Groundmass 210-300µm	Soso, Samoa	Jamie Russell	0.18	28.03	0.01	0.0015218	0.32	1.00378	0.16	1.016	3.300E-18	12	MAY	2007	07	08	001	OSU4D06	Samoa	07C1972	01	FCT-3
07C1979	0.24 W	SOS-2 4D12-06	Groundmass 210-300µm	Soso, Samoa	Jamie Russell	0.24	28.03	0.01	0.0015218	0.32	1.00378	0.16	1.0161	3.300E-18	12	MAY	2007	07	34	001	OSU4D06	Samoa	07C1972	01	FCT-3
07C1981	0.27 W	SOS-2 4D12-06	Groundmass 210-300µm	Soso, Samoa	Jamie Russell	0.27	28.03	0.01	0.0015218	0.32	1.00378	0.16	1.0163	3.300E-18	12	MAY	2007	08	26	001	OSU4D06	Samoa	07C1972	01	FCT-3
07C1982	0.35 W	SOS-2 4D12-06	Groundmass 210-300µm	Soso, Samoa	Jamie Russell	0.35	28.03	0.01	0.0015218	0.32	1.00378	0.16	1.0165	3.300E-18	12	MAY	2007	08	53	001	OSU4D06	Samoa	07C1972	01	FCT-3
07C1983	0.44 W	SOS-2 4D12-06	Groundmass 210-300µm	Soso, Samoa	Jamie Russell	0.44	28.03	0.01	0.0015218	0.32	1.00378	0.16	1.0166	3.300E-18	12	MAY	2007	09	19	001	OSU4D06	Samoa	07C1972	01	FCT-3
07C1985	0.56 W	SOS-2 4D12-06	Groundmass 210-300µm	Soso, Samoa	Jamie Russell	0.56	28.03	0.01	0.0015218	0.32	1.00378	0.16	1.0164	3.300E-18	12	MAY	2007	10	13	001	OSU4D06	Samoa	07C1972	01	FCT-3
07C1986	0.65 W	SOS-2 4D12-06	Groundmass 210-300µm	Soso, Samoa	Jamie Russell	0.65	28.03	0.01	0.0015218	0.32	1.00378	0.16	1.0165	3.300E-18	12	MAY	2007	10	39	001	OSU4D06	Samoa	07C1972	01	FCT-3
07C1987	0.80 W	SOS-2 4D12-06	Groundmass 210-300µm	Soso, Samoa	Jamie Russell	0.8	28.03	0.01	0.0015218	0.32	1.00378	0.16	1.0167	3.300E-18	12	MAY	2007	11	06	001	OSU4D06	Samoa	07C1972	01	FCT-3
07C1989	0.97 W	SOS-2 4D12-06	Groundmass 210-300µm	Soso, Samoa	Jamie Russell	0.97	28.03	0.01	0.0015218	0.32	1.00378	0.16	1.0167	3.300E-18	12	MAY	2007	11	58	001	OSU4D06	Samoa	07C1972	01	FCT-3
07C1990	1.24 W	SOS-2 4D12-06	Groundmass 210-300µm	Soso, Samoa	Jamie Russell	1.24	28.03	0.01	0.0015218	0.32	1.00378	0.16	1.0166	3.300E-18	12	MAY	2007	12	24	001	OSU4D06	Samoa	07C1972	01	FCT-3
07C1991	1.62 W	SOS-2 4D12-06	Groundmass 210-300µm	Soso, Samoa	Jamie Russell	1.62	28.03	0.01	0.0015218	0.32	1.00378	0.16	1.0167	3.300E-18	12	MAY	2007	12	56	001	OSU4D06	Samoa	07C1972	01	FCT-3
07C1993	2.21 W	SOS-2 4D12-06	Groundmass 210-300µm	Soso, Samoa	Jamie Russell	2.21	28.03	0.01	0.0015218	0.32	1.00378	0.16	1.0166	3.300E-18	12	MAY	2007	13	48	001	OSU4D06	Samoa	07C1972	01	FCT-3
07C1994	3.18 W	SOS-2 4D12-06	Groundmass 210-300µm	Soso, Samoa	Jamie Russell	3.18	28.03	0.01	0.0015218	0.32	1.00378	0.16	1.0166	3.300E-18	12	MAY	2007	14	14	001	OSU4D06	Samoa	07C1972	01	FCT-3
07C1995	3.80 W	SOS-2 4D12-06	Groundmass 210-300µm	Soso, Samoa	Jamie Russell	3.8	28.03	0.01	0.0015218	0.32	1.00378	0.16	1.0165	3.300E-18	12	MAY	2007	14	40	001	OSU4D06	Samoa	07C1972	01	FCT-3
07C1996	4.63 W	SOS-2 4D12-06	Groundmass 210-300µm	Soso, Samoa	Jamie Russell	4.63	28.03	0.01	0.0015218	0.32	1.00378	0.16	1.0165	3.300E-18	12	MAY	2007	15	06	001	OSU4D06	Samoa	07C1972	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
07C1972	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
07C1973	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
07C1974	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
07C1975	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
07C1977	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
07C1978	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
07C1979	0.24 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
07C1981	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
07C1982	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
07C1983	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
07C1985	0.56 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
07C1986	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
07C1987	0.80 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
07C1989	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
07C1990	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
07C1991	1.62 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
07C1993	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
07C1994	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
07C1995	3.80 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
07C1996	4.63 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

07C1972.AGE >>> SOS-2 4D12-06 >>> SAMOA PROJECT



Ar-Ages in Ma

WEIGHTED PLATEAU
1.43 ± 0.06
TOTAL FUSION
3.96 ± 0.46
NORMAL ISOCHRON
1.35 ± 0.11
INVERSE ISOCHRON
1.36 ± 0.11

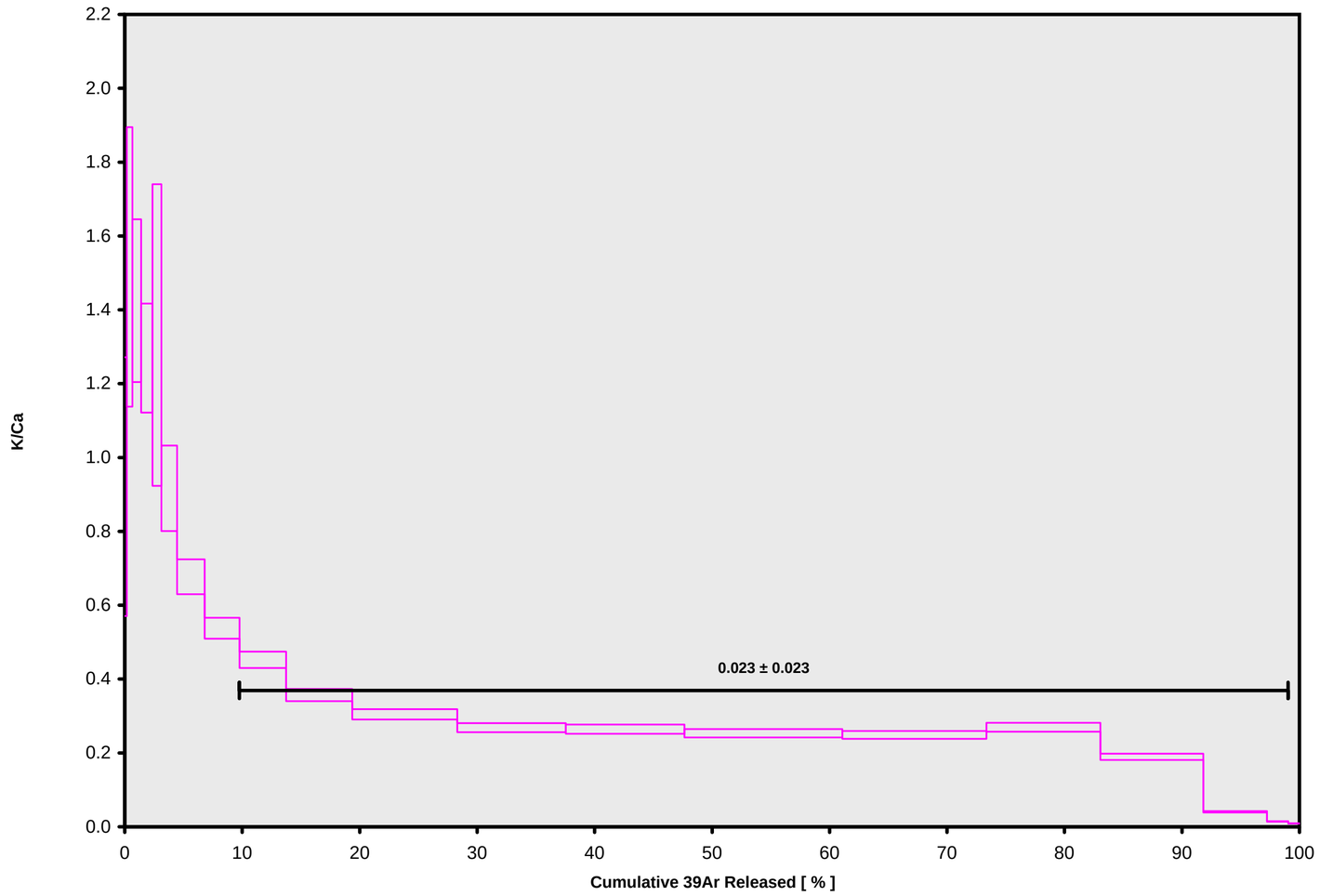
MSWD (PROBABILITY)
0.92 (52%)

Sample Info

Groundmass 210-300µm
Soso, Samoa
Jamie Russell

IRR = OSU4D06
J = 0.00152180 ± 0.00000487

07C1972.AGE >>> SOS-2 4D12-06 >>> SAMOA PROJECT



Ar-Ages in Ma

WEIGHTED PLATEAU
1.43 ± 0.06
TOTAL FUSION
3.96 ± 0.46
NORMAL ISOCHRON
1.35 ± 0.11
INVERSE ISOCHRON
1.36 ± 0.11

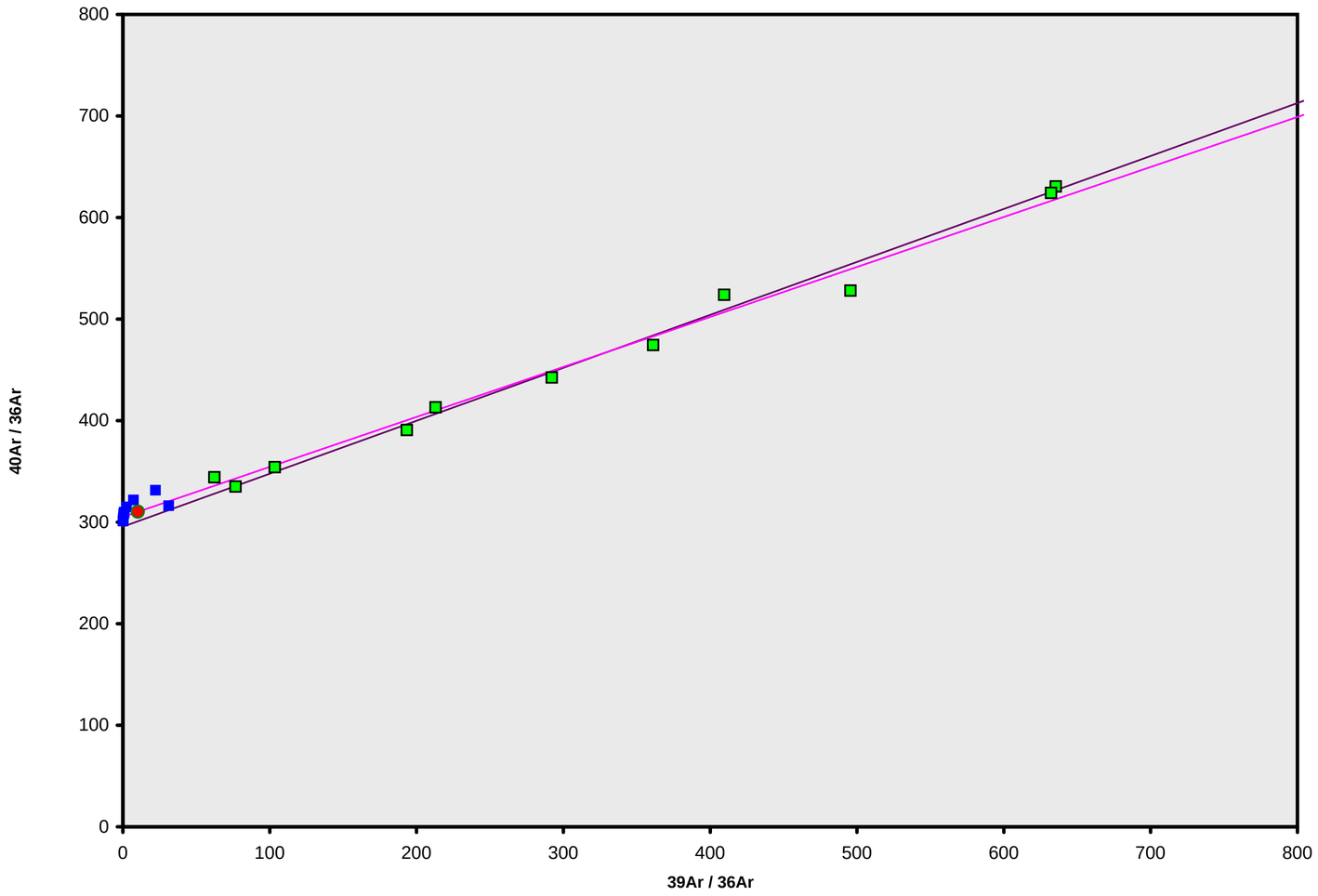
Sample Info

Groundmass 210-300µm
Soso, Samoa
Jamie Russell

IRR = OSU4D06
J = 0.00152180 ± 0.00000487

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

07C1972.AGE >>> SOS-2 4D12-06 >>> SAMOA PROJECT



Ar-Ages in Ma

WEIGHTED PLATEAU
1.43 ± 0.06
TOTAL FUSION
3.96 ± 0.46
NORMAL ISOCHRON
1.35 ± 0.11
INVERSE ISOCHRON
1.36 ± 0.11

MSWD (PROBABILITY)
0.73 (68%)

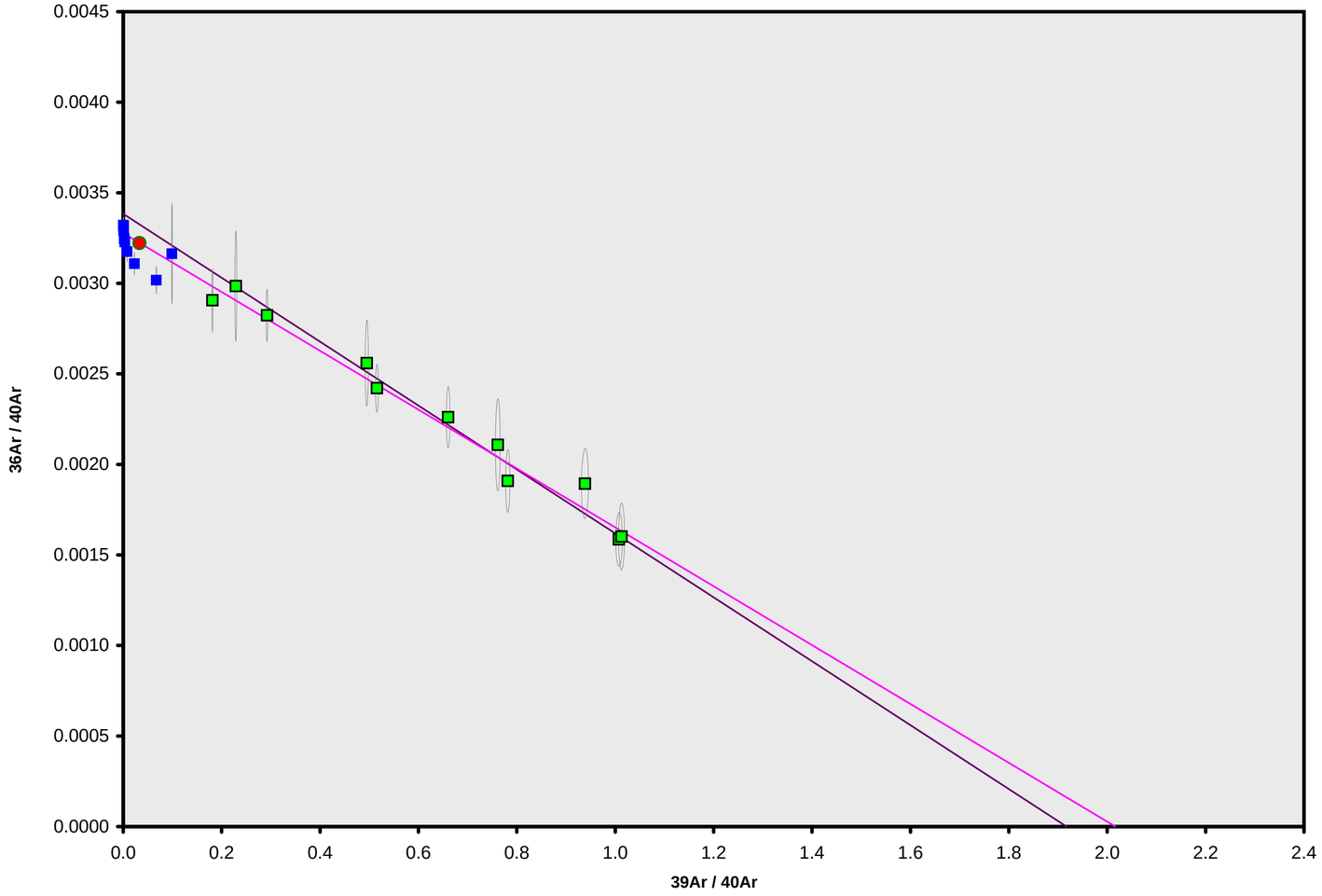
40AR/36AR INTERCEPT
305.2 ± 12.0

Sample Info

Groundmass 210-300µm
Soso, Samoa
Jamie Russell

IRR = OSU4D06
J = 0.00152180 ± 0.00000487

07C1972.AGE >>> SOS-2 4D12-06 >>> SAMOA PROJECT



Ar-Ages in Ma

WEIGHTED PLATEAU
1.43 ± 0.06
TOTAL FUSION
3.96 ± 0.46
NORMAL ISOCHRON
1.35 ± 0.11
INVERSE ISOCHRON
1.36 ± 0.11

MSWD (PROBABILITY)
0.72 (70%)

SPREADING FACTOR
41.2%

40AR/36AR INTERCEPT
305.1 ± 12.0

Sample Info

Groundmass 210-300µm
Soso, Samoa
Jamie Russell

IRR = OSU4D06
J = 0.00152180 ± 0.00000487