

Incremental Heating		36Ar(a)	37Ar(ca)	38Ar(cl)	39Ar(k)	40Ar(r)	Age ± 2σ (Ma)	40Ar(r) (%)	39Ar(k) (%)	K/Ca ± 2σ
07C1287	0.00 W	0.060523	0.007496	0.000411	0.006832	0.138430	59.94 ± 122.44	0.77	1.60	0.392 ± 0.036
07C1288	0.01 W	0.024064	0.002930	0.000642	0.005105	0.331308	185.37 ± 62.30	4.45	1.19	0.749 ± 0.125
07C1289	0.09 W	0.013013	0.003247	0.001287	0.012575	0.148379	35.15 ± 16.00	3.72	2.94	1.665 ± 0.339
07C1291	0.18 W	0.004040	0.004768	0.001616	0.016894	0.063781	11.32 ± 5.83	5.07	3.95	1.523 ± 0.203
07C1292	0.21 W	0.001025	0.004577	0.001586	0.017947	0.021675	3.63 ± 2.63	6.68	4.20	1.686 ± 0.190
07C1293	0.29 W ✓	0.000273	0.004711	0.001632	0.020645	0.006445	0.94 ± 1.76	7.40	4.83	1.884 ± 0.212
07C1294	0.47 W ✓	0.000116	0.005875	0.001626	0.025923	0.010617	1.23 ± 1.42	23.61	6.06	1.897 ± 0.260
07C1296	0.65 W ✓	0.000079	0.008261	0.001135	0.037521	0.010321	0.83 ± 0.97	30.49	8.78	1.953 ± 0.210
07C1297	0.97 W ✓	0.000083	0.013567	0.000913	0.044984	0.005980	0.40 ± 0.80	19.55	10.52	1.426 ± 0.077
07C1298	1.36 W ✓	0.000100	0.065255	0.001751	0.070513	0.014672	0.63 ± 0.54	33.18	16.49	0.465 ± 0.025
07C1299	1.97 W ✓	0.000146	0.261370	0.002497	0.076881	0.012464	0.49 ± 0.48	22.31	17.98	0.126 ± 0.006
07C1302	2.65 W ✓	0.000118	0.402651	0.001542	0.046867	0.005081	0.33 ± 0.36	12.66	10.96	0.050 ± 0.002
07C1303	3.55 W ✓	0.000106	0.478405	0.000978	0.030990	0.005149	0.50 ± 0.66	14.14	7.25	0.028 ± 0.001
07C1305	4.51 W ✓	0.000104	0.493749	0.000369	0.013864	0.001906	0.41 ± 1.01	5.85	3.24	0.012 ± 0.001
Σ		0.103790	1.756862	0.017986	0.427538	0.776209				

Information on Analysis

Sample = OFU-2 3E9-06
Material = Groundmass 125-300 μm
Location = Ofu, Samoa
Analyst = John Huard
Project = SAMOA
Mass Discrimination Law = LIN
Irradiation = OSU3E06
J = 0.00166320 ± 0.00000482
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	0.1606 ± 0.0704 ± 43.83%	0.48 ± 0.21 ± 43.83%	0.37 93%	86.12 9	0.017 ± 0.013
	Minimal External Error ± 0.21	Analytical Error ± 0.21	1.0000	2σ Confidence Limit	Error Magnification
Total Fusion Age	1.8155 ± 0.7519 ± 41.42%	5.45 ± 2.25 ± 41.36%		14	0.105 ± 0.004
	Minimal External Error ± 2.26	Analytical Error ± 2.25			

Normal Isochron		39(k)/36(a) ± 2σ	40(a+r)/36(a) ± 2σ	r.i.
07C1287	0.00 W	0.1 ± 0.0	297.8 ± 4.8	0.8332
07C1288	0.01 W	0.2 ± 0.0	309.3 ± 5.1	0.9092
07C1289	0.09 W	1.0 ± 0.0	306.9 ± 5.4	0.7605
07C1291	0.18 W	4.2 ± 0.1	311.3 ± 8.6	0.8944
07C1292	0.21 W	17.5 ± 0.8	316.7 ± 16.2	0.8909
07C1293	0.29 W ✓	75.6 ± 9.5	319.1 ± 46.9	0.8495
07C1294	0.47 W ✓	223.3 ± 66.9	386.9 ± 129.4	0.8944
07C1296	0.65 W ✓	472.4 ± 203.1	425.5 ± 201.4	0.9078
07C1297	0.97 W ✓	541.8 ± 217.5	367.5 ± 168.2	0.8771
07C1298	1.36 W ✓	707.9 ± 258.5	442.8 ± 175.1	0.9232
07C1299	1.97 W ✓	524.9 ± 124.8	380.6 ± 101.4	0.8917
07C1302	2.65 W ✓	396.1 ± 63.3	338.4 ± 54.0	0.9968
07C1303	3.55 W ✓	293.4 ± 64.0	344.3 ± 75.1	0.9992
07C1305	4.51 W ✓	133.6 ± 20.3	313.9 ± 47.6	0.9987

Results	40(a)/36(a) ± 2σ	40(r)/39(k) ± 2σ	Age ± 2σ (Ma)	MSWD
Normal Isochron	304.8422 ± 40.8413 ± 13.40%	0.1261 ± 0.1325 ± 105.06%	0.38 ± 0.40 ± 105.05%	0.35 93%
		Minimal External Error ± 0.40		
		Analytical Error ± 0.40		
Statistics	2σ Confidence Limit Error Magnification Number of Data Points	2.07 1.0000 9	Convergence Number of Iterations Calculated Line	0.000005090 7 Weighted York-2

Inverse Isochron		39(k)/40(a+r) ± 2σ	36(a)/40(a+r) ± 2σ	r.i.
07C1287	0.00 W	0.000379 ± 0.000004	0.003358 ± 0.000054	0.0192
07C1288	0.01 W	0.000686 ± 0.000005	0.003233 ± 0.000053	0.0107
07C1289	0.09 W	0.003149 ± 0.000047	0.003258 ± 0.000058	0.0117
07C1291	0.18 W	0.013434 ± 0.000178	0.003212 ± 0.000088	0.0789
07C1292	0.21 W	0.055319 ± 0.001296	0.003158 ± 0.000162	0.3559
07C1293	0.29 W ✓	0.237011 ± 0.018372	0.003134 ± 0.000460	0.5201
07C1294	0.47 W ✓	0.576991 ± 0.086330	0.002584 ± 0.000865	0.4449
07C1296	0.65 W ✓	1.110436 ± 0.220426	0.002350 ± 0.001112	0.4188
07C1297	0.97 W ✓	1.474174 ± 0.324027	0.002721 ± 0.001245	0.4797
07C1298	1.36 W ✓	1.598692 ± 0.243062	0.002258 ± 0.000893	0.3841
07C1299	1.97 W ✓	1.379117 ± 0.166265	0.002627 ± 0.000700	0.4504
07C1302	2.65 W ✓	1.170433 ± 0.014965	0.002955 ± 0.000471	0.0107
07C1303	3.55 W ✓	0.852361 ± 0.007281	0.002905 ± 0.000634	0.0094
07C1305	4.51 W ✓	0.425654 ± 0.003264	0.003186 ± 0.000483	0.0103

Results	40(a)/36(a) ± 2σ	40(r)/39(k) ± 2σ	Age ± 2σ (Ma)	MSWD
Inverse Isochron	305.2021 ± 40.5181 ± 13.28%	0.1371 ± 0.0975 ± 71.12%	0.41 ± 0.29 ± 71.12%	0.41 89%
		Minimal External Error ± 0.29		
		Analytical Error ± 0.29		
Statistics	2σ Confidence Limit Error Magnification Number of Data Points Spreading Factor	2.07 1.0000 9 18.7%	Convergence Number of Iterations Calculated Line	0.0154126455 5 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
07C1287	0.00 W	0.0605254	0.799	0.0074959	4.080	0.0118056	0.581	0.0068369	0.518	18.0231142	0.090	59.94 ± 122.44	0.77	1.60	0.392 ± 0.036
07C1288	0.01 W	0.0240649	0.821	0.0029300	8.081	0.0052018	0.583	0.0051067	0.371	7.4422475	0.058	185.37 ± 62.30	4.45	1.19	0.749 ± 0.125
07C1289	0.09 W	0.0130134	0.882	0.0032471	9.966	0.0038714	0.579	0.0125770	0.744	3.9936127	0.088	35.15 ± 16.00	3.72	2.94	1.665 ± 0.339
07C1291	0.18 W	0.0040410	1.350	0.0047682	6.342	0.0025761	1.162	0.0168970	0.607	1.2575521	0.269	11.32 ± 5.83	5.07	3.95	1.523 ± 0.203
07C1292	0.21 W	0.0010258	2.344	0.0045769	5.252	0.0019947	1.049	0.0179500	0.551	0.3244513	1.034	3.63 ± 2.63	6.68	4.20	1.686 ± 0.190
07C1293	0.29 W ✓	0.0002742	6.228	0.0047115	5.248	0.0019334	1.080	0.0206484	0.462	0.0871399	3.847	0.94 ± 1.76	7.40	4.83	1.884 ± 0.212
07C1294	0.47 W ✓	0.0001177	14.768	0.0058745	6.529	0.0019617	1.313	0.0259271	0.548	0.0449706	7.454	1.23 ± 1.42	23.61	6.06	1.897 ± 0.260
07C1296	0.65 W ✓	0.0000816	20.902	0.0082611	4.982	0.0016049	1.067	0.0375264	0.383	0.0338509	9.900	0.83 ± 0.97	30.49	8.78	1.953 ± 0.210
07C1297	0.97 W ✓	0.0000867	19.225	0.0135674	1.773	0.0014742	0.978	0.0449932	0.417	0.0305887	10.955	0.40 ± 0.80	19.55	10.52	1.426 ± 0.077
07C1298	1.36 W ✓	0.0001172	15.520	0.0652547	1.720	0.0026257	1.161	0.0705594	0.221	0.0442231	7.578	0.63 ± 0.54	33.18	16.49	0.465 ± 0.025
07C1299	1.97 W ✓	0.0002168	8.022	0.2613700	0.861	0.0034639	0.791	0.0770666	0.428	0.0558736	5.999	0.49 ± 0.48	22.31	17.98	0.126 ± 0.006
07C1302	2.65 W ✓	0.0002266	4.134	0.4026507	0.894	0.0021443	1.391	0.0471522	0.592	0.0401196	0.228	0.33 ± 0.36	12.66	10.96	0.050 ± 0.002
07C1303	3.55 W ✓	0.0002343	4.891	0.4784050	0.824	0.0013879	0.974	0.0313291	0.368	0.0364089	0.206	0.50 ± 0.66	14.14	7.25	0.028 ± 0.001
07C1305	4.51 W ✓	0.0002366	3.291	0.4937495	0.731	0.0005723	2.103	0.0142138	0.330	0.0325933	0.172	0.41 ± 1.01	5.85	3.24	0.012 ± 0.001
Σ		0.1042622	0.518	1.7568625	0.397	0.0426179	0.257	0.4287838	0.136	31.4467463	0.062				

Information on Analysis and Constants Used in Calculations

Sample = OFU-2 3E9-06
 Material = Groundmass 125-300 μm
 Location = Ofu, Samoa
 Analyst = John Huard
 Project = SAMOA
 Mass Discrimination Law = LIN
 Irradiation = OSU3E06
 J = 0.00166320 ± 0.00000482
 FCT-3 = 28.030 ± 0.003 Ma
 IGSN = KOP000032
 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 = Basanite
 Lat-Lon = 14°10.3'S - 169°40.0'E

Age Equations = Conventional
 Negative Intensities = Allowed
 Decay Constant 40K = 5.530 ± 0.048 E-10 1/a
 Decay Constant 39Ar = 2.940 ± 0.016 E-07 1/h
 Decay Constant 37Ar = 8.230 ± 0.012 E-04 1/h
 No 36Cl Correction

Results

	40(r)/39(k) ± 2σ	Age ± 2σ (Ma)	MSWD	39Ar(k) (%n)	K/Ca ± 2σ
Age Plateau	0.1606 ± 0.0704 ± 43.83%	0.48 ± 0.21 ± 43.83%	0.37 93%	86.12 9	0.017 ± 0.013
	Minimal External Error ± 0.21 Analytical Error ± 0.21		1.500	2σ Confidence Limit Error Magnification	
Total Fusion Age	1.8155 ± 0.7519 ± 41.42%	5.45 ± 2.25 ± 41.36%		14	0.105 ± 0.004
	Minimal External Error ± 2.26 Analytical Error ± 2.25				
Normal Isochron	0.1261 ± 0.1325 ± 105.06%	0.38 ± 0.40 ± 105.05%	0.35 93%	86.12 9	
	Minimal External Error ± 0.40 Analytical Error ± 0.40		2.07 1.0000	2σ Confidence Limit Error Magnification	
Inverse Isochron	0.1371 ± 0.0975 ± 71.12%	0.41 ± 0.29 ± 71.12%	0.41 89%	86.12 9	
	Minimal External Error ± 0.29 Analytical Error ± 0.29		2.07 1.0000	2σ Confidence Limit 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
07C1287	0.00 W	0.060523	0.80	0.000000	0.00	0.000002	4.10	0.000000	0.00	0.007496	4.08	0.011312	0.80	0.000000	0.00	0.000083	0.53	0.000000	22.28	0.000411	27.61	0.006832	0.52	0.000005	4.47	0.138430	103.84	17.884673	0.80	0.000000	0.00	0.000011	24.91
07C1288	0.01 W	0.024064	0.82	0.000000	0.00	0.000001	8.09	0.000000	0.00	0.002930	8.08	0.004498	0.82	0.000000	0.00	0.000062	0.38	0.000000	23.34	0.000642	7.44	0.005105	0.37	0.000002	8.29	0.331308	17.68	7.110932	0.82	0.000000	0.00	0.000008	24.90
07C1289	0.09 W	0.013013	0.88	0.000000	0.00	0.000001	9.97	0.000000	0.00	0.003247	9.97	0.002432	0.88	0.000000	0.00	0.000152	0.75	0.000000	24.06	0.001287	2.41	0.012575	0.74	0.000002	10.13	0.148379	22.97	3.845213	0.88	0.000000	0.00	0.000021	24.91
07C1291	0.18 W	0.004040	1.35	0.000000	0.00	0.000001	6.35	0.000000	0.00	0.004768	6.34	0.000755	1.35	0.000000	0.00	0.000205	0.62	0.000000	22.80	0.001616	1.96	0.016894	0.61	0.000003	6.60	0.063781	25.82	1.193743	1.35	0.000000	0.00	0.000028	24.91
07C1292	0.21 W	0.001025	2.35	0.000000	0.00	0.000001	5.26	0.000000	0.00	0.004577	5.25	0.000191	2.35	0.000000	0.00	0.000217	0.56	0.000000	22.52	0.001586	1.35	0.017947	0.55	0.000003	5.56	0.021675	36.24	0.302747	2.35	0.000000	0.00	0.000030	24.91
07C1293	0.29 W ✓	0.000273	6.26	0.000000	0.00	0.000001	5.26	0.000000	0.00	0.004711	5.25	0.000051	6.26	0.000000	0.00	0.000250	0.47	0.000000	22.52	0.001632	1.30	0.020645	0.46	0.000003	5.56	0.006445	94.01	0.080661	6.26	0.000000	0.00	0.000034	24.90
07C1294	0.47 W ✓	0.000116	14.97	0.000000	0.00	0.000002	6.54	0.000000	0.00	0.005875	6.53	0.000022	14.97	0.000000	0.00	0.000314	0.56	0.000000	22.85	0.001626	1.60	0.025923	0.55	0.000004	6.78	0.010617	57.77	0.034311	14.97	0.000000	0.00	0.000043	24.91
07C1296	0.65 W ✓	0.000079	21.49	0.000000	0.00	0.000002	5.00	0.000000	0.00	0.008261	4.98	0.000015	21.49	0.000000	0.00	0.000454	0.40	0.000000	22.46	0.001135	1.54	0.037521	0.38	0.000006	5.31	0.010321	58.66	0.023468	21.49	0.000000	0.00	0.000062	24.90
07C1297	0.97 W ✓	0.000083	20.07	0.000000	0.00	0.000004	1.81	0.000000	0.00	0.013567	1.77	0.000016	20.07	0.000000	0.00	0.000545	0.43	0.000000	21.97	0.000913	1.63	0.044984	0.42	0.000010	2.55	0.005980	99.61	0.024535	20.07	0.000000	0.00	0.000074	24.90
07C1298	1.36 W ✓	0.000100	18.26	0.000000	0.00	0.000018	1.76	0.000000	0.00	0.065255	1.72	0.000019	18.26	0.000000	0.00	0.000854	0.24	0.000002	21.97	0.001751	1.76	0.070513	0.22	0.000046	2.51	0.014672	43.17	0.029434	18.26	0.000000	0.00	0.000116	24.90
07C1299	1.97 W ✓	0.000146	11.88	0.000000	0.00	0.000070	0.94	0.000000	0.00	0.261370	0.86	0.000027	11.88	0.000000	0.00	0.000931	0.44	0.000008	21.92	0.002497	1.12	0.076881	0.43	0.000185	2.02	0.012464	49.25	0.043282	11.88	0.000000	0.00	0.000127	24.90
07C1302	2.65 W ✓	0.000118	7.97	0.000000	0.00	0.000108	0.97	0.000000	0.00	0.402651	0.89	0.000022	7.97	0.000000	0.00	0.000568	0.60	0.000013	21.92	0.001542	1.96	0.046867	0.60	0.000285	2.04	0.005081	54.85	0.034961	7.97	0.000000	0.00	0.000077	24.91
07C1303	3.55 W ✓	0.000106	10.91	0.000000	0.00	0.000129	0.90	0.000000	0.00	0.478405	0.82	0.000020	10.91	0.000000	0.00	0.000375	0.39	0.000015	21.92	0.000978	1.45	0.030990	0.37	0.000339	2.01	0.005149	66.12	0.031209	10.91	0.000000	0.00	0.000051	24.90
07C1305	4.51 W ✓	0.000104	7.58	0.000000	0.00	0.000133	0.82	0.000000	0.00	0.493749	0.73	0.000019	7.58	0.000000	0.00	0.000168	0.36	0.000016	21.91	0.000369	3.42	0.013864	0.34	0.000350	1.97	0.001906	121.92	0.030664	7.58	0.000000	0.00	0.000023	24.90
	Σ	0.103790	0.52	0.000000	0.00	0.000473	0.43	0.000000	0.00	1.756862	0.40	0.019398	0.52	0.000000	0.00	0.005177	0.14	0.000056	10.49	0.017986	0.83	0.427538	0.14	0.001246	0.96	0.776209	20.71	30.669832	0.52	0.000000	0.00	0.000705	8.15
	Σ							0.104262	0.52	1.756862	0.40									0.042618	0.42			0.428784	0.14							31.446746	0.72

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)
07C1287	0.00 W	20.263207	21.04102	18.023103	0.01626	2636.149180	13.87188	1.096394	0.04509	8.852749	0.08428	183.991	37.96473366	1.00129997	1.824E-18
07C1288	0.01 W	64.903201	11.47526	7.442239	0.00429	1457.344180	5.46597	0.573747	0.04641	4.712390	0.04246	184.009	37.97827557	1.00130009	7.532E-19
07C1289	0.09 W	11.799842	2.71169	3.993592	0.00352	317.533907	2.37814	0.258178	0.02580	1.034704	0.01193	184.027	37.99182230	1.00130022	4.042E-19
07C1291	0.18 W	3.775432	0.97503	1.257524	0.00338	74.424524	0.49423	0.282189	0.01798	0.239156	0.00354	184.063	38.01893027	1.00130048	1.273E-19
07C1292	0.21 W	1.207735	0.43778	0.324422	0.00335	18.075315	0.21170	0.254981	0.01346	0.057145	0.00138	184.081	38.03249151	1.00130060	3.283E-20
07C1293	0.29 W ✓	0.312192	0.29348	0.087106	0.00335	4.220183	0.16350	0.228176	0.01202	0.013281	0.00083	184.099	38.04605758	1.00130073	8.819E-21
07C1294	0.47 W ✓	0.409563	0.23660	0.044928	0.00335	1.734501	0.12964	0.226578	0.01485	0.004539	0.00067	184.117	38.05962849	1.00130086	4.551E-21
07C1296	0.65 W ✓	0.275081	0.16137	0.033789	0.00335	0.902057	0.08937	0.220140	0.01100	0.002176	0.00045	184.153	38.08626242	1.00130111	3.426E-21
07C1297	0.97 W ✓	0.132932	0.13241	0.030514	0.00335	0.679851	0.07453	0.301544	0.00549	0.001926	0.00037	184.170	38.09932507	1.00130123	3.096E-21
07C1298	1.36 W ✓	0.208082	0.08982	0.044107	0.00335	0.626750	0.04752	0.924820	0.01604	0.001660	0.00026	184.188	38.11291498	1.00130136	4.475E-21
07C1299	1.97 W ✓	0.162125	0.07984	0.055747	0.00335	0.725004	0.04360	3.391482	0.03261	0.002813	0.00023	184.206	38.12598678	1.00130148	5.654E-21
07C1302	2.65 W ✓	0.108411	0.05947	0.040042	0.00009	0.850852	0.00539	8.539379	0.09153	0.004806	0.00020	184.713	38.50966636	1.00130506	4.060E-21
07C1303	3.55 W ✓	0.166157	0.10986	0.036358	0.00008	1.162142	0.00490	15.270317	0.13780	0.007479	0.00037	184.731	38.52393105	1.00130520	3.685E-21
07C1305	4.51 W ✓	0.137505	0.16765	0.032570	0.00006	2.293075	0.00854	34.737331	0.27871	0.016645	0.00055	184.770	38.55353394	1.00130547	3.298E-21

Procedure Blanks		36Ar	1σ	37Ar	1σ	38Ar	1σ	39Ar	1σ	40Ar	1σ
07C1287	0.00 W	0.000103	0.000003	0.000017	0.000003	0.000025	0.000005	0.000043	0.000007	0.027496	0.000050
07C1288	0.01 W	0.000103	0.000003	0.000017	0.000003	0.000025	0.000005	0.000043	0.000007	0.027496	0.000050
07C1289	0.09 W	0.000049	0.000016	0.000024	0.000005	0.000014	0.000006	0.000043	0.000079	0.013418	0.003350
07C1291	0.18 W	0.000032	0.000016	0.000027	0.000005	0.000011	0.000006	0.000043	0.000079	0.008232	0.003350
07C1292	0.21 W	0.000026	0.000016	0.000028	0.000005	0.000009	0.000006	0.000043	0.000079	0.006305	0.003350
07C1293	0.29 W	0.000021	0.000016	0.000028	0.000005	0.000008	0.000006	0.000043	0.000079	0.004823	0.003350
07C1294	0.47 W	0.000018	0.000016	0.000028	0.000005	0.000007	0.000006	0.000043	0.000079	0.003786	0.003350
07C1296	0.65 W	0.000016	0.000016	0.000026	0.000005	0.000006	0.000006	0.000043	0.000079	0.003042	0.003350
07C1297	0.97 W	0.000017	0.000016	0.000025	0.000005	0.000006	0.000006	0.000043	0.000079	0.003302	0.003350
07C1298	1.36 W	0.000020	0.000016	0.000023	0.000005	0.000006	0.000006	0.000043	0.000079	0.004009	0.003350
07C1299	1.97 W	0.000024	0.000016	0.000021	0.000005	0.000006	0.000006	0.000043	0.000079	0.005107	0.003350
07C1302	2.65 W	0.000008	0.000006	0.000014	0.000002	0.000006	0.000004	0.000030	0.000006	0.003205	0.000025
07C1303	3.55 W	0.000008	0.000006	0.000014	0.000002	0.000006	0.000004	0.000030	0.000006	0.003205	0.000025
07C1305	4.51 W	0.000018	0.000005	0.000031	0.000006	0.000016	0.000005	0.000052	0.000004	0.005062	0.000021

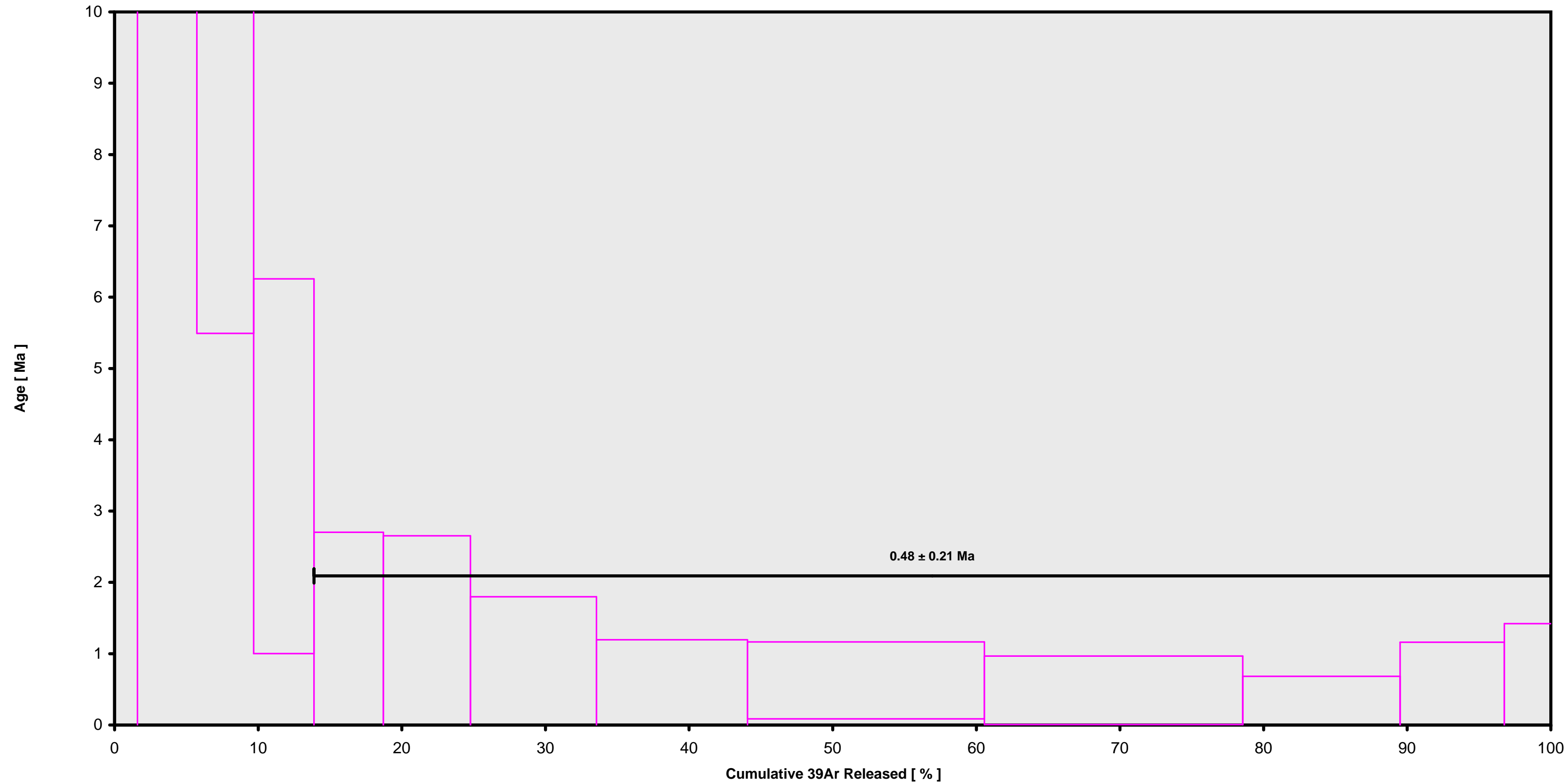
Intercept Values	36Ar				37Ar				38Ar				39Ar				40Ar				
		1σ	r2		1σ	r2		1σ	r2		1σ	r2		1σ	r2		1σ	r2			
07C1287	0.00 W	0.044007	0.000214	0.9246	LIN # 1	0.000155	0.000005	0.9994	LIN #	0.008523	0.000041	0.6075	LIN #	0.004932	0.000024	1.0000	LIN #	12.907122	0.011627	0.9943	LIN # 1 4
07C1288	0.01 W	0.024222	0.000126	0.8537	LIN # 1	0.000094	0.000005	0.9984	EXP #	0.005200	0.000025	0.4143	LIN #	0.005097	0.000015	1.0000	EXP #	7.375339	0.004235	0.9978	EXP #
07C1289	0.09 W	0.013092	0.000078	0.8955	LIN # 1	0.000109	0.000007	0.9940	EXP #	0.003866	0.000018	0.1288	LIN #	0.012491	0.000045	0.9995	EXP #	3.956389	0.001067	0.9996	EXP #
07C1291	0.18 W	0.004082	0.000046	0.6621	LIN # 1	0.000152	0.000006	0.9710	LIN #	0.002574	0.000028	0.6013	LIN #	0.016769	0.000059	0.9890	EXP # 1	1.249910	0.000414	0.9989	EXP #
07C1292	0.21 W	0.001054	0.000017	0.2594	LIN #	0.000148	0.000004	0.9575	LIN #	0.001994	0.000019	0.2446	LIN #	0.017811	0.000051	0.9196	EXP # 1	0.326608	0.000151	0.9778	EXP # 8
07C1293	0.29 W	0.000296	0.000006	0.2951	LIN #	0.000151	0.000004	0.9322	LIN #	0.001932	0.000019	0.8122	LIN # 1 2	0.020480	0.000041	0.9437	LIN # 1 2 7	0.090801	0.000099	0.9982	EXP #
07C1294	0.47 W	0.000135	0.000007	0.7156	LIN #	0.000182	0.000009	0.6979	LIN #	0.001959	0.000024	0.4650	LIN # 1	0.025708	0.000109	0.7181	LIN # 1 2	0.048145	0.000102	0.9986	EXP #
07C1296	0.65 W	0.000097	0.000006	0.6948	LIN #	0.000243	0.000009	0.1303	LIN #	0.001603	0.000015	0.4411	LIN #	0.037194	0.000103	0.9446	LIN # 1	0.036434	0.000065	0.9992	EXP #
07C1297	0.97 W	0.000104	0.000005	0.1902	LIN #	0.000380	0.000003	0.9081	LIN #	0.001473	0.000012	0.7149	LIN #	0.044590	0.000153	0.9518	LIN # 1	0.033472	0.000065	0.9991	EXP #
07C1298	1.36 W	0.000137	0.000009	0.5144	LIN #	0.001733	0.000026	0.3676	LIN #	0.002619	0.000029	0.4787	LIN #	0.069917	0.000072	0.9933	EXP # 1	0.047646	0.000079	0.9985	EXP #
07C1299	1.97 W	0.000241	0.000007	0.3926	LIN #	0.006869	0.000033	0.8742	LIN # 1	0.003453	0.000024	0.6802	LIN # 1	0.076354	0.000293	0.8652	LIN # 1 10	0.060234	0.000091	0.9979	EXP #
07C1302	2.65 W	0.000235	0.000007	0.0040	LIN #	0.010461	0.000057	0.7238	LIN #	0.002140	0.000029	0.4792	LIN # 1	0.046729	0.000266	0.7961	LIN # 1	0.042803	0.000087	0.9952	EXP # 1
07C1303	3.55 W	0.000243	0.000009	0.0262	LIN # 1	0.012423	0.000053	0.8817	LIN #	0.001387	0.000012	0.6558	LIN #	0.031061	0.000103	0.9621	LIN # 1 2	0.039141	0.000070	0.9958	EXP # 1
07C1305	4.51 W	0.000255	0.000006	0.3152	LIN #	0.012827	0.000023	0.9922	LIN # 1 7	0.000585	0.000011	0.4536	LIN #	0.014129	0.000040	0.9452	LIN # 1	0.037205	0.000051	0.9966	EXP # 1

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	
07C1287	0.00 W	OFU-2 3E9-06	Groundmass 125-300 μm	Ofu, Samoa	John Huard	0	28.03	0.01	0.0016632	0.29	1.00378	0.16	1.3985	1.012E-19	29	MAR	2007	14	15	001	OSU3E06	Samoa	07C1287	01	FCT-3
07C1288	0.01 W	OFU-2 3E9-06	Groundmass 125-300 μm	Ofu, Samoa	John Huard	0.01	28.03	0.01	0.0016632	0.29	1.00378	0.16	1.0128	1.012E-19	29	MAR	2007	14	41	001	OSU3E06	Samoa	07C1287	01	FCT-3
07C1289	0.09 W	OFU-2 3E9-06	Groundmass 125-300 μm	Ofu, Samoa	John Huard	0.09	28.03	0.01	0.0016632	0.29	1.00378	0.16	1.0128	1.012E-19	29	MAR	2007	15	07	001	OSU3E06	Samoa	07C1287	01	FCT-3
07C1291	0.18 W	OFU-2 3E9-06	Groundmass 125-300 μm	Ofu, Samoa	John Huard	0.18	28.03	0.01	0.0016632	0.29	1.00378	0.16	1.0127	1.012E-19	29	MAR	2007	15	59	001	OSU3E06	Samoa	07C1287	01	FCT-3
07C1292	0.21 W	OFU-2 3E9-06	Groundmass 125-300 μm	Ofu, Samoa	John Huard	0.21	28.03	0.01	0.0016632	0.29	1.00378	0.16	1.0127	1.012E-19	29	MAR	2007	16	25	001	OSU3E06	Samoa	07C1287	01	FCT-3
07C1293	0.29 W	OFU-2 3E9-06	Groundmass 125-300 μm	Ofu, Samoa	John Huard	0.29	28.03	0.01	0.0016632	0.29	1.00378	0.16	1.0128	1.012E-19	29	MAR	2007	16	51	001	OSU3E06	Samoa	07C1287	01	FCT-3
07C1294	0.47 W	OFU-2 3E9-06	Groundmass 125-300 μm	Ofu, Samoa	John Huard	0.47	28.03	0.01	0.0016632	0.29	1.00378	0.16	1.0127	1.012E-19	29	MAR	2007	17	17	001	OSU3E06	Samoa	07C1287	01	FCT-3
07C1296	0.65 W	OFU-2 3E9-06	Groundmass 125-300 μm	Ofu, Samoa	John Huard	0.65	28.03	0.01	0.0016632	0.29	1.00378	0.16	1.0126	1.012E-19	29	MAR	2007	18	08	001	OSU3E06	Samoa	07C1287	01	FCT-3
07C1297	0.97 W	OFU-2 3E9-06	Groundmass 125-300 μm	Ofu, Samoa	John Huard	0.97	28.03	0.01	0.0016632	0.29	1.00378	0.16	1.0125	1.012E-19	29	MAR	2007	18	33	001	OSU3E06	Samoa	07C1287	01	FCT-3
07C1298	1.36 W	OFU-2 3E9-06	Groundmass 125-300 μm	Ofu, Samoa	John Huard	1.36	28.03	0.01	0.0016632	0.29	1.00378	0.16	1.0123	1.012E-19	29	MAR	2007	18	59	001	OSU3E06	Samoa	07C1287	01	FCT-3
07C1299	1.97 W	OFU-2 3E9-06	Groundmass 125-300 μm	Ofu, Samoa	John Huard	1.97	28.03	0.01	0.0016632	0.29	1.00378	0.16	1.0124	1.012E-19	29	MAR	2007	19	24	001	OSU3E06	Samoa	07C1287	01	FCT-3
07C1302	2.65 W	OFU-2 3E9-06	Groundmass 125-300 μm	Ofu, Samoa	Anthony Koppers	2.65	28.03	0.01	0.0016632	0.29	1.00378	0.16	1.0122	1.012E-19	30	MAR	2007	07	34	001	OSU3E06	Samoa	07C1287	01	FCT-3
07C1303	3.55 W	OFU-2 3E9-06	Groundmass 125-300 μm	Ofu, Samoa	Anthony Koppers	3.55	28.03	0.01	0.0016632	0.29	1.00378	0.16	1.0121	1.012E-19	30	MAR	2007	08	01	001	OSU3E06	Samoa	07C1287	01	FCT-3
07C1305	4.51 W	OFU-2 3E9-06	Groundmass 125-300 μm	Ofu, Samoa	Anthony Koppers	4.51	28.03	0.01	0.0016632	0.29	1.00378	0.16	1.0121	1.012E-19	30	MAR	2007	08	57	001	OSU3E06	Samoa	07C1287	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	
07C1287	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
07C1288	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
07C1289	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
07C1291	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
07C1292	0.21 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
07C1293	0.29 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
07C1294	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
07C1296	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
07C1297	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
07C1298	1.36 W	295.5	0	0.018	35	0.1869	0	1.493	3	0.000709	1.83	0.000032	21.9	0.000269	0.37	0.00165	24.9	0.01211	0.1	0	0	0.43	2	0	0	0	0
07C1299	1.97 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
07C1302	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
07C1303	3.55 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
07C1305	4.51 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

07C1287.AGE >>> OFU-2 3E9-06 >>> SAMOA PROJECT



Ar-Ages in Ma

WEIGHTED PLATEAU

0.48 ± 0.21

TOTAL FUSION

5.45 ± 2.25

NORMAL ISOCHRON

0.38 ± 0.40

INVERSE ISOCHRON

0.41 ± 0.29

MSWD (PROBABILITY)

0.37 (93%)

Sample Info

Groundmass 125-300 μ m

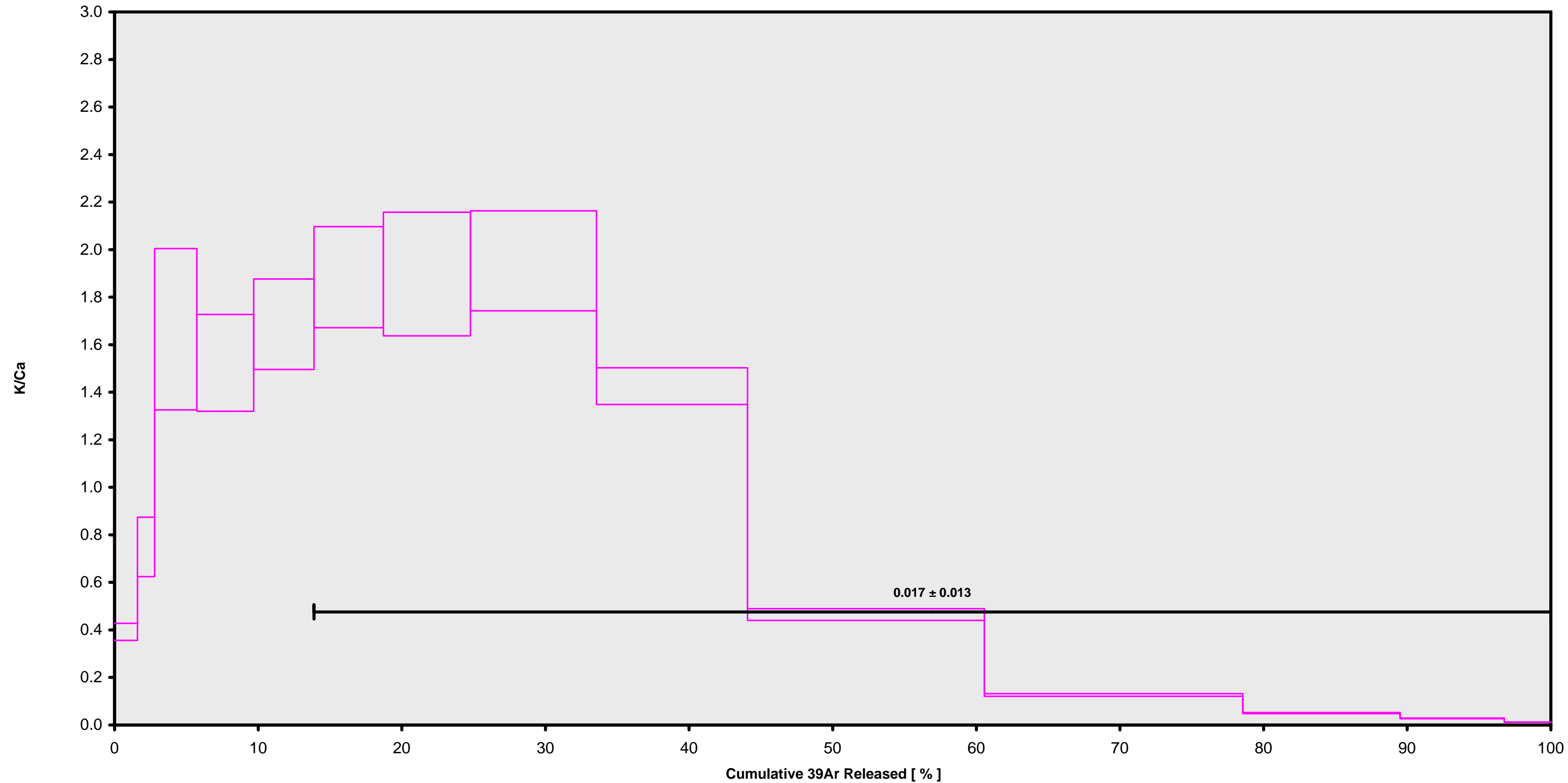
Ofu, Samoa

John Huard

IRR = OSU3E06

J = $0.00166320 \pm 0.00000482$

07C1287.AGE >>> OFU-2 3E9-06 >>> SAMOA PROJECT



Ar-Ages in Ma

WEIGHTED PLATEAU

0.48 ± 0.21

TOTAL FUSION

5.45 ± 2.25

NORMAL ISOCHRON

0.38 ± 0.40

INVERSE ISOCHRON

0.41 ± 0.29

Sample Info

Groundmass 125-300 µm

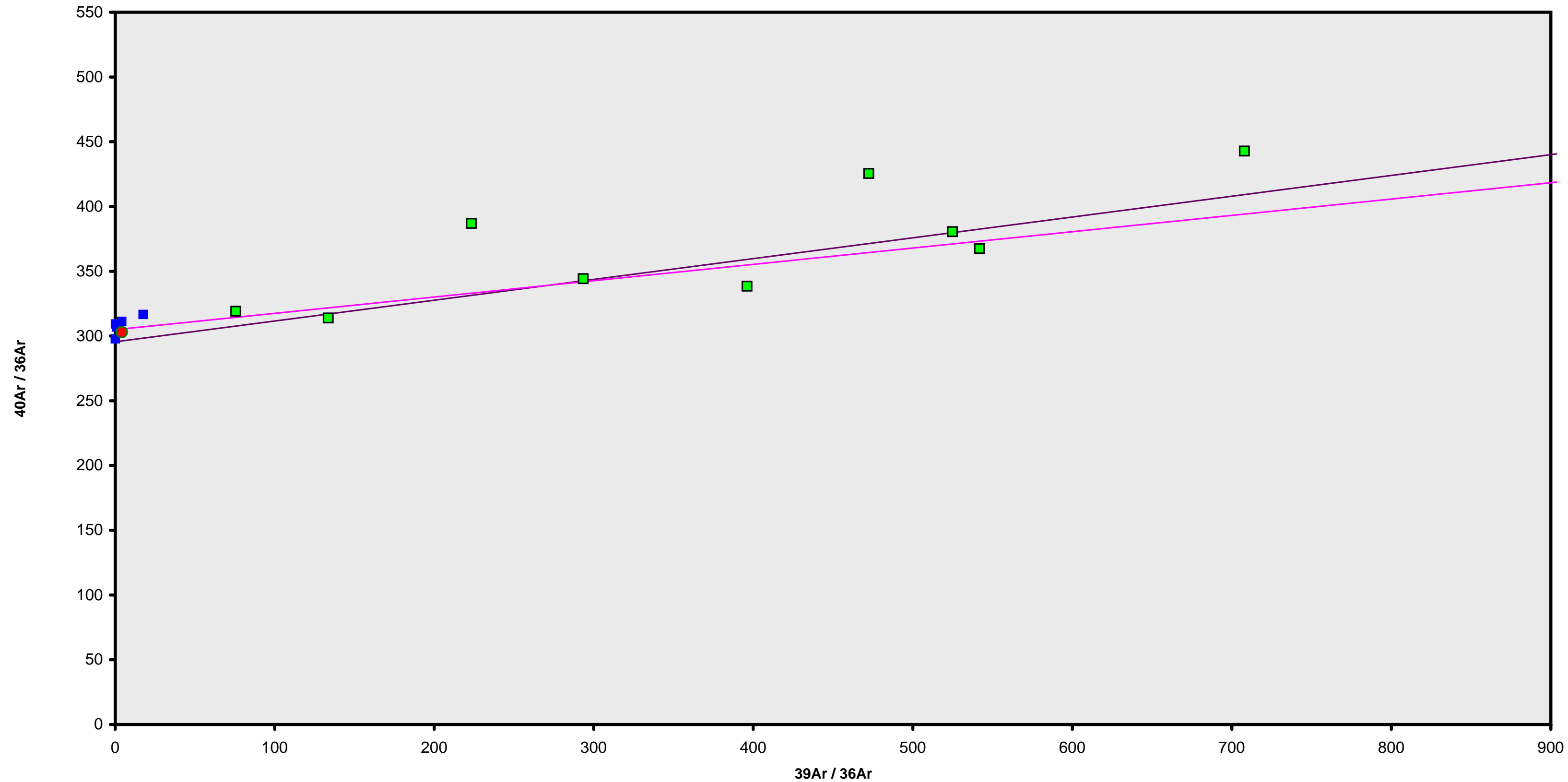
Ofu, Samoa

John Huard

IRR = OSU3E06

J = 0.00166320 ± 0.00000482

07C1287.AGE >>> OFU-2 3E9-06 >>> SAMOA PROJECT



Ar-Ages in Ma

WEIGHTED PLATEAU

0.48 ± 0.21

TOTAL FUSION

5.45 ± 2.25

NORMAL ISOCHRON

0.38 ± 0.40

INVERSE ISOCHRON

0.41 ± 0.29

MSWD (PROBABILITY)

0.35 (93%)

40AR/36AR INTERCEPT

304.8 ± 40.8

Sample Info

Groundmass 125-300 μm

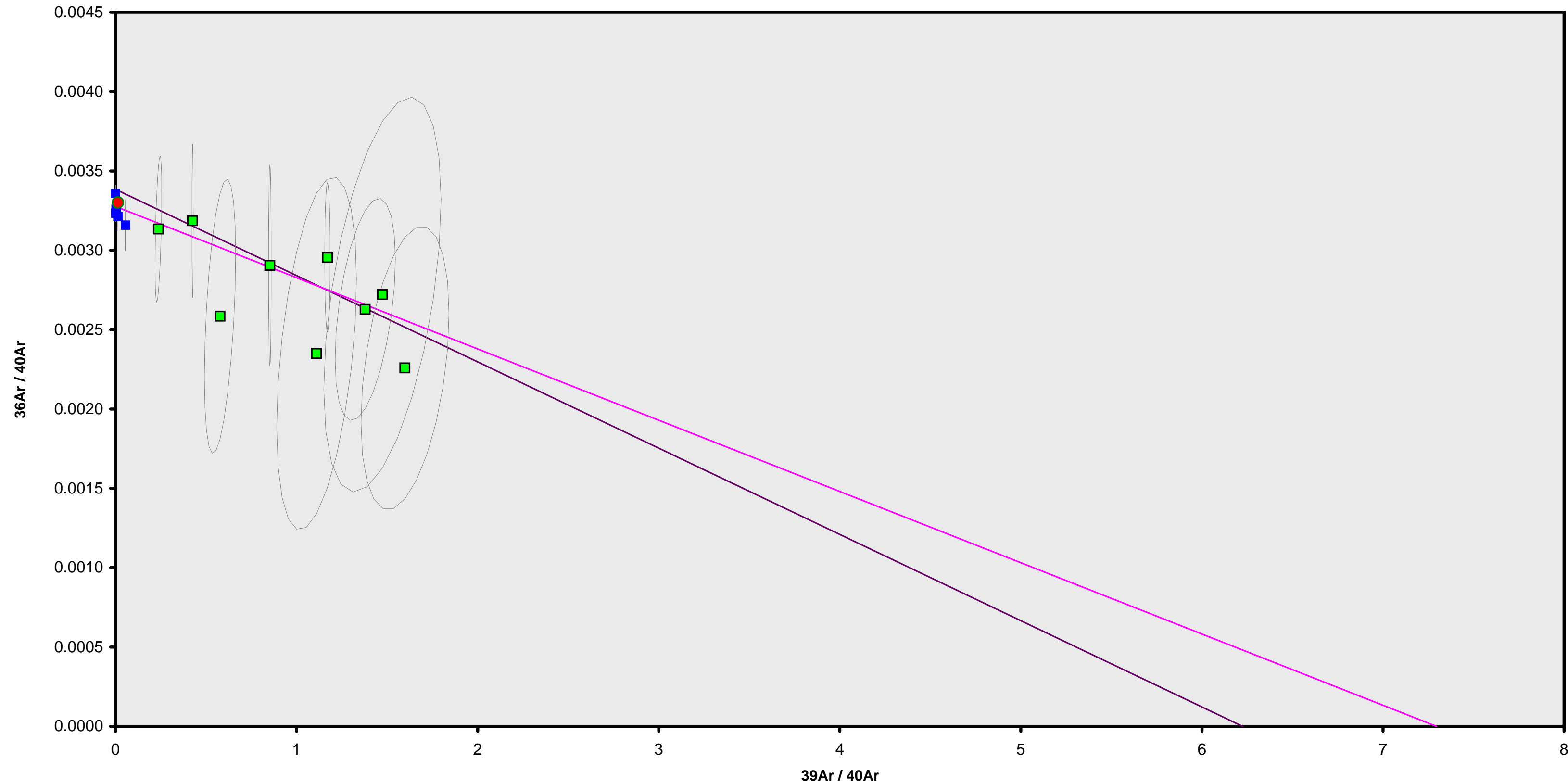
Ofu, Samoa

John Huard

IRR = OSU3E06

J = $0.00166320 \pm 0.00000482$

07C1287.AGE >>> OFU-2 3E9-06 >>> SAMOA PROJECT



Ar-Ages in Ma

WEIGHTED PLATEAU

0.48 ± 0.21

TOTAL FUSION

5.45 ± 2.25

NORMAL ISOCHRON

0.38 ± 0.40

INVERSE ISOCHRON

0.41 ± 0.29

MSWD (PROBABILITY)

0.41 (89%)

SPREADING FACTOR

18.7%

40AR/36AR INTERCEPT

305.2 ± 40.5

Sample Info

Groundmass 125-300 μm

Ofu, Samoa

John Huard

IRR = OSU3E06

$J = 0.00166320 \pm 0.00000482$