

Relative Abundances		36Ar [fA]	%1σ	37Ar [fA]	%1σ	38Ar [fA]	%1σ	39Ar [fA]	%1σ	40Ar [fA]	%1σ	40(r)/39(k) ± 2σ	Age ± 2σ (Ma)	40Ar(r) (%)	39Ar(k) (%)	K/Ca ± 2σ
16D10164	2.0 %	0.0291604	1.247	1.6950	19.525	0.012960	218.313	0.5114	4.253	20.515	0.319	23.57691 ± 2.07201	71.06 ± 6.12	58.64	0.05	0.129 ± 0.052
16D10166	2.4 %	0.0201127	1.754	1.6859	19.839	0.005068	544.631	0.3039	6.850	11.867	0.551	20.00113 ± 2.87340	60.46 ± 8.54	51.03	0.03	0.077 ± 0.032
16D10167	3.2 %	0.0227057	1.547	4.5972	7.059	0.007140	380.827	0.8178	2.765	18.498	0.355	14.90907 ± 0.88317	45.26 ± 2.65	65.67	0.08	0.076 ± 0.012
16D10168	4.0 %	0.0078811	3.523	4.4799	7.181	0.007670	362.988	0.5937	3.703	9.040	0.721	11.95438 ± 0.96187	36.38 ± 2.90	78.11	0.06	0.057 ± 0.009
16D10170	4.5 %	0.0106578	2.662	6.3231	4.970	0.037646	71.621	0.8195	2.573	12.432	0.524	11.99536 ± 0.67584	36.50 ± 2.04	78.66	0.08	0.055 ± 0.006
16D10171	6.1 %	0.0436417	1.023	34.6918	1.064	0.349998	8.034	6.6666	0.336	105.341	0.064	14.32530 ± 0.10672	43.51 ± 0.32	90.34	0.65	0.082 ± 0.002
16D10172	7.3 %	0.0729796	0.751	137.3807	0.499	1.762562	1.620	30.5314	0.107	459.524	0.016	14.74240 ± 0.03392	44.76 ± 0.10	97.65	2.98	0.095 ± 0.001
16D10174	10.0 %	0.2615983	0.457	542.6429	0.435	7.375229	0.421	125.7892	0.079	1899.860	0.005	14.87083 ± 0.02437	45.15 ± 0.07	98.17	12.27	0.099 ± 0.001
16D10175	11.0 %	0.2047588	0.500	520.0087	0.436	6.953090	0.434	119.8343	0.079	1795.210	0.005	14.85990 ± 0.02432	45.11 ± 0.07	98.90	11.69	0.099 ± 0.001
16D10176	12.0 %	0.2834645	0.441	659.2790	0.434	8.923111	0.357	152.9750	0.077	2301.491	0.004	14.87880 ± 0.02386	45.17 ± 0.07	98.61	14.92	0.099 ± 0.001
16D10178	13.0 %	0.2307904	0.487	609.4820	0.435	8.202175	0.382	141.5561	0.078	2118.860	0.004	14.86762 ± 0.02413	45.14 ± 0.07	99.04	13.81	0.100 ± 0.001
16D10179	14.0 %	0.3014237	0.431	705.5185	0.434	9.429767	0.347	162.9733	0.078	2452.070	0.004	14.88248 ± 0.02397	45.18 ± 0.07	98.62	15.90	0.099 ± 0.001
16D10180	15.0 %	0.1603424	0.550	470.5955	0.438	6.189626	0.475	108.0357	0.079	1612.072	0.006	14.86858 ± 0.02445	45.14 ± 0.07	99.35	10.54	0.098 ± 0.001
16D10182	16.0 %	0.1176017	0.618	329.5887	0.443	4.151203	0.701	75.1035	0.083	1122.980	0.008	14.87801 ± 0.02566	45.17 ± 0.08	99.21	7.32	0.098 ± 0.001
16D10183	17.0 %	0.1235981	0.633	343.4072	0.441	4.375286	0.666	78.2534	0.083	1170.728	0.007	14.88233 ± 0.02576	45.18 ± 0.08	99.18	7.63	0.098 ± 0.001
16D10184	18.0 %	0.0199669	1.781	50.4393	0.793	0.647581	4.300	11.7229	0.200	175.783	0.041	14.87216 ± 0.06364	45.15 ± 0.19	98.89	1.14	0.100 ± 0.002
16D10186	20.0 %	0.0063736	4.312	18.3999	1.892	0.238392	11.907	4.2786	0.517	63.486	0.104	14.77813 ± 0.16144	44.87 ± 0.48	99.31	0.42	0.100 ± 0.004
16D10187	22.0 %	0.0035411	7.118	9.0779	3.779	0.131551	21.468	2.1534	0.997	32.067	0.205	14.77826 ± 0.31078	44.87 ± 0.93	98.96	0.21	0.102 ± 0.008
16D10189	24.0 %	0.0038337	7.094	10.3095	3.208	0.142033	19.258	2.3811	0.917	34.796	0.189	14.51982 ± 0.28178	44.09 ± 0.85	99.07	0.23	0.099 ± 0.007
Σ		1.9244322	0.167	4459.6026	0.151	58.931952	0.215	1025.3009	0.028	15416.618	0.002					

**Information on Analysis and Constants Used in Calculations**

Project = RURUTU (13-INT-08)  
Sample = RR1310-D27-64  
Material = Hornblende  
Location = Samoa  
Region = Pacific Ocean  
Analyst = Kevin Konrad  
Irradiation = 15-OSU-06 (6A20-15)  
Position = X: 0 | Y: 0 | Z/H: 42.13 mm  
FCT-NM Age = 28.201 ± 0.023 Ma  
FCT-NM Reference = Kuiper et al (2008)  
FCT-NM 40Ar/39Ar Ratio = 9.24573 ± 0.01230  
FCT-NM J-value = 0.00169996 ± 0.00000226  
Air Shot 40Ar/36Ar = 304.9400 ± 0.6068  
Air Shot MDF = 0.99225077 ± 0.00075069 (LIN)  
Experiment Type = Incremental Heating  
Extraction Method = Bulk Laser Heating  
Heating = 77 sec  
Isolation = 1.50 min  
Instrument = ARGUS-VI-D  
Preferred Age = Plateau Age  
Age Classification = Eruption Age  
IGSN = IEKK1-RR1310-D27-64AM  
Rock Class = Igneous>Volcanic>Mafic  
Lithology = Basalt  
Lat-Lon = 11°00.6'S - 179°47.3'E

Age Equations = Min et al. (2000)  
Negative Intensities = Allowed  
Collector Calibrations = 36Ar  
Decay 40K = 5.530 ± 0.048 E-10 1/a  
Decay 39Ar = 2.940 ± 0.016 E-07 1/h  
Decay 37Ar = 8.230 ± 0.012 E-04 1/h  
Decay 36Cl = 2.257 ± 0.015 E-06 1/a  
Decay 40K(εC,β<sup>+</sup>) = 0.580 ± 0.009 E-10 1/a  
Decay 40K(β<sup>-</sup>) = 4.950 ± 0.043 E-10 1/a  
Atmospheric 40/36(a) = 295.50  
Atmospheric 38/36(a) = 0.1869  
Production 39/37(ca) = 0.0006756 ± 0.0000089  
Production 38/37(ca) = 0.0000718 ± 0.0000092  
Production 36/37(ca) = 0.0002663 ± 0.0000004  
Production 40/39(k) = 0.003823 ± 0.000102  
Production 38/39(k) = 0.012031 ± 0.000019  
Production 36/38(cl) = 262.80 ± 1.71  
Scaling Ratio K/Ca = 0.430  
Abundance Ratio 40K/K = 1.1700 ± 0.0100 E-04  
Atomic Weight K = 39.0983 ± 0.0001 g

**Results**

	40(a)/36(a) ± 2σ	40(r)/39(k) ± 2σ	Age ± 2σ (Ma)	MSWD	39Ar(k) (%n)	K/Ca ± 2σ
<b>Age Plateau</b>		14.87308 ± 0.00858 ± 0.06%	45.15 ± 0.12 ± 0.27%	0.48	95.84	0.099 ± 0.000
		Full External Error ± 1.02	1.89	2σ Confidence Limit		
		Analytical Error ± 0.03	1.0000	Error Magnification		
<b>Total Fusion Age</b>		14.86648 ± 0.00866 ± 0.06%	45.13 ± 0.12 ± 0.27%		19	0.099 ± 0.000
		Full External Error ± 1.02				
		Analytical Error ± 0.03				
<b>Normal Isochron</b>	382.21 ± 66.25	14.81914 ± 0.03932 ± 0.27%	44.99 ± 0.17 ± 0.37%	2.02	95.84	
<b>Error Chron</b>	± 17.33%			3%	11	
		Full External Error ± 1.02	1.94	2σ Confidence Limit		
		Analytical Error ± 0.12	1.4228	Error Magnification		
			1	Number of Iterations		
			0.0000595609	Convergence		
<b>Inverse Isochron</b>	301.07 ± 45.09	14.86998 ± 0.02694 ± 0.18%	45.14 ± 0.14 ± 0.32%	0.53	95.84	
<b>Clustered Points</b>	± 14.98%			86%	11	
		Full External Error ± 1.02	1.94	2σ Confidence Limit		
		Analytical Error ± 0.08	1.0000	Error Magnification		
<b>Notes</b>				3	Number of Iterations	
			0.0000403756	Convergence		
				2%	Spreading Factor	

A lovely plateau that is further evidence that amphibole is the best phase.

Incremental Heating		36Ar(a) [fA]	37Ar(ca) [fA]	38Ar(cl) [fA]	39Ar(k) [fA]	40Ar(r) [fA]	Age ± 2σ (Ma)	40Ar(r) (%)	39Ar(k) (%)	K/Ca ± 2σ
16D10164	2.0 %	0.0287088	1.6950	0.001334	0.5102	12.030	71.06 ± 6.12	58.64	0.05	0.129 ± 0.052
16D10166	2.4 %	0.0196637	1.6859	0.000000	0.3028	6.056	60.46 ± 8.54	51.03	0.03	0.077 ± 0.032
16D10167	3.2 %	0.0214815	4.5972	0.000000	0.8147	12.147	45.26 ± 2.65	65.67	0.08	0.076 ± 0.012
16D10168	4.0 %	0.0066881	4.4799	0.000000	0.5907	7.062	36.38 ± 2.90	78.11	0.06	0.057 ± 0.009
16D10170	4.5 %	0.0089686	6.3231	0.025708	0.8152	9.778	36.50 ± 2.04	78.66	0.08	0.055 ± 0.006
16D10171	6.1 %	0.0343487	34.6918	0.261164	6.6432	95.165	43.51 ± 0.32	90.34	0.65	0.082 ± 0.002
16D10172	7.3 %	0.0361069	137.3807	1.379743	30.4386	448.739	44.76 ± 0.10	97.65	2.98	0.095 ± 0.001
16D10174	10.0 %	✓ 0.1158795	542.6429	5.805651	125.4226	1865.138	45.15 ± 0.07	98.17	12.27	0.099 ± 0.001
16D10175	11.0 %	✓ 0.0651384	520.0087	5.466080	119.4829	1775.504	45.11 ± 0.07	98.90	11.69	0.099 ± 0.001
16D10176	12.0 %	✓ 0.1064315	659.2790	7.020799	152.5296	2269.458	45.17 ± 0.07	98.61	14.92	0.099 ± 0.001
16D10178	13.0 %	✓ 0.0671379	609.4820	6.447758	141.1444	2098.481	45.14 ± 0.07	99.04	13.81	0.100 ± 0.001
16D10179	14.0 %	✓ 0.1119970	705.5185	7.403180	162.4967	2418.353	45.18 ± 0.07	98.62	15.90	0.099 ± 0.001
16D10180	15.0 %	✓ 0.0340085	470.5955	4.853529	107.7178	1601.610	45.14 ± 0.07	99.35	10.54	0.098 ± 0.001
16D10182	16.0 %	✓ 0.0291590	329.5887	3.221198	74.8808	1114.077	45.17 ± 0.08	99.21	7.32	0.098 ± 0.001
16D10183	17.0 %	✓ 0.0314369	343.4072	3.406078	78.0214	1161.140	45.18 ± 0.08	99.18	7.63	0.098 ± 0.001
16D10184	18.0 %	✓ 0.0064300	50.4393	0.502130	11.6888	173.838	45.15 ± 0.19	98.89	1.14	0.100 ± 0.002
16D10186	20.0 %	✓ 0.0014350	18.3999	0.185476	4.2662	63.046	44.87 ± 0.48	99.31	0.42	0.100 ± 0.004
16D10187	22.0 %	✓ 0.0011018	9.0779	0.104859	2.1473	31.733	44.87 ± 0.93	98.96	0.21	0.102 ± 0.008
16D10189	24.0 %	0.0010647	10.3095	0.112530	2.3742	34.473	44.09 ± 0.85	99.07	0.23	0.099 ± 0.007
Σ		0.7271863	4459.6026	46.197218	1022.2879	15197.826				

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 Irradiation = 15-OSU-06 (6A20-15)  
 J = 0.00169996 ± 0.00000226  
 FCT-NM = 28.201 ± 0.023 Ma

Results	40(r)/39(k) ± 2σ	Age ± 2σ (Ma)	MSWD	39Ar(k) (%,n)	K/Ca ± 2σ
Age Plateau	14.87308 ± 0.00858 ± 0.06%	45.15 ± 0.12 ± 0.27%	0.48 90%	95.84 11	0.099 ± 0.000
		Full External Error ± 1.02 Analytical Error ± 0.03	1.89 1.0000	2σ Confidence Limit Error Magnification	
Total Fusion Age	14.86648 ± 0.00866 ± 0.06%	45.13 ± 0.12 ± 0.27%		19	0.099 ± 0.000
		Full External Error ± 1.02 Analytical Error ± 0.03			

Normal Isochron		39(k)/36(a) ± 2σ	40(a+r)/36(a) ± 2σ	r.i.
16D10164	2.0 %	17.77 ± 1.58	714.53 ± 19.18	0.2841
16D10166	2.4 %	15.40 ± 2.19	603.46 ± 23.31	0.2491
16D10167	3.2 %	37.93 ± 2.46	860.95 ± 29.63	0.5074
16D10168	4.0 %	88.32 ± 10.11	1351.34 ± 119.03	0.7492
16D10170	4.5 %	90.89 ± 7.62	1385.78 ± 92.57	0.7771
16D10171	6.1 %	193.40 ± 5.31	3066.06 ± 81.76	0.9683
16D10172	7.3 %	843.02 ± 27.15	12723.57 ± 408.94	0.9977
16D10174	10.0 %	✓ 1082.35 ± 25.60	16390.99 ± 386.87	0.9978
16D10175	11.0 %	✓ 1834.29 ± 68.03	27552.91 ± 1020.98	0.9991
16D10176	12.0 %	✓ 1433.12 ± 40.12	21618.68 ± 604.35	0.9985
16D10178	13.0 %	✓ 2102.30 ± 84.60	31551.77 ± 1268.69	0.9992
16D10179	14.0 %	✓ 1450.90 ± 40.50	21888.51 ± 609.97	0.9984
16D10180	15.0 %	✓ 3167.38 ± 196.71	47389.98 ± 2942.26	0.9997
16D10182	16.0 %	✓ 2568.02 ± 147.14	38502.53 ± 2205.18	0.9996
16D10183	17.0 %	✓ 2481.84 ± 140.72	37231.12 ± 2110.13	0.9996
16D10184	18.0 %	✓ 1817.87 ± 210.41	27331.11 ± 3161.69	0.9994
16D10186	20.0 %	✓ 2972.97 ± 1202.80	44230.50 ± 17889.02	0.9997
16D10187	22.0 %	✓ 1948.95 ± 949.62	29097.55 ± 14166.26	0.9991
16D10189	24.0 %	2229.86 ± 1198.42	32672.63 ± 17549.77	0.9994

Results	40(a)/36(a) ± 2σ	40(r)/39(k) ± 2σ	Age ± 2σ (Ma)	MSWD
Normal Isochron	382.21 ± 66.25	14.81914 ± 0.03932	44.99 ± 0.17	2.02
Error Chron	± 17.33%	± 0.27%	± 0.37%	3%
			Full External Error ± 1.02	
			Analytical Error ± 0.12	
Statistics	2σ Confidence Limit	1.94	Convergence	0.000059560939
	Error Magnification	1.4228	Number of Iterations	1
	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.
16D10164	2.0 %	0.0248736 ± 0.0021263	0.00139952 ± 0.00003757	0.0177
16D10166	2.4 %	0.0255147 ± 0.0035199	0.00165711 ± 0.00006400	0.0228
16D10167	3.2 %	0.0440520 ± 0.0024657	0.00116151 ± 0.00003997	0.0262
16D10168	4.0 %	0.0653592 ± 0.0049561	0.00074000 ± 0.00006518	0.0311
16D10170	4.5 %	0.0655890 ± 0.0034626	0.00072161 ± 0.00004820	0.0312
16D10171	6.1 %	0.0630788 ± 0.0004327	0.00032615 ± 0.00000870	0.0090
16D10172	7.3 %	0.0662562 ± 0.0001437	0.00007859 ± 0.00000253	0.0014
16D10174	10.0 %	✓ 0.0660334 ± 0.0001044	0.00006101 ± 0.00000144	0.0003
16D10175	11.0 %	✓ 0.0665735 ± 0.0001056	0.00003629 ± 0.00000134	0.0002
16D10176	12.0 %	✓ 0.0662910 ± 0.0001031	0.00004626 ± 0.00000129	0.0002
16D10178	13.0 %	✓ 0.0666303 ± 0.0001051	0.00003169 ± 0.00000127	0.0001
16D10179	14.0 %	✓ 0.0662860 ± 0.0001037	0.00004569 ± 0.00000127	0.0002
16D10180	15.0 %	✓ 0.0668365 ± 0.0001068	0.00002110 ± 0.00000131	0.0001
16D10182	16.0 %	✓ 0.0666975 ± 0.0001112	0.00002597 ± 0.00000149	0.0002
16D10183	17.0 %	✓ 0.0666605 ± 0.0001114	0.00002686 ± 0.00000152	0.0002
16D10184	18.0 %	✓ 0.0665128 ± 0.0002718	0.00003659 ± 0.00000423	0.0014
16D10186	20.0 %	✓ 0.0672155 ± 0.0007110	0.00002261 ± 0.00000914	0.0010
16D10187	22.0 %	✓ 0.0669798 ± 0.0013677	0.00003437 ± 0.00001673	0.0017
16D10189	24.0 %	0.0682485 ± 0.0012810	0.00003061 ± 0.00001644	0.0014

Results	40(a)/36(a) ± 2σ	40(r)/39(k) ± 2σ	Age ± 2σ (Ma)	MSWD
Inverse Isochron	301.07 ± 45.09	14.86998 ± 0.02694	45.14 ± 0.14	0.53
Clustered Points	± 14.98%	± 0.18%	± 0.32%	86%
			Full External Error ± 1.02	
			Analytical Error ± 0.08	
Statistics	2σ Confidence Limit	1.94	Convergence	0.0000403756
	Error Magnification	1.0000	Number of Iterations	3
	Number of Data Points	11	Calculated Line	Weighted York-2
	Spreading Factor	1.8%		

Degassing Patterns		36Ar(a) [fA]	%1σ	36Ar(c) [fA]	%1σ	36Ar(ca) [fA]	%1σ	36Ar(cl) [fA]	%1σ	37Ar(ca) [fA]	%1σ	38Ar(a) [fA]	%1σ	38Ar(c) [fA]	%1σ	38Ar(k) [fA]	%1σ	38Ar(ca) [fA]	%1σ	38Ar(cl) [fA]	%1σ	39Ar(k) [fA]	%1σ	39Ar(ca) [fA]	%1σ	40Ar(r) [fA]	%1σ	40Ar(a) [fA]	%1σ	40Ar(c) [fA]	%1σ	40Ar(k) [fA]	%1σ	
16D10164	2.0 %	0.0287088	1.30	0.0000000	0.00	0.0004514	19.53	0.0000003	#####	1.6950	19.52	0.0053657	1.30	0.0000000	0.00	0.006139	4.27	0.0001217	23.36	0.001334	#####	0.5102	4.26	0.0011452	19.57	12.030	1.07	8.48344	1.30	0.0000000	0.00	0.0019507	5.02	
16D10166	2.4 %	0.0196637	1.85	0.0000000	0.00	0.0004489	19.84	0.0000000	0.00	1.6859	19.84	0.0036751	1.85	0.0000000	0.00	0.003643	6.88	0.0001210	23.62	0.0000000	0.00	0.3028	6.88	0.0011390	19.88	6.056	2.08	5.81063	1.85	0.0000000	0.00	0.0011575	7.37	
16D10167	3.2 %	0.0214815	1.68	0.0000000	0.00	0.0012242	7.06	0.0000000	0.00	4.5972	7.06	0.0040149	1.68	0.0000000	0.00	0.009802	2.78	0.0003301	14.64	0.0000000	0.00	0.8147	2.78	0.0031058	7.18	12.147	1.03	6.34778	1.68	0.0000000	0.00	0.0031147	3.84	
16D10168	4.0 %	0.0066881	4.34	0.0000000	0.00	0.0011930	7.18	0.0000000	0.00	4.4799	7.18	0.0012500	4.34	0.0000000	0.00	0.007107	3.73	0.0003217	14.69	0.0000000	0.00	0.5907	3.72	0.0030266	7.30	7.062	1.53	1.97632	4.34	0.0000000	0.00	0.0022583	4.58	
16D10170	4.5 %	0.0089686	3.30	0.0000000	0.00	0.0016838	4.97	0.0000054	104.89	6.3231	4.97	0.0016762	3.30	0.0000000	0.00	0.009807	2.59	0.0004540	13.75	0.025708	104.90	0.8152	2.59	0.0042719	5.14	9.778	1.12	2.65023	3.30	0.0000000	0.00	0.0031164	3.71	
16D10171	6.1 %	0.0343487	1.33	0.0000000	0.00	0.0092384	1.07	0.0000546	10.81	34.6918	1.06	0.0064198	1.33	0.0000000	0.00	0.079924	0.37	0.0024909	12.86	0.261164	10.85	6.6432	0.34	0.0234378	1.70	95.165	0.16	10.15005	1.33	0.0000000	0.00	0.0253968	2.68	
16D10172	7.3 %	0.0361069	1.61	0.0000000	0.00	0.0365845	0.52	0.0002882	2.27	137.3807	0.50	0.0067484	1.61	0.0000000	0.00	0.366207	0.19	0.0098639	12.83	1.379743	2.45	30.4386	0.11	0.0928144	1.41	448.739	0.04	10.66958	1.61	0.0000000	0.00	0.1163669	2.66	
16D10174	10.0 %	✓ 0.1158795	1.18	0.0000000	0.00	0.1445058	0.46	0.0012130	1.07	542.6429	0.44	0.0216579	1.18	0.0000000	0.00	1.508959	0.18	0.0389618	12.83	5.805651	1.41	125.4226	0.08	0.3666095	1.39	1865.138	0.02	34.24239	1.18	0.0000000	0.00	0.4794904	2.66	
16D10175	11.0 %	✓ 0.0651384	1.85	0.0000000	0.00	0.1384783	0.46	0.0011421	1.08	520.0087	0.44	0.0121744	1.85	0.0000000	0.00	1.437499	0.18	0.0373366	12.83	5.466080	1.42	119.4829	0.08	0.3513179	1.39	1775.504	0.02	19.24840	1.85	0.0000000	0.00	0.4567833	2.66	
16D10176	12.0 %	✓ 0.1064315	1.40	0.0000000	0.00	0.1755660	0.46	0.0014670	1.03	659.2790	0.43	0.0198920	1.40	0.0000000	0.00	1.835083	0.18	0.0473362	12.83	7.020799	1.38	152.5296	0.08	0.4454089	1.39	2269.458	0.02	31.45050	1.40	0.0000000	0.00	0.5831206	2.66	
16D10178	13.0 %	✓ 0.0671379	2.01	0.0000000	0.00	0.1623051	0.46	0.0013474	1.04	609.4820	0.43	0.0125481	2.01	0.0000000	0.00	1.698108	0.18	0.0437608	12.83	6.447758	1.39	141.1444	0.08	0.4117660	1.39	2098.481	0.02	19.83926	2.01	0.0000000	0.00	0.5395949	2.66	
16D10179	14.0 %	✓ 0.1119970	1.39	0.0000000	0.00	0.1878796	0.46	0.0015471	1.03	705.5185	0.43	0.0209322	1.39	0.0000000	0.00	1.954998	0.18	0.0506562	12.83	7.403180	1.38	162.4967	0.08	0.4766483	1.39	2418.353	0.02	33.09512	1.39	0.0000000	0.00	0.6212249	2.66	
16D10180	15.0 %	✓ 0.0340085	3.10	0.0000000	0.00	0.1253196	0.46	0.0010143	1.11	470.5955	0.44	0.0063562	3.10	0.0000000	0.00	1.295952	0.18	0.0337888	12.83	4.853529	1.44	107.7178	0.08	0.3179343	1.39	1601.610	0.02	10.04950	3.10	0.0000000	0.00	0.4118050	2.66	
16D10182	16.0 %	✓ 0.0291590	2.86	0.0000000	0.00	0.0877695	0.47	0.0006733	1.29	329.5887	0.44	0.0054498	2.86	0.0000000	0.00	0.900891	0.18	0.0236645	12.83	3.221198	1.59	74.8808	0.08	0.2226701	1.39	1114.077	0.02	8.61647	2.86	0.0000000	0.00	0.2862693	2.66	
16D10183	17.0 %	✓ 0.0314369	2.83	0.0000000	0.00	0.0914493	0.47	0.0007119	1.26	343.4072	0.44	0.0058755	2.83	0.0000000	0.00	0.938675	0.18	0.0246566	12.83	3.406078	1.56	78.0214	0.08	0.2320059	1.39	1161.140	0.02	9.28959	2.83	0.0000000	0.00	0.2982758	2.66	
16D10184	18.0 %	✓ 0.0064300	5.78	0.0000000	0.00	0.0134320	0.81	0.0001050	5.62	50.4393	0.79	0.0012018	5.78	0.0000000	0.00	0.140628	0.26	0.0036215	12.84	0.502130	5.70	11.6888	0.20	0.0340768	1.54	173.838	0.08	1.90005	5.78	0.0000000	0.00	0.0446864	2.67	
16D10186	20.0 %	✓ 0.0014350	20.22	0.0000000	0.00	0.0048999	1.90	0.0000388	15.33	18.3999	1.89	0.0002682	20.22	0.0000000	0.00	0.051326	0.54	0.0013211	12.96	0.185476	15.36	4.2662	0.52	0.0124310	2.31	63.046	0.17	0.42404	20.22	0.0000000	0.00	0.0163096	2.71	
16D10187	22.0 %	✓ 0.0011018	24.34	0.0000000	0.00	0.0024175	3.78	0.0000219	26.95	9.0779	3.78	0.0002059	24.34	0.0000000	0.00	0.025834	1.01	0.0006518	13.37	0.104859	26.97	2.1473	1.00	0.0061330	4.00	31.733	0.32	0.32557	24.34	0.0000000	0.00	0.0082090	2.84	
16D10189	24.0 %	0.0010647	26.86	0.0000000	0.00	0.0027454	3.21	0.0000235	24.33	10.3095	3.21	0.0001990	26.86	0.0000000	0.00	0.028564	0.93	0.0007402	13.22	0.112530	24.34	2.3742	0.92	0.0069651	3.47	34.473	0.31	0.31463	26.86	0.0000000	0.00	0.0090765	2.81	
		Σ	0.7271863	0.51	0.0000000	0.00	1.1875922	0.16	0.0096537	0.41	4459.6026	0.15	0.1359111	0.51	0.0000000	0.00	12.299146	0.06	0.3201995	4.40	46.197218	0.52	1022.2879	0.03	3.0129075	0.48	15197.826	0.01	214.88356	0.51	0.0000000	0.00	3.9082068	0.92
		Σ						1.9244322	0.22	4459.6026	0.15									58.952474	0.41			1025.3009	0.03							15416.618	0.01	

Additional Parameters		40Ar/39Ar	1σ	37Ar/39Ar	1σ	36Ar/39Ar	1σ	Time (days)	37Ar (decay)	39Ar (decay)	40Ar (moles)
16D10164	2.0 %	40.117028	1.710799	3.314568	0.662335	0.057022	0.002527	128.596	12.711319	1.00090867	9.847E-13
16D10166	2.4 %	39.050012	2.683427	5.547343	1.164274	0.066181	0.004679	128.608	12.714284	1.00090875	5.696E-13
16D10167	3.2 %	22.618052	0.630602	5.621208	0.426173	0.027764	0.000880	128.613	12.715679	1.00090879	8.879E-13
16D10168	4.0 %	15.225875	0.574407	7.545304	0.609595	0.013274	0.000678	128.619	12.717249	1.00090883	4.339E-13
16D10170	4.5 %	15.170785	0.398419	7.716213	0.431841	0.013006	0.000482	128.631	12.720215	1.00090892	5.967E-13
16D10171	6.1 %	15.801267	0.054007	5.203811	0.058054	0.006546	0.000070	128.637	12.721611	1.00090896	5.056E-12
16D10172	7.3 %	15.050857	0.016261	4.499647	0.022976	0.002390	0.000018	128.643	12.723181	1.00090900	2.206E-11
16D10174	10.0 %	✓ 15.103523	0.011885	4.313908	0.019084	0.002080	0.000010	128.655	12.726148	1.00090908	9.119E-11
16D10175	11.0 %	✓ 14.980770	0.011834	4.339399	0.019206	0.001709	0.000009	128.660	12.727545	1.00090912	8.617E-11
16D10176	12.0 %	✓ 15.044887	0.011653	4.309717	0.018983	0.001853	0.000008	128.667	12.729116	1.00090917	1.105E-10
16D10178	13.0 %	✓ 14.968336	0.011758	4.305585	0.019023	0.001630	0.000008	128.678	12.732085	1.00090925	1.017E-10
16D10179	14.0 %	✓ 15.045832	0.011719	4.329043	0.019088	0.001850	0.000008	128.684	12.733482	1.00090929	1.177E-10
16D10180	15.0 %	✓ 14.921657	0.011869	4.355926	0.019396	0.001484	0.000008	128.690	12.734879	1.00090933	7.738E-11
16D10182	16.0 %	✓ 14.952434	0.012407	4.388462	0.019762	0.001566	0.000010	128.701	12.737849	1.00090941	5.390E-11
16D10183	17.0 %	✓ 14.960727	0.012443	4.388400	0.019710	0.001579	0.000010	128.708	12.739422	1.00090946	5.619E-11
16D10184	18.0 %	✓ 14.994818	0.030542	4.302629	0.035177	0.001703	0.000031	128.713	12.740820	1.00090950	8.438E-12
16D10186	20.0 %	✓ 14.838110	0.078249	4.300444	0.084334	0.001490	0.000065	128.725	12.743791	1.00090958	3.047E-12
16D10187	22.0 %	✓ 14.891174	0.151607	4.215621	0.164780	0.001644	0.000118	128.731	12.745364	1.00090962	1.539E-12
16D10189	24.0 %	14.613296	0.136754	4.329660	0.144438	0.001610	0.000115	128.743	12.748337	1.00090971	1.670E-12

Procedure		36Ar ± 1σ (SE)	37Ar ± 1σ (SE)	38Ar ± 1σ (SE)	39Ar ± 1σ (SE)	40Ar ± 1σ (SE)
Blanks		[fA]	[fA]	[fA]	[fA]	[fA]
16D10164	2.0 %	0.0035591 ± 0.0001656	0.0145035 ± 0.0178952	0.0185402 ± 0.0219088	0.0191024 ± 0.0152438	0.8661231 ± 0.0628493
16D10166	2.4 %	0.0035842 ± 0.0001656	0.0178646 ± 0.0178952	0.0219031 ± 0.0219088	0.0026006 ± 0.0152438	0.8579363 ± 0.0628493
16D10167	3.2 %	0.0035591 ± 0.0001656	0.0170217 ± 0.0178952	0.0220682 ± 0.0219088	0.0065748 ± 0.0152438	0.8678889 ± 0.0628493
16D10168	4.0 %	0.0035152 ± 0.0001656	0.0148989 ± 0.0178952	0.0214526 ± 0.0219088	0.0075138 ± 0.0152438	0.8862142 ± 0.0628493
16D10170	4.5 %	0.0034162 ± 0.0001656	0.0091493 ± 0.0178952	0.0186975 ± 0.0219088	0.0022034 ± 0.0152438	0.9329233 ± 0.0628493
16D10171	6.1 %	0.0033734 ± 0.0001656	0.0062883 ± 0.0178952	0.0169726 ± 0.0219088	0.0022626 ± 0.0152438	0.9570590 ± 0.0628493
16D10172	7.3 %	0.0033347 ± 0.0001656	0.0033436 ± 0.0178952	0.0149004 ± 0.0219088	0.0079800 ± 0.0152438	0.9837355 ± 0.0628493
16D10174	10.0 %	0.0033011 ± 0.0001656	0.0006051 ± 0.0178952	0.0110771 ± 0.0219088	0.0189020 ± 0.0152438	1.0280277 ± 0.0628493
16D10175	11.0 %	0.0033063 ± 0.0001656	0.0014770 ± 0.0178952	0.0094974 ± 0.0219088	0.0234197 ± 0.0152438	1.0445040 ± 0.0628493
16D10176	12.0 %	0.0033288 ± 0.0001656	0.0015983 ± 0.0178952	0.0079970 ± 0.0219088	0.0276437 ± 0.0152438	1.0588820 ± 0.0628493
16D10178	13.0 %	0.0034143 ± 0.0001656	0.0006475 ± 0.0178952	0.0061830 ± 0.0219088	0.0325024 ± 0.0152438	1.0730855 ± 0.0628493
16D10179	14.0 %	0.0034693 ± 0.0001656	0.0027045 ± 0.0178952	0.0058555 ± 0.0219088	0.0332606 ± 0.0152438	1.0740085 ± 0.0628493
16D10180	15.0 %	0.0035294 ± 0.0001656	0.0052550 ± 0.0178952	0.0058829 ± 0.0219088	0.0330760 ± 0.0152438	1.0716352 ± 0.0628493
16D10182	16.0 %	0.0036533 ± 0.0001656	0.0115423 ± 0.0178952	0.0070945 ± 0.0219088	0.0300959 ± 0.0152438	1.0582403 ± 0.0628493
16D10183	17.0 %	0.0037023 ± 0.0001656	0.0147750 ± 0.0178952	0.0083153 ± 0.0219088	0.0276037 ± 0.0152438	1.0486393 ± 0.0628493
16D10184	18.0 %	0.0037262 ± 0.0001656	0.0171805 ± 0.0178952	0.0096810 ± 0.0219088	0.0252714 ± 0.0152438	1.0402195 ± 0.0628493
16D10186	20.0 %	0.0036778 ± 0.0001656	0.0192419 ± 0.0178952	0.0131936 ± 0.0219088	0.0216918 ± 0.0152438	1.0289626 ± 0.0628493
16D10187	22.0 %	0.0035738 ± 0.0001656	0.0176406 ± 0.0178952	0.0152008 ± 0.0219088	0.0217213 ± 0.0152438	1.0307451 ± 0.0628493
16D10189	24.0 %	0.0031649 ± 0.0001656	0.0067150 ± 0.0178952	0.0187007 ± 0.0219088	0.0287877 ± 0.0152438	1.0602950 ± 0.0628493

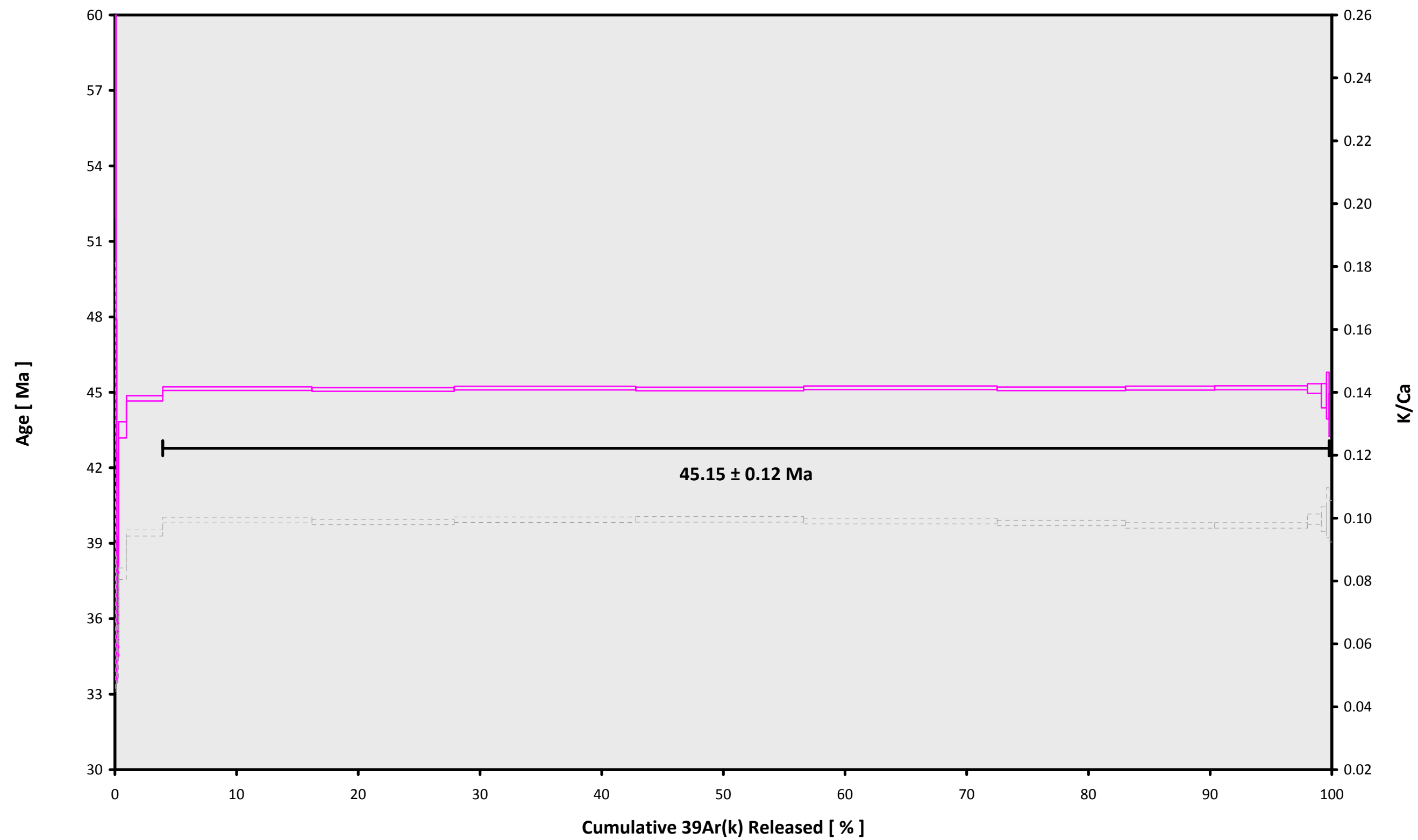
Intercept Values		36Ar ± 1σ (SE) [fA]	r2	Regression (type,n)	37Ar ± 1σ (SE) [fA]	r2	Regression (type,n)	38Ar ± 1σ (SE) [fA]	r2	Regression (type,n)	39Ar ± 1σ (SE) [fA]	r2	Regression (type,n)	40Ar ± 1σ (SE) [fA]	r2	Regression (type,n)
16D10164	2.0 %	0.0310909 ± 0.0002885	0.6372	EXP 150 of 150	0.1157488 ± 0.0180613	0.0099	EXP 150 of 150	0.0312994 ± 0.0172021	0.0009	EXP 150 of 150	0.4878684 ± 0.0152409	0.0390	EXP 149 of 150	21.381438 ± 0.018134	0.9979	EXP 150 of 150
16D10166	2.4 %	0.0225736 ± 0.0002830	0.6824	EXP 149 of 150	0.1116525 ± 0.0184300	0.0104	EXP 150 of 150	0.0169132 ± 0.0160804	0.0024	EXP 150 of 150	0.3038789 ± 0.0139081	0.0988	EXP 150 of 150	12.725335 ± 0.018152	0.9980	EXP 150 of 150
16D10167	3.2 %	0.0249967 ± 0.0002795	0.6997	EXP 150 of 150	0.3361208 ± 0.0172890	0.0009	EXP 150 of 150	0.0290975 ± 0.0153818	0.0018	EXP 150 of 150	0.8173375 ± 0.0164296	0.0064	EXP 150 of 150	19.365493 ± 0.018970	0.9978	EXP 150 of 150
16D10168	4.0 %	0.0109560 ± 0.0002019	0.8549	EXP 150 of 150	0.3291937 ± 0.0169716	0.0007	EXP 149 of 150	0.0290035 ± 0.0164698	0.0009	EXP 150 of 150	0.5961211 ± 0.0155731	0.0162	EXP 150 of 150	9.926340 ± 0.017186	0.9983	EXP 150 of 150
16D10170	4.5 %	0.0134788 ± 0.0002082	0.8161	EXP 150 of 150	0.4763988 ± 0.0160528	0.0044	EXP 150 of 150	0.0557600 ± 0.0149870	0.0010	EXP 149 of 150	0.8145781 ± 0.0142929	0.0096	EXP 150 of 150	13.364638 ± 0.017239	0.9979	EXP 150 of 150
16D10171	6.1 %	0.0445777 ± 0.0003661	0.4468	EXP 150 of 150	2.6574028 ± 0.0187455	0.4176	EXP 150 of 150	0.3615474 ± 0.0169140	0.0075	EXP 150 of 150	6.6067754 ± 0.0153327	0.8564	EXP 150 of 150	106.297894 ± 0.024363	0.7985	EXP 149 of 150
16D10172	7.3 %	0.0722383 ± 0.0004413	0.6249	EXP 150 of 150	10.5436760 ± 0.0197925	0.9104	EXP 150 of 150	1.7501504 ± 0.0174009	0.2911	EXP 150 of 150	30.2598174 ± 0.0170980	0.9927	EXP 150 of 150	460.508222 ± 0.034705	0.9996	EXP 150 of 150
16D10174	10.0 %	0.2502888 ± 0.0008127	0.5087	EXP 148 of 150	41.6507701 ± 0.0203339	0.9934	EXP 150 of 150	7.2720214 ± 0.0181932	0.8624	EXP 150 of 150	124.6840132 ± 0.0220395	0.9993	EXP 150 of 150	1900.887572 ± 0.080132	0.9999	EXP 150 of 150
16D10175	11.0 %	0.1966291 ± 0.0007417	0.7426	EXP 149 of 150	39.9099881 ± 0.0193215	0.9936	EXP 150 of 150	6.8548444 ± 0.0171907	0.8488	EXP 150 of 150	118.7760123 ± 0.0221397	0.9992	EXP 150 of 150	1796.254071 ± 0.067756	0.9999	EXP 150 of 150
16D10176	12.0 %	0.2709615 ± 0.0008250	0.7071	EXP 150 of 150	50.5922834 ± 0.0192143	0.9960	EXP 150 of 150	8.7928374 ± 0.0180550	0.8921	EXP 150 of 150	151.6263157 ± 0.0202495	0.9996	EXP 150 of 150	2302.550327 ± 0.073956	0.9999	EXP 150 of 150
16D10178	13.0 %	0.2213148 ± 0.0008031	0.8036	EXP 150 of 150	46.7578924 ± 0.0220713	0.9939	EXP 150 of 150	8.0812590 ± 0.0178171	0.8780	EXP 150 of 150	140.3011926 ± 0.0255784	0.9993	EXP 150 of 150	2119.932731 ± 0.067520	0.9999	EXP 150 of 150
16D10179	14.0 %	0.2880582 ± 0.0008390	0.7575	EXP 150 of 150	54.1176743 ± 0.0236046	0.9948	EXP 150 of 150	9.2895007 ± 0.0189785	0.8910	EXP 150 of 150	161.5326895 ± 0.0259494	0.9994	EXP 150 of 150	2453.143517 ± 0.080931	0.9999	EXP 150 of 150
16D10180	15.0 %	0.1549164 ± 0.0006680	0.8828	EXP 150 of 150	36.0901986 ± 0.0232014	0.9889	EXP 150 of 150	6.0995964 ± 0.0164754	0.8368	EXP 150 of 150	107.0696450 ± 0.0211971	0.9991	EXP 150 of 150	1613.143152 ± 0.064740	0.9999	EXP 150 of 150
16D10182	16.0 %	0.1146868 ± 0.0005709	0.8531	EXP 150 of 150	25.2625635 ± 0.0188207	0.9841	EXP 150 of 150	4.0939714 ± 0.0173633	0.6560	EXP 150 of 150	74.4247906 ± 0.0198013	0.9984	EXP 150 of 150	1124.037876 ± 0.057298	0.9998	EXP 150 of 150
16D10183	17.0 %	0.1203973 ± 0.0006225	0.8202	EXP 150 of 150	26.3157348 ± 0.0182678	0.9866	EXP 149 of 150	4.3158027 ± 0.0173185	0.7233	EXP 150 of 150	77.5500096 ± 0.0216874	0.9983	EXP 150 of 150	1171.776409 ± 0.051957	0.9999	EXP 150 of 150
16D10184	18.0 %	0.0225779 ± 0.0002863	0.9040	EXP 150 of 150	3.8497934 ± 0.0185068	0.5451	EXP 150 of 150	0.6472275 ± 0.0164462	0.0047	EXP 150 of 150	11.5963915 ± 0.0151057	0.9486	EXP 150 of 150	176.822983 ± 0.035491	0.9500	EXP 150 of 150
16D10186	20.0 %	0.0096954 ± 0.0001989	0.9244	EXP 150 of 150	1.3910718 ± 0.0188312	0.0968	EXP 149 of 150	0.2478916 ± 0.0173432	0.0004	EXP 150 of 150	4.2199565 ± 0.0154371	0.6741	EXP 150 of 150	64.515274 ± 0.019918	0.9979	EXP 150 of 150
16D10187	22.0 %	0.0069172 ± 0.0001706	0.9374	EXP 150 of 150	0.6780787 ± 0.0190310	0.0050	EXP 150 of 150	0.1447132 ± 0.0171179	0.0010	EXP 150 of 150	2.1130840 ± 0.0147735	0.0776	EXP 150 of 150	33.097432 ± 0.019283	0.9987	EXP 150 of 150
16D10189	24.0 %	0.0067845 ± 0.0001959	0.9059	EXP 150 of 150	0.7832094 ± 0.0176121	0.0910	EXP 150 of 150	0.1585328 ± 0.0156555	0.0107	EXP 150 of 150	2.3317924 ± 0.0152519	0.2482	EXP 150 of 150	35.856658 ± 0.018931	0.9983	EXP 150 of 150

Project Info		Analyst	Irradiation	X-pos	Y-pos	Z/H-pos	Project	Experiment	Nmb
16D10164	2.0 %	Kevin Konrad	15-OSU-06	0.00	0.00	42.13	French Polynesia\Rurutu (13-INT-08)	16D10160	01
16D10166	2.4 %	Kevin Konrad	15-OSU-06	0.00	0.00	42.13	French Polynesia\Rurutu (13-INT-08)	16D10160	01
16D10167	3.2 %	Kevin Konrad	15-OSU-06	0.00	0.00	42.13	French Polynesia\Rurutu (13-INT-08)	16D10160	01
16D10168	4.0 %	Kevin Konrad	15-OSU-06	0.00	0.00	42.13	French Polynesia\Rurutu (13-INT-08)	16D10160	01
16D10170	4.5 %	Kevin Konrad	15-OSU-06	0.00	0.00	42.13	French Polynesia\Rurutu (13-INT-08)	16D10160	01
16D10171	6.1 %	Kevin Konrad	15-OSU-06	0.00	0.00	42.13	French Polynesia\Rurutu (13-INT-08)	16D10160	01
16D10172	7.3 %	Kevin Konrad	15-OSU-06	0.00	0.00	42.13	French Polynesia\Rurutu (13-INT-08)	16D10160	01
16D10174	10.0 %	Kevin Konrad	15-OSU-06	0.00	0.00	42.13	French Polynesia\Rurutu (13-INT-08)	16D10160	01
16D10175	11.0 %	Kevin Konrad	15-OSU-06	0.00	0.00	42.13	French Polynesia\Rurutu (13-INT-08)	16D10160	01
16D10176	12.0 %	Kevin Konrad	15-OSU-06	0.00	0.00	42.13	French Polynesia\Rurutu (13-INT-08)	16D10160	01
16D10178	13.0 %	Kevin Konrad	15-OSU-06	0.00	0.00	42.13	French Polynesia\Rurutu (13-INT-08)	16D10160	01
16D10179	14.0 %	Kevin Konrad	15-OSU-06	0.00	0.00	42.13	French Polynesia\Rurutu (13-INT-08)	16D10160	01
16D10180	15.0 %	Kevin Konrad	15-OSU-06	0.00	0.00	42.13	French Polynesia\Rurutu (13-INT-08)	16D10160	01
16D10182	16.0 %	Kevin Konrad	15-OSU-06	0.00	0.00	42.13	French Polynesia\Rurutu (13-INT-08)	16D10160	01
16D10183	17.0 %	Kevin Konrad	15-OSU-06	0.00	0.00	42.13	French Polynesia\Rurutu (13-INT-08)	16D10160	01
16D10184	18.0 %	Kevin Konrad	15-OSU-06	0.00	0.00	42.13	French Polynesia\Rurutu (13-INT-08)	16D10160	01
16D10186	20.0 %	Kevin Konrad	15-OSU-06	0.00	0.00	42.13	French Polynesia\Rurutu (13-INT-08)	16D10160	01
16D10187	22.0 %	Kevin Konrad	15-OSU-06	0.00	0.00	42.13	French Polynesia\Rurutu (13-INT-08)	16D10160	01
16D10189	24.0 %	Kevin Konrad	15-OSU-06	0.00	0.00	42.13	French Polynesia\Rurutu (13-INT-08)	16D10160	01

Sample Parameters	Sample	Material	Location	Standard Name	Standard (in Ma)	%1σ	Standard Reference	Standard 40Ar/39Ar	%1σ	J	%1σ	Air 40Ar/36Ar	%1σ	MDF (lin)	%1σ	Volume Ratio	Sensitivity (mol/volt)	Day	Month	Year	Hour	Min	Resist	
16D10164	2.0 %	RR1310-D27-64	Hornblende	Samoa	FCT-NM (6A20-15)	28.201	0.082	Kuiper et al (2008)	9.24573	0.133	0.00169996	0.133	304.94	0.199	0.99225077	0.076	1	4.8E-14	12	MAR	2016	5	22	1
16D10166	2.4 %	RR1310-D27-64	Hornblende	Samoa	FCT-NM (6A20-15)	28.201	0.082	Kuiper et al (2008)	9.24573	0.133	0.00169996	0.133	304.94	0.199	0.99225077	0.076	1	4.8E-14	12	MAR	2016	5	39	1
16D10167	3.2 %	RR1310-D27-64	Hornblende	Samoa	FCT-NM (6A20-15)	28.201	0.082	Kuiper et al (2008)	9.24573	0.133	0.00169996	0.133	304.94	0.199	0.99225077	0.076	1	4.8E-14	12	MAR	2016	5	47	1
16D10168	4.0 %	RR1310-D27-64	Hornblende	Samoa	FCT-NM (6A20-15)	28.201	0.082	Kuiper et al (2008)	9.24573	0.133	0.00169996	0.133	304.94	0.199	0.99225077	0.076	1	4.8E-14	12	MAR	2016	5	56	1
16D10170	4.5 %	RR1310-D27-64	Hornblende	Samoa	FCT-NM (6A20-15)	28.201	0.082	Kuiper et al (2008)	9.24573	0.133	0.00169996	0.133	304.94	0.199	0.99225077	0.076	1	4.8E-14	12	MAR	2016	6	13	1
16D10171	6.1 %	RR1310-D27-64	Hornblende	Samoa	FCT-NM (6A20-15)	28.201	0.082	Kuiper et al (2008)	9.24573	0.133	0.00169996	0.133	304.94	0.199	0.99225077	0.076	1	4.8E-14	12	MAR	2016	6	21	1
16D10172	7.3 %	RR1310-D27-64	Hornblende	Samoa	FCT-NM (6A20-15)	28.201	0.082	Kuiper et al (2008)	9.24573	0.133	0.00169996	0.133	304.94	0.199	0.99225077	0.076	1	4.8E-14	12	MAR	2016	6	30	1
16D10174	10.0 %	RR1310-D27-64	Hornblende	Samoa	FCT-NM (6A20-15)	28.201	0.082	Kuiper et al (2008)	9.24573	0.133	0.00169996	0.133	304.94	0.199	0.99225077	0.076	1	4.8E-14	12	MAR	2016	6	47	1
16D10175	11.0 %	RR1310-D27-64	Hornblende	Samoa	FCT-NM (6A20-15)	28.201	0.082	Kuiper et al (2008)	9.24573	0.133	0.00169996	0.133	304.94	0.199	0.99225077	0.076	1	4.8E-14	12	MAR	2016	6	55	1
16D10176	12.0 %	RR1310-D27-64	Hornblende	Samoa	FCT-NM (6A20-15)	28.201	0.082	Kuiper et al (2008)	9.24573	0.133	0.00169996	0.133	304.94	0.199	0.99225077	0.076	1	4.8E-14	12	MAR	2016	7	4	1
16D10178	13.0 %	RR1310-D27-64	Hornblende	Samoa	FCT-NM (6A20-15)	28.201	0.082	Kuiper et al (2008)	9.24573	0.133	0.00169996	0.133	304.94	0.199	0.99225077	0.076	1	4.8E-14	12	MAR	2016	7	21	1
16D10179	14.0 %	RR1310-D27-64	Hornblende	Samoa	FCT-NM (6A20-15)	28.201	0.082	Kuiper et al (2008)	9.24573	0.133	0.00169996	0.133	304.94	0.199	0.99225077	0.076	1	4.8E-14	12	MAR	2016	7	29	1
16D10180	15.0 %	RR1310-D27-64	Hornblende	Samoa	FCT-NM (6A20-15)	28.201	0.082	Kuiper et al (2008)	9.24573	0.133	0.00169996	0.133	304.94	0.199	0.99225077	0.076	1	4.8E-14	12	MAR	2016	7	37	1
16D10182	16.0 %	RR1310-D27-64	Hornblende	Samoa	FCT-NM (6A20-15)	28.201	0.082	Kuiper et al (2008)	9.24573	0.133	0.00169996	0.133	304.94	0.199	0.99225077	0.076	1	4.8E-14	12	MAR	2016	7	54	1
16D10183	17.0 %	RR1310-D27-64	Hornblende	Samoa	FCT-NM (6A20-15)	28.201	0.082	Kuiper et al (2008)	9.24573	0.133	0.00169996	0.133	304.94	0.199	0.99225077	0.076	1	4.8E-14	12	MAR	2016	8	3	1
16D10184	18.0 %	RR1310-D27-64	Hornblende	Samoa	FCT-NM (6A20-15)	28.201	0.082	Kuiper et al (2008)	9.24573	0.133	0.00169996	0.133	304.94	0.199	0.99225077	0.076	1	4.8E-14	12	MAR	2016	8	11	1
16D10186	20.0 %	RR1310-D27-64	Hornblende	Samoa	FCT-NM (6A20-15)	28.201	0.082	Kuiper et al (2008)	9.24573	0.133	0.00169996	0.133	304.94	0.199	0.99225077	0.076	1	4.8E-14	12	MAR	2016	8	28	1
16D10187	22.0 %	RR1310-D27-64	Hornblende	Samoa	FCT-NM (6A20-15)	28.201	0.082	Kuiper et al (2008)	9.24573	0.133	0.00169996	0.133	304.94	0.199	0.99225077	0.076	1	4.8E-14	12	MAR	2016	8	37	1
16D10189	24.0 %	RR1310-D27-64	Hornblende	Samoa	FCT-NM (6A20-15)	28.201	0.082	Kuiper et al (2008)	9.24573	0.133	0.00169996	0.133	304.94	0.199	0.99225077	0.076	1	4.8E-14	12	MAR	2016	8	54	1

<b>Irradiation Constants</b>		<b>40/36(a)</b>	<b>%1σ</b>	<b>40/36(c)</b>	<b>%1σ</b>	<b>38/36(a)</b>	<b>%1σ</b>	<b>38/36(c)</b>	<b>%1σ</b>	<b>39/37(ca)</b>	<b>%1σ</b>	<b>38/37(ca)</b>	<b>%1σ</b>	<b>36/37(ca)</b>	<b>%1σ</b>	<b>40/39(k)</b>	<b>%1σ</b>	<b>38/39(k)</b>	<b>%1σ</b>	<b>36/38(cl)</b>	<b>%1σ</b>	<b>K/Ca</b>	<b>%1σ</b>	<b>K/Cl</b>	<b>%1σ</b>	<b>Ca/Cl</b>	<b>%1σ</b>
16D10164	2.0 %	295.5	0	0.018	35	0.1869	0	1.493	3	0.0006756	1.32	0.0000718	12.82	0.0002663	0.15	0.003823	2.66	0.012031	0.16	0	0	0.43	0	0	0	0	0
16D10166	2.4 %	295.5	0	0.018	35	0.1869	0	1.493	3	0.0006756	1.32	0.0000718	12.82	0.0002663	0.15	0.003823	2.66	0.012031	0.16	0	0	0.43	0	0	0	0	0
16D10167	3.2 %	295.5	0	0.018	35	0.1869	0	1.493	3	0.0006756	1.32	0.0000718	12.82	0.0002663	0.15	0.003823	2.66	0.012031	0.16	0	0	0.43	0	0	0	0	0
16D10168	4.0 %	295.5	0	0.018	35	0.1869	0	1.493	3	0.0006756	1.32	0.0000718	12.82	0.0002663	0.15	0.003823	2.66	0.012031	0.16	0	0	0.43	0	0	0	0	0
16D10170	4.5 %	295.5	0	0.018	35	0.1869	0	1.493	3	0.0006756	1.32	0.0000718	12.82	0.0002663	0.15	0.003823	2.66	0.012031	0.16	0	0	0.43	0	0	0	0	0
16D10171	6.1 %	295.5	0	0.018	35	0.1869	0	1.493	3	0.0006756	1.32	0.0000718	12.82	0.0002663	0.15	0.003823	2.66	0.012031	0.16	0	0	0.43	0	0	0	0	0
16D10172	7.3 %	295.5	0	0.018	35	0.1869	0	1.493	3	0.0006756	1.32	0.0000718	12.82	0.0002663	0.15	0.003823	2.66	0.012031	0.16	0	0	0.43	0	0	0	0	0
16D10174	10.0 %	295.5	0	0.018	35	0.1869	0	1.493	3	0.0006756	1.32	0.0000718	12.82	0.0002663	0.15	0.003823	2.66	0.012031	0.16	0	0	0.43	0	0	0	0	0
16D10175	11.0 %	295.5	0	0.018	35	0.1869	0	1.493	3	0.0006756	1.32	0.0000718	12.82	0.0002663	0.15	0.003823	2.66	0.012031	0.16	0	0	0.43	0	0	0	0	0
16D10176	12.0 %	295.5	0	0.018	35	0.1869	0	1.493	3	0.0006756	1.32	0.0000718	12.82	0.0002663	0.15	0.003823	2.66	0.012031	0.16	0	0	0.43	0	0	0	0	0
16D10178	13.0 %	295.5	0	0.018	35	0.1869	0	1.493	3	0.0006756	1.32	0.0000718	12.82	0.0002663	0.15	0.003823	2.66	0.012031	0.16	0	0	0.43	0	0	0	0	0
16D10179	14.0 %	295.5	0	0.018	35	0.1869	0	1.493	3	0.0006756	1.32	0.0000718	12.82	0.0002663	0.15	0.003823	2.66	0.012031	0.16	0	0	0.43	0	0	0	0	0
16D10180	15.0 %	295.5	0	0.018	35	0.1869	0	1.493	3	0.0006756	1.32	0.0000718	12.82	0.0002663	0.15	0.003823	2.66	0.012031	0.16	0	0	0.43	0	0	0	0	0
16D10182	16.0 %	295.5	0	0.018	35	0.1869	0	1.493	3	0.0006756	1.32	0.0000718	12.82	0.0002663	0.15	0.003823	2.66	0.012031	0.16	0	0	0.43	0	0	0	0	0
16D10183	17.0 %	295.5	0	0.018	35	0.1869	0	1.493	3	0.0006756	1.32	0.0000718	12.82	0.0002663	0.15	0.003823	2.66	0.012031	0.16	0	0	0.43	0	0	0	0	0
16D10184	18.0 %	295.5	0	0.018	35	0.1869	0	1.493	3	0.0006756	1.32	0.0000718	12.82	0.0002663	0.15	0.003823	2.66	0.012031	0.16	0	0	0.43	0	0	0	0	0
16D10186	20.0 %	295.5	0	0.018	35	0.1869	0	1.493	3	0.0006756	1.32	0.0000718	12.82	0.0002663	0.15	0.003823	2.66	0.012031	0.16	0	0	0.43	0	0	0	0	0
16D10187	22.0 %	295.5	0	0.018	35	0.1869	0	1.493	3	0.0006756	1.32	0.0000718	12.82	0.0002663	0.15	0.003823	2.66	0.012031	0.16	0	0	0.43	0	0	0	0	0
16D10189	24.0 %	295.5	0	0.018	35	0.1869	0	1.493	3	0.0006756	1.32	0.0000718	12.82	0.0002663	0.15	0.003823	2.66	0.012031	0.16	0	0	0.43	0	0	0	0	0

**16D10160.AGE >>> RR1310-D27-64 >>> FRENCH POLYNESIA | RURUTU (13-INT-08) PROJECT**



**Ar-Ages in Ma**

**WEIGHTED PLATEAU**  
 $45.15 \pm 0.12$

**TOTAL FUSION**  
 $45.13 \pm 0.12$

**NORMAL ISOCHRON**  
 $44.99 \pm 0.17$

**INVERSE ISOCHRON**  
 $45.14 \pm 0.14$

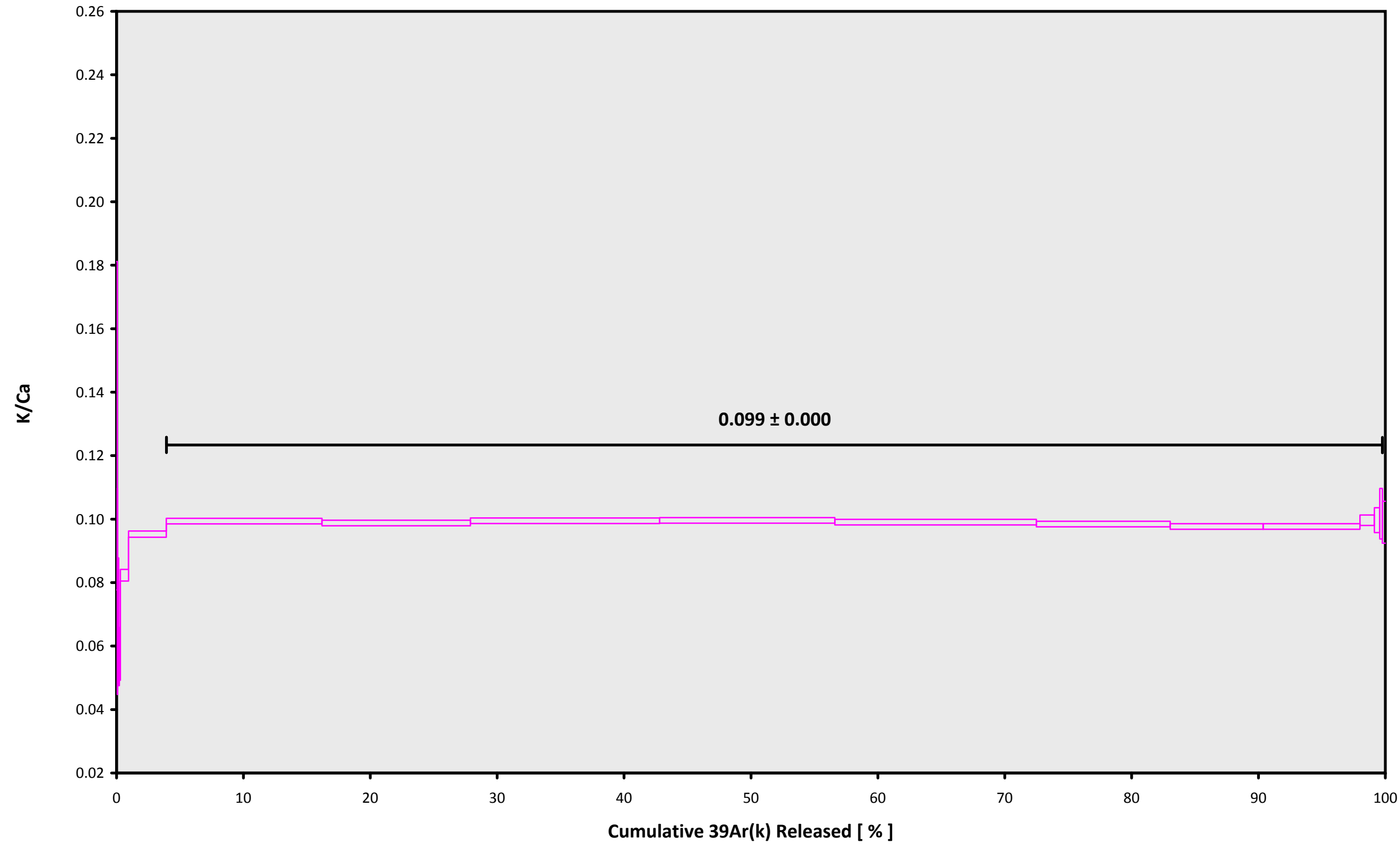
**MSWD (PROBABILITY)**  
 $0.48$  (90%)

**Sample Info**

Hornblende  
Samoa  
Kevin Konrad

IRR = 15-OSU-06 (6A20-15)  
J =  $0.00169996 \pm 0.00000226$

16D10160.AGE >>> RR1310-D27-64 >>> FRENCH POLYNESIA | RURUTU (13-INT-08) PROJECT



**Ar-Ages in Ma**

**WEIGHTED PLATEAU**

$45.15 \pm 0.12$

**TOTAL FUSION**

$45.13 \pm 0.12$

**NORMAL ISOCHRON**

$44.99 \pm 0.17$

**INVERSE ISOCHRON**

$45.14 \pm 0.14$

**Sample Info**

Hornblende

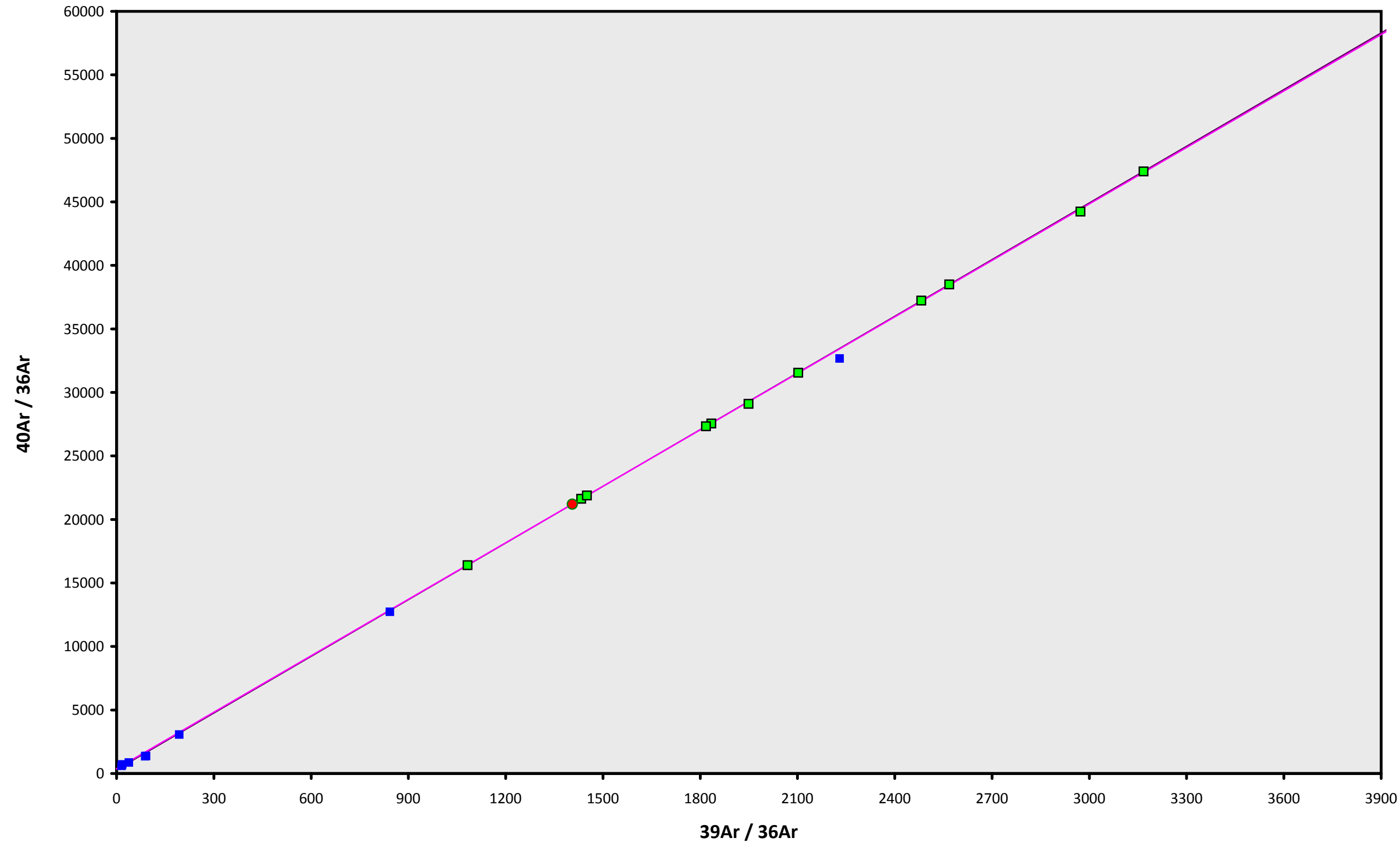
Samoa

Kevin Konrad

IRR = 15-OSU-06 (6A20-15)

J =  $0.00169996 \pm 0.00000226$

16D10160.AGE >>> RR1310-D27-64 >>> FRENCH POLYNESIA | RURUTU (13-INT-08) PROJECT



Ar-Ages in Ma

WEIGHTED PLATEAU

45.15 ± 0.12

TOTAL FUSION

45.13 ± 0.12

NORMAL ISOCHRON

44.99 ± 0.17

INVERSE ISOCHRON

45.14 ± 0.14

MSWD (PROBABILITY)

2.02 (3%)

40AR/36AR INTERCEPT

382.2 ± 66.3

Sample Info

Hornblende

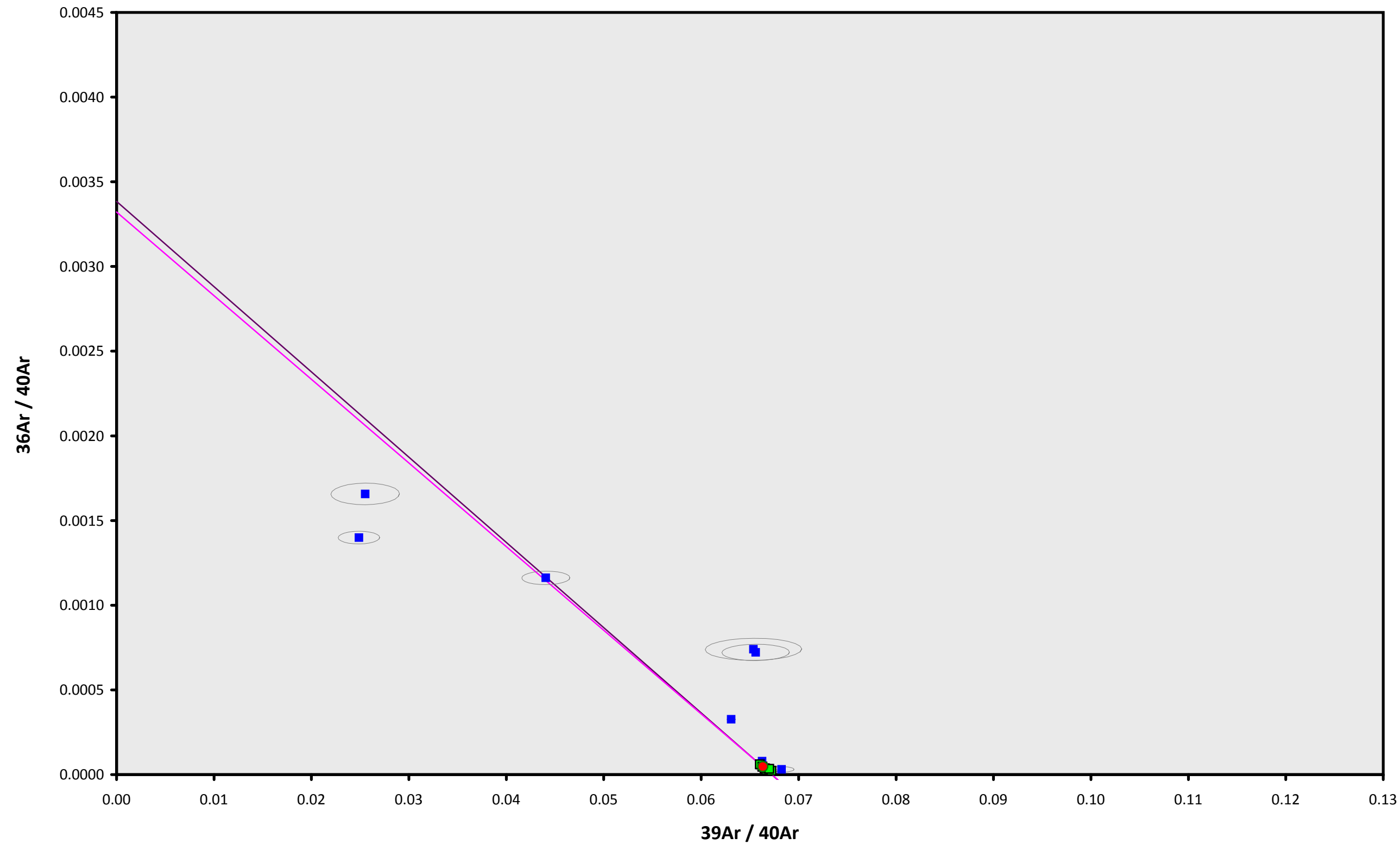
Samoa

Kevin Konrad

IRR = 15-OSU-06 (6A20-15)

J = 0.00169996 ± 0.00000226

16D10160.AGE >>> RR1310-D27-64 >>> FRENCH POLYNESIA | RURUTU (13-INT-08) PROJECT



Ar-Ages in Ma

WEIGHTED PLATEAU

45.15 ± 0.12

TOTAL FUSION

45.13 ± 0.12

NORMAL ISOCHRON

44.99 ± 0.17

INVERSE ISOCHRON

45.14 ± 0.14

MSWD (PROBABILITY)

0.53 (86%)

SPREADING FACTOR

1.8%

40AR/36AR INTERCEPT

301.1 ± 45.1

Sample Info

Hornblende

Samoa

Kevin Konrad

IRR = 15-OSU-06 (6A20-15)

J = 0.00169996 ± 0.00000226