

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
14D27857	12.0 %	0.0018992	49.754	2.057753	146.701	0.0088633	420.435	0.1429338	25.214	1.44941	2.652	7.41531 ± 6.43678	23.75 ± 20.48	72.41	1.85	0.0296 ± 0.0881
14D27858	14.0 %	✓ 0.0048117	19.802	7.869384	38.294	0.0575965	69.288	1.2847447	2.792	22.09866	0.192	16.64451 ± 1.09960	52.87 ± 3.44	96.37	16.75	0.0699 ± 0.0537
14D27860	15.0 %	✓ 0.0049701	19.116	2.325965	127.959	0.0241409	167.982	1.0499051	3.433	18.14824	0.221	16.08239 ± 1.31129	51.11 ± 4.11	92.90	13.72	0.1938 ± 0.4962
14D27861	16.0 %	✓ 0.0022846	40.906	0.021716	#####	0.0322324	120.782	0.3079669	12.000	5.42343	0.703	15.43028 ± 4.43889	49.07 ± 13.93	87.62	4.03	6.0977 #####
14D27863	17.0 %	✓ 0.0008125	116.187	2.769508	111.188	0.0009308	4144.863	0.0888835	42.279	1.49702	2.680	16.94637 ± 16.96757	53.82 ± 53.09	98.50	1.14	0.0135 ± 0.0322
14D27864	18.0 %	✓ 0.0005393	176.646	1.777316	174.332	0.0028271	1313.603	0.1103194	33.704	1.33876	2.874	12.08646 ± 10.73066	38.55 ± 33.86	98.51	1.43	0.0264 ± 0.0938
14D27866	20.0 %	✓ 0.0030640	31.065	3.282887	97.191	0.0488196	78.062	0.6752774	5.282	11.12512	0.344	15.57016 ± 2.00047	49.51 ± 6.27	94.20	8.81	0.0882 ± 0.1716
14D27867	22.0 %	✓ 0.0068183	14.132	20.233140	15.375	0.0281313	137.749	1.8867177	1.976	31.82898	0.125	16.76391 ± 0.78058	53.25 ± 2.44	98.65	24.52	0.0398 ± 0.0123
14D27869	24.0 %	✓ 0.0083909	11.645	22.336503	13.358	0.0638308	60.180	2.1353492	1.795	36.79429	0.109	17.01120 ± 0.70980	54.02 ± 2.22	98.03	27.75	0.0408 ± 0.0110
	Σ	0.0335905	8.506	62.674173	14.718	0.2439919	47.511	7.6820976	1.436	129.70393	0.091					

Information on Analysis and Constants Used in Calculations

Project = RURUTU (13-INT-08)
Sample = RR1310-D11-10
Material = Hornblende
Location = Rurutu Hotspot
Region = Tuvalu
Analyst = Kevin Konrad
Irradiation = 14-OSU-02 (2A19-14)
Position = X: 0 | Y: 0 | Z/H: 23.7 mm
FCT-NM Age = 28.201 ± 0.023 Ma
FCT-NM Reference = Kuiper et al. (2008)
FCT-NM 40Ar/39Ar Ratio = 8.81730 ± 0.00838
FCT-NM J-value = 0.00178256 ± 0.00000169
Air Shot 40Ar/36Ar = 303.8220 ± 0.4527
Air Shot MDF = 0.99314339 ± 0.00068158 (LIN)
Experiment Type = Incremental Heating
Extraction Method = Bulk Laser Heating
Heating = 77 sec
Isolation = 3.00 min
Instrument = ARGUS-VI-D
Preferred Age = Plateau Age
Age Classification = Eruption Age
IGSN = IEKK1-RR1310-D11-10AM2
Rock Class = Igneous>Volcanic
Lithology = Basalt
Lat-Lon = 8°15.2'S - 177°00.9'E

Age Equations = Min et al. (2000)
Negative Intensities = Allowed
Collector Calibrations = 40Ar 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(EC,β*) = 0.580 ± 0.009 E-10 1/a
Decay 40K(β*) = 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
Age Plateau		16.68719 ± 0.43244 ± 2.59%	53.01 ± 1.36 ± 2.56%	0.58	98.15	0.0395 ± 0.0078
			Full External Error ± 1.80	78%	8	
			Analytical Error ± 1.35	1.0000	2σ Confidence Limit	Error Magnification
Total Fusion Age		16.32216 ± 0.55583 ± 3.41%	51.86 ± 1.74 ± 3.36%		9	0.0524 ± 0.0155
			Full External Error ± 2.10			
			Analytical Error ± 1.74			
Normal Isochron	575.40 ± 638.76	14.99748 ± 2.16510 ± 14.44%	47.71 ± 6.80 ± 14.25%	0.67	98.15	
No Convergence	#####			67%	8	
			Full External Error ± 6.88	2.15	2σ Confidence Limit	
			Analytical Error ± 6.80	1.0000	Error Magnification	
				100	Number of Iterations	
				0.0062474397	Convergence	
Inverse Isochron	30.16 ± 43.28	17.13658 ± 0.64914 ± 3.79%	54.41 ± 2.03 ± 3.74%	0.32	98.15	
	#####			93%	8	
			Full External Error ± 2.37	2.15	2σ Confidence Limit	
			Analytical Error ± 2.03	1.0000	Error Magnification	
				10	Number of Iterations	
Notes				0.0000070539	Convergence	
				37%	Spreading Factor	
A small batch of hornblende that did not degass until higher temperatures. Produced a reliable plateau but contained a non-atmospheric intercept. The large errors on the plateau and intercept do overlap slightly and thus the age is deemed reliable albite						

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
14D27857	12.0 %	0.0013512	2.057753	0.0000000	0.1415436	1.04959	23.75 ± 20.48	72.41	1.85	0.0296 ± 0.0881
14D27858	14.0 %	✓ 0.0027016	7.869384	0.0411338	1.2794281	21.29545	52.87 ± 3.44	96.37	16.75	0.0699 ± 0.0537
14D27860	15.0 %	✓ 0.0043469	2.325965	0.0105489	1.0483337	16.85971	51.11 ± 4.11	92.90	13.72	0.1938 ± 0.4962
14D27861	16.0 %	✓ 0.0022689	0.021716	0.0281018	0.3079522	4.75179	49.07 ± 13.93	87.62	4.03	6.0977 #####
14D27863	17.0 %	✓ 0.0000749	2.769508	0.0000000	0.0870125	1.47455	53.82 ± 53.09	98.50	1.14	0.0135 ± 0.0322
14D27864	18.0 %	✓ 0.0000660	1.777316	0.0000000	0.1091186	1.31886	38.55 ± 33.86	98.51	1.43	0.0264 ± 0.0938
14D27866	20.0 %	✓ 0.0021756	3.282887	0.0400797	0.6730595	10.47964	49.51 ± 6.27	94.20	8.81	0.0882 ± 0.1716
14D27867	22.0 %	✓ 0.0014288	20.233140	0.0038768	1.8730482	31.39961	53.25 ± 2.44	98.65	24.52	0.0398 ± 0.0123
14D27869	24.0 %	✓ 0.0024299	22.336503	0.0362641	2.1202587	36.06815	54.02 ± 2.22	98.03	27.75	0.0408 ± 0.0110
Σ		0.0168439	62.674173	0.1600051	7.6397550	124.69734				

Information on Analysis	Results	40(r)/39(k) ± 2σ	Age ± 2σ (Ma)	MSWD	39Ar(k) (%,n)	K/Ca ± 2σ
Project = RURUTU (13-INT-08) Sample = RR1310-D11-10 Material = Hornblende Location = Rurutu Hotspot Region = Tuvalu Analyst = Kevin Konrad Irradiation = 14-OSU-02 (2A19-14) J = 0.00178256 ± 0.00000169 FCT-NM = 28.201 ± 0.023 Ma	Age Plateau	16.68719 ± 0.43244 ± 2.59%	53.01 ± 1.36 ± 2.56%	0.58 78%	98.15 8	0.0395 ± 0.0078
			Full External Error ± 1.80 Analytical Error ± 1.35	2.07 1.0000	2σ Confidence Limit Error Magnification	
	Total Fusion Age	16.32216 ± 0.55583 ± 3.41%	51.86 ± 1.74 ± 3.36%		9	0.0524 ± 0.0155
			Full External Error ± 2.10 Analytical Error ± 1.74			

Normal Isochron			39(k)/36(a) ± 2σ	40(a+r)/36(a) ± 2σ	r.i.
14D27857	12.0 %		104.75 ± 199.64	1072.28 ± 1969.83	0.9631
14D27858	14.0 %	✓	473.58 ± 437.59	8178.02 ± 7542.63	0.9981
14D27860	15.0 %	✓	241.17 ± 138.30	4174.02 ± 2376.35	0.9927
14D27861	16.0 %	✓	135.73 ± 154.64	2389.79 ± 2661.76	0.9774
14D27863	17.0 %	✓	1161.11 ± 38761.24	19972.18 ± 666503.95	0.9997
14D27864	18.0 %	✓	1654.42 ± 63232.77	20291.53 ± 775431.78	0.9998
14D27866	20.0 %	✓	309.36 ± 364.36	5112.31 ± 5996.70	0.9959
14D27867	22.0 %	✓	1310.91 ± 2332.47	22271.52 ± 39617.26	0.9997
14D27869	24.0 %	✓	872.56 ± 905.11	15138.86 ± 15694.07	0.9994

Results	40(a)/36(a) ± 2σ	40(r)/39(k) ± 2σ	Age ± 2σ (Ma)	MSWD
Normal Isochron No Convergence	575.40 ± 638.76 ± 111.01%	14.99748 ± 2.16510 ± 14.44%	47.71 ± 6.80 ± 14.25%	0.67 67%
			Full External Error ± 6.88 Analytical Error ± 6.80	
Statistics	2σ Confidence Limit Error Magnification Number of Data Points	2.15 1.0000 8	Convergence Number of Iterations Calculated Line	0.006247439730 100 Weighted York-2

Inverse Isochron		39(k)/40(a+r) ± 2σ	36(a)/40(a+r) ± 2σ	r.i.
14D27857	12.0 %	0.0976922 ± 0.0500961	0.00093259 ± 0.00171323	0.0030
14D27858	14.0 %	0.0579090 ± 0.0032593	0.00012228 ± 0.00011278	0.0003
14D27860	15.0 %	0.0577778 ± 0.0039878	0.00023958 ± 0.00013640	0.0005
14D27861	16.0 %	0.0567941 ± 0.0136781	0.00041845 ± 0.00046607	0.0007
14D27863	17.0 %	0.0581366 ± 0.0503897	0.00005007 ± 0.00167090	0.0001
14D27864	18.0 %	0.0815323 ± 0.0558489	0.00004928 ± 0.00188328	0.0001
14D27866	20.0 %	0.0605131 ± 0.0064393	0.00019561 ± 0.00022945	0.0004
14D27867	22.0 %	0.0588605 ± 0.0023514	0.00004490 ± 0.00007987	0.0001
14D27869	24.0 %	0.0576374 ± 0.0020900	0.00006606 ± 0.00006848	0.0001

Results	40(a)/36(a) ± 2σ	40(r)/39(k) ± 2σ	Age ± 2σ (Ma)	MSWD
Inverse Isochron	30.16 ± 43.28 ± 143.52%	17.13658 ± 0.64914 ± 3.79%	54.41 ± 2.03 ± 3.74% Full External Error ± 2.37 Analytical Error ± 2.03	0.32 93%
Statistics	2σ Confidence Limit Error Magnification Number of Data Points Spreading Factor	2.15 1.0000 8 36.9%	Convergence Number of Iterations Calculated Line	0.000070539 10 Weighted York-2

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
14D27857	12.0 %	0.0013512	91.81	0.0000000	0.00	0.0005480	146.70	0.0000000	0.00	2.057753	146.70	0.0002525	91.81	0.0000000	0.00	0.0017029	25.50	0.0001477	147.26	0.0000000	0.00	0.1415436	25.50	0.0013902	146.71	1.04959	35.12	0.3992830	91.81	0.0000000	0.00	0.0005411	25.64
14D27858	14.0 %	✓ 0.0027016	46.11	0.0000000	0.00	0.0020956	38.29	0.0000145	97.04	7.869384	38.29	0.0005049	46.11	0.0000000	0.00	0.0153928	2.81	0.0005650	40.38	0.0411338	97.04	1.2794281	2.81	0.0053166	38.32	21.29545	1.74	0.7983235	46.11	0.0000000	0.00	0.0048913	3.87
14D27860	15.0 %	✓ 0.0043469	28.47	0.0000000	0.00	0.0006194	127.96	0.0000037	384.48	2.325965	127.96	0.0008124	28.47	0.0000000	0.00	0.0126125	3.45	0.0001670	128.60	0.0105489	384.48	1.0483337	3.44	0.0015714	127.97	16.85971	2.18	1.2845208	28.47	0.0000000	0.00	0.0040078	4.35
14D27861	16.0 %	✓ 0.0022689	55.69	0.0000000	0.00	0.0000058	#####	0.00000099	138.56	0.021716	#####	0.0004241	55.69	0.0000000	0.00	0.0037050	12.02	0.0000016	#####	0.0281018	138.56	0.3079522	12.02	0.0000147	#####	4.75179	7.90	0.6704684	55.69	0.0000000	0.00	0.0011773	12.31
14D27863	17.0 %	✓ 0.0000749	#####	0.0000000	0.00	0.0007375	111.19	0.0000000	0.00	2.769508	111.19	0.0000140	#####	0.0000000	0.00	0.0010468	43.25	0.0001989	111.92	0.0000000	0.00	0.0870125	43.25	0.0018711	111.20	1.47455	25.21	0.0221444	#####	0.0000000	0.00	0.0003326	43.34
14D27864	18.0 %	✓ 0.0000660	#####	0.0000000	0.00	0.0004733	174.33	0.0000000	0.00	1.777316	174.33	0.0000123	#####	0.0000000	0.00	0.0013128	34.13	0.0001276	174.80	0.0000000	0.00	0.1091186	34.13	0.0012008	174.34	1.31886	28.39	0.0194900	#####	0.0000000	0.00	0.0004172	34.23
14D27866	20.0 %	✓ 0.0021756	58.65	0.0000000	0.00	0.0008742	97.19	0.0000141	95.11	3.282887	97.19	0.0004066	58.65	0.0000000	0.00	0.0080976	5.31	0.0002357	98.03	0.0400797	95.11	0.6730595	5.31	0.0022179	97.20	10.47964	3.62	0.6429019	58.65	0.0000000	0.00	0.0025731	5.94
14D27867	22.0 %	✓ 0.0014288	88.94	0.0000000	0.00	0.0053881	15.38	0.0000014	999.72	20.233140	15.38	0.0002670	88.94	0.0000000	0.00	0.0225346	2.00	0.0014527	20.02	0.0038768	999.72	1.8730482	1.99	0.0136695	15.43	31.39961	1.20	0.4222140	88.94	0.0000000	0.00	0.0071607	3.32
14D27869	24.0 %	✓ 0.0024299	51.83	0.0000000	0.00	0.0059482	13.36	0.0000128	105.95	22.336503	13.36	0.0004542	51.83	0.0000000	0.00	0.0255088	1.82	0.0016038	18.51	0.0362641	105.96	2.1202587	1.81	0.0150905	13.42	36.06815	1.04	0.7180405	51.83	0.0000000	0.00	0.0081057	3.22
	Σ	0.0168439	22.37	0.0000000	0.00	0.0166901	14.72	0.0000564	59.90	62.674173	14.72	0.0031481	22.37	0.0000000	0.00	0.0919139	1.45	0.0045000	16.08	0.1600051	59.90	7.6397550	1.45	0.0423427	14.73	124.69734	0.90	4.9773865	22.37	0.0000000	0.00	0.0292068	1.86
	Σ							0.0335905	13.39	62.674173	14.72									0.2595671	36.93			7.6820976	1.44							129.70393	1.22

Additional Parameters		40Ar/39Ar	1σ	37Ar/39Ar	1σ	36Ar/39Ar	1σ	Time (days)	37Ar (decay)	39Ar (decay)	40Ar (moles)
14D27857	12.0 %	10.140458	2.570897	14.396542	21.429544	0.013287	0.007411	217.068	72.966192	1.00153369	6.957E-14
14D27858	14.0 %	✓ 17.200821	0.481298	6.125252	2.351847	0.003745	0.000749	217.074	72.975201	1.00153373	1.061E-12
14D27860	15.0 %	✓ 17.285598	0.594711	2.215405	2.835830	0.004734	0.000919	217.088	72.994222	1.00153383	8.711E-13
14D27861	16.0 %	✓ 17.610450	2.116931	0.070515	10.366568	0.007418	0.003162	217.094	73.003233	1.00153387	2.603E-13
14D27863	17.0 %	✓ 16.842517	7.135141	31.158842	37.064929	0.009141	0.011302	217.107	73.022262	1.00153396	7.186E-14
14D27864	18.0 %	✓ 12.135357	4.104924	16.110646	28.606022	0.004888	0.008790	217.114	73.032279	1.00153401	6.426E-14
14D27866	20.0 %	✓ 16.474884	0.872103	4.861539	4.731946	0.004537	0.001430	217.126	73.050313	1.00153410	5.340E-13
14D27867	22.0 %	✓ 16.870029	0.333998	10.723989	1.662382	0.003614	0.000516	217.133	73.060333	1.00153415	1.528E-12
14D27869	24.0 %	✓ 17.231042	0.309780	10.460351	1.409854	0.003930	0.000463	217.147	73.079377	1.00153424	1.766E-12

Procedure Blanks		36Ar ± 1σ (SE) [fA]	37Ar ± 1σ (SE) [fA]	38Ar ± 1σ (SE) [fA]	39Ar ± 1σ (SE) [fA]	40Ar ± 1σ (SE) [fA]
14D27857	12.0 %	0.0126918 ± 0.0008350	0.0283010 ± 0.0284446	0.3078630 ± 0.0264611	0.0357904 ± 0.0258192	3.6612784 ± 0.0269724
14D27858	14.0 %	0.0123714 ± 0.0008350	0.0158643 ± 0.0284446	0.3131437 ± 0.0264611	0.0224390 ± 0.0258192	3.6364345 ± 0.0269724
14D27860	15.0 %	0.0122348 ± 0.0008350	0.0142532 ± 0.0284446	0.3119193 ± 0.0264611	0.0179358 ± 0.0258192	3.6495110 ± 0.0269724
14D27861	16.0 %	0.0123264 ± 0.0008350	0.0172221 ± 0.0284446	0.3075354 ± 0.0264611	0.0214251 ± 0.0258192	3.6764788 ± 0.0269724
14D27863	17.0 %	0.0126412 ± 0.0008350	0.0183700 ± 0.0284446	0.2956671 ± 0.0264611	0.0295218 ± 0.0258192	3.7500306 ± 0.0269724
14D27864	18.0 %	0.0128075 ± 0.0008350	0.0141770 ± 0.0284446	0.2903395 ± 0.0264611	0.0310066 ± 0.0258192	3.7859280 ± 0.0269724
14D27866	20.0 %	0.0130219 ± 0.0008350	0.0018416 ± 0.0284446	0.2872912 ± 0.0264611	0.0256934 ± 0.0258192	3.8204048 ± 0.0269724
14D27867	22.0 %	0.0130805 ± 0.0008350	0.0024832 ± 0.0284446	0.2914101 ± 0.0264611	0.0185600 ± 0.0258192	3.8115996 ± 0.0269724
14D27869	24.0 %	0.0131014 ± 0.0008350	0.0156505 ± 0.0284446	0.3158722 ± 0.0264611	0.0014759 ± 0.0258192	3.7128593 ± 0.0269724

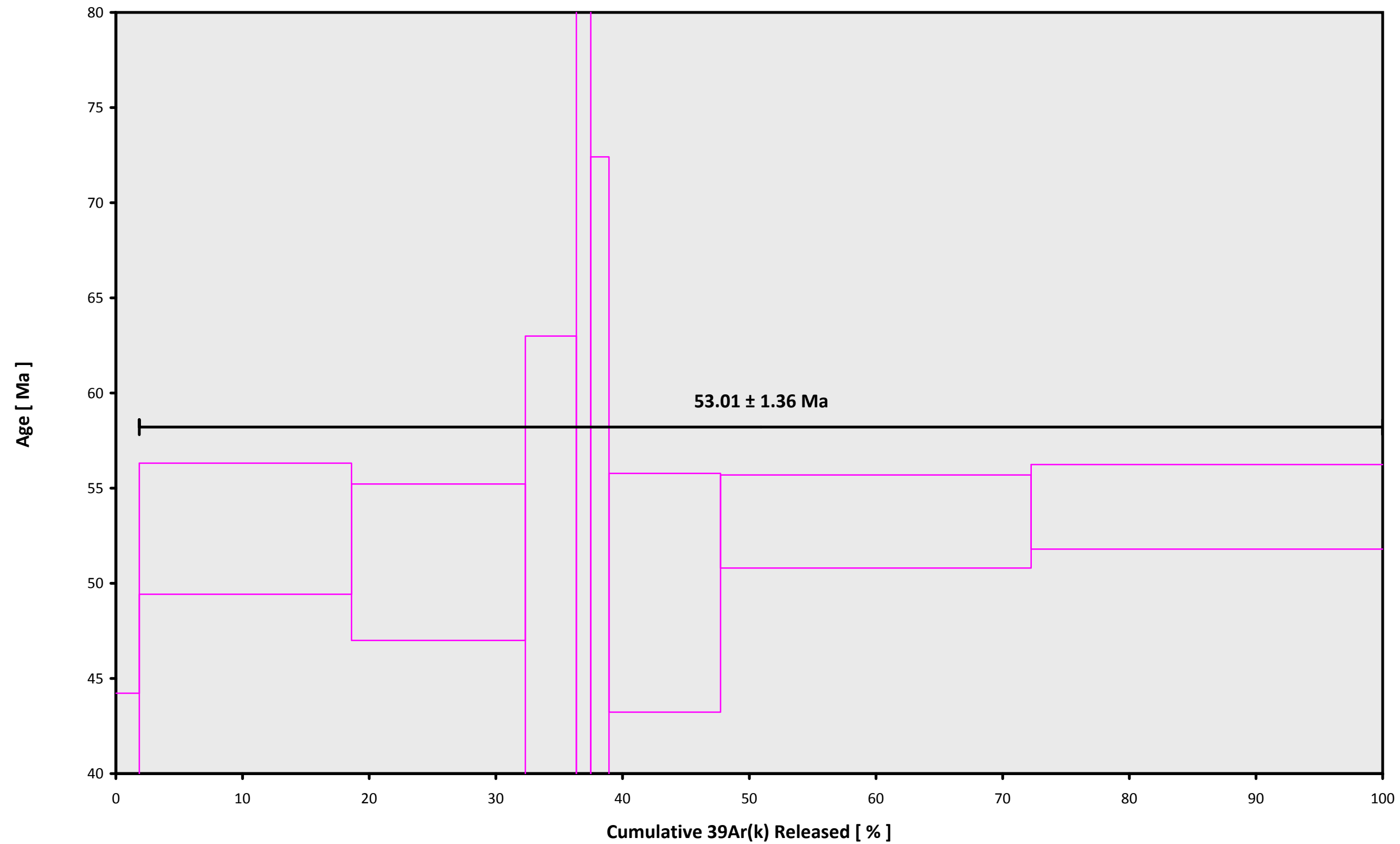
Intercept Values		36Ar ± 1σ (SE) [fA]	r2	Regression (type,n)	37Ar ± 1σ (SE) [fA]	r2	Regression (type,n)	38Ar ± 1σ (SE) [fA]	r2	Regression (type,n)	39Ar ± 1σ (SE) [fA]	r2	Regression (type,n)	40Ar ± 1σ (SE) [fA]	r2	Regression (type,n)
14D27857	12.0 %	0.0145028 ± 0.0003386	0.7013	EXP 150 of 150	0.0006788 ± 0.0288602	0.0062	EXP 150 of 150	0.3166048 ± 0.0255072	0.0049	EXP 150 of 150	0.1059479 ± 0.0247089	0.0009	EXP 150 of 150	5.114532 ± 0.027534	0.9941	EXP 150 of 150
14D27858	14.0 %	0.0169598 ± 0.0003581	0.6780	EXP 150 of 150	0.0897572 ± 0.0287472	0.0050	EXP 150 of 150	0.2563369 ± 0.0291382	0.0005	EXP 150 of 150	1.2515596 ± 0.0244415	0.0519	EXP 150 of 150	25.793624 ± 0.032928	0.9841	EXP 150 of 150
14D27860	15.0 %	0.0169742 ± 0.0003513	0.7069	EXP 150 of 150	0.0169573 ± 0.0280323	0.0039	EXP 150 of 150	0.2881094 ± 0.0299920	0.0118	EXP 150 of 150	1.0231875 ± 0.0247111	0.0387	EXP 150 of 150	21.845812 ± 0.029764	0.9885	EXP 150 of 150
14D27861	16.0 %	0.0145050 ± 0.0003113	0.7310	EXP 150 of 150	0.0169307 ± 0.0320252	0.0032	EXP 150 of 150	0.2757449 ± 0.0278236	0.0010	EXP 150 of 150	0.2839658 ± 0.0260074	0.0034	EXP 150 of 150	9.114277 ± 0.027096	0.9935	EXP 150 of 150
14D27863	17.0 %	0.0134160 ± 0.0003363	0.7250	EXP 150 of 150	0.0187779 ± 0.0299477	0.0186	EXP 150 of 150	0.2947491 ± 0.0273428	0.0004	EXP 150 of 150	0.0586183 ± 0.0268705	0.0044	EXP 150 of 150	5.251018 ± 0.029836	0.9930	EXP 150 of 150
14D27864	18.0 %	0.0133218 ± 0.0003576	0.7124	EXP 150 of 150	0.0096591 ± 0.0302922	0.0100	EXP 150 of 150	0.2931279 ± 0.0253266	0.0001	EXP 150 of 150	0.0783899 ± 0.0263215	0.0004	EXP 150 of 150	5.128238 ± 0.027581	0.9939	EXP 150 of 150
14D27866	20.0 %	0.0159437 ± 0.0003558	0.6717	EXP 150 of 150	0.0421754 ± 0.0319531	0.0001	EXP 150 of 150	0.2391409 ± 0.0266946	0.0122	EXP 149 of 150	0.6439356 ± 0.0241729	0.0214	EXP 150 of 150	14.974985 ± 0.027355	0.9920	EXP 150 of 150
14D27867	22.0 %	0.0195822 ± 0.0003830	0.6570	EXP 150 of 150	0.2737324 ± 0.0304484	0.0184	EXP 149 of 150	0.2636645 ± 0.0275775	0.0119	EXP 150 of 150	1.8523759 ± 0.0264256	0.1717	EXP 150 of 150	35.724879 ± 0.029403	0.9785	EXP 150 of 150
14D27869	24.0 %	0.0211028 ± 0.0004129	0.5687	EXP 149 of 150	0.2837187 ± 0.0280418	0.0168	EXP 150 of 150	0.2529166 ± 0.0271149	0.0087	EXP 150 of 150	2.1160116 ± 0.0278418	0.1629	EXP 150 of 150	40.604598 ± 0.029613	0.9723	EXP 150 of 150

Project Info		Analyst	Irradiation	X-pos	Y-pos	Z/H-pos	Project	Experiment	Nmb
14D27857	12.0 %	Kevin Konrad	14-OSU-02	0.00	0.00	23.70	French Polynesia\Rurutu (13-INT-08)	14D27847	01
14D27858	14.0 %	Kevin Konrad	14-OSU-02	0.00	0.00	23.70	French Polynesia\Rurutu (13-INT-08)	14D27847	01
14D27860	15.0 %	Kevin Konrad	14-OSU-02	0.00	0.00	23.70	French Polynesia\Rurutu (13-INT-08)	14D27847	01
14D27861	16.0 %	Kevin Konrad	14-OSU-02	0.00	0.00	23.70	French Polynesia\Rurutu (13-INT-08)	14D27847	01
14D27863	17.0 %	Kevin Konrad	14-OSU-02	0.00	0.00	23.70	French Polynesia\Rurutu (13-INT-08)	14D27847	01
14D27864	18.0 %	Kevin Konrad	14-OSU-02	0.00	0.00	23.70	French Polynesia\Rurutu (13-INT-08)	14D27847	01
14D27866	20.0 %	Kevin Konrad	14-OSU-02	0.00	0.00	23.70	French Polynesia\Rurutu (13-INT-08)	14D27847	01
14D27867	22.0 %	Kevin Konrad	14-OSU-02	0.00	0.00	23.70	French Polynesia\Rurutu (13-INT-08)	14D27847	01
14D27869	24.0 %	Kevin Konrad	14-OSU-02	0.00	0.00	23.70	French Polynesia\Rurutu (13-INT-08)	14D27847	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	
14D27857	12.0 %	RR1310-D11-10	Hornblende	Rurutu Hotspot	FCT-NM (2A19-14)	28.201	0.082	Kuiper et al. (2008)	8.8173	0.095	0.00178256	0.095	303.822	0.149	0.99314339	0.069	1	4.8E-14	17	OCT	2014	16	47	1
14D27858	14.0 %	RR1310-D11-10	Hornblende	Rurutu Hotspot	FCT-NM (2A19-14)	28.201	0.082	Kuiper et al. (2008)	8.8173	0.095	0.00178256	0.095	303.822	0.149	0.99314339	0.069	1	4.8E-14	17	OCT	2014	16	56	1
14D27860	15.0 %	RR1310-D11-10	Hornblende	Rurutu Hotspot	FCT-NM (2A19-14)	28.201	0.082	Kuiper et al. (2008)	8.8173	0.095	0.00178256	0.095	303.822	0.149	0.99314339	0.069	1	4.8E-14	17	OCT	2014	17	15	1
14D27861	16.0 %	RR1310-D11-10	Hornblende	Rurutu Hotspot	FCT-NM (2A19-14)	28.201	0.082	Kuiper et al. (2008)	8.8173	0.095	0.00178256	0.095	303.822	0.149	0.99314339	0.069	1	4.8E-14	17	OCT	2014	17	24	1
14D27863	17.0 %	RR1310-D11-10	Hornblende	Rurutu Hotspot	FCT-NM (2A19-14)	28.201	0.082	Kuiper et al. (2008)	8.8173	0.095	0.00178256	0.095	303.822	0.149	0.99314339	0.069	1	4.8E-14	17	OCT	2014	17	43	1
14D27864	18.0 %	RR1310-D11-10	Hornblende	Rurutu Hotspot	FCT-NM (2A19-14)	28.201	0.082	Kuiper et al. (2008)	8.8173	0.095	0.00178256	0.095	303.822	0.149	0.99314339	0.069	1	4.8E-14	17	OCT	2014	17	53	1
14D27866	20.0 %	RR1310-D11-10	Hornblende	Rurutu Hotspot	FCT-NM (2A19-14)	28.201	0.082	Kuiper et al. (2008)	8.8173	0.095	0.00178256	0.095	303.822	0.149	0.99314339	0.069	1	4.8E-14	17	OCT	2014	18	11	1
14D27867	22.0 %	RR1310-D11-10	Hornblende	Rurutu Hotspot	FCT-NM (2A19-14)	28.201	0.082	Kuiper et al. (2008)	8.8173	0.095	0.00178256	0.095	303.822	0.149	0.99314339	0.069	1	4.8E-14	17	OCT	2014	18	21	1
14D27869	24.0 %	RR1310-D11-10	Hornblende	Rurutu Hotspot	FCT-NM (2A19-14)	28.201	0.082	Kuiper et al. (2008)	8.8173	0.095	0.00178256	0.095	303.822	0.149	0.99314339	0.069	1	4.8E-14	17	OCT	2014	18	40	1

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
14D27857	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
14D27858	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
14D27860	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
14D27861	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
14D27863	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
14D27864	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
14D27866	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
14D27867	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
14D27869	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

14D27847.AGE >>> RR1310-D11-10 >>> FRENCH POLYNESIA | RURUTU (13-INT-08) PROJECT



Ar-Ages in Ma

WEIGHTED PLATEAU

53.01 ± 1.36

TOTAL FUSION

51.86 ± 1.74

NORMAL ISOCHRON

47.71 ± 6.80

INVERSE ISOCHRON

54.41 ± 2.03

MSWD (PROBABILITY)

0.58 (78%)

Sample Info

Hornblende

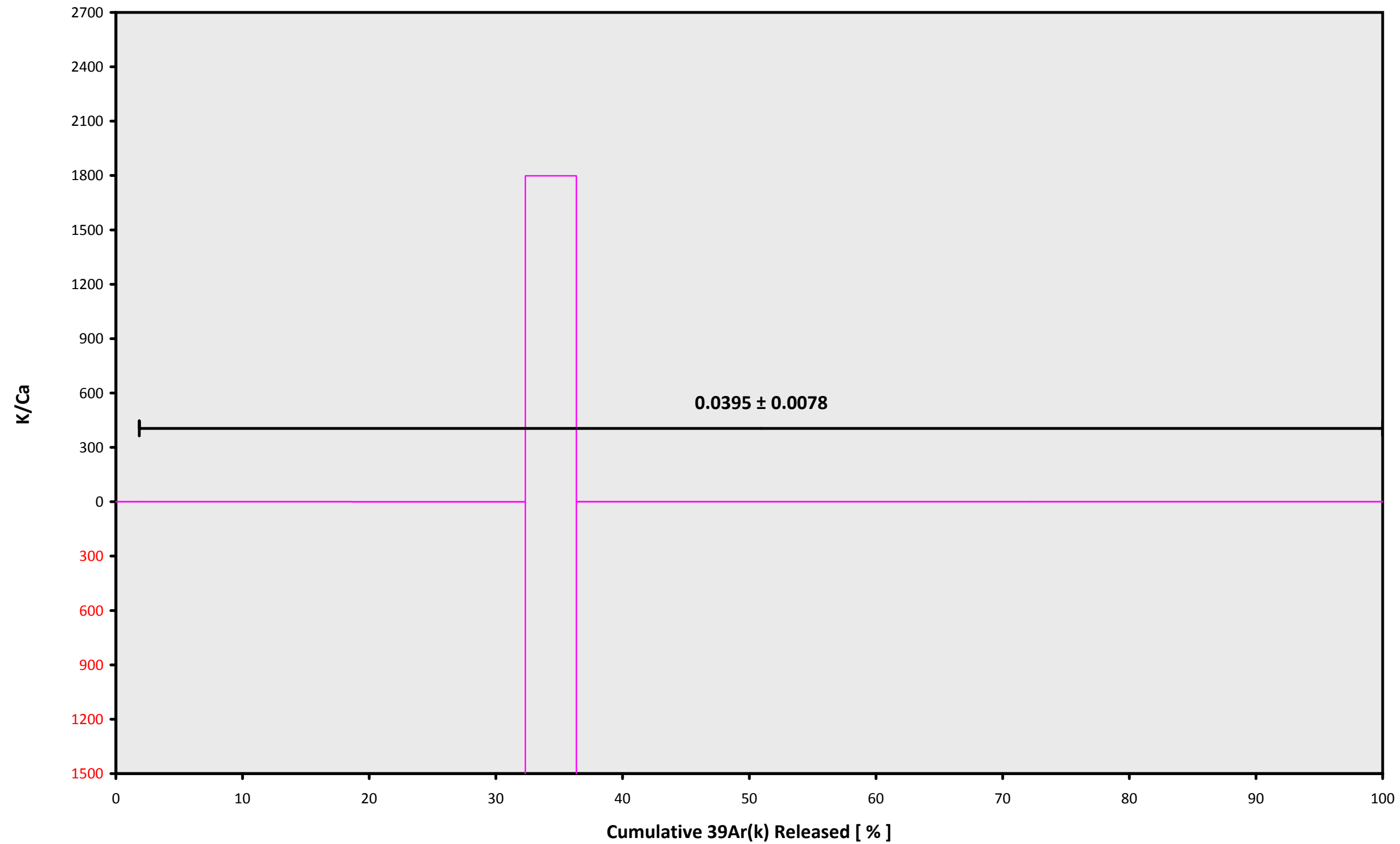
Rurutu Hotspot

Kevin Konrad

IRR = 14-OSU-02 (2A19-14)

J = 0.00178256 ± 0.00000169

14D27847.AGE >>> RR1310-D11-10 >>> FRENCH POLYNESIA | RURUTU (13-INT-08) PROJECT



Ar-Ages in Ma

WEIGHTED PLATEAU

53.01 ± 1.36

TOTAL FUSION

51.86 ± 1.74

NORMAL ISOCHRON

47.71 ± 6.80

INVERSE ISOCHRON

54.41 ± 2.03

Sample Info

Hornblende

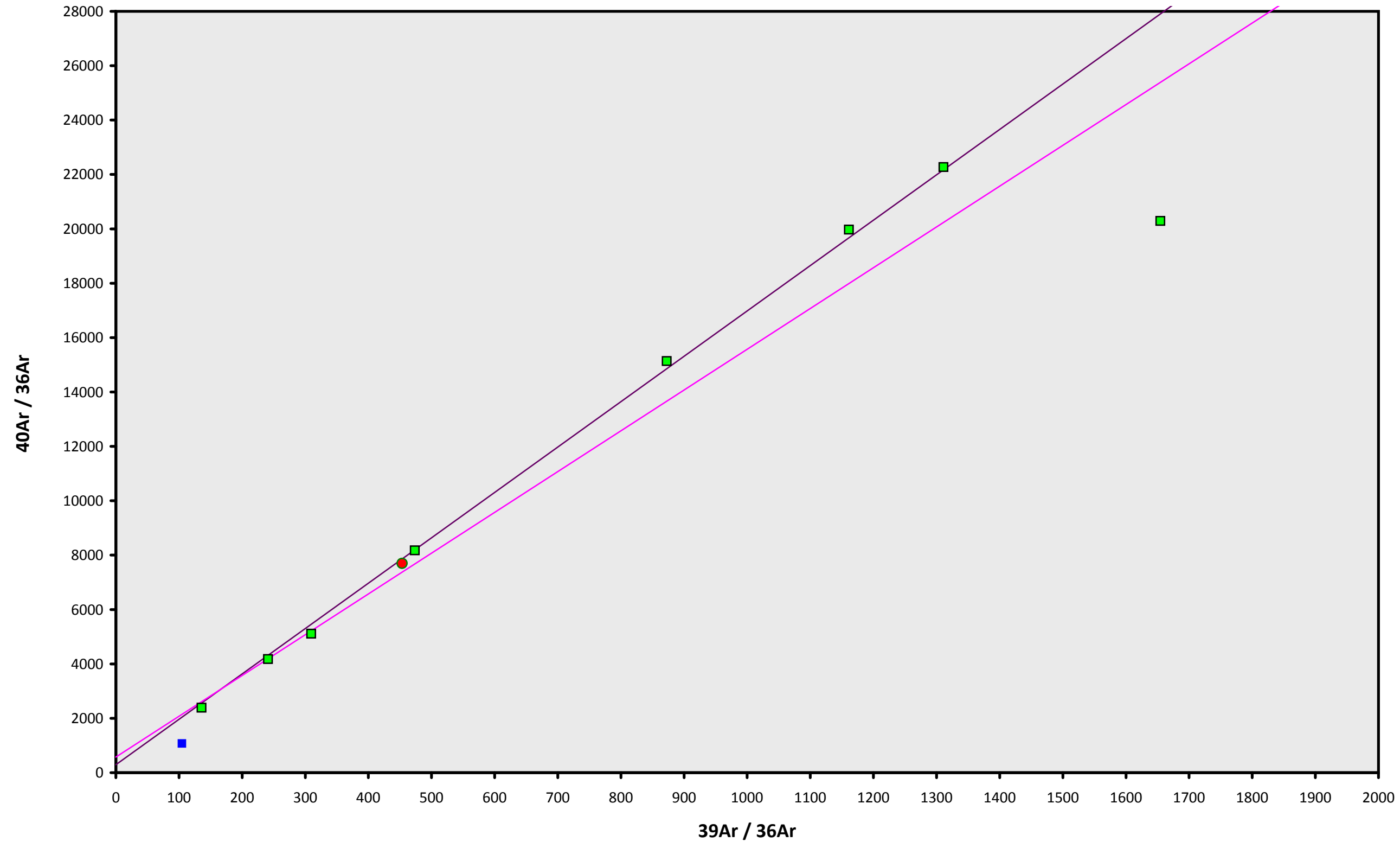
Rurutu Hotspot

Kevin Konrad

IRR = 14-OSU-02 (2A19-14)

J = 0.00178256 ± 0.00000169

14D27847.AGE >>> RR1310-D11-10 >>> FRENCH POLYNESIA | RURUTU (13-INT-08) PROJECT



Ar-Ages in Ma

WEIGHTED PLATEAU

53.01 ± 1.36

TOTAL FUSION

51.86 ± 1.74

NORMAL ISOCHRON

47.71 ± 6.80

INVERSE ISOCHRON

54.41 ± 2.03

MSWD (PROBABILITY)

0.67 (67%)

40AR/36AR INTERCEPT

575.4 ± 638.8

Sample Info

Hornblende

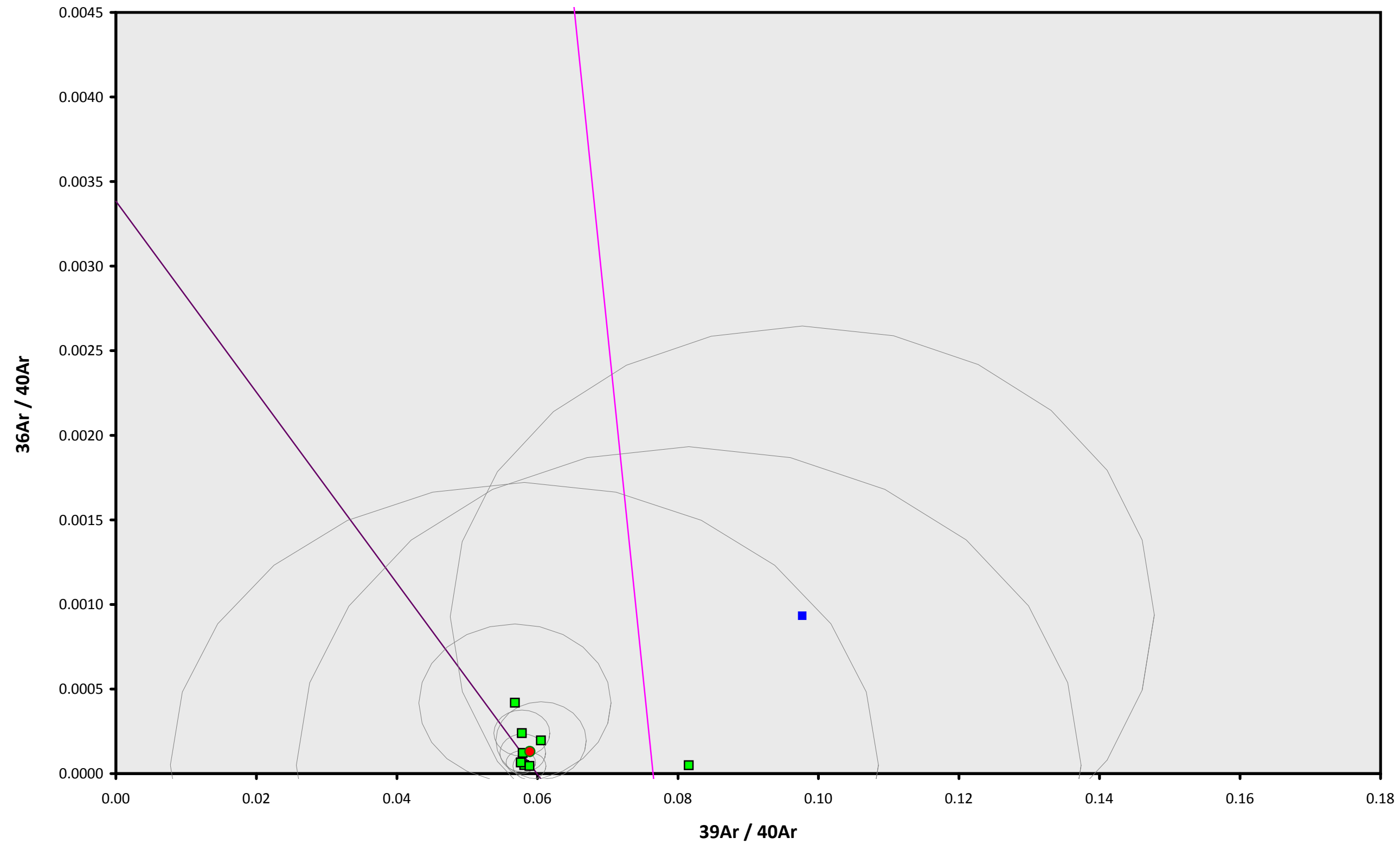
Rurutu Hotspot

Kevin Konrad

IRR = 14-OSU-02 (2A19-14)

J = $0.00178256 \pm 0.00000169$

14D27847.AGE >>> RR1310-D11-10 >>> FRENCH POLYNESIA | RURUTU (13-INT-08) PROJECT



Ar-Ages in Ma

WEIGHTED PLATEAU
 53.01 ± 1.36

TOTAL FUSION
 51.86 ± 1.74

NORMAL ISOCHRON
 47.71 ± 6.80

INVERSE ISOCHRON
 54.41 ± 2.03

MSWD (PROBABILITY)
 $0.32 (93\%)$

SPREADING FACTOR
 36.9%

40AR/36AR INTERCEPT
 30.2 ± 43.3

Sample Info

Hornblende
Rurutu Hotspot
Kevin Konrad

IRR = 14-OSU-02 (2A19-14)
J = $0.00178256 \pm 0.00000169$