

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
20F28577	0.5 %	✓	0.0134014	6.956	0.29089	4.667	0.0092456	110.191	0.11728	7.429	4.44932	5.119	2.53941 ± 6.48107	7.71 ± 19.64	6.68	0.03	0.173 ± 0.030
20F28579	0.7 %	✓	0.0109909	8.484	0.57742	2.374	0.0011282	885.352	0.20626	4.420	3.23476	7.037	0.68943 ± 3.64865	2.10 ± 11.11	4.39	0.06	0.153 ± 0.015
20F28580	0.9 %	✓	0.0045033	20.591	0.03299	40.877	0.0004402	2285.581	0.02511	34.288	1.31238	17.349	3.51806 ± 29.51489	10.73 ± 90.32	6.73	0.01	0.327 ± 0.349
20F28582	1.1 %	✓	0.0032412	28.555	0.15981	8.761	0.0112029	93.689	0.06182	13.579	0.88913	25.617	1.74052 ± 11.93798	5.30 ± 36.43	12.08	0.02	0.166 ± 0.054
20F28583	1.3 %	✓	0.0013418	68.996	0.16260	8.434	0.0066023	157.709	0.05295	17.287	0.53019	42.942	2.37955 ± 13.93761	7.23 ± 42.24	23.72	0.01	0.140 ± 0.054
20F28585	1.5 %	✓	0.0158340	5.937	1.76014	0.767	0.0181087	58.196	0.71043	1.205	5.47022	4.163	0.96380 ± 1.08232	2.93 ± 3.29	12.50	0.19	0.173 ± 0.005
20F28586	1.8 %	✓	0.0066651	13.927	0.78584	1.777	0.0023897	425.710	0.36959	2.389	2.10114	10.835	0.24387 ± 2.00720	0.74 ± 6.10	4.28	0.10	0.202 ± 0.012
20F28587	2.2 %	✓	0.0089195	10.415	1.50685	0.889	0.0048471	228.878	0.73138	1.185	3.47725	6.552	1.12822 ± 1.01998	3.43 ± 3.10	23.70	0.20	0.208 ± 0.006
20F28589	2.6 %	✓	0.0131282	7.179	3.35297	0.437	0.0169376	60.772	1.77563	0.507	6.02224	3.783	1.24745 ± 0.42849	3.79 ± 1.30	36.74	0.48	0.227 ± 0.003
20F28590	3.1 %	✓	0.0238874	3.988	8.83382	0.205	0.0644842	16.427	5.29047	0.179	12.74897	1.786	1.14397 ± 0.15085	3.48 ± 0.46	47.42	1.43	0.257 ± 0.001
20F28591	3.6 %	✓	0.0583268	1.661	25.35233	0.149	0.2041193	5.752	17.53672	0.069	35.15352	0.648	1.09024 ± 0.05718	3.31 ± 0.17	54.34	4.73	0.297 ± 0.001
20F28593	4.1 %	✓	0.0686592	1.496	33.30095	0.144	0.3005454	3.312	24.48509	0.058	45.27978	0.503	1.09031 ± 0.04472	3.31 ± 0.14	58.91	6.60	0.316 ± 0.001
20F28594	4.7 %	✓	0.0495800	1.961	40.19265	0.141	0.3827226	2.622	31.90313	0.053	46.97339	0.485	1.09447 ± 0.02840	3.33 ± 0.09	74.27	8.61	0.341 ± 0.001
20F28595	5.3 %	✓	0.0520380	1.909	45.11944	0.139	0.4603767	2.193	38.65646	0.049	54.45202	0.419	1.08762 ± 0.02389	3.31 ± 0.07	77.15	10.43	0.368 ± 0.001
20F28597	6.0 %	✓	0.0492265	2.017	49.94994	0.141	0.5134181	2.096	41.48525	0.048	56.18285	0.406	1.08615 ± 0.02158	3.30 ± 0.07	80.14	11.19	0.357 ± 0.001
20F28598	6.8 %	✓	0.0390386	2.498	43.51720	0.141	0.4314502	2.446	35.78226	0.051	47.16579	0.483	1.08082 ± 0.02339	3.29 ± 0.07	81.93	9.65	0.353 ± 0.001
20F28599	7.5 %	✓	0.0448197	2.158	43.75094	0.140	0.3912409	2.789	32.27729	0.052	45.12995	0.505	1.07997 ± 0.02684	3.28 ± 0.08	77.17	8.71	0.317 ± 0.001
20F28601	8.3 %	✓	0.0438458	2.212	43.20787	0.141	0.3301977	3.025	27.42217	0.056	39.44217	0.577	1.07325 ± 0.03145	3.26 ± 0.10	74.54	7.40	0.273 ± 0.001
20F28602	9.1 %	✓	0.0500795	1.949	43.68212	0.143	0.2900914	3.699	22.47276	0.061	35.64544	0.639	1.05614 ± 0.04027	3.21 ± 0.12	66.50	6.06	0.221 ± 0.001
20F28603	10.1 %	✓	0.0487889	1.985	49.28168	0.141	0.2423074	4.365	19.56974	0.065	31.45056	0.724	1.04337 ± 0.04513	3.17 ± 0.14	64.82	5.27	0.170 ± 0.001
20F28605	11.2 %		0.0451043	2.156	49.13689	0.141	0.2038407	5.002	16.04607	0.069	26.28306	0.866	1.02133 ± 0.05372	3.10 ± 0.16	62.23	4.32	0.140 ± 0.000
20F28606	12.4 %		0.0416064	2.364	51.86902	0.142	0.1696047	5.967	13.47863	0.081	22.11985	1.029	1.00516 ± 0.06257	3.06 ± 0.19	61.10	3.63	0.111 ± 0.000
20F28607	13.6 %		0.0434131	2.248	54.18263	0.139	0.1515716	6.708	11.25417	0.100	19.85467	1.147	0.97000 ± 0.07526	2.95 ± 0.23	54.81	3.03	0.089 ± 0.000
20F28609	14.9 %		0.0347840	2.741	48.89638	0.140	0.1093758	9.267	8.22159	0.124	14.55081	1.564	0.95536 ± 0.09742	2.90 ± 0.30	53.77	2.21	0.072 ± 0.000
20F28610	16.2 %		0.0314835	3.030	47.60140	0.142	0.0853921	12.216	6.33317	0.146	11.76829	1.935	0.94608 ± 0.12471	2.88 ± 0.38	50.67	1.70	0.057 ± 0.000
20F28611	17.6 %		0.0361036	2.682	55.82366	0.140	0.0753882	14.800	5.30639	0.180	10.99326	2.072	0.84263 ± 0.15229	2.56 ± 0.46	40.40	1.42	0.041 ± 0.000
20F28613	19.0 %		0.0382271	2.534	62.52375	0.141	0.0626282	16.917	4.79813	0.195	10.36893	2.197	0.78179 ± 0.16901	2.38 ± 0.51	35.87	1.28	0.033 ± 0.000
20F28614	20.5 %		0.0483285	2.018	77.59361	0.138	0.0598191	17.917	4.59543	0.193	11.96764	1.903	0.75678 ± 0.18400	2.30 ± 0.56	28.74	1.23	0.025 ± 0.000
Σ			0.9253664	0.549	882.44578	0.034	4.5762059	1.210	370.96536	0.017	605.01757	0.199					

Information on Analysis and Constants Used in Calculations
Project = MCCLAUGHRY (19-20) Sample = 108 BRHC 19 Material = Groundmass Location = Burns Butte Region = Harney Basin Analyst = Dan Miggins Irradiation = 20-OSU-04 (486-20) Position = X: 0 Y: 0 Z/H: 7.15984 mm FCT-NM Age = 28.201 ± 0.023 Ma FCT-NM Reference = Kuiper et al (2008) FCT-NM 40Ar/39Ar Ratio = 9.34111 ± 0.00448 FCT-NM J-value = 0.00166206 ± 0.00000080 Air Shot 40Ar/36Ar = 298.3750 ± 0.3431 Air Shot MDF = 1.00015521 ± 0.00038837 (LIN) Experiment Type = Incremental Heating Extraction Method = Bulk Laser Heating Heating = 64 sec Isolation = 6.12 min Instrument = ARGUS-VI-F Preferred Age = Plateau Age Age Classification = Crystallization Age IGSN = Undefined Rock Class = Undefined Lithology = Undefined Lat-Lon = Undefined - Undefined
Age Equations = Min et al. (2000) Negative Intensities = Allowed Collector Calibrations = 36Ar Decay 40K = 5.463 ± 0.107 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 ± 0.014 E-10 1/a Decay 40K(β ⁻) = 4.884 ± 0.099 E-10 1/a Atmospheric 40/36(a) = 311.64 ± 6.37 Atmospheric 38/36(a) = 0.1885 ± 0.0003 Production 39/37(ca) = 0.0006425 ± 0.00000059 Production 38/37(ca) = 0.0001800 ± 0.0000173 Production 36/37(ca) = 0.0002703 ± 0.0000005 Production 40/39(k) = 0.000607 ± 0.000059 Production 38/39(k) = 0.012077 ± 0.000011 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		1.08159 ± 0.00939 ± 0.87%	3.29 ± 0.03 ± 0.87%	0.52 96%	81.17 20	0.267 ± 0.032
		Full External Error ± 0.17 Analytical Error ± 0.03		1.65 1.0000	2σ Confidence Limit Error Magnification	
Total Fusion Age		1.05493 ± 0.01193 ± 1.13%	3.21 ± 0.04 ± 1.13%		28	0.180 ± 0.000
		Full External Error ± 0.17 Analytical Error ± 0.04				
Normal Isochron	309.81 ± 12.71 ± 4.10%	1.08356 ± 0.01760 ± 1.62%	3.29 ± 0.05 ± 1.63%	0.73 79%	81.17 20	
		Full External Error ± 0.18 Analytical Error ± 0.05		1.67 1.0000	2σ Confidence Limit Error Magnification Number of Iterations Convergence	
				37 0.0000099101		
Inverse Isochron	311.64 ± 12.74 ± 4.09%	1.08200 ± 0.01757 ± 1.62%	3.29 ± 0.05 ± 1.63%	0.68 83%	81.17 20	
		Full External Error ± 0.18 Analytical Error ± 0.05		1.67 1.0000	2σ Confidence Limit Error Magnification Number of Iterations Convergence Spreading Factor	
Notes						
Excess Initial 40Ar/36Ar = 311.64 ± 2.05 (%SD).				5 0.0011079432 80%		

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
20F28577	0.5 %	✓	0.0133228	0.29089	0.0000000	0.11709	0.29734	7.71 ± 19.64	6.68	0.03	0.173 ± 0.030
20F28579	0.7 %	✓	0.0108349	0.57742	0.0000000	0.20589	0.14194	2.10 ± 11.11	4.39	0.06	0.153 ± 0.015
20F28580	0.9 %	✓	0.0044944	0.03299	0.0000000	0.02509	0.08826	10.73 ± 90.32	6.73	0.01	0.327 ± 0.349
20F28582	1.1 %	✓	0.0031976	0.15981	0.0098261	0.06171	0.10741	5.30 ± 36.43	12.08	0.02	0.166 ± 0.054
20F28583	1.3 %	✓	0.0012977	0.16260	0.0056902	0.05285	0.12575	7.23 ± 42.24	23.72	0.01	0.140 ± 0.054
20F28585	1.5 %	✓	0.0153580	1.76014	0.0063308	0.70930	0.68362	2.93 ± 3.29	12.50	0.19	0.173 ± 0.005
20F28586	1.8 %	✓	0.0064527	0.78584	0.0000000	0.36908	0.09001	0.74 ± 6.10	4.28	0.10	0.202 ± 0.012
20F28587	2.2 %	✓	0.0085122	1.50685	0.0000000	0.73041	0.82406	3.43 ± 3.10	23.70	0.20	0.208 ± 0.006
20F28589	2.6 %	✓	0.0122219	3.35297	0.0000000	1.77348	2.21233	3.79 ± 1.30	36.74	0.48	0.227 ± 0.003
20F28590	3.1 %	✓	0.0214996	8.83382	0.0000000	5.28479	6.04563	3.48 ± 0.46	47.42	1.43	0.257 ± 0.001
20F28591	3.6 %	✓	0.0514741	25.35233	0.0000000	17.52043	19.10151	3.31 ± 0.17	54.34	4.73	0.297 ± 0.001
20F28593	4.1 %	✓	0.0596580	33.30095	0.0000000	24.46369	26.67313	3.31 ± 0.14	58.91	6.60	0.316 ± 0.001
20F28594	4.7 %	✓	0.0387159	40.19265	0.0000000	31.87730	34.88862	3.33 ± 0.09	74.27	8.61	0.341 ± 0.001
20F28595	5.3 %	✓	0.0398422	45.11944	0.0000000	38.62747	42.01215	3.31 ± 0.07	77.15	10.43	0.368 ± 0.001
20F28597	6.0 %	✓	0.0357251	49.94994	0.0000000	41.45316	45.02433	3.30 ± 0.07	80.14	11.19	0.357 ± 0.001
20F28598	6.8 %	✓	0.0272759	43.51720	0.0000000	35.75430	38.64383	3.29 ± 0.07	81.93	9.65	0.353 ± 0.001
20F28599	7.5 %	✓	0.0329938	43.75094	0.0000000	32.24918	34.82819	3.28 ± 0.08	77.17	8.71	0.317 ± 0.001
20F28601	8.3 %	✓	0.0321668	43.20787	0.0000000	27.39441	29.40109	3.26 ± 0.10	74.54	7.40	0.273 ± 0.001
20F28602	9.1 %	✓	0.0382721	43.68212	0.0039497	22.44470	23.70470	3.21 ± 0.12	66.50	6.06	0.221 ± 0.001
20F28603	10.1 %	✓	0.0354681	49.28168	0.0000000	19.53808	20.38543	3.17 ± 0.14	64.82	5.27	0.170 ± 0.001
20F28605	11.2 %		0.0318226	49.13689	0.0000000	16.01450	16.35614	3.10 ± 0.16	62.23	4.32	0.140 ± 0.000
20F28606	12.4 %		0.0275862	51.86902	0.0000000	13.44531	13.51471	3.06 ± 0.19	61.10	3.63	0.111 ± 0.000
20F28607	13.6 %		0.0287675	54.18263	0.0008998	11.21936	10.88275	2.95 ± 0.23	54.81	3.03	0.089 ± 0.000
20F28609	14.9 %		0.0215673	48.89638	0.0000000	8.19018	7.82460	2.90 ± 0.30	53.77	2.21	0.072 ± 0.000
20F28610	16.2 %		0.0186168	47.60140	0.0000000	6.30258	5.96272	2.88 ± 0.38	50.67	1.70	0.057 ± 0.000
20F28611	17.6 %		0.0210145	55.82366	0.0000000	5.27052	4.44111	2.56 ± 0.46	40.40	1.42	0.041 ± 0.000
20F28613	19.0 %		0.0213269	62.52375	0.0000000	4.75796	3.71972	2.38 ± 0.51	35.87	1.28	0.033 ± 0.000
20F28614	20.5 %		0.0273549	77.59361	0.0000000	4.54557	3.43999	2.30 ± 0.56	28.74	1.23	0.025 ± 0.000
Σ			0.6868403	882.44578	0.0266965	370.39839	390.74584				

Information on Analysis	Results	40(r)/39(k) ± 2σ	Age ± 2σ (Ma)	MSWD	39Ar(k) (% <i>n</i>)	K/Ca ± 2σ
Project = MCCLAUGHRY (19-20) Sample = 108 BRHC 19 Material = Groundmass Location = Burns Butte Region = Harney Basin Analyst = Dan Miggins Irradiation = 20-OSU-04 (4B6-20) J = 0.00166206 ± 0.00000080 FCT-NM = 28.201 ± 0.023 Ma	Age Plateau	1.08159 ± 0.00939 ± 0.87%	3.29 ± 0.03 ± 0.87% Full External Error ± 0.17 Analytical Error ± 0.03	0.52 96% 1.65 1.0000	81.17 20 2σ Confidence Limit Error Magnification	0.267 ± 0.032
	Total Fusion Age	1.05493 ± 0.01193 ± 1.13%	3.21 ± 0.04 ± 1.13% Full External Error ± 0.17 Analytical Error ± 0.04		28	0.180 ± 0.000

Normal Isochron			39(k)/36(a) ± 2σ	40(a+r)/36(a) ± 2σ	r.i.
20F28577	0.5 %	✓	8.79 ± 1.80	333.96 ± 57.91	0.5529
20F28579	0.7 %	✓	19.00 ± 3.68	298.54 ± 66.38	0.6884
20F28580	0.9 %	✓	5.58 ± 4.47	292.00 ± 157.43	0.3944
20F28582	1.1 %	✓	19.30 ± 12.34	278.05 ± 214.95	0.6777
20F28583	1.3 %	✓	40.72 ± 59.80	408.54 ± 680.41	0.8326
20F28585	1.5 %	✓	46.18 ± 5.76	356.15 ± 52.73	0.8113
20F28586	1.8 %	✓	57.20 ± 16.68	325.59 ± 117.28	0.7879
20F28587	2.2 %	✓	85.81 ± 18.84	408.45 ± 103.99	0.8523
20F28589	2.6 %	✓	145.11 ± 22.43	492.65 ± 84.63	0.8958
20F28590	3.1 %	✓	245.81 ± 21.80	592.84 ± 56.64	0.9267
20F28591	3.6 %	✓	340.37 ± 12.82	682.73 ± 27.18	0.9448
20F28593	4.1 %	✓	410.07 ± 14.13	758.74 ± 27.22	0.9592
20F28594	4.7 %	✓	823.36 ± 41.37	1212.78 ± 62.04	0.9816
20F28595	5.3 %	✓	969.51 ± 48.37	1366.10 ± 69.10	0.9860
20F28597	6.0 %	✓	1160.34 ± 64.55	1571.94 ± 88.36	0.9894
20F28598	6.8 %	✓	1310.84 ± 93.77	1728.42 ± 124.75	0.9909
20F28599	7.5 %	✓	977.43 ± 57.33	1367.24 ± 81.37	0.9853
20F28601	8.3 %	✓	851.64 ± 51.37	1225.66 ± 75.27	0.9820
20F28602	9.1 %	✓	586.45 ± 29.94	931.01 ± 48.98	0.9697
20F28603	10.1 %	✓	550.86 ± 30.11	886.39 ± 50.11	0.9663
20F28605	11.2 %		503.24 ± 30.78	825.62 ± 52.47	0.9618
20F28606	12.4 %		487.39 ± 34.78	801.55 ± 59.52	0.9605
20F28607	13.6 %		390.00 ± 26.49	689.94 ± 49.45	0.9469
20F28609	14.9 %		379.75 ± 33.60	674.44 ± 63.28	0.9424
20F28610	16.2 %		338.54 ± 34.72	631.93 ± 69.25	0.9351
20F28611	17.6 %		250.80 ± 23.14	522.98 ± 52.87	0.9113
20F28613	19.0 %		223.10 ± 20.30	486.05 ± 49.07	0.8994
20F28614	20.5 %		166.17 ± 11.88	437.39 ± 35.38	0.8810

Results	40(a)/36(a) ± 2σ	40(r)/39(k) ± 2σ	Age ± 2σ (Ma)	MSWD
Normal Isochron	309.81 ± 12.71 ± 4.10%	1.08356 ± 0.01760 ± 1.62%	3.29 ± 0.05 ± 1.63% Full External Error ± 0.18 Analytical Error ± 0.05	0.73 79%
Statistics	2σ Confidence Limit Error Magnification Number of Data Points	1.67 1.0000 20	Convergence Number of Iterations Calculated Line	0.000009910115 37 Weighted York-2

Inverse Isochron		39(k)/40(a+r) ± 2σ		36(a)/40(a+r) ± 2σ	r.i.
20F28577	0.5 %	✓	0.0263172 ± 0.0047540	0.00299438 ± 0.00051922	0.3347
20F28579	0.7 %	✓	0.0636510 ± 0.0105846	0.00334964 ± 0.00074480	0.5358
20F28580	0.9 %	✓	0.0191173 ± 0.0147025	0.00342464 ± 0.00184634	0.2904
20F28582	1.1 %	✓	0.0694127 ± 0.0402660	0.00359650 ± 0.00278029	0.5854
20F28583	1.3 %	✓	0.0996797 ± 0.0923156	0.00244772 ± 0.00407657	0.4783
20F28585	1.5 %	✓	0.1296752 ± 0.0112413	0.00280779 ± 0.00041571	0.5401
20F28586	1.8 %	✓	0.1756780 ± 0.0389912	0.00307136 ± 0.00110631	0.5875
20F28587	2.2 %	✓	0.2100806 ± 0.0279795	0.00244829 ± 0.00062331	0.5065
20F28589	2.6 %	✓	0.2945409 ± 0.0224903	0.00202982 ± 0.00034871	0.4366
20F28590	3.1 %	✓	0.4146316 ± 0.0148915	0.00168680 ± 0.00016117	0.3722
20F28591	3.6 %	✓	0.4985484 ± 0.0065040	0.00146471 ± 0.00005831	0.3240
20F28593	4.1 %	✓	0.5404557 ± 0.0054792	0.00131797 ± 0.00004728	0.2788
20F28594	4.7 %	✓	0.6789044 ± 0.0066238	0.00082455 ± 0.00004218	0.1885
20F28595	5.3 %	✓	0.7096910 ± 0.0059923	0.00073201 ± 0.00003702	0.1647
20F28597	6.0 %	✓	0.7381564 ± 0.0060332	0.00063616 ± 0.00003576	0.1434
20F28598	6.8 %	✓	0.7584046 ± 0.0073662	0.00057856 ± 0.00004176	0.1331
20F28599	7.5 %	✓	0.7148950 ± 0.0072577	0.00073140 ± 0.00004353	0.1688
20F28601	8.3 %	✓	0.6948392 ± 0.0080642	0.00081589 ± 0.00005010	0.1872
20F28602	9.1 %	✓	0.6299062 ± 0.0080915	0.00107410 ± 0.00005651	0.2419
20F28603	10.1 %	✓	0.6214657 ± 0.0090381	0.00112817 ± 0.00006378	0.2552
20F28605	11.2 %		0.6095344 ± 0.0105973	0.00121121 ± 0.00007697	0.2718
20F28606	12.4 %		0.6080633 ± 0.0125603	0.00124759 ± 0.00009264	0.2765
20F28607	13.6 %		0.5652680 ± 0.0130226	0.00144940 ± 0.00010388	0.3190
20F28609	14.9 %		0.5630600 ± 0.0176769	0.00148271 ± 0.00013912	0.3325
20F28610	16.2 %		0.5357304 ± 0.0208011	0.00158246 ± 0.00017341	0.3523
20F28611	17.6 %		0.4795716 ± 0.0199592	0.00191213 ± 0.00019332	0.4085
20F28613	19.0 %		0.4589948 ± 0.0202556	0.00205738 ± 0.00020772	0.4336
20F28614	20.5 %		0.3799097 ± 0.0145400	0.00228627 ± 0.00018496	0.4681

Results	40(a)/36(a) ± 2σ		40(r)/39(k) ± 2σ	Age ± 2σ (Ma)	MSWD
Inverse Isochron	311.64 ± 12.74 ± 4.09%		1.08200 ± 0.01757 ± 1.62%	3.29 ± 0.05 ± 1.63% Full External Error ± 0.18 Analytical Error ± 0.05	0.68 83%
Statistics	2σ Confidence Limit Error Magnification Number of Data Points Spreading Factor	1.67 1.0000 20 80.0%	Convergence Number of Iterations Calculated Line	0.0011079432 5 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
20F28577	0.5 %	✓	0.0133228	7.00	0.0000000	0.00	0.0000786	4.67	0.0000000	0.00	0.29089	4.67	0.0025113	7.00	0.0000000	0.00	0.0014141	7.44	0.0000524	10.70	0.0000000	0.00	0.11709	7.44	0.0001869	4.76	0.29734	127.39	4.15191	7.29	0.0000000	0.00	0.0000711	12.19
20F28579	0.7 %	✓	0.0108349	8.61	0.0000000	0.00	0.0001561	2.38	0.0000000	0.00	0.57742	2.37	0.0020424	8.61	0.0000000	0.00	0.0024865	4.43	0.0001039	9.92	0.0000000	0.00	0.20589	4.43	0.0003710	2.55	0.14194	264.58	3.37658	8.85	0.0000000	0.00	0.0001250	10.62
20F28580	0.9 %	✓	0.0044944	20.63	0.0000000	0.00	0.0000089	40.88	0.0000000	0.00	0.03299	40.88	0.0008472	20.63	0.0000000	0.00	0.0003030	34.32	0.0000059	42.00	0.0000000	0.00	0.02509	34.32	0.0000212	40.89	0.08826	418.07	1.40063	20.73	0.0000000	0.00	0.0000152	35.65
20F28582	1.1 %	✓	0.0031976	28.94	0.0000000	0.00	0.0000432	8.76	0.0000004	106.84	0.15981	8.76	0.0006028	28.94	0.0000000	0.00	0.0007453	13.60	0.0000288	13.02	0.0098261	106.85	0.06171	13.60	0.0001027	8.81	0.10741	342.67	0.99651	29.02	0.0000000	0.00	0.0000375	16.68
20F28583	1.3 %	✓	0.0012977	71.35	0.0000000	0.00	0.0000439	8.44	0.0000002	183.03	0.16260	8.43	0.0002446	71.35	0.0000000	0.00	0.0006382	17.32	0.0000293	12.80	0.0056902	183.03	0.05285	17.32	0.0001045	8.48	0.12575	292.35	0.40441	71.37	0.0000000	0.00	0.0000321	19.83
20F28585	1.5 %	✓	0.0153580	6.12	0.0000000	0.00	0.0004758	0.79	0.0000002	166.50	1.76014	0.77	0.0028950	6.12	0.0000000	0.00	0.0085662	1.21	0.0003168	9.66	0.0063308	166.51	0.70930	1.21	0.0011309	1.20	0.68362	56.14	4.78617	6.45	0.0000000	0.00	0.0004305	9.73
20F28586	1.8 %	✓	0.0064527	14.39	0.0000000	0.00	0.0002124	1.79	0.0000000	0.00	0.78584	1.78	0.0012163	14.39	0.0000000	0.00	0.0044574	2.39	0.0001415	9.79	0.0000000	0.00	0.36908	2.39	0.0005049	2.00	0.09001	411.52	2.01090	14.53	0.0000000	0.00	0.0002240	9.94
20F28587	2.2 %	✓	0.0085122	10.91	0.0000000	0.00	0.0004073	0.91	0.0000000	0.00	1.50685	0.89	0.0016046	10.91	0.0000000	0.00	0.0088211	1.19	0.0002712	9.67	0.0000000	0.00	0.73041	1.19	0.0009682	1.28	0.82406	45.19	2.65274	11.10	0.0000000	0.00	0.0004434	9.72
20F28589	2.6 %	✓	0.0122219	7.71	0.0000000	0.00	0.0009063	0.47	0.0000000	0.00	3.35297	0.44	0.0023038	7.71	0.0000000	0.00	0.0214183	0.52	0.0006035	9.64	0.0000000	0.00	1.77348	0.51	0.0021543	1.02	2.21233	17.17	3.80883	7.98	0.0000000	0.00	0.0010765	9.66
20F28590	3.1 %	✓	0.0214996	4.43	0.0000000	0.00	0.0023878	0.27	0.0000000	0.00	8.83382	0.21	0.0040527	4.43	0.0000000	0.00	0.0638245	0.20	0.0015901	9.63	0.0000000	0.00	5.28479	0.18	0.0056757	0.94	6.04563	6.59	6.70013	4.88	0.0000000	0.00	0.0032079	9.65
20F28591	3.6 %	✓	0.0514741	1.88	0.0000000	0.00	0.0068527	0.23	0.0000000	0.00	25.35233	0.15	0.0097029	1.89	0.0000000	0.00	0.2115942	0.11	0.0045634	9.63	0.0000000	0.00	17.52043	0.07	0.0162889	0.93	19.10151	2.62	16.04138	2.78	0.0000000	0.00	0.0106349	9.65
20F28593	4.1 %	✓	0.0596580	1.72	0.0000000	0.00	0.0090012	0.22	0.0000000	0.00	33.30095	0.14	0.0112455	1.73	0.0000000	0.00	0.2954480	0.11	0.0059942	9.63	0.0000000	0.00	24.46369	0.06	0.0213959	0.93	26.67313	2.05	18.59181	2.67	0.0000000	0.00	0.0148495	9.65
20F28594	4.7 %	✓	0.0387159	2.51	0.0000000	0.00	0.0108641	0.22	0.0000000	0.00	40.19265	0.14	0.0072979	2.52	0.0000000	0.00	0.3849822	0.10	0.0072347	9.63	0.0000000	0.00	31.87730	0.05	0.0258238	0.93	34.88862	1.30	12.06542	3.24	0.0000000	0.00	0.0193495	9.65
20F28595	5.3 %	✓	0.0398422	2.49	0.0000000	0.00	0.0121958	0.22	0.0000000	0.00	45.11944	0.14	0.0075103	2.50	0.0000000	0.00	0.4665039	0.10	0.0081215	9.63	0.0000000	0.00	38.62747	0.05	0.0289892	0.93	42.01215	1.10	12.41643	3.23	0.0000000	0.00	0.0234469	9.65
20F28597	6.0 %	✓	0.0357251	2.78	0.0000000	0.00	0.0135015	0.22	0.0000000	0.00	49.94994	0.14	0.0067342	2.79	0.0000000	0.00	0.5006298	0.10	0.0089910	9.63	0.0000000	0.00	41.45316	0.05	0.0320928	0.93	45.02433	0.99	11.13336	3.45	0.0000000	0.00	0.0251621	9.65
20F28598	6.8 %	✓	0.0272759	3.58	0.0000000	0.00	0.0117627	0.22	0.0000000	0.00	43.51720	0.14	0.0051415	3.58	0.0000000	0.00	0.4318046	0.10	0.0078331	9.63	0.0000000	0.00	35.75430	0.05	0.0279598	0.93	38.64383	1.08	8.50026	4.12	0.0000000	0.00	0.0217029	9.65
20F28599	7.5 %	✓	0.0329938	2.93	0.0000000	0.00	0.0118259	0.22	0.0000000	0.00	43.75094	0.14	0.0062193	2.94	0.0000000	0.00	0.3894733	0.10	0.0078752	9.63	0.0000000	0.00	32.24918	0.05	0.0281100	0.93	34.82819	1.24	10.28219	3.58	0.0000000	0.00	0.0195753	9.65
20F28601	8.3 %	✓	0.0321668	3.02	0.0000000	0.00	0.0116791	0.22	0.0000000	0.00	43.20787	0.14	0.0060634	3.02	0.0000000	0.00	0.3308423	0.11	0.0077774	9.63	0.0000000	0.00	27.39441	0.06	0.0277611	0.93	29.40109	1.46	10.02445	3.64	0.0000000	0.00	0.0166284	9.65
20F28602	9.1 %	✓	0.0382721	2.55	0.0000000	0.00	0.0118073	0.22	0.0000002	273.00	43.68212	0.14	0.0072143	2.56	0.0000000	0.00	0.2710646	0.11	0.0078628	9.63	0.0039497	273.00	22.44470	0.06	0.0280658	0.93	23.70470	1.91	11.92711	3.27	0.0000000	0.00	0.0136239	9.65
20F28603	10.1 %	✓	0.0354681	2.73	0.0000000	0.00	0.0133208	0.22	0.0000000	0.00	49.28168	0.14	0.0066857	2.74	0.0000000	0.00	0.2359614	0.11	0.0088707	9.63	0.0000000	0.00	19.53808	0.06	0.0316635	0.93	20.38543	2.16	11.05328	3.41	0.0000000	0.00	0.0118596	9.65
20F28605	11.2 %		0.0318226	3.06	0.0000000	0.00	0.0132817	0.22	0.0000000	0.00	49.13689	0.14	0.0059986	3.06	0.0000000	0.00	0.1934071	0.11	0.0088446	9.63	0.0000000	0.00	16.01450	0.07	0.0315705	0.93	16.35614	2.63	9.91719	3.68	0.0000000	0.00	0.0097208	9.65
20F28606	12.4 %		0.0275862	3.57	0.0000000	0.00	0.0140202	0.22	0.0000000	0.00	51.86902	0.14	0.0052000	3.57	0.0000000	0.00	0.1623790	0.12	0.0093364	9.63	0.0000000	0.00	13.44531	0.08	0.0333258	0.93	13.51471	3.11	8.59698	4.11	0.0000000	0.00	0.0081613	9.65
20F28607	13.6 %		0.0287675	3.39	0.0000000	0.00	0.0146456	0.22	0.0000000	#####	54.18263	0.14	0.0054227	3.40	0.0000000	0.00	0.1354962	0.13	0.0097529	9.63	0.0008998	#####	11.21936	0.10	0.0348123	0.93	10.88275	3.88	8.96511	3.96	0.0000000	0.00	0.0068102	9.65
20F28609	14.9 %		0.0215673	4.42	0.0000000	0.00	0.0132167	0.22	0.0000000	0.00	48.89638	0.14	0.0040654	4.43	0.0000000	0.00	0.0989128	0.15	0.0088013	9.63	0.0000000	0.00	8.19018	0.12	0.0314159	0.93	7.82460	5.10	6.72124	4.87	0.0000000	0.00	0.0049714	9.65
20F28610	16.2 %		0.0186168	5.13	0.0000000	0.00	0.0128667	0.22	0.0000000	0.00	47.60140	0.14	0.0035093	5.13	0.0000000	0.00	0.0761163	0.17	0.0085683	9.63	0.0000000	0.00	6.30258	0.15	0.0305839	0.93	5.96272	6.59	5.80175	5.52	0.0000000	0.00	0.0038257	9.65
20F28611	17.6 %		0.0210145	4.61	0.0000000	0.00	0.0150891	0.22	0.0000000	0.00	55.82366	0.14	0.0039612	4.61	0.0000000	0.00	0.0636521	0.20	0.0100483	9.63	0.0000000	0.00	5.27052	0.18	0.0358667	0.93	4.44111	9.03	6.54895	5.04	0.0000000	0.00	0.0031992	9.65
20F28613	19.0 %		0.0213269	4.54	0.0000000	0.00	0.0169002	0.22	0.0000000	0.00	62.52375	0.14	0.0040201	4.55	0.0000000	0.00	0.0574619	0.22	0.0112543	9.63	0.0000000	0.00	4.75796	0.20	0.0401715	0.93	3.71972	10.81	6.64632	4.98	0.0000000	0.00	0.0028881	9.65
20F28614	20.5 %		0.0273549	3.57	0.0000000	0.00	0.0209736	0.22	0.0000000	0.00	77.59361	0.14	0.0051564	3.57	0.0000000	0.00	0.0548969	0.22	0.0139669	9.63	0.0000000	0.00	4.54557	0.20	0.0498539	0.93	3.43999	12.16	8.52489	4.11	0.0000000	0.00	0.0027592	9.65
Σ			0.6868403	0.74	0.0000000	0.00	0.2385251	0.05	0.0000010	88.06	882.44578	0.03	0.1294694	0.74	0.0000000	0.00	4.4733013	0.03	0.1588402	2.28	0.0266965	87.89	370.39839	0.02	0.5669714	0.22	390.74584	0.57	214.04690	0.86	0.0000000	0.00	0.2248318	2.59
Σ										0.9253664	0.55	882.44578	0.03								4.7883074	0.50			370.96536	0.02							605.01757	0.48

Additional Parameters			40Ar/39Ar	1σ	37Ar/39Ar	1σ	36Ar/39Ar	1σ	Time (days)	37Ar (decay)	39Ar (decay)	40Ar (moles)
20F28577	0.5 %	✓	37.938013	3.422854	2.480373	0.217615	0.114270	0.011630	23.472	1.593731	1.00016651	1.575E-13
20F28579	0.7 %	✓	15.683010	1.303268	2.799476	0.140443	0.053287	0.005098	23.490	1.594299	1.00016664	1.145E-13
20F28580	0.9 %	✓	52.264985	20.084025	1.313796	0.700957	0.179342	0.071729	23.499	1.594583	1.00016670	4.646E-14
20F28582	1.1 %	✓	14.383261	4.170171	2.585245	0.417779	0.052432	0.016579	23.517	1.595152	1.00016683	3.148E-14
20F28583	1.3 %	✓	10.012941	4.635083	3.070737	0.590630	0.025342	0.018025	23.526	1.595437	1.00016689	1.877E-14
20F28585	1.5 %	✓	7.699908	0.333680	2.477584	0.035377	0.022288	0.001350	23.544	1.596028	1.00016703	1.936E-13
20F28586	1.8 %	✓	5.685061	0.630786	2.126244	0.063306	0.018034	0.002548	23.553	1.596312	1.00016709	7.438E-14
20F28587	2.2 %	✓	4.754384	0.316553	2.060295	0.030529	0.012196	0.001278	23.563	1.596597	1.00016715	1.231E-13
20F28589	2.6 %	✓	3.391601	0.129461	1.888325	0.012640	0.007394	0.000532	23.581	1.597166	1.00016728	2.132E-13
20F28590	3.1 %	✓	2.409798	0.043263	1.669761	0.004549	0.004515	0.000180	23.590	1.597451	1.00016734	4.513E-13
20F28591	3.6 %	✓	2.004567	0.013071	1.445671	0.002371	0.003326	0.000055	23.599	1.597736	1.00016741	1.244E-12
20F28593	4.1 %	✓	1.849280	0.009371	1.360050	0.002115	0.002804	0.000042	23.617	1.598306	1.00016754	1.603E-12
20F28594	4.7 %	✓	1.472376	0.007179	1.259834	0.001899	0.001554	0.000030	23.626	1.598591	1.00016760	1.663E-12
20F28595	5.3 %	✓	1.408614	0.005944	1.167190	0.001723	0.001346	0.000026	23.635	1.598898	1.00016767	1.928E-12
20F28597	6.0 %	✓	1.354285	0.005532	1.204041	0.001796	0.001187	0.000024	23.653	1.599468	1.00016779	1.989E-12
20F28598	6.8 %	✓	1.318134	0.006398	1.216167	0.001821	0.001091	0.000027	23.662	1.599754	1.00016786	1.670E-12
20F28599	7.5 %	✓	1.398195	0.007094	1.355471	0.002019	0.001389	0.000030	23.672	1.600039	1.00016792	1.598E-12
20F28601	8.3 %	✓	1.438331	0.008343	1.575654	0.002383	0.001599	0.000035	23.690	1.600610	1.00016805	1.396E-12
20F28602	9.1 %	✓	1.586162	0.010183	1.943780	0.003031	0.002228	0.000043	23.699	1.600895	1.00016811	1.262E-12
20F28603	10.1 %	✓	1.607102	0.011682	2.518259	0.003906	0.002493	0.000050	23.708	1.601181	1.00016818	1.113E-12
20F28605	11.2 %		1.637974	0.014233	3.062238	0.004815	0.002811	0.000061	23.726	1.601752	1.00016830	9.304E-13
20F28606	12.4 %		1.641105	0.016943	3.848241	0.006275	0.003087	0.000073	23.735	1.602059	1.00016837	7.830E-13
20F28607	13.6 %		1.764205	0.020314	4.814448	0.008246	0.003858	0.000087	23.744	1.602345	1.00016844	7.029E-13
20F28609	14.9 %		1.769828	0.027771	5.947311	0.011109	0.004231	0.000116	23.762	1.602917	1.00016856	5.151E-13
20F28610	16.2 %		1.858201	0.036062	7.516209	0.015305	0.004971	0.000151	23.772	1.603203	1.00016863	4.166E-13
20F28611	17.6 %		2.071703	0.043096	10.520083	0.024008	0.006804	0.000183	23.781	1.603488	1.00016869	3.892E-13
20F28613	19.0 %		2.161035	0.047667	13.030854	0.031365	0.007967	0.000202	23.799	1.604060	1.00016882	3.671E-13
20F28614	20.5 %		2.604249	0.049817	16.884957	0.040119	0.010517	0.000213	23.808	1.604346	1.00016888	4.237E-13

Procedure Blanks		36Ar ± 1σ (SE) [fA]	37Ar ± 1σ (SE) [fA]	38Ar ± 1σ (SE) [fA]	39Ar ± 1σ (SE) [fA]	40Ar ± 1σ (SE) [fA]
20F28577	0.5 %	0.0153011 ± 0.0008396	0.0102566 ± 0.0058859	0.0011677 ± 0.0074153	0.0088956 ± 0.0063356	4.3131636 ± 0.2271493
20F28579	0.7 %	0.0168677 ± 0.0008396	0.0155410 ± 0.0058859	0.0048303 ± 0.0074153	0.0075628 ± 0.0063356	4.9038404 ± 0.2271493
20F28580	0.9 %	0.0173714 ± 0.0008396	0.0174956 ± 0.0058859	0.0057597 ± 0.0074153	0.0069345 ± 0.0063356	5.0907375 ± 0.2271493
20F28582	1.1 %	0.0179281 ± 0.0008396	0.0202688 ± 0.0058859	0.0062595 ± 0.0074153	0.0058168 ± 0.0063356	5.2918495 ± 0.2271493
20F28583	1.3 %	0.0180211 ± 0.0008396	0.0211743 ± 0.0058859	0.0059909 ± 0.0074153	0.0053491 ± 0.0063356	5.3222947 ± 0.2271493
20F28585	1.5 %	0.0179184 ± 0.0008396	0.0222411 ± 0.0058859	0.0047176 ± 0.0074153	0.0046210 ± 0.0063356	5.2760893 ± 0.2271493
20F28586	1.8 %	0.0177612 ± 0.0008396	0.0224349 ± 0.0058859	0.0038925 ± 0.0074153	0.0044028 ± 0.0063356	5.2150463 ± 0.2271493
20F28587	2.2 %	0.0175544 ± 0.0008396	0.0224627 ± 0.0058859	0.0030060 ± 0.0074153	0.0042784 ± 0.0063356	5.1369847 ± 0.2271493
20F28589	2.6 %	0.0170461 ± 0.0008396	0.0221253 ± 0.0058859	0.0012398 ± 0.0074153	0.0043276 ± 0.0063356	4.9510016 ± 0.2271493
20F28590	3.1 %	0.0167686 ± 0.0008396	0.0218055 ± 0.0058859	0.0004412 ± 0.0074153	0.0045062 ± 0.0063356	4.8524694 ± 0.2271493
20F28591	3.6 %	0.0164896 ± 0.0008396	0.0214101 ± 0.0058859	0.0002562 ± 0.0074153	0.0047891 ± 0.0063356	4.7556977 ± 0.2271493
20F28593	4.1 %	0.0159629 ± 0.0008396	0.0204510 ± 0.0058859	0.0012469 ± 0.0074153	0.0056649 ± 0.0063356	4.5808979 ± 0.2271493
20F28594	4.7 %	0.0157302 ± 0.0008396	0.0199089 ± 0.0058859	0.0015040 ± 0.0074153	0.0062536 ± 0.0063356	4.5083928 ± 0.2271493
20F28595	5.3 %	0.0155117 ± 0.0008396	0.0192894 ± 0.0058859	0.0015866 ± 0.0074153	0.0069947 ± 0.0063356	4.4446801 ± 0.2271493
20F28597	6.0 %	0.0152122 ± 0.0008396	0.0180518 ± 0.0058859	0.0011955 ± 0.0074153	0.0086430 ± 0.0063356	4.3718034 ± 0.2271493
20F28598	6.8 %	0.0151203 ± 0.0008396	0.0173882 ± 0.0058859	0.0007441 ± 0.0074153	0.0095860 ± 0.0063356	4.3591520 ± 0.2271493
20F28599	7.5 %	0.0150689 ± 0.0008396	0.0166885 ± 0.0058859	0.0001381 ± 0.0074153	0.0105969 ± 0.0063356	4.3626077 ± 0.2271493
20F28601	8.3 %	0.0150869 ± 0.0008396	0.0151435 ± 0.0058859	0.0014565 ± 0.0074153	0.0127828 ± 0.0063356	4.4156883 ± 0.2271493
20F28602	9.1 %	0.0151530 ± 0.0008396	0.0142725 ± 0.0058859	0.0023903 ± 0.0074153	0.0139347 ± 0.0063356	4.4630287 ± 0.2271493
20F28603	10.1 %	0.0152531 ± 0.0008396	0.0133137 ± 0.0058859	0.0033692 ± 0.0074153	0.0151086 ± 0.0063356	4.5219075 ± 0.2271493
20F28605	11.2 %	0.0155365 ± 0.0008396	0.0110487 ± 0.0058859	0.0052908 ± 0.0074153	0.0174633 ± 0.0063356	4.6643947 ± 0.2271493
20F28606	12.4 %	0.0157212 ± 0.0008396	0.0095817 ± 0.0058859	0.0061928 ± 0.0074153	0.0186986 ± 0.0063356	4.7478304 ± 0.2271493
20F28607	13.6 %	0.0159021 ± 0.0008396	0.0080242 ± 0.0058859	0.0068665 ± 0.0074153	0.0198003 ± 0.0063356	4.8242943 ± 0.2271493
20F28609	14.9 %	0.0162530 ± 0.0008396	0.0042110 ± 0.0058859	0.0074727 ± 0.0074153	0.0217930 ± 0.0063356	4.9562275 ± 0.2271493
20F28610	16.2 %	0.0164016 ± 0.0008396	0.0018819 ± 0.0058859	0.0072593 ± 0.0074153	0.0226421 ± 0.0063356	5.0016049 ± 0.2271493
20F28611	17.6 %	0.0165160 ± 0.0008396	0.0007825 ± 0.0058859	0.0065951 ± 0.0074153	0.0233632 ± 0.0063356	5.0257228 ± 0.2271493
20F28613	19.0 %	0.0165870 ± 0.0008396	0.0072965 ± 0.0058859	0.0035605 ± 0.0074153	0.0243248 ± 0.0063356	4.9846802 ± 0.2271493
20F28614	20.5 %	0.0165131 ± 0.0008396	0.0112430 ± 0.0058859	0.0009993 ± 0.0074153	0.0245141 ± 0.0063356	4.9055613 ± 0.2271493

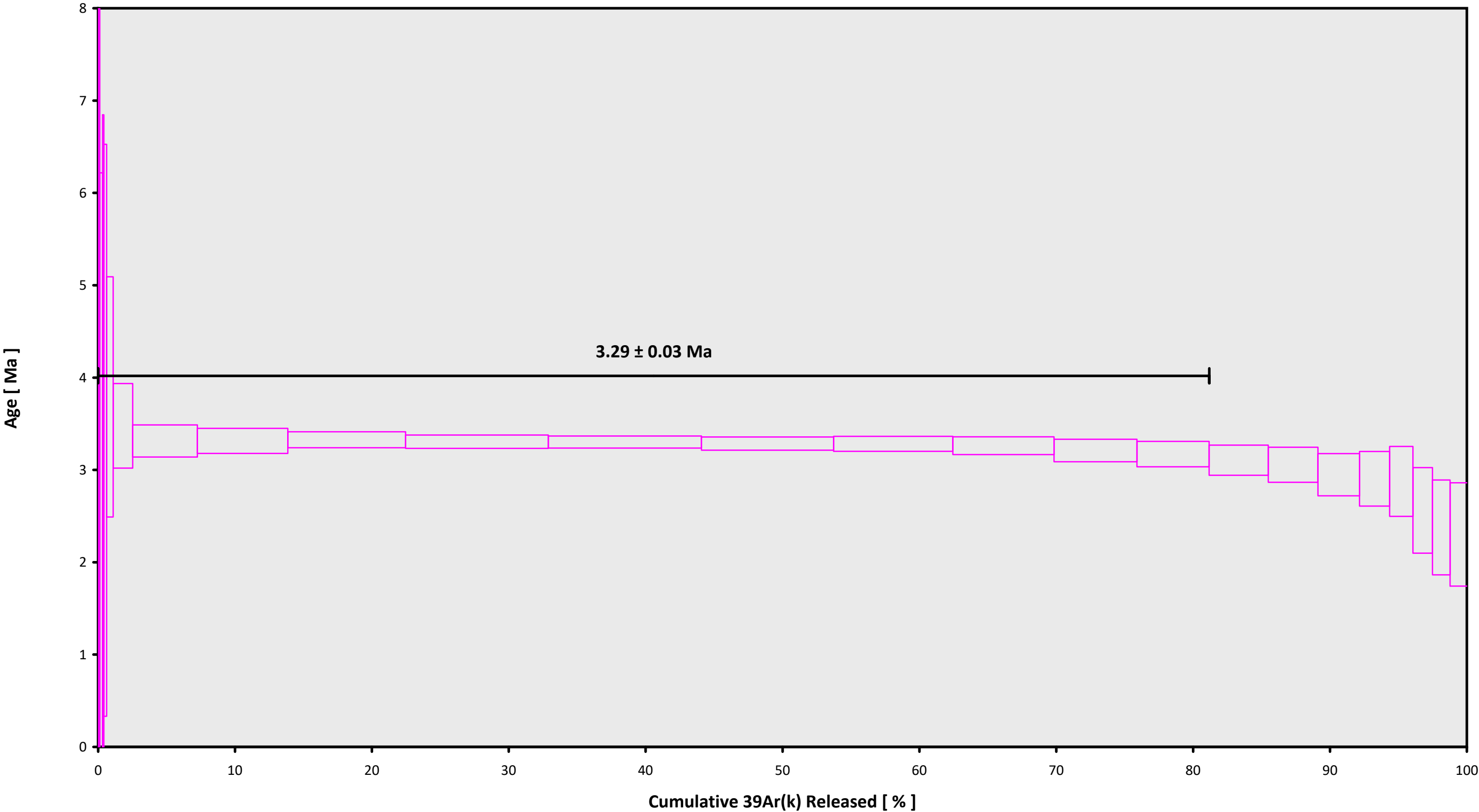
Intercept Values		36Ar ± 1σ (SE) [fA]	r2	Regression (type,n)	37Ar ± 1σ (SE) [fA]	r2	Regression (type,n)	38Ar ± 1σ (SE) [fA]	r2	Regression (type,n)	39Ar ± 1σ (SE) [fA]	r2	Regression (type,n)	40Ar ± 1σ (SE) [fA]	r2	Regression (type,n)
20F28577	0.5 %	0.0279019 ± 0.0002510	0.7024	EXP 150 of 150	0.172353 ± 0.006158	0.0527	EXP 149 of 150	0.0104162 ± 0.0069907	0.0338	EXP 149 of 150	0.1261729 ± 0.0059810	0.3301	EXP 150 of 150	8.762485 ± 0.016775	0.9952	EXP 150 of 150
20F28579	0.7 %	0.0272020 ± 0.0002522	0.5667	EXP 150 of 150	0.346803 ± 0.006254	0.2532	EXP 150 of 150	0.0037018 ± 0.0066961	0.0001	EXP 150 of 150	0.2138193 ± 0.0065534	0.2308	EXP 150 of 150	8.138601 ± 0.014985	0.9958	EXP 150 of 150
20F28580	0.9 %	0.0216056 ± 0.0002350	0.7314	EXP 150 of 150	0.003203 ± 0.006078	0.0001	EXP 150 of 150	0.0053193 ± 0.0068045	0.0000	EXP 149 of 150	0.0320443 ± 0.0058298	0.4316	EXP 150 of 150	6.403119 ± 0.015577	0.9958	EXP 149 of 150
20F28582	1.1 %	0.0209757 ± 0.0002289	0.7374	EXP 147 of 150	0.079964 ± 0.006516	0.0166	EXP 148 of 150	0.0049469 ± 0.0074327	0.0001	EXP 150 of 150	0.0676331 ± 0.0055065	0.3441	EXP 149 of 150	6.180979 ± 0.016740	0.9947	EXP 150 of 150
20F28583	1.3 %	0.0192828 ± 0.0002300	0.7397	EXP 150 of 150	0.080786 ± 0.006267	0.0375	EXP 150 of 150	0.0006134 ± 0.0073142	0.0043	EXP 150 of 150	0.0582987 ± 0.0066061	0.3238	EXP 146 of 150	5.852482 ± 0.015437	0.9954	EXP 149 of 150
20F28585	1.5 %	0.0328065 ± 0.0002755	0.3882	EXP 150 of 150	1.081098 ± 0.005894	0.7756	EXP 150 of 150	0.0133968 ± 0.0074930	0.0138	EXP 149 of 150	0.7150389 ± 0.0057456	0.1704	EXP 150 of 150	10.746308 ± 0.016020	0.9919	EXP 148 of 150
20F28586	1.8 %	0.0240281 ± 0.0002382	0.6209	EXP 150 of 150	0.470076 ± 0.006443	0.4027	EXP 150 of 150	0.0062830 ± 0.0069696	0.0071	EXP 149 of 150	0.3739873 ± 0.0061478	0.0088	EXP 150 of 150	7.316183 ± 0.015296	0.9945	EXP 149 of 150
20F28587	2.2 %	0.0259411 ± 0.0002406	0.6343	EXP 149 of 150	0.921766 ± 0.005853	0.7607	EXP 149 of 150	0.0018425 ± 0.0082562	0.0029	EXP 150 of 150	0.7356463 ± 0.0059095	0.2613	EXP 150 of 150	8.614231 ± 0.017491	0.9916	EXP 150 of 150
20F28589	2.6 %	0.0293900 ± 0.0002828	0.5523	EXP 150 of 150	2.078175 ± 0.006443	0.9191	EXP 150 of 150	0.0157031 ± 0.0071436	0.0032	EXP 149 of 150	1.7799377 ± 0.0063677	0.8286	EXP 149 of 150	10.973238 ± 0.017665	0.9881	EXP 150 of 150
20F28590	3.1 %	0.0392289 ± 0.0003099	0.2714	EXP 150 of 150	5.510713 ± 0.006270	0.9885	EXP 150 of 150	0.0640631 ± 0.0075687	0.0074	EXP 150 of 150	5.2949104 ± 0.0067327	0.9830	EXP 150 of 150	17.601436 ± 0.016385	0.9755	EXP 149 of 150
20F28591	3.6 %	0.0713320 ± 0.0003425	0.1404	EXP 149 of 150	15.853622 ± 0.008305	0.9976	EXP 149 of 150	0.2044389 ± 0.0091058	0.0302	EXP 150 of 150	17.5412886 ± 0.0077809	0.9982	EXP 148 of 150	39.909222 ± 0.018955	0.9654	EXP 150 of 150
20F28593	4.1 %	0.0805204 ± 0.0004661	0.1670	EXP 148 of 150	20.824387 ± 0.009221	0.9983	EXP 148 of 150	0.3018856 ± 0.0066420	0.1647	EXP 150 of 150	24.4904432 ± 0.0086433	0.9988	EXP 149 of 150	49.860682 ± 0.018637	0.9909	EXP 150 of 150
20F28594	4.7 %	0.0623483 ± 0.0003539	0.0413	EXP 149 of 150	25.134326 ± 0.009294	0.9988	EXP 150 of 150	0.3843455 ± 0.0067599	0.2306	EXP 147 of 150	31.9089751 ± 0.0095657	0.9992	EXP 150 of 150	51.481779 ± 0.015769	0.9941	EXP 149 of 150
20F28595	5.3 %	0.0644409 ± 0.0004020	0.0133	EXP 149 of 150	28.212916 ± 0.008614	0.9992	EXP 149 of 150	0.4621062 ± 0.0068484	0.2773	EXP 148 of 150	38.6629600 ± 0.0097288	0.9994	EXP 150 of 150	58.896704 ± 0.022024	0.9936	EXP 150 of 150
20F28597	6.0 %	0.0614980 ± 0.0004022	0.0640	EXP 150 of 150	31.225557 ± 0.012404	0.9986	EXP 150 of 150	0.5147729 ± 0.0077898	0.3647	EXP 150 of 150	41.4933578 ± 0.0098084	0.9995	EXP 150 of 150	60.554651 ± 0.018494	0.9959	EXP 149 of 150
20F28598	6.8 %	0.0518268 ± 0.0003640	0.1408	EXP 146 of 150	27.197696 ± 0.010028	0.9988	EXP 148 of 150	0.4323283 ± 0.0075053	0.2871	EXP 150 of 150	35.7913785 ± 0.0097708	0.9993	EXP 150 of 150	51.524945 ± 0.015704	0.9944	EXP 147 of 150
20F28599	7.5 %	0.0572111 ± 0.0003433	0.0994	EXP 149 of 150	27.339695 ± 0.008691	0.9991	EXP 150 of 150	0.3915004 ± 0.0080030	0.2380	EXP 150 of 150	32.2874662 ± 0.0091108	0.9993	EXP 148 of 150	49.492554 ± 0.016896	0.9921	EXP 150 of 150
20F28601	8.3 %	0.0563134 ± 0.0003498	0.0519	EXP 149 of 150	26.992037 ± 0.009552	0.9989	EXP 150 of 150	0.3288436 ± 0.0066932	0.1753	EXP 150 of 150	27.4345940 ± 0.0089293	0.9990	EXP 150 of 150	43.857857 ± 0.016116	0.9882	EXP 147 of 150
20F28602	9.1 %	0.0622407 ± 0.0003638	0.0000	EXP 149 of 150	27.284474 ± 0.012268	0.9982	EXP 150 of 150	0.2877911 ± 0.0077583	0.1698	EXP 150 of 150	22.4864028 ± 0.0086346	0.9986	EXP 150 of 150	40.108466 ± 0.017196	0.9749	EXP 149 of 150
20F28603	10.1 %	0.0611274 ± 0.0003459	0.0043	EXP 150 of 150	30.779333 ± 0.011782	0.9987	EXP 149 of 150	0.2390134 ± 0.0075439	0.0930	EXP 150 of 150	19.5845901 ± 0.0078927	0.9985	EXP 150 of 150	35.972471 ± 0.015817	0.9455	EXP 150 of 150
20F28605	11.2 %	0.0579463 ± 0.0003560	0.0002	EXP 150 of 150	30.680185 ± 0.012046	0.9987	EXP 150 of 150	0.1986132 ± 0.0069996	0.0653	EXP 149 of 150	16.0633210 ± 0.0066052	0.9984	EXP 150 of 150	30.947450 ± 0.015341	0.7402	EXP 147 of 150
20F28606	12.4 %	0.0548421 ± 0.0003830	0.0454	EXP 150 of 150	32.381938 ± 0.013199	0.9985	EXP 149 of 150	0.1634645 ± 0.0068906	0.0640	EXP 148 of 150	13.4971482 ± 0.0071603	0.9973	EXP 149 of 150	26.867679 ± 0.015342	0.4496	EXP 150 of 150
20F28607	13.6 %	0.0567217 ± 0.0003652	0.0062	EXP 148 of 150	33.822278 ± 0.010463	0.9991	EXP 149 of 150	0.1447521 ± 0.0069595	0.0613	EXP 149 of 150	11.2738197 ± 0.0082190	0.9949	EXP 147 of 150	24.678963 ± 0.016601	0.8174	EXP 149 of 150
20F28609	14.9 %	0.0489590 ± 0.0003101	0.1469	EXP 148 of 150	30.514600 ± 0.010319	0.9990	EXP 150 of 150	0.1019370 ± 0.0069140	0.0202	EXP 150 of 150	8.2432747 ± 0.0072901	0.9922	EXP 150 of 150	19.507035 ± 0.014505	0.9690	EXP 148 of 150
20F28610	16.2 %	0.0460043 ± 0.0003119	0.2459	EXP 147 of 150	29.703369 ± 0.012405	0.9984	EXP 150 of 150	0.0781593 ± 0.0073412	0.0126	EXP 150 of 150	6.3557215 ± 0.0062493	0.9899	EXP 150 of 150	16.769898 ± 0.016402	0.9765	EXP 150 of 150
20F28611	17.6 %	0.0504628 ± 0.0003482	0.0638	EXP 150 of 150	34.830851 ± 0.011870	0.9989	EXP 150 of 150	0.0688165 ± 0.0083412	0.0078	EXP 150 of 150	5.3296793 ± 0.0068764	0.9824	EXP 150 of 150	16.018986 ± 0.017504	0.9767	EXP 150 of 150
20F28613	19.0 %	0.0525305 ± 0.0003484	0.0247	EXP 147 of 150	39.003843 ± 0.014891	0.9987	EXP 150 of 150	0.0590872 ± 0.0075720	0.0103	EXP 150 of 150	4.8223890 ± 0.0066521	0.9793	EXP 150 of 150	15.353611 ± 0.017384	0.9797	EXP 150 of 150
20F28614	20.5 %	0.0619545 ± 0.0003619	0.0019	EXP 150 of 150	48.398354 ± 0.014569	0.9992	EXP 150 of 150	0.0588383 ± 0.0077426	0.0015	EXP 150 of 150	4.6198784 ± 0.0059560	0.9812	EXP 150 of 150	16.873203 ± 0.016703	0.9782	EXP 149 of 150

Project Info		Analyst	Irradiation	X-pos	Y-pos	Z/H-pos	Project	Experiment	Nmb
20F28577	0.5 %	Dan Miggins	20-OSU-04	0.00	0.00	7.16	Oregon\McClaghry (19-20)	20F28573	01
20F28579	0.7 %	Dan Miggins	20-OSU-04	0.00	0.00	7.16	Oregon\McClaghry (19-20)	20F28573	01
20F28580	0.9 %	Dan Miggins	20-OSU-04	0.00	0.00	7.16	Oregon\McClaghry (19-20)	20F28573	01
20F28582	1.1 %	Dan Miggins	20-OSU-04	0.00	0.00	7.16	Oregon\McClaghry (19-20)	20F28573	01
20F28583	1.3 %	Dan Miggins	20-OSU-04	0.00	0.00	7.16	Oregon\McClaghry (19-20)	20F28573	01
20F28585	1.5 %	Dan Miggins	20-OSU-04	0.00	0.00	7.16	Oregon\McClaghry (19-20)	20F28573	01
20F28586	1.8 %	Dan Miggins	20-OSU-04	0.00	0.00	7.16	Oregon\McClaghry (19-20)	20F28573	01
20F28587	2.2 %	Dan Miggins	20-OSU-04	0.00	0.00	7.16	Oregon\McClaghry (19-20)	20F28573	01
20F28589	2.6 %	Dan Miggins	20-OSU-04	0.00	0.00	7.16	Oregon\McClaghry (19-20)	20F28573	01
20F28590	3.1 %	Dan Miggins	20-OSU-04	0.00	0.00	7.16	Oregon\McClaghry (19-20)	20F28573	01
20F28591	3.6 %	Dan Miggins	20-OSU-04	0.00	0.00	7.16	Oregon\McClaghry (19-20)	20F28573	01
20F28593	4.1 %	Dan Miggins	20-OSU-04	0.00	0.00	7.16	Oregon\McClaghry (19-20)	20F28573	01
20F28594	4.7 %	Dan Miggins	20-OSU-04	0.00	0.00	7.16	Oregon\McClaghry (19-20)	20F28573	01
20F28595	5.3 %	Dan Miggins	20-OSU-04	0.00	0.00	7.16	Oregon\McClaghry (19-20)	20F28573	01
20F28597	6.0 %	Dan Miggins	20-OSU-04	0.00	0.00	7.16	Oregon\McClaghry (19-20)	20F28573	01
20F28598	6.8 %	Dan Miggins	20-OSU-04	0.00	0.00	7.16	Oregon\McClaghry (19-20)	20F28573	01
20F28599	7.5 %	Dan Miggins	20-OSU-04	0.00	0.00	7.16	Oregon\McClaghry (19-20)	20F28573	01
20F28601	8.3 %	Dan Miggins	20-OSU-04	0.00	0.00	7.16	Oregon\McClaghry (19-20)	20F28573	01
20F28602	9.1 %	Dan Miggins	20-OSU-04	0.00	0.00	7.16	Oregon\McClaghry (19-20)	20F28573	01
20F28603	10.1 %	Dan Miggins	20-OSU-04	0.00	0.00	7.16	Oregon\McClaghry (19-20)	20F28573	01
20F28605	11.2 %	Dan Miggins	20-OSU-04	0.00	0.00	7.16	Oregon\McClaghry (19-20)	20F28573	01
20F28606	12.4 %	Dan Miggins	20-OSU-04	0.00	0.00	7.16	Oregon\McClaghry (19-20)	20F28573	01
20F28607	13.6 %	Dan Miggins	20-OSU-04	0.00	0.00	7.16	Oregon\McClaghry (19-20)	20F28573	01
20F28609	14.9 %	Dan Miggins	20-OSU-04	0.00	0.00	7.16	Oregon\McClaghry (19-20)	20F28573	01
20F28610	16.2 %	Dan Miggins	20-OSU-04	0.00	0.00	7.16	Oregon\McClaghry (19-20)	20F28573	01
20F28611	17.6 %	Dan Miggins	20-OSU-04	0.00	0.00	7.16	Oregon\McClaghry (19-20)	20F28573	01
20F28613	19.0 %	Dan Miggins	20-OSU-04	0.00	0.00	7.16	Oregon\McClaghry (19-20)	20F28573	01
20F28614	20.5 %	Dan Miggins	20-OSU-04	0.00	0.00	7.16	Oregon\McClaghry (19-20)	20F28573	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
20F28577	0.5 %	108 BRHC 19	Groundmass	Burns Butte	FCT-NM (4B6-20)	28.201	0.082	Kuiper et al (2008)	9.34111	0.048	0.00166206	0.048	298.375	0.115	1.00015521	0.039	1	3.54E-14	25	OCT	2020	2	55	1
20F28579	0.7 %	108 BRHC 19	Groundmass	Burns Butte	FCT-NM (4B6-20)	28.201	0.082	Kuiper et al (2008)	9.34111	0.048	0.00166206	0.048	298.375	0.115	1.00015521	0.039	1	3.54E-14	25	OCT	2020	3	21	1
20F28580	0.9 %	108 BRHC 19	Groundmass	Burns Butte	FCT-NM (4B6-20)	28.201	0.082	Kuiper et al (2008)	9.34111	0.048	0.00166206	0.048	298.375	0.115	1.00015521	0.039	1	3.54E-14	25	OCT	2020	3	34	1
20F28582	1.1 %	108 BRHC 19	Groundmass	Burns Butte	FCT-NM (4B6-20)	28.201	0.082	Kuiper et al (2008)	9.34111	0.048	0.00166206	0.048	298.375	0.115	1.00015521	0.039	1	3.54E-14	25	OCT	2020	4	0	1
20F28583	1.3 %	108 BRHC 19	Groundmass	Burns Butte	FCT-NM (4B6-20)	28.201	0.082	Kuiper et al (2008)	9.34111	0.048	0.00166206	0.048	298.375	0.115	1.00015521	0.039	1	3.54E-14	25	OCT	2020	4	13	1
20F28585	1.5 %	108 BRHC 19	Groundmass	Burns Butte	FCT-NM (4B6-20)	28.201	0.082	Kuiper et al (2008)	9.34111	0.048	0.00166206	0.048	298.375	0.115	1.00015521	0.039	1	3.54E-14	25	OCT	2020	4	40	1
20F28586	1.8 %	108 BRHC 19	Groundmass	Burns Butte	FCT-NM (4B6-20)	28.201	0.082	Kuiper et al (2008)	9.34111	0.048	0.00166206	0.048	298.375	0.115	1.00015521	0.039	1	3.54E-14	25	OCT	2020	4	53	1
20F28587	2.2 %	108 BRHC 19	Groundmass	Burns Butte	FCT-NM (4B6-20)	28.201	0.082	Kuiper et al (2008)	9.34111	0.048	0.00166206	0.048	298.375	0.115	1.00015521	0.039	1	3.54E-14	25	OCT	2020	5	6	1
20F28589	2.6 %	108 BRHC 19	Groundmass	Burns Butte	FCT-NM (4B6-20)	28.201	0.082	Kuiper et al (2008)	9.34111	0.048	0.00166206	0.048	298.375	0.115	1.00015521	0.039	1	3.54E-14	25	OCT	2020	5	32	1
20F28590	3.1 %	108 BRHC 19	Groundmass	Burns Butte	FCT-NM (4B6-20)	28.201	0.082	Kuiper et al (2008)	9.34111	0.048	0.00166206	0.048	298.375	0.115	1.00015521	0.039	1	3.54E-14	25	OCT	2020	5	45	1
20F28591	3.6 %	108 BRHC 19	Groundmass	Burns Butte	FCT-NM (4B6-20)	28.201	0.082	Kuiper et al (2008)	9.34111	0.048	0.00166206	0.048	298.375	0.115	1.00015521	0.039	1	3.54E-14	25	OCT	2020	5	58	1
20F28593	4.1 %	108 BRHC 19	Groundmass	Burns Butte	FCT-NM (4B6-20)	28.201	0.082	Kuiper et al (2008)	9.34111	0.048	0.00166206	0.048	298.375	0.115	1.00015521	0.039	1	3.54E-14	25	OCT	2020	6	24	1
20F28594	4.7 %	108 BRHC 19	Groundmass	Burns Butte	FCT-NM (4B6-20)	28.201	0.082	Kuiper et al (2008)	9.34111	0.048	0.00166206	0.048	298.375	0.115	1.00015521	0.039	1	3.54E-14	25	OCT	2020	6	37	1
20F28595	5.3 %	108 BRHC 19	Groundmass	Burns Butte	FCT-NM (4B6-20)	28.201	0.082	Kuiper et al (2008)	9.34111	0.048	0.00166206	0.048	298.375	0.115	1.00015521	0.039	1	3.54E-14	25	OCT	2020	6	51	1
20F28597	6.0 %	108 BRHC 19	Groundmass	Burns Butte	FCT-NM (4B6-20)	28.201	0.082	Kuiper et al (2008)	9.34111	0.048	0.00166206	0.048	298.375	0.115	1.00015521	0.039	1	3.54E-14	25	OCT	2020	7	17	1
20F28598	6.8 %	108 BRHC 19	Groundmass	Burns Butte	FCT-NM (4B6-20)	28.201	0.082	Kuiper et al (2008)	9.34111	0.048	0.00166206	0.048	298.375	0.115	1.00015521	0.039	1	3.54E-14	25	OCT	2020	7	30	1
20F28599	7.5 %	108 BRHC 19	Groundmass	Burns Butte	FCT-NM (4B6-20)	28.201	0.082	Kuiper et al (2008)	9.34111	0.048	0.00166206	0.048	298.375	0.115	1.00015521	0.039	1	3.54E-14	25	OCT	2020	7	43	1
20F28601	8.3 %	108 BRHC 19	Groundmass	Burns Butte	FCT-NM (4B6-20)	28.201	0.082	Kuiper et al (2008)	9.34111	0.048	0.00166206	0.048	298.375	0.115	1.00015521	0.039	1	3.54E-14	25	OCT	2020	8	9	1
20F28602	9.1 %	108 BRHC 19	Groundmass	Burns Butte	FCT-NM (4B6-20)	28.201	0.082	Kuiper et al (2008)	9.34111	0.048	0.00166206	0.048	298.375	0.115	1.00015521	0.039	1	3.54E-14	25	OCT	2020	8	22	1
20F28603	10.1 %	108 BRHC 19	Groundmass	Burns Butte	FCT-NM (4B6-20)	28.201	0.082	Kuiper et al (2008)	9.34111	0.048	0.00166206	0.048	298.375	0.115	1.00015521	0.039	1	3.54E-14	25	OCT	2020	8	35	1
20F28605	11.2 %	108 BRHC 19	Groundmass	Burns Butte	FCT-NM (4B6-20)	28.201	0.082	Kuiper et al (2008)	9.34111	0.048	0.00166206	0.048	298.375	0.115	1.00015521	0.039	1	3.54E-14	25	OCT	2020	9	1	1
20F28606	12.4 %	108 BRHC 19	Groundmass	Burns Butte	FCT-NM (4B6-20)	28.201	0.082	Kuiper et al (2008)	9.34111	0.048	0.00166206	0.048	298.375	0.115	1.00015521	0.039	1	3.54E-14	25	OCT	2020	9	15	1
20F28607	13.6 %	108 BRHC 19	Groundmass	Burns Butte	FCT-NM (4B6-20)	28.201	0.082	Kuiper et al (2008)	9.34111	0.048	0.00166206	0.048	298.375	0.115	1.00015521	0.039	1	3.54E-14	25	OCT	2020	9	28	1
20F28609	14.9 %	108 BRHC 19	Groundmass	Burns Butte	FCT-NM (4B6-20)	28.201	0.082	Kuiper et al (2008)	9.34111	0.048	0.00166206	0.048	298.375	0.115	1.00015521	0.039	1	3.54E-14	25	OCT	2020	9	54	1
20F28610	16.2 %	108 BRHC 19	Groundmass	Burns Butte	FCT-NM (4B6-20)	28.201	0.082	Kuiper et al (2008)	9.34111	0.048	0.00166206	0.048	298.375	0.115	1.00015521	0.039	1	3.54E-14	25	OCT	2020	10	7	1
20F28611	17.6 %	108 BRHC 19	Groundmass	Burns Butte	FCT-NM (4B6-20)	28.201	0.082	Kuiper et al (2008)	9.34111	0.048	0.00166206	0.048	298.375	0.115	1.00015521	0.039	1	3.54E-14	25	OCT	2020	10	20	1
20F28613	19.0 %	108 BRHC 19	Groundmass	Burns Butte	FCT-NM (4B6-20)	28.201	0.082	Kuiper et al (2008)	9.34111	0.048	0.00166206	0.048	298.375	0.115	1.00015521	0.039	1	3.54E-14	25	OCT	2020	10	46	1
20F28614	20.5 %	108 BRHC 19	Groundmass	Burns Butte	FCT-NM (4B6-20)	28.201	0.082	Kuiper et al (2008)	9.34111	0.048	0.00166206	0.048	298.375	0.115	1.00015521	0.039	1	3.54E-14	25	OCT	2020	10	59	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
20F28577	0.5 %	311.64	2.045	0.018	35	0.1885	0.159	1.493	3	0.0006425	0.92	0.00018	9.63	0.0002703	0.17	0.000607	9.65	0.012077	0.09	0	0	0.43	0	0	0	0	0
20F28579	0.7 %	311.64	2.045	0.018	35	0.1885	0.159	1.493	3	0.0006425	0.92	0.00018	9.63	0.0002703	0.17	0.000607	9.65	0.012077	0.09	0	0	0.43	0	0	0	0	0
20F28580	0.9 %	311.64	2.045	0.018	35	0.1885	0.159	1.493	3	0.0006425	0.92	0.00018	9.63	0.0002703	0.17	0.000607	9.65	0.012077	0.09	0	0	0.43	0	0	0	0	0
20F28582	1.1 %	311.64	2.045	0.018	35	0.1885	0.159	1.493	3	0.0006425	0.92	0.00018	9.63	0.0002703	0.17	0.000607	9.65	0.012077	0.09	0	0	0.43	0	0	0	0	0
20F28583	1.3 %	311.64	2.045	0.018	35	0.1885	0.159	1.493	3	0.0006425	0.92	0.00018	9.63	0.0002703	0.17	0.000607	9.65	0.012077	0.09	0	0	0.43	0	0	0	0	0
20F28585	1.5 %	311.64	2.045	0.018	35	0.1885	0.159	1.493	3	0.0006425	0.92	0.00018	9.63	0.0002703	0.17	0.000607	9.65	0.012077	0.09	0	0	0.43	0	0	0	0	0
20F28586	1.8 %	311.64	2.045	0.018	35	0.1885	0.159	1.493	3	0.0006425	0.92	0.00018	9.63	0.0002703	0.17	0.000607	9.65	0.012077	0.09	0	0	0.43	0	0	0	0	0
20F28587	2.2 %	311.64	2.045	0.018	35	0.1885	0.159	1.493	3	0.0006425	0.92	0.00018	9.63	0.0002703	0.17	0.000607	9.65	0.012077	0.09	0	0	0.43	0	0	0	0	0
20F28589	2.6 %	311.64	2.045	0.018	35	0.1885	0.159	1.493	3	0.0006425	0.92	0.00018	9.63	0.0002703	0.17	0.000607	9.65	0.012077	0.09	0	0	0.43	0	0	0	0	0
20F28590	3.1 %	311.64	2.045	0.018	35	0.1885	0.159	1.493	3	0.0006425	0.92	0.00018	9.63	0.0002703	0.17	0.000607	9.65	0.012077	0.09	0	0	0.43	0	0	0	0	0
20F28591	3.6 %	311.64	2.045	0.018	35	0.1885	0.159	1.493	3	0.0006425	0.92	0.00018	9.63	0.0002703	0.17	0.000607	9.65	0.012077	0.09	0	0	0.43	0	0	0	0	0
20F28593	4.1 %	311.64	2.045	0.018	35	0.1885	0.159	1.493	3	0.0006425	0.92	0.00018	9.63	0.0002703	0.17	0.000607	9.65	0.012077	0.09	0	0	0.43	0	0	0	0	0
20F28594	4.7 %	311.64	2.045	0.018	35	0.1885	0.159	1.493	3	0.0006425	0.92	0.00018	9.63	0.0002703	0.17	0.000607	9.65	0.012077	0.09	0	0	0.43	0	0	0	0	0
20F28595	5.3 %	311.64	2.045	0.018	35	0.1885	0.159	1.493	3	0.0006425	0.92	0.00018	9.63	0.0002703	0.17	0.000607	9.65	0.012077	0.09	0	0	0.43	0	0	0	0	0
20F28597	6.0 %	311.64	2.045	0.018	35	0.1885	0.159	1.493	3	0.0006425	0.92	0.00018	9.63	0.0002703	0.17	0.000607	9.65	0.012077	0.09	0	0	0.43	0	0	0	0	0
20F28598	6.8 %	311.64	2.045	0.018	35	0.1885	0.159	1.493	3	0.0006425	0.92	0.00018	9.63	0.0002703	0.17	0.000607	9.65	0.012077	0.09	0	0	0.43	0	0	0	0	0
20F28599	7.5 %	311.64	2.045	0.018	35	0.1885	0.159	1.493	3	0.0006425	0.92	0.00018	9.63	0.0002703	0.17	0.000607	9.65	0.012077	0.09	0	0	0.43	0	0	0	0	0
20F28601	8.3 %	311.64	2.045	0.018	35	0.1885	0.159	1.493	3	0.0006425	0.92	0.00018	9.63	0.0002703	0.17	0.000607	9.65	0.012077	0.09	0	0	0.43	0	0	0	0	0
20F28602	9.1 %	311.64	2.045	0.018	35	0.1885	0.159	1.493	3	0.0006425	0.92	0.00018	9.63	0.0002703	0.17	0.000607	9.65	0.012077	0.09	0	0	0.43	0	0	0	0	0
20F28603	10.1 %	311.64	2.045	0.018	35	0.1885	0.159	1.493	3	0.0006425	0.92	0.00018	9.63	0.0002703	0.17	0.000607	9.65	0.012077	0.09	0	0	0.43	0	0	0	0	0
20F28605	11.2 %	311.64	2.045	0.018	35	0.1885	0.159	1.493	3	0.0006425	0.92	0.00018	9.63	0.0002703	0.17	0.000607	9.65	0.012077	0.09	0	0	0.43	0	0	0	0	0
20F28606	12.4 %	311.64	2.045	0.018	35	0.1885	0.159	1.493	3	0.0006425	0.92	0.00018	9.63	0.0002703	0.17	0.000607	9.65	0.012077	0.09	0	0	0.43	0	0	0	0	0
20F28607	13.6 %	311.64	2.045	0.018	35	0.1885	0.159	1.493	3	0.0006425	0.92	0.00018	9.63	0.0002703	0.17	0.000607	9.65	0.012077	0.09	0	0	0.43	0	0	0	0	0
20F28609	14.9 %	311.64	2.045	0.018	35	0.1885	0.159	1.493	3	0.0006425	0.92	0.00018	9.63	0.0002703	0.17	0.000607	9.65	0.012077	0.09	0	0	0.43	0	0	0	0	0
20F28610	16.2 %	311.64	2.045	0.018	35	0.1885	0.159	1.493	3	0.0006425	0.92	0.00018	9.63	0.0002703	0.17	0.000607	9.65	0.012077	0.09	0	0	0.43	0	0	0	0	0
20F28611	17.6 %	311.64	2.045	0.018	35	0.1885	0.159	1.493	3	0.0006425	0.92	0.00018	9.63	0.0002703	0.17	0.000607	9.65	0.012077	0.09	0	0	0.43	0	0	0	0	0
20F28613	19.0 %	311.64	2.045	0.018	35	0.1885	0.159	1.493	3	0.0006425	0.92	0.00018	9.63	0.0002703	0.17	0.000607	9.65	0.012077	0.09	0	0	0.43	0	0	0	0	0
20F28614	20.5 %	311.64	2.045	0.018	35	0.1885	0.159	1.493	3	0.0006425	0.92	0.00018	9.63	0.0002703	0.17	0.000607	9.65	0.012077	0.09	0	0	0.43	0	0	0	0	0

20F28573.AGE >>> 108 BRHC 19 >>> OREGON | MCCLAUGHRY (19-20) PROJECT



Ar-Ages in Ma

WEIGHTED PLATEAU

3.29 ± 0.03

TOTAL FUSION

3.21 ± 0.04

NORMAL ISOCHRON

3.29 ± 0.05

INVERSE ISOCHRON

3.29 ± 0.05

MSWD (PROBABILITY)

0.52 (96%)

Sample Info

Groundmass

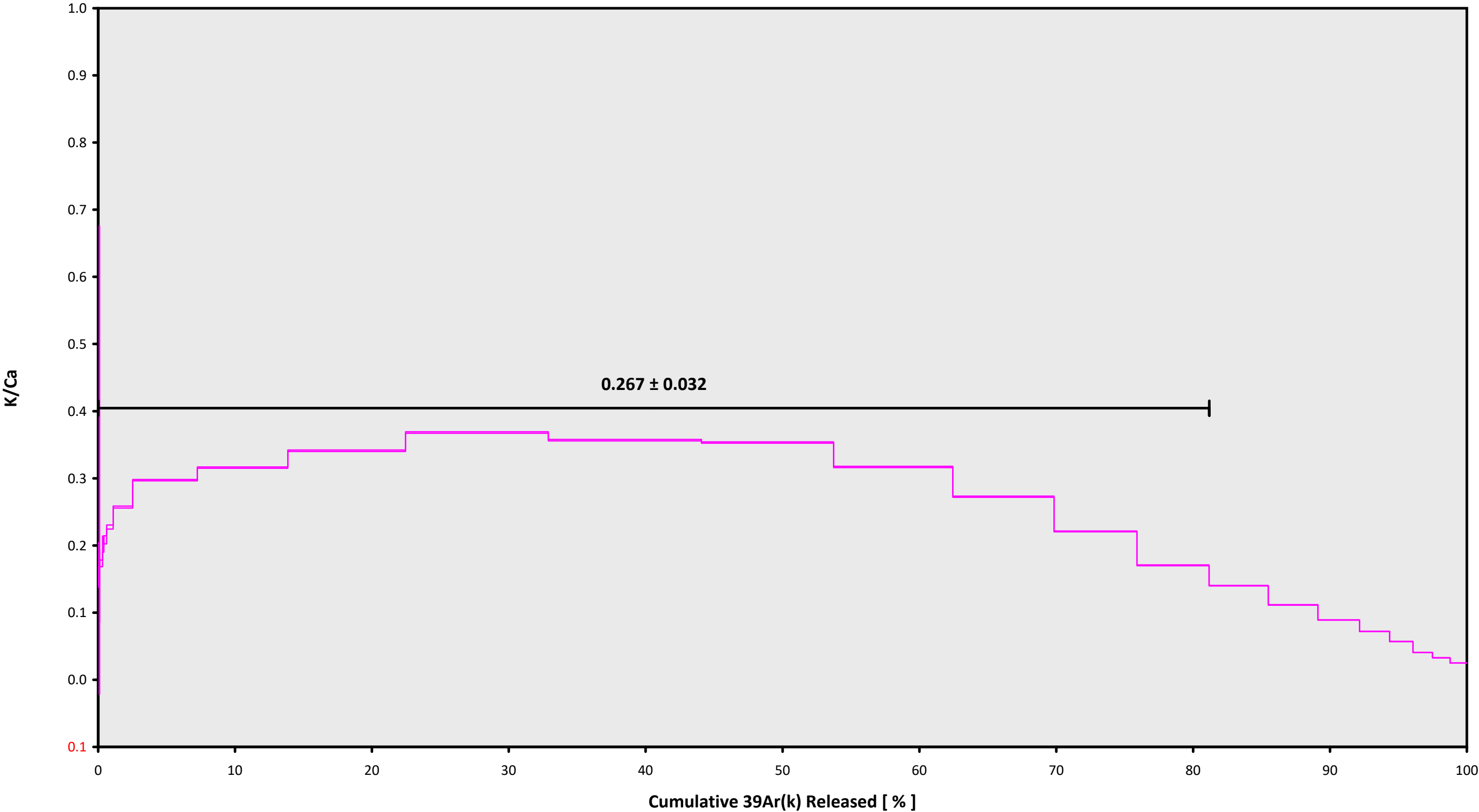
Burns Butte

Dan Miggins

IRR = 20-OSU-04 (4B6-20)

J = 0.00166206 ± 0.00000080

20F28573.AGE >>> 108 BRHC 19 >>> OREGON | MCCLAUGHRY (19-20) PROJECT



Ar-Ages in Ma

WEIGHTED PLATEAU

3.29 ± 0.03

TOTAL FUSION

3.21 ± 0.04

NORMAL ISOCHRON

3.29 ± 0.05

INVERSE ISOCHRON

3.29 ± 0.05

Sample Info

Groundmass

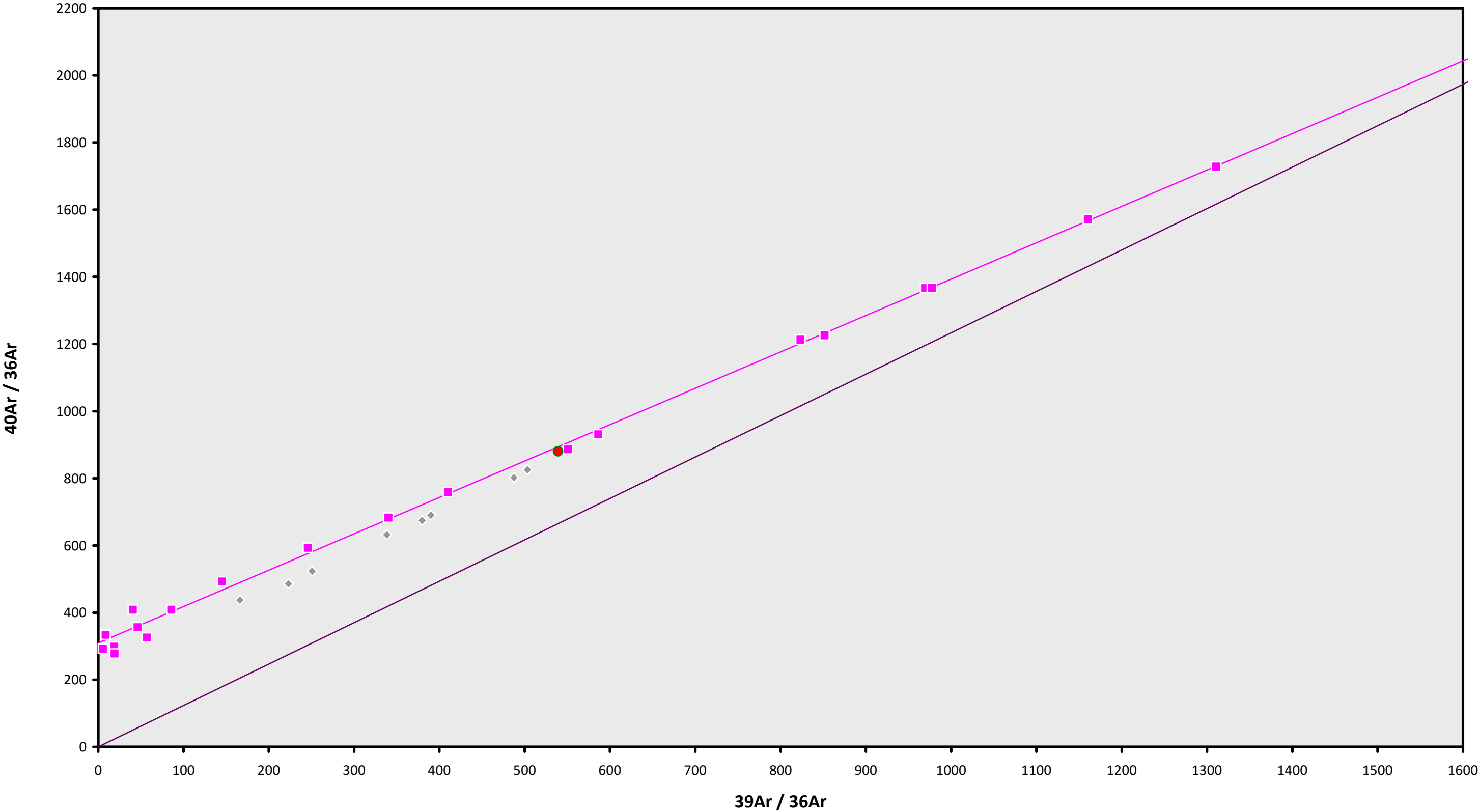
Burns Butte

Dan Miggins

IRR = 20-OSU-04 (4B6-20)

J = $0.00166206 \pm 0.00000080$

20F28573.AGE >>> 108 BRHC 19 >>> OREGON | MCCLAUGHRY (19-20) PROJECT



Ar-Ages in Ma

WEIGHTED PLATEAU

3.29 ± 0.03

TOTAL FUSION

3.21 ± 0.04

NORMAL ISOCHRON

3.29 ± 0.05

INVERSE ISOCHRON

3.29 ± 0.05

MSWD (PROBABILITY)

0.73 (79%)

40AR/36AR INTERCEPT

309.8 ± 12.7

Sample Info

Groundmass

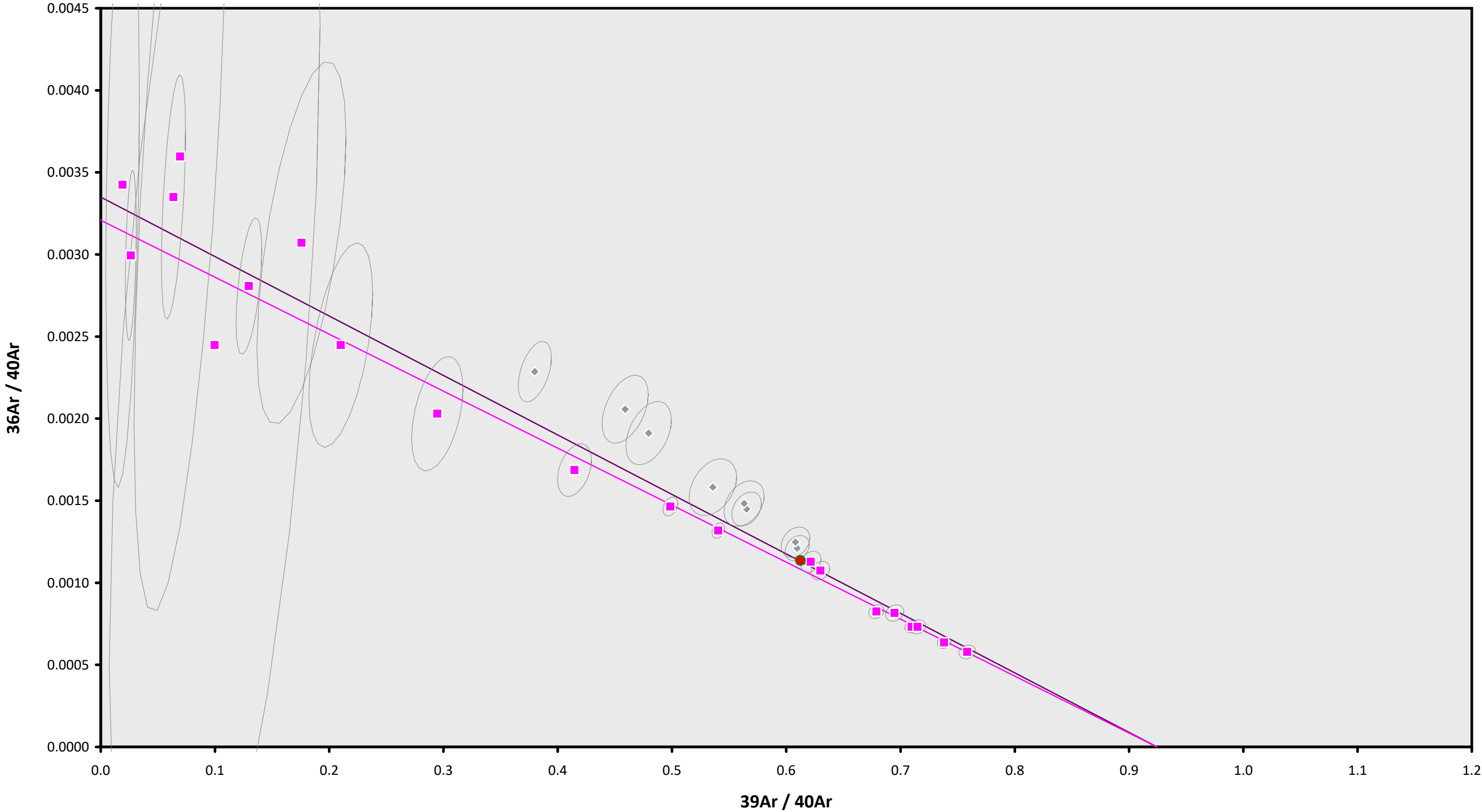
Burns Butte

Dan Miggins

IRR = 20-OSU-04 (4B6-20)

J = $0.00166206 \pm 0.00000080$

20F28573.AGE >>> 108 BRHC 19 >>> OREGON | MCCLAUGHRY (19-20) PROJECT



Ar-Ages in Ma

WEIGHTED PLATEAU

3.29 ± 0.03

TOTAL FUSION

3.21 ± 0.04

NORMAL ISOCHRON

3.29 ± 0.05

INVERSE ISOCHRON

3.29 ± 0.05

MSWD (PROBABILITY)

0.68 (83%)

SPREADING FACTOR

80.0%

40AR/36AR INTERCEPT

311.6 ± 12.7

Sample Info

Groundmass

Burns Butte

Dan Miggins

IRR = 20-OSU-04 (4B6-20)

J = 0.00166206 ± 0.00000080