

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
20F29121	0.5 %		0.0266389	1.239	3.17238	0.493	0.0122701	80.832	0.280361	2.925	7.54965	0.562	0.53087 ± 0.77395	1.61 ± 2.35	1.96	0.54	0.0377 ± 0.0023
20F29123	1.5 %	✓	0.0850084	0.657	31.84278	0.165	0.0570592	19.336	2.161217	0.405	23.80583	0.182	0.46446 ± 0.16259	1.41 ± 0.49	4.18	4.19	0.0289 ± 0.0003
20F29124	2.0 %	✓	0.0514620	0.803	46.83458	0.161	0.0577526	17.686	3.125693	0.285	12.92133	0.333	0.43112 ± 0.08503	1.31 ± 0.26	10.33	6.06	0.0284 ± 0.0002
20F29126	2.5 %	✓	0.0665400	0.650	38.94176	0.162	0.0450906	21.775	2.616825	0.338	17.98902	0.235	0.48765 ± 0.10591	1.48 ± 0.32	7.03	5.07	0.0286 ± 0.0002
20F29127	3.0 %	✓	0.0348985	1.108	39.52775	0.161	0.0415505	24.605	2.678254	0.327	8.44253	0.504	0.45669 ± 0.09313	1.38 ± 0.28	14.35	5.19	0.0289 ± 0.0002
20F29129	3.5 %	✓	0.0372211	0.954	46.03102	0.161	0.0446374	22.924	3.067537	0.280	8.72055	0.492	0.43473 ± 0.07571	1.32 ± 0.23	15.14	5.95	0.0284 ± 0.0002
20F29130	4.0 %	✓	0.0342524	1.199	46.19038	0.160	0.0431431	22.482	3.103553	0.291	7.83111	0.553	0.43283 ± 0.08497	1.31 ± 0.26	16.99	6.02	0.0286 ± 0.0002
20F29132	4.5 %	✓	0.0289539	1.227	35.68688	0.163	0.0325113	31.498	2.434916	0.394	7.05884	0.606	0.53601 ± 0.09523	1.62 ± 0.29	18.32	4.72	0.0291 ± 0.0002
20F29133	5.0 %	✓	0.0288181	1.221	45.40463	0.161	0.0458475	22.801	3.062037	0.290	6.39267	0.675	0.47845 ± 0.07522	1.45 ± 0.23	22.70	5.94	0.0287 ± 0.0002
20F29135	5.7 %	✓	0.0367284	1.118	47.62788	0.159	0.0564684	17.990	3.139053	0.275	8.50026	0.497	0.44280 ± 0.08379	1.34 ± 0.25	16.19	6.08	0.0281 ± 0.0002
20F29136	6.3 %	✓	0.0273084	1.207	44.88392	0.161	0.0452470	23.413	2.964739	0.298	6.25867	0.694	0.58784 ± 0.07368	1.78 ± 0.22	27.58	5.75	0.0281 ± 0.0002
20F29138	7.0 %	✓	0.0340773	1.070	50.16940	0.160	0.0453400	23.620	3.296548	0.277	7.75633	0.554	0.49901 ± 0.07207	1.51 ± 0.22	21.00	6.39	0.0280 ± 0.0002
20F29139	7.8 %	✓	0.0247017	1.445	41.17834	0.161	0.0497621	19.934	2.864238	0.316	5.64948	0.765	0.56241 ± 0.08139	1.70 ± 0.25	28.25	5.55	0.0296 ± 0.0002
20F29141	8.6 %	✓	0.0330460	1.130	47.39554	0.161	0.0380066	27.443	3.395955	0.246	7.77134	0.549	0.51343 ± 0.07126	1.56 ± 0.22	22.23	6.59	0.0305 ± 0.0002
20F29142	9.6 %	✓	0.0249868	1.377	38.78029	0.161	0.0417772	24.214	2.525135	0.358	5.40284	0.792	0.42832 ± 0.08934	1.30 ± 0.27	19.82	4.89	0.0277 ± 0.0002
20F29144	10.6 %	✓	0.0208062	1.614	27.42476	0.164	0.0234038	45.065	1.877535	0.487	4.95116	0.853	0.51149 ± 0.11733	1.55 ± 0.36	19.21	3.64	0.0292 ± 0.0003
20F29145	11.7 %	✓	0.0235386	1.450	38.69198	0.161	0.0214004	50.336	2.669286	0.353	5.34318	0.802	0.54316 ± 0.08394	1.65 ± 0.25	26.88	5.18	0.0294 ± 0.0002
20F29147	12.7 %	✓	0.0180929	1.840	20.23098	0.172	0.0198985	51.707	1.621374	0.539	4.66603	0.911	0.55703 ± 0.13471	1.69 ± 0.41	19.20	3.15	0.0342 ± 0.0004
20F29148	13.7 %	✓	0.0263520	1.398	25.77468	0.167	0.0237028	44.843	2.263352	0.391	7.15234	0.598	0.60681 ± 0.10538	1.84 ± 0.32	19.06	4.40	0.0375 ± 0.0003
20F29150	14.5 %	✓	0.0094296	3.202	9.10873	0.228	0.0096305	114.932	0.765923	1.178	2.62825	1.604	0.72043 ± 0.26254	2.18 ± 0.79	20.83	1.49	0.0359 ± 0.0009
20F29151	15.7 %		0.0080037	3.630	9.61051	0.216	0.0032029	309.013	0.703754	1.246	2.28278	1.879	0.95811 ± 0.27856	2.90 ± 0.84	29.28	1.37	0.0312 ± 0.0008
20F29153	16.7 %		0.0096884	2.930	7.80697	0.248	0.0080385	126.276	0.490507	1.836	2.35250	1.835	0.18472 ± 0.39211	0.56 ± 1.19	3.81	0.95	0.0267 ± 0.0010
20F29154	18.0 %		0.0082405	3.544	7.48652	0.250	0.0117265	86.852	0.463842	1.892	1.89176	2.257	0.07714 ± 0.42315	0.23 ± 1.28	1.87	0.90	0.0264 ± 0.0010
Σ			0.6987939	0.251	749.80267	0.037	0.7613908	6.503	51.571631	0.083	173.31846	0.118					

Information on Analysis and Constants Used in Calculations	
Project = MCCLAUGHRY (19-20)	
Sample = 178 DFWJ 15	
Material = Plagioclase	
Location = Badger Lake	
Region = Eastern Cascades	
Analyst = Dan Miggins	
Irradiation = 20-OSU-04 (4B16-20)	
Position = X: 0 Y: 0 Z/H: 19.94858 mm	
FCT-NM Age = 28.201 ± 0.023 Ma	
FCT-NM Reference = Kuiper et al (2008)	
FCT-NM 40Ar/39Ar Ratio = 9.37737 ± 0.00450	
FCT-NM J-value = 0.00165563 ± 0.00000079	
Air Shot 40Ar/36Ar = 297.3920 ± 0.4312	
Air Shot MDF = 1.00098314 ± 0.00044843 (LIN)	
Experiment Type = Incremental Heating	
Extraction Method = Bulk Laser Heating	
Heating = 64 sec	
Isolation = 1.62 min	
Instrument = ARGUS-VI-F	
Preferred Age = Plateau Age	
Age Classification = Crystallization Age	
IGSN = Undefined	
Rock Class = Undefined	
Lithology = Undefined	
Lat-Lon = Undefined - Undefined	

Results	40(a)/36(a) ± 2σ	40(r)/39(k) ± 2σ	Age ± 2σ (Ma)	MSWD	39Ar(k) (%,n)	K/Ca ± 2σ
Age Plateau						
Error Mean		0.49845 ± 0.02728 ± 5.47%	1.51 ± 0.08 ± 5.47%	1.75 3%	96.24 19	0.0291 ± 0.0008
		Full External Error ± 0.11		1.67	2σ Confidence Limit	
		Analytical Error ± 0.08		1.3218	Error Magnification	
Total Fusion Age		0.49258 ± 0.02215 ± 4.50%	1.49 ± 0.07 ± 4.50%		23	0.0293 ± 0.0001
		Full External Error ± 0.10				
		Analytical Error ± 0.07				
Normal Isochron	296.39 ± 5.50 ± 1.86%	0.51185 ± 0.05185 ± 10.13%	1.55 ± 0.16 ± 10.13%	1.74 3%	96.24 19	
Error Chron		Full External Error ± 0.18		1.69	2σ Confidence Limit	
		Analytical Error ± 0.16		1.3175	Error Magnification	
				7	Number of Iterations	
				0.0000011167	Convergence	
Inverse Isochron	296.21 ± 5.56 ± 1.88%	0.51779 ± 0.05091 ± 9.83%	1.57 ± 0.15 ± 9.83%	1.79 2%	96.24 19	
Error Chron		Full External Error ± 0.17		1.69	2σ Confidence Limit	
		Analytical Error ± 0.15		1.3378	Error Magnification	
				4	Number of Iterations	
				0.0005367536	Convergence	
				21%	Spreading Factor	

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
20F29121	0.5 %		0.0257812	3.17238	0.0034780	0.278322	0.147753	1.61 ± 2.35	1.96	0.54	0.0377 ± 0.0023
20F29123	1.5 %	✓	0.0764009	31.84278	0.0110720	2.140758	0.994295	1.41 ± 0.49	4.18	4.19	0.0289 ± 0.0003
20F29124	2.0 %	✓	0.0388025	46.83458	0.0046226	3.095601	1.334591	1.31 ± 0.26	10.33	6.06	0.0284 ± 0.0002
20F29126	2.5 %	✓	0.0560141	38.94176	0.0000000	2.591805	1.263886	1.48 ± 0.32	7.03	5.07	0.0286 ± 0.0002
20F29127	3.0 %	✓	0.0242142	39.52775	0.0000000	2.652857	1.211538	1.38 ± 0.28	14.35	5.19	0.0289 ± 0.0002
20F29129	3.5 %	✓	0.0247789	46.03102	0.0000000	3.037962	1.320702	1.32 ± 0.23	15.14	5.95	0.0284 ± 0.0002
20F29130	4.0 %	✓	0.0217671	46.19038	0.0000000	3.073876	1.330453	1.31 ± 0.26	16.99	6.02	0.0286 ± 0.0002
20F29132	4.5 %	✓	0.0193077	35.68688	0.0000000	2.411987	1.292854	1.62 ± 0.29	18.32	4.72	0.0291 ± 0.0002
20F29133	5.0 %	✓	0.0165452	45.40463	0.0000000	3.032864	1.451076	1.45 ± 0.23	22.70	5.94	0.0287 ± 0.0002
20F29135	5.7 %	✓	0.0238543	47.62788	0.0058581	3.108452	1.376422	1.34 ± 0.25	16.19	6.08	0.0281 ± 0.0002
20F29136	6.3 %	✓	0.0151763	44.88392	0.0000000	2.935901	1.725853	1.78 ± 0.22	27.58	5.75	0.0281 ± 0.0002
20F29138	7.0 %	✓	0.0205165	50.16940	0.0000000	3.264314	1.628931	1.51 ± 0.22	21.00	6.39	0.0280 ± 0.0002
20F29139	7.8 %	✓	0.0135710	41.17834	0.0055200	2.837781	1.596004	1.70 ± 0.25	28.25	5.55	0.0296 ± 0.0002
20F29141	8.6 %	✓	0.0202350	47.39554	0.0000000	3.365503	1.727946	1.56 ± 0.22	22.23	6.59	0.0305 ± 0.0002
20F29142	9.6 %	✓	0.0145044	38.78029	0.0018675	2.500218	1.070882	1.30 ± 0.27	19.82	4.89	0.0277 ± 0.0002
20F29144	10.6 %	✓	0.0133933	27.42476	0.0000000	1.859915	0.951321	1.55 ± 0.36	19.21	3.64	0.0292 ± 0.0003
20F29145	11.7 %	✓	0.0130802	38.69198	0.0000000	2.644427	1.436356	1.65 ± 0.25	26.88	5.18	0.0294 ± 0.0002
20F29147	12.7 %	✓	0.0126244	20.23098	0.0000000	1.608375	0.895911	1.69 ± 0.41	19.20	3.15	0.0342 ± 0.0004
20F29148	13.7 %	✓	0.0193851	25.77468	0.0000000	2.246792	1.363371	1.84 ± 0.32	19.06	4.40	0.0375 ± 0.0003
20F29150	14.5 %	✓	0.0069675	9.10873	0.0000000	0.760071	0.547581	2.18 ± 0.79	20.83	1.49	0.0359 ± 0.0009
20F29151	15.7 %		0.0054060	9.61051	0.0000000	0.697579	0.668358	2.90 ± 0.84	29.28	1.37	0.0312 ± 0.0008
20F29153	16.7 %		0.0075781	7.80697	0.0000000	0.485491	0.089678	0.56 ± 1.19	3.81	0.95	0.0267 ± 0.0010
20F29154	18.0 %		0.0062167	7.48652	0.0036634	0.459032	0.035412	0.23 ± 1.28	1.87	0.90	0.0264 ± 0.0010
Σ			0.4961206	749.80267	0.0360815	51.089883	25.165669				

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 = 178 DFWJ 15 Material = Plagioclase Location = Badger Lake Region = Eastern Cascades Analyst = Dan Miggins Irradiation = 20-OSU-04 (4B16-20) J = 0.00165563 ± 0.00000079 FCT-NM = 28.201 ± 0.023 Ma	Age Plateau Error Mean	0.49845 ± 0.02728 ± 5.47%	1.51 ± 0.08 ± 5.47% Full External Error ± 0.11 Analytical Error ± 0.08	1.75 3% 1.67 1.3218	96.24 19 2σ Confidence Limit Error Magnification	0.0291 ± 0.0008
	Total Fusion Age	0.49258 ± 0.02215 ± 4.50%	1.49 ± 0.07 ± 4.50% Full External Error ± 0.10 Analytical Error ± 0.07		23	0.0293 ± 0.0001

Normal Isochron			39(k)/36(a) ± 2σ	40(a+r)/36(a) ± 2σ	r.i.
20F29121	0.5 %		10.80 ± 0.69	292.83 ± 8.19	0.3651
20F29123	1.5 %	✓	28.02 ± 0.47	311.57 ± 4.70	0.8471
20F29124	2.0 %	✓	79.78 ± 1.77	332.95 ± 7.45	0.9220
20F29126	2.5 %	✓	46.27 ± 0.78	321.12 ± 5.19	0.8753
20F29127	3.0 %	✓	109.56 ± 3.58	348.59 ± 11.69	0.9341
20F29129	3.5 %	✓	122.60 ± 3.59	351.86 ± 10.69	0.9282
20F29130	4.0 %	✓	141.22 ± 5.41	359.68 ± 14.18	0.9484
20F29132	4.5 %	✓	124.92 ± 4.71	365.52 ± 14.19	0.9287
20F29133	5.0 %	✓	183.31 ± 7.90	386.26 ± 17.29	0.9446
20F29135	5.7 %	✓	130.31 ± 4.56	356.26 ± 12.80	0.9487
20F29136	6.3 %	✓	193.45 ± 8.52	412.28 ± 18.87	0.9439
20F29138	7.0 %	✓	159.11 ± 5.74	377.96 ± 14.12	0.9434
20F29139	7.8 %	✓	209.11 ± 11.11	416.16 ± 22.86	0.9534
20F29141	8.6 %	✓	166.32 ± 6.21	383.95 ± 14.82	0.9501
20F29142	9.6 %	✓	172.38 ± 8.29	372.39 ± 18.67	0.9379
20F29144	10.6 %	✓	138.87 ± 7.11	369.59 ± 19.60	0.9291
20F29145	11.7 %	✓	202.17 ± 10.68	408.37 ± 22.35	0.9473
20F29147	12.7 %	✓	127.40 ± 6.86	369.53 ± 20.63	0.9258
20F29148	13.7 %	✓	115.90 ± 4.50	368.89 ± 14.71	0.9342
20F29150	14.5 %	✓	109.09 ± 9.81	377.15 ± 34.86	0.9045
20F29151	15.7 %		129.04 ± 14.25	422.19 ± 48.08	0.9192
20F29153	16.7 %		64.06 ± 5.36	310.39 ± 25.90	0.8049
20F29154	18.0 %		73.84 ± 7.49	304.26 ± 31.72	0.8349

Results	40(a)/36(a) ± 2σ	40(r)/39(k) ± 2σ	Age ± 2σ (Ma)	MSWD
Normal Isochron	296.39 ± 5.50	0.51185 ± 0.05185	1.55 ± 0.16	1.74
Error Chron	± 1.86%	± 10.13%	± 10.13%	3%
			Full External Error ± 0.18	
			Analytical Error ± 0.16	
Statistics	2σ Confidence Limit	1.69	Convergence	0.000001116701
	Error Magnification	1.3175	Number of Iterations	7
	Number of Data Points	19	Calculated Line	Weighted York-2

Inverse Isochron		39(k)/40(a+r) ± 2σ		36(a)/40(a+r) ± 2σ	r.i.
20F29121	0.5 %		0.0368664 ± 0.0022115	0.00341496 ± 0.00009552	0.0752
20F29123	1.5 %	✓	0.0899307 ± 0.0008050	0.00320951 ± 0.00004838	0.0979
20F29124	2.0 %	✓	0.2396078 ± 0.0021068	0.00300341 ± 0.00006720	0.2249
20F29126	2.5 %	✓	0.1440897 ± 0.0011943	0.00311406 ± 0.00005034	0.1650
20F29127	3.0 %	✓	0.3142853 ± 0.0037870	0.00286866 ± 0.00009623	0.2513
20F29129	3.5 %	✓	0.3484419 ± 0.0039579	0.00284204 ± 0.00008637	0.2811
20F29130	4.0 %	✓	0.3926145 ± 0.0049209	0.00278023 ± 0.00010960	0.2478
20F29132	4.5 %	✓	0.3417682 ± 0.0049524	0.00273583 ± 0.00010621	0.2609
20F29133	5.0 %	✓	0.4745654 ± 0.0069844	0.00258891 ± 0.00011587	0.2768
20F29135	5.7 %	✓	0.3657701 ± 0.0041646	0.00280693 ± 0.00010082	0.2416
20F29136	6.3 %	✓	0.4692273 ± 0.0071007	0.00242553 ± 0.00011101	0.2782
20F29138	7.0 %	✓	0.4209655 ± 0.0052262	0.00264581 ± 0.00009881	0.2651
20F29139	7.8 %	✓	0.5024613 ± 0.0083342	0.00240290 ± 0.00013199	0.2574
20F29141	8.6 %	✓	0.4331800 ± 0.0052233	0.00260448 ± 0.00010056	0.2592
20F29142	9.6 %	✓	0.4628902 ± 0.0080659	0.00268535 ± 0.00013463	0.2876
20F29144	10.6 %	✓	0.3757381 ± 0.0074029	0.00270570 ± 0.00014352	0.2787
20F29145	11.7 %	✓	0.4950646 ± 0.0086916	0.00244875 ± 0.00013402	0.2680
20F29147	12.7 %	✓	0.3447707 ± 0.0073139	0.00270617 ± 0.00015108	0.2804
20F29148	13.7 %	✓	0.3141936 ± 0.0044989	0.00271083 ± 0.00010810	0.2505
20F29150	14.5 %	✓	0.2892437 ± 0.0115467	0.00265146 ± 0.00024510	0.2790
20F29151	15.7 %		0.3056395 ± 0.0138169	0.00236858 ± 0.00026975	0.2743
20F29153	16.7 %		0.2063982 ± 0.0107694	0.00322171 ± 0.00026885	0.3093
20F29154	18.0 %		0.2426838 ± 0.0143586	0.00328670 ± 0.00034265	0.3304

Results	40(a)/36(a) ± 2σ		40(r)/39(k) ± 2σ	Age ± 2σ (Ma)	MSWD
Inverse Isochron	296.21 ± 5.56		0.51779 ± 0.05091	1.57 ± 0.15	1.79
Error Chron	± 1.88%		± 9.83%	± 9.83%	2%
			Full External Error ± 0.17		
			Analytical Error ± 0.15		
Statistics	2σ Confidence Limit	1.69	Convergence	0.0005367536	
	Error Magnification	1.3378	Number of Iterations	4	
	Number of Data Points	19	Calculated Line	Weighted York-2	
	Spreading Factor	21.4%			

Degassing Patterns		36Ar(a)		36Ar(c)		36Ar(ca)		36Ar(cl)		37Ar(ca)		38Ar(a)		38Ar(c)		38Ar(k)		38Ar(ca)		38Ar(cl)		39Ar(k)		39Ar(ca)		40Ar(r)		40Ar(a)		40Ar(c)		40Ar(k)		
		[fA]	%1σ	[fA]	%1σ	[fA]	%1σ	[fA]	%1σ	[fA]	%1σ	[fA]	%1σ	[fA]	%1σ	[fA]	%1σ	[fA]	%1σ	[fA]	%1σ	[fA]	%1σ	[fA]	%1σ	[fA]	%1σ	[fA]	%1σ	[fA]	%1σ			
20F29121	0.5 %		0.0257812	1.28	0.0000000	0.00	0.0008575	0.52	0.0000002	285.19	3.17238	0.49	0.0048598	1.29	0.0000000	0.00	0.0033613	2.95	0.0005710	9.64	0.0034780	285.20	0.278322	2.95	0.0020383	1.04	0.147753	72.83	7.69724	1.29	0.0000000	0.00	0.0001689	10.09
20F29123	1.5 %	✓	0.0764009	0.73	0.0000000	0.00	0.0086071	0.24	0.0000005	99.79	31.84278	0.16	0.0144016	0.75	0.0000000	0.00	0.0258539	0.42	0.0057317	9.63	0.0110720	99.79	2.140758	0.41	0.0204590	0.93	0.994295	17.50	22.81024	0.74	0.0000000	0.00	0.0012994	9.66
20F29124	2.0 %	✓	0.0388025	1.07	0.0000000	0.00	0.0126594	0.23	0.0000002	221.70	46.83458	0.16	0.0073143	1.08	0.0000000	0.00	0.0373856	0.30	0.0084302	9.63	0.0046226	221.70	3.095601	0.29	0.0300912	0.93	1.334591	9.86	11.58486	1.07	0.0000000	0.00	0.0018790	9.65
20F29126	2.5 %	✓	0.0560141	0.77	0.0000000	0.00	0.0105260	0.23	0.0000000	0.00	38.94176	0.16	0.0105587	0.79	0.0000000	0.00	0.0313012	0.35	0.0070095	9.63	0.0000000	0.00	2.591805	0.34	0.0250201	0.93	1.263886	10.85	16.72356	0.78	0.0000000	0.00	0.0015732	9.66
20F29127	3.0 %	✓	0.0242142	1.60	0.0000000	0.00	0.0106844	0.23	0.0000000	0.00	39.52775	0.16	0.0045644	1.61	0.0000000	0.00	0.0320386	0.34	0.0071150	9.63	0.0000000	0.00	2.652857	0.33	0.0253966	0.93	1.211538	10.19	7.22938	1.60	0.0000000	0.00	0.0016103	9.66
20F29129	3.5 %	✓	0.0247789	1.44	0.0000000	0.00	0.0124422	0.23	0.0000000	0.00	46.03102	0.16	0.0046708	1.45	0.0000000	0.00	0.0366895	0.30	0.0082856	9.63	0.0000000	0.00	3.037962	0.28	0.0295749	0.93	1.320702	8.70	7.39800	1.44	0.0000000	0.00	0.0018440	9.65
20F29130	4.0 %	✓	0.0217671	1.89	0.0000000	0.00	0.0124853	0.23	0.0000000	0.00	46.19038	0.16	0.0041031	1.90	0.0000000	0.00	0.0371232	0.31	0.0083143	9.63	0.0000000	0.00	3.073876	0.29	0.0296773	0.93	1.330453	9.81	6.49879	1.89	0.0000000	0.00	0.0018658	9.65
20F29132	4.5 %	✓	0.0193077	1.84	0.0000000	0.00	0.0096462	0.24	0.0000000	0.00	35.68688	0.16	0.0036395	1.85	0.0000000	0.00	0.0291296	0.41	0.0064236	9.63	0.0000000	0.00	2.411987	0.40	0.0229288	0.93	1.292854	8.87	5.76452	1.85	0.0000000	0.00	0.0014641	9.66
20F29133	5.0 %	✓	0.0165452	2.13	0.0000000	0.00	0.0122729	0.23	0.0000000	0.00	45.40463	0.16	0.0031188	2.14	0.0000000	0.00	0.0366279	0.31	0.0081728	9.63	0.0000000	0.00	3.032864	0.29	0.0291725	0.93	1.451076	7.86	4.93975	2.14	0.0000000	0.00	0.0018409	9.65
20F29135	5.7 %	✓	0.0238543	1.73	0.0000000	0.00	0.0128738	0.23	0.0000003	174.02	47.62788	0.16	0.0044965	1.73	0.0000000	0.00	0.0375408	0.29	0.0085730	9.63	0.0058581	174.02	3.108452	0.28	0.0306009	0.93	1.376422	9.46	7.12195	1.73	0.0000000	0.00	0.0018868	9.65
20F29136	6.3 %	✓	0.0151763	2.18	0.0000000	0.00	0.0121321	0.23	0.0000000	0.00	44.88392	0.16	0.0028607	2.19	0.0000000	0.00	0.0354569	0.31	0.0080791	9.63	0.0000000	0.00	2.935901	0.30	0.0288379	0.93	1.725853	6.26	4.53103	2.18	0.0000000	0.00	0.0017821	9.65
20F29138	7.0 %	✓	0.0205165	1.78	0.0000000	0.00	0.0135608	0.23	0.0000000	0.00	50.16940	0.16	0.0038674	1.79	0.0000000	0.00	0.0394231	0.29	0.0090305	9.63	0.0000000	0.00	3.264314	0.28	0.0322338	0.93	1.628931	7.22	6.12542	1.79	0.0000000	0.00	0.0019814	9.65
20F29139	7.8 %	✓	0.0135710	2.64	0.0000000	0.00	0.0111305	0.23	0.0000002	180.20	41.17834	0.16	0.0025581	2.64	0.0000000	0.00	0.0342719	0.33	0.0074121	9.63	0.0055200	180.20	2.837781	0.32	0.0264571	0.93	1.596004	7.23	4.05176	2.64	0.0000000	0.00	0.0017225	9.66
20F29141	8.6 %	✓	0.0202350	1.85	0.0000000	0.00	0.0128110	0.23	0.0000000	0.00	47.39554	0.16	0.0038143	1.86	0.0000000	0.00	0.0406452	0.26	0.0085312	9.63	0.0000000	0.00	3.365503	0.25	0.0304516	0.93	1.727946	6.94	6.04135	1.85	0.0000000	0.00	0.0020429	9.65
20F29142	9.6 %	✓	0.0145044	2.38	0.0000000	0.00	0.0104823	0.23	0.0000001	542.94	38.78029	0.16	0.0027341	2.38	0.0000000	0.00	0.0301951	0.37	0.0069805	9.63	0.0018675	542.94	2.500218	0.36	0.0249163	0.93	1.070882	10.42	4.33044	2.38	0.0000000	0.00	0.0015176	9.66
20F29144	10.6 %	✓	0.0133933	2.51	0.0000000	0.00	0.0074129	0.24	0.0000000	0.00	27.42476	0.16	0.0025246	2.52	0.0000000	0.00	0.0224622	0.50	0.0049365	9.63	0.0000000	0.00	1.859915	0.49	0.0176204	0.93	0.951321	11.46	3.99871	2.51	0.0000000	0.00	0.0011290	9.66
20F29145	11.7 %	✓	0.0130802	2.62	0.0000000	0.00	0.0104584	0.23	0.0000000	0.00	38.69198	0.16	0.0024656	2.62	0.0000000	0.00	0.0319367	0.37	0.0069646	9.63	0.0000000	0.00	2.644427	0.36	0.0248596	0.93	1.436356	7.72	3.90522	2.62	0.0000000	0.00	0.0016052	9.66
20F29147	12.7 %	✓	0.0126244	2.64	0.0000000	0.00	0.0054684	0.24	0.0000000	0.00	20.23098	0.17	0.0023797	2.64	0.0000000	0.00	0.0194244	0.55	0.0036416	9.63	0.0000000	0.00	1.608375	0.54	0.0129984	0.94	0.895911	12.08	3.76915	2.64	0.0000000	0.00	0.0009763	9.67
20F29148	13.7 %	✓	0.0193851	1.90	0.0000000	0.00	0.0069669	0.24	0.0000000	0.00	25.77468	0.17	0.0036541	1.91	0.0000000	0.00	0.0271345	0.40	0.0046394	9.63	0.0000000	0.00	2.246792	0.39	0.0165602	0.93	1.363371	8.67	5.78761	1.91	0.0000000	0.00	0.0013638	9.66
20F29150	14.5 %	✓	0.0069675	4.33	0.0000000	0.00	0.0024621	0.28	0.0000000	0.00	9.10873	0.23	0.0013134	4.34	0.0000000	0.00	0.0091794	1.19	0.0016396	9.63	0.0000000	0.00	0.760071	1.19	0.0058524	0.95	0.547581	18.18	2.08021	4.34	0.0000000	0.00	0.0004614	9.72
20F29151	15.7 %		0.0054060	5.38	0.0000000	0.00	0.0025977	0.27	0.0000000	0.00	9.61051	0.22	0.0010190	5.38	0.0000000	0.00	0.0084247	1.26	0.0017299	9.63	0.0000000	0.00	0.697579	1.26	0.0061748	0.94	0.668358	14.48	1.61400	5.38	0.0000000	0.00	0.0004234	9.73
20F29153	16.7 %		0.0075781	3.75	0.0000000	0.00	0.0021102	0.30	0.0000000	0.00	7.80697	0.25	0.0014285	3.75	0.0000000	0.00	0.0058633	1.86	0.0014053	9.63	0.0000000	0.00	0.485491	1.85	0.0050160	0.95	0.089678	106.12	2.26253	3.75	0.0000000	0.00	0.0002947	9.83
20F29154	18.0 %		0.0062167	4.70	0.0000000	0.00	0.0020236	0.30	0.0000002	278.06	7.48652	0.25	0.0011719	4.70	0.0000000	0.00	0.0055437	1.91	0.0013476	9.63	0.0036634	278.06	0.459032	1.91	0.0048101	0.95	0.035412	274.25	1.85607	4.70	0.0000000	0.00	0.0002786	9.84
Σ			0.4961206	0.35	0.0000000	0.00	0.2026717	0.05	0.0000016	75.17	749.80267	0.04	0.0935187	0.36	0.0000000	0.00	0.6170125	0.09	0.1349645	2.22	0.0360815	75.13	51.089883	0.08	0.4817482	0.21	25.165669	2.25	148.12178	0.36	0.0000000	0.00	0.0310116	2.20
Σ								0.6987939	0.25	749.80267	0.04							0.8815772	3.09			51.571631	0.08							173.31846	0.45			

Additional Parameters			40Ar/39Ar	1σ	37Ar/39Ar	1σ	36Ar/39Ar	1σ	Time (days)	37Ar (decay)	39Ar (decay)	40Ar (moles)
20F29121	0.5 %		26.928373	0.802004	11.315352	0.335620	0.095016	0.003018	27.111	1.712521	1.00019220	2.673E-13
20F29123	1.5 %	✓	11.015012	0.048899	14.733722	0.064418	0.039334	0.000304	27.123	1.712921	1.00019228	8.427E-13
20F29124	2.0 %	✓	4.133909	0.018094	14.983744	0.048967	0.016464	0.000140	27.129	1.713132	1.00019232	4.574E-13
20F29126	2.5 %	✓	6.874367	0.028298	14.881297	0.055750	0.025428	0.000186	27.141	1.713532	1.00019241	6.368E-13
20F29127	3.0 %	✓	3.152252	0.018933	14.758778	0.053793	0.013030	0.000150	27.147	1.713743	1.00019245	2.989E-13
20F29129	3.5 %	✓	2.842850	0.016102	15.005859	0.048451	0.012134	0.000121	27.159	1.714143	1.00019253	3.087E-13
20F29130	4.0 %	✓	2.523273	0.015775	14.883064	0.049471	0.011037	0.000136	27.165	1.714354	1.00019258	2.772E-13
20F29132	4.5 %	✓	2.899008	0.020940	14.656312	0.062434	0.011891	0.000153	27.177	1.714754	1.00019266	2.499E-13
20F29133	5.0 %	✓	2.087717	0.015335	14.828244	0.049161	0.009411	0.000118	27.183	1.714966	1.00019271	2.263E-13
20F29135	5.7 %	✓	2.707907	0.015376	15.172690	0.048210	0.011700	0.000135	27.195	1.715366	1.00019279	3.009E-13
20F29136	6.3 %	✓	2.111035	0.015943	15.139250	0.051276	0.009211	0.000115	27.201	1.715578	1.00019283	2.216E-13
20F29138	7.0 %	✓	2.352865	0.014572	15.218771	0.048613	0.010337	0.000114	27.213	1.715978	1.00019292	2.746E-13
20F29139	7.8 %	✓	1.972421	0.016331	14.376717	0.050958	0.008624	0.000128	27.219	1.716190	1.00019296	2.000E-13
20F29141	8.6 %	✓	2.288410	0.013771	13.956470	0.041093	0.009731	0.000113	27.231	1.716590	1.00019304	2.751E-13
20F29142	9.6 %	✓	2.139624	0.018605	15.357710	0.060361	0.009895	0.000141	27.237	1.716802	1.00019309	1.913E-13
20F29144	10.6 %	✓	2.637053	0.025912	14.606785	0.075116	0.011082	0.000187	27.249	1.717202	1.00019317	1.753E-13
20F29145	11.7 %	✓	2.001727	0.017539	14.495253	0.056227	0.008818	0.000132	27.256	1.717414	1.00019322	1.891E-13
20F29147	12.7 %	✓	2.877827	0.030455	12.477678	0.070525	0.011159	0.000214	27.267	1.717815	1.00019330	1.652E-13
20F29148	13.7 %	✓	3.160066	0.022570	11.387837	0.048380	0.011643	0.000169	27.274	1.718027	1.00019334	2.532E-13
20F29150	14.5 %	✓	3.431477	0.068300	11.892489	0.142734	0.012311	0.000420	27.285	1.718427	1.00019343	9.304E-14
20F29151	15.7 %		3.243723	0.073110	13.656074	0.172624	0.011373	0.000436	27.291	1.718616	1.00019347	8.081E-14
20F29153	16.7 %		4.796059	0.124470	15.916132	0.294804	0.019752	0.000683	27.303	1.719040	1.00019355	8.328E-14
20F29154	18.0 %		4.078457	0.120121	16.140254	0.308099	0.017766	0.000714	27.309	1.719229	1.00019359	6.697E-14

Procedure Blanks		36Ar ± 1σ (SE) [fA]	37Ar ± 1σ (SE) [fA]	38Ar ± 1σ (SE) [fA]	39Ar ± 1σ (SE) [fA]	40Ar ± 1σ (SE) [fA]
20F29121	0.5 %	0.0047149 ± 0.0001855	0.0207264 ± 0.0056231	0.0107976 ± 0.0074229	0.0077291 ± 0.0060588	1.1729377 ± 0.0398779
20F29123	1.5 %	0.0048711 ± 0.0001855	0.0177732 ± 0.0056231	0.0091981 ± 0.0074229	0.0079121 ± 0.0060588	1.1671961 ± 0.0398779
20F29124	2.0 %	0.0049112 ± 0.0001855	0.0168893 ± 0.0056231	0.0089103 ± 0.0074229	0.0081736 ± 0.0060588	1.1632502 ± 0.0398779
20F29126	2.5 %	0.0049294 ± 0.0001855	0.0161442 ± 0.0056231	0.0090980 ± 0.0074229	0.0088666 ± 0.0060588	1.1546248 ± 0.0398779
20F29127	3.0 %	0.0049174 ± 0.0001855	0.0161018 ± 0.0056231	0.0094606 ± 0.0074229	0.0092954 ± 0.0060588	1.1496400 ± 0.0398779
20F29129	3.5 %	0.0048715 ± 0.0001855	0.0164085 ± 0.0056231	0.0103909 ± 0.0074229	0.0101332 ± 0.0060588	1.1398321 ± 0.0398779
20F29130	4.0 %	0.0048412 ± 0.0001855	0.0166732 ± 0.0056231	0.0109207 ± 0.0074229	0.0105578 ± 0.0060588	1.1345734 ± 0.0398779
20F29132	4.5 %	0.0047846 ± 0.0001855	0.0171695 ± 0.0056231	0.0118126 ± 0.0074229	0.0112573 ± 0.0060588	1.1247720 ± 0.0398779
20F29133	5.0 %	0.0047590 ± 0.0001855	0.0173628 ± 0.0056231	0.0121658 ± 0.0074229	0.0115495 ± 0.0060588	1.1197332 ± 0.0398779
20F29135	5.7 %	0.0047252 ± 0.0001855	0.0174806 ± 0.0056231	0.0125019 ± 0.0074229	0.0119097 ± 0.0060588	1.1106149 ± 0.0398779
20F29136	6.3 %	0.0047166 ± 0.0001855	0.0173795 ± 0.0056231	0.0124745 ± 0.0074229	0.0119849 ± 0.0060588	1.1060184 ± 0.0398779
20F29138	7.0 %	0.0047187 ± 0.0001855	0.0168448 ± 0.0056231	0.0120011 ± 0.0074229	0.0118869 ± 0.0060588	1.0977472 ± 0.0398779
20F29139	7.8 %	0.0047287 ± 0.0001855	0.0163822 ± 0.0056231	0.0115284 ± 0.0074229	0.0117037 ± 0.0060588	1.0935444 ± 0.0398779
20F29141	8.6 %	0.0047597 ± 0.0001855	0.0152154 ± 0.0056231	0.0102554 ± 0.0074229	0.0111108 ± 0.0060588	1.0857719 ± 0.0398779
20F29142	9.6 %	0.0047792 ± 0.0001855	0.0144798 ± 0.0056231	0.0094127 ± 0.0074229	0.0106715 ± 0.0060588	1.0816426 ± 0.0398779
20F29144	10.6 %	0.0048119 ± 0.0001855	0.0129950 ± 0.0056231	0.0076136 ± 0.0074229	0.0096287 ± 0.0060588	1.0735080 ± 0.0398779
20F29145	11.7 %	0.0048212 ± 0.0001855	0.0122307 ± 0.0056231	0.0066153 ± 0.0074229	0.0089790 ± 0.0060588	1.0688609 ± 0.0398779
20F29147	12.7 %	0.0048081 ± 0.0001855	0.0110365 ± 0.0056231	0.0048275 ± 0.0074229	0.0076137 ± 0.0060588	1.0589909 ± 0.0398779
20F29148	13.7 %	0.0047768 ± 0.0001855	0.0106435 ± 0.0056231	0.0040278 ± 0.0074229	0.0068427 ± 0.0060588	1.0529633 ± 0.0398779
20F29150	14.5 %	0.0046502 ± 0.0001855	0.0106425 ± 0.0056231	0.0030520 ± 0.0074229	0.0053643 ± 0.0060588	1.0394721 ± 0.0398779
20F29151	15.7 %	0.0045514 ± 0.0001855	0.0110951 ± 0.0056231	0.0029394 ± 0.0074229	0.0046872 ± 0.0060588	1.0319345 ± 0.0398779
20F29153	16.7 %	0.0042092 ± 0.0001855	0.0135653 ± 0.0056231	0.0038454 ± 0.0074229	0.0033044 ± 0.0060588	1.0114196 ± 0.0398779
20F29154	18.0 %	0.0039926 ± 0.0001855	0.0154607 ± 0.0056231	0.0048992 ± 0.0074229	0.0027904 ± 0.0060588	1.0004244 ± 0.0398779

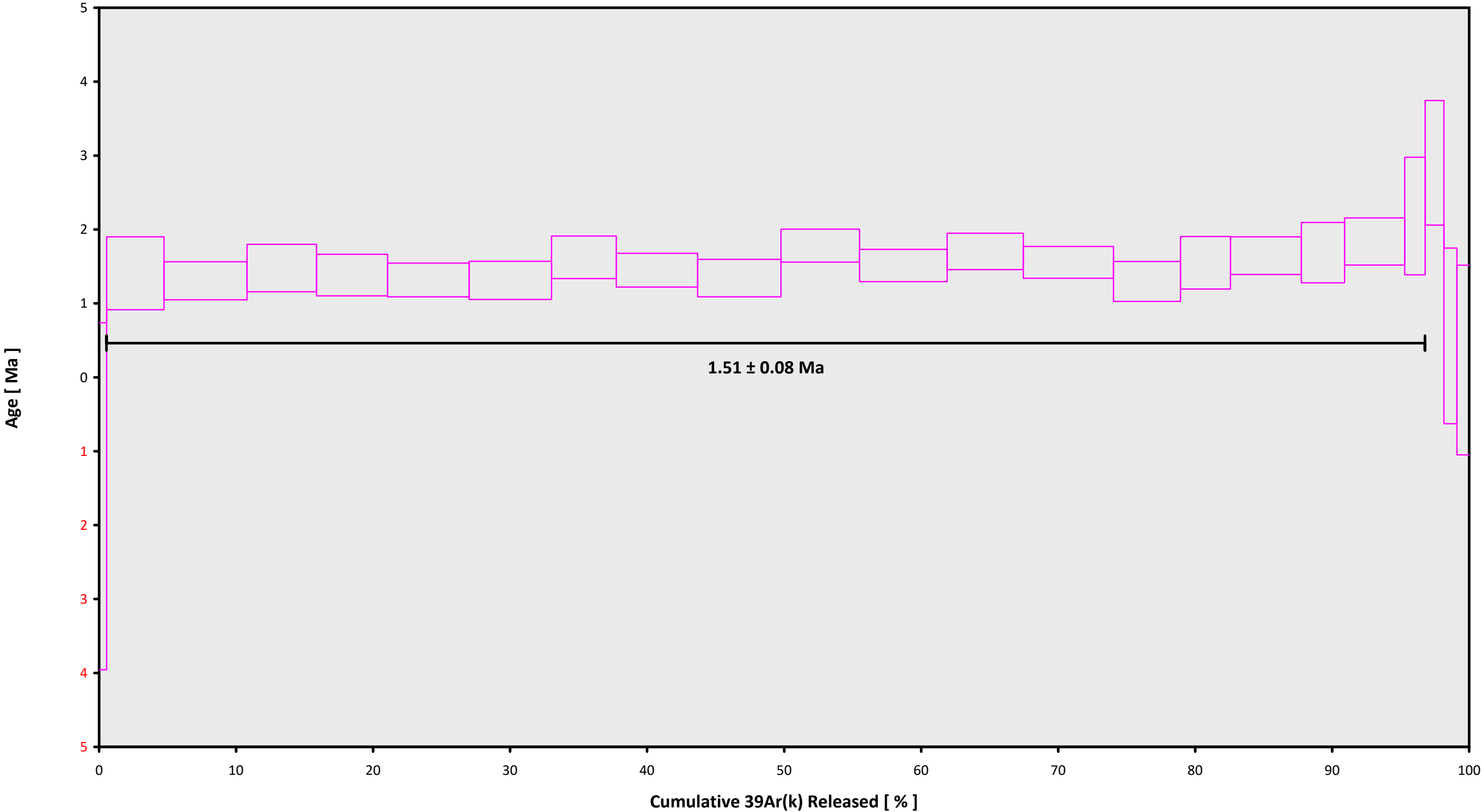
Intercept Values		36Ar ± 1σ (SE) [fA]	r2	Regression (type,n)	37Ar ± 1σ (SE) [fA]	r2	Regression (type,n)	38Ar ± 1σ (SE) [fA]	r2	Regression (type,n)	39Ar ± 1σ (SE) [fA]	r2	Regression (type,n)	40Ar ± 1σ (SE) [fA]	r2	Regression (type,n)
20F29121	0.5 %	0.0300244 ± 0.0002489	0.6296	EXP 150 of 150	1.8371899 ± 0.0066288	0.8923	EXP 150 of 150	0.0014966 ± 0.0066073	0.0003	EXP 149 of 150	0.2883108 ± 0.0055339	0.0554	EXP 150 of 150	8.7225903 ± 0.0144078	0.9962	EXP 150 of 150
20F29123	1.5 %	0.0856372 ± 0.0004758	0.1493	EXP 150 of 150	18.6267319 ± 0.0089853	0.9979	EXP 150 of 150	0.0479732 ± 0.0081914	0.0133	EXP 150 of 150	2.1708342 ± 0.0062536	0.8826	EXP 149 of 150	24.9730303 ± 0.0167508	0.9678	EXP 149 of 150
20F29124	2.0 %	0.0538050 ± 0.0003351	0.1096	EXP 145 of 150	27.4021943 ± 0.0106264	0.9986	EXP 150 of 150	0.0489559 ± 0.0070453	0.0149	EXP 150 of 150	3.1363316 ± 0.0063724	0.9498	EXP 150 of 150	14.0845797 ± 0.0159929	0.9932	EXP 148 of 150
20F29126	2.5 %	0.0681488 ± 0.0003489	0.0350	EXP 146 of 150	22.7768090 ± 0.0093774	0.9985	EXP 149 of 150	0.0360813 ± 0.0064564	0.0000	EXP 148 of 150	2.6277558 ± 0.0063425	0.9296	EXP 150 of 150	19.1436430 ± 0.0140906	0.9870	EXP 147 of 150
20F29127	3.0 %	0.0380743 ± 0.0003114	0.4894	EXP 150 of 150	23.1169829 ± 0.0089001	0.9987	EXP 149 of 150	0.0321716 ± 0.0070588	0.0018	EXP 149 of 150	2.6896612 ± 0.0062175	0.9318	EXP 150 of 150	9.5921711 ± 0.0148000	0.9953	EXP 147 of 150
20F29129	3.5 %	0.0402351 ± 0.0002745	0.4190	EXP 148 of 150	26.9163479 ± 0.0107537	0.9985	EXP 150 of 150	0.0343343 ± 0.0070724	0.0002	EXP 150 of 150	3.0800888 ± 0.0059366	0.9559	EXP 145 of 150	9.8603799 ± 0.0159318	0.9939	EXP 150 of 150
20F29130	4.0 %	0.0373842 ± 0.0003384	0.2911	EXP 150 of 150	27.0059860 ± 0.0097477	0.9989	EXP 149 of 150	0.0323072 ± 0.0062731	0.0002	EXP 149 of 150	3.1165579 ± 0.0065758	0.9472	EXP 148 of 150	8.9656847 ± 0.0169177	0.9935	EXP 149 of 150
20F29132	4.5 %	0.0322936 ± 0.0002778	0.5663	EXP 150 of 150	20.8557836 ± 0.0088920	0.9983	EXP 150 of 150	0.0207626 ± 0.0070837	0.0003	EXP 150 of 150	2.4480926 ± 0.0073598	0.8940	EXP 150 of 150	8.1836112 ± 0.0153911	0.9944	EXP 150 of 150
20F29133	5.0 %	0.0321389 ± 0.0002737	0.6161	EXP 149 of 150	26.5361390 ± 0.0103765	0.9986	EXP 150 of 150	0.0337718 ± 0.0073895	0.0001	EXP 148 of 150	3.0760004 ± 0.0063519	0.9503	EXP 149 of 150	7.5123988 ± 0.0164655	0.9942	EXP 149 of 150
20F29135	5.7 %	0.0396207 ± 0.0003375	0.3020	EXP 149 of 150	27.8297260 ± 0.0093153	0.9990	EXP 149 of 150	0.0440775 ± 0.0069646	0.0145	EXP 150 of 150	3.1534372 ± 0.0059892	0.9566	EXP 150 of 150	9.6108774 ± 0.0139091	0.9947	EXP 150 of 150
20F29136	6.3 %	0.0306621 ± 0.0002482	0.6883	EXP 148 of 150	26.2222439 ± 0.0100204	0.9987	EXP 150 of 150	0.0328615 ± 0.0075870	0.0007	EXP 150 of 150	2.9790606 ± 0.0063083	0.9483	EXP 150 of 150	7.3646847 ± 0.0171967	0.9934	EXP 150 of 150
20F29138	7.0 %	0.0370954 ± 0.0002866	0.5101	EXP 149 of 150	29.3058896 ± 0.0105055	0.9988	EXP 150 of 150	0.0334281 ± 0.0077484	0.0003	EXP 149 of 150	3.3110328 ± 0.0066602	0.9539	EXP 150 of 150	8.8540788 ± 0.0160346	0.9931	EXP 150 of 150
20F29139	7.8 %	0.0281977 ± 0.0002809	0.5866	EXP 150 of 150	24.0483342 ± 0.0096932	0.9985	EXP 150 of 150	0.0383315 ± 0.0066096	0.0149	EXP 150 of 150	2.8781992 ± 0.0065919	0.9394	EXP 150 of 150	6.7430268 ± 0.0167286	0.9937	EXP 150 of 150
20F29141	8.6 %	0.0361565 ± 0.0002970	0.4059	EXP 150 of 150	27.6763889 ± 0.0113156	0.9985	EXP 150 of 150	0.0278259 ± 0.0073563	0.0015	EXP 148 of 150	3.4097417 ± 0.0055763	0.9700	EXP 150 of 150	8.8571098 ± 0.0151768	0.9935	EXP 150 of 150
20F29142	9.6 %	0.0285191 ± 0.0002658	0.5851	EXP 150 of 150	22.6407285 ± 0.0089185	0.9986	EXP 150 of 150	0.0324466 ± 0.0069014	0.0131	EXP 146 of 150	2.5377961 ± 0.0066344	0.9206	EXP 150 of 150	6.4844810 ± 0.0155550	0.9944	EXP 149 of 150
20F29144	10.6 %	0.0245798 ± 0.0002572	0.6667	EXP 150 of 150	16.0046454 ± 0.0066410	0.9984	EXP 147 of 150	0.0158362 ± 0.0075217	0.0003	EXP 145 of 150	1.8886435 ± 0.0068169	0.8433	EXP 150 of 150	6.0246680 ± 0.0139350	0.9956	EXP 146 of 150
20F29145	11.7 %	0.0271852 ± 0.0002630	0.6692	EXP 150 of 150	22.5833287 ± 0.0087542	0.9987	EXP 150 of 150	0.0148272 ± 0.0078356	0.0109	EXP 150 of 150	2.6803683 ± 0.0071174	0.9183	EXP 150 of 150	6.4120445 ± 0.0156977	0.9942	EXP 150 of 150
20F29147	12.7 %	0.0219980 ± 0.0002543	0.6858	EXP 150 of 150	11.8008104 ± 0.0067502	0.9971	EXP 148 of 150	0.0151102 ± 0.0071538	0.0092	EXP 148 of 150	1.6302649 ± 0.0062548	0.8147	EXP 150 of 150	5.7250249 ± 0.0147213	0.9947	EXP 150 of 150
20F29148	13.7 %	0.0298136 ± 0.0002934	0.5036	EXP 150 of 150	15.0360326 ± 0.0074648	0.9977	EXP 150 of 150	0.0197216 ± 0.0076369	0.0005	EXP 150 of 150	2.2719775 ± 0.0063728	0.9080	EXP 150 of 150	8.2053056 ± 0.0154329	0.9927	EXP 150 of 150
20F29150	14.5 %	0.0136091 ± 0.0002182	0.8161	EXP 149 of 150	5.3055898 ± 0.0069397	0.9846	EXP 150 of 150	0.0065975 ± 0.0082399	0.0025	EXP 150 of 150	0.7718907 ± 0.0066893	0.3010	EXP 149 of 150	3.6677202 ± 0.0136875	0.9961	EXP 146 of 150
20F29151	15.7 %	0.0121557 ± 0.0002039	0.8400	EXP 150 of 150	5.5973797 ± 0.0063046	0.9883	EXP 149 of 150	0.0002699 ± 0.0065761	0.0001	EXP 146 of 150	0.7089951 ± 0.0063358	0.2247	EXP 150 of 150	3.3147162 ± 0.0157686	0.9948	EXP 150 of 150
20F29153	16.7 %	0.0134140 ± 0.0001952	0.8351	EXP 149 of 150	4.5412807 ± 0.0068294	0.9789	EXP 150 of 150	0.0118997 ± 0.0069529	0.0132	EXP 146 of 150	0.4941975 ± 0.0066656	0.0436	EXP 150 of 150	3.3639195 ± 0.0165144	0.9942	EXP 149 of 150
20F29154	18.0 %	0.0118218 ± 0.0002059	0.8381	EXP 148 of 150	4.3519462 ± 0.0065110	0.9799	EXP 149 of 150	0.0068504 ± 0.0070027	0.0033	EXP 149 of 150	0.4669974 ± 0.0063574	0.0106	EXP 150 of 150	2.8921831 ± 0.0152495	0.9953	EXP 150 of 150

Project Info		Analyst	Irradiation	X-pos	Y-pos	Z/H-pos	Project	Experiment	Nmb
20F29121	0.5 %	Dan Miggins	20-OSU-04	0.00	0.00	19.95	Oregon\McClaughry (19-20)	20F29117	01
20F29123	1.5 %	Dan Miggins	20-OSU-04	0.00	0.00	19.95	Oregon\McClaughry (19-20)	20F29117	01
20F29124	2.0 %	Dan Miggins	20-OSU-04	0.00	0.00	19.95	Oregon\McClaughry (19-20)	20F29117	01
20F29126	2.5 %	Dan Miggins	20-OSU-04	0.00	0.00	19.95	Oregon\McClaughry (19-20)	20F29117	01
20F29127	3.0 %	Dan Miggins	20-OSU-04	0.00	0.00	19.95	Oregon\McClaughry (19-20)	20F29117	01
20F29129	3.5 %	Dan Miggins	20-OSU-04	0.00	0.00	19.95	Oregon\McClaughry (19-20)	20F29117	01
20F29130	4.0 %	Dan Miggins	20-OSU-04	0.00	0.00	19.95	Oregon\McClaughry (19-20)	20F29117	01
20F29132	4.5 %	Dan Miggins	20-OSU-04	0.00	0.00	19.95	Oregon\McClaughry (19-20)	20F29117	01
20F29133	5.0 %	Dan Miggins	20-OSU-04	0.00	0.00	19.95	Oregon\McClaughry (19-20)	20F29117	01
20F29135	5.7 %	Dan Miggins	20-OSU-04	0.00	0.00	19.95	Oregon\McClaughry (19-20)	20F29117	01
20F29136	6.3 %	Dan Miggins	20-OSU-04	0.00	0.00	19.95	Oregon\McClaughry (19-20)	20F29117	01
20F29138	7.0 %	Dan Miggins	20-OSU-04	0.00	0.00	19.95	Oregon\McClaughry (19-20)	20F29117	01
20F29139	7.8 %	Dan Miggins	20-OSU-04	0.00	0.00	19.95	Oregon\McClaughry (19-20)	20F29117	01
20F29141	8.6 %	Dan Miggins	20-OSU-04	0.00	0.00	19.95	Oregon\McClaughry (19-20)	20F29117	01
20F29142	9.6 %	Dan Miggins	20-OSU-04	0.00	0.00	19.95	Oregon\McClaughry (19-20)	20F29117	01
20F29144	10.6 %	Dan Miggins	20-OSU-04	0.00	0.00	19.95	Oregon\McClaughry (19-20)	20F29117	01
20F29145	11.7 %	Dan Miggins	20-OSU-04	0.00	0.00	19.95	Oregon\McClaughry (19-20)	20F29117	01
20F29147	12.7 %	Dan Miggins	20-OSU-04	0.00	0.00	19.95	Oregon\McClaughry (19-20)	20F29117	01
20F29148	13.7 %	Dan Miggins	20-OSU-04	0.00	0.00	19.95	Oregon\McClaughry (19-20)	20F29117	01
20F29150	14.5 %	Dan Miggins	20-OSU-04	0.00	0.00	19.95	Oregon\McClaughry (19-20)	20F29117	01
20F29151	15.7 %	Dan Miggins	20-OSU-04	0.00	0.00	19.95	Oregon\McClaughry (19-20)	20F29117	01
20F29153	16.7 %	Dan Miggins	20-OSU-04	0.00	0.00	19.95	Oregon\McClaughry (19-20)	20F29117	01
20F29154	18.0 %	Dan Miggins	20-OSU-04	0.00	0.00	19.95	Oregon\McClaughry (19-20)	20F29117	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
20F29121	0.5 %	178 DFWJ 15	Plagioclase	Badger Lake	FCT-NM (4B16-20)	28.201	0.082	Kuiper et al (2008)	9.37737	0.048	0.00165563	0.048	297.392	0.145	1.0009831	0.045	1	3.54E-14	28	OCT	2020	18	16	1
	1.5 %	178 DFWJ 15	Plagioclase	Badger Lake	FCT-NM (4B16-20)	28.201	0.082	Kuiper et al (2008)	9.37737	0.048	0.00165563	0.048	297.392	0.145	1.0009831	0.045	1	3.54E-14	28	OCT	2020	18	33	1
20F29124	2.0 %	178 DFWJ 15	Plagioclase	Badger Lake	FCT-NM (4B16-20)	28.201	0.082	Kuiper et al (2008)	9.37737	0.048	0.00165563	0.048	297.392	0.145	1.0009831	0.045	1	3.54E-14	28	OCT	2020	18	42	1
20F29126	2.5 %	178 DFWJ 15	Plagioclase	Badger Lake	FCT-NM (4B16-20)	28.201	0.082	Kuiper et al (2008)	9.37737	0.048	0.00165563	0.048	297.392	0.145	1.0009831	0.045	1	3.54E-14	28	OCT	2020	18	59	1
20F29127	3.0 %	178 DFWJ 15	Plagioclase	Badger Lake	FCT-NM (4B16-20)	28.201	0.082	Kuiper et al (2008)	9.37737	0.048	0.00165563	0.048	297.392	0.145	1.0009831	0.045	1	3.54E-14	28	OCT	2020	19	8	1
20F29129	3.5 %	178 DFWJ 15	Plagioclase	Badger Lake	FCT-NM (4B16-20)	28.201	0.082	Kuiper et al (2008)	9.37737	0.048	0.00165563	0.048	297.392	0.145	1.0009831	0.045	1	3.54E-14	28	OCT	2020	19	25	1
20F29130	4.0 %	178 DFWJ 15	Plagioclase	Badger Lake	FCT-NM (4B16-20)	28.201	0.082	Kuiper et al (2008)	9.37737	0.048	0.00165563	0.048	297.392	0.145	1.0009831	0.045	1	3.54E-14	28	OCT	2020	19	34	1
20F29132	4.5 %	178 DFWJ 15	Plagioclase	Badger Lake	FCT-NM (4B16-20)	28.201	0.082	Kuiper et al (2008)	9.37737	0.048	0.00165563	0.048	297.392	0.145	1.0009831	0.045	1	3.54E-14	28	OCT	2020	19	51	1
20F29133	5.0 %	178 DFWJ 15	Plagioclase	Badger Lake	FCT-NM (4B16-20)	28.201	0.082	Kuiper et al (2008)	9.37737	0.048	0.00165563	0.048	297.392	0.145	1.0009831	0.045	1	3.54E-14	28	OCT	2020	20	0	1
20F29135	5.7 %	178 DFWJ 15	Plagioclase	Badger Lake	FCT-NM (4B16-20)	28.201	0.082	Kuiper et al (2008)	9.37737	0.048	0.00165563	0.048	297.392	0.145	1.0009831	0.045	1	3.54E-14	28	OCT	2020	20	17	1
20F29136	6.3 %	178 DFWJ 15	Plagioclase	Badger Lake	FCT-NM (4B16-20)	28.201	0.082	Kuiper et al (2008)	9.37737	0.048	0.00165563	0.048	297.392	0.145	1.0009831	0.045	1	3.54E-14	28	OCT	2020	20	26	1
20F29138	7.0 %	178 DFWJ 15	Plagioclase	Badger Lake	FCT-NM (4B16-20)	28.201	0.082	Kuiper et al (2008)	9.37737	0.048	0.00165563	0.048	297.392	0.145	1.0009831	0.045	1	3.54E-14	28	OCT	2020	20	43	1
20F29139	7.8 %	178 DFWJ 15	Plagioclase	Badger Lake	FCT-NM (4B16-20)	28.201	0.082	Kuiper et al (2008)	9.37737	0.048	0.00165563	0.048	297.392	0.145	1.0009831	0.045	1	3.54E-14	28	OCT	2020	20	52	1
20F29141	8.6 %	178 DFWJ 15	Plagioclase	Badger Lake	FCT-NM (4B16-20)	28.201	0.082	Kuiper et al (2008)	9.37737	0.048	0.00165563	0.048	297.392	0.145	1.0009831	0.045	1	3.54E-14	28	OCT	2020	21	9	1
20F29142	9.6 %	178 DFWJ 15	Plagioclase	Badger Lake	FCT-NM (4B16-20)	28.201	0.082	Kuiper et al (2008)	9.37737	0.048	0.00165563	0.048	297.392	0.145	1.0009831	0.045	1	3.54E-14	28	OCT	2020	21	18	1
20F29144	10.6 %	178 DFWJ 15	Plagioclase	Badger Lake	FCT-NM (4B16-20)	28.201	0.082	Kuiper et al (2008)	9.37737	0.048	0.00165563	0.048	297.392	0.145	1.0009831	0.045	1	3.54E-14	28	OCT	2020	21	35	1
20F29145	11.7 %	178 DFWJ 15	Plagioclase	Badger Lake	FCT-NM (4B16-20)	28.201	0.082	Kuiper et al (2008)	9.37737	0.048	0.00165563	0.048	297.392	0.145	1.0009831	0.045	1	3.54E-14	28	OCT	2020	21	44	1
20F29147	12.7 %	178 DFWJ 15	Plagioclase	Badger Lake	FCT-NM (4B16-20)	28.201	0.082	Kuiper et al (2008)	9.37737	0.048	0.00165563	0.048	297.392	0.145	1.0009831	0.045	1	3.54E-14	28	OCT	2020	22	1	1
20F29148	13.7 %	178 DFWJ 15	Plagioclase	Badger Lake	FCT-NM (4B16-20)	28.201	0.082	Kuiper et al (2008)	9.37737	0.048	0.00165563	0.048	297.392	0.145	1.0009831	0.045	1	3.54E-14	28	OCT	2020	22	10	1
20F29150	14.5 %	178 DFWJ 15	Plagioclase	Badger Lake	FCT-NM (4B16-20)	28.201	0.082	Kuiper et al (2008)	9.37737	0.048	0.00165563	0.048	297.392	0.145	1.0009831	0.045	1	3.54E-14	28	OCT	2020	22	27	1
20F29151	15.7 %	178 DFWJ 15	Plagioclase	Badger Lake	FCT-NM (4B16-20)	28.201	0.082	Kuiper et al (2008)	9.37737	0.048	0.00165563	0.048	297.392	0.145	1.0009831	0.045	1	3.54E-14	28	OCT	2020	22	35	1
20F29153	16.7 %	178 DFWJ 15	Plagioclase	Badger Lake	FCT-NM (4B16-20)	28.201	0.082	Kuiper et al (2008)	9.37737	0.048	0.00165563	0.048	297.392	0.145	1.0009831	0.045	1	3.54E-14	28	OCT	2020	22	53	1
20F29154	18.0 %	178 DFWJ 15	Plagioclase	Badger Lake	FCT-NM (4B16-20)	28.201	0.082	Kuiper et al (2008)	9.37737	0.048	0.00165563	0.048	297.392	0.145	1.0009831	0.045	1	3.54E-14	28	OCT	2020	23	1	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
20F29121	0.5 %	298.56	0.104	0.018	35	0.1885	0.159	1.493	3	0.000643	0.92	0.00018	9.63	0.00027	0.17	0.000607	9.65	0.012077	0.09	0	0	0.43	0	0	0	0	0
20F29123	1.5 %	298.56	0.104	0.018	35	0.1885	0.159	1.493	3	0.000643	0.92	0.00018	9.63	0.00027	0.17	0.000607	9.65	0.012077	0.09	0	0	0.43	0	0	0	0	0
20F29124	2.0 %	298.56	0.104	0.018	35	0.1885	0.159	1.493	3	0.000643	0.92	0.00018	9.63	0.00027	0.17	0.000607	9.65	0.012077	0.09	0	0	0.43	0	0	0	0	0
20F29126	2.5 %	298.56	0.104	0.018	35	0.1885	0.159	1.493	3	0.000643	0.92	0.00018	9.63	0.00027	0.17	0.000607	9.65	0.012077	0.09	0	0	0.43	0	0	0	0	0
20F29127	3.0 %	298.56	0.104	0.018	35	0.1885	0.159	1.493	3	0.000643	0.92	0.00018	9.63	0.00027	0.17	0.000607	9.65	0.012077	0.09	0	0	0.43	0	0	0	0	0
20F29129	3.5 %	298.56	0.104	0.018	35	0.1885	0.159	1.493	3	0.000643	0.92	0.00018	9.63	0.00027	0.17	0.000607	9.65	0.012077	0.09	0	0	0.43	0	0	0	0	0
20F29130	4.0 %	298.56	0.104	0.018	35	0.1885	0.159	1.493	3	0.000643	0.92	0.00018	9.63	0.00027	0.17	0.000607	9.65	0.012077	0.09	0	0	0.43	0	0	0	0	0
20F29132	4.5 %	298.56	0.104	0.018	35	0.1885	0.159	1.493	3	0.000643	0.92	0.00018	9.63	0.00027	0.17	0.000607	9.65	0.012077	0.09	0	0	0.43	0	0	0	0	0
20F29133	5.0 %	298.56	0.104	0.018	35	0.1885	0.159	1.493	3	0.000643	0.92	0.00018	9.63	0.00027	0.17	0.000607	9.65	0.012077	0.09	0	0	0.43	0	0	0	0	0
20F29135	5.7 %	298.56	0.104	0.018	35	0.1885	0.159	1.493	3	0.000643	0.92	0.00018	9.63	0.00027	0.17	0.000607	9.65	0.012077	0.09	0	0	0.43	0	0	0	0	0
20F29136	6.3 %	298.56	0.104	0.018	35	0.1885	0.159	1.493	3	0.000643	0.92	0.00018	9.63	0.00027	0.17	0.000607	9.65	0.012077	0.09	0	0	0.43	0	0	0	0	0
20F29138	7.0 %	298.56	0.104	0.018	35	0.1885	0.159	1.493	3	0.000643	0.92	0.00018	9.63	0.00027	0.17	0.000607	9.65	0.012077	0.09	0	0	0.43	0	0	0	0	0
20F29139	7.8 %	298.56	0.104	0.018	35	0.1885	0.159	1.493	3	0.000643	0.92	0.00018	9.63	0.00027	0.17	0.000607	9.65	0.012077	0.09	0	0	0.43	0	0	0	0	0
20F29141	8.6 %	298.56	0.104	0.018	35	0.1885	0.159	1.493	3	0.000643	0.92	0.00018	9.63	0.00027	0.17	0.000607	9.65	0.012077	0.09	0	0	0.43	0	0	0	0	0
20F29142	9.6 %	298.56	0.104	0.018	35	0.1885	0.159	1.493	3	0.000643	0.92	0.00018	9.63	0.00027	0.17	0.000607	9.65	0.012077	0.09	0	0	0.43	0	0	0	0	0
20F29144	10.6 %	298.56	0.104	0.018	35	0.1885	0.159	1.493	3	0.000643	0.92	0.00018	9.63	0.00027	0.17	0.000607	9.65	0.012077	0.09	0	0	0.43	0	0	0	0	0
20F29145	11.7 %	298.56	0.104	0.018	35	0.1885	0.159	1.493	3	0.000643	0.92	0.00018	9.63	0.00027	0.17	0.000607	9.65	0.012077	0.09	0	0	0.43	0	0	0	0	0
20F29147	12.7 %	298.56	0.104	0.018	35	0.1885	0.159	1.493	3	0.000643	0.92	0.00018	9.63	0.00027	0.17	0.000607	9.65	0.012077	0.09	0	0	0.43	0	0	0	0	0
20F29148	13.7 %	298.56	0.104	0.018	35	0.1885	0.159	1.493	3	0.000643	0.92	0.00018	9.63	0.00027	0.17	0.000607	9.65	0.012077	0.09	0	0	0.43	0	0	0	0	0
20F29150	14.5 %	298.56	0.104	0.018	35	0.1885	0.159	1.493	3	0.000643	0.92	0.00018	9.63	0.00027	0.17	0.000607	9.65	0.012077	0.09	0	0	0.43	0	0	0	0	0
20F29151	15.7 %	298.56	0.104	0.018	35	0.1885	0.159	1.493	3	0.000643	0.92	0.00018	9.63	0.00027	0.17	0.000607	9.65	0.012077	0.09	0	0	0.43	0	0	0	0	0
20F29153	16.7 %	298.56	0.104	0.018	35	0.1885	0.159	1.493	3	0.000643	0.92	0.00018	9.63	0.00027	0.17	0.000607	9.65	0.012077	0.09	0	0	0.43	0	0	0	0	0
20F29154	18.0 %	298.56	0.104	0.018	35	0.1885	0.159	1.493	3	0.000643	0.92	0.00018	9.63	0.00027	0.17	0.000607	9.65	0.012077	0.09	0	0	0.43	0	0	0	0	0

20F29117.AGE >>> 178 DFWJ 15 >>> OREGON | MCCLAUGHRY (19-20) PROJECT



Ar-Ages in Ma

WEIGHTED PLATEAU

1.51 ± 0.08

TOTAL FUSION

1.49 ± 0.07

NORMAL ISOCHRON

1.55 ± 0.16

INVERSE ISOCHRON

1.57 ± 0.15

MSWD (PROBABILITY)

1.75 (3%)

Sample Info

Plagioclase

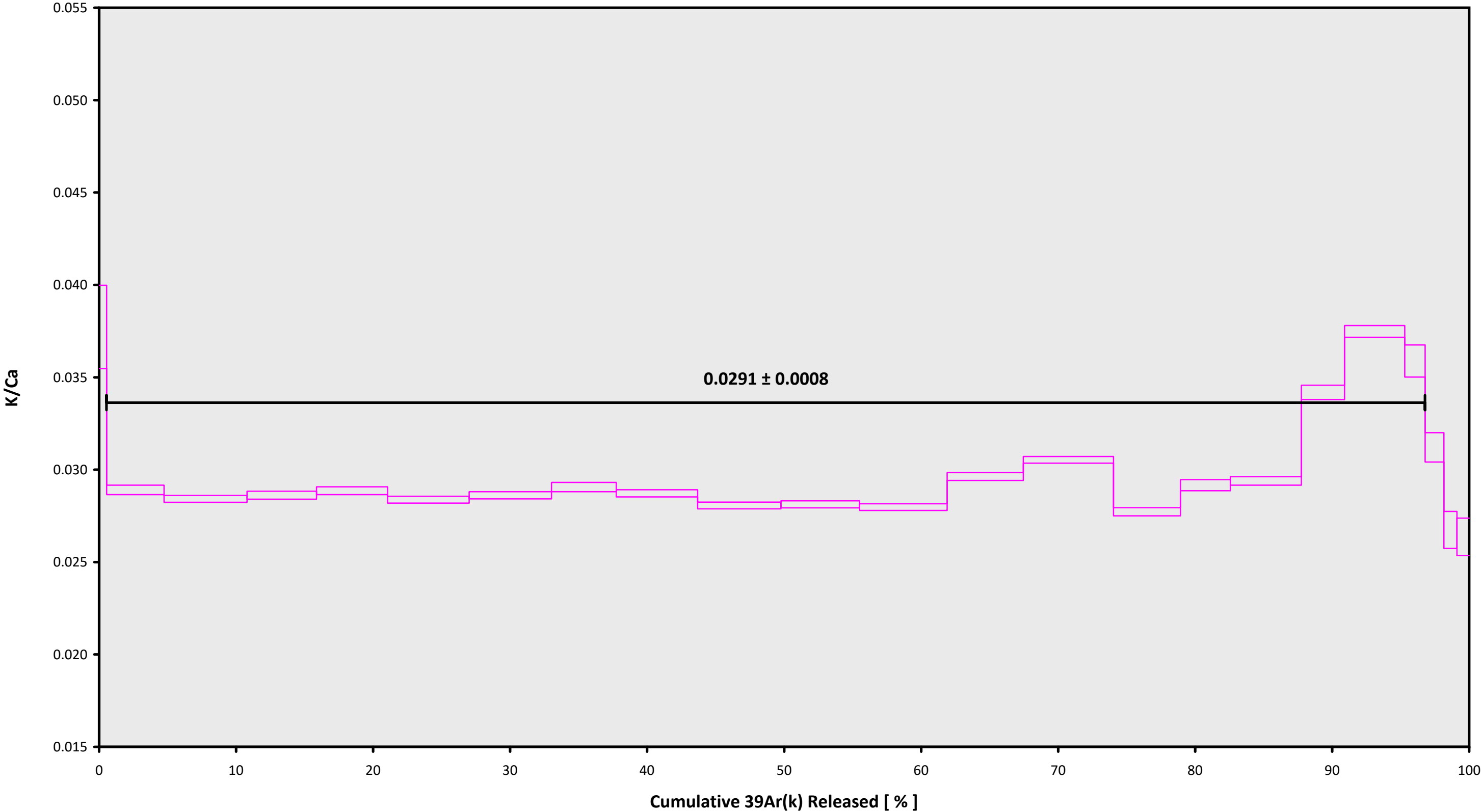
Badger Lake

Dan Miggins

IRR = 20-OSU-04 (4B16-20)

J = $0.00165563 \pm 0.00000079$

20F29117.AGE >>> 178 DFWJ 15 >>> OREGON | MCCLAUGHRY (19-20) PROJECT



Ar-Ages in Ma

WEIGHTED PLATEAU

1.51 \pm 0.08

TOTAL FUSION

1.49 \pm 0.07

NORMAL ISOCHRON

1.55 \pm 0.16

INVERSE ISOCHRON

1.57 \pm 0.15

Sample Info

Plagioclase

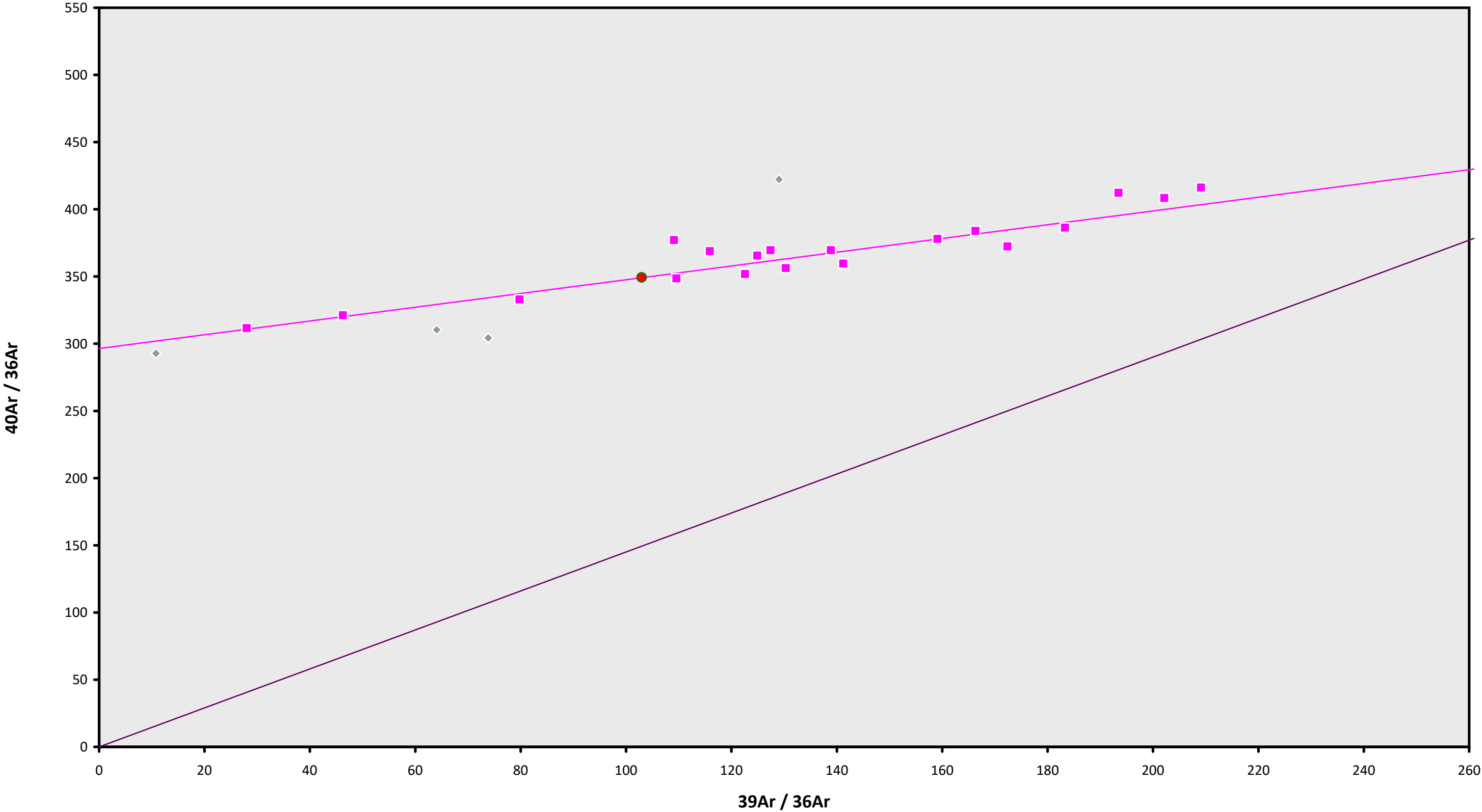
Badger Lake

Dan Miggins

IRR = 20-OSU-04 (4B16-20)

J = 0.00165563 \pm 0.00000079

20F29117.AGE >>> 178 DFWJ 15 >>> OREGON | MCCLAUGHRY (19-20) PROJECT



Ar-Ages in Ma

WEIGHTED PLATEAU

1.51 ± 0.08

TOTAL FUSION

1.49 ± 0.07

NORMAL ISOCHRON

1.55 ± 0.16

INVERSE ISOCHRON

1.57 ± 0.15

MSWD (PROBABILITY)

1.74 (3%)

40AR/36AR INTERCEPT

296.4 ± 5.5

Sample Info

Plagioclase

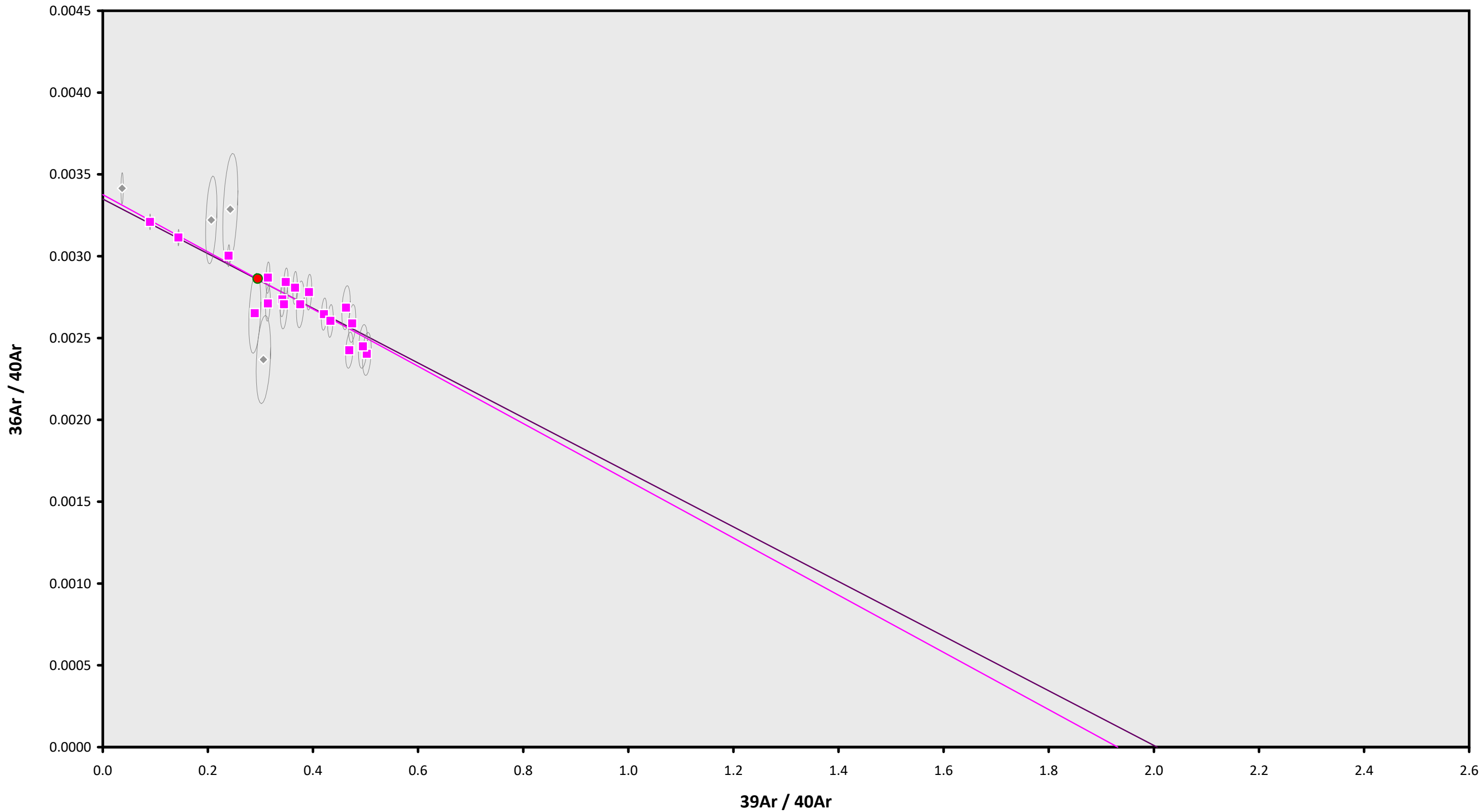
Badger Lake

Dan Miggins

IRR = 20-OSU-04 (4B16-20)

$J = 0.00165563 \pm 0.00000079$

20F29117.AGE >>> 178 DFWJ 15 >>> OREGON | MCCLAUGHRY (19-20) PROJECT



Ar-Ages in Ma

WEIGHTED PLATEAU

1.51 ± 0.08

TOTAL FUSION

1.49 ± 0.07

NORMAL ISOCHRON

1.55 ± 0.16

INVERSE ISOCHRON

1.57 ± 0.15

MSWD (PROBABILITY)

1.79 (2%)

SPREADING FACTOR

21.4%

40AR/36AR INTERCEPT

296.2 ± 5.6

Sample Info

Plagioclase

Badger Lake

Dan Miggins

IRR = 20-OSU-04 (4B16-20)

J = $0.00165563 \pm 0.00000079$