

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
13D04401	1.6 %	0.280093	0.605	0.368667	208.034	0.116293	36.112	2.1631	4.690	91.685	0.424	4.10621 ± 0.70352	12.87 ± 2.20	9.69	0.04	3 ± 11
13D04403	2.0 %	0.114967	1.083	0.950914	79.759	0.035359	112.432	1.3967	7.230	40.430	0.959	4.67513 ± 1.02510	14.65 ± 3.20	16.14	0.03	1 ± 1
13D04404	2.4 %	0.081046	1.362	0.105059	706.656	0.011023	391.827	1.5695	6.433	30.786	1.259	4.34705 ± 0.85729	13.62 ± 2.68	22.16	0.03	6 ± 91
13D04405	2.8 %	0.167330	0.748	1.909153	39.792	0.082324	49.550	2.7912	3.596	60.160	0.645	3.89069 ± 0.47723	12.20 ± 1.49	18.04	0.06	1 ± 1
13D04407	3.2 %	0.162840	0.817	1.487220	52.575	0.139064	28.807	5.2834	1.914	65.861	0.589	3.37766 ± 0.24698	10.59 ± 0.77	27.09	0.11	2 ± 2
13D04408	3.8 %	0.229818	0.634	0.754328	96.213	0.188818	20.472	9.1352	1.107	98.636	0.393	3.36652 ± 0.14767	10.56 ± 0.46	31.18	0.19	5 ± 10
13D04409	4.4 %	0.326500	0.510	0.559976	142.409	0.390477	10.587	19.4802	0.525	158.846	0.245	3.20032 ± 0.07291	10.04 ± 0.23	39.25	0.40	15 ± 43
13D04411	5.2 %	0.696255	0.398	0.784147	94.738	0.788702	5.251	39.7384	0.265	329.521	0.118	3.11289 ± 0.04863	9.77 ± 0.15	37.54	0.81	22 ± 41
13D04412	6.0 %	0.708922	0.380	0.757934	109.241	1.118566	3.513	56.7080	0.190	383.836	0.102	3.07214 ± 0.03344	9.64 ± 0.10	45.39	1.15	32 ± 70
13D04413	6.8 %	0.984231	0.376	1.455418	53.646	1.696791	2.241	86.6260	0.136	552.665	0.071	3.02039 ± 0.02809	9.48 ± 0.09	47.34	1.76	26 ± 27
13D04415	7.6 %	1.239342	0.344	1.281993	58.667	2.371323	1.629	127.1692	0.103	753.176	0.052	3.04013 ± 0.02170	9.54 ± 0.07	51.33	2.59	43 ± 50
13D04416	8.4 %	1.336478	0.332	1.687882	45.952	2.998048	1.346	166.0201	0.089	895.974	0.044	3.01529 ± 0.01736	9.46 ± 0.05	55.87	3.38	42 ± 39
13D04417	9.2 %	1.882104	0.301	1.195574	66.943	4.331804	0.900	236.6169	0.077	1269.451	0.031	3.01145 ± 0.01526	9.45 ± 0.05	56.13	4.81	85 ± 114
13D04419	10.0 %	1.771316	0.313	1.458789	50.307	5.150621	0.787	286.7807	0.073	1384.976	0.029	3.00114 ± 0.01256	9.42 ± 0.04	62.14	5.84	85 ± 85
13D04420	10.8 %	2.259590	0.296	1.517486	49.509	6.964901	0.601	390.3575	0.069	1841.111	0.022	3.00278 ± 0.01112	9.42 ± 0.03	63.67	7.94	111 ± 110
13D04421	11.6 %	1.919873	0.319	1.485248	50.219	6.966140	0.612	395.8497	0.068	1766.828	0.023	3.02701 ± 0.01025	9.50 ± 0.03	67.82	8.06	115 ± 115
13D04423	12.4 %	1.892442	0.312	2.106631	35.587	8.104819	0.497	456.6418	0.067	1946.157	0.021	3.03415 ± 0.00883	9.52 ± 0.03	71.19	9.29	93 ± 66
13D04424	13.2 %	1.873474	0.316	2.308821	33.636	7.804269	0.537	440.8764	0.067	1879.432	0.021	3.00417 ± 0.00909	9.43 ± 0.03	70.47	8.97	82 ± 55
13D04425	14.0 %	1.245475	0.330	1.467313	52.340	5.425259	0.765	307.8581	0.072	1288.526	0.031	2.98687 ± 0.00936	9.37 ± 0.03	71.36	6.26	90 ± 94
13D04427	14.8 %	1.482149	0.325	0.661127	118.333	6.274113	0.630	362.3936	0.069	1522.244	0.026	2.98860 ± 0.00916	9.38 ± 0.03	71.15	7.37	236 ± 558
13D04428	15.6 %	1.059459	0.347	0.667870	117.017	4.535919	0.858	259.0396	0.075	1085.808	0.036	2.97980 ± 0.01000	9.35 ± 0.03	71.09	5.27	167 ± 390
13D04429	16.4 %	0.986681	0.353	0.404507	179.499	4.300180	0.945	243.3731	0.076	1022.242	0.039	2.99894 ± 0.01016	9.41 ± 0.03	71.40	4.95	259 ± 929
13D04431	17.2 %	1.164332	0.340	0.865029	88.272	4.744281	0.851	267.2117	0.074	1142.730	0.035	2.98568 ± 0.01025	9.37 ± 0.03	69.82	5.44	133 ± 235
13D04432	18.0 %	0.778986	0.380	1.355007	55.398	3.359645	1.242	191.5560	0.083	803.304	0.049	2.98896 ± 0.01118	9.38 ± 0.04	71.27	3.90	61 ± 67
13D04433	18.8 %	0.790396	0.385	1.019725	77.175	3.215299	1.250	185.4732	0.084	785.618	0.050	2.97340 ± 0.01173	9.33 ± 0.04	70.20	3.77	78 ± 121
13D04435	19.6 %	0.772205	0.382	0.699642	111.564	3.566853	1.094	205.2073	0.081	837.435	0.047	2.96571 ± 0.01051	9.31 ± 0.03	72.67	4.18	126 ± 281
13D04436	20.4 %	0.633101	0.421	0.694347	113.003	2.900222	1.428	166.9530	0.088	685.292	0.057	2.98030 ± 0.01181	9.35 ± 0.04	72.61	3.40	103 ± 234
Σ		26.839406	0.075	27.673658	14.398	87.581113	0.240	4914.2697	0.019	22722.730	0.009					

Information on Analysis and Constants Used in Calculations

Project = **MV1203 (13-INT-04)**
Sample = **MV1203-D42-08**
Material = **Biotite**
Location = **Esk Guyot**
Region = **Walvis Ridge**
Analyst = **Susan Schnur**
Irradiation = **13-OSU-05**
Position = X: | Y: | Z/H: **23.2 mm**
FCT-NM Age = **28.201 ± 0.023 Ma**
FCT-NM Reference = **Kuiper et al (2008)**
FCT-NM 40Ar/39Ar Ratio = **9.03539 ± 0.01157**
FCT-NM J-value = **0.00173954 ± 0.00000223**
Air Shot 40Ar/36Ar = **302.7630 ± 0.2846**
Air Shot MDF = **0.99399498 ± 0.00062292 (LIN)**
Experiment Type = **Incremental Heating**
Extraction Method = **Bulk Laser Heating**
Heating = **60 sec**
Isolation = **5.52 min**
Instrument = **ARGUS-VI-D**
Preferred Age = **No Age**
Age Classification = **Undefined**
IGSN = **IESS10016**
Rock Class = **Igneous>Volcanic>Mafic**
Lithology = **Trachyte**
Lat-Lon = **38°41.2'S - 11°48.1'W**

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

Results

Age Plateau
Cannot Calculate

Total Fusion Age
3.00691 ± 0.00282 ± 0.09%
9.43 ± 0.03 ± 0.27%
Full External Error ± 0.21
Analytical Error ± 0.01

Normal Isochron
Cannot Calculate

Inverse Isochron
Cannot Calculate

Notes
Slanting downwards, bumpy, excess argon.

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
13D04401	1.6 %	0.280183	0.368667	0.037927	2.1633	8.883	12.87 ± 2.20	9.69	0.04	3 ± 11
13D04403	2.0 %	0.114714	0.950914	0.000000	1.3961	6.527	14.65 ± 3.20	16.14	0.03	1 ± 1
13D04404	2.4 %	0.081074	0.105059	0.000000	1.5695	6.823	13.62 ± 2.68	22.16	0.03	6 ± 91
13D04405	2.8 %	0.166817	1.909153	0.017443	2.7899	10.855	12.20 ± 1.49	18.04	0.06	1 ± 1
13D04407	3.2 %	0.162433	1.487220	0.045046	5.2824	17.842	10.59 ± 0.77	27.09	0.11	2 ± 2
13D04408	3.8 %	0.229609	0.754328	0.035950	9.1347	30.752	10.56 ± 0.46	31.18	0.19	5 ± 10
13D04409	4.4 %	0.326328	0.559976	0.095084	19.4799	62.342	10.04 ± 0.23	39.25	0.40	15 ± 43
13D04411	5.2 %	0.696004	0.784147	0.180476	39.7379	123.700	9.77 ± 0.15	37.54	0.81	22 ± 41
13D04412	6.0 %	0.708650	0.757934	0.303816	56.7075	174.214	9.64 ± 0.10	45.39	1.15	32 ± 70
13D04413	6.8 %	0.983733	1.455418	0.470641	86.6250	261.641	9.48 ± 0.09	47.34	1.76	26 ± 27
13D04415	7.6 %	1.238858	1.281993	0.609727	127.1683	386.608	9.54 ± 0.07	51.33	2.59	43 ± 50
13D04416	8.4 %	1.335853	1.687882	0.750882	166.0189	500.594	9.46 ± 0.05	55.87	3.38	42 ± 39
13D04417	9.2 %	1.881522	1.195574	1.133334	236.6161	712.556	9.45 ± 0.05	56.13	4.81	85 ± 114
13D04419	10.0 %	1.770608	1.458789	1.369343	286.7798	860.665	9.42 ± 0.04	62.14	5.84	85 ± 85
13D04420	10.8 %	2.258755	1.517486	1.846252	390.3565	1172.156	9.42 ± 0.03	63.67	7.94	111 ± 110
13D04421	11.6 %	1.919047	1.485248	1.844909	395.8487	1198.236	9.50 ± 0.03	67.82	8.06	115 ± 115
13D04423	12.4 %	1.891355	2.106631	2.257333	456.6404	1385.516	9.52 ± 0.03	71.19	9.29	93 ± 66
13D04424	13.2 %	1.872358	2.308821	2.149994	440.8748	1324.465	9.43 ± 0.03	70.47	8.97	82 ± 55
13D04425	14.0 %	1.244737	1.467313	1.488683	307.8571	919.529	9.37 ± 0.03	71.36	6.26	90 ± 94
13D04427	14.8 %	1.481591	0.661127	1.637204	362.3931	1083.048	9.38 ± 0.03	71.15	7.37	236 ± 558
13D04428	15.6 %	1.058996	0.667870	1.221445	259.0392	771.885	9.35 ± 0.03	71.09	5.27	167 ± 390
13D04429	16.4 %	0.986296	0.404507	1.187794	243.3728	729.862	9.41 ± 0.03	71.40	4.95	259 ± 929
13D04431	17.2 %	1.163796	0.865029	1.311888	267.2112	797.806	9.37 ± 0.03	69.82	5.44	133 ± 235
13D04432	18.0 %	0.778413	1.355007	0.909463	191.5551	572.550	9.38 ± 0.04	71.27	3.90	61 ± 67
13D04433	18.8 %	0.789929	1.019725	0.836168	185.4725	551.484	9.33 ± 0.04	70.20	3.77	78 ± 121
13D04435	19.6 %	0.771796	0.699642	0.953711	205.2068	608.585	9.31 ± 0.03	72.67	4.18	126 ± 281
13D04436	20.4 %	0.633106	0.694347	0.773327	166.9535	497.571	9.35 ± 0.04	72.61	3.40	103 ± 234
Σ		26.826562	27.673658	23.467838	4914.2510	14776.694				

Information on Analysis

Project = MV1203 (13-INT-04)
 Sample = MV1203-D42-08
 Material = Biotite
 Location = Esk Guyot
 Region = Walvis Ridge
 Analyst = Susan Schnur
 Irradiation = 13-OSU-05
 J = 0.00173954 ± 0.00000223
 FCT-NM = 28.201 ± 0.023 Ma

Results	40(r)/39(k) ± 2σ	Age ± 2σ (Ma)	MSWD	39Ar(k) (%,n)	K/Ca ± 2σ
Age Plateau					
Cannot Calculate					
Total Fusion Age	3.00691 ± 0.00282 ± 0.09%	9.43 ± 0.03 ± 0.27%		27	76 ± 22
		Full External Error ± 0.21			
		Analytical Error ± 0.01			

Normal Isochron		39(k)/36(a) ± 2σ	40(a+r)/36(a) ± 2σ	r.i.
13D04401	1.6 %	7.72 ± 0.73	327.20 ± 4.86	0.1058
13D04403	2.0 %	12.17 ± 1.78	352.40 ± 10.28	0.1133
13D04404	2.4 %	19.36 ± 2.55	379.66 ± 14.20	0.1555
13D04405	2.8 %	16.72 ± 1.23	360.57 ± 7.19	0.1576
13D04407	3.2 %	32.52 ± 1.36	405.34 ± 8.25	0.3241
13D04408	3.8 %	39.78 ± 1.02	429.43 ± 6.45	0.4263
13D04409	4.4 %	59.69 ± 0.88	486.54 ± 5.54	0.6313
13D04411	5.2 %	57.09 ± 0.55	473.23 ± 3.94	0.7988
13D04412	6.0 %	80.02 ± 0.68	541.34 ± 4.27	0.8647
13D04413	6.8 %	88.06 ± 0.71	561.47 ± 4.31	0.9249
13D04415	7.6 %	102.65 ± 0.74	607.57 ± 4.23	0.9473
13D04416	8.4 %	124.28 ± 0.86	670.24 ± 4.49	0.9573
13D04417	9.2 %	125.76 ± 0.78	674.21 ± 4.08	0.9639
13D04419	10.0 %	161.97 ± 1.04	781.58 ± 4.93	0.9701
13D04420	10.8 %	172.82 ± 1.05	814.44 ± 4.84	0.9716
13D04421	11.6 %	206.27 ± 1.35	919.89 ± 5.89	0.9753
13D04423	12.4 %	241.44 ± 1.54	1028.05 ± 6.43	0.9755
13D04424	13.2 %	235.47 ± 1.52	1002.88 ± 6.36	0.9759
13D04425	14.0 %	247.33 ± 1.68	1034.23 ± 6.88	0.9731
13D04427	14.8 %	244.60 ± 1.63	1026.50 ± 6.71	0.9749
13D04428	15.6 %	244.61 ± 1.74	1024.38 ± 7.17	0.9722
13D04429	16.4 %	246.75 ± 1.78	1035.50 ± 7.37	0.9717
13D04431	17.2 %	229.60 ± 1.60	981.02 ± 6.71	0.9721
13D04432	18.0 %	246.08 ± 1.92	1031.04 ± 7.92	0.9691
13D04433	18.8 %	234.80 ± 1.85	993.64 ± 7.73	0.9688
13D04435	19.6 %	265.88 ± 2.08	1084.03 ± 8.37	0.9709
13D04436	20.4 %	263.71 ± 2.28	1081.42 ± 9.23	0.9700

Results	40(a)/36(a) ± 2σ	40(r)/39(k) ± 2σ	Age ± 2σ (Ma)	MSWD
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Normal Isochron
 Cannot Calculate

Inverse Isochron		39(k)/40(a+r) ± 2σ	36(a)/40(a+r) ± 2σ	r.i.
13D04401	1.6 %	0.0235973 ± 0.0022222	0.00305619 ± 0.00004537	0.0513
13D04403	2.0 %	0.0345352 ± 0.0050396	0.00283771 ± 0.00008280	0.0864
13D04404	2.4 %	0.0509916 ± 0.0066845	0.00263397 ± 0.00009854	0.1293
13D04405	2.8 %	0.0463837 ± 0.0033904	0.00277339 ± 0.00005528	0.1141
13D04407	3.2 %	0.0802297 ± 0.0032138	0.00246704 ± 0.00005019	0.1703
13D04408	3.8 %	0.0926425 ± 0.0021767	0.00232865 ± 0.00003499	0.1755
13D04409	4.4 %	0.1226908 ± 0.0014225	0.00205533 ± 0.00002341	0.1819
13D04411	5.2 %	0.1206486 ± 0.0007004	0.00211315 ± 0.00001760	0.1159
13D04412	6.0 %	0.1478223 ± 0.0006374	0.00184727 ± 0.00001458	0.1213
13D04413	6.8 %	0.1568345 ± 0.0004797	0.00178105 ± 0.00001367	0.0855
13D04415	7.6 %	0.1689517 ± 0.0003903	0.00164591 ± 0.00001147	0.0674
13D04416	8.4 %	0.1854258 ± 0.0003697	0.00149201 ± 0.00001000	0.0582
13D04417	9.2 %	0.1865254 ± 0.0003090	0.00148321 ± 0.00000898	0.0391
13D04419	10.0 %	0.2072288 ± 0.0003241	0.00127945 ± 0.00000806	0.0334
13D04420	10.8 %	0.2121942 ± 0.0003053	0.00122784 ± 0.00000729	0.0221
13D04421	11.6 %	0.2242369 ± 0.0003235	0.00108709 ± 0.00000696	0.0223
13D04423	12.4 %	0.2348477 ± 0.0003300	0.00097271 ± 0.00000608	0.0196
13D04424	13.2 %	0.2347893 ± 0.0003315	0.00099713 ± 0.00000632	0.0204
13D04425	14.0 %	0.2391404 ± 0.0003736	0.00096690 ± 0.00000643	0.0367
13D04427	14.8 %	0.2382820 ± 0.0003533	0.00097418 ± 0.00000637	0.0282
13D04428	15.6 %	0.2387859 ± 0.0003984	0.00097620 ± 0.00000683	0.0458
13D04429	16.4 %	0.2382943 ± 0.0004075	0.00096571 ± 0.00000687	0.0493
13D04431	17.2 %	0.2340451 ± 0.0003827	0.00101935 ± 0.00000697	0.0429
13D04432	18.0 %	0.2386767 ± 0.0004598	0.00096990 ± 0.00000745	0.0649
13D04433	18.8 %	0.2362983 ± 0.0004637	0.00100640 ± 0.00000783	0.0657
13D04435	19.6 %	0.2452719 ± 0.0004612	0.00092248 ± 0.00000712	0.0610
13D04436	20.4 %	0.2438510 ± 0.0005132	0.00092471 ± 0.00000789	0.0728

Results	40(a)/36(a) ± 2σ	40(r)/39(k) ± 2σ	Age ± 2σ (Ma)	MSWD
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Inverse Isochron
 Cannot Calculate

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	
13D04401	1.6 %	0.280183	0.61	0.0000000	0.00	0.0000982	208.03	0.0000088	110.79	0.368667	208.03	0.0523661	0.61	0.0000000	0.00	0.026027	4.69	0.0000265	208.43	0.037927	110.79	2.1633	4.69	0.0002491	208.04	8.883	7.17	82.7939	0.61	0.0000000	0.00	0.008270	5.39	
13D04403	2.0 %	0.114714	1.10	0.0000000	0.00	0.0002532	79.76	0.0000000	0.00	0.950914	79.76	0.0214401	1.10	0.0000000	0.00	0.016796	7.23	0.0000683	80.78	0.0000000	0.00	1.3961	7.23	0.0006424	79.77	6.527	8.24	33.8980	1.10	0.0000000	0.00	0.005337	7.71	
13D04404	2.4 %	0.081074	1.38	0.0000000	0.00	0.0000280	706.66	0.0000000	0.00	0.105059	706.66	0.0151527	1.38	0.0000000	0.00	0.018883	6.43	0.0000075	706.77	0.0000000	0.00	1.5695	6.43	0.0000710	706.66	6.823	7.47	23.9574	1.38	0.0000000	0.00	0.006000	6.96	
13D04405	2.8 %	0.166817	0.76	0.0000000	0.00	0.0005084	39.79	0.0000041	233.98	1.909153	39.79	0.0311782	0.76	0.0000000	0.00	0.033566	3.60	0.0001371	41.81	0.017443	233.98	2.7899	3.60	0.0012898	39.81	10.855	4.97	49.2946	0.76	0.0000000	0.00	0.010666	4.47	
13D04407	3.2 %	0.162433	0.83	0.0000000	0.00	0.0003960	52.58	0.0000105	88.98	1.487220	52.58	0.0303588	0.83	0.0000000	0.00	0.063553	1.92	0.0001068	54.12	0.045046	88.99	5.2824	1.91	0.0010048	52.59	17.842	3.11	47.9990	0.83	0.0000000	0.00	0.020195	3.28	
13D04408	3.8 %	0.229609	0.64	0.0000000	0.00	0.0002009	96.21	0.0000084	107.59	0.754328	96.21	0.0429139	0.64	0.0000000	0.00	0.109900	1.12	0.0000542	97.06	0.035950	107.59	9.1347	1.11	0.0005096	96.22	30.752	1.89	67.8494	0.64	0.0000000	0.00	0.034922	2.88	
13D04409	4.4 %	0.326328	0.51	0.0000000	0.00	0.0001491	142.41	0.0000222	43.51	0.559976	142.41	0.0609908	0.51	0.0000000	0.00	0.234362	0.55	0.0000402	142.99	0.095084	43.52	19.4799	0.53	0.0003783	142.42	62.342	1.01	96.4301	0.51	0.0000000	0.00	0.074471	2.71	
13D04411	5.2 %	0.696004	0.40	0.0000000	0.00	0.0002088	94.74	0.0000421	22.98	0.784147	94.74	0.1300832	0.40	0.0000000	0.00	0.478086	0.31	0.0000563	95.60	0.180476	23.00	39.7379	0.27	0.0005298	94.75	123.700	0.73	205.6693	0.40	0.0000000	0.00	0.151918	2.67	
13D04412	6.0 %	0.708650	0.38	0.0000000	0.00	0.0002018	109.24	0.0000708	12.98	1.757934	109.24	0.1324466	0.38	0.0000000	0.00	0.682248	0.25	0.0000544	109.99	0.303816	13.01	56.7075	0.19	0.0005121	109.25	174.214	0.51	209.4060	0.38	0.0000000	0.00	0.216793	2.67	
13D04413	6.8 %	0.983733	0.38	0.0000000	0.00	0.0003876	53.65	0.0001097	8.15	1.455418	53.65	0.1838598	0.38	0.0000000	0.00	1.042186	0.21	0.0001045	55.16	0.470641	8.20	86.6250	0.14	0.0009833	53.66	261.641	0.44	290.6932	0.38	0.0000000	0.00	0.331168	2.66	
13D04415	7.6 %	1.238858	0.34	0.0000000	0.00	0.0003414	58.67	0.0001422	6.42	1.281993	58.67	0.2315426	0.34	0.0000000	0.00	1.529962	0.19	0.0000920	60.05	0.609727	6.49	127.1683	0.10	0.0008661	58.68	386.608	0.34	366.0826	0.34	0.0000000	0.00	0.486165	2.66	
13D04416	8.4 %	1.335853	0.33	0.0000000	0.00	0.0004495	45.95	0.0001751	5.47	1.687882	45.95	0.2496710	0.33	0.0000000	0.00	1.997374	0.18	0.0001212	47.71	0.750882	5.55	166.0189	0.09	0.0011403	45.97	500.594	0.27	394.7447	0.33	0.0000000	0.00	0.634690	2.66	
13D04417	9.2 %	1.881522	0.30	0.0000000	0.00	0.0003184	66.94	0.0002643	3.59	1.195574	66.94	0.3516564	0.30	0.0000000	0.00	2.846728	0.18	0.0000858	68.16	1.133334	3.70	236.6161	0.08	0.0008077	66.96	712.556	0.24	555.9897	0.30	0.0000000	0.00	0.904583	2.66	
13D04419	10.0 %	1.770608	0.31	0.0000000	0.00	0.0003885	50.31	0.0003193	3.13	1.458789	50.31	0.3309267	0.31	0.0000000	0.00	3.450247	0.18	0.0001047	51.92	1.369343	3.26	286.7798	0.07	0.0009856	50.32	860.665	0.20	523.2148	0.31	0.0000000	0.00	1.096359	2.66	
13D04420	10.8 %	2.258755	0.30	0.0000000	0.00	0.0004041	49.51	0.0004306	2.49	1.517486	49.51	0.4221614	0.30	0.0000000	0.00	4.696379	0.17	0.0001090	51.14	1.846252	2.65	390.3565	0.07	0.0010252	49.53	1172.156	0.17	667.4622	0.30	0.0000000	0.00	1.492333	2.66	
13D04421	11.6 %	1.919047	0.32	0.0000000	0.00	0.0003955	50.22	0.0004303	2.53	1.485248	50.22	0.3586699	0.32	0.0000000	0.00	4.762455	0.17	0.0001066	51.83	1.844909	2.69	395.8487	0.07	0.0010034	50.24	1198.236	0.15	567.0784	0.32	0.0000000	0.00	1.513329	2.66	
13D04423	12.4 %	1.891355	0.31	0.0000000	0.00	0.0005610	35.59	0.0005265	2.05	2.106631	35.59	0.3534942	0.31	0.0000000	0.00	5.493841	0.17	0.0001513	37.83	2.257333	2.25	456.6404	0.07	0.0014232	35.61	1385.516	0.13	558.8953	0.31	0.0000000	0.00	1.745736	2.66	
13D04424	13.2 %	1.872358	0.32	0.0000000	0.00	0.0006148	33.64	0.0005015	2.20	2.308821	33.64	0.3499437	0.32	0.0000000	0.00	5.304165	0.17	0.0001658	36.00	2.149994	2.38	440.8748	0.07	0.0015598	33.66	1324.465	0.14	553.2818	0.32	0.0000000	0.00	1.685464	2.66	
13D04425	14.0 %	1.244737	0.33	0.0000000	0.00	0.0003907	52.34	0.0003473	2.97	1.467313	52.34	0.2326414	0.33	0.0000000	0.00	3.703829	0.18	0.0001054	53.89	1.488683	3.11	307.8571	0.07	0.0009913	52.36	919.529	0.14	367.8198	0.33	0.0000000	0.00	1.176938	2.66	
13D04427	14.8 %	1.481591	0.33	0.0000000	0.00	0.0001761	118.33	0.0003820	2.63	0.661127	118.33	0.2769093	0.33	0.0000000	0.00	4.359952	0.17	0.0000475	119.03	1.637204	2.78	362.3931	0.07	0.0004467	118.34	1083.048	0.14	437.8100	0.33	0.0000000	0.00	1.385429	2.66	
13D04428	15.6 %	1.058996	0.35	0.0000000	0.00	0.0001779	117.02	0.0002850	3.35	0.667870	117.02	0.1979263	0.35	0.0000000	0.00	3.116500	0.18	0.0000480	117.72	1.221445	3.47	259.0392	0.07	0.0004512	117.02	771.885	0.15	312.9333	0.35	0.0000000	0.00	0.990307	2.66	
13D04429	16.4 %	0.986296	0.35	0.0000000	0.00	0.0001077	179.50	0.0002772	3.57	0.404507	179.50	0.1843387	0.35	0.0000000	0.00	2.928018	0.18	0.0000290	179.96	1.187794	3.69	243.3728	0.08	0.0002733	179.50	729.862	0.15	291.4504	0.35	0.0000000	0.00	0.930414	2.66	
13D04431	17.2 %	1.163796	0.34	0.0000000	0.00	0.0002304	88.27	0.0003062	3.24	0.865029	88.27	0.2175134	0.34	0.0000000	0.00	3.214818	0.18	0.0000621	89.20	1.311888	3.37	267.2112	0.07	0.0005844	88.28	797.806	0.15	343.9016	0.34	0.0000000	0.00	1.021548	2.66	
13D04432	18.0 %	0.778413	0.38	0.0000000	0.00	0.0003608	55.40	0.0002123	4.70	1.355007	55.40	0.1454855	0.38	0.0000000	0.00	2.304599	0.18	0.0000973	56.86	0.909463	4.79	191.5551	0.08	0.0009154	55.41	572.550	0.17	230.0211	0.38	0.0000000	0.00	0.732315	2.66	
13D04433	18.8 %	0.789929	0.39	0.0000000	0.00	0.0002716	77.18	0.0001952	4.92	1.019725	77.18	0.1476377	0.39	0.0000000	0.00	2.231420	0.18	0.0000732	78.23	0.836168	5.00	185.4725	0.08	0.0006889	77.19	551.484	0.18	233.4240	0.39	0.0000000	0.00	0.709061	2.66	
13D04435	19.6 %	0.771796	0.38	0.0000000	0.00	0.0001863	111.56	0.0002226	4.22	0.699642	111.56	0.1442486	0.38	0.0000000	0.00	2.468843	0.18	0.0000502	112.30	0.953711	4.32	205.2068	0.08	0.0004727	111.57	608.585	0.16	228.0656	0.38	0.0000000	0.00	0.784506	2.66	
13D04436	20.4 %	0.633106	0.42	0.0000000	0.00	0.0001849	113.00	0.0001805	5.46	0.694347	113.00	0.1183275	0.42	0.0000000	0.00	2.008617	0.18	0.0000499	113.73	0.773327	5.53	166.9535	0.09	0.0004691	113.01	497.571	0.18	187.0827	0.42	0.0000000	0.00	0.638263	2.66	
Σ		26.826562	0.08	0.0000000	0.00	0.0073695	14.40	0.0054745	0.90	27.673658	14.40	5.0138844	0.08	0.0000000	0.00	59.123354	0.04	0.0019870	14.70	23.467838	0.93	4914.2510	0.02	0.0186963	14.40	14776.694	0.04	7927.2491	0.08	0.0000000	0.00	18.787182	0.66	
Σ							26.839406		0.08	27.673658	14.40										87.607064	0.25			4914.2697	0.02					22722.730	0.04		

Additional Parameters		40Ar/39Ar	1σ	37Ar/39Ar	1σ	36Ar/39Ar	1σ	Time (days)	37Ar (decay)	39Ar (decay)	40Ar (moles)
13D04401	1.6 %	42.386396	1.996042	0.170436	0.354655	0.129488	0.006123	143.447	17.044436	1.00101355	4.401E-12
13D04403	2.0 %	28.946473	2.111032	0.680817	0.545238	0.082312	0.006017	143.464	17.050282	1.00101368	1.941E-12
13D04404	2.4 %	19.615799	1.285753	0.066939	0.473050	0.051639	0.003395	143.473	17.053322	1.00101374	1.478E-12
13D04405	2.8 %	21.553176	0.787341	0.683981	0.273279	0.059948	0.002202	143.481	17.056129	1.00101380	2.888E-12
13D04407	3.2 %	12.465670	0.249621	0.281488	0.148090	0.030821	0.000641	143.499	17.061979	1.00101392	3.161E-12
13D04408	3.8 %	10.797398	0.126833	0.082574	0.079452	0.025157	0.000321	143.507	17.064788	1.00101398	4.735E-12
13D04409	4.4 %	8.154232	0.047265	0.028746	0.040937	0.016761	0.000123	143.516	17.067831	1.00101404	7.625E-12
13D04411	5.2 %	8.292248	0.024067	0.019733	0.018695	0.017521	0.000084	143.533	17.073451	1.00101416	1.582E-11
13D04412	6.0 %	6.768640	0.014591	0.013366	0.014601	0.012501	0.000053	143.542	17.076495	1.00101423	1.842E-11
13D04413	6.8 %	6.379900	0.009755	0.016801	0.009013	0.011362	0.000045	143.550	17.079306	1.00101428	2.653E-11
13D04415	7.6 %	5.922633	0.006839	0.010081	0.005914	0.009746	0.000035	143.567	17.085164	1.00101441	3.615E-11
13D04416	8.4 %	5.396780	0.005378	0.010167	0.004672	0.008050	0.000028	143.576	17.088211	1.00101447	4.301E-11
13D04417	9.2 %	5.365005	0.004443	0.005053	0.003382	0.007954	0.000025	143.585	17.091024	1.00101453	6.093E-11
13D04419	10.0 %	4.829391	0.003775	0.005087	0.002559	0.006177	0.000020	143.602	17.096886	1.00101465	6.648E-11
13D04420	10.8 %	4.716474	0.003391	0.003887	0.001925	0.005789	0.000018	143.610	17.099700	1.00101471	8.837E-11
13D04421	11.6 %	4.463380	0.003218	0.003752	0.001884	0.004850	0.000016	143.619	17.102750	1.00101478	8.481E-11
13D04423	12.4 %	4.261889	0.002992	0.004613	0.001642	0.004144	0.000013	143.636	17.108381	1.00101489	9.342E-11
13D04424	13.2 %	4.262945	0.003008	0.005237	0.001762	0.004249	0.000014	143.645	17.111432	1.00101496	9.021E-11
13D04425	14.0 %	4.185453	0.003267	0.004766	0.002495	0.004046	0.000014	143.653	17.114249	1.00101502	6.185E-11
13D04427	14.8 %	4.200526	0.003112	0.001824	0.002159	0.004090	0.000014	143.671	17.120118	1.00101514	7.307E-11
13D04428	15.6 %	4.191668	0.003494	0.002578	0.003017	0.004090	0.000015	143.680	17.123171	1.00101520	5.212E-11
13D04429	16.4 %	4.200310	0.003589	0.001662	0.002983	0.004054	0.000015	143.688	17.125990	1.00101526	4.907E-11
13D04431	17.2 %	4.276495	0.003494	0.003237	0.002858	0.004357	0.000015	143.706	17.131864	1.00101538	5.485E-11
13D04432	18.0 %	4.193571	0.004037	0.007074	0.003919	0.004067	0.000016	143.714	17.134684	1.00101544	3.856E-11
13D04433	18.8 %	4.235747	0.004154	0.005498	0.004243	0.004262	0.000017	143.723	17.137740	1.00101551	3.771E-11
13D04435	19.6 %	4.080921	0.003834	0.003409	0.003804	0.003763	0.000015	143.740	17.143618	1.00101563	4.020E-11
13D04436	20.4 %	4.104699	0.004317	0.004159	0.004700	0.003792	0.000016	143.749	17.146440	1.00101569	3.289E-11

Procedure Blanks		36Ar ± 1σ (SE) [fA]	37Ar ± 1σ (SE) [fA]	38Ar ± 1σ (SE) [fA]	39Ar ± 1σ (SE) [fA]	40Ar ± 1σ (SE) [fA]
13D04401	1.6 %	0.0114460 ± 0.0007574	0.0192359 ± 0.0304615	0.0325330 ± 0.0282375	0.0306657 ± 0.0968584	2.8973424 ± 0.3872526
13D04403	2.0 %	0.0109857 ± 0.0007574	0.0182691 ± 0.0304615	0.0256817 ± 0.0282375	0.0300230 ± 0.0968584	2.8248317 ± 0.3872526
13D04404	2.4 %	0.0108287 ± 0.0007574	0.0295516 ± 0.0304615	0.0223348 ± 0.0282375	0.0311915 ± 0.0968584	2.8075134 ± 0.3872526
13D04405	2.8 %	0.0107279 ± 0.0007574	0.0358585 ± 0.0304615	0.0194205 ± 0.0282375	0.0332719 ± 0.0968584	2.8034815 ± 0.3872526
13D04407	3.2 %	0.0106371 ± 0.0007574	0.0388201 ± 0.0304615	0.0139991 ± 0.0282375	0.0408755 ± 0.0968584	2.8302400 ± 0.3872526
13D04408	3.8 %	0.0106429 ± 0.0007574	0.0364340 ± 0.0304615	0.0117505 ± 0.0282375	0.0461428 ± 0.0968584	2.8590106 ± 0.3872526
13D04409	4.4 %	0.0106799 ± 0.0007574	0.0317974 ± 0.0304615	0.0095967 ± 0.0282375	0.0530415 ± 0.0968584	2.9010159 ± 0.3872526
13D04411	5.2 %	0.0108178 ± 0.0007574	0.0193802 ± 0.0304615	0.0064302 ± 0.0282375	0.0689714 ± 0.0968584	3.0056189 ± 0.3872526
13D04412	6.0 %	0.0109228 ± 0.0007574	0.0114286 ± 0.0304615	0.0051637 ± 0.0282375	0.0792536 ± 0.0968584	3.0753559 ± 0.3872526
13D04413	6.8 %	0.0110344 ± 0.0007574	0.0037895 ± 0.0304615	0.0042737 ± 0.0282375	0.0897047 ± 0.0968584	3.1468194 ± 0.3872526
13D04415	7.6 %	0.0112990 ± 0.0007574	0.0118189 ± 0.0304615	0.0032516 ± 0.0282375	0.1141189 ± 0.0968584	3.3138333 ± 0.3872526
13D04416	8.4 %	0.0114474 ± 0.0007574	0.0192225 ± 0.0304615	0.0031378 ± 0.0282375	0.1280124 ± 0.0968584	3.4081984 ± 0.3872526
13D04417	9.2 %	0.0115872 ± 0.0007574	0.0253540 ± 0.0304615	0.0032632 ± 0.0282375	0.1414105 ± 0.0968584	3.4984521 ± 0.3872526
13D04419	10.0 %	0.0118765 ± 0.0007574	0.0353694 ± 0.0304615	0.0041365 ± 0.0282375	0.1705208 ± 0.0968584	3.6914276 ± 0.3872526
13D04420	10.8 %	0.0120098 ± 0.0007574	0.0386665 ± 0.0304615	0.0047933 ± 0.0282375	0.1847636 ± 0.0968584	3.7840430 ± 0.3872526
13D04421	11.6 %	0.0121469 ± 0.0007574	0.0410632 ± 0.0304615	0.0056291 ± 0.0282375	0.2001357 ± 0.0968584	3.8824720 ± 0.3872526
13D04423	12.4 %	0.0123720 ± 0.0007574	0.0423114 ± 0.0304615	0.0073545 ± 0.0282375	0.2275862 ± 0.0968584	4.0535524 ± 0.3872526
13D04424	13.2 %	0.0124748 ± 0.0007574	0.0413886 ± 0.0304615	0.0082899 ± 0.0282375	0.2414854 ± 0.0968584	4.1372934 ± 0.3872526
13D04425	14.0 %	0.0125555 ± 0.0007574	0.0396767 ± 0.0304615	0.0090868 ± 0.0282375	0.2534004 ± 0.0968584	4.2069876 ± 0.3872526
13D04427	14.8 %	0.0126734 ± 0.0007574	0.0341243 ± 0.0304615	0.0103060 ± 0.0282375	0.2743329 ± 0.0968584	4.3219461 ± 0.3872526
13D04428	15.6 %	0.0127051 ± 0.0007574	0.0306394 ± 0.0304615	0.0105666 ± 0.0282375	0.2825269 ± 0.0968584	4.3617780 ± 0.3872526
13D04429	16.4 %	0.0127146 ± 0.0007574	0.0274047 ± 0.0304615	0.0104896 ± 0.0282375	0.2880585 ± 0.0968584	4.3840231 ± 0.3872526
13D04431	17.2 %	0.0126699 ± 0.0007574	0.0219128 ± 0.0304615	0.0090443 ± 0.0282375	0.2919966 ± 0.0968584	4.3777737 ± 0.3872526
13D04432	18.0 %	0.0126159 ± 0.0007574	0.0205808 ± 0.0304615	0.0075796 ± 0.0282375	0.2895874 ± 0.0968584	4.3457038 ± 0.3872526
13D04433	18.8 %	0.0125324 ± 0.0007574	0.0206883 ± 0.0304615	0.0053060 ± 0.0282375	0.2833112 ± 0.0968584	4.2867136 ± 0.3872526
13D04435	19.6 %	0.0122974 ± 0.0007574	0.0274152 ± 0.0304615	0.0014602 ± 0.0282375	0.2589110 ± 0.0968584	4.0933189 ± 0.3872526
13D04436	20.4 %	0.0121492 ± 0.0007574	0.0347149 ± 0.0304615	0.0060172 ± 0.0282375	0.2406440 ± 0.0968584	3.9587290 ± 0.3872526

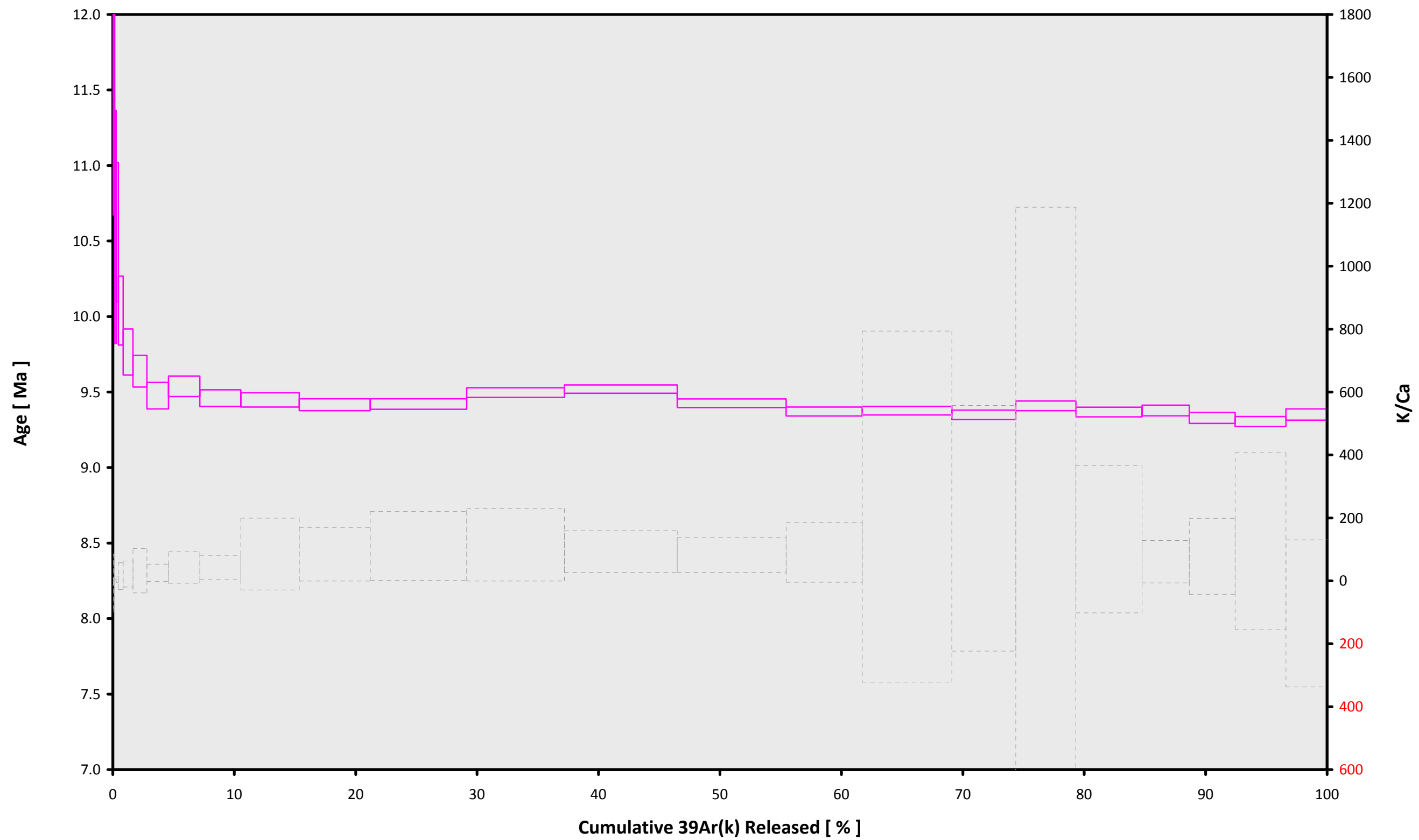
Intercept Values		36Ar ± 1σ (SE) [fA]	r2	Regression (type,n)	37Ar ± 1σ (SE) [fA]	r2	Regression (type,n)	38Ar ± 1σ (SE) [fA]	r2	Regression (type,n)	39Ar ± 1σ (SE) [fA]	r2	Regression (type,n)	40Ar ± 1σ (SE) [fA]	r2	Regression (type,n)
13D04401	1.6 %	0.2840912 ± 0.0012912	0.4220	EXP 150 of 150	0.0020048 ± 0.0320102	0.0204	EXP 149 of 150	0.0823641 ± 0.0304010	0.0034	EXP 150 of 150	2.17861 ± 0.02766	0.1341	EXP 150 of 150	94.78293 ± 0.03910	0.9510	EXP 150 of 150
13D04403	2.0 %	0.1228960 ± 0.0009020	0.0073	EXP 150 of 150	0.0364989 ± 0.0313078	0.0016	EXP 150 of 150	0.0092525 ± 0.0273012	0.0062	EXP 150 of 150	1.41697 ± 0.02592	0.0074	EXP 150 of 150	43.34340 ± 0.03065	0.9931	EXP 150 of 150
13D04404	2.4 %	0.0897197 ± 0.0007355	0.0374	EXP 150 of 150	0.0356013 ± 0.0299958	0.0111	EXP 150 of 150	0.0114441 ± 0.0319941	0.0151	EXP 150 of 150	1.58967 ± 0.02585	0.0206	EXP 150 of 150	33.66101 ± 0.02896	0.9944	EXP 150 of 150
13D04405	2.8 %	0.1736084 ± 0.0008589	0.1973	EXP 150 of 150	0.0740616 ± 0.0313845	0.0036	EXP 150 of 150	0.0619152 ± 0.0287559	0.0031	EXP 150 of 150	2.80497 ± 0.02341	0.3070	EXP 150 of 150	63.09495 ± 0.03281	0.9495	EXP 150 of 150
13D04407	3.2 %	0.1691468 ± 0.0009702	0.3083	EXP 150 of 150	0.0467776 ± 0.0331244	0.0001	EXP 150 of 150	0.1233955 ± 0.0277337	0.0036	EXP 150 of 150	5.28732 ± 0.02628	0.5932	EXP 150 of 150	68.83555 ± 0.03306	0.6211	EXP 150 of 150
13D04408	3.8 %	0.2343498 ± 0.0010539	0.4602	EXP 149 of 150	0.0069746 ± 0.0285719	0.0057	EXP 149 of 150	0.1747998 ± 0.0257107	0.0012	EXP 150 of 150	9.11740 ± 0.02583	0.8336	EXP 149 of 150	101.71092 ± 0.03531	0.9711	EXP 150 of 150
13D04409	4.4 %	0.3284977 ± 0.0011801	0.6809	EXP 150 of 150	0.0004212 ± 0.0343113	0.0027	EXP 150 of 150	0.3761917 ± 0.0295046	0.0018	EXP 149 of 150	19.39690 ± 0.02828	0.9533	EXP 150 of 150	162.09435 ± 0.04495	0.9949	EXP 150 of 150
13D04411	5.2 %	0.6885591 ± 0.0019285	0.8425	EXP 150 of 150	0.0257214 ± 0.0299631	0.0056	EXP 150 of 150	0.7728013 ± 0.0295996	0.0305	EXP 150 of 150	39.52920 ± 0.03077	0.9867	EXP 150 of 150	333.24628 ± 0.05123	0.9992	EXP 150 of 150
13D04412	6.0 %	0.7009943 ± 0.0017895	0.8464	EXP 150 of 150	0.0321576 ± 0.0365942	0.0003	EXP 150 of 150	1.0999702 ± 0.0266063	0.1384	EXP 150 of 150	56.39030 ± 0.02910	0.9941	EXP 150 of 150	387.75014 ± 0.04992	0.9995	EXP 150 of 150
13D04413	6.8 %	0.9690935 ± 0.0025408	0.8600	EXP 150 of 150	0.0798929 ± 0.0329743	0.0017	EXP 150 of 150	1.6721423 ± 0.0246849	0.2111	EXP 150 of 150	86.10929 ± 0.03629	0.9961	EXP 150 of 150	557.01954 ± 0.06107	0.9997	EXP 150 of 150
13D04415	7.6 %	1.2176856 ± 0.0026811	0.8914	EXP 150 of 150	0.0855046 ± 0.0306718	0.0010	EXP 150 of 150	2.3395969 ± 0.0255156	0.2832	EXP 149 of 150	126.39303 ± 0.03642	0.9982	EXP 150 of 150	758.13563 ± 0.06426	0.9998	EXP 150 of 150
13D04416	8.4 %	1.3123872 ± 0.0026541	0.9102	EXP 150 of 150	0.1162203 ± 0.0325364	0.0088	EXP 150 of 150	2.9589098 ± 0.0278797	0.2503	EXP 150 of 150	164.98581 ± 0.04133	0.9986	EXP 150 of 150	901.33928 ± 0.07867	0.9998	EXP 150 of 150
13D04417	9.2 %	1.8436446 ± 0.0028282	0.9502	EXP 150 of 150	0.0940489 ± 0.0344492	0.0008	EXP 150 of 150	4.2765249 ± 0.0256083	0.4484	EXP 150 of 150	235.10178 ± 0.03852	0.9994	EXP 150 of 150	1275.72236 ± 0.09048	0.9999	EXP 150 of 150
13D04419	10.0 %	1.7360918 ± 0.0030527	0.9353	EXP 150 of 150	0.1191594 ± 0.0291340	0.0011	EXP 150 of 150	5.0846364 ± 0.0276617	0.5136	EXP 150 of 150	284.94351 ± 0.04250	0.9995	EXP 150 of 150	1391.69318 ± 0.08587	0.9999	EXP 150 of 150
13D04420	10.8 %	2.2115153 ± 0.0032111	0.9536	EXP 150 of 150	0.1258135 ± 0.0305530	0.0020	EXP 149 of 150	6.8764734 ± 0.0289206	0.6513	EXP 150 of 150	387.80937 ± 0.05011	0.9996	EXP 150 of 150	1848.91702 ± 0.09441	0.9999	EXP 150 of 150
13D04421	11.6 %	1.8809685 ± 0.0035079	0.9256	EXP 150 of 150	0.1263436 ± 0.0301018	0.0126	EXP 150 of 150	6.8768624 ± 0.0300214	0.6483	EXP 150 of 150	393.27841 ± 0.05107	0.9996	EXP 150 of 150	1774.56980 ± 0.09852	0.9999	EXP 150 of 150
13D04423	12.4 %	1.8544925 ± 0.0032129	0.9293	EXP 149 of 150	0.1632308 ± 0.0303893	0.0000	EXP 149 of 150	8.0001420 ± 0.0262194	0.7703	EXP 150 of 150	453.67237 ± 0.05293	0.9997	EXP 150 of 150	1954.46170 ± 0.10766	0.9999	EXP 150 of 150
13D04424	13.2 %	1.8361317 ± 0.0033108	0.9273	EXP 150 of 150	0.1738900 ± 0.0325287	0.0000	EXP 150 of 150	7.7022659 ± 0.0286542	0.7018	EXP 150 of 150	438.03118 ± 0.04909	0.9997	EXP 150 of 150	1887.67478 ± 0.09954	0.9999	EXP 150 of 150
13D04425	14.0 %	1.2249123 ± 0.0024337	0.9139	EXP 150 of 150	0.1238707 ± 0.0318416	0.0004	EXP 150 of 150	5.3510257 ± 0.0289542	0.5418	EXP 150 of 150	305.95609 ± 0.04655	0.9995	EXP 150 of 150	1295.54754 ± 0.08713	0.9999	EXP 150 of 150
13D04427	14.8 %	1.4554103 ± 0.0028141	0.9120	EXP 150 of 150	0.0720466 ± 0.0329514	0.0015	EXP 150 of 150	6.1884674 ± 0.0258415	0.6596	EXP 150 of 150	360.13061 ± 0.04789	0.9996	EXP 150 of 150	1529.89090 ± 0.08558	0.9999	EXP 150 of 150
13D04428	15.6 %	1.0439919 ± 0.0023111	0.8851	EXP 150 of 150	0.0689417 ± 0.0328772	0.0012	EXP 150 of 150	4.4708856 ± 0.0254924	0.5252	EXP 150 of 150	257.50848 ± 0.04383	0.9994	EXP 150 of 150	1092.54196 ± 0.08628	0.9998	EXP 150 of 150
13D04429	16.4 %	0.9731587 ± 0.0022167	0.8812	EXP 150 of 150	0.0505993 ± 0.0283811	0.0057	EXP 149 of 150	4.2380541 ± 0.0280413	0.4483	EXP 150 of 150	241.95714 ± 0.04141	0.9993	EXP 150 of 150	1028.85960 ± 0.07977	0.9999	EXP 150 of 150
13D04431	17.2 %	1.1460414 ± 0.0024299	0.8931	EXP 150 of 150	0.0714969 ± 0.0314284	0.0060	EXP 150 of 150	4.6782678 ± 0.0275676	0.5110	EXP 150 of 150	265.63281 ± 0.04100	0.9995	EXP 150 of 150	1149.60372 ± 0.07971	0.9999	EXP 150 of 150
13D04432	18.0 %	0.7708883 ± 0.0019947	0.8290	EXP 150 of 150	0.0982380 ± 0.0303772	0.0008	EXP 149 of 150	3.3117226 ± 0.0297277	0.2977	EXP 150 of 150	190.50435 ± 0.03660	0.9992	EXP 150 of 150	809.40428 ± 0.07039	0.9998	EXP 150 of 150
13D04433	18.8 %	0.7819108 ± 0.0020836	0.8332	EXP 150 of 150	0.0791197 ± 0.0332498	0.0015	EXP 150 of 150	3.1713835 ± 0.0276259	0.2295	EXP 150 of 150	184.45787 ± 0.03860	0.9990	EXP 150 of 150	791.62050 ± 0.07049	0.9998	EXP 150 of 150
13D04435	19.6 %	0.7639685 ± 0.0019983	0.8526	EXP 150 of 150	0.0674918 ± 0.0327283	0.0006	EXP 150 of 150	3.5254830 ± 0.0258795	0.4207	EXP 150 of 150	204.02934 ± 0.04347	0.9990	EXP 150 of 150	843.35752 ± 0.07145	0.9998	EXP 150 of 150
13D04436	20.4 %	0.6284157 ± 0.0019247	0.7846	EXP 150 of 150	0.0050518 ± 0.0330373	0.0200	EXP 150 of 150	2.8714134 ± 0.0294059	0.2525	EXP 150 of 150	166.02465 ± 0.03627	0.9989	EXP 150 of 150	690.74767 ± 0.06105	0.9998	EXP 150 of 150

Project Info		Analyst	Irradiation	X-pos	Y-pos	Z/H-pos	Project	Experiment	Nmb
13D04401	1.6 %	Susan Schnur	13-OSU-05			23.20	Walvis Ridge\MV1203 (13-INT-04)	13D04400	01
13D04403	2.0 %	Susan Schnur	13-OSU-05			23.20	Walvis Ridge\MV1203 (13-INT-04)	13D04400	01
13D04404	2.4 %	Susan Schnur	13-OSU-05			23.20	Walvis Ridge\MV1203 (13-INT-04)	13D04400	01
13D04405	2.8 %	Susan Schnur	13-OSU-05			23.20	Walvis Ridge\MV1203 (13-INT-04)	13D04400	01
13D04407	3.2 %	Susan Schnur	13-OSU-05			23.20	Walvis Ridge\MV1203 (13-INT-04)	13D04400	01
13D04408	3.8 %	Susan Schnur	13-OSU-05			23.20	Walvis Ridge\MV1203 (13-INT-04)	13D04400	01
13D04409	4.4 %	Susan Schnur	13-OSU-05			23.20	Walvis Ridge\MV1203 (13-INT-04)	13D04400	01
13D04411	5.2 %	Susan Schnur	13-OSU-05			23.20	Walvis Ridge\MV1203 (13-INT-04)	13D04400	01
13D04412	6.0 %	Susan Schnur	13-OSU-05			23.20	Walvis Ridge\MV1203 (13-INT-04)	13D04400	01
13D04413	6.8 %	Susan Schnur	13-OSU-05			23.20	Walvis Ridge\MV1203 (13-INT-04)	13D04400	01
13D04415	7.6 %	Susan Schnur	13-OSU-05			23.20	Walvis Ridge\MV1203 (13-INT-04)	13D04400	01
13D04416	8.4 %	Susan Schnur	13-OSU-05			23.20	Walvis Ridge\MV1203 (13-INT-04)	13D04400	01
13D04417	9.2 %	Susan Schnur	13-OSU-05			23.20	Walvis Ridge\MV1203 (13-INT-04)	13D04400	01
13D04419	10.0 %	Susan Schnur	13-OSU-05			23.20	Walvis Ridge\MV1203 (13-INT-04)	13D04400	01
13D04420	10.8 %	Susan Schnur	13-OSU-05			23.20	Walvis Ridge\MV1203 (13-INT-04)	13D04400	01
13D04421	11.6 %	Susan Schnur	13-OSU-05			23.20	Walvis Ridge\MV1203 (13-INT-04)	13D04400	01
13D04423	12.4 %	Susan Schnur	13-OSU-05			23.20	Walvis Ridge\MV1203 (13-INT-04)	13D04400	01
13D04424	13.2 %	Susan Schnur	13-OSU-05			23.20	Walvis Ridge\MV1203 (13-INT-04)	13D04400	01
13D04425	14.0 %	Susan Schnur	13-OSU-05			23.20	Walvis Ridge\MV1203 (13-INT-04)	13D04400	01
13D04427	14.8 %	Susan Schnur	13-OSU-05			23.20	Walvis Ridge\MV1203 (13-INT-04)	13D04400	01
13D04428	15.6 %	Susan Schnur	13-OSU-05			23.20	Walvis Ridge\MV1203 (13-INT-04)	13D04400	01
13D04429	16.4 %	Susan Schnur	13-OSU-05			23.20	Walvis Ridge\MV1203 (13-INT-04)	13D04400	01
13D04431	17.2 %	Susan Schnur	13-OSU-05			23.20	Walvis Ridge\MV1203 (13-INT-04)	13D04400	01
13D04432	18.0 %	Susan Schnur	13-OSU-05			23.20	Walvis Ridge\MV1203 (13-INT-04)	13D04400	01
13D04433	18.8 %	Susan Schnur	13-OSU-05			23.20	Walvis Ridge\MV1203 (13-INT-04)	13D04400	01
13D04435	19.6 %	Susan Schnur	13-OSU-05			23.20	Walvis Ridge\MV1203 (13-INT-04)	13D04400	01
13D04436	20.4 %	Susan Schnur	13-OSU-05			23.20	Walvis Ridge\MV1203 (13-INT-04)	13D04400	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	
13D04401	1.6 %	MV1203-D42-08	Biotite	Esk Guyot	FCT-NM	28.201	0.082	Kuiper et al (2008)	9.03539	0.128	0.00173954	0.128	302.763	0.094	0.993995	0.063	1	4.8E-14	12	NOV	2013	8	19	1
13D04403	2.0 %	MV1203-D42-08	Biotite	Esk Guyot	FCT-NM	28.201	0.082	Kuiper et al (2008)	9.03539	0.128	0.00173954	0.128	302.763	0.094	0.993995	0.063	1	4.8E-14	12	NOV	2013	8	44	1
13D04404	2.4 %	MV1203-D42-08	Biotite	Esk Guyot	FCT-NM	28.201	0.082	Kuiper et al (2008)	9.03539	0.128	0.00173954	0.128	302.763	0.094	0.993995	0.063	1	4.8E-14	12	NOV	2013	8	57	1
13D04405	2.8 %	MV1203-D42-08	Biotite	Esk Guyot	FCT-NM	28.201	0.082	Kuiper et al (2008)	9.03539	0.128	0.00173954	0.128	302.763	0.094	0.993995	0.063	1	4.8E-14	12	NOV	2013	9	9	1
13D04407	3.2 %	MV1203-D42-08	Biotite	Esk Guyot	FCT-NM	28.201	0.082	Kuiper et al (2008)	9.03539	0.128	0.00173954	0.128	302.763	0.094	0.993995	0.063	1	4.8E-14	12	NOV	2013	9	34	1
13D04408	3.8 %	MV1203-D42-08	Biotite	Esk Guyot	FCT-NM	28.201	0.082	Kuiper et al (2008)	9.03539	0.128	0.00173954	0.128	302.763	0.094	0.993995	0.063	1	4.8E-14	12	NOV	2013	9	46	1
13D04409	4.4 %	MV1203-D42-08	Biotite	Esk Guyot	FCT-NM	28.201	0.082	Kuiper et al (2008)	9.03539	0.128	0.00173954	0.128	302.763	0.094	0.993995	0.063	1	4.8E-14	12	NOV	2013	9	59	1
13D04411	5.2 %	MV1203-D42-08	Biotite	Esk Guyot	FCT-NM	28.201	0.082	Kuiper et al (2008)	9.03539	0.128	0.00173954	0.128	302.763	0.094	0.993995	0.063	1	4.8E-14	12	NOV	2013	10	23	1
13D04412	6.0 %	MV1203-D42-08	Biotite	Esk Guyot	FCT-NM	28.201	0.082	Kuiper et al (2008)	9.03539	0.128	0.00173954	0.128	302.763	0.094	0.993995	0.063	1	4.8E-14	12	NOV	2013	10	36	1
13D04413	6.8 %	MV1203-D42-08	Biotite	Esk Guyot	FCT-NM	28.201	0.082	Kuiper et al (2008)	9.03539	0.128	0.00173954	0.128	302.763	0.094	0.993995	0.063	1	4.8E-14	12	NOV	2013	10	48	1
13D04415	7.6 %	MV1203-D42-08	Biotite	Esk Guyot	FCT-NM	28.201	0.082	Kuiper et al (2008)	9.03539	0.128	0.00173954	0.128	302.763	0.094	0.993995	0.063	1	4.8E-14	12	NOV	2013	11	13	1
13D04416	8.4 %	MV1203-D42-08	Biotite	Esk Guyot	FCT-NM	28.201	0.082	Kuiper et al (2008)	9.03539	0.128	0.00173954	0.128	302.763	0.094	0.993995	0.063	1	4.8E-14	12	NOV	2013	11	26	1
13D04417	9.2 %	MV1203-D42-08	Biotite	Esk Guyot	FCT-NM	28.201	0.082	Kuiper et al (2008)	9.03539	0.128	0.00173954	0.128	302.763	0.094	0.993995	0.063	1	4.8E-14	12	NOV	2013	11	38	1
13D04419	10.0 %	MV1203-D42-08	Biotite	Esk Guyot	FCT-NM	28.201	0.082	Kuiper et al (2008)	9.03539	0.128	0.00173954	0.128	302.763	0.094	0.993995	0.063	1	4.8E-14	12	NOV	2013	12	3	1
13D04420	10.8 %	MV1203-D42-08	Biotite	Esk Guyot	FCT-NM	28.201	0.082	Kuiper et al (2008)	9.03539	0.128	0.00173954	0.128	302.763	0.094	0.993995	0.063	1	4.8E-14	12	NOV	2013	12	15	1
13D04421	11.6 %	MV1203-D42-08	Biotite	Esk Guyot	FCT-NM	28.201	0.082	Kuiper et al (2008)	9.03539	0.128	0.00173954	0.128	302.763	0.094	0.993995	0.063	1	4.8E-14	12	NOV	2013	12	28	1
13D04423	12.4 %	MV1203-D42-08	Biotite	Esk Guyot	FCT-NM	28.201	0.082	Kuiper et al (2008)	9.03539	0.128	0.00173954	0.128	302.763	0.094	0.993995	0.063	1	4.8E-14	12	NOV	2013	12	52	1
13D04424	13.2 %	MV1203-D42-08	Biotite	Esk Guyot	FCT-NM	28.201	0.082	Kuiper et al (2008)	9.03539	0.128	0.00173954	0.128	302.763	0.094	0.993995	0.063	1	4.8E-14	12	NOV	2013	13	5	1
13D04425	14.0 %	MV1203-D42-08	Biotite	Esk Guyot	FCT-NM	28.201	0.082	Kuiper et al (2008)	9.03539	0.128	0.00173954	0.128	302.763	0.094	0.993995	0.063	1	4.8E-14	12	NOV	2013	13	17	1
13D04427	14.8 %	MV1203-D42-08	Biotite	Esk Guyot	FCT-NM	28.201	0.082	Kuiper et al (2008)	9.03539	0.128	0.00173954	0.128	302.763	0.094	0.993995	0.063	1	4.8E-14	12	NOV	2013	13	42	1
13D04428	15.6 %	MV1203-D42-08	Biotite	Esk Guyot	FCT-NM	28.201	0.082	Kuiper et al (2008)	9.03539	0.128	0.00173954	0.128	302.763	0.094	0.993995	0.063	1	4.8E-14	12	NOV	2013	13	55	1
13D04429	16.4 %	MV1203-D42-08	Biotite	Esk Guyot	FCT-NM	28.201	0.082	Kuiper et al (2008)	9.03539	0.128	0.00173954	0.128	302.763	0.094	0.993995	0.063	1	4.8E-14	12	NOV	2013	14	7	1
13D04431	17.2 %	MV1203-D42-08	Biotite	Esk Guyot	FCT-NM	28.201	0.082	Kuiper et al (2008)	9.03539	0.128	0.00173954	0.128	302.763	0.094	0.993995	0.063	1	4.8E-14	12	NOV	2013	14	32	1
13D04432	18.0 %	MV1203-D42-08	Biotite	Esk Guyot	FCT-NM	28.201	0.082	Kuiper et al (2008)	9.03539	0.128	0.00173954	0.128	302.763	0.094	0.993995	0.063	1	4.8E-14	12	NOV	2013	14	44	1
13D04433	18.8 %	MV1203-D42-08	Biotite	Esk Guyot	FCT-NM	28.201	0.082	Kuiper et al (2008)	9.03539	0.128	0.00173954	0.128	302.763	0.094	0.993995	0.063	1	4.8E-14	12	NOV	2013	14	57	1
13D04435	19.6 %	MV1203-D42-08	Biotite	Esk Guyot	FCT-NM	28.201	0.082	Kuiper et al (2008)	9.03539	0.128	0.00173954	0.128	302.763	0.094	0.993995	0.063	1	4.8E-14	12	NOV	2013	15	22	1
13D04436	20.4 %	MV1203-D42-08	Biotite	Esk Guyot	FCT-NM	28.201	0.082	Kuiper et al (2008)	9.03539	0.128	0.00173954	0.128	302.763	0.094	0.993995	0.063	1	4.8E-14	12	NOV	2013	15	34	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
13D04401	1.6 %	295.5	0	0.018	35	0.1869	0	1.493	3	0.000676	1.32	7.18E-05	12.82	0.000266	0.15	0.003823	2.66	0.012031	0.16	0	0	0.43	0	0	0	0	0
13D04403	2.0 %	295.5	0	0.018	35	0.1869	0	1.493	3	0.000676	1.32	7.18E-05	12.82	0.000266	0.15	0.003823	2.66	0.012031	0.16	0	0	0.43	0	0	0	0	0
13D04404	2.4 %	295.5	0	0.018	35	0.1869	0	1.493	3	0.000676	1.32	7.18E-05	12.82	0.000266	0.15	0.003823	2.66	0.012031	0.16	0	0	0.43	0	0	0	0	0
13D04405	2.8 %	295.5	0	0.018	35	0.1869	0	1.493	3	0.000676	1.32	7.18E-05	12.82	0.000266	0.15	0.003823	2.66	0.012031	0.16	0	0	0.43	0	0	0	0	0
13D04407	3.2 %	295.5	0	0.018	35	0.1869	0	1.493	3	0.000676	1.32	7.18E-05	12.82	0.000266	0.15	0.003823	2.66	0.012031	0.16	0	0	0.43	0	0	0	0	0
13D04408	3.8 %	295.5	0	0.018	35	0.1869	0	1.493	3	0.000676	1.32	7.18E-05	12.82	0.000266	0.15	0.003823	2.66	0.012031	0.16	0	0	0.43	0	0	0	0	0
13D04409	4.4 %	295.5	0	0.018	35	0.1869	0	1.493	3	0.000676	1.32	7.18E-05	12.82	0.000266	0.15	0.003823	2.66	0.012031	0.16	0	0	0.43	0	0	0	0	0
13D04411	5.2 %	295.5	0	0.018	35	0.1869	0	1.493	3	0.000676	1.32	7.18E-05	12.82	0.000266	0.15	0.003823	2.66	0.012031	0.16	0	0	0.43	0	0	0	0	0
13D04412	6.0 %	295.5	0	0.018	35	0.1869	0	1.493	3	0.000676	1.32	7.18E-05	12.82	0.000266	0.15	0.003823	2.66	0.012031	0.16	0	0	0.43	0	0	0	0	0
13D04413	6.8 %	295.5	0	0.018	35	0.1869	0	1.493	3	0.000676	1.32	7.18E-05	12.82	0.000266	0.15	0.003823	2.66	0.012031	0.16	0	0	0.43	0	0	0	0	0
13D04415	7.6 %	295.5	0	0.018	35	0.1869	0	1.493	3	0.000676	1.32	7.18E-05	12.82	0.000266	0.15	0.003823	2.66	0.012031	0.16	0	0	0.43	0	0	0	0	0
13D04416	8.4 %	295.5	0	0.018	35	0.1869	0	1.493	3	0.000676	1.32	7.18E-05	12.82	0.000266	0.15	0.003823	2.66	0.012031	0.16	0	0	0.43	0	0	0	0	0
13D04417	9.2 %	295.5	0	0.018	35	0.1869	0	1.493	3	0.000676	1.32	7.18E-05	12.82	0.000266	0.15	0.003823	2.66	0.012031	0.16	0	0	0.43	0	0	0	0	0
13D04419	10.0 %	295.5	0	0.018	35	0.1869	0	1.493	3	0.000676	1.32	7.18E-05	12.82	0.000266	0.15	0.003823	2.66	0.012031	0.16	0	0	0.43	0	0	0	0	0
13D04420	10.8 %	295.5	0	0.018	35	0.1869	0	1.493	3	0.000676	1.32	7.18E-05	12.82	0.000266	0.15	0.003823	2.66	0.012031	0.16	0	0	0.43	0	0	0	0	0
13D04421	11.6 %	295.5	0	0.018	35	0.1869	0	1.493	3	0.000676	1.32	7.18E-05	12.82	0.000266	0.15	0.003823	2.66	0.012031	0.16	0	0	0.43	0	0	0	0	0
13D04423	12.4 %	295.5	0	0.018	35	0.1869	0	1.493	3	0.000676	1.32	7.18E-05	12.82	0.000266	0.15	0.003823	2.66	0.012031	0.16	0	0	0.43	0	0	0	0	0
13D04424	13.2 %	295.5	0	0.018	35	0.1869	0	1.493	3	0.000676	1.32	7.18E-05	12.82	0.000266	0.15	0.003823	2.66	0.012031	0.16	0	0	0.43	0	0	0	0	0
13D04425	14.0 %	295.5	0	0.018	35	0.1869	0	1.493	3	0.000676	1.32	7.18E-05	12.82	0.000266	0.15	0.003823	2.66	0.012031	0.16	0	0	0.43	0	0	0	0	0
13D04427	14.8 %	295.5	0	0.018	35	0.1869	0	1.493	3	0.000676	1.32	7.18E-05	12.82	0.000266	0.15	0.003823	2.66	0.012031	0.16	0	0	0.43	0	0	0	0	0
13D04428	15.6 %	295.5	0	0.018	35	0.1869	0	1.493	3	0.000676	1.32	7.18E-05	12.82	0.000266	0.15	0.003823	2.66	0.012031	0.16	0	0	0.43	0	0	0	0	0
13D04429	16.4 %	295.5	0	0.018	35	0.1869	0	1.493	3	0.000676	1.32	7.18E-05	12.82	0.000266	0.15	0.003823	2.66	0.012031	0.16	0	0	0.43	0	0	0	0	0
13D04431	17.2 %	295.5	0	0.018	35	0.1869	0	1.493	3	0.000676	1.32	7.18E-05	12.82	0.000266	0.15	0.003823	2.66	0.012031	0.16	0	0	0.43	0	0	0	0	0
13D04432	18.0 %	295.5	0	0.018	35	0.1869	0	1.493	3	0.000676	1.32	7.18E-05	12.82	0.000266	0.15	0.003823	2.66	0.012031	0.16	0	0	0.43	0	0	0	0	0
13D04433	18.8 %	295.5	0	0.018	35	0.1869	0	1.493	3	0.000676	1.32	7.18E-05	12.82	0.000266	0.15	0.003823	2.66	0.012031	0.16	0	0	0.43	0	0	0	0	0
13D04435	19.6 %	295.5	0	0.018	35	0.1869	0	1.493	3	0.000676	1.32	7.18E-05	12.82	0.000266	0.15	0.003823	2.66	0.012031	0.16	0	0	0.43	0	0	0	0	0
13D04436	20.4 %	295.5	0	0.018	35	0.1869	0	1.493	3	0.000676	1.32	7.18E-05	12.82	0.000266	0.15	0.003823	2.66	0.012031	0.16	0	0	0.43	0	0	0	0	0

13D04400.AGE >>> MV1203-D42-08 >>> WALVIS RIDGE | MV1203 (13-INT-04) PROJECT



Ar-Ages in Ma

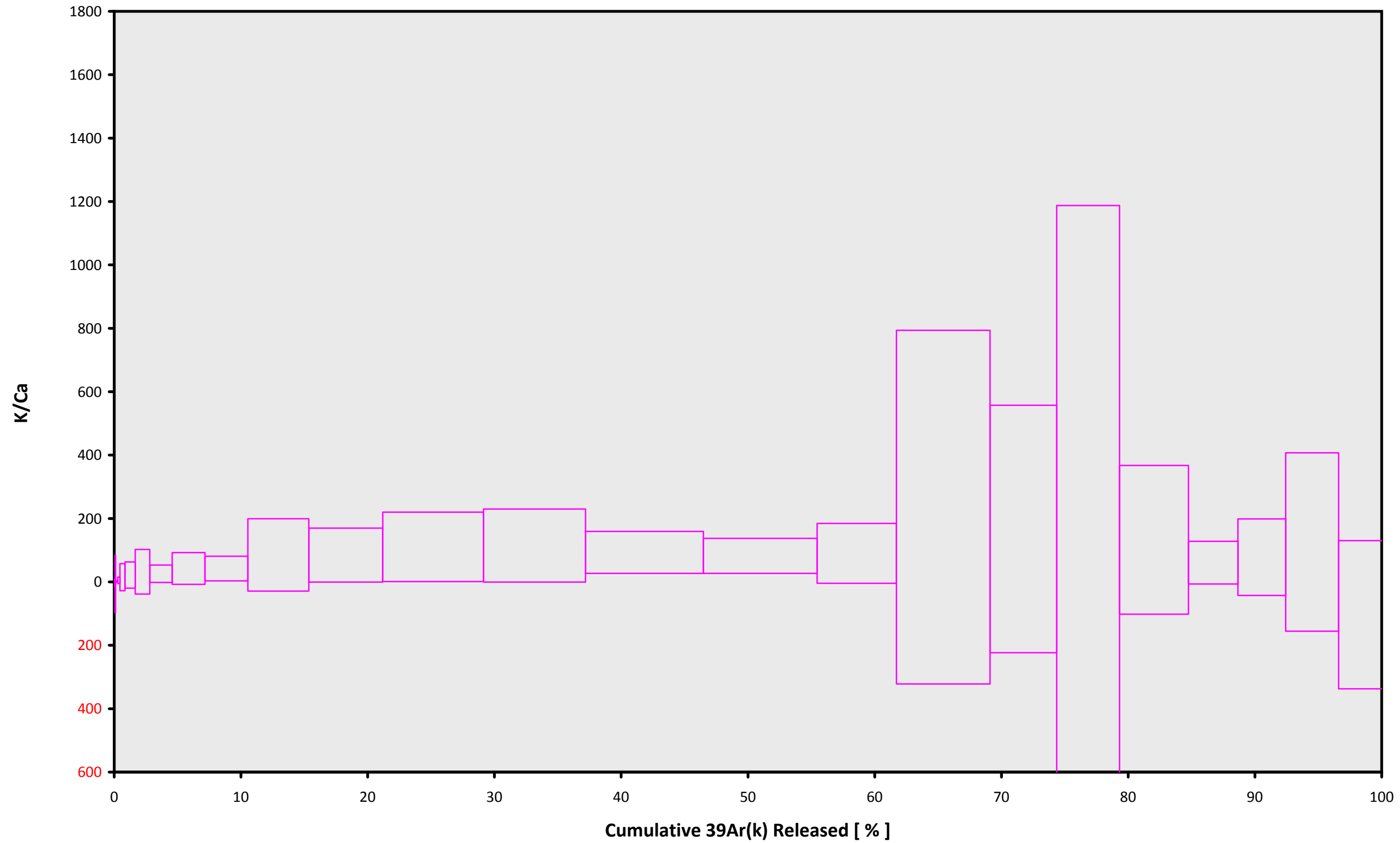
TOTAL FUSION
9.43 ± 0.03

Sample Info

Biotite
Esk Guyot
Susan Schnur

IRR = 13-OSU-05
J = 0.00173954 ± 0.00000223

13D04400.AGE >>> MV1203-D42-08 >>> WALVIS RIDGE | MV1203 (13-INT-04) PROJECT



Ar-Ages in Ma

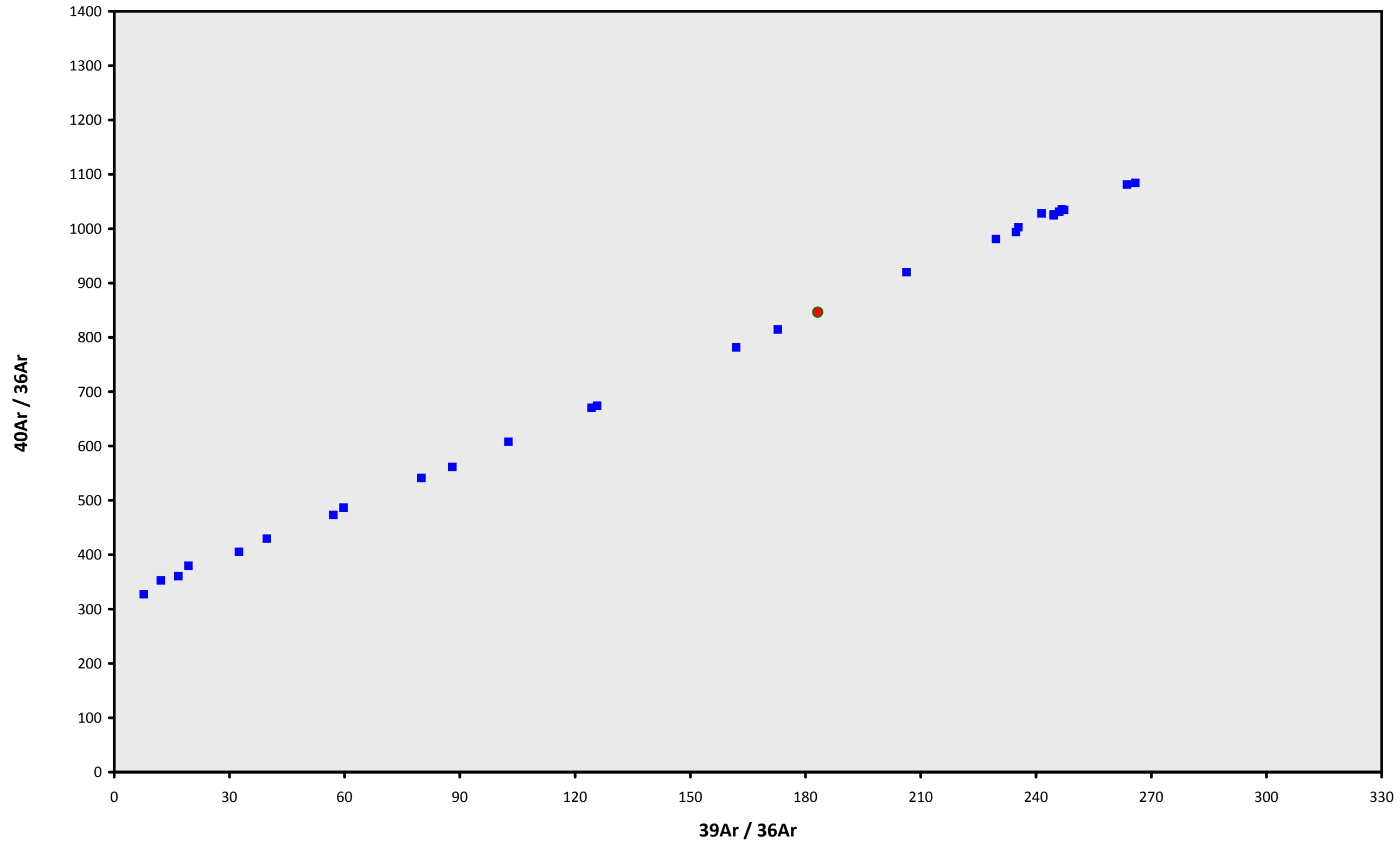
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Ar-Ages in Ma

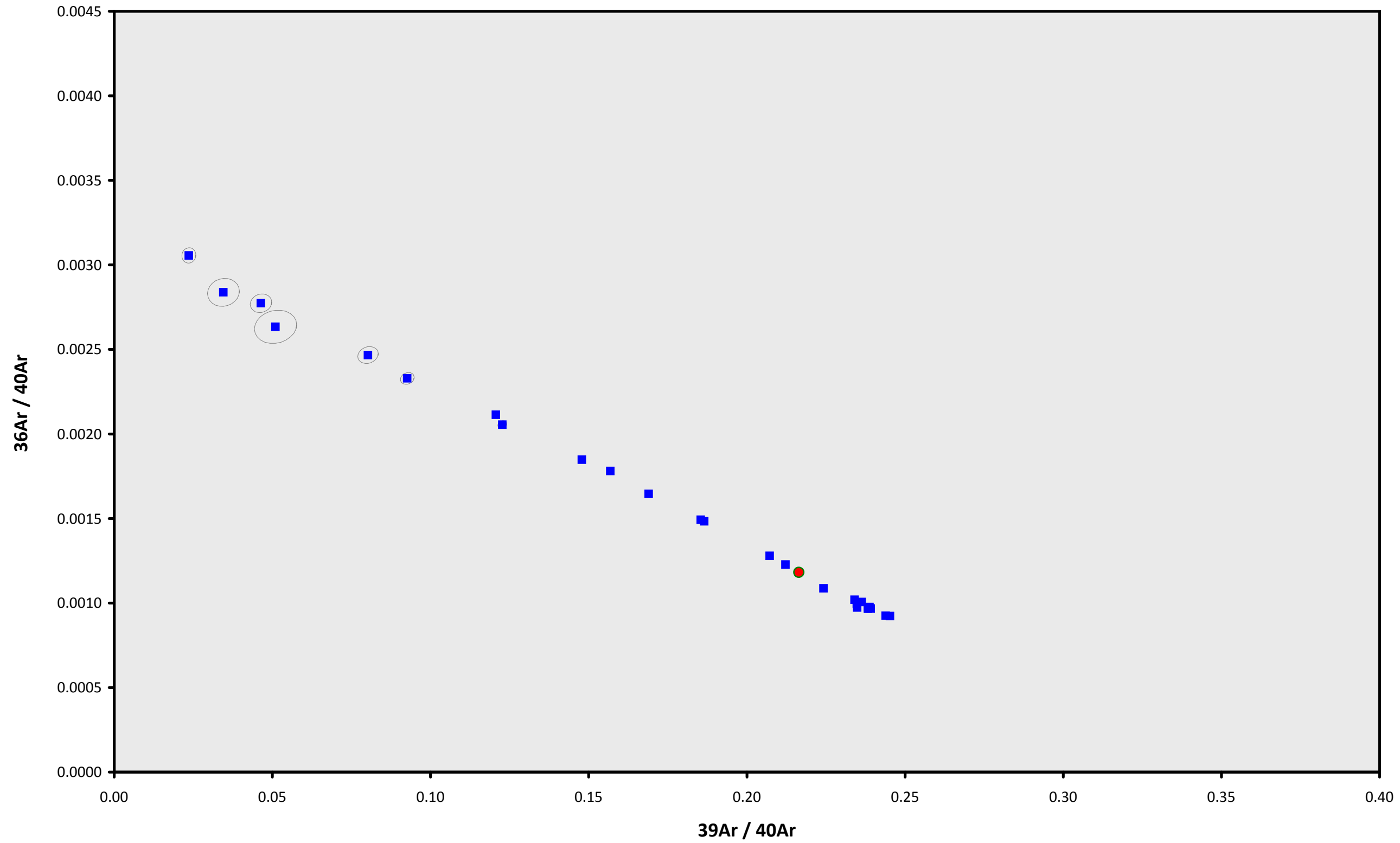
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