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
13D04551	2.8 %		0.297997	0.717	0.716068	118.135	0.131260	29.979	7.1694	0.626	129.423	0.373	5.77691 ± 0.23387	17.19 ± 0.69	32.00	0.15	4.3 ± 10.2
13D04553	3.4 %		0.118929	1.488	1.042220	77.947	0.142243	27.382	6.0666	0.713	91.089	0.530	9.23585 ± 0.27002	27.41 ± 0.80	61.50	0.12	2.5 ± 3.9
13D04554	4.0 %		0.048443	3.327	0.441800	175.265	0.152706	26.817	8.5117	0.523	92.037	0.525	9.13497 ± 0.18637	27.11 ± 0.55	84.48	0.17	8.3 ± 29.0
13D04555	4.6 %		0.094663	1.870	0.675865	116.097	0.356783	10.172	17.1321	0.263	182.795	0.264	9.03324 ± 0.09604	26.81 ± 0.28	84.66	0.35	10.9 ± 25.3
13D04557	5.2 %		0.153759	1.187	0.057941	1484.536	0.598112	6.615	33.6612	0.148	343.942	0.141	8.86747 ± 0.05057	26.32 ± 0.15	86.78	0.69	249.8 ± 7417.0
13D04558	6.0 %		0.158486	1.178	0.982179	83.532	0.780270	4.716	42.9980	0.123	420.643	0.115	8.69500 ± 0.04038	25.82 ± 0.12	88.88	0.88	18.8 ± 31.4
13D04559	6.8 %		0.248533	0.801	0.553304	150.739	1.168382	3.568	60.1803	0.100	591.353	0.082	8.60626 ± 0.03073	25.55 ± 0.09	87.58	1.23	46.8 ± 141.0
13D04561	7.6 %		0.296886	0.703	0.376630	214.447	1.576389	2.470	84.6721	0.083	813.036	0.060	8.56588 ± 0.02340	25.44 ± 0.07	89.21	1.73	96.7 ± 414.6
13D04562	8.4 %		0.477000	0.543	1.886778	41.054	2.330070	1.659	124.2153	0.074	1200.825	0.041	8.53326 ± 0.01936	25.34 ± 0.06	88.27	2.54	28.3 ± 23.2
13D04563	9.2 %		0.598181	0.473	1.845103	43.820	3.270188	1.235	171.8417	0.069	1640.962	0.030	8.52101 ± 0.01634	25.30 ± 0.05	89.23	3.51	40.0 ± 35.1
13D04565	10.0 %		0.683444	0.462	1.464896	52.684	4.206388	0.939	224.5420	0.067	2110.708	0.023	8.50065 ± 0.01481	25.24 ± 0.04	90.43	4.59	65.9 ± 69.4
13D04566	10.8 %		0.698607	0.439	2.874095	28.949	4.919980	0.793	258.4248	0.066	2400.397	0.021	8.49016 ± 0.01382	25.21 ± 0.04	91.40	5.28	38.7 ± 22.4
13D04567	11.6 %	✓	0.837878	0.403	4.016536	21.298	5.965365	0.643	314.3176	0.065	2912.966	0.017	8.48043 ± 0.01311	25.18 ± 0.04	91.51	6.42	33.6 ± 14.3
13D04569	12.4 %	✓	0.698754	0.425	6.172004	12.954	6.547065	0.611	345.5033	0.065	3134.610	0.016	8.47595 ± 0.01248	25.17 ± 0.04	93.42	7.05	24.1 ± 6.2
13D04570	13.2 %	✓	0.877837	0.396	5.965791	13.319	7.178999	0.565	378.8353	0.065	3471.058	0.014	8.47852 ± 0.01250	25.18 ± 0.04	92.53	7.74	27.3 ± 7.3
13D04571	14.0 %	✓	0.617985	0.472	4.153294	19.638	5.761323	0.698	304.1804	0.065	2759.609	0.018	8.47256 ± 0.01287	25.16 ± 0.04	93.39	6.21	31.5 ± 12.4
13D04573	14.8 %	✓	0.698733	0.432	5.073614	15.960	5.866311	0.665	311.3838	0.065	2844.172	0.017	8.47173 ± 0.01288	25.16 ± 0.04	92.75	6.36	26.4 ± 8.4
13D04574	15.6 %	✓	0.595176	0.501	6.179222	13.068	5.865865	0.688	312.2026	0.065	2820.296	0.018	8.47135 ± 0.01282	25.16 ± 0.04	93.78	6.37	21.7 ± 5.7
13D04575	16.4 %	✓	0.499087	0.530	4.540306	18.895	4.811805	0.831	253.9837	0.066	2298.104	0.022	8.46855 ± 0.01340	25.15 ± 0.04	93.59	5.19	24.1 ± 9.1
13D04577	17.2 %	✓	0.688740	0.437	4.314303	19.411	5.704950	0.705	298.6963	0.066	2732.796	0.018	8.46841 ± 0.01304	25.15 ± 0.04	92.56	6.10	29.8 ± 11.6
13D04578	18.0 %	✓	0.703861	0.462	4.930276	15.565	7.455511	0.544	394.6055	0.064	3548.226	0.014	8.46528 ± 0.01220	25.14 ± 0.04	94.14	8.06	34.4 ± 10.7
13D04579	18.8 %	✓	0.608726	0.480	4.326765	18.706	6.172982	0.643	327.8196	0.065	2954.036	0.017	8.46304 ± 0.01264	25.13 ± 0.04	93.92	6.69	32.6 ± 12.2
13D04580	19.6 %	✓	0.555947	0.495	4.637029	17.372	5.342984	0.742	283.0530	0.066	2560.283	0.019	8.46571 ± 0.01299	25.14 ± 0.04	93.59	5.78	26.2 ± 9.1
13D04582	20.4 %	✓	0.763182	0.429	4.341155	18.367	6.283789	0.644	333.3155	0.065	3047.095	0.016	8.46575 ± 0.01281	25.14 ± 0.04	92.60	6.81	33.0 ± 12.1
		Σ	12.020836	0.110	70.215445	5.667	92.589719	0.209	4897.3117	0.016	45100.461	0.005					

Information on Analysis and Constants Used in Calculations

Project = **MV1203 (13-INT-04)**
Sample = **MV1203-D40-02**
Material = **Biotite**
Location = **Dusky Guyot**
Region = **Walvis Ridge**
Analyst = **Susan Schnur**
Irradiation = **13-OSU-05**
Position = **X: | Y: | Z/H: 44.86 mm**
FCT-NM Age = **28.201 ± 0.023 Ma**
FCT-NM Reference = **Kuiper et al (2008)**
FCT-NM 40Ar/39Ar Ratio = **9.50452 ± 0.01055**
FCT-NM J-value = **0.00165368 ± 0.00000184**
Air Shot 40Ar/36Ar = **302.8320 ± 0.2907**
Air Shot MDF = **0.99393932 ± 0.00062459 (LIN)**
Experiment Type = **Incremental Heating**
Extraction Method = **Bulk Laser Heating**
Heating = **60 sec**
Isolation = **5.52 min**
Instrument = **ARGUS-VI-D**
Preferred Age = **Plateau Age**
Age Classification = **Eruption Age**
IGSN = **IESS10020**
Rock Class = **Igneous>Volcanic>Mafic**
Lithology = **Trachyandesite**
Lat-Lon = **37°55.1'S - 6°53.2'W**

Age Equations = **Min et al. (2000)**
Negative Intensities = **Allowed**
Collector Calibrations = **36Ar**
Decay 40K = **5.530 ± 0.048 E-10 1/a**
Decay 39Ar = **2.940 ± 0.016 E-07 1/h**
Decay 37Ar = **8.230 ± 0.012 E-04 1/h**
Decay 36Cl = **2.257 ± 0.015 E-06 1/a**
Decay 40K(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) = **0.0006730**
Production 38/37(ca) = **0.0001390**
Production 36/37(ca) = **0.0002640**
Production 40/39(k) = **0.001010**
Production 38/39(k) = **0.011380**
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		8.47059 ± 0.00370	**25.15 ± 0.06**	0.75	78.78	26.6 ± 2.5
		± 0.04%	**± 0.22%**	69%	12	
		Full External Error ± 0.57		1.85	2σ Confidence Limit	
		Analytical Error ± 0.01		1.0000	Error Magnification	
Total Fusion Age		8.48458 ± 0.00333	**25.20 ± 0.06**		24	30.0 ± 3.4
		± 0.04%	**± 0.22%**			
		Full External Error ± 0.57				
		Analytical Error ± 0.01				
Normal Isochron	**309.32 ± 15.35**	8.44151 ± 0.03249	**25.07 ± 0.11**	0.49	78.78	
	± 4.96%	± 0.38%	**± 0.44%**	90%	12	
		Full External Error ± 0.57		1.89	2σ Confidence Limit	
		Analytical Error ± 0.10		1.0000	Error Magnification	
				1	Number of Iterations	
				0.0000133444	Convergence	
Inverse Isochron	**309.57 ± 15.33**	8.44100 ± 0.03249	**25.07 ± 0.11**	0.49	78.78	
Clustered Points	**± 4.95%**	± 0.38%	**± 0.44%**	90%	12	
		Full External Error ± 0.57		1.89	2σ Confidence Limit	
		Analytical Error ± 0.10		1.0000	Error Magnification	
				2	Number of Iterations	
Notes				0.0001301820	Convergence	
Slight downwards slant, but age seems acceptable.				3%	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
13D04551	2.8 %		0.297808	0.716068	0.000000	7.1689	41.414	17.19 ± 0.69	32.00	0.15	4.3 ± 10.2
13D04553	3.4 %		0.118642	1.042220	0.050894	6.0659	56.024	27.41 ± 0.80	61.50	0.12	2.5 ± 3.9
13D04554	4.0 %		0.048315	0.441800	0.046755	8.5114	77.751	27.11 ± 0.55	84.48	0.17	8.3 ± 29.0
13D04555	4.6 %		0.094808	0.675865	0.144190	17.1325	154.762	26.81 ± 0.28	84.66	0.35	10.9 ± 25.3
13D04557	5.2 %		0.153700	0.057941	0.186313	33.6612	298.489	26.32 ± 0.15	86.78	0.69	249.8 ± 7417.0
13D04558	6.0 %		0.158166	0.982179	0.261263	42.9973	373.861	25.82 ± 0.12	88.88	0.88	18.8 ± 31.4
13D04559	6.8 %		0.248284	0.553304	0.437053	60.1800	517.924	25.55 ± 0.09	87.58	1.23	46.8 ± 141.0
13D04561	7.6 %		0.296655	0.376630	0.557326	84.6718	725.288	25.44 ± 0.07	89.21	1.73	96.7 ± 414.6
13D04562	8.4 %		0.476307	1.886778	0.827231	124.2140	1059.951	25.34 ± 0.06	88.27	2.54	28.3 ± 23.2
13D04563	9.2 %		0.597410	1.845103	1.202731	171.8404	1464.253	25.30 ± 0.05	89.23	3.51	40.0 ± 35.1
13D04565	10.0 %		0.682698	1.464896	1.523311	224.5410	1908.744	25.24 ± 0.04	90.43	4.59	65.9 ± 69.4
13D04566	10.8 %		0.697413	2.874095	1.848381	258.4229	2194.051	25.21 ± 0.04	91.40	5.28	38.7 ± 22.4
13D04567	11.6 %	✓	0.836292	4.016536	2.231601	314.3148	2665.525	25.18 ± 0.04	91.51	6.42	33.6 ± 14.3
13D04569	12.4 %	✓	0.696539	6.172004	2.484244	345.4991	2928.434	25.17 ± 0.04	93.42	7.05	24.1 ± 6.2
13D04570	13.2 %	✓	0.875625	5.965791	2.703416	378.8313	3211.928	25.18 ± 0.04	92.53	7.74	27.3 ± 7.3
13D04571	14.0 %	✓	0.616374	4.153294	2.184004	304.1776	2577.163	25.16 ± 0.04	93.39	6.21	31.5 ± 12.4
13D04573	14.8 %	✓	0.696877	5.073614	2.191851	311.3803	2637.931	25.16 ± 0.04	92.75	6.36	26.4 ± 8.4
13D04574	15.6 %	✓	0.593026	6.179222	2.201351	312.1985	2644.741	25.16 ± 0.04	93.78	6.37	21.7 ± 5.7
13D04575	16.4 %	✓	0.497458	4.540306	1.827899	253.9807	2150.849	25.15 ± 0.04	93.59	5.19	24.1 ± 9.1
13D04577	17.2 %	✓	0.687088	4.314303	2.176802	298.6934	2529.460	25.15 ± 0.04	92.56	6.10	29.8 ± 11.6
13D04578	18.0 %	✓	0.701891	4.930276	2.833069	394.6022	3340.418	25.14 ± 0.04	94.14	8.06	34.4 ± 10.7
13D04579	18.8 %	✓	0.607034	4.326765	2.328372	327.8167	2774.326	25.13 ± 0.04	93.92	6.69	32.6 ± 12.2
13D04580	19.6 %	✓	0.554247	4.637029	2.017643	283.0499	2396.217	25.14 ± 0.04	93.59	5.78	26.2 ± 9.1
13D04582	20.4 %	✓	0.761482	4.341155	2.347767	333.3126	2821.741	25.14 ± 0.04	92.60	6.81	33.0 ± 12.1
		Σ	11.994139	70.215445	34.613467	4897.2644	41551.246				

Information on Analysis

Project = **MV1203 (13-INT-04)**
Sample = **MV1203-D40-02**
Material = **Biotite**
Location = **Dusky Guyot**
Region = **Walvis Ridge**
Analyst = **Susan Schnur**
Irradiation = **13-OSU-05**
J = **0.00165368 ± 0.00000184**
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	8.47059	± 0.00370	**25.15**	**± 0.06**	0.75	78.78	26.6 ± 2.5
		± 0.04%		**± 0.22%**	69%	12	
		Full External Error		± 0.57	1.85	2σ Confidence Limit	
		Analytical Error		± 0.01	1.0000	Error Magnification	
Total Fusion Age	8.48458	± 0.00333	**25.20**	**± 0.06**		24	30.0 ± 3.4
		± 0.04%		**± 0.22%**			
		Full External Error		± 0.57			
		Analytical Error		± 0.01			

Normal Isochron			39(k)/36(a) ± 2σ	40(a+r)/36(a) ± 2σ	r.i.
13D04551	2.8 %		24.07 ± 0.46	434.56 ± 7.05	0.6707
13D04553	3.4 %		51.13 ± 1.70	767.71 ± 24.47	0.8519
13D04554	4.0 %		176.16 ± 11.99	1904.75 ± 129.63	0.9763
13D04555	4.6 %		180.71 ± 6.86	1927.88 ± 73.20	0.9807
13D04557	5.2 %		219.01 ± 5.28	2237.52 ± 53.92	0.9857
13D04558	6.0 %		271.85 ± 6.49	2659.23 ± 63.48	0.9901
13D04559	6.8 %		242.38 ± 3.94	2381.51 ± 38.64	0.9873
13D04561	7.6 %		285.42 ± 4.06	2740.39 ± 38.87	0.9897
13D04562	8.4 %		260.79 ± 2.87	2520.85 ± 27.55	0.9881
13D04563	9.2 %		287.64 ± 2.76	2746.50 ± 26.13	0.9876
13D04565	10.0 %		328.90 ± 3.08	3091.38 ± 28.72	0.9884
13D04566	10.8 %		370.55 ± 3.30	3441.49 ± 30.37	0.9878
13D04567	11.6 %	✓	375.84 ± 3.08	3482.81 ± 28.21	0.9865
13D04569	12.4 %	✓	496.02 ± 4.29	4499.77 ± 38.51	0.9879
13D04570	13.2 %	✓	432.64 ± 3.49	3963.65 ± 31.57	0.9864
13D04571	14.0 %	✓	493.50 ± 4.73	4476.67 ± 42.50	0.9899
13D04573	14.8 %	✓	446.82 ± 3.93	4080.86 ± 35.48	0.9881
13D04574	15.6 %	✓	526.45 ± 5.35	4755.24 ± 47.98	0.9911
13D04575	16.4 %	✓	510.56 ± 5.49	4619.18 ± 49.30	0.9915
13D04577	17.2 %	✓	434.72 ± 3.86	3976.92 ± 35.00	0.9882
13D04578	18.0 %	✓	562.20 ± 5.27	5054.67 ± 46.94	0.9901
13D04579	18.8 %	✓	540.03 ± 5.26	4865.80 ± 46.97	0.9903
13D04580	19.6 %	✓	510.69 ± 5.13	4618.87 ± 46.08	0.9907
13D04582	20.4 %	✓	437.72 ± 3.82	4001.09 ± 34.52	0.9881

Results	40(a)/36(a) ± 2σ	40(r)/39(k) ± 2σ	Age ± 2σ (Ma)	MSWD
Normal Isochron	**309.32 ± 15.35**	8.44151 ± 0.03249	**25.07 ± 0.11**	0.49
	± 4.96%	± 0.38%	**± 0.44%**	90%
			Full External Error ± 0.57	
			Analytical Error ± 0.10	

Statistics				
	2σ Confidence Limit	1.89	Convergence	0.000013344372
	Error Magnification	1.0000	Number of Iterations	1
	Number of Data Points	12	Calculated Line	Weighted York-2

Inverse Isochron			39(k)/40(a+r) ± 2σ	36(a)/40(a+r) ± 2σ	r.i.
13D04551	2.8 %		0.0553940 ± 0.0008071	0.00230116 ± 0.00003736	0.2353
13D04553	3.4 %		0.0665979 ± 0.0011842	0.00130258 ± 0.00004152	0.1985
13D04554	4.0 %		0.0924865 ± 0.0013705	0.00052500 ± 0.00003573	0.1093
13D04555	4.6 %		0.0937341 ± 0.0006994	0.00051870 ± 0.00001970	0.0986
13D04557	5.2 %		0.0978785 ± 0.0003996	0.00044692 ± 0.00001077	0.0806
13D04558	6.0 %		0.1022287 ± 0.0003442	0.00037605 ± 0.00000898	0.0661
13D04559	6.8 %		0.1017770 ± 0.0002635	0.00041990 ± 0.00000681	0.0644
13D04561	7.6 %		0.1041538 ± 0.0002129	0.00036491 ± 0.00000518	0.0495
13D04562	8.4 %		0.1034514 ± 0.0001751	0.00039669 ± 0.00000434	0.0357
13D04563	9.2 %		0.1047304 ± 0.0001579	0.00036410 ± 0.00000346	0.0251
13D04565	10.0 %		0.1063933 ± 0.0001515	0.00032348 ± 0.00000300	0.0166
13D04566	10.8 %		0.1076701 ± 0.0001496	0.00029057 ± 0.00000256	0.0141
13D04567	11.6 %	✓	0.1079137 ± 0.0001449	0.00028712 ± 0.00000233	0.0108
13D04569	12.4 %	✓	0.1102330 ± 0.0001476	0.00022223 ± 0.00000190	0.0089
13D04570	13.2 %	✓	0.1091520 ± 0.0001444	0.00025229 ± 0.00000201	0.0078
13D04571	14.0 %	✓	0.1102372 ± 0.0001495	0.00022338 ± 0.00000212	0.0102
13D04573	14.8 %	✓	0.1094922 ± 0.0001482	0.00024505 ± 0.00000213	0.0104
13D04574	15.6 %	✓	0.1107094 ± 0.0001496	0.00021029 ± 0.00000212	0.0092
13D04575	16.4 %	✓	0.1105298 ± 0.0001542	0.00021649 ± 0.00000231	0.0125
13D04577	17.2 %	✓	0.1093116 ± 0.0001487	0.00025145 ± 0.00000221	0.0111
13D04578	18.0 %	✓	0.1112236 ± 0.0001464	0.00019784 ± 0.00000184	0.0066
13D04579	18.8 %	✓	0.1109849 ± 0.0001500	0.00020552 ± 0.00000198	0.0088
13D04580	19.6 %	✓	0.1105665 ± 0.0001512	0.00021650 ± 0.00000216	0.0110
13D04582	20.4 %	✓	0.1093991 ± 0.0001468	0.00024993 ± 0.00000216	0.0093

Results	40(a)/36(a) ± 2σ	40(r)/39(k) ± 2σ	Age ± 2σ (Ma)	MSWD
Inverse Isochron	**309.57 ± 15.33**	8.44100 ± 0.03249	**25.07 ± 0.11**	0.49
Clustered Points	**± 4.95%**	± 0.38%	**± 0.44%**	90%
			Full External Error ± 0.57	
			Analytical Error ± 0.10	

Statistics				
	2σ Confidence Limit	1.89	Convergence	0.0001301820
	Error Magnification	1.0000	Number of Iterations	2
	Number of Data Points	12	Calculated Line	Weighted York-2
	Spreading Factor	2.8%		

Degassing Patterns			36Ar(a) [fA]	%1σ	36Ar(c) [fA]	%1σ	36Ar(ca) [fA]	%1σ	36Ar(cl) [fA]	%1σ	37Ar(ca) [fA]	%1σ	38Ar(a) [fA]	%1σ	38Ar(c) [fA]	%1σ	38Ar(k) [fA]	%1σ	38Ar(ca) [fA]	%1σ	38Ar(cl) [fA]	%1σ	39Ar(k) [fA]	%1σ	39Ar(ca) [fA]	%1σ	40Ar(r) [fA]	%1σ	40Ar(a) [fA]	%1σ	40Ar(c) [fA]	%1σ	40Ar(k) [fA]	%1σ
13D04551	2.8 %		0.297808	0.72	0.0000000	0.00	0.0001890	118.13	0.0000000	0.00	0.716068	118.13	0.0556603	0.72	0.0000000	0.00	0.081582	0.63	0.0000995	118.13	0.000000	0.00	7.1689	0.63	0.0004819	118.13	41.414	1.93	88.0022	0.72	0.0000000	0.00	0.0072406	0.63
13D04553	3.4 %		0.118642	1.50	0.0000000	0.00	0.0002751	77.95	0.0000120	76.55	1.042220	77.95	0.0221742	1.50	0.0000000	0.00	0.069030	0.71	0.0001449	77.95	0.050894	76.55	6.0659	0.71	0.0007014	77.95	56.024	1.28	35.0588	1.50	0.0000000	0.00	0.0061266	0.71
13D04554	4.0 %		0.048315	3.36	0.0000000	0.00	0.0001166	175.26	0.0000110	87.60	0.441800	175.26	0.0090301	3.36	0.0000000	0.00	0.096860	0.52	0.0000614	175.26	0.046755	87.61	8.5114	0.52	0.0002973	175.26	77.751	0.88	14.2771	3.36	0.0000000	0.00	0.0085965	0.52
13D04555	4.6 %		0.094808	1.88	0.0000000	0.00	0.0001784	116.10	0.0000340	25.19	0.675865	116.10	0.0177195	1.88	0.0000000	0.00	0.194968	0.26	0.0000939	116.10	0.144190	25.21	17.1325	0.26	0.0004549	116.10	154.762	0.46	28.0156	1.88	0.0000000	0.00	0.0173038	0.26
13D04557	5.2 %		0.153700	1.20	0.0000000	0.00	0.0000153	######	0.0000439	21.26	0.057941	######	0.0287265	1.20	0.0000000	0.00	0.383064	0.15	0.0000081	######	0.186313	21.28	33.6612	0.15	0.0000390	######	298.489	0.24	45.4184	1.20	0.0000000	0.00	0.0339978	0.15
13D04558	6.0 %		0.158166	1.19	0.0000000	0.00	0.0002593	83.53	0.0000615	14.12	0.982179	83.53	0.0295612	1.19	0.0000000	0.00	0.489309	0.12	0.0001365	83.53	0.261263	14.15	42.9973	0.12	0.0006610	83.53	373.861	0.20	46.7379	1.19	0.0000000	0.00	0.0434273	0.12
13D04559	6.8 %		0.248284	0.81	0.0000000	0.00	0.0001461	150.74	0.0001029	9.59	0.553304	150.74	0.0464044	0.81	0.0000000	0.00	0.684848	0.10	0.0000769	150.74	0.437053	9.63	60.1800	0.10	0.0003724	150.74	517.924	0.15	73.3680	0.81	0.0000000	0.00	0.0607818	0.10
13D04561	7.6 %		0.296655	0.71	0.0000000	0.00	0.0000994	214.45	0.0001313	7.05	0.376630	214.45	0.0554449	0.71	0.0000000	0.00	0.963565	0.08	0.0000524	214.45	0.557326	7.11	84.6718	0.08	0.0002535	214.45	725.288	0.11	87.6616	0.71	0.0000000	0.00	0.0855185	0.08
13D04562	8.4 %		0.476307	0.55	0.0000000	0.00	0.0004981	41.05	0.0001949	4.77	1.886778	41.05	0.0890218	0.55	0.0000000	0.00	1.413555	0.07	0.0002623	41.05	0.827231	4.85	124.2140	0.07	0.0012698	41.05	1059.951	0.09	140.7487	0.55	0.0000000	0.00	0.1254561	0.07
13D04563	9.2 %		0.597410	0.47	0.0000000	0.00	0.0004871	43.82	0.0002834	3.48	1.845103	43.82	0.1116560	0.47	0.0000000	0.00	1.955544	0.07	0.0002565	43.82	1.202731	3.60	171.8404	0.07	0.0012418	43.82	1464.253	0.07	176.5348	0.47	0.0000000	0.00	0.1735588	0.07
13D04565	10.0 %		0.682698	0.46	0.0000000	0.00	0.0003867	52.68	0.0003589	2.75	1.464896	52.68	0.1275962	0.46	0.0000000	0.00	2.555277	0.07	0.0002036	52.68	1.523311	2.90	224.5410	0.07	0.0009859	52.68	1908.744	0.06	201.7372	0.46	0.0000000	0.00	0.2267865	0.07
13D04566	10.8 %		0.697413	0.44	0.0000000	0.00	0.0007588	28.95	0.0004356	2.30	2.874095	28.95	0.1303465	0.44	0.0000000	0.00	2.940853	0.07	0.0003995	28.95	1.848381	2.48	258.4229	0.07	0.0019343	28.95	2194.051	0.05	206.0855	0.44	0.0000000	0.00	0.2610071	0.07
13D04567	11.6 %	✓	0.836292	0.40	0.0000000	0.00	0.0010604	21.30	0.0005259	1.95	4.016536	21.30	0.1563029	0.40	0.0000000	0.00	3.576903	0.06	0.0005583	21.30	2.231601	2.16	314.3148	0.06	0.0027031	21.30	2665.525	0.04	247.1242	0.40	0.0000000	0.00	0.3174580	0.06
13D04569	12.4 %	✓	0.696539	0.43	0.0000000	0.00	0.0016294	12.95	0.0005855	1.86	6.172004	12.95	0.1301831	0.43	0.0000000	0.00	3.931780	0.07	0.0008579	12.95	2.484244	2.07	345.4991	0.07	0.0041538	12.95	2928.434	0.03	205.8272	0.43	0.0000000	0.00	0.3489541	0.07
13D04570	13.2 %	✓	0.875625	0.40	0.0000000	0.00	0.0015750	13.32	0.0006372	1.76	5.965791	13.32	0.1636544	0.40	0.0000000	0.00	4.311100	0.06	0.0008292	13.32	2.703416	1.99	378.8313	0.06	0.0040150	13.32	3211.928	0.04	258.7472	0.40	0.0000000	0.00	0.3826196	0.06
13D04571	14.0 %	✓	0.616374	0.47	0.0000000	0.00	0.0010965	19.64	0.0005148	2.06	4.153294	19.64	0.1152003	0.47	0.0000000	0.00	3.461541	0.07	0.0005773	19.64	2.184004	2.26	304.1776	0.07	0.0027952	19.64	2577.163	0.04	182.1385	0.47	0.0000000	0.00	0.3072194	0.07
13D04573	14.8 %	✓	0.696877	0.43	0.0000000	0.00	0.0013394	15.96	0.0005167	2.01	5.073614	15.96	0.1302464	0.43	0.0000000	0.00	3.543508	0.07	0.0007052	15.96	2.191851	2.21	311.3803	0.07	0.0034145	15.96	2637.931	0.04	205.9272	0.43	0.0000000	0.00	0.3144941	0.07
13D04574	15.6 %	✓	0.593026	0.50	0.0000000	0.00	0.0016313	13.07	0.0005190	2.05	6.179222	13.07	0.1108366	0.50	0.0000000	0.00	3.552818	0.07	0.0008589	13.07	2.201351	2.25	312.1985	0.07	0.0041586	13.07	2644.741	0.04	175.2392	0.50	0.0000000	0.00	0.3153204	0.07
13D04575	16.4 %	✓	0.497458	0.53	0.0000000	0.00	0.0011986	18.90	0.0004310	2.38	4.540306	18.90	0.0929748	0.53	0.0000000	0.00	2.890300	0.07	0.0006311	18.90	1.827899	2.55	253.9807	0.07	0.0030556	18.90	2150.849	0.04	146.9987	0.53	0.0000000	0.00	0.2565205	0.07
13D04577	17.2 %	✓	0.687088	0.44	0.0000000	0.00	0.0011390	19.41	0.0005133	2.07	4.314303	19.41	0.1284167	0.44	0.0000000	0.00	3.399131	0.07	0.0005997	19.41	2.176802	2.26	298.6934	0.07	0.0029035	19.41	2529.460	0.04	203.0345	0.44	0.0000000	0.00	0.3016803	0.07
13D04578	18.0 %	✓	0.701891	0.46	0.0000000	0.00	0.0013016	15.57	0.0006681	1.71	4.930276	15.57	0.1311835	0.46	0.0000000	0.00	4.490573	0.06	0.0006853	15.57	2.833069	1.94	394.6022	0.06	0.0033181	15.57	3340.418	0.03	207.4089	0.46	0.0000000	0.00	0.3985482	0.06
13D04579	18.8 %	✓	0.607034	0.48	0.0000000	0.00	0.0011423	18.71	0.0005491	1.94	4.326765	18.71	0.1134547	0.48	0.0000000	0.00	3.730554	0.07	0.0006014	18.71	2.328372	2.15	327.8167	0.07	0.0029119	18.71	2774.326	0.04	179.3786	0.48	0.0000000	0.00	0.3310949	0.07
13D04580	19.6 %	✓	0.554247	0.50	0.0000000	0.00	0.0012242	17.37	0.0004758	2.17	4.637029	17.37	0.1035888	0.50	0.0000000	0.00	3.221107	0.07	0.0006445	17.37	2.017643	2.36	283.0499	0.07	0.0031207	17.37	2396.217	0.04	163.7801	0.50	0.0000000	0.00	0.2858804	0.07
13D04582	20.4 %	✓	0.761482	0.43	0.0000000	0.00	0.0011461	18.37	0.0005538	1.96	4.341155	18.37	0.1423209	0.43	0.0000000	0.00	3.793097	0.07	0.0006034	18.37	2.347767	2.16	333.3126	0.07	0.0029216	18.37	2821.741	0.04	225.0178	0.43	0.0000000	0.00	0.3366457	0.07
		Σ	11.994139	0.11	0.0000000	0.00	0.0185369	5.67	0.0081593	0.59	70.215445	5.67	2.2417047	0.11	0.0000000	0.00	55.730869	0.02	0.0097599	5.67	34.613467	0.64	4897.2644	0.02	0.0472550	5.67	41551.246	0.01	3544.2682	0.11	0.0000000	0.00	4.9462371	0.02
		Σ							12.020836	0.11	70.215445	5.67									92.595801	0.24			4897.3117	0.02							45100.461	0.01

Additional Parameters			40Ar/39Ar	1σ	37Ar/39Ar	1σ	36Ar/39Ar	1σ	Time (days)	37Ar (decay)	39Ar (decay)	40Ar (moles)
13D04551	2.8 %		18.052304	0.131503	0.099879	0.117994	0.041565	0.000395	144.972	17.565896	1.00102433	6.212E-12
13D04553	3.4 %		15.014760	0.133466	0.171796	0.133916	0.019604	0.000324	144.990	17.571921	1.00102445	4.372E-12
13D04554	4.0 %		10.813018	0.080105	0.051905	0.090972	0.005691	0.000192	144.998	17.574814	1.00102451	4.418E-12
13D04555	4.6 %		10.669770	0.039803	0.039450	0.045801	0.005525	0.000104	145.007	17.577948	1.00102458	8.774E-12
13D04557	5.2 %		10.217747	0.020857	0.001721	0.025553	0.004568	0.000055	145.024	17.583977	1.00102470	1.651E-11
13D04558	6.0 %		9.782853	0.016470	0.022842	0.019081	0.003686	0.000044	145.033	17.586871	1.00102476	2.019E-11
13D04559	6.8 %		9.826350	0.012718	0.009194	0.013859	0.004130	0.000033	145.041	17.589766	1.00102482	2.838E-11
13D04561	7.6 %		9.602168	0.009812	0.004448	0.009539	0.003506	0.000025	145.058	17.595799	1.00102494	3.903E-11
13D04562	8.4 %		9.667289	0.008183	0.015190	0.006236	0.003840	0.000021	145.067	17.598937	1.00102500	5.764E-11
13D04563	9.2 %		9.549264	0.007198	0.010737	0.004705	0.003481	0.000017	145.076	17.601834	1.00102506	7.877E-11
13D04565	10.0 %		9.400059	0.006691	0.006524	0.003437	0.003044	0.000014	145.093	17.607871	1.00102518	1.013E-10
13D04566	10.8 %		9.288570	0.006453	0.011122	0.003220	0.002703	0.000012	145.101	17.610769	1.00102524	1.152E-10
13D04567	11.6 %	✓	9.267590	0.006224	0.012779	0.002722	0.002666	0.000011	145.110	17.613910	1.00102531	1.398E-10
13D04569	12.4 %	✓	9.072591	0.006074	0.017864	0.002314	0.002022	0.000009	145.128	17.619951	1.00102543	1.505E-10
13D04570	13.2 %	✓	9.162446	0.006060	0.015748	0.002097	0.002317	0.000009	145.136	17.622852	1.00102549	1.666E-10
13D04571	14.0 %	✓	9.072276	0.006153	0.013654	0.002681	0.002032	0.000010	145.145	17.625994	1.00102555	1.325E-10
13D04573	14.8 %	✓	9.133978	0.006183	0.016294	0.002601	0.002244	0.000010	145.162	17.631798	1.00102567	1.365E-10
13D04574	15.6 %	✓	9.033544	0.006103	0.019792	0.002587	0.001906	0.000010	145.171	17.634942	1.00102573	1.354E-10
13D04575	16.4 %	✓	9.048233	0.006310	0.017876	0.003378	0.001965	0.000010	145.179	17.637845	1.00102579	1.103E-10
13D04577	17.2 %	✓	9.149077	0.006223	0.014444	0.002804	0.002306	0.000010	145.197	17.643894	1.00102591	1.312E-10
13D04578	18.0 %	✓	8.991830	0.005919	0.012494	0.001945	0.001784	0.000008	145.205	17.646799	1.00102597	1.703E-10
13D04579	18.8 %	✓	9.011163	0.006090	0.013199	0.002469	0.001857	0.000009	145.214	17.649946	1.00102604	1.418E-10
13D04580	19.6 %	✓	9.045244	0.006185	0.016382	0.002846	0.001964	0.000010	145.222	17.652851	1.00102610	1.229E-10
13D04582	20.4 %	✓	9.141775	0.006133	0.013024	0.002392	0.002290	0.000010	145.240	17.658906	1.00102622	1.463E-10

Procedure Blanks		36Ar ± 1σ (SE) [fA]	37Ar ± 1σ (SE) [fA]	38Ar ± 1σ (SE) [fA]	39Ar ± 1σ (SE) [fA]	40Ar ± 1σ (SE) [fA]
13D04551	2.8 %	0.0218631 ± 0.0014594	0.0320626 ± 0.0325157	0.0001579 ± 0.0266234	0.1525938 ± 0.0341790	6.790930 ± 0.481576
13D04553	3.4 %	0.0208809 ± 0.0014594	0.0323816 ± 0.0325157	0.0014153 ± 0.0266234	0.0950154 ± 0.0341790	6.318681 ± 0.481576
13D04554	4.0 %	0.0203246 ± 0.0014594	0.0325347 ± 0.0325157	0.0021705 ± 0.0266234	0.0737634 ± 0.0341790	6.070267 ± 0.481576
13D04555	4.6 %	0.0197271 ± 0.0014594	0.0327005 ± 0.0325157	0.0029886 ± 0.0266234	0.0551801 ± 0.0341790	5.809308 ± 0.481576
13D04557	5.2 %	0.0187589 ± 0.0014594	0.0330194 ± 0.0325157	0.0045619 ± 0.0266234	0.0316619 ± 0.0341790	5.390397 ± 0.481576
13D04558	6.0 %	0.0184441 ± 0.0014594	0.0331725 ± 0.0325157	0.0053170 ± 0.0266234	0.0257009 ± 0.0341790	5.251343 ± 0.481576
13D04559	6.8 %	0.0182605 ± 0.0014594	0.0333256 ± 0.0325157	0.0060722 ± 0.0266234	0.0229342 ± 0.0341790	5.164544 ± 0.481576
13D04561	7.6 %	0.0183789 ± 0.0014594	0.0336446 ± 0.0325157	0.0076454 ± 0.0266234	0.0265205 ± 0.0341790	5.179551 ± 0.481576
13D04562	8.4 %	0.0187379 ± 0.0014594	0.0338104 ± 0.0325157	0.0084635 ± 0.0266234	0.0328520 ± 0.0341790	5.302364 ± 0.481576
13D04563	9.2 %	0.0192600 ± 0.0014594	0.0339635 ± 0.0325157	0.0092187 ± 0.0266234	0.0410698 ± 0.0341790	5.488962 ± 0.481576
13D04565	10.0 %	0.0209366 ± 0.0014594	0.0342824 ± 0.0325157	0.0107920 ± 0.0266234	0.0643904 ± 0.0341790	6.102990 ± 0.481576
13D04566	10.8 %	0.0220125 ± 0.0014594	0.0344355 ± 0.0325157	0.0115471 ± 0.0266234	0.0780069 ± 0.0341790	6.501349 ± 0.481576
13D04567	11.6 %	0.0233592 ± 0.0014594	0.0346014 ± 0.0325157	0.0123652 ± 0.0266234	0.0940973 ± 0.0341790	7.002205 ± 0.481576
13D04569	12.4 %	0.0263964 ± 0.0014594	0.0349203 ± 0.0325157	0.0139385 ± 0.0266234	0.1276123 ± 0.0341790	8.137537 ± 0.481576
13D04570	13.2 %	0.0280130 ± 0.0014594	0.0350734 ± 0.0325157	0.0146937 ± 0.0266234	0.1442457 ± 0.0341790	8.744384 ± 0.481576
13D04571	14.0 %	0.0298347 ± 0.0014594	0.0352393 ± 0.0325157	0.0155118 ± 0.0266234	0.1621638 ± 0.0341790	9.430275 ± 0.481576
13D04573	14.8 %	0.0332394 ± 0.0014594	0.0355454 ± 0.0325157	0.0170221 ± 0.0266234	0.1935580 ± 0.0341790	10.719091 ± 0.481576
13D04574	15.6 %	0.0350097 ± 0.0014594	0.0357113 ± 0.0325157	0.0178402 ± 0.0266234	0.2088410 ± 0.0341790	11.394170 ± 0.481576
13D04575	16.4 %	0.0365308 ± 0.0014594	0.0358644 ± 0.0325157	0.0185953 ± 0.0266234	0.2213609 ± 0.0341790	11.978530 ± 0.481576
13D04577	17.2 %	0.0391109 ± 0.0014594	0.0361833 ± 0.0325157	0.0201686 ± 0.0266234	0.2408632 ± 0.0341790	12.988677 ± 0.481576
13D04578	18.0 %	0.0399418 ± 0.0014594	0.0363364 ± 0.0325157	0.0209238 ± 0.0266234	0.2462448 ± 0.0341790	13.328552 ± 0.481576
13D04579	18.8 %	0.0404416 ± 0.0014594	0.0365023 ± 0.0325157	0.0217419 ± 0.0266234	0.2485279 ± 0.0341790	13.553444 ± 0.481576
13D04580	19.6 %	0.0404575 ± 0.0014594	0.0366554 ± 0.0325157	0.0224970 ± 0.0266234	0.2469142 ± 0.0341790	13.601185 ± 0.481576
13D04582	20.4 %	0.0387766 ± 0.0014594	0.0369743 ± 0.0325157	0.0240703 ± 0.0266234	0.2301560 ± 0.0341790	13.083834 ± 0.481576

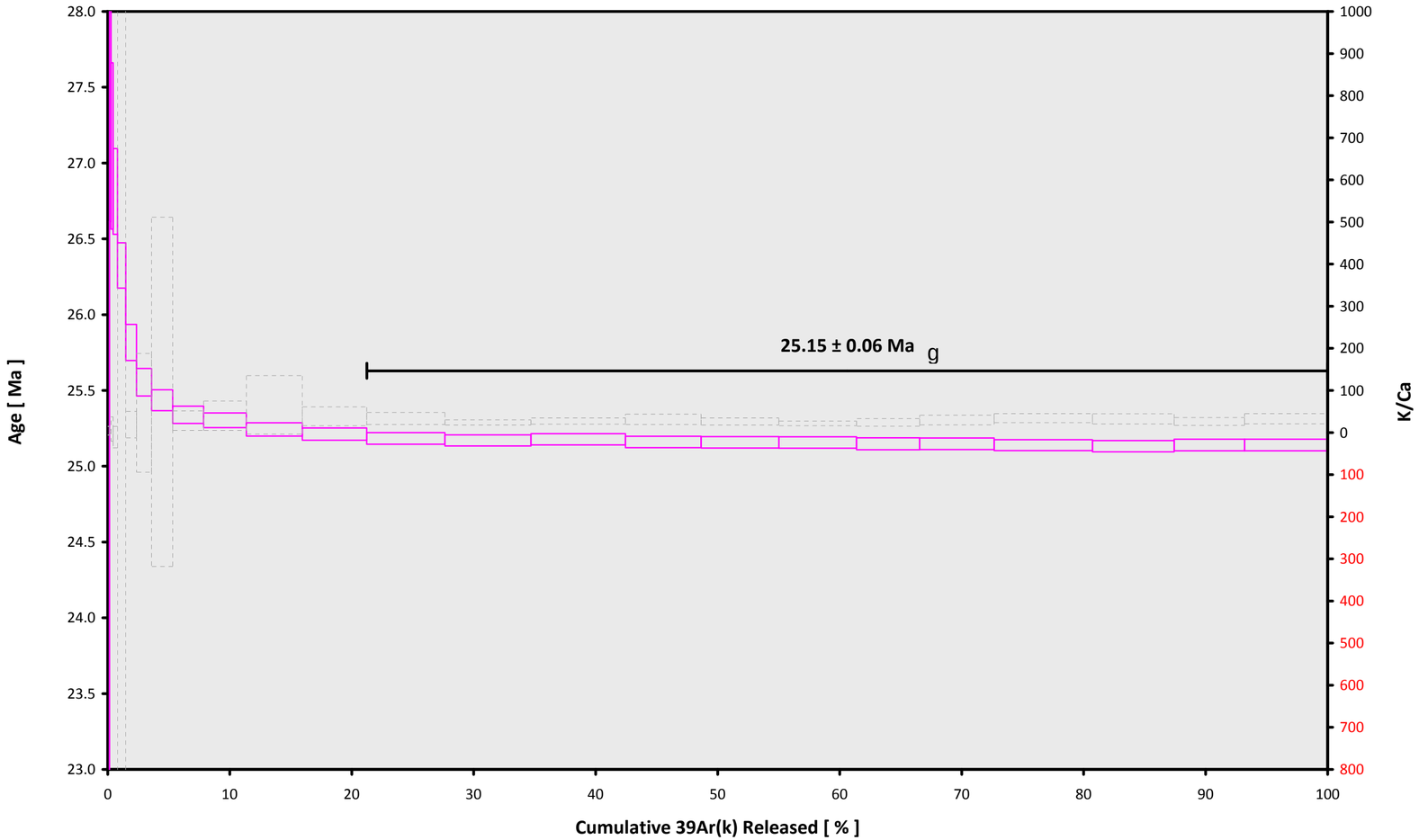
Intercept Values		36Ar ± 1σ (SE) [fA]	r2	Regression (type,n)	37Ar ± 1σ (SE) [fA]	r2	Regression (type,n)	38Ar ± 1σ (SE) [fA]	r2	Regression (type,n)	39Ar ± 1σ (SE) [fA]	r2	Regression (type,n)	40Ar ± 1σ (SE) [fA]	r2	Regression (type,n)
13D04551	2.8 %	0.3118698 ± 0.0012801	0.6725	EXP 150 of 150	0.0720872 ± 0.0343276	0.0018	EXP 150 of 150	0.1298272 ± 0.0283250	0.0107	EXP 150 of 150	7.27129 ± 0.02821	0.6848	EXP 150 of 150	136.2143 ± 0.0337	0.9971	EXP 150 of 150
13D04553	3.4 %	0.1366215 ± 0.0008658	0.1033	EXP 150 of 150	0.0906164 ± 0.0316724	0.0207	EXP 150 of 150	0.1391039 ± 0.0277784	0.0037	EXP 150 of 150	6.11877 ± 0.02577	0.6202	EXP 150 of 150	97.4076 ± 0.0375	0.9910	EXP 150 of 150
13D04554	4.0 %	0.0674686 ± 0.0005613	0.0005	EXP 149 of 150	0.0572165 ± 0.0285310	0.0012	EXP 150 of 150	0.1486845 ± 0.0304587	0.0000	EXP 150 of 150	8.52530 ± 0.02751	0.7664	EXP 150 of 150	98.1072 ± 0.0370	0.9917	EXP 150 of 150
13D04555	4.6 %	0.1118520 ± 0.0008847	0.0178	EXP 150 of 150	0.0050511 ± 0.0293876	0.0096	EXP 150 of 150	0.3494706 ± 0.0240057	0.0314	EXP 150 of 150	17.06618 ± 0.02691	0.9420	EXP 150 of 150	188.6044 ± 0.0376	0.9987	EXP 150 of 150
13D04557	5.2 %	0.1683955 ± 0.0009372	0.2215	EXP 150 of 150	0.0362547 ± 0.0353484	0.0082	EXP 150 of 150	0.5863014 ± 0.0286083	0.0012	EXP 150 of 150	33.45499 ± 0.02884	0.9835	EXP 150 of 150	349.3320 ± 0.0516	0.9994	EXP 150 of 150
13D04558	6.0 %	0.1726811 ± 0.0010068	0.1282	EXP 150 of 150	0.0880059 ± 0.0322589	0.0077	EXP 150 of 150	0.7654970 ± 0.0247270	0.0353	EXP 150 of 150	42.71981 ± 0.02936	0.9894	EXP 150 of 150	425.8940 ± 0.0540	0.9996	EXP 150 of 150
13D04559	6.8 %	0.2601301 ± 0.0011157	0.4897	EXP 150 of 150	0.0642105 ± 0.0333186	0.0022	EXP 150 of 150	1.1481502 ± 0.0313884	0.0552	EXP 150 of 150	59.77801 ± 0.03155	0.9937	EXP 150 of 150	596.5177 ± 0.0665	0.9997	EXP 150 of 150
13D04561	7.6 %	0.3073045 ± 0.0012017	0.4656	EXP 149 of 150	0.0546605 ± 0.0312065	0.0000	EXP 150 of 150	1.5496386 ± 0.0276866	0.0977	EXP 150 of 150	84.10025 ± 0.02999	0.9971	EXP 150 of 150	818.2151 ± 0.0708	0.9998	EXP 150 of 150
13D04562	8.4 %	0.4829482 ± 0.0016744	0.6335	EXP 150 of 150	0.1390738 ± 0.0284603	0.0100	EXP 150 of 150	2.2933679 ± 0.0272332	0.1428	EXP 150 of 150	123.37032 ± 0.03514	0.9982	EXP 150 of 150	1206.1272 ± 0.0788	0.9999	EXP 150 of 150
13D04563	9.2 %	0.6014021 ± 0.0017965	0.7133	EXP 150 of 150	0.1368848 ± 0.0312490	0.0065	EXP 150 of 150	3.2213368 ± 0.0294519	0.2937	EXP 150 of 150	170.66837 ± 0.03608	0.9990	EXP 150 of 150	1646.4506 ± 0.1024	0.9999	EXP 150 of 150
13D04565	10.0 %	0.6860552 ± 0.0021063	0.6270	EXP 150 of 150	0.1159675 ± 0.0281886	0.0608	EXP 150 of 150	4.1446177 ± 0.0280306	0.4450	EXP 150 of 150	223.01960 ± 0.04170	0.9992	EXP 150 of 150	2116.8113 ± 0.1104	0.9999	EXP 150 of 150
13D04566	10.8 %	0.7018881 ± 0.0019370	0.6996	EXP 150 of 150	0.1946735 ± 0.0330757	0.0007	EXP 150 of 150	4.8488064 ± 0.0271527	0.5358	EXP 150 of 150	256.67656 ± 0.04313	0.9994	EXP 150 of 150	2406.8985 ± 0.1303	0.9999	EXP 150 of 150
13D04567	11.6 %	0.8387713 ± 0.0020781	0.7356	EXP 149 of 150	0.2584934 ± 0.0348628	0.0007	EXP 150 of 150	5.8807039 ± 0.0259420	0.6278	EXP 150 of 150	312.19035 ± 0.03986	0.9996	EXP 150 of 150	2919.9685 ± 0.1300	1.0000	EXP 150 of 150
13D04569	12.4 %	0.7064145 ± 0.0017905	0.5480	EXP 150 of 150	0.3788457 ± 0.0304164	0.0048	EXP 150 of 150	6.4537810 ± 0.0280051	0.6485	EXP 150 of 150	343.18914 ± 0.04769	0.9996	EXP 150 of 150	3142.7474 ± 0.1413	1.0000	EXP 150 of 150
13D04570	13.2 %	0.8823132 ± 0.0021341	0.6903	EXP 150 of 150	0.3674532 ± 0.0300027	0.0106	EXP 150 of 150	7.0773015 ± 0.0285258	0.6747	EXP 150 of 150	376.30221 ± 0.04633	0.9997	EXP 150 of 150	3479.8023 ± 0.1307	1.0000	EXP 150 of 150
13D04571	14.0 %	0.6312501 ± 0.0018858	0.4339	EXP 150 of 150	0.2665958 ± 0.0317146	0.0008	EXP 150 of 150	5.6759880 ± 0.0285593	0.5739	EXP 150 of 150	302.19286 ± 0.04351	0.9995	EXP 150 of 150	2769.0389 ± 0.1386	0.9999	EXP 150 of 150
13D04573	14.8 %	0.7132379 ± 0.0018660	0.6693	EXP 150 of 150	0.3180748 ± 0.0312165	0.0102	EXP 150 of 150	5.7781937 ± 0.0268456	0.6151	EXP 150 of 150	309.37664 ± 0.04584	0.9995	EXP 150 of 150	2854.8916 ± 0.1242	1.0000	EXP 150 of 150
13D04574	15.6 %	0.6142279 ± 0.0020248	0.3796	EXP 150 of 150	0.3797462 ± 0.0310111	0.0053	EXP 150 of 150	5.7769345 ± 0.0287686	0.5824	EXP 149 of 150	310.20497 ± 0.04328	0.9996	EXP 150 of 150	2831.6901 ± 0.1324	1.0000	EXP 150 of 150
13D04575	16.4 %	0.5222361 ± 0.0017153	0.4047	EXP 150 of 150	0.2886093 ± 0.0349583	0.0137	EXP 150 of 150	4.7348938 ± 0.0285732	0.5105	EXP 150 of 150	252.41005 ± 0.04237	0.9994	EXP 150 of 150	2310.0824 ± 0.1149	0.9999	EXP 150 of 150
13D04577	17.2 %	0.7093842 ± 0.0018784	0.5838	EXP 150 of 150	0.2762650 ± 0.0333680	0.0012	EXP 150 of 150	5.6156412 ± 0.0285898	0.5927	EXP 150 of 150	296.82610 ± 0.04484	0.9995	EXP 150 of 150	2745.7844 ± 0.1248	1.0000	EXP 150 of 150
13D04578	18.0 %	0.7249305 ± 0.0021935	0.4249	EXP 150 of 150	0.3106505 ± 0.0276458	0.0245	EXP 150 of 150	7.3442320 ± 0.0284821	0.6861	EXP 150 of 150	392.06281 ± 0.04320	0.9997	EXP 150 of 150	3561.5544 ± 0.1476	1.0000	EXP 150 of 150
13D04579	18.8 %	0.6328455 ± 0.0019109	0.4089	EXP 150 of 150	0.2771948 ± 0.0311224	0.0032	EXP 150 of 150	6.0764286 ± 0.0277304	0.5881	EXP 150 of 150	325.75120 ± 0.05007	0.9995	EXP 150 of 150	2967.5896 ± 0.1354	1.0000	EXP 150 of 150
13D04580	19.6 %	0.5814984 ± 0.0017721	0.4480	EXP 150 of 150	0.2945651 ± 0.0308022	0.0042	EXP 150 of 150	5.2557338 ± 0.0279201	0.5101	EXP 150 of 150	281.29933 ± 0.04156	0.9995	EXP 150 of 150	2573.8844 ± 0.1166	1.0000	EXP 150 of 150
13D04582	20.4 %	0.7814951 ± 0.0021034	0.6056	EXP 150 of 150	0.2783448 ± 0.0301159	0.0001	EXP 150 of 150	6.1835640 ± 0.0287524	0.6044	EXP 150 of 150	331.18981 ± 0.04588	0.9996	EXP 150 of 150	3060.1792 ± 0.1301	1.0000	EXP 150 of 150

Project Info		Analyst	Irradiation	X-pos	Y-pos	Z/H-pos	Project	Experiment	Nmb
13D04551	2.8 %	Susan Schnur	13-OSU-05			44.86	Walvis Ridge\MV1203 (13-INT-04)	13D04550	01
13D04553	3.4 %	Susan Schnur	13-OSU-05			44.86	Walvis Ridge\MV1203 (13-INT-04)	13D04550	01
13D04554	4.0 %	Susan Schnur	13-OSU-05			44.86	Walvis Ridge\MV1203 (13-INT-04)	13D04550	01
13D04555	4.6 %	Susan Schnur	13-OSU-05			44.86	Walvis Ridge\MV1203 (13-INT-04)	13D04550	01
13D04557	5.2 %	Susan Schnur	13-OSU-05			44.86	Walvis Ridge\MV1203 (13-INT-04)	13D04550	01
13D04558	6.0 %	Susan Schnur	13-OSU-05			44.86	Walvis Ridge\MV1203 (13-INT-04)	13D04550	01
13D04559	6.8 %	Susan Schnur	13-OSU-05			44.86	Walvis Ridge\MV1203 (13-INT-04)	13D04550	01
13D04561	7.6 %	Susan Schnur	13-OSU-05			44.86	Walvis Ridge\MV1203 (13-INT-04)	13D04550	01
13D04562	8.4 %	Susan Schnur	13-OSU-05			44.86	Walvis Ridge\MV1203 (13-INT-04)	13D04550	01
13D04563	9.2 %	Susan Schnur	13-OSU-05			44.86	Walvis Ridge\MV1203 (13-INT-04)	13D04550	01
13D04565	10.0 %	Susan Schnur	13-OSU-05			44.86	Walvis Ridge\MV1203 (13-INT-04)	13D04550	01
13D04566	10.8 %	Susan Schnur	13-OSU-05			44.86	Walvis Ridge\MV1203 (13-INT-04)	13D04550	01
13D04567	11.6 %	Susan Schnur	13-OSU-05			44.86	Walvis Ridge\MV1203 (13-INT-04)	13D04550	01
13D04569	12.4 %	Susan Schnur	13-OSU-05			44.86	Walvis Ridge\MV1203 (13-INT-04)	13D04550	01
13D04570	13.2 %	Susan Schnur	13-OSU-05			44.86	Walvis Ridge\MV1203 (13-INT-04)	13D04550	01
13D04571	14.0 %	Susan Schnur	13-OSU-05			44.86	Walvis Ridge\MV1203 (13-INT-04)	13D04550	01
13D04573	14.8 %	Susan Schnur	13-OSU-05			44.86	Walvis Ridge\MV1203 (13-INT-04)	13D04550	01
13D04574	15.6 %	Susan Schnur	13-OSU-05			44.86	Walvis Ridge\MV1203 (13-INT-04)	13D04550	01
13D04575	16.4 %	Susan Schnur	13-OSU-05			44.86	Walvis Ridge\MV1203 (13-INT-04)	13D04550	01
13D04577	17.2 %	Susan Schnur	13-OSU-05			44.86	Walvis Ridge\MV1203 (13-INT-04)	13D04550	01
13D04578	18.0 %	Susan Schnur	13-OSU-05			44.86	Walvis Ridge\MV1203 (13-INT-04)	13D04550	01
13D04579	18.8 %	Susan Schnur	13-OSU-05			44.86	Walvis Ridge\MV1203 (13-INT-04)	13D04550	01
13D04580	19.6 %	Susan Schnur	13-OSU-05			44.86	Walvis Ridge\MV1203 (13-INT-04)	13D04550	01
13D04582	20.4 %	Susan Schnur	13-OSU-05			44.86	Walvis Ridge\MV1203 (13-INT-04)	13D04550	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
13D04551	2.8 %	MV1203-D40-02	Biotite	Dusky Guyot	FCT-NM	28.201	0.082	Kuiper et al (2008)	9.50452	0.111	0.00165368	0.111	302.832	0.096	0.99393932	0.063	1	4.8E-14	13	NOV	2013	20	56	1
13D04553	3.4 %	MV1203-D40-02	Biotite	Dusky Guyot	FCT-NM	28.201	0.082	Kuiper et al (2008)	9.50452	0.111	0.00165368	0.111	302.832	0.096	0.99393932	0.063	1	4.8E-14	13	NOV	2013	21	21	1
13D04554	4.0 %	MV1203-D40-02	Biotite	Dusky Guyot	FCT-NM	28.201	0.082	Kuiper et al (2008)	9.50452	0.111	0.00165368	0.111	302.832	0.096	0.99393932	0.063	1	4.8E-14	13	NOV	2013	21	33	1
13D04555	4.6 %	MV1203-D40-02	Biotite	Dusky Guyot	FCT-NM	28.201	0.082	Kuiper et al (2008)	9.50452	0.111	0.00165368	0.111	302.832	0.096	0.99393932	0.063	1	4.8E-14	13	NOV	2013	21	46	1
13D04557	5.2 %	MV1203-D40-02	Biotite	Dusky Guyot	FCT-NM	28.201	0.082	Kuiper et al (2008)	9.50452	0.111	0.00165368	0.111	302.832	0.096	0.99393932	0.063	1	4.8E-14	13	NOV	2013	22	11	1
13D04558	6.0 %	MV1203-D40-02	Biotite	Dusky Guyot	FCT-NM	28.201	0.082	Kuiper et al (2008)	9.50452	0.111	0.00165368	0.111	302.832	0.096	0.99393932	0.063	1	4.8E-14	13	NOV	2013	22	23	1
13D04559	6.8 %	MV1203-D40-02	Biotite	Dusky Guyot	FCT-NM	28.201	0.082	Kuiper et al (2008)	9.50452	0.111	0.00165368	0.111	302.832	0.096	0.99393932	0.063	1	4.8E-14	13	NOV	2013	22	35	1
13D04561	7.6 %	MV1203-D40-02	Biotite	Dusky Guyot	FCT-NM	28.201	0.082	Kuiper et al (2008)	9.50452	0.111	0.00165368	0.111	302.832	0.096	0.99393932	0.063	1	4.8E-14	13	NOV	2013	23	0	1
13D04562	8.4 %	MV1203-D40-02	Biotite	Dusky Guyot	FCT-NM	28.201	0.082	Kuiper et al (2008)	9.50452	0.111	0.00165368	0.111	302.832	0.096	0.99393932	0.063	1	4.8E-14	13	NOV	2013	23	13	1
13D04563	9.2 %	MV1203-D40-02	Biotite	Dusky Guyot	FCT-NM	28.201	0.082	Kuiper et al (2008)	9.50452	0.111	0.00165368	0.111	302.832	0.096	0.99393932	0.063	1	4.8E-14	13	NOV	2013	23	25	1
13D04565	10.0 %	MV1203-D40-02	Biotite	Dusky Guyot	FCT-NM	28.201	0.082	Kuiper et al (2008)	9.50452	0.111	0.00165368	0.111	302.832	0.096	0.99393932	0.063	1	4.8E-14	13	NOV	2013	23	50	1
13D04566	10.8 %	MV1203-D40-02	Biotite	Dusky Guyot	FCT-NM	28.201	0.082	Kuiper et al (2008)	9.50452	0.111	0.00165368	0.111	302.832	0.096	0.99393932	0.063	1	4.8E-14	14	NOV	2013	0	2	1
13D04567	11.6 %	MV1203-D40-02	Biotite	Dusky Guyot	FCT-NM	28.201	0.082	Kuiper et al (2008)	9.50452	0.111	0.00165368	0.111	302.832	0.096	0.99393932	0.063	1	4.8E-14	14	NOV	2013	0	15	1
13D04569	12.4 %	MV1203-D40-02	Biotite	Dusky Guyot	FCT-NM	28.201	0.082	Kuiper et al (2008)	9.50452	0.111	0.00165368	0.111	302.832	0.096	0.99393932	0.063	1	4.8E-14	14	NOV	2013	0	40	1
13D04570	13.2 %	MV1203-D40-02	Biotite	Dusky Guyot	FCT-NM	28.201	0.082	Kuiper et al (2008)	9.50452	0.111	0.00165368	0.111	302.832	0.096	0.99393932	0.063	1	4.8E-14	14	NOV	2013	0	52	1
13D04571	14.0 %	MV1203-D40-02	Biotite	Dusky Guyot	FCT-NM	28.201	0.082	Kuiper et al (2008)	9.50452	0.111	0.00165368	0.111	302.832	0.096	0.99393932	0.063	1	4.8E-14	14	NOV	2013	1	5	1
13D04573	14.8 %	MV1203-D40-02	Biotite	Dusky Guyot	FCT-NM	28.201	0.082	Kuiper et al (2008)	9.50452	0.111	0.00165368	0.111	302.832	0.096	0.99393932	0.063	1	4.8E-14	14	NOV	2013	1	29	1
13D04574	15.6 %	MV1203-D40-02	Biotite	Dusky Guyot	FCT-NM	28.201	0.082	Kuiper et al (2008)	9.50452	0.111	0.00165368	0.111	302.832	0.096	0.99393932	0.063	1	4.8E-14	14	NOV	2013	1	42	1
13D04575	16.4 %	MV1203-D40-02	Biotite	Dusky Guyot	FCT-NM	28.201	0.082	Kuiper et al (2008)	9.50452	0.111	0.00165368	0.111	302.832	0.096	0.99393932	0.063	1	4.8E-14	14	NOV	2013	1	54	1
13D04577	17.2 %	MV1203-D40-02	Biotite	Dusky Guyot	FCT-NM	28.201	0.082	Kuiper et al (2008)	9.50452	0.111	0.00165368	0.111	302.832	0.096	0.99393932	0.063	1	4.8E-14	14	NOV	2013	2	19	1
13D04578	18.0 %	MV1203-D40-02	Biotite	Dusky Guyot	FCT-NM	28.201	0.082	Kuiper et al (2008)	9.50452	0.111	0.00165368	0.111	302.832	0.096	0.99393932	0.063	1	4.8E-14	14	NOV	2013	2	31	1
13D04579	18.8 %	MV1203-D40-02	Biotite	Dusky Guyot	FCT-NM	28.201	0.082	Kuiper et al (2008)	9.50452	0.111	0.00165368	0.111	302.832	0.096	0.99393932	0.063	1	4.8E-14	14	NOV	2013	2	44	1
13D04580	19.6 %	MV1203-D40-02	Biotite	Dusky Guyot	FCT-NM	28.201	0.082	Kuiper et al (2008)	9.50452	0.111	0.00165368	0.111	302.832	0.096	0.99393932	0.063	1	4.8E-14	14	NOV	2013	2	56	1
13D04582	20.4 %	MV1203-D40-02	Biotite	Dusky Guyot	FCT-NM	28.201	0.082	Kuiper et al (2008)	9.50452	0.111	0.00165368	0.111	302.832	0.096	0.99393932	0.063	1	4.8E-14	14	NOV	2013	3	21	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
13D04551	2.8 %	295.5	0	0.018	35	0.1869	0	1.493	3	0.000673	0	0.000139	0	0.000264	0	0.00101	0	0.01138	0	0	0	0.43	0	0	0	0	0
13D04553	3.4 %	295.5	0	0.018	35	0.1869	0	1.493	3	0.000673	0	0.000139	0	0.000264	0	0.00101	0	0.01138	0	0	0	0.43	0	0	0	0	0
13D04554	4.0 %	295.5	0	0.018	35	0.1869	0	1.493	3	0.000673	0	0.000139	0	0.000264	0	0.00101	0	0.01138	0	0	0	0.43	0	0	0	0	0
13D04555	4.6 %	295.5	0	0.018	35	0.1869	0	1.493	3	0.000673	0	0.000139	0	0.000264	0	0.00101	0	0.01138	0	0	0	0.43	0	0	0	0	0
13D04557	5.2 %	295.5	0	0.018	35	0.1869	0	1.493	3	0.000673	0	0.000139	0	0.000264	0	0.00101	0	0.01138	0	0	0	0.43	0	0	0	0	0
13D04558	6.0 %	295.5	0	0.018	35	0.1869	0	1.493	3	0.000673	0	0.000139	0	0.000264	0	0.00101	0	0.01138	0	0	0	0.43	0	0	0	0	0
13D04559	6.8 %	295.5	0	0.018	35	0.1869	0	1.493	3	0.000673	0	0.000139	0	0.000264	0	0.00101	0	0.01138	0	0	0	0.43	0	0	0	0	0
13D04561	7.6 %	295.5	0	0.018	35	0.1869	0	1.493	3	0.000673	0	0.000139	0	0.000264	0	0.00101	0	0.01138	0	0	0	0.43	0	0	0	0	0
13D04562	8.4 %	295.5	0	0.018	35	0.1869	0	1.493	3	0.000673	0	0.000139	0	0.000264	0	0.00101	0	0.01138	0	0	0	0.43	0	0	0	0	0
13D04563	9.2 %	295.5	0	0.018	35	0.1869	0	1.493	3	0.000673	0	0.000139	0	0.000264	0	0.00101	0	0.01138	0	0	0	0.43	0	0	0	0	0
13D04565	10.0 %	295.5	0	0.018	35	0.1869	0	1.493	3	0.000673	0	0.000139	0	0.000264	0	0.00101	0	0.01138	0	0	0	0.43	0	0	0	0	0
13D04566	10.8 %	295.5	0	0.018	35	0.1869	0	1.493	3	0.000673	0	0.000139	0	0.000264	0	0.00101	0	0.01138	0	0	0	0.43	0	0	0	0	0
13D04567	11.6 %	295.5	0	0.018	35	0.1869	0	1.493	3	0.000673	0	0.000139	0	0.000264	0	0.00101	0	0.01138	0	0	0	0.43	0	0	0	0	0
13D04569	12.4 %	295.5	0	0.018	35	0.1869	0	1.493	3	0.000673	0	0.000139	0	0.000264	0	0.00101	0	0.01138	0	0	0	0.43	0	0	0	0	0
13D04570	13.2 %	295.5	0	0.018	35	0.1869	0	1.493	3	0.000673	0	0.000139	0	0.000264	0	0.00101	0	0.01138	0	0	0	0.43	0	0	0	0	0
13D04571	14.0 %	295.5	0	0.018	35	0.1869	0	1.493	3	0.000673	0	0.000139	0	0.000264	0	0.00101	0	0.01138	0	0	0	0.43	0	0	0	0	0
13D04573	14.8 %	295.5	0	0.018	35	0.1869	0	1.493	3	0.000673	0	0.000139	0	0.000264	0	0.00101	0	0.01138	0	0	0	0.43	0	0	0	0	0
13D04574	15.6 %	295.5	0	0.018	35	0.1869	0	1.493	3	0.000673	0	0.000139	0	0.000264	0	0.00101	0	0.01138	0	0	0	0.43	0	0	0	0	0
13D04575	16.4 %	295.5	0	0.018	35	0.1869	0	1.493	3	0.000673	0	0.000139	0	0.000264	0	0.00101	0	0.01138	0	0	0	0.43	0	0	0	0	0
13D04577	17.2 %	295.5	0	0.018	35	0.1869	0	1.493	3	0.000673	0	0.000139	0	0.000264	0	0.00101	0	0.01138	0	0	0	0.43	0	0	0	0	0
13D04578	18.0 %	295.5	0	0.018	35	0.1869	0	1.493	3	0.000673	0	0.000139	0	0.000264	0	0.00101	0	0.01138	0	0	0	0.43	0	0	0	0	0
13D04579	18.8 %	295.5	0	0.018	35	0.1869	0	1.493	3	0.000673	0	0.000139	0	0.000264	0	0.00101	0	0.01138	0	0	0	0.43	0	0	0	0	0
13D04580	19.6 %	295.5	0	0.018	35	0.1869	0	1.493	3	0.000673	0	0.000139	0	0.000264	0	0.00101	0	0.01138	0	0	0	0.43	0	0	0	0	0
13D04582	20.4 %	295.5	0	0.018	35	0.1869	0	1.493	3	0.000673	0	0.000139	0	0.000264	0	0.00101	0	0.01138	0	0	0	0.43	0	0	0	0	0

13D04550.AGE >>> MV1203-D40-02 >>> WALVIS RIDGE | MV1203 (13-INT-04) PROJECT



Ar-Ages in Ma

WEIGHTED PLATEAU
25.15 ± 0.06
TOTAL FUSION
25.20 ± 0.06
NORMAL ISOCHRON
25.07 ± 0.11
INVERSE ISOCHRON
25.07 ± 0.11

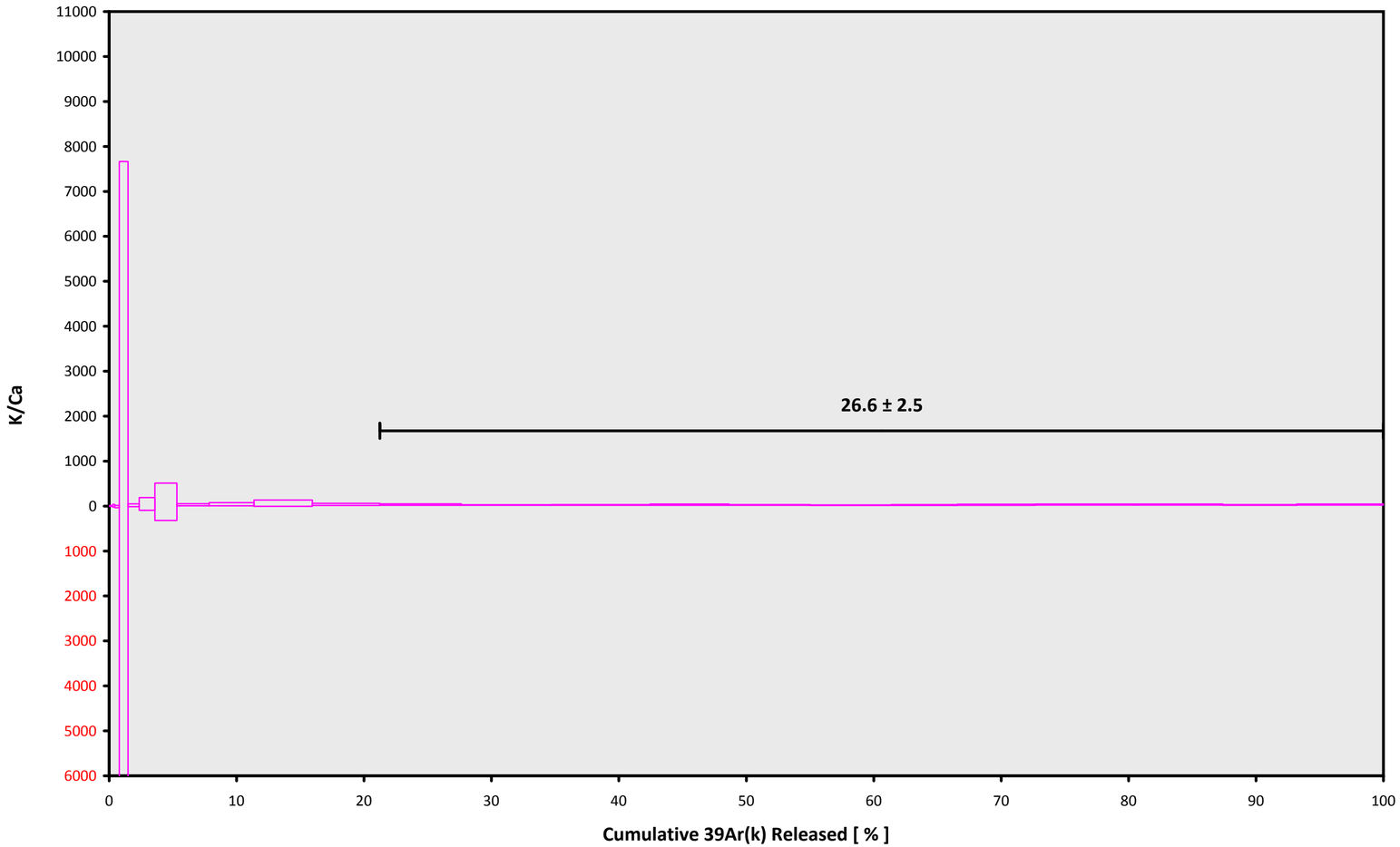
MSWD (PROBABILITY)
0.75 (69%)

Sample Info

Biotite
Dusky Guyot
Susan Schnur

IRR = 13-OSU-05
J = 0.00165368 ± 0.00000184

13D04550.AGE >>> MV1203-D40-02 >>> WALVIS RIDGE | MV1203 (13-INT-04) PROJECT



Ar-Ages in Ma

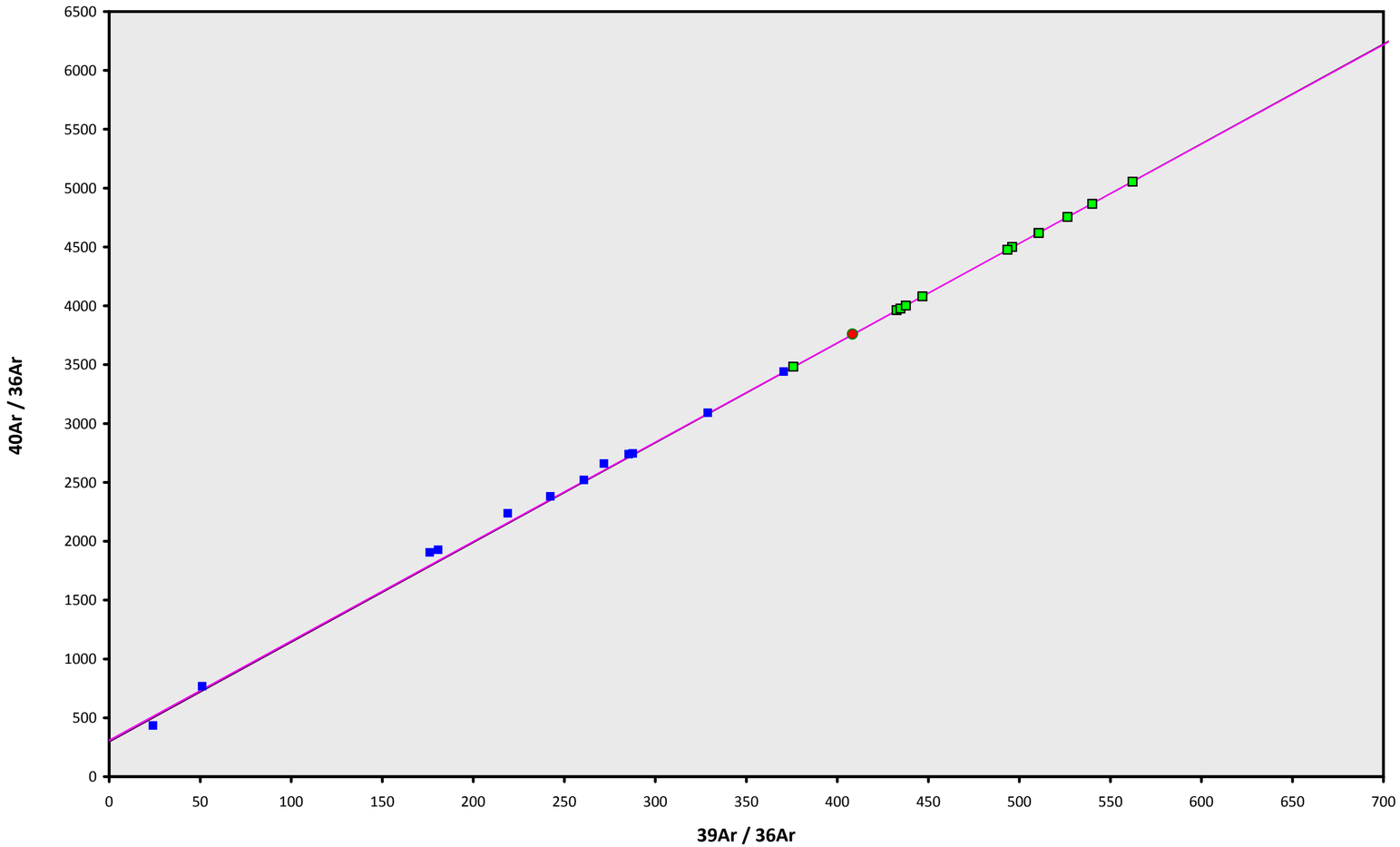
WEIGHTED PLATEAU
25.15 ± 0.06
TOTAL FUSION
25.20 ± 0.06
NORMAL ISOCHRON
25.07 ± 0.11
INVERSE ISOCHRON
25.07 ± 0.11

Sample Info

Biotite
Dusky Guyot
Susan Schnur

IRR = 13-OSU-05
J = 0.00165368 ± 0.00000184

13D04550.AGE >>> MV1203-D40-02 >>> WALVIS RIDGE | MV1203 (13-INT-04) PROJECT



Ar-Ages in Ma

WEIGHTED PLATEAU
25.15 ± 0.06
TOTAL FUSION
25.20 ± 0.06
NORMAL ISOCHRON
25.07 ± 0.11
INVERSE ISOCHRON
25.07 ± 0.11

MSWD (PROBABILITY)
0.49 (90%)

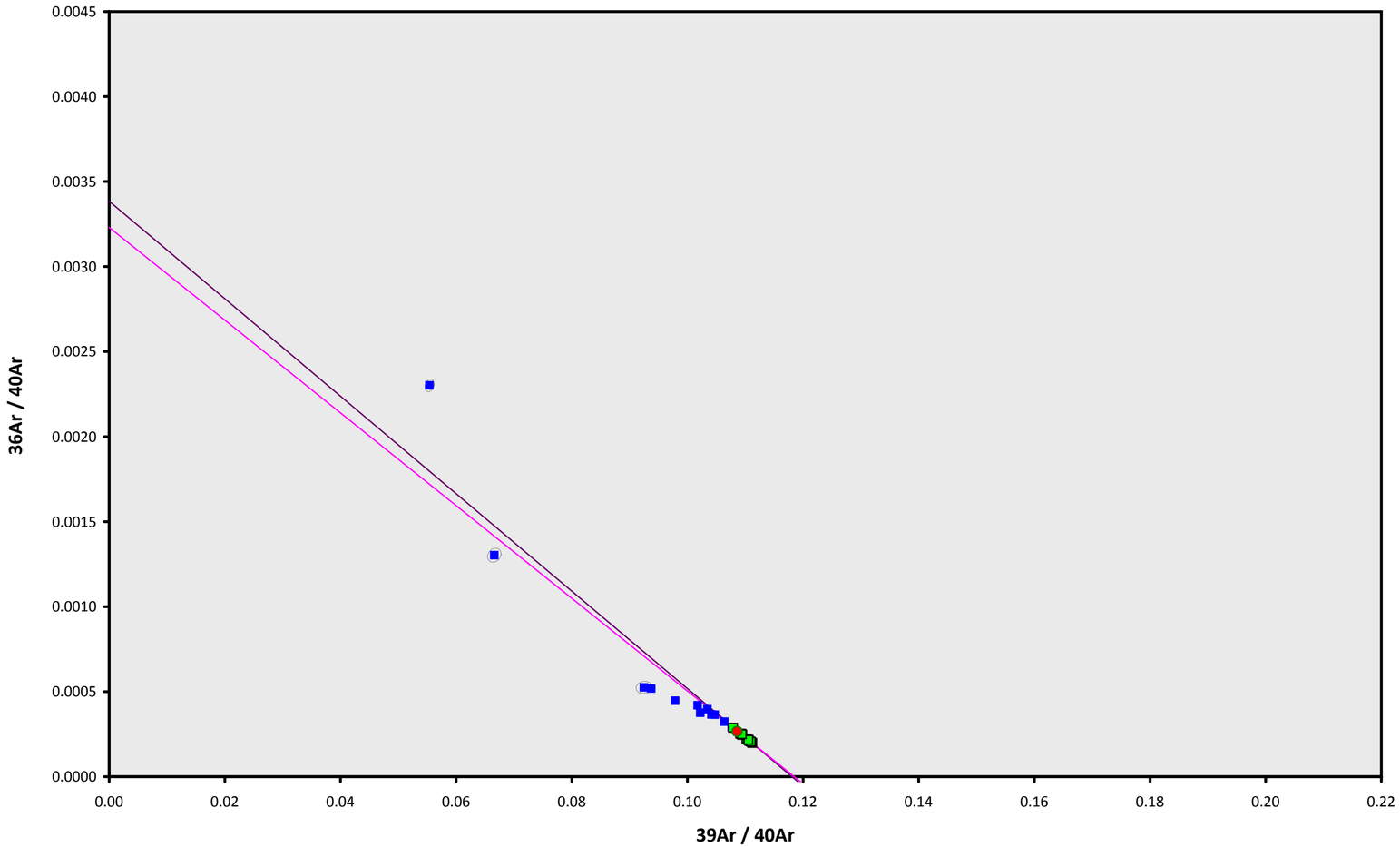
40AR/36AR INTERCEPT
309.3 ± 15.3

Sample Info

Biotite
Dusky Guyot
Susan Schnur

IRR = 13-OSU-05
J = 0.00165368 ± 0.00000184

13D04550.AGE >>> MV1203-D40-02 >>> WALVIS RIDGE | MV1203 (13-INT-04) PROJECT



Ar-Ages in Ma

WEIGHTED PLATEAU
25.15 ± 0.06
TOTAL FUSION
25.20 ± 0.06
NORMAL ISOCHRON
25.07 ± 0.11
INVERSE ISOCHRON
25.07 ± 0.11

MSWD (PROBABILITY)
0.49 (90%)

SPREADING FACTOR
2.8%

40AR/36AR INTERCEPT
309.6 ± 15.3

Sample Info

Biotite
Dusky Guyot
Susan Schnur

IRR = 13-OSU-05
J = 0.00165368 ± 0.00000184