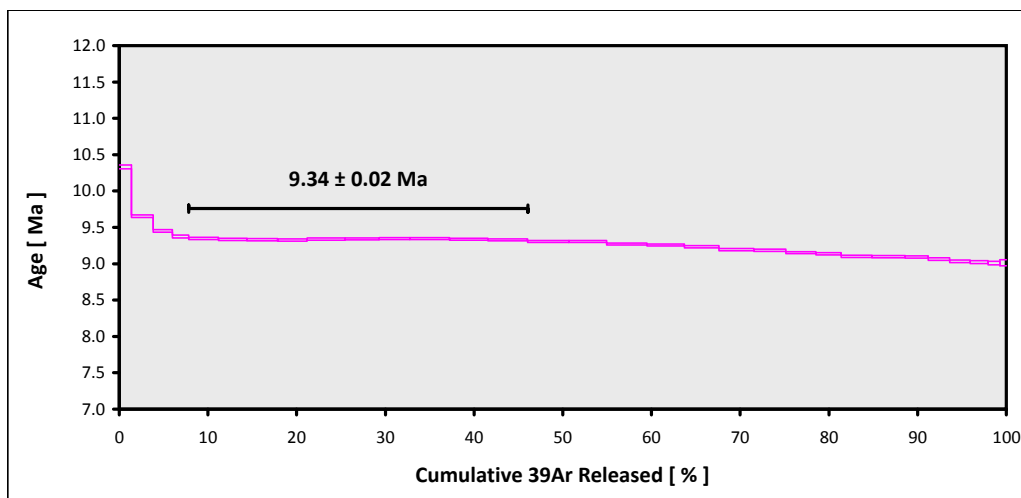


**EXP#13D03867 > MV1203-D42-17 (DARK) > Groundmass > MV1203 (13-INT-04)
 WALVIS RIDGE > ESK GUYOT
 13-OSU-05 > Incremental Heating > Susan Schnur**

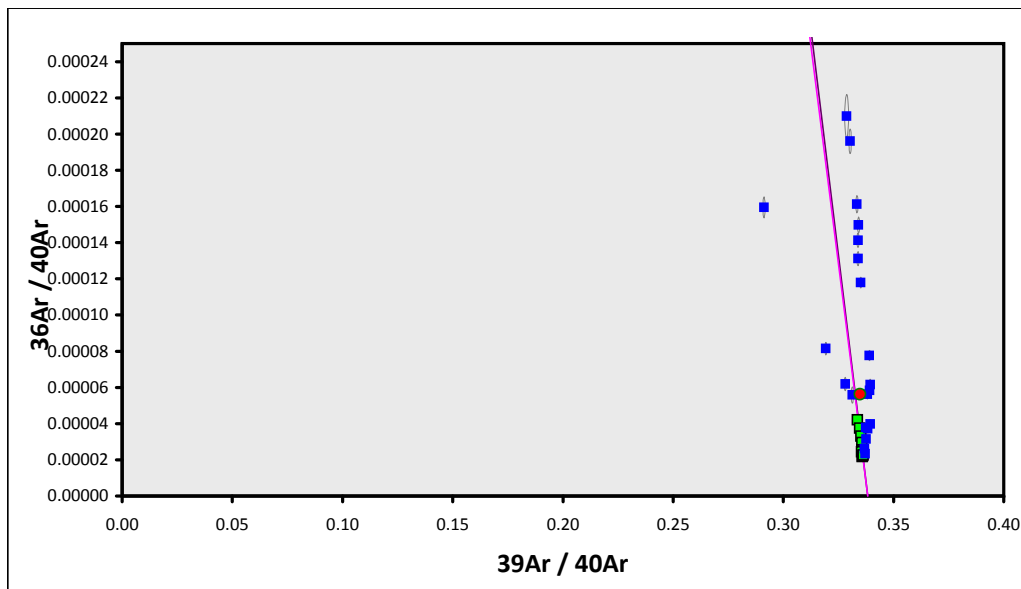
**Information on Analysis
 and Constants Used in Calculations**

Project = **MV1203 (13-INT-04)**
 Sample = **MV1203-D42-17 (DARK)**
 Material = **Groundmass**
 Location = **Esk Guyot**
 Region = **Walvis Ridge**
 Analyst = **Susan Schnur**
 Irradiation = **13-OSU-05**
 Position = X: | Y: | Z/H: **19.37 mm**
 FCT-NM Age = **28.201 ± 0.023 Ma**
 FCT-NM Reference = **Kuiper et al (2008)**
 FCT-NM 40Ar/39Ar Ratio = **8.97572 ± 0.01158**
 FCT-NM J-value = **0.00175110 ± 0.00000226**
 Air Shot 40Ar/36Ar = **302.7280 ± 0.2876**
 Air Shot MDF = **0.99402323 ± 0.00062389 (LIN)**
 Experiment Type = **Incremental Heating**
 Extraction Method = **Bulk Laser Heating**
 Heating = **77 sec**
 Isolation = **5.52 min**
 Instrument = **ARGUS-VI-D**
 Preferred Age = **Plateau Age**
 Age Classification = **Eruption Age**
 IGSN = **IESRS0001**
 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	40(a)/36(a) ± 2σ	40(r)/39(k) ± 2σ	Age ± 2σ (Ma)	MSWD	39Ar(k) (%n)	K/Ca ± 2σ
Age Plateau		2.95655 ± 0.00154 ± 0.05%	9.34 ± 0.02 ± 0.26%	1.18 31%	38.22 10	5.20 ± 0.13
			Full External Error ± 0.21 Analytical Error ± 0.00	1.94 1.0844	2σ Confidence Limit Error Magnification	
Total Fusion Age		2.93678 ± 0.00088 ± 0.03%	9.28 ± 0.02 ± 0.26%		31	4.81 ± 0.07
			Full External Error ± 0.21 Analytical Error ± 0.00			
Normal Isochron	278.40 ± 85.02 ± 30.54%	2.95797 ± 0.00727 ± 0.25%	9.34 ± 0.03 ± 0.36%	1.39 19%	38.22 10	
			Full External Error ± 0.21 Analytical Error ± 0.02	1.1803	2σ Confidence Limit Error Magnification	
Inverse Isochron Clustered Points	306.37 ± 79.96 ± 26.10%	2.95565 ± 0.00712 ± 0.24%	9.34 ± 0.03 ± 0.35%	1.31 23%	38.22 10	
			Full External Error ± 0.21 Analytical Error ± 0.02	1.1453	2σ Confidence Limit Error Magnification 1% Spreading Factor	



Good, but dirtier than LIGHT fraction so use LIGHT as final age.

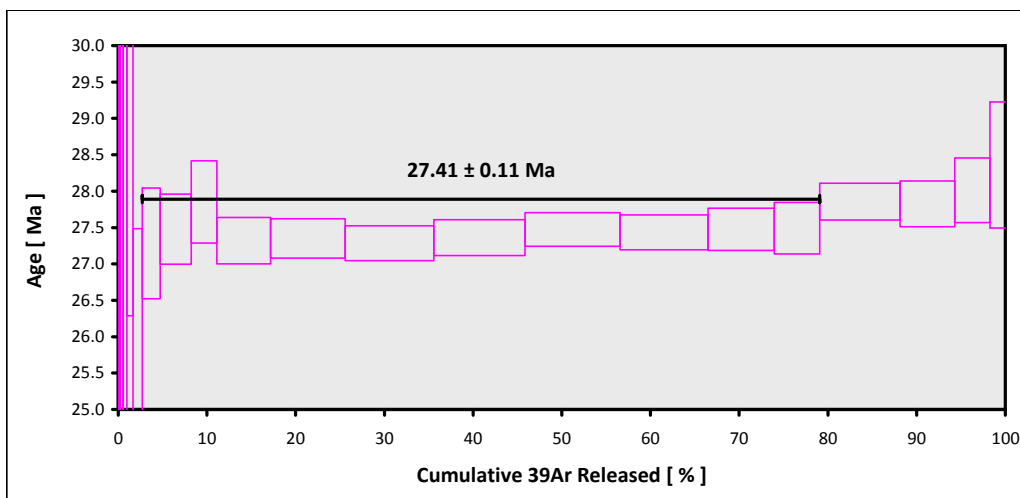


EXP#13D03940 > MV1203-D37-01 > Plagioclase > MV1203 (13-INT-04)
WALVIS RIDGE > OMURA GUYOT
13-OSU-05 > Incremental Heating > Susan Schnur

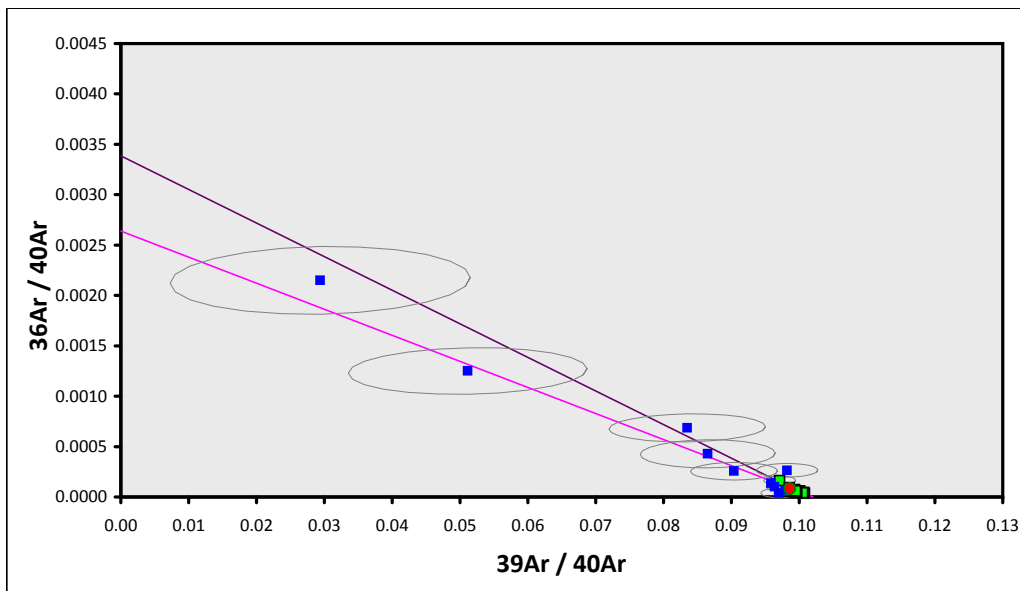
**Information on Analysis
 and Constants Used in Calculations**

Project = **MV1203 (13-INT-04)**
 Sample = **MV1203-D37-01**
 Material = **Plagioclase**
 Location = **Omura Guyot**
 Region = **Walvis Ridge**
 Analyst = **Susan Schnur**
 Irradiation = **13-OSU-05**
 Position = X: | Y: | Z/H: **64.4 mm**
 FCT-NM Age = **28.201 ± 0.023 Ma**
 FCT-NM Reference = **Kuiper et al (2008)**
 FCT-NM 40Ar/39Ar Ratio = **10.13215 ± 0.01155**
 FCT-NM J-value = **0.00155124 ± 0.00000177**
 Air Shot 40Ar/36Ar = **302.7820 ± 0.2846**
 Air Shot MDF = **0.99397965 ± 0.00062288 (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 = **IESRS0002**
 Rock Class = **Igneous>Volcanic>Mafic**
 Lithology = **Trachybasalt**
 Lat-Lon = **37°33.0'S - 8°27.1'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 ± 0.00000089**
 Production 38/37(ca) = **0.0000718 ± 0.00000092**
 Production 36/37(ca) = **0.0002663 ± 0.00000004**
 Production 40/39(k) = **0.003823 ± 0.000102**
 Production 38/39(k) = **0.012031 ± 0.000019**
 Production 36/38(cl) = **262.80 ± 1.71**
 Scaling Ratio K/Ca = **0.430**
 Abundance Ratio 40K/K = **1.1700 ± 0.0100 E-04**
 Atomic Weight K = **39.0983 ± 0.0001 g**

Results	40(a)/36(a) ± 2σ	40(r)/39(k) ± 2σ	Age ± 2σ (Ma)	MSWD	39Ar(k) (% ,n)	K/Ca ± 2σ
Age Plateau		9.84507 ± 0.03273 ± 0.33%	27.41 ± 0.11 ± 0.40%	0.52 88%	76.36 11	0.0071 ± 0.0001
			Full External Error ± 0.63 Analytical Error ± 0.09	1.89 1.0000	2σ Confidence Limit Error Magnification	
Total Fusion Age		9.88807 ± 0.03153 ± 0.32%	27.53 ± 0.11 ± 0.39%		21	0.0071 ± 0.0000
			Full External Error ± 0.63 Analytical Error ± 0.09			
Normal Isochron	350.49 ± 173.63 ± 49.54%	9.80745 ± 0.10335 ± 1.05%	27.30 ± 0.29 ± 1.07%	0.38 95%	76.36 11	
			Full External Error ± 0.68 Analytical Error ± 0.29	1.94 1.0000	2σ Confidence Limit Error Magnification	
Inverse Isochron	378.84 ± 185.51 ± 48.97%	9.79896 ± 0.11215 ± 1.14%	27.28 ± 0.32 ± 1.16%	0.46 90%	76.36 11	
Clustered Points			Full External Error ± 0.69 Analytical Error ± 0.31	1.94 1.0000	2σ Confidence Limit Error Magnification	4% Spreading Factor



Good, although isochron not well-developed.

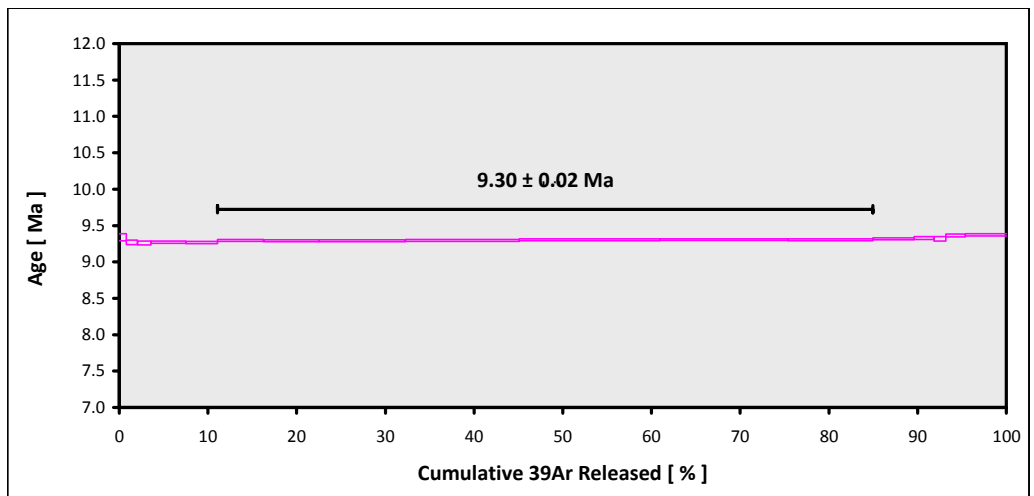


EXP#13D03970 > MV1203-D42-08 > K Feldspar > MV1203 (13-INT-04)
WALVIS RIDGE > ESK GUYOT
13-OSU-05 > Incremental Heating > Susan Schnur

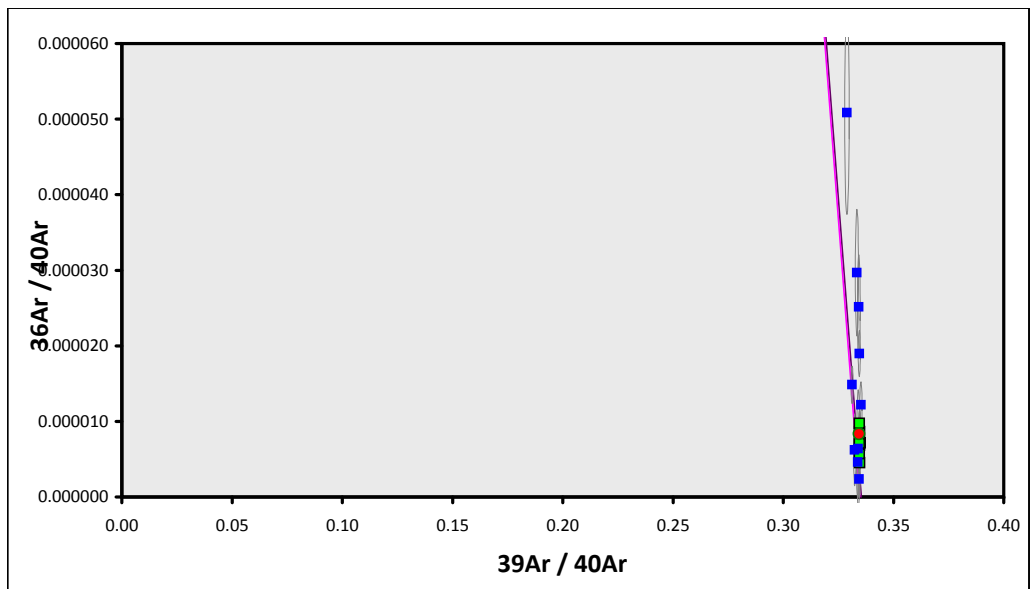
**Information on Analysis
 and Constants Used in Calculations**

Project = **MV1203 (13-INT-04)**
 Sample = **MV1203-D42-08**
 Material = **K Feldspar**
 Location = **Esk Guyot**
 Region = **Walvis Ridge**
 Analyst = **Susan Schnur**
 Irradiation = **13-OSU-05**
 Position = X: | Y: | Z/H: **26.44 mm**
 FCT-NM Age = **28.201 ± 0.023 Ma**
 FCT-NM Reference = **Kuiper et al (2008)**
 FCT-NM 40Ar/39Ar Ratio = **9.09148 ± 0.01155**
 FCT-NM J-value = **0.00172880 ± 0.00000220**
 Air Shot 40Ar/36Ar = **302.7810 ± 0.2846**
 Air Shot MDF = **0.99398046 ± 0.00062288 (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 = **IESRS0003**
 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	40(a)/36(a) ± 2σ	40(r)/39(k) ± 2σ	Age ± 2σ (Ma)	MSWD	39Ar(k) (%n)	K/Ca ± 2σ
Age Plateau		2.98198 ± 0.00154 ± 0.05%	9.30 ± 0.02 ± 0.26%	0.96 45%	73.90 7	2.98 ± 0.07
			Full External Error ± 0.21 Analytical Error ± 0.00	2.15 1.0000	2σ Confidence Limit Error Magnification	
Total Fusion Age		2.98348 ± 0.00129 ± 0.04%	9.30 ± 0.02 ± 0.26%		17	2.98 ± 0.03
			Full External Error ± 0.21 Analytical Error ± 0.00			
Normal Isochron	6.75 ± 310.61 #####	2.98800 ± 0.00670 ± 0.22%	9.32 ± 0.03 ± 0.34%	0.58 72%	73.90 7	
			Full External Error ± 0.21 Analytical Error ± 0.02	2.26 1.0000	2σ Confidence Limit Error Magnification	
Inverse Isochron Clustered Points	12.66 ± 14.81 #####	2.98787 ± 0.00670 ± 0.22%	9.32 ± 0.03 ± 0.34%	0.58 71%	73.90 7	
			Full External Error ± 0.21 Analytical Error ± 0.02	2.26 1.0000	2σ Confidence Limit Error Magnification 0% Spreading Factor	



Good plateau

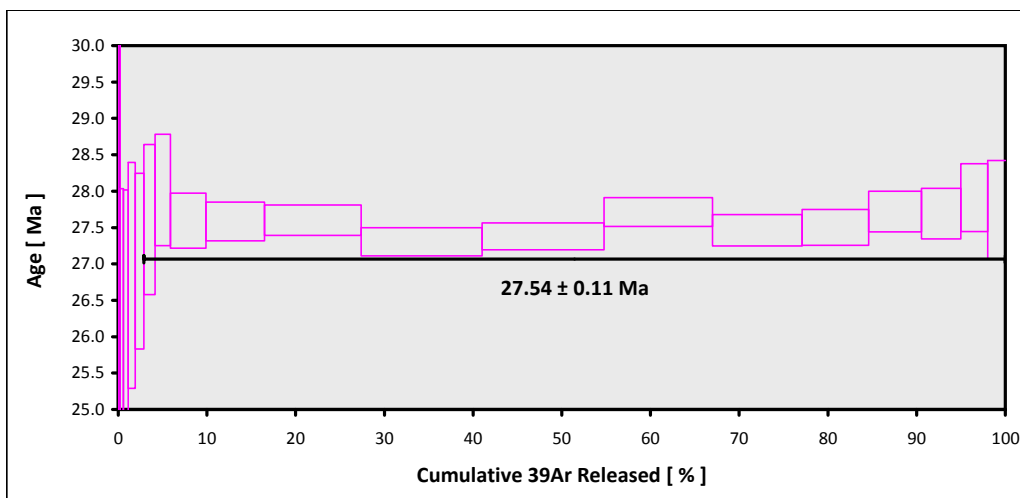


EXP#13D03994 > MV1203-D37-03 > Plagioclase > MV1203 (13-INT-04)
WALVIS RIDGE > OMURA GUYOT
13-OSU-05 > Incremental Heating > Susan Schnur

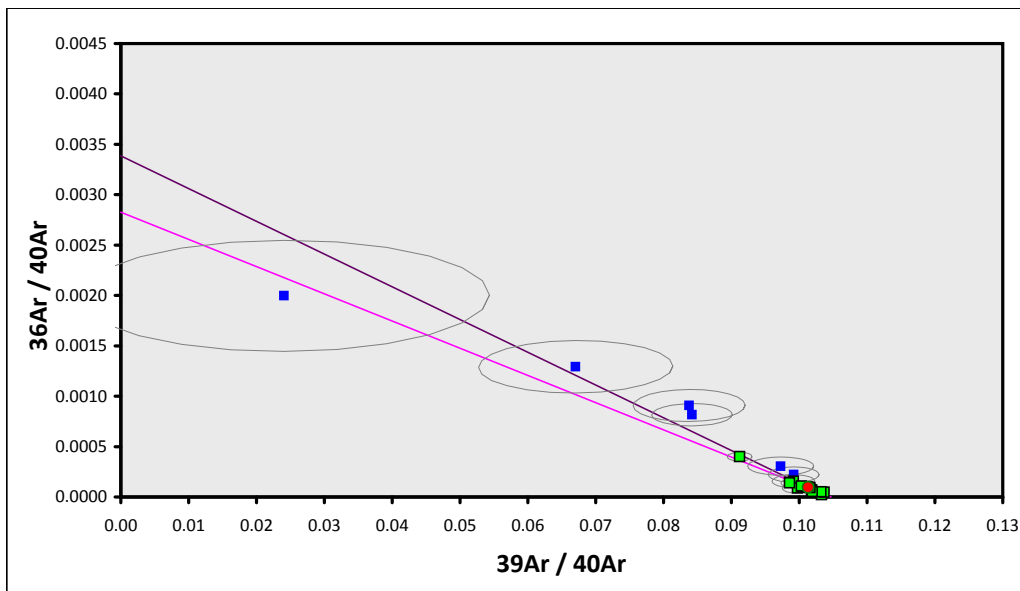
**Information on Analysis
 and Constants Used in Calculations**

Project = **MV1203 (13-INT-04)**
 Sample = **MV1203-D37-03**
 Material = **Plagioclase**
 Location = **Omura Guyot**
 Region = **Walvis Ridge**
 Analyst = **Susan Schnur**
 Irradiation = **13-OSU-05**
 Position = X: | Y: | Z/H: 55.6 mm
 FCT-NM Age = **28.201 ± 0.023 Ma**
 FCT-NM Reference = **Kuiper et al (2008)**
 FCT-NM 40Ar/39Ar Ratio = **9.82798 ± 0.01150**
 FCT-NM J-value = **0.00159925 ± 0.00000187**
 Air Shot 40Ar/36Ar = **302.7790 ± 0.2846**
 Air Shot MDF = **0.99398207 ± 0.00062288 (LIN)**
 Experiment Type = **Incremental Heating**
 Extraction Method = **Bulk Laser Heating**
 Heating = **59 sec**
 Isolation = **5.52 min**
 Instrument = **ARGUS-VI-D**
 Preferred Age = **Plateau Age**
 Age Classification = **Undefined**
 IGSN = **IESRS0004**
 Rock Class = **Igneous>Volcanic>Mafic**
 Lithology = **Basalt**
 Lat-Lon = **37°33.0'S - 8°27.1'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	40(a)/36(a) ± 2σ	40(r)/39(k) ± 2σ	Age ± 2σ (Ma)	MSWD	39Ar(k) (%n)	K/Ca ± 2σ
Age Plateau		9.59589 ± 0.03130 ± 0.33%	27.54 ± 0.11 ± 0.40%	1.54 9%	97.10 14	0.0078 ± 0.0001
			Full External Error ± 0.63 Analytical Error ± 0.09	1.78 1.2412	2σ Confidence Limit Error Magnification	
Total Fusion Age		9.59069 ± 0.02699 ± 0.28%	27.53 ± 0.10 ± 0.36%		20	0.0079 ± 0.0000
			Full External Error ± 0.63 Analytical Error ± 0.08			
Normal Isochron Error Chron	283.73 ± 81.04 ± 28.56%	9.59535 ± 0.06430 ± 0.67%	27.54 ± 0.19 ± 0.70%	2.52 0%	97.10 14	
			Full External Error ± 0.65 Analytical Error ± 0.18	1.82 1.5861	2σ Confidence Limit Error Magnification	
Inverse Isochron	353.69 ± 62.90 ± 17.78%	9.55484 ± 0.05530 ± 0.58%	27.42 ± 0.17 ± 0.62%	1.24 25%	97.10 14	
			Full External Error ± 0.64 Analytical Error ± 0.16	1.82 1.1119	2σ Confidence Limit Error Magnification	
				12%	Spreading Factor	



Good plateau

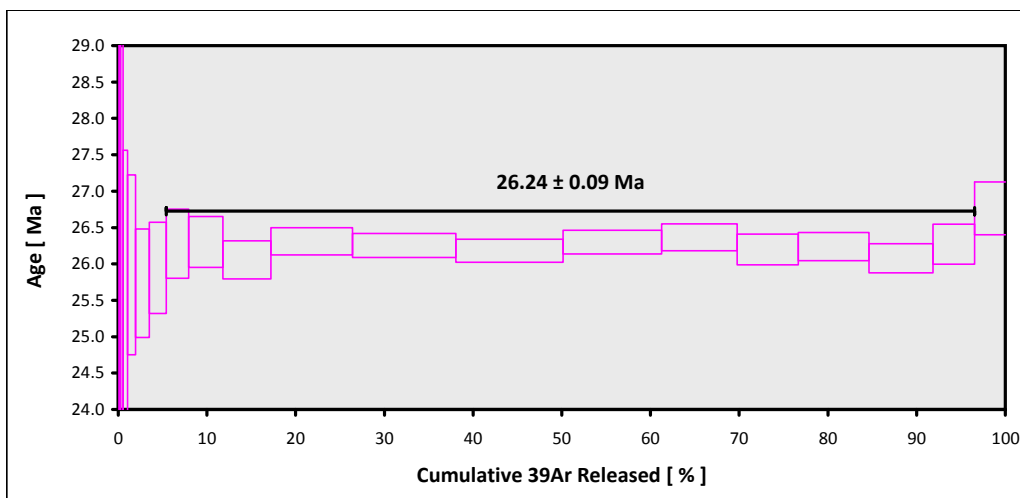


**EXP#13D04032 > MV1203-D38-01 > Plagioclase > MV1203 (13-INT-04)
 WALVIS RIDGE > HECTOR GUYOT
 13-OSU-05 > Incremental Heating > Susan Schnur**

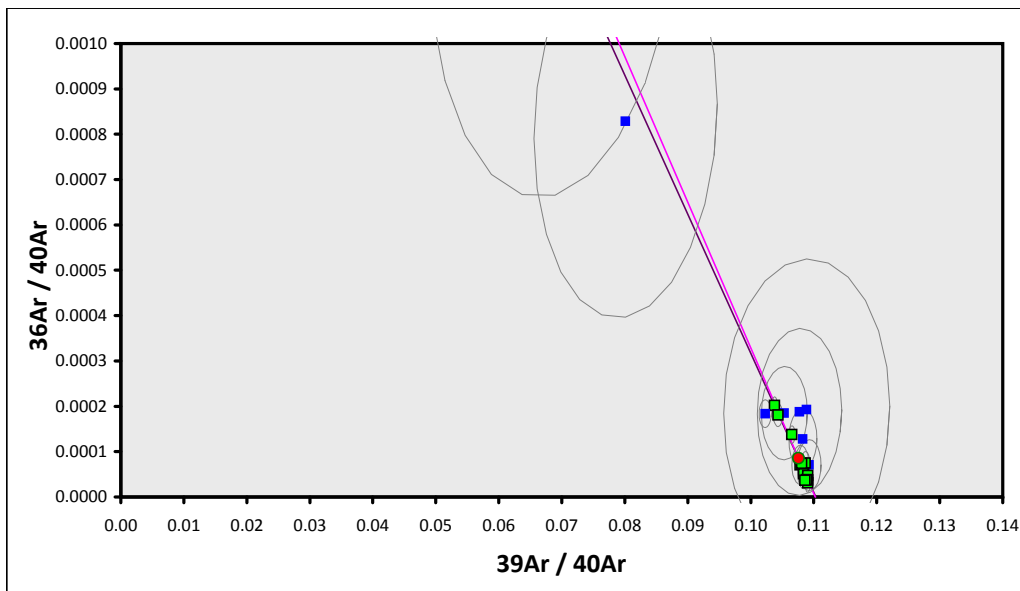
**Information on Analysis
 and Constants Used in Calculations**

Project = **MV1203 (13-INT-04)**
 Sample = **MV1203-D38-01**
 Material = **Plagioclase**
 Location = **Hector Guyot**
 Region = **Walvis Ridge**
 Analyst = **Susan Schnur**
 Irradiation = **13-OSU-05**
 Position = X: | Y: | Z/H: 53 mm
 FCT-NM Age = **28.201 ± 0.023 Ma**
 FCT-NM Reference = **Kuiper et al (2008)**
 FCT-NM 40Ar/39Ar Ratio = **9.74538 ± 0.01150**
 FCT-NM J-value = **0.00161280 ± 0.00000190**
 Air Shot 40Ar/36Ar = **302.7470 ± 0.2906**
 Air Shot MDF = **0.99400790 ± 0.00062477 (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 = **IESRS0005**
 Rock Class = **Igneous>Volcanic>Mafic**
 Lithology = **Basalt**
 Lat-Lon = **37°47.2'S - 8°52.3'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(ε,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 ± 0.00000089**
 Production 38/37(ca) = **0.0000718 ± 0.00000092**
 Production 36/37(ca) = **0.0002663 ± 0.00000004**
 Production 40/39(k) = **0.003823 ± 0.000102**
 Production 38/39(k) = **0.012031 ± 0.000019**
 Production 36/38(cl) = **262.80 ± 1.71**
 Scaling Ratio K/Ca = **0.430**
 Abundance Ratio 40K/K = **1.1700 ± 0.0100 E-04**
 Atomic Weight K = **39.0983 ± 0.0001 g**

Results	40(a)/36(a) ± 2σ	40(r)/39(k) ± 2σ	Age ± 2σ (Ma)	MSWD	39Ar(k) (%),n	K/Ca ± 2σ
Age Plateau		9.06239 ± 0.02050 ± 0.23%	26.24 ± 0.09 ± 0.32%	0.78 66%	91.13 12	0.0113 ± 0.0007
			Full External Error ± 0.60 Analytical Error ± 0.06	1.85 1.0000	2σ Confidence Limit Error Magnification	
Total Fusion Age		9.06096 ± 0.02204 ± 0.24%	26.23 ± 0.09 ± 0.34%		20	0.0115 ± 0.0000
			Full External Error ± 0.60 Analytical Error ± 0.06			
Normal Isochron	248.37 ± 41.87 ± 16.86%	9.09981 ± 0.03454 ± 0.38%	26.35 ± 0.12 ± 0.44%	1.45 15%	91.13 12	
			Full External Error ± 0.60 Analytical Error ± 0.10	1.89 1.2058	2σ Confidence Limit Error Magnification	
Inverse Isochron	282.30 ± 36.66 ± 12.99%	9.07170 ± 0.03222 ± 0.36%	26.27 ± 0.11 ± 0.42%	0.81 62%	91.13 12	
Clustered Points			Full External Error ± 0.60 Analytical Error ± 0.09	1.89 1.0000	2σ Confidence Limit Error Magnification	
				5%	Spreading Factor	



Good plateau



EXP#13D04060 > MV1203-D40-25 > Plagioclase > MV1203 (13-INT-04)
WALVIS RIDGE > DUSKY GUYOT
13-OSU-05 > Incremental Heating > Susan Schnur

**Information on Analysis
 and Constants Used in Calculations**

Project = **MV1203 (13-INT-04)**
 Sample = **MV1203-D40-25**
 Material = **Plagioclase**
 Location = **Dusky Guyot**
 Region = **Walvis Ridge**
 Analyst = **Susan Schnur**
 Irradiation = **13-OSU-05**
 Position = X: | Y: | Z/H: **39.8 mm**
 FCT-NM Age = **28.201 ± 0.023 Ma**
 FCT-NM Reference = **Kuiper et al (2008)**
 FCT-NM 40Ar/39Ar Ratio = **9.37716 ± 0.01153**
 FCT-NM J-value = **0.00167614 ± 0.00000206**
 Air Shot 40Ar/36Ar = **302.7480 ± 0.2906**
 Air Shot MDF = **0.99400709 ± 0.00062476 (LIN)**
 Experiment Type = **Incremental Heating**
 Extraction Method = **Bulk Laser Heating**
 Heating = **60 sec**
 Isolation = **5.52 min**
 Instrument = **ARGUS-VI-D**
 Preferred Age = **Undefined**
 Age Classification = **Undefined**
 IGSN = **IESRS0006**
 Rock Class = **Igneous>Volcanic>Mafic**
 Lithology = **Trachyte**
 Lat-Lon = **37°55.1'S - 6°53.2'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**

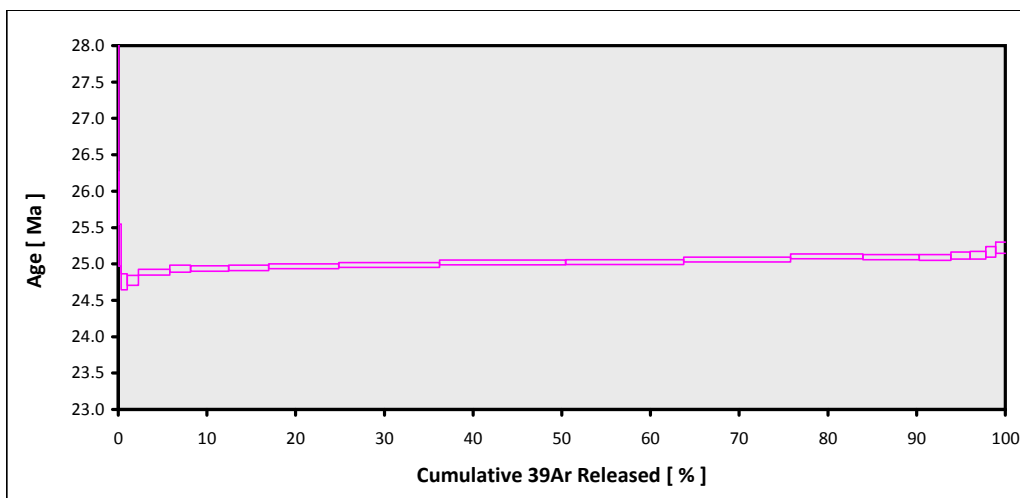
Results	40(a)/36(a) ± 2σ	40(r)/39(k) ± 2σ	Age ± 2σ (Ma)	MSWD	39Ar(k) (%n)	K/Ca ± 2σ
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Age Plateau
 Cannot Calculate

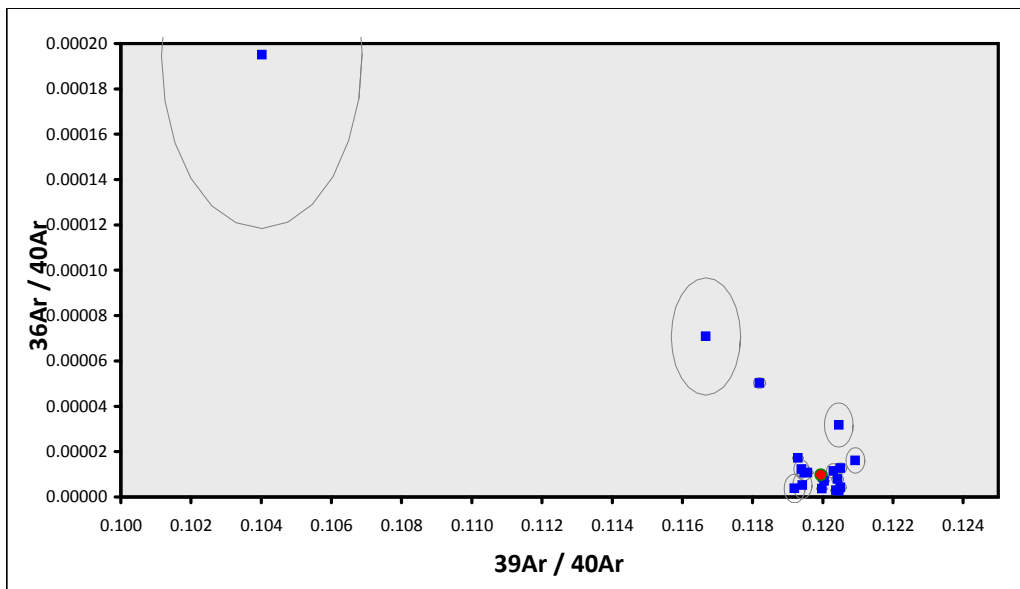
Total Fusion Age	8.31309 ± 0.00345 ± 0.04%	25.02 ± 0.06 ± 0.25%	20	0.295 ± 0.001
		Full External Error ± 0.57		
		Analytical Error ± 0.01		

Normal Isochron
 Cannot Calculate

Inverse Isochron
 Cannot Calculate



Questionable, plateau slants upwards, excess argon.

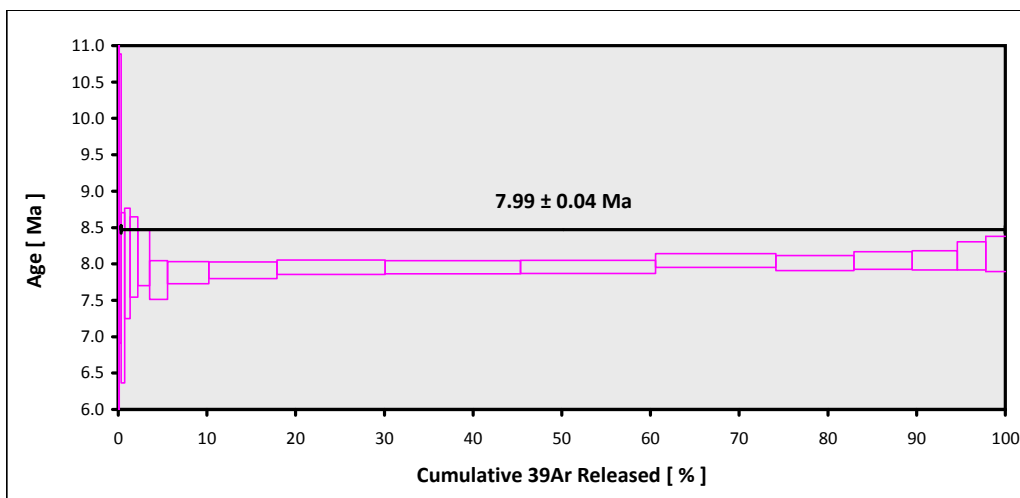


EXP#13D04088 > MV1203-D45-01 > Plagioclase > MV1203 (13-INT-04)
WALVIS RIDGE > GREY SEAMOUNT
13-OSU-05 > Incremental Heating > Susan Schnur

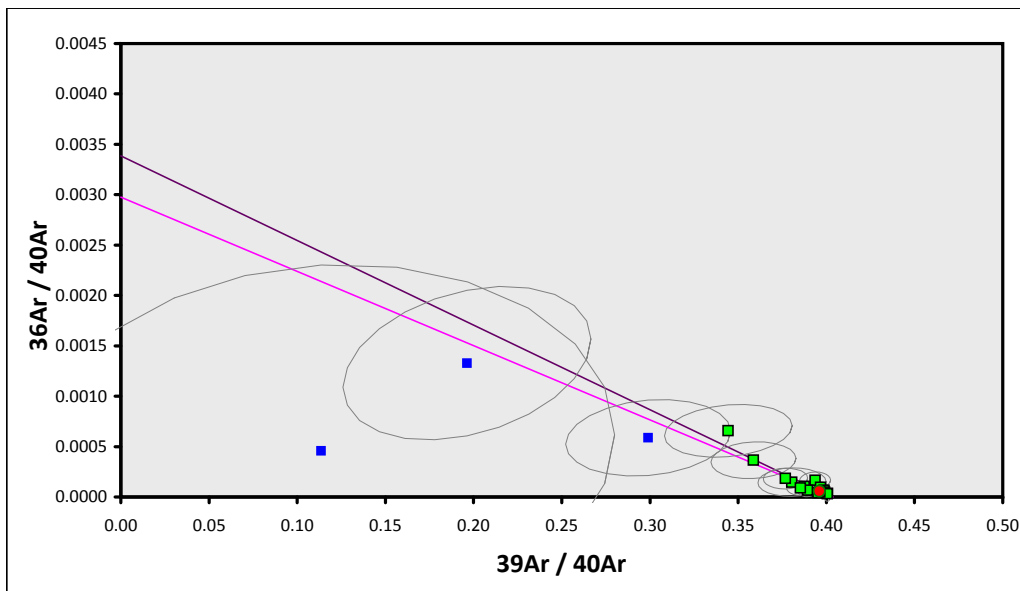
**Information on Analysis
 and Constants Used in Calculations**

Project = MV1203 (13-INT-04)
 Sample = MV1203-D45-01
 Material = Plagioclase
 Location = Grey Seamount
 Region = Walvis Ridge
 Analyst = Susan Schnur
 Irradiation = 13-OSU-05
 Position = X: | Y: | Z/H: 3.97 mm
 FCT-NM Age = 28.201 ± 0.023 Ma
 FCT-NM Reference = Kuiper et al (2008)
 FCT-NM 40Ar/39Ar Ratio = 8.80841 ± 0.01154
 FCT-NM J-value = 0.00178436 ± 0.00000234
 Air Shot 40Ar/36Ar = 302.7480 ± 0.2906
 Air Shot MDF = 0.99400709 ± 0.00062476 (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 = IESRS0007
 Rock Class = Igneous>Volcanic>Mafic
 Lithology = Trachybasalt
 Lat-Lon = 40°13.0'S - 12°19.3'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	40(a)/36(a) ± 2σ	40(r)/39(k) ± 2σ	Age ± 2σ (Ma)	MSWD	39Ar(k) (% ,n)	K/Ca ± 2σ
Age Plateau		2.48072 ± 0.01065 ± 0.43%	7.99 ± 0.04 ± 0.50%	1.02	99.67	0.0169 ± 0.0004
			Full External Error ± 0.18 Analytical Error ± 0.03	43%	16	
				1.73	2σ Confidence Limit	
				1.0083	Error Magnification	
Total Fusion Age		2.48186 ± 0.01103 ± 0.44%	7.99 ± 0.04 ± 0.51%		19	0.0168 ± 0.0001
			Full External Error ± 0.18 Analytical Error ± 0.04			
Normal Isochron	94.76 ± 112.63	2.49792 ± 0.01368 ± 0.55%	8.04 ± 0.05 ± 0.61%	2.48	99.67	
Error Chron	#####		Full External Error ± 0.19 Analytical Error ± 0.04	0%	16	
				1.76	2σ Confidence Limit	
				1.5750	Error Magnification	
Inverse Isochron	336.23 ± 115.45 ± 34.34%	2.47574 ± 0.01811 ± 0.73%	7.97 ± 0.06 ± 0.78%	1.04	99.67	
			Full External Error ± 0.19 Analytical Error ± 0.06	41%	16	
				1.76	2σ Confidence Limit	
				1.0216	Error Magnification	
				14%	Spreading Factor	



Good plateau

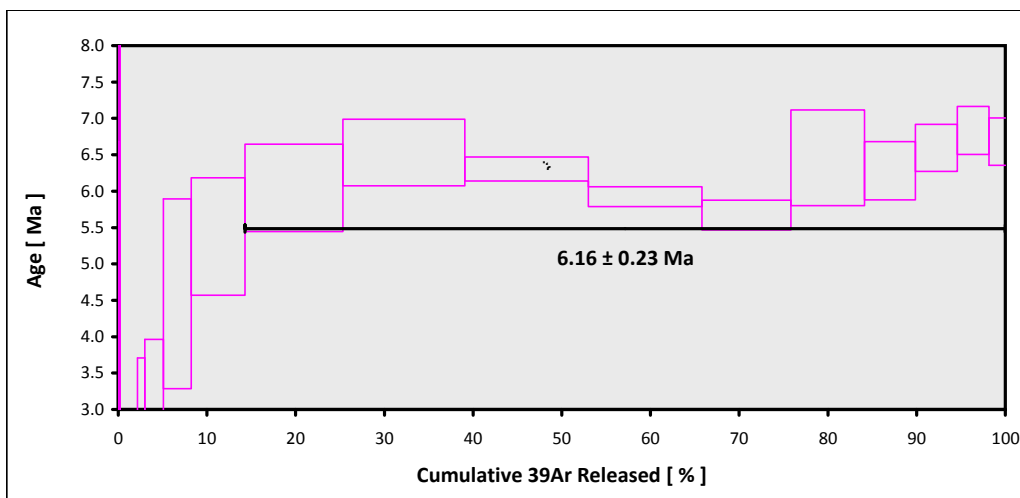


**EXP#13D04126 > MV1203-D44-07 (212-300) > Plagioclase > MV1203 (13-INT-04)
 WALVIS RIDGE > BLUE SEAMOUNT
 13-OSU-05 > Incremental Heating > Susan Schnur**

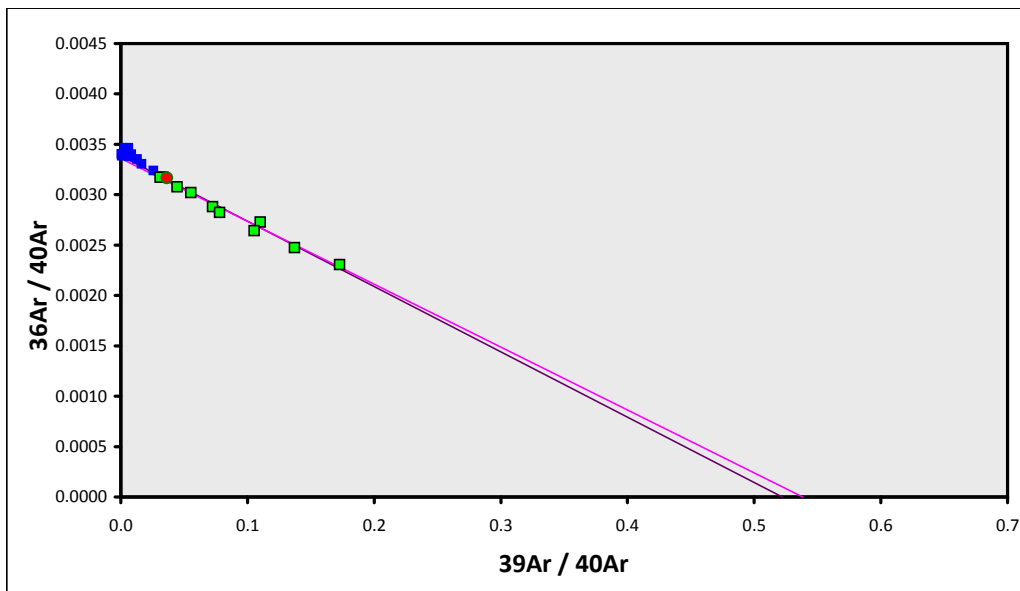
**Information on Analysis
 and Constants Used in Calculations**

Project = **MV1203 (13-INT-04)**
 Sample = **MV1203-D44-07 (212-300)**
 Material = **Plagioclase**
 Location = **Blue Seamount**
 Region = **Walvis Ridge**
 Analyst = **Susan Schnur**
 Irradiation = **13-OSU-05**
 Position = X: | Y: | Z/H: **6.72 mm**
 FCT-NM Age = **28.201 ± 0.023 Ma**
 FCT-NM Reference = **Kuiper et al (2008)**
 FCT-NM 40Ar/39Ar Ratio = **8.82975 ± 0.01157**
 FCT-NM J-value = **0.00178005 ± 0.00000233**
 Air Shot 40Ar/36Ar = **302.7510 ± 0.2846**
 Air Shot MDF = **0.99400467 ± 0.00062294 (LIN)**
 Experiment Type = **Incremental Heating**
 Extraction Method = **Bulk Laser Heating**
 Heating = **70 sec**
 Isolation = **5.52 min**
 Instrument = **ARGUS-VI-D**
 Preferred Age = **Plateau Age**
 Age Classification = **Eruption Age**
 IGSN = **IESRS0008**
 Rock Class = **Igneous>Volcanic>Mafic**
 Lithology = **Trachybasalt**
 Lat-Lon = **40°17.2'S - 13°13.3'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	40(a)/36(a) ± 2σ	40(r)/39(k) ± 2σ	Age ± 2σ (Ma)	MSWD	39Ar(k) (%n)	K/Ca ± 2σ
Age Plateau						
Error Mean		1.91556 ± 0.07193 ± 3.76%	6.16 ± 0.23 ± 3.76%	8.43	85.70	0.0214 ± 0.0002
			Full External Error ± 0.27	0%	10	
			Analytical Error ± 0.23	1.94	2σ Confidence Limit	
				2.9032	Error Magnification	
Total Fusion Age		1.76747 ± 0.04777 ± 2.70%	5.68 ± 0.15 ± 2.71%		20	0.0213 ± 0.0001
			Full External Error ± 0.20			
			Analytical Error ± 0.15			
Normal Isochron	297.76 ± 3.80	1.85372 ± 0.12077 ± 6.52%	5.96 ± 0.39 ± 6.51%	8.04	85.70	
Error Chron	± 1.28%			0%	10	
			Full External Error ± 0.41	2.00	2σ Confidence Limit	
			Analytical Error ± 0.39	2.8347	Error Magnification	
Inverse Isochron	297.76 ± 3.82	1.85734 ± 0.12072 ± 6.50%	5.97 ± 0.39 ± 6.49%	8.06	85.70	
Error Chron	± 1.28%			0%	10	
			Full External Error ± 0.41	2.00	2σ Confidence Limit	
			Analytical Error ± 0.39	2.8385	Error Magnification	
				26%	Spreading Factor	



Bumpy, high MSWD, but the 40/36 is Good plateau.
 Combine with 106-212 experiment.

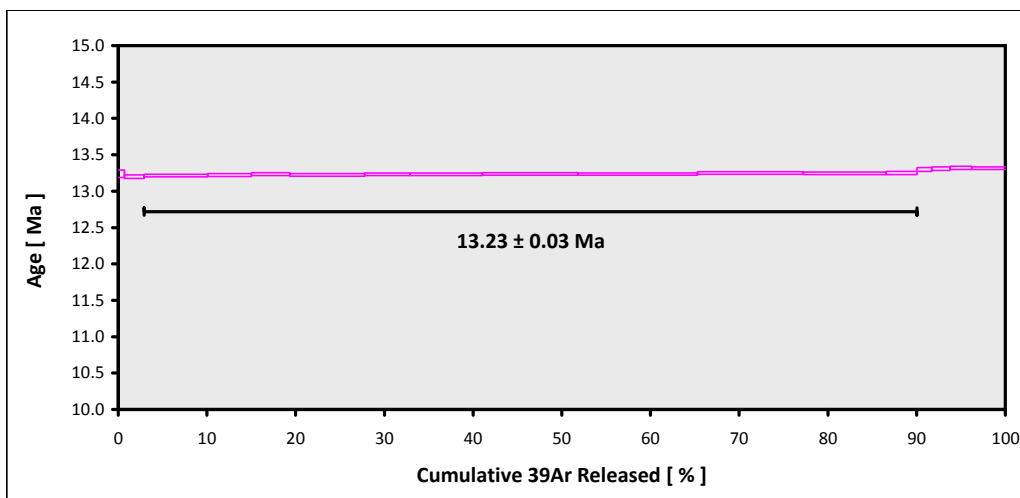


EXP#13D04154 > MV1203-D43A-01 > K Feldspar > MV1203 (13-INT-04)
WALVIS RIDGE > CRAWFORD GUYOT
13-OSU-05 > Incremental Heating > Susan Schnur

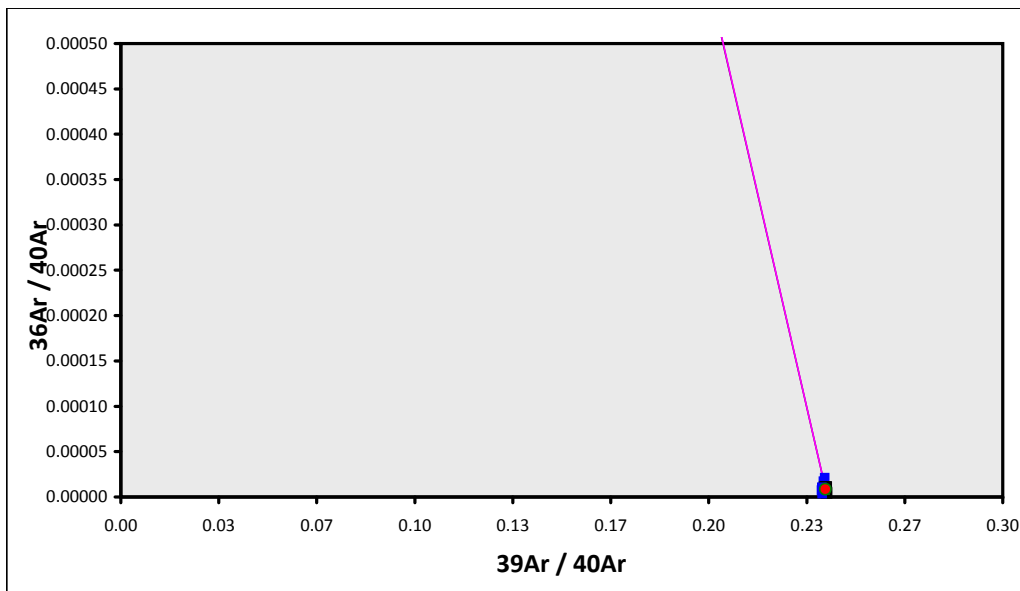
**Information on Analysis
 and Constants Used in Calculations**

Project = **MV1203 (13-INT-04)**
 Sample = **MV1203-D43A-01**
 Material = **K Feldspar**
 Location = **Crawford Guyot**
 Region = **Walvis Ridge**
 Analyst = **Susan Schnur**
 Irradiation = **13-OSU-05**
 Position = X: | Y: | Z/H: **13.75 mm**
 FCT-NM Age = **28.201 ± 0.023 Ma**
 FCT-NM Reference = **Kuiper et al (2008)**
 FCT-NM 40Ar/39Ar Ratio = **8.90119 ± 0.01157**
 FCT-NM J-value = **0.00176576 ± 0.00000230**
 Air Shot 40Ar/36Ar = **302.7520 ± 0.2846**
 Air Shot MDF = **0.99400386 ± 0.00062294 (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 = **IESRS0009**
 Rock Class = **Igneous>Volcanic>Mafic**
 Lithology = **Trachyte**
 Lat-Lon = **38°46.3'S - 10°41.4'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	40(a)/36(a) ± 2σ	40(r)/39(k) ± 2σ	Age ± 2σ (Ma)	MSWD	39Ar(k) (%n)	K/Ca ± 2σ
Age Plateau		4.15987 ± 0.00219 ± 0.05%	13.23 ± 0.03 ± 0.26%	1.65	87.11	3.02 ± 0.21
			Full External Error ± 0.30	9%	11	
			Analytical Error ± 0.01	1.89	2σ Confidence Limit	
				1.2854	Error Magnification	
Total Fusion Age		4.16237 ± 0.00161 ± 0.04%	13.24 ± 0.03 ± 0.26%		17	3.03 ± 0.04
			Full External Error ± 0.30			
			Analytical Error ± 0.01			
Normal Isochron	303.49 ± 228.85 ± 75.40%	4.15937 ± 0.00808 ± 0.19%	13.23 ± 0.04 ± 0.32%	1.82	87.11	
			Full External Error ± 0.30	6%	11	
			Analytical Error ± 0.03	1.94	2σ Confidence Limit	
				1.3495	Error Magnification	
Inverse Isochron	294.80 ± 154.49 ± 52.41%	4.15990 ± 0.00811 ± 0.19%	13.23 ± 0.04 ± 0.32%	1.84	87.11	
Clustered Points			Full External Error ± 0.30	6%	11	
			Analytical Error ± 0.03	1.94	2σ Confidence Limit	
				1.3550	Error Magnification	
				0%	Spreading Factor	



Good plateau

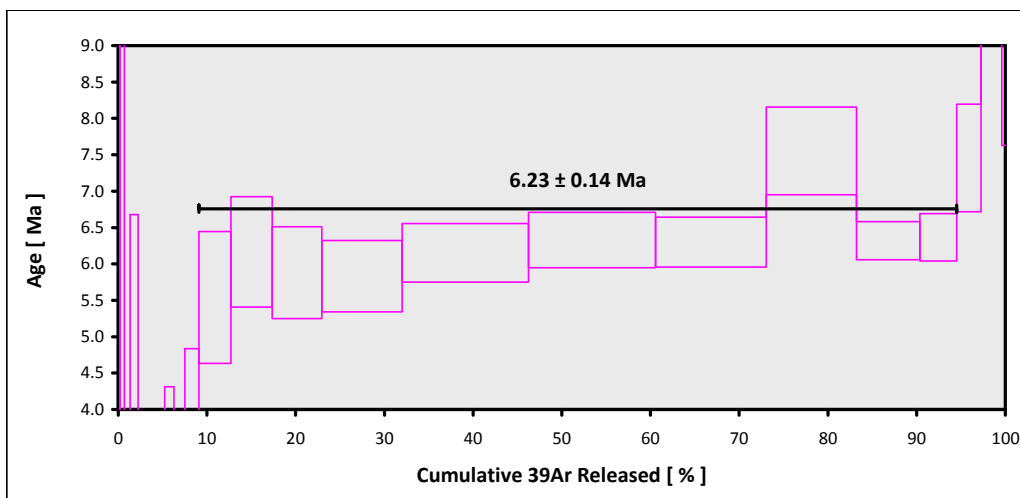


**EXP#13D04188 > MV1203-D44-07 (106-212) > Plagioclase > MV1203 (13-INT-04)
 WALVIS RIDGE > BLUE SEAMOUNT
 13-OSU-05 > Incremental Heating > Susan Schnur**

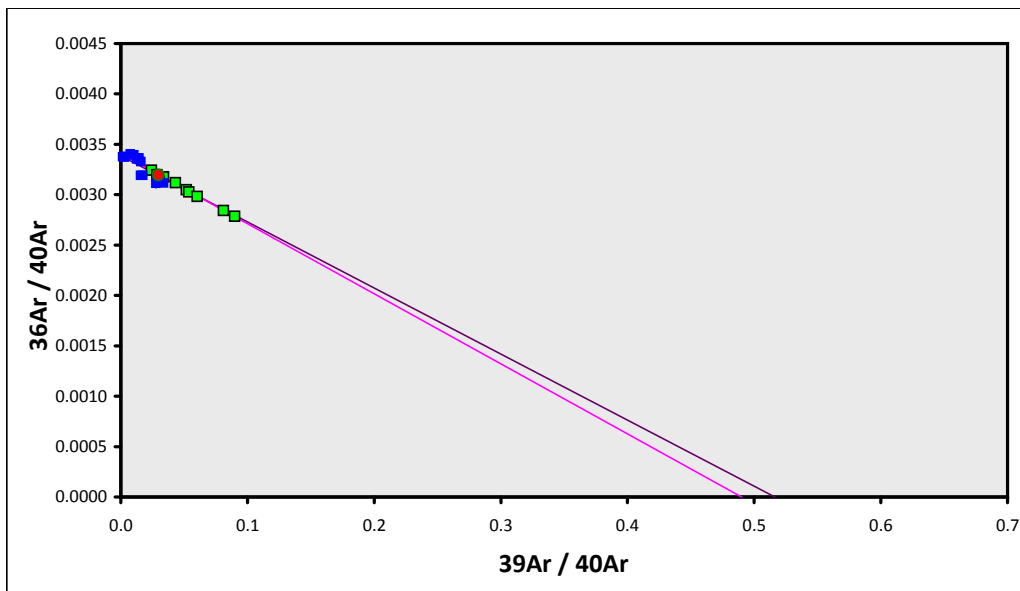
**Information on Analysis
 and Constants Used in Calculations**

Project = **MV1203 (13-INT-04)**
 Sample = **MV1203-D44-07 (106-212)**
 Material = **Plagioclase**
 Location = **Blue Seamount**
 Region = **Walvis Ridge**
 Analyst = **Susan Schnur**
 Irradiation = **13-OSU-05**
 Position = X: | Y: | Z/H: 5.69 mm
 FCT-NM Age = **28.201 ± 0.023 Ma**
 FCT-NM Reference = **Kuiper et al (2008)**
 FCT-NM 40Ar/39Ar Ratio = **8.82132 ± 0.01156**
 FCT-NM J-value = **0.00178175 ± 0.00000233**
 Air Shot 40Ar/36Ar = **302.7540 ± 0.2846**
 Air Shot MDF = **0.99400225 ± 0.00062293 (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 = **IESRS0010**
 Rock Class = **Igneous>Volcanic>Mafic**
 Lithology = **Trachybasalt**
 Lat-Lon = **40°17.2'S - 13°13.3'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	40(a)/36(a) ± 2σ	40(r)/39(k) ± 2σ	Age ± 2σ (Ma)	MSWD	39Ar(k) (% _n)	K/Ca ± 2σ
Age Plateau		1.93642 ± 0.04187 ± 2.16%	6.23 ± 0.14 ± 2.17%	1.00 44%	75.23 9	0.0189 ± 0.0002
			Full External Error ± 0.20 Analytical Error ± 0.13	2.00 1.0000	2σ Confidence Limit Error Magnification	
Total Fusion Age		1.87615 ± 0.05435 ± 2.90%	6.03 ± 0.18 ± 2.90%		23	0.0190 ± 0.0001
			Full External Error ± 0.22 Analytical Error ± 0.17			
Normal Isochron	293.47 ± 1.78 ± 0.61%	2.04094 ± 0.10056 ± 4.93%	6.56 ± 0.32 ± 4.93%	0.41 90%	75.23 9	
			Full External Error ± 0.36 Analytical Error ± 0.32	2.07 1.0000	2σ Confidence Limit Error Magnification	
Inverse Isochron	293.47 ± 1.78 ± 0.61%	2.04078 ± 0.10048 ± 4.92%	6.56 ± 0.32 ± 4.92%	0.41 90%	75.23 9	
			Full External Error ± 0.36 Analytical Error ± 0.32	2.07 1.0000	2σ Confidence Limit Error Magnification	13% Spreading Factor



Concordant with 212-300 fraction, but cleaner. Exclude bumps for a Good plateau plateau.

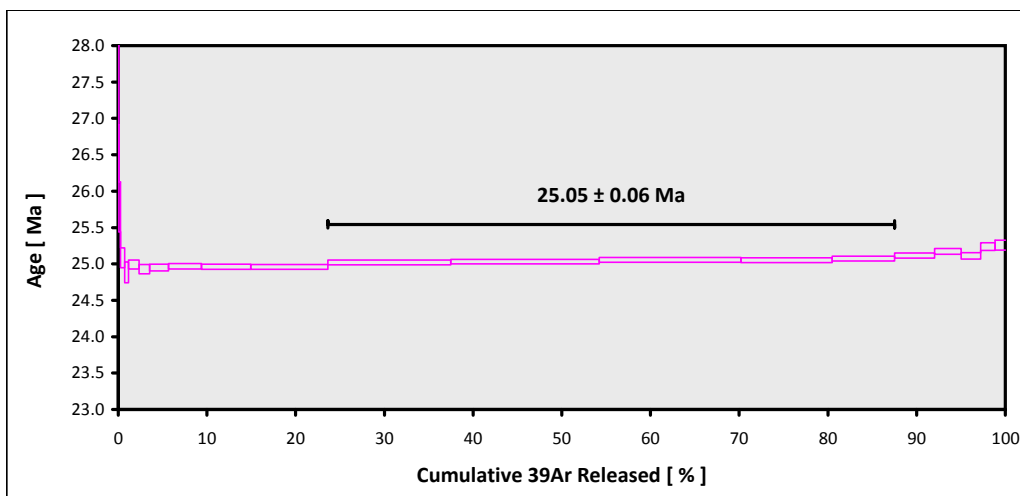


EXP#13D04220 > MV1203-D40-02 > Plagioclase > MV1203 (13-INT-04)
WALVIS RIDGE > DUSKY GUYOT
13-OSU-05 > Incremental Heating > Susan Schnur

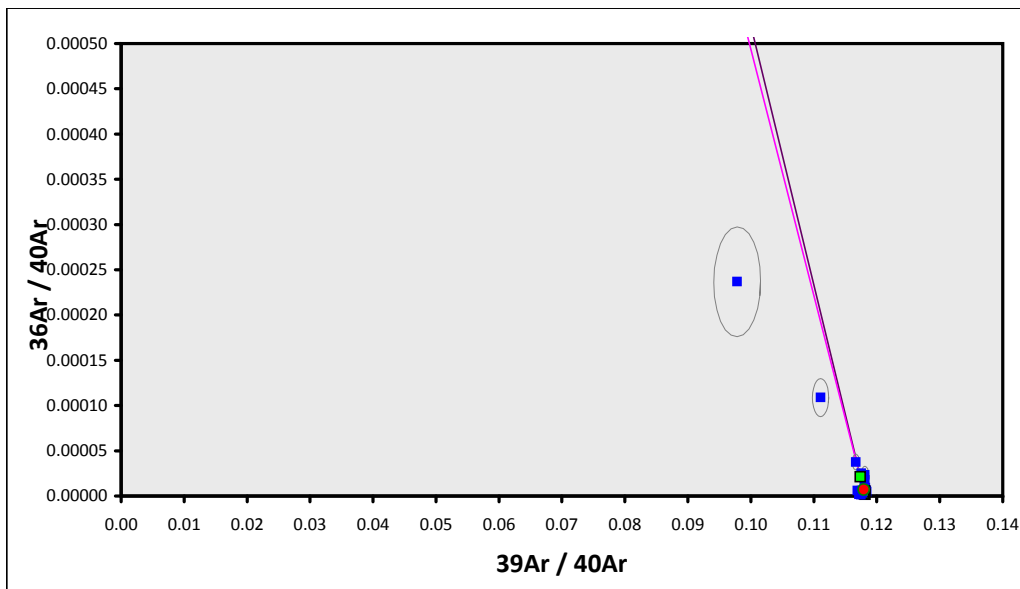
Information on Analysis and Constants Used in Calculations

Project = **MV1203 (13-INT-04)**
 Sample = **MV1203-D40-02**
 Material = **Plagioclase**
 Location = **Dusky Guyot**
 Region = **Walvis Ridge**
 Analyst = **Susan Schnur**
 Irradiation = **13-OSU-05**
 Position = X: | Y: | Z/H: **45.95 mm**
 FCT-NM Age = **28.201 ± 0.023 Ma**
 FCT-NM Reference = **Kuiper et al (2008)**
 FCT-NM 40Ar/39Ar Ratio = **9.53809 ± 0.01154**
 FCT-NM J-value = **0.00164786 ± 0.00000199**
 Air Shot 40Ar/36Ar = **302.7550 ± 0.2846**
 Air Shot MDF = **0.99400144 ± 0.00062293 (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 = **IESRS0011**
 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 = **40Ar 36Ar**
 Decay 40K = **5.530 ± 0.048 E-10 1/a**
 Decay 39Ar = **2.940 ± 0.016 E-07 1/h**
 Decay 37Ar = **8.230 ± 0.012 E-04 1/h**
 Decay 36Cl = **2.257 ± 0.015 E-06 1/a**
 Decay 40K(EC,β*) = **0.580 ± 0.009 E-10 1/a**
 Decay 40K(β-) = **4.950 ± 0.043 E-10 1/a**
 Atmospheric 40/36(a) = **295.50**
 Atmospheric 38/36(a) = **0.1869**
 Production 39/37(ca) = **0.0006756 ± 0.0000089**
 Production 38/37(ca) = **0.0000718 ± 0.0000092**
 Production 36/37(ca) = **0.0002663 ± 0.0000004**
 Production 40/39(k) = **0.003823 ± 0.000102**
 Production 38/39(k) = **0.012031 ± 0.000019**
 Production 36/38(cl) = **262.80 ± 1.71**
 Scaling Ratio K/Ca = **0.430**
 Abundance Ratio 40K/K = **1.1700 ± 0.0100 E-04**
 Atomic Weight K = **39.0983 ± 0.0001 g**

Results	40(a)/36(a) ± 2σ	40(r)/39(k) ± 2σ	Age ± 2σ (Ma)	MSWD	39Ar(k) (%),n	K/Ca ± 2σ
Age Plateau		8.46367 ± 0.00623 ± 0.07%	25.05 ± 0.06 ± 0.25%	1.57 18%	63.86 5	0.379 ± 0.056
			Full External Error ± 0.57 Analytical Error ± 0.02	2.41 1.2527	2σ Confidence Limit Error Magnification	
Total Fusion Age		8.46210 ± 0.00368 ± 0.04%	25.04 ± 0.06 ± 0.24%		20	0.360 ± 0.001
			Full External Error ± 0.57 Analytical Error ± 0.01			
Normal Isochron	336.80 ± 119.00 ± 35.33%	8.45925 ± 0.01035 ± 0.12%	25.03 ± 0.07 ± 0.27%	2.14 9%	63.86 5	
			Full External Error ± 0.57 Analytical Error ± 0.03	2.63 1.4645	2σ Confidence Limit Error Magnification	
Inverse Isochron	311.16 ± 110.25 ± 35.43%	8.46275 ± 0.00989 ± 0.12%	25.04 ± 0.07 ± 0.27%	2.04 11%	63.86 5	
Clustered Points			Full External Error ± 0.57 Analytical Error ± 0.03	2.63 1.4291	2σ Confidence Limit Error Magnification	
				1%	Spreading Factor	



Low T steps a little odd, not great but acceptable. Weak excess argon signature.

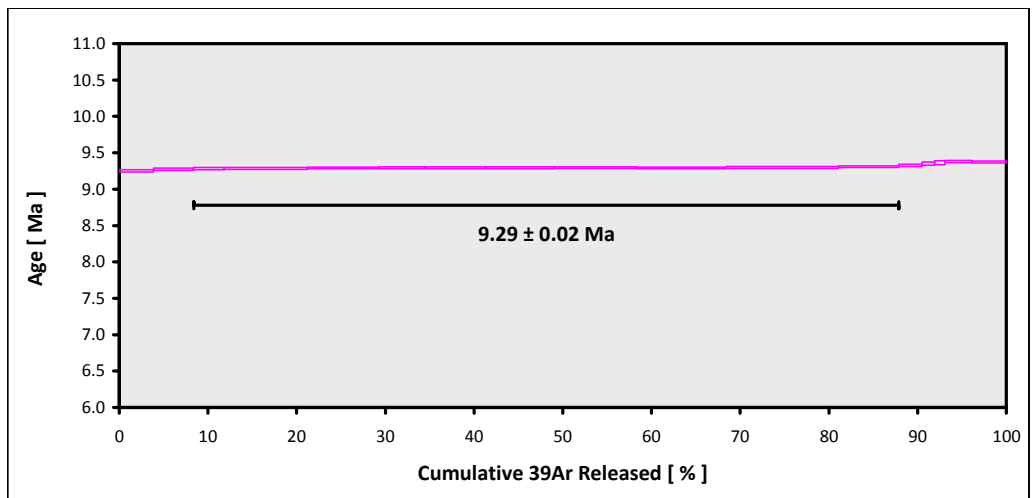


EXP#13D04248 > MV1203-D42-17 > K Feldspar > MV1203 (13-INT-04)
WALVIS RIDGE > ESK GUYOT
13-OSU-05 > Incremental Heating > Susan Schnur

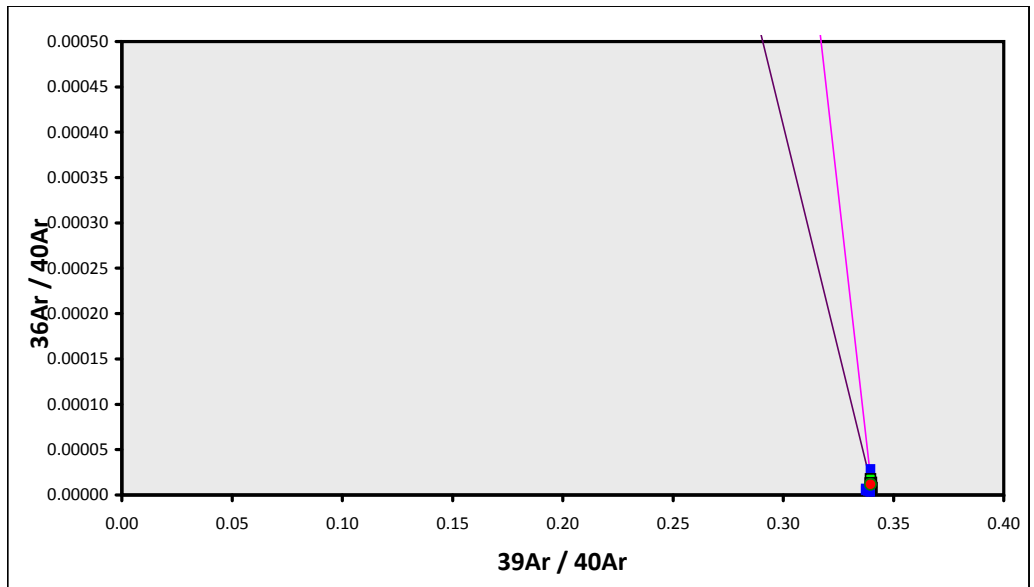
**Information on Analysis
 and Constants Used in Calculations**

Project = **MV1203 (13-INT-04)**
 Sample = **MV1203-D42-17**
 Material = **K Feldspar**
 Location = **Esk Guyot**
 Region = **Walvis Ridge**
 Analyst = **Susan Schnur**
 Irradiation = **13-OSU-05**
 Position = X: | Y: | Z/H: **17.16 mm**
 FCT-NM Age = **28.201 ± 0.023 Ma**
 FCT-NM Reference = **Kuiper et al (2008)**
 FCT-NM 40Ar/39Ar Ratio = **8.94456 ± 0.01154**
 FCT-NM J-value = **0.00175720 ± 0.00000227**
 Air Shot 40Ar/36Ar = **302.7560 ± 0.2846**
 Air Shot MDF = **0.99400063 ± 0.00062293 (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 = **IESRS0012**
 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	40(a)/36(a) ± 2σ	40(r)/39(k) ± 2σ	Age ± 2σ (Ma)	MSWD	39Ar(k) (%n)	K/Ca ± 2σ
Age Plateau		2.93232 ± 0.00141 ± 0.05%	9.29 ± 0.02 ± 0.26%	1.22	79.49	3.32 ± 0.24
			Full External Error ± 0.21	27%	10	
			Analytical Error ± 0.00	1.94	2σ Confidence Limit	
				1.1067	Error Magnification	
Total Fusion Age		2.93417 ± 0.00111 ± 0.04%	9.30 ± 0.02 ± 0.26%		17	3.30 ± 0.03
			Full External Error ± 0.21			
			Analytical Error ± 0.00			
Normal Isochron	99.31 ± 129.91 #####	2.93885 ± 0.00448 ± 0.15%	9.31 ± 0.03 ± 0.30%	0.77	79.49	
			Full External Error ± 0.21	63%	10	
			Analytical Error ± 0.01	2.00	2σ Confidence Limit	
				1.0000	Error Magnification	
Inverse Isochron		2.93753 ± 0.00449 ± 0.15%	9.31 ± 0.03 ± 0.30%	0.73	79.49	
Clustered Points	137.19 ± 86.88 ± 63.33%		Full External Error ± 0.21	67%	10	
			Analytical Error ± 0.01	2.00	2σ Confidence Limit	
				1.0000	Error Magnification	
				0%	Spreading Factor	



Good plateau, weak excess argon signature at high T.

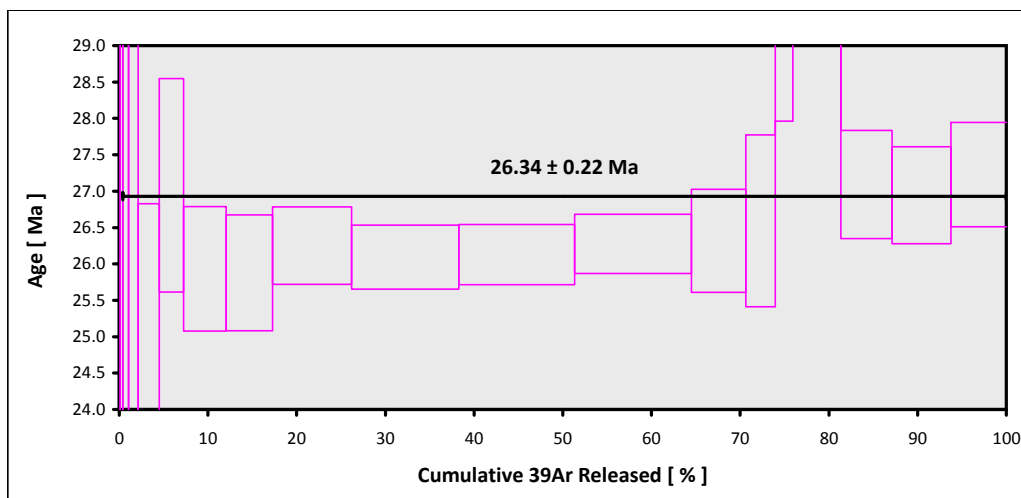


**EXP#13D04282 > MV1203-D38-02B > Plagioclase > MV1203 (13-INT-04)
 WALVIS RIDGE > HECTOR GUYOT
 13-OSU-05 > Incremental Heating > Susan Schnur**

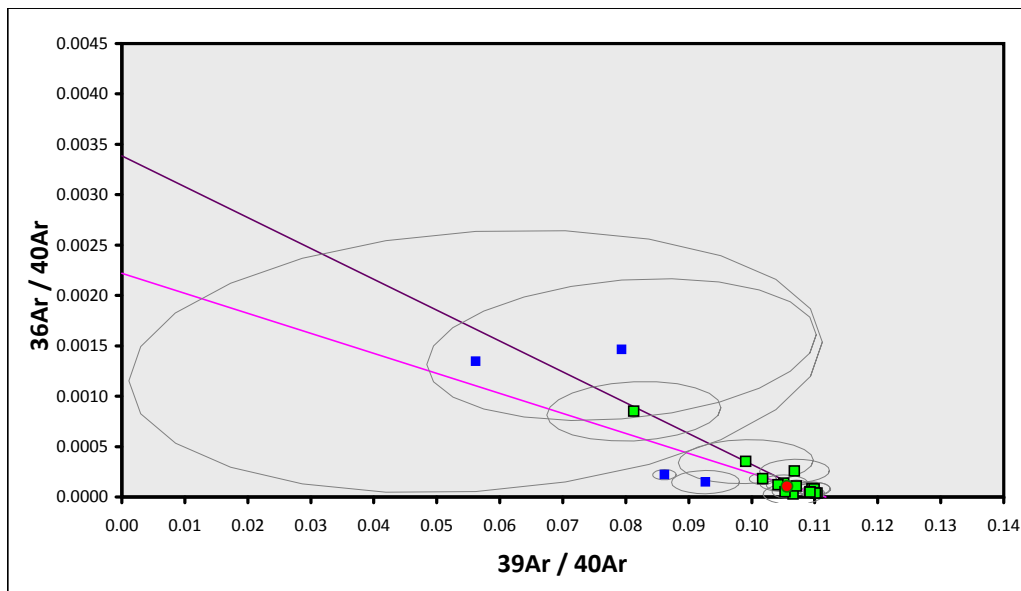
**Information on Analysis
 and Constants Used in Calculations**

Project = **MV1203 (13-INT-04)**
 Sample = **MV1203-D38-02B**
 Material = **Plagioclase**
 Location = **Hector Guyot**
 Region = **Walvis Ridge**
 Analyst = **Susan Schnur**
 Irradiation = **13-OSU-05**
 Position = **X: 0 | Y: 0 | Z/H: 49.1 mm**
 FCT-NM Age = **28.020 ± 0.040 Ma**
 FCT-NM Reference = **Kuiper et al (2008)**
 FCT-NM 40Ar/39Ar Ratio = **9.62770 ± 0.01155**
 FCT-NM J-value = **0.00162196 ± 0.00000195**
 Air Shot 40Ar/36Ar = **302.7590 ± 0.2846**
 Air Shot MDF = **0.99399821 ± 0.00062292 (LIN)**
 Experiment Type = **Incremental Heating**
 Extraction Method = **Bulk Laser Heating**
 Heating = **77 sec**
 Isolation = **6.00 min**
 Instrument = **ARGUS-VI-D**
 Preferred Age = **Plateau Age**
 Age Classification = **Eruption Age**
 IGSN = **IESRS0013**
 Rock Class = **Igneous>Volcanic>Mafic**
 Lithology = **Basalt**
 Lat-Lon = **37°47.2'S - 8°52.3'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	40(a)/36(a) ± 2σ	40(r)/39(k) ± 2σ	Age ± 2σ (Ma)	MSWD	39Ar(k) (%n)	K/Ca ± 2σ
Age Plateau		9.04637 ± 0.07444 ± 0.82%	26.34 ± 0.22 ± 0.85%	1.53	92.24	0.0046 ± 0.0000
			Full External Error ± 0.64	9%	15	
			Analytical Error ± 0.22	1.76	2σ Confidence Limit	
				1.2387	Error Magnification	
Total Fusion Age		9.17383 ± 0.06558 ± 0.71%	26.71 ± 0.20 ± 0.75%		19	0.0046 ± 0.0000
			Full External Error ± 0.64			
			Analytical Error ± 0.19			
Normal Isochron	176.67 ± 169.75	9.14168 ± 0.12338 ± 1.35%	26.62 ± 0.36 ± 1.36%	2.44	92.24	
Error Chron	± 96.08%		Full External Error ± 0.70	0%	15	
			Analytical Error ± 0.36	1.78	2σ Confidence Limit	
				1.5614	Error Magnification	
Inverse Isochron	450.44 ± 148.16 ± 32.89%	8.94829 ± 0.12681 ± 1.42%	26.06 ± 0.37 ± 1.43%	1.12	92.24	
			Full External Error ± 0.70	34%	15	
			Analytical Error ± 0.37	1.78	2σ Confidence Limit	
				1.0562	Error Magnification	
				26%	Spreading Factor	



Strange high-age blip towards end but Plateau is otherwise fine. Could be melt inclusion.

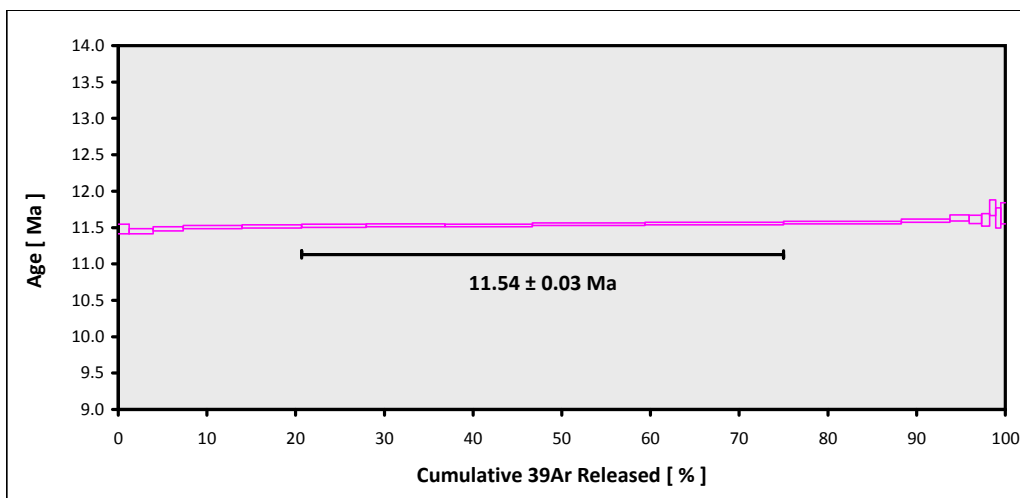


EXP#13D04309 > MV1203-D43B-07 > Feldspar > MV1203 (13-INT-04)
WALVIS RIDGE > CRAWFORD GUYOT
13-OSU-05 > Incremental Heating > Susan Schnur

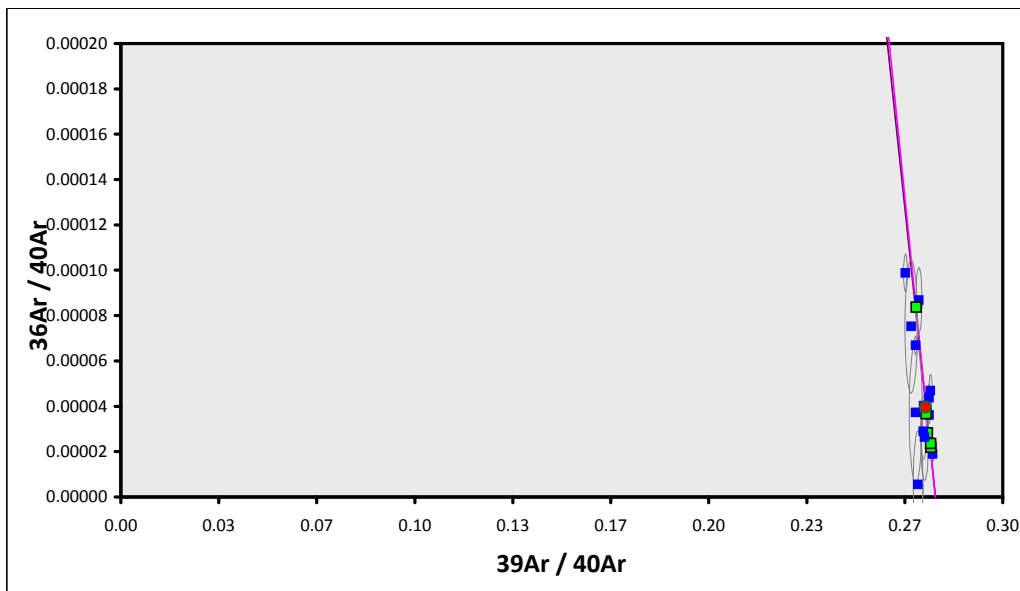
**Information on Analysis
 and Constants Used in Calculations**

Project = **MV1203 (13-INT-04)**
 Sample = **MV1203-D43B-07**
 Material = **Feldspar**
 Location = **Crawford Guyot**
 Region = **Walvis Ridge**
 Analyst = **Susan Schnur**
 Irradiation = **13-OSU-05**
 Position = X: | Y: | Z/H: 9.86 mm
 FCT-NM Age = **28.201 ± 0.023 Ma**
 FCT-NM Reference = **Kuiper et al (2008)**
 FCT-NM 40Ar/39Ar Ratio = **8.85866 ± 0.01152**
 FCT-NM J-value = **0.00177424 ± 0.00000231**
 Air Shot 40Ar/36Ar = **302.7600 ± 0.2846**
 Air Shot MDF = **0.99399740 ± 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 = **Plateau Age**
 Age Classification = **Eruption Age**
 IGSN = **IESRS0014**
 Rock Class = **Igneous>Volcanic>Mafic**
 Lithology = **Trachyte**
 Lat-Lon = **38°46.5'S - 10°41.3'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	40(a)/36(a) ± 2σ	40(r)/39(k) ± 2σ	Age ± 2σ (Ma)	MSWD	39Ar(k) (%n)	K/Ca ± 2σ
Age Plateau		3.60783 ± 0.00365 ± 0.10%	11.54 ± 0.03 ± 0.28%	2.00 9%	54.33 5	0.364 ± 0.006
			Full External Error ± 0.26 Analytical Error ± 0.01	2.41 1.4127	2σ Confidence Limit Error Magnification	
Total Fusion Age		3.60968 ± 0.00192 ± 0.05%	11.54 ± 0.03 ± 0.26%		18	0.363 ± 0.001
			Full External Error ± 0.26 Analytical Error ± 0.01			
Normal Isochron	303.72 ± 59.82	3.60555 ± 0.00914 ± 0.25%	11.53 ± 0.04 ± 0.36%	3.10 3%	54.33 5	
Error Chron	± 19.69%		Full External Error ± 0.26 Analytical Error ± 0.03	2.63 1.7613	2σ Confidence Limit Error Magnification	
Inverse Isochron	281.80 ± 52.23	3.60962 ± 0.00799 ± 0.22%	11.54 ± 0.04 ± 0.34%	2.45 6%	54.33 5	
Clustered Points	± 18.53%		Full External Error ± 0.26 Analytical Error ± 0.03	2.63 1.5661	2σ Confidence Limit Error Magnification	2% Spreading Factor



Slanting slightly upwards but plateau is fine. Excess argon signature.

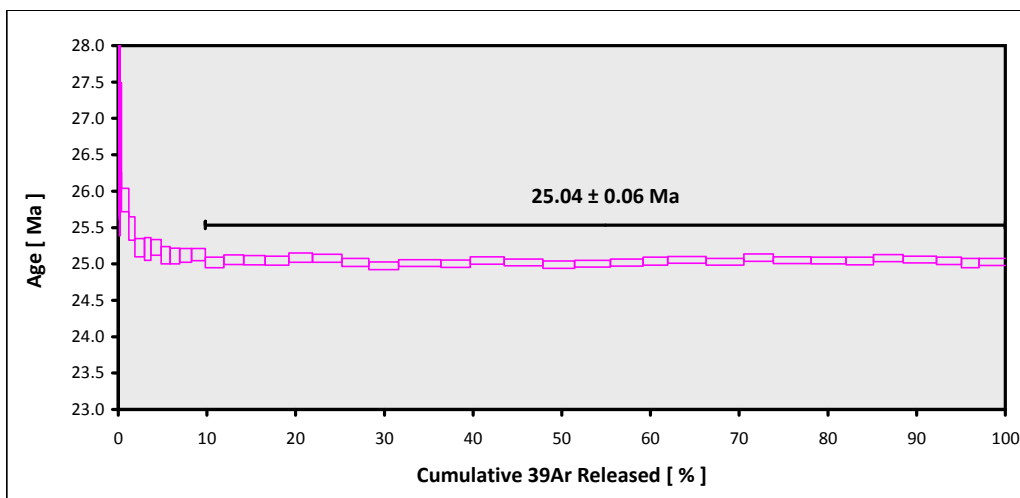


EXP#13D04334 > MV1203-D40-25 > Biotite > MV1203 (13-INT-04)
WALVIS RIDGE > DUSKY GUYOT
13-OSU-05 > Incremental Heating > Susan Schnur

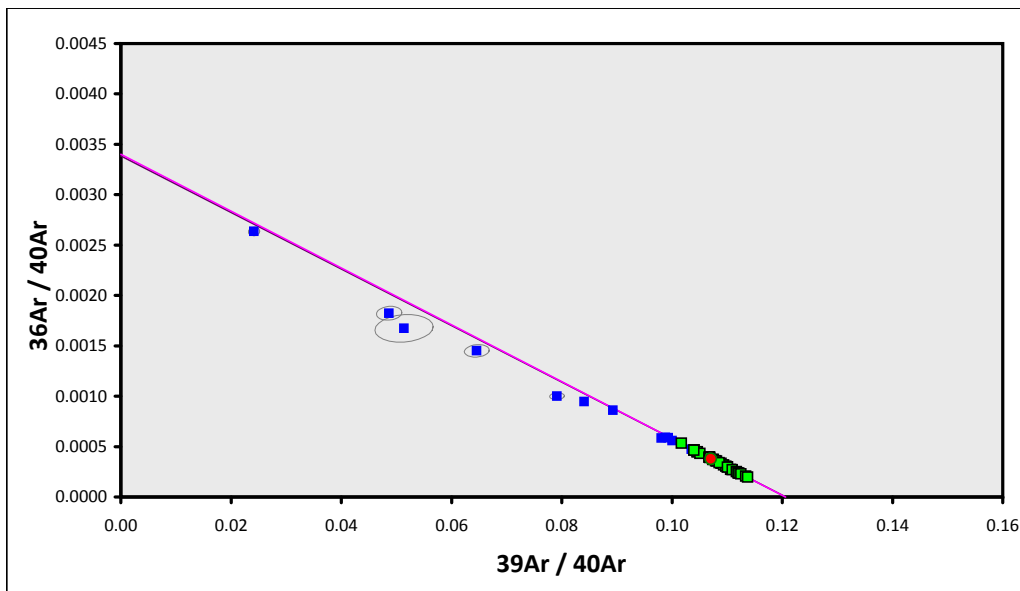
**Information on Analysis
 and Constants Used in Calculations**

Project = **MV1203 (13-INT-04)**
 Sample = **MV1203-D40-25**
 Material = **Biotite**
 Location = **Dusky Guyot**
 Region = **Walvis Ridge**
 Analyst = **Susan Schnur**
 Irradiation = **13-OSU-05**
 Position = X: | Y: | Z/H: **38.42 mm**
 FCT-NM Age = **28.201 ± 0.023 Ma**
 FCT-NM Reference = **Kuiper et al (2008)**
 FCT-NM 40Ar/39Ar Ratio = **9.34360 ± 0.01159**
 FCT-NM J-value = **0.00168216 ± 0.00000209**
 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 = **Plateau Age**
 Age Classification = **Eruption Age**
 IGSN = **IESRS0015**
 Rock Class = **Igneous>Volcanic>Mafic**
 Lithology = **Trachyte**
 Lat-Lon = **37°55.1'S - 6°53.2'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	40(a)/36(a) ± 2σ	40(r)/39(k) ± 2σ	Age ± 2σ (Ma)	MSWD	39Ar(k) (%n)	K/Ca ± 2σ
Age Plateau		8.28793 ± 0.00363 ± 0.04%	25.04 ± 0.06 ± 0.25%	1.21	90.18	4.3 ± 0.5
			Full External Error ± 0.57	21%	27	
			Analytical Error ± 0.01	1.55	2σ Confidence Limit	
				1.1008	Error Magnification	
Total Fusion Age		8.29728 ± 0.00332 ± 0.04%	25.06 ± 0.06 ± 0.25%		41	6.9 ± 0.3
			Full External Error ± 0.57			
			Analytical Error ± 0.01			
Normal Isochron	294.50 ± 4.50 ± 1.53%	8.29084 ± 0.01422 ± 0.17%	25.05 ± 0.07 ± 0.30%	1.24	90.18	
			Full External Error ± 0.57	19%	27	
			Analytical Error ± 0.04	1.57	2σ Confidence Limit	
				1.1148	Error Magnification	
Inverse Isochron	294.13 ± 4.49 ± 1.53%	8.29214 ± 0.01419 ± 0.17%	25.05 ± 0.07 ± 0.30%	1.24	90.18	
			Full External Error ± 0.57	19%	27	
			Analytical Error ± 0.04	1.57	2σ Confidence Limit	
				1.1142	Error Magnification	
				10%	Spreading Factor	



Low T steps are variable, but high T gives a Good plateau plateau.



EXP#13D04400 > MV1203-D42-08 > Biotite > MV1203 (13-INT-04)
WALVIS RIDGE > ESK GUYOT
13-OSU-05 > Incremental Heating > Susan Schnur

**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 = **Undefined**
 Age Classification = **Undefined**
 IGSN = **IESRS0016**
 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**

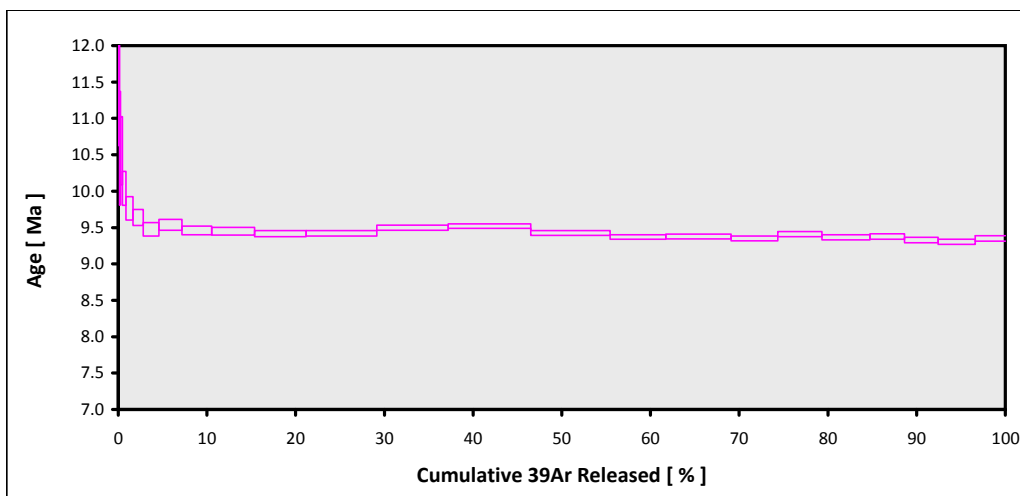
Results	40(a)/36(a) ± 2σ	40(r)/39(k) ± 2σ	Age ± 2σ (Ma)	MSWD	39Ar(k) (%n)	K/Ca ± 2σ
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Age Plateau
 Cannot Calculate

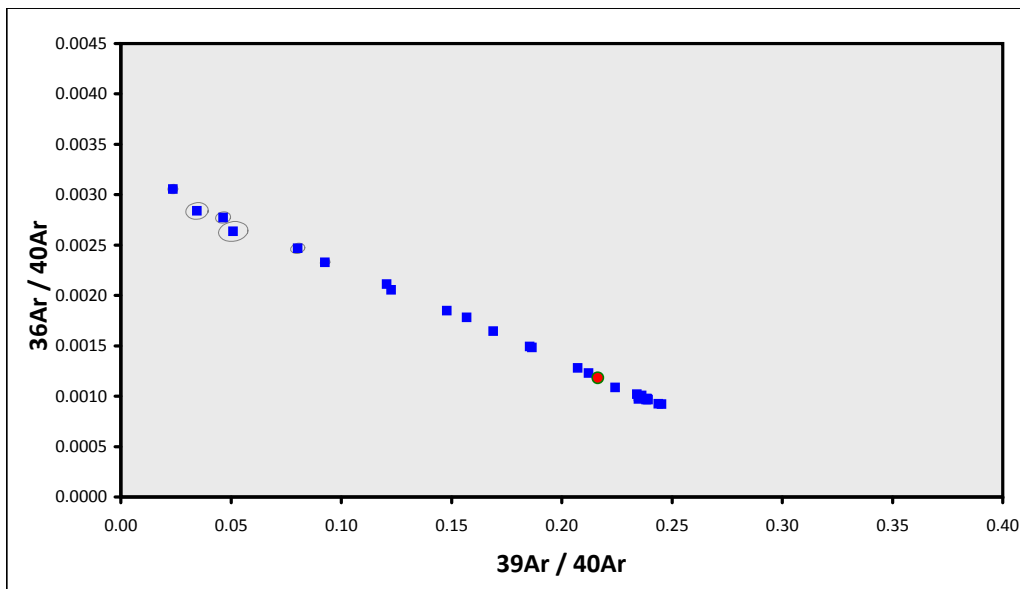
Total Fusion Age	3.00686 ± 0.00306 ± 0.10%	9.43 ± 0.03 ± 0.27%	27	76 ± 22		
		Full External Error ± 0.21				
		Analytical Error ± 0.01				

Normal Isochron
 Cannot Calculate

Inverse Isochron
 Cannot Calculate



Slanting downwards, bumpy, excess argon.

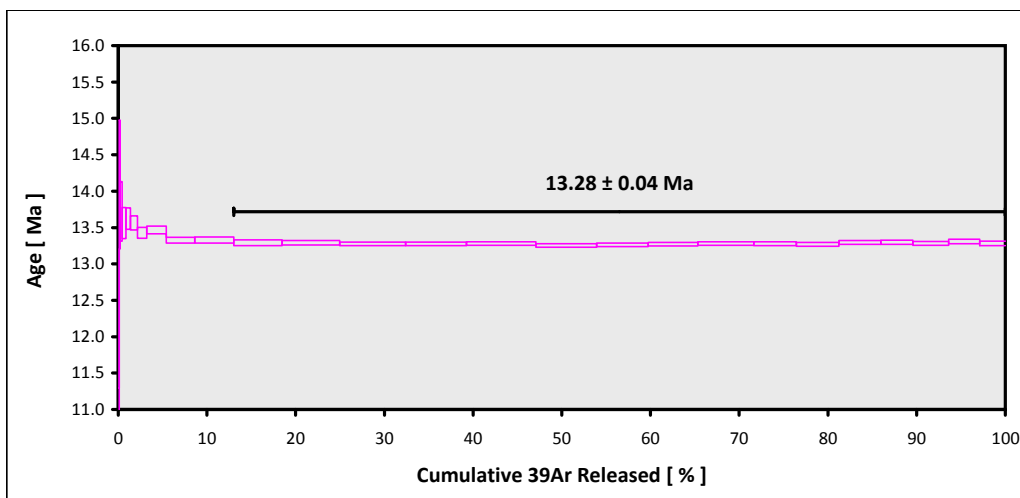


EXP#13D04437 > MV1203-D43A-01 > Biotite > MV1203 (13-INT-04)
WALVIS RIDGE > CRAWFORD GUYOT
13-OSU-05 > Incremental Heating > Susan Schnur

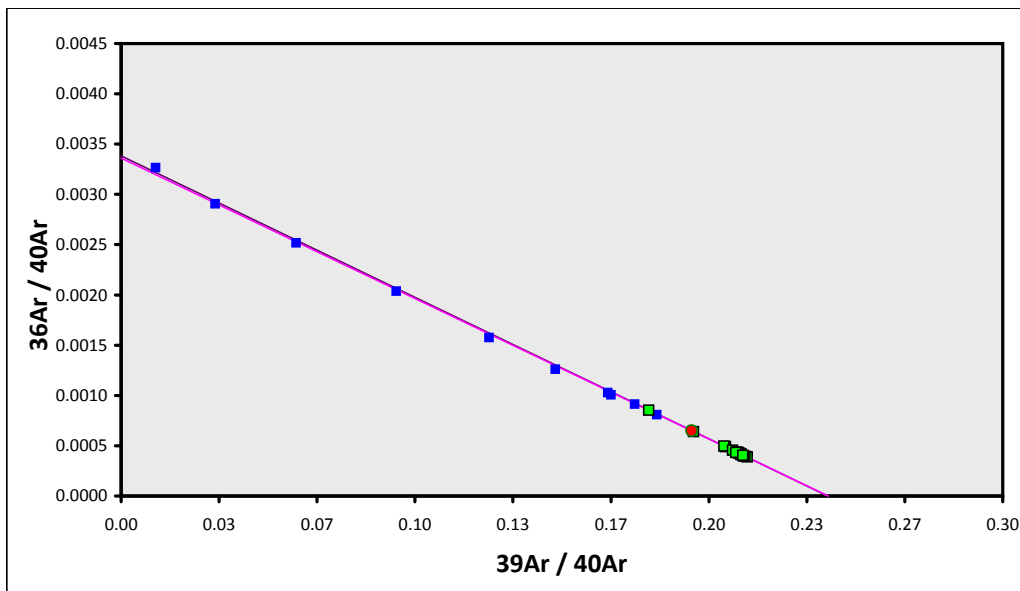
**Information on Analysis
 and Constants Used in Calculations**

Project = **MV1203 (13-INT-04)**
 Sample = **MV1203-D43A-01**
 Material = **Biotite**
 Location = **Crawford Guyot**
 Region = **Walvis Ridge**
 Analyst = **Susan Schnur**
 Irradiation = **13-OSU-05**
 Position = X: | Y: | Z/H: **11.07 mm**
 FCT-NM Age = **28.201 ± 0.023 Ma**
 FCT-NM Reference = **Kuiper et al (2008)**
 FCT-NM 40Ar/39Ar Ratio = **8.87110 ± 0.01153**
 FCT-NM J-value = **0.00177175 ± 0.00000230**
 Air Shot 40Ar/36Ar = **302.7830 ± 0.2846**
 Air Shot MDF = **0.99397885 ± 0.00062287 (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 = **IESRS0017**
 Rock Class = **Igneous>Volcanic>Mafic**
 Lithology = **Trachyte**
 Lat-Lon = **38°46.3'S - 10°41.4'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	40(a)/36(a) ± 2σ	40(r)/39(k) ± 2σ	Age ± 2σ (Ma)	MSWD	39Ar(k) (%n)	K/Ca ± 2σ
Age Plateau		4.15992 ± 0.00217 ± 0.05%	13.28 ± 0.04 ± 0.26%	1.09	86.98	69 ± 21
			Full External Error ± 0.30	36%	16	
			Analytical Error ± 0.01	1.73	2σ Confidence Limit	
				1.0446	Error Magnification	
Total Fusion Age		4.16362 ± 0.00225 ± 0.05%	13.29 ± 0.04 ± 0.26%		26	101 ± 38
			Full External Error ± 0.30			
			Analytical Error ± 0.01			
Normal Isochron	297.17 ± 3.92 ± 1.32%	4.15622 ± 0.00887 ± 0.21%	13.27 ± 0.04 ± 0.34%	1.09	86.98	
			Full External Error ± 0.30	36%	16	
			Analytical Error ± 0.03	1.76	2σ Confidence Limit	
				1.0441	Error Magnification	
Inverse Isochron	297.44 ± 3.93 ± 1.32%	4.15567 ± 0.00888 ± 0.21%	13.27 ± 0.04 ± 0.34%	1.09	86.98	
			Full External Error ± 0.30	36%	16	
			Analytical Error ± 0.03	1.76	2σ Confidence Limit	
				1.0451	Error Magnification	
				14%	Spreading Factor	



Good plateau

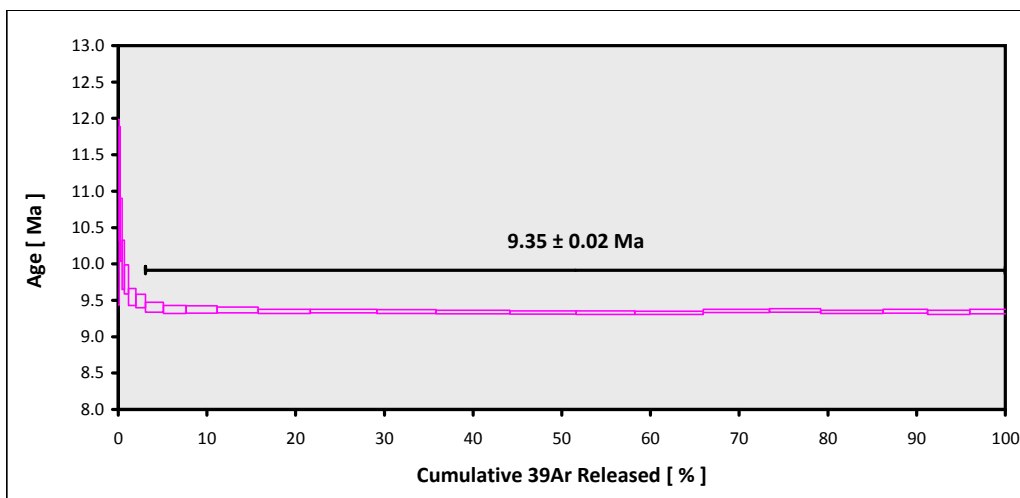


EXP#13D04484 > MV1203-D42-17 > Biotite > MV1203 (13-INT-04)
WALVIS RIDGE > ESK GUYOT
13-OSU-05 > Incremental Heating > Susan Schnur

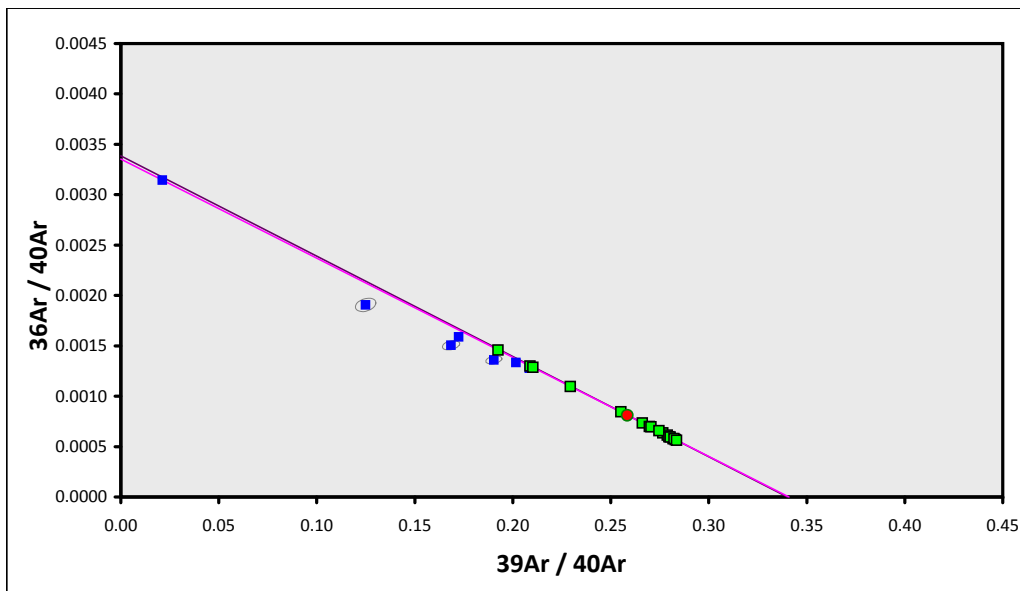
**Information on Analysis
 and Constants Used in Calculations**

Project = **MV1203 (13-INT-04)**
 Sample = **MV1203-D42-17**
 Material = **Biotite**
 Location = **Esk Guyot**
 Region = **Walvis Ridge**
 Analyst = **Susan Schnur**
 Irradiation = **13-OSU-05**
 Position = X: | Y: | Z/H: **15.21 mm**
 FCT-NM Age = **28.201 ± 0.023 Ma**
 FCT-NM Reference = **Kuiper et al (2008)**
 FCT-NM 40Ar/39Ar Ratio = **8.91906 ± 0.01151**
 FCT-NM J-value = **0.00176223 ± 0.00000227**
 Air Shot 40Ar/36Ar = **302.7780 ± 0.2816**
 Air Shot MDF = **0.99398288 ± 0.00062199 (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 = **IESRS0018**
 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	40(a)/36(a) ± 2σ	40(r)/39(k) ± 2σ	Age ± 2σ (Ma)	MSWD	39Ar(k) (%n)	K/Ca ± 2σ
Age Plateau		2.94023 ± 0.00207 ± 0.07%	9.35 ± 0.02 ± 0.27%	0.96	96.93	46.9 ± 6.8
			Full External Error ± 0.21 Analytical Error ± 0.01	1.71	2σ Confidence Limit Error Magnification	
Total Fusion Age		2.94487 ± 0.00224 ± 0.08%	9.36 ± 0.03 ± 0.27%		24	50.0 ± 7.6
			Full External Error ± 0.21 Analytical Error ± 0.01			
Normal Isochron	298.07 ± 2.15 ± 0.72%	2.93362 ± 0.00589 ± 0.20%	9.32 ± 0.03 ± 0.33%	0.62	96.93	
			Full External Error ± 0.21 Analytical Error ± 0.02	1.73	2σ Confidence Limit Error Magnification	
Inverse Isochron	298.15 ± 2.15 ± 0.72%	2.93345 ± 0.00589 ± 0.20%	9.32 ± 0.03 ± 0.33%	0.62	96.93	
			Full External Error ± 0.21 Analytical Error ± 0.02	1.0000	27% Error Magnification Spreading Factor	



Good plateau

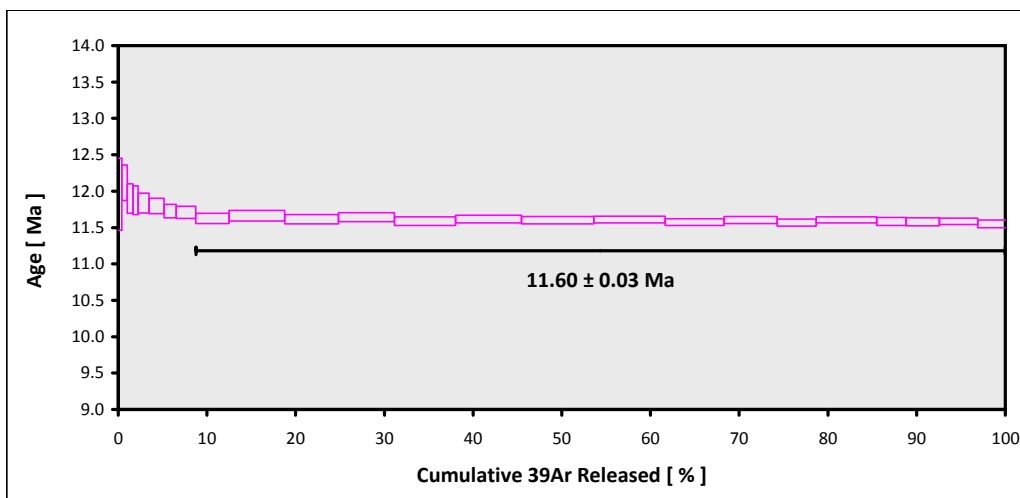


EXP#13D04517 > MV1203-D43B-07 > Biotite > MV1203 (13-INT-04)
WALVIS RIDGE > CRAWFORD GUYOT
13-OSU-05 > Incremental Heating > Susan Schnur

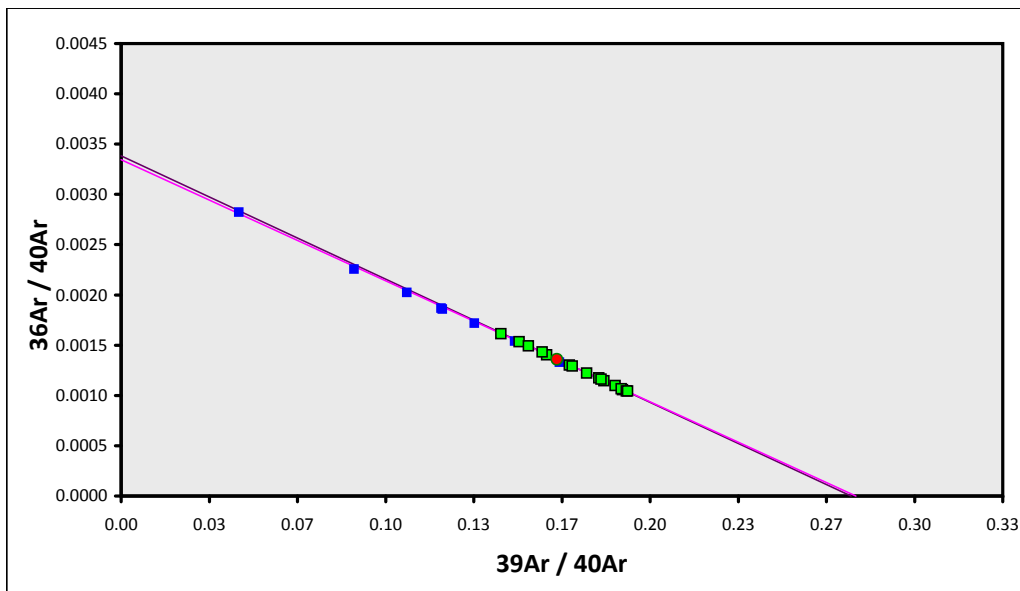
Information on Analysis and Constants Used in Calculations

Project = **MV1203 (13-INT-04)**
 Sample = **MV1203-D43B-07**
 Material = **Biotite**
 Location = **Crawford Guyot**
 Region = **Walvis Ridge**
 Analyst = **Susan Schnur**
 Irradiation = **13-OSU-05**
 Position = X: | Y: | Z/H: **9.31 mm**
 FCT-NM Age = **28.201 ± 0.023 Ma**
 FCT-NM Reference = **Kuiper et al (2008)**
 FCT-NM 40Ar/39Ar Ratio = **8.85325 ± 0.01151**
 FCT-NM J-value = **0.00177532 ± 0.00000231**
 Air Shot 40Ar/36Ar = **302.7800 ± 0.2816**
 Air Shot MDF = **0.99398127 ± 0.00062198 (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 = **IESRS0019**
 Rock Class = **Igneous>Volcanic>Mafic**
 Lithology = **Trachyte**
 Lat-Lon = **38°46.5'S - 10°41.3'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	40(a)/36(a) ± 2σ	40(r)/39(k) ± 2σ	Age ± 2σ (Ma)	MSWD	39Ar(k) (% ,n)	K/Ca ± 2σ
Age Plateau		3.62386 ± 0.00408 ± 0.11%	11.60 ± 0.03 ± 0.28% Full External Error ± 0.26 Analytical Error ± 0.01	0.96 50% 1.73 1.0000	91.25 16 2σ Confidence Limit Error Magnification	33.0 ± 4.3
Total Fusion Age		3.63184 ± 0.00425 ± 0.12%	11.62 ± 0.03 ± 0.28% Full External Error ± 0.26 Analytical Error ± 0.01		24	36.6 ± 5.6
Normal Isochron	299.10 ± 2.64 ± 0.88%	3.59882 ± 0.01878 ± 0.52%	11.52 ± 0.07 ± 0.58% Full External Error ± 0.27 Analytical Error ± 0.06	0.49 94% 1.76 1.0000	91.25 16 2σ Confidence Limit Error Magnification	
Inverse Isochron	299.08 ± 2.64 ± 0.88%	3.59899 ± 0.01877 ± 0.52%	11.52 ± 0.07 ± 0.58% Full External Error ± 0.27 Analytical Error ± 0.06	0.49 94% 1.76 1.0000	91.25 16 2σ Confidence Limit Error Magnification 17% Spreading Factor	



Slight downwards slant, but age seems acceptable.

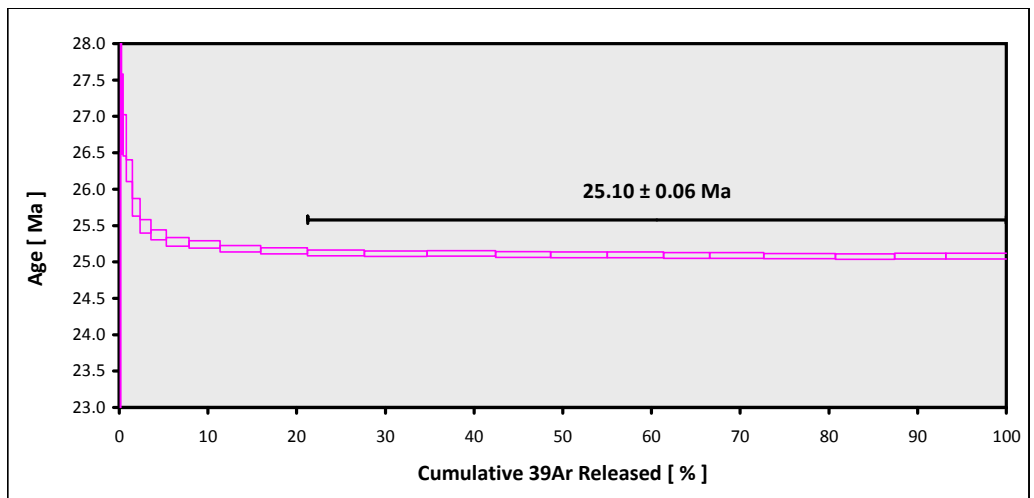


EXP#13D04550 > MV1203-D40-02 > Biotite > MV1203 (13-INT-04)
WALVIS RIDGE > DUSKY GUYOT
13-OSU-05 > Incremental Heating > Susan Schnur

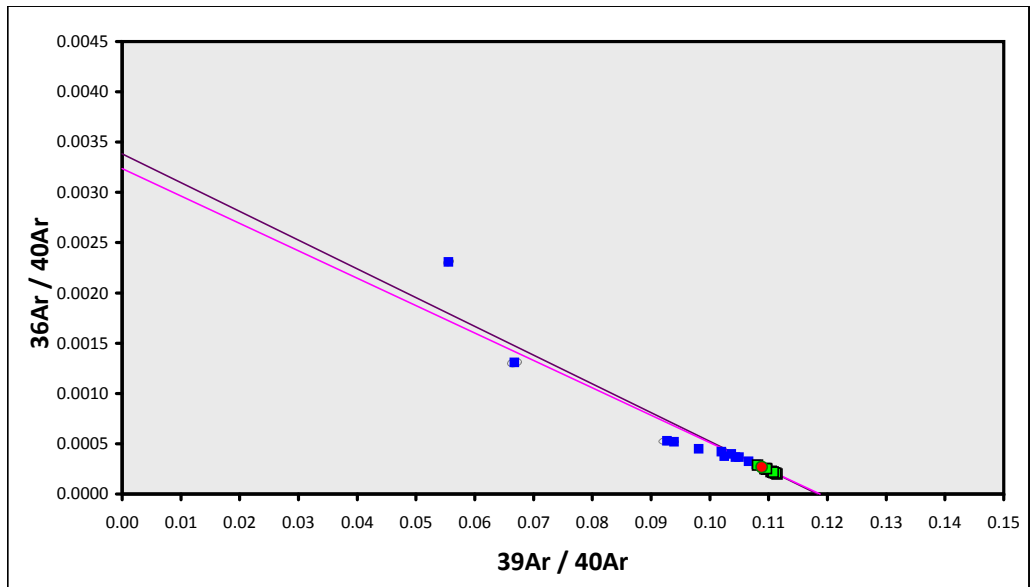
**Information on Analysis
 and Constants Used in Calculations**

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 = **IESRS0020**
 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 = **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) = **0.0006730**
 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		8.45056 ± 0.00374 ± 0.04%	25.10 ± 0.06 ± 0.22% Full External Error ± 0.57 Analytical Error ± 0.01	0.71 73% 1.85 1.0000	78.78 12 2σ Confidence Limit Error Magnification	26.6 ± 2.5
Total Fusion Age		8.46425 ± 0.00337 ± 0.04%	25.14 ± 0.06 ± 0.22% Full External Error ± 0.57 Analytical Error ± 0.01		24	30.0 ± 3.4
Normal Isochron	308.64 ± 15.56 ± 5.04%	8.42292 ± 0.03292 ± 0.39%	25.01 ± 0.11 ± 0.45% Full External Error ± 0.57 Analytical Error ± 0.10	0.48 91% 1.89 1.0000	78.78 12 2σ Confidence Limit Error Magnification	
Inverse Isochron Clustered Points	308.91 ± 15.54 ± 5.03%	8.42237 ± 0.03292 ± 0.39%	25.01 ± 0.11 ± 0.45% Full External Error ± 0.57 Analytical Error ± 0.10	0.48 91% 1.89 1.0000	78.78 12 2σ Confidence Limit Error Magnification 3% Spreading Factor	



Slight downwards slant, but age seems acceptable.



EXP#13D04841 > MV1203-D37-01 > Groundmass > MV1203 (13-INT-04)
WALVIS RIDGE > OMURA GUYOT
13-OSU-05 > Incremental Heating > Susan Schnur

Information on Analysis and Constants Used in Calculations

Project = **MV1203 (13-INT-04)**
 Sample = **MV1203-D37-01**
 Material = **Groundmass**
 Location = **Omura Guyot**
 Region = **Walvis Ridge**
 Analyst = **Susan Schnur**
 Irradiation = **13-OSU-05**
 Position = X: | Y: | Z/H: **68.5 mm**
 FCT-NM Age = **28.201 ± 0.023 Ma**
 FCT-NM Reference = **Kuiper et al (2008)**
 FCT-NM 40Ar/39Ar Ratio = **10.28683 ± 0.01152**
 FCT-NM J-value = **0.00152791 ± 0.00000171**
 Air Shot 40Ar/36Ar = **302.7610 ± 0.2846**
 Air Shot MDF = **0.99399660 ± 0.00062292 (LIN)**
 Experiment Type = **Incremental Heating**
 Extraction Method = **Bulk Laser Heating**
 Heating = **77 sec**
 Isolation = **5.52 min**
 Instrument = **ARGUS-VI-D**
 Preferred Age = **Undefined**
 Age Classification = **Undefined**
 IGSN = **IESRS0021**
 Rock Class = **Igneous>Volcanic>Mafic**
 Lithology = **Trachybasalt**
 Lat-Lon = **37°33.0'S - 8°27.1'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**

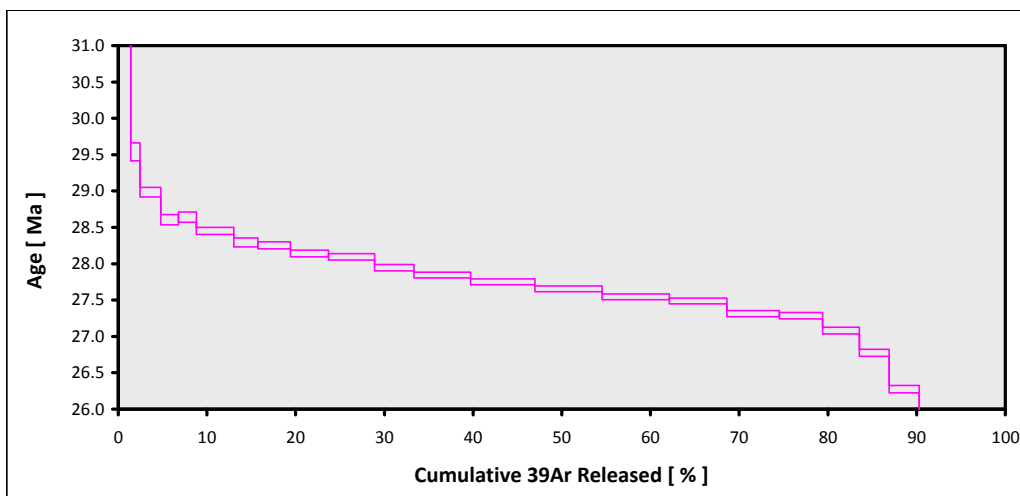
Results	40(a)/36(a) ± 2σ	40(r)/39(k) ± 2σ	Age ± 2σ (Ma)	MSWD	39Ar(k) (% ,n)	K/Ca ± 2σ
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Age Plateau
 Cannot Calculate

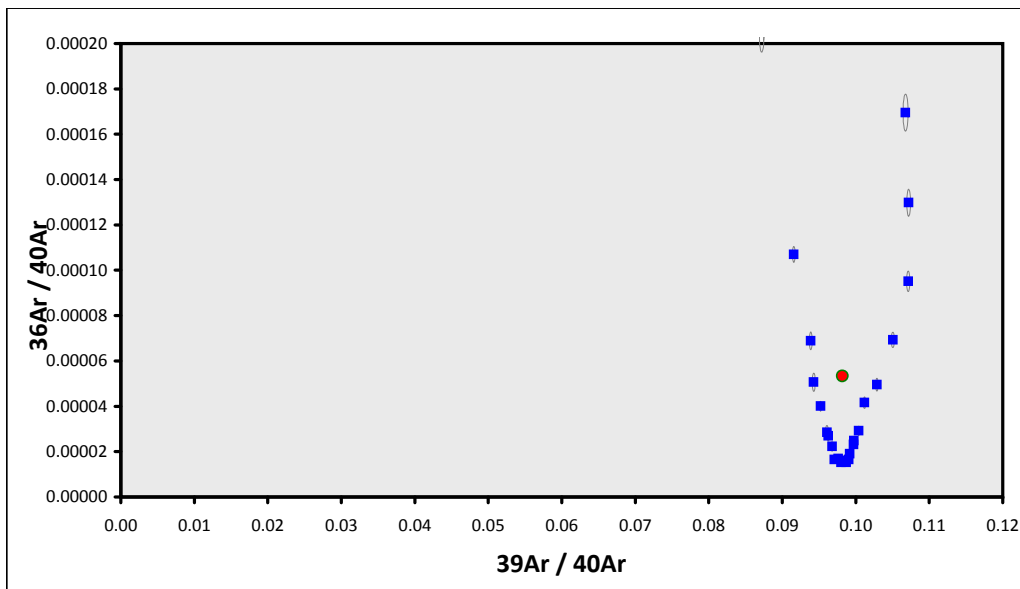
Total Fusion Age	10.02645 ± 0.00373 ± 0.04%	27.49 ± 0.06 ± 0.23%	27		27	0.289 ± 0.001
		Full External Error ± 0.62				Analytical Error ± 0.01

Normal Isochron
 Cannot Calculate

Inverse Isochron
 Cannot Calculate



Slanting strongly downwards, high MSWD

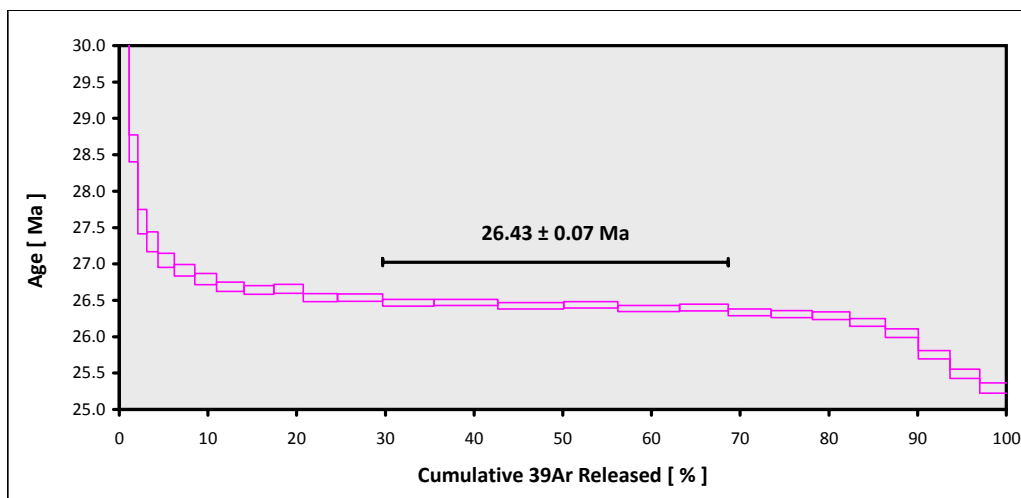


EXP#13D04878 > MV1203-D38-02B > Groundmass > MV1203 (13-INT-04)
WALVIS RIDGE > HECTOR GUYOT
13-OSU-05 > Incremental Heating > Susan Schnur

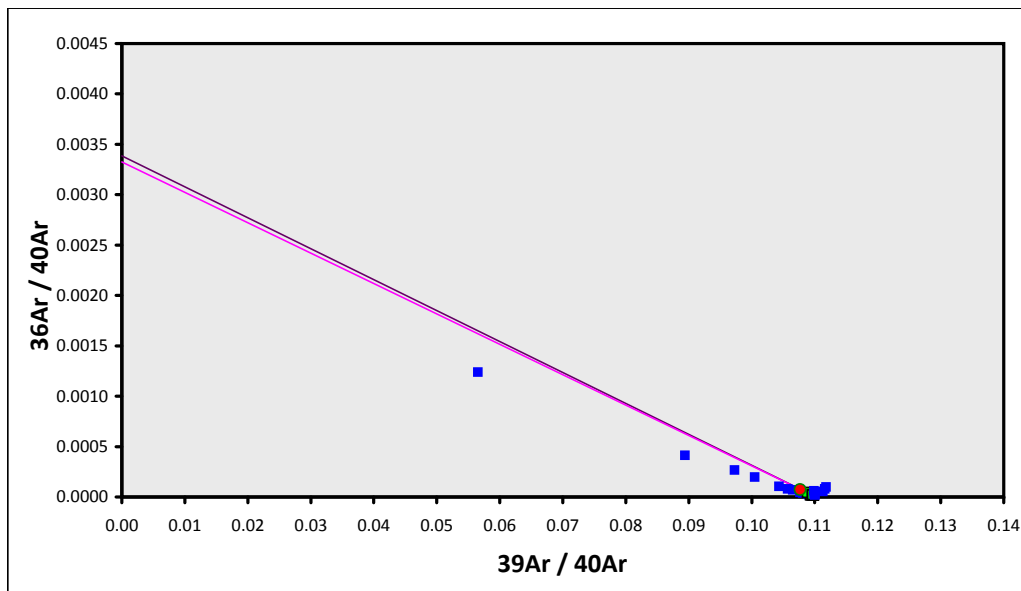
**Information on Analysis
 and Constants Used in Calculations**

Project = **MV1203 (13-INT-04)**
 Sample = **MV1203-D38-02B**
 Material = **Groundmass**
 Location = **Hector Guyot**
 Region = **Walvis Ridge**
 Analyst = **Susan Schnur**
 Irradiation = **13-OSU-05**
 Position = X: | Y: | Z/H: **51.02 mm**
 FCT-NM Age = **28.201 ± 0.023 Ma**
 FCT-NM Reference = **Kuiper et al (2008)**
 FCT-NM 40Ar/39Ar Ratio = **9.68470 ± 0.01152**
 FCT-NM J-value = **0.00162291 ± 0.00000193**
 Air Shot 40Ar/36Ar = **302.8040 ± 0.2816**
 Air Shot MDF = **0.99396190 ± 0.00062193 (LIN)**
 Experiment Type = **Incremental Heating**
 Extraction Method = **Bulk Laser Heating**
 Heating = **77 sec**
 Isolation = **5.52 min**
 Instrument = **ARGUS-VI-D**
 Preferred Age = **Plateau Age**
 Age Classification = **Eruption Age**
 IGSN = **IESRS0022**
 Rock Class = **Igneous>Volcanic>Mafic**
 Lithology = **Basalt**
 Lat-Lon = **37°47.2'S - 8°52.3'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	40(a)/36(a) ± 2σ	40(r)/39(k) ± 2σ	Age ± 2σ (Ma)	MSWD	39Ar(k) (%n)	K/Ca ± 2σ
Age Plateau						
Error Mean		9.07248 ± 0.00984 ± 0.11%	26.43 ± 0.07 ± 0.26%	2.59	38.97	0.303 ± 0.012
			Full External Error ± 0.60	2.26	2σ Confidence Limit	
			Analytical Error ± 0.03	1.6103	Error Magnification	
Total Fusion Age		9.08857 ± 0.00399 ± 0.04%	26.48 ± 0.06 ± 0.24%		26	0.233 ± 0.001
			Full External Error ± 0.60			
			Analytical Error ± 0.01			
Normal Isochron				3.25	38.97	
Error Chron	319.36 ± 130.39 ± 40.83%	9.06600 ± 0.03035 ± 0.33%	26.41 ± 0.11 ± 0.41%	1%	6	
			Full External Error ± 0.60	2.41	2σ Confidence Limit	
			Analytical Error ± 0.09	1.8024	Error Magnification	
Inverse Isochron				3.24	38.97	
Error Chron	300.78 ± 121.37 ± 40.35%	9.07138 ± 0.03009 ± 0.33%	26.43 ± 0.11 ± 0.41%	1%	6	
			Full External Error ± 0.60	2.41	2σ Confidence Limit	
			Analytical Error ± 0.09	1.7988	Error Magnification	
				1%	Spreading Factor	



Slanting downwards but age probably acceptable.

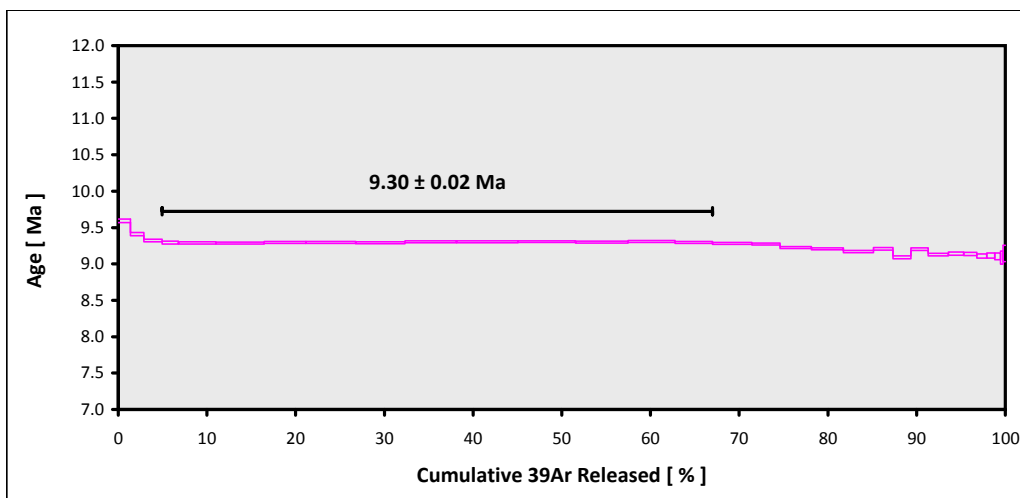


**EXP#13D05038 > MV1203-D42-17 (LIGHT) > Groundmass > MV1203 (13-INT-04)
 WALVIS RIDGE > ESK GUYOT
 13-OSU-05 > Incremental Heating > Susan Schnur**

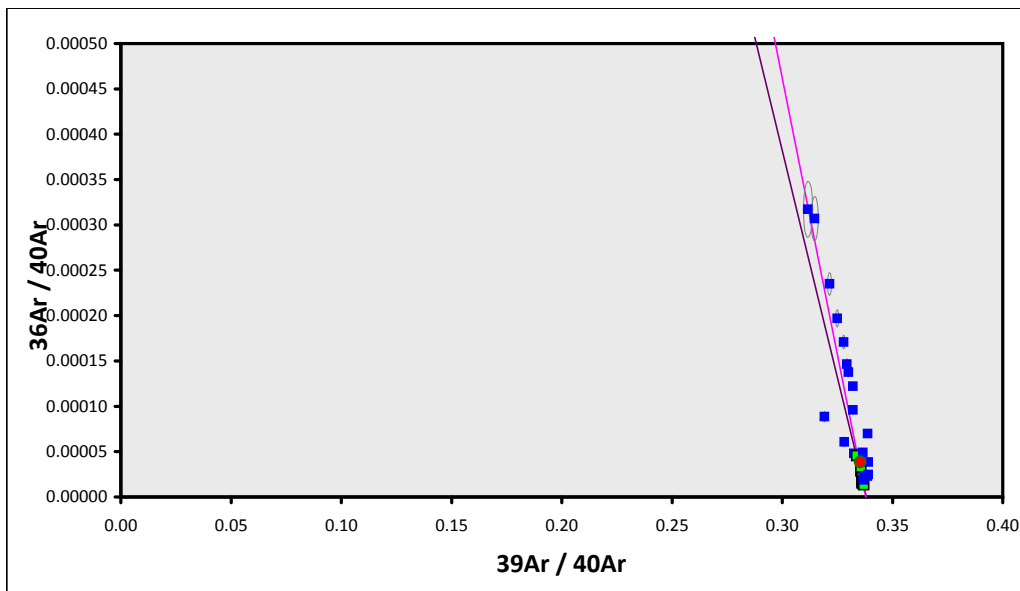
**Information on Analysis
 and Constants Used in Calculations**

Project = **MV1203 (13-INT-04)**
 Sample = **MV1203-D42-17 (LIGHT)**
 Material = **Groundmass**
 Location = **Esk Guyot**
 Region = **Walvis Ridge**
 Analyst = **Susan Schnur**
 Irradiation = **13-OSU-05**
 Position = X: | Y: | Z/H: **21.95 mm**
 FCT-NM Age = **28.201 ± 0.023 Ma**
 FCT-NM Reference = **Kuiper et al (2008)**
 FCT-NM 40Ar/39Ar Ratio = **9.01513 ± 0.01154**
 FCT-NM J-value = **0.00174345 ± 0.00000223**
 Air Shot 40Ar/36Ar = **302.8040 ± 0.2786**
 Air Shot MDF = **0.99396190 ± 0.00062105 (LIN)**
 Experiment Type = **Incremental Heating**
 Extraction Method = **Bulk Laser Heating**
 Heating = **77 sec**
 Isolation = **5.52 min**
 Instrument = **ARGUS-VI-D**
 Preferred Age = **Plateau Age**
 Age Classification = **Eruption Age**
 IGSN = **IESRS0023**
 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	40(a)/36(a) ± 2σ	40(r)/39(k) ± 2σ	Age ± 2σ (Ma)	MSWD	39Ar(k) (%n)	K/Ca ± 2σ
Age Plateau		2.95676 ± 0.00132 ± 0.04%	9.30 ± 0.02 ± 0.26%	1.16	62.05	5.75 ± 0.11
			Full External Error ± 0.21 Analytical Error ± 0.00	1.85	2σ Confidence Limit	
				1.0748	Error Magnification	
Total Fusion Age		2.94784 ± 0.00094 ± 0.03%	9.27 ± 0.02 ± 0.26%		31	5.01 ± 0.08
			Full External Error ± 0.21 Analytical Error ± 0.00			
Normal Isochron	224.80 ± 58.81 ± 26.16%	2.96094 ± 0.00365 ± 0.12%	9.31 ± 0.03 ± 0.28%	1.00	62.05	
			Full External Error ± 0.21 Analytical Error ± 0.01	44%	12	
				1.89	2σ Confidence Limit	
				1.0013	Error Magnification	
Inverse Isochron	242.76 ± 55.49 ± 22.86%	2.95983 ± 0.00364 ± 0.12%	9.31 ± 0.03 ± 0.28%	0.96	62.05	
Clustered Points			Full External Error ± 0.21 Analytical Error ± 0.01	48%	12	
				1.89	2σ Confidence Limit	
				1.0000	Error Magnification	
				1%	Spreading Factor	



Light fraction is cleaner. Good plateau.

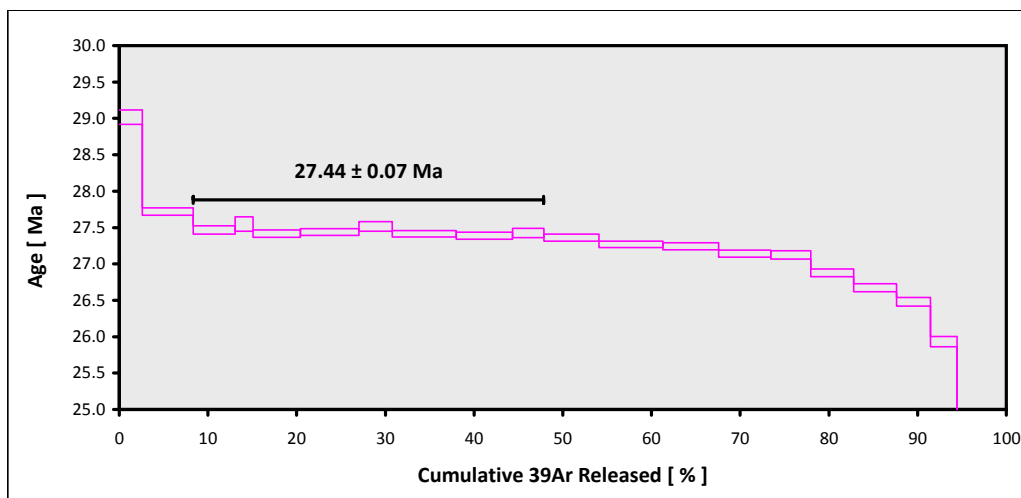


EXP#13D05091 > MV1203-D37-03 > Groundmass > MV1203 (13-INT-04)
WALVIS RIDGE > OMURA GUYOT
13-OSU-05 > Incremental Heating > Susan Schnur

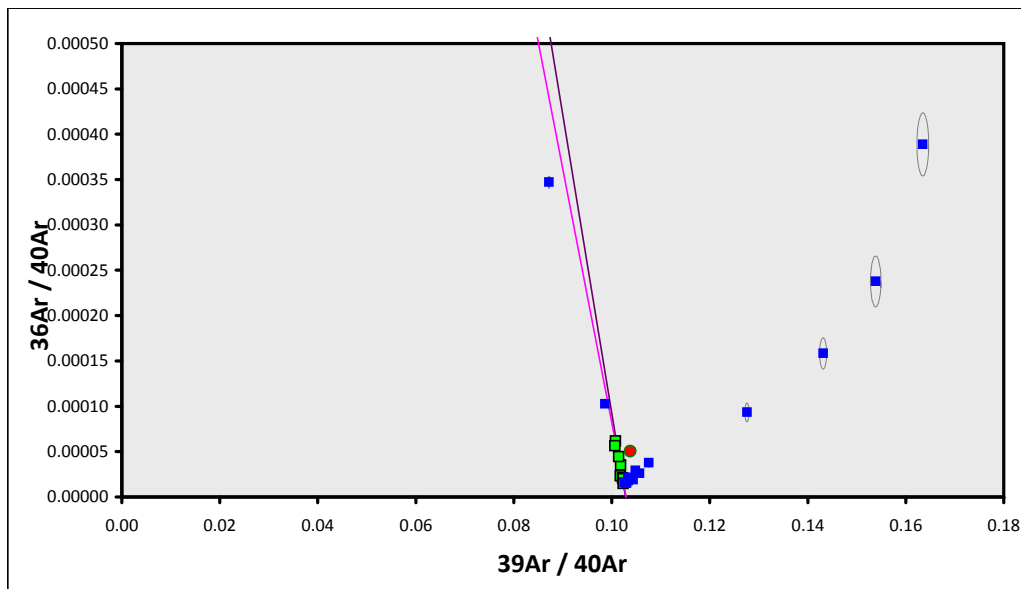
**Information on Analysis
 and Constants Used in Calculations**

Project = **MV1203 (13-INT-04)**
 Sample = **MV1203-D37-03**
 Material = **Groundmass**
 Location = **Omura Guyot**
 Region = **Walvis Ridge**
 Analyst = **Susan Schnur**
 Irradiation = **13-OSU-05**
 Position = X: | Y: | Z/H: **60.78 mm**
 FCT-NM Age = **28.201 ± 0.023 Ma**
 FCT-NM Reference = **Kuiper et al (2008)**
 FCT-NM 40Ar/39Ar Ratio = **10.00243 ± 0.01150**
 FCT-NM J-value = **0.00157136 ± 0.00000181**
 Air Shot 40Ar/36Ar = **302.7670 ± 0.2846**
 Air Shot MDF = **0.99399176 ± 0.00062291 (LIN)**
 Experiment Type = **Incremental Heating**
 Extraction Method = **Bulk Laser Heating**
 Heating = **77 sec**
 Isolation = **5.52 min**
 Instrument = **ARGUS-VI-D**
 Preferred Age = **Plateau Age**
 Age Classification = **Eruption Age**
 IGSN = **IESRS0024**
 Rock Class = **Igneous>Volcanic>Mafic**
 Lithology = **Basalt**
 Lat-Lon = **37°33.0'S - 8°27.1'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	40(a)/36(a) ± 2σ	40(r)/39(k) ± 2σ	Age ± 2σ (Ma)	MSWD	39Ar(k) (% ,n)	K/Ca ± 2σ
Age Plateau						
Error Mean		9.72907 ± 0.01113	27.44 ± 0.07	2.61	39.52	0.303 ± 0.018
			± 0.11%	1%	8	
			Full External Error ± 0.62	2.07	2σ Confidence Limit	
			Analytical Error ± 0.03	1.6146	Error Magnification	
Total Fusion Age		9.49398 ± 0.00450	26.78 ± 0.06		25	0.194 ± 0.001
		± 0.05%	± 0.23%			
			Full External Error ± 0.61			
			Analytical Error ± 0.01			
Normal Isochron	334.80 ± 65.07	9.71612 ± 0.02306	27.40 ± 0.09	1.94	39.52	
	± 19.43%	± 0.24%	± 0.33%	7%	8	
			Full External Error ± 0.62	2.15	2σ Confidence Limit	
			Analytical Error ± 0.06	1.3916	Error Magnification	
Inverse Isochron	347.45 ± 68.37	9.71236 ± 0.02455	27.39 ± 0.09	2.18	39.52	
Error Chron	± 19.68%	± 0.25%	± 0.34%	4%	8	
			Full External Error ± 0.62	2.15	2σ Confidence Limit	
			Analytical Error ± 0.07	1.4766	Error Magnification	
				2%	Spreading Factor	



Slanting downwards but age probably acceptable.

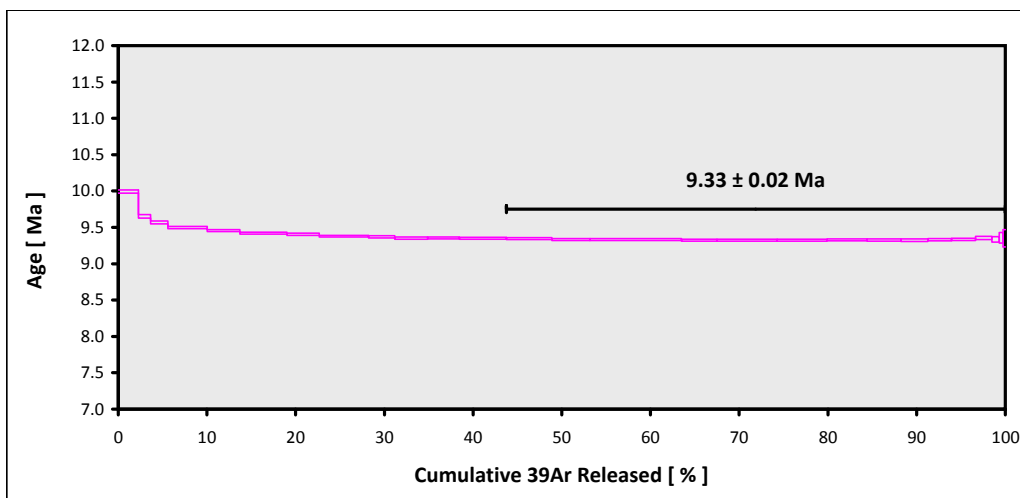


EXP#13D05173 > MV1203-D42-08 > Groundmass > MV1203 (13-INT-04)
WALVIS RIDGE > ESK GUYOT
13-OSU-05 > Incremental Heating > Susan Schnur

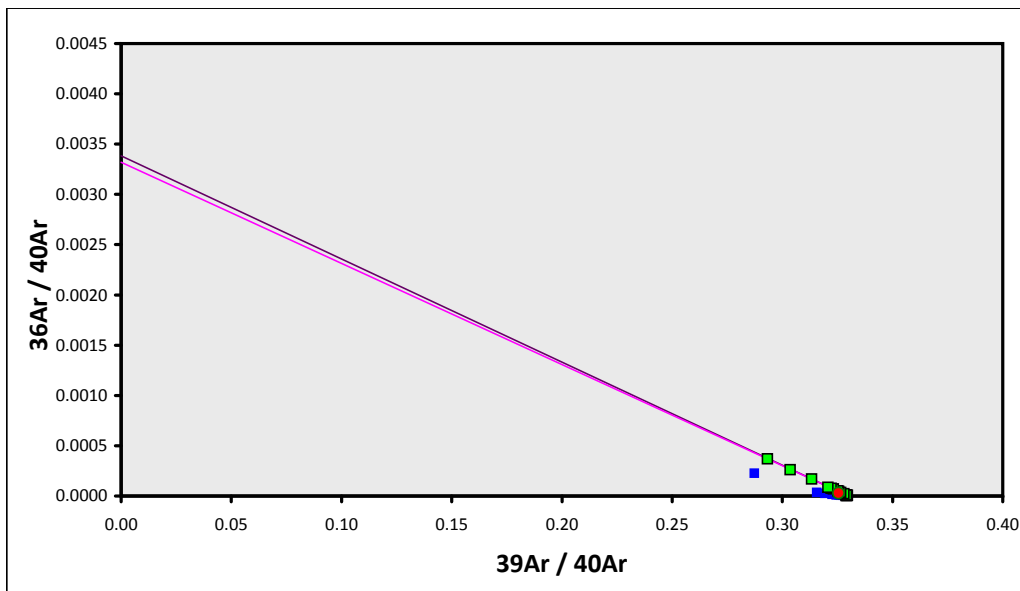
**Information on Analysis
 and Constants Used in Calculations**

Project = **MV1203 (13-INT-04)**
 Sample = **MV1203-D42-08**
 Material = **Groundmass**
 Location = **Esk Guyot**
 Region = **Walvis Ridge**
 Analyst = **Susan Schnur**
 Irradiation = **13-OSU-05**
 Position = X: | Y: | Z/H: **32.46 mm**
 FCT-NM Age = **28.201 ± 0.023 Ma**
 FCT-NM Reference = **Kuiper et al (2008)**
 FCT-NM 40Ar/39Ar Ratio = **9.20938 ± 0.01151**
 FCT-NM J-value = **0.00170667 ± 0.00000213**
 Air Shot 40Ar/36Ar = **302.7690 ± 0.2846**
 Air Shot MDF = **0.99399014 ± 0.00062290 (LIN)**
 Experiment Type = **Incremental Heating**
 Extraction Method = **Bulk Laser Heating**
 Heating = **77 sec**
 Isolation = **5.52 min**
 Instrument = **ARGUS-VI-D**
 Preferred Age = **Plateau Age**
 Age Classification = **Eruption Age**
 IGSN = **IESRS0026**
 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	40(a)/36(a) ± 2σ	40(r)/39(k) ± 2σ	Age ± 2σ (Ma)	MSWD	39Ar(k) (% _n)	K/Ca ± 2σ
Age Plateau		3.03125 ± 0.00143 ± 0.05%	9.33 ± 0.02 ± 0.25%	1.13	56.24	5.14 ± 0.23
			Full External Error ± 0.21 Analytical Error ± 0.00	32%	15	
				1.76	2σ Confidence Limit Error Magnification	
				1.0643		
Total Fusion Age		3.04759 ± 0.00101 ± 0.03%	9.38 ± 0.02 ± 0.25%		27	5.38 ± 0.09
			Full External Error ± 0.21 Analytical Error ± 0.00			
Normal Isochron	291.15 ± 15.14 ± 5.20%	3.03275 ± 0.00220 ± 0.07%	9.34 ± 0.02 ± 0.26%	1.59	56.24	
			Full External Error ± 0.21 Analytical Error ± 0.01	8%	15	
				1.78	2σ Confidence Limit Error Magnification	
				1.2617		
Inverse Isochron	301.19 ± 12.94 ± 4.30%	3.03071 ± 0.00190 ± 0.06%	9.33 ± 0.02 ± 0.26%	1.15	56.24	
			Full External Error ± 0.21 Analytical Error ± 0.01	31%	15	
				1.78	2σ Confidence Limit Error Magnification	
				1.0725	Error Magnification Spreading Factor	
				11%		



Slightly bowl-shaped but age probably acceptable.

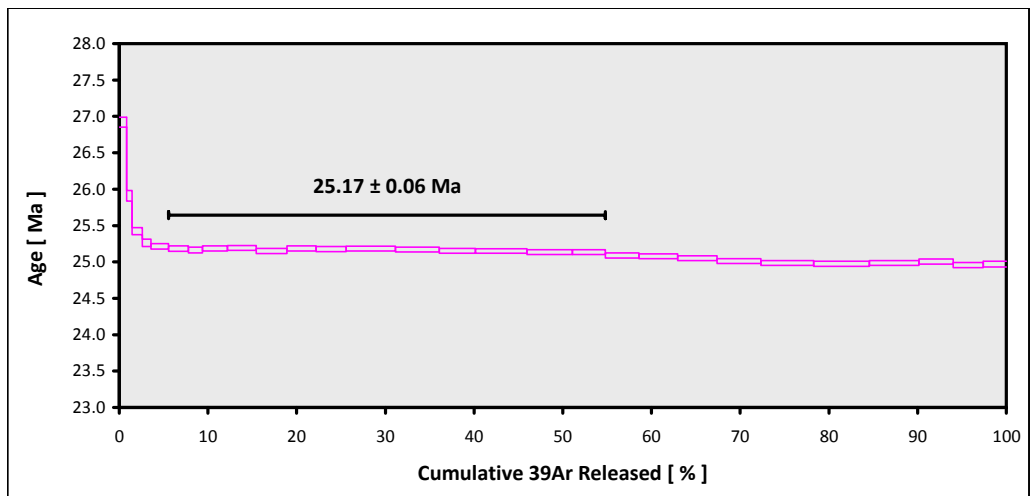


EXP#13D05257 > MV1203-D40-25 > Groundmass > MV1203 (13-INT-04)
WALVIS RIDGE > DUSKY GUYOT
13-OSU-05 > Incremental Heating > Susan Schnur

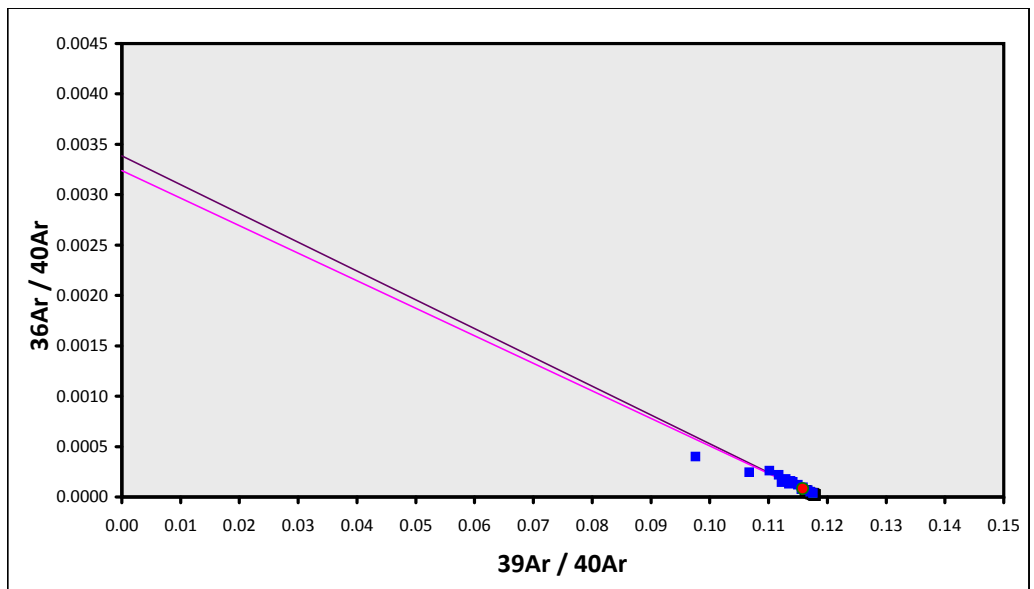
**Information on Analysis
 and Constants Used in Calculations**

Project = **MV1203 (13-INT-04)**
 Sample = **MV1203-D40-25**
 Material = **Groundmass**
 Location = **Dusky Guyot**
 Region = **Walvis Ridge**
 Analyst = **Susan Schnur**
 Irradiation = **13-OSU-05**
 Position = X: | Y: | Z/H: **43.3 mm**
 FCT-NM Age = **28.201 ± 0.023 Ma**
 FCT-NM Reference = **Kuiper et al (2008)**
 FCT-NM 40Ar/39Ar Ratio = **9.46647 ± 0.01155**
 FCT-NM J-value = **0.00166032 ± 0.00000203**
 Air Shot 40Ar/36Ar = **302.7960 ± 0.2786**
 Air Shot MDF = **0.99396836 ± 0.00062106 (LIN)**
 Experiment Type = **Incremental Heating**
 Extraction Method = **Bulk Laser Heating**
 Heating = **77 sec**
 Isolation = **5.52 min**
 Instrument = **ARGUS-VI-D**
 Preferred Age = **Plateau Age**
 Age Classification = **Eruption Age**
 IGSN = **IESRS0028**
 Rock Class = **Igneous>Volcanic>Mafic**
 Lithology = **Trachyte**
 Lat-Lon = **37°55.1'S - 6°53.2'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	40(a)/36(a) ± 2σ	40(r)/39(k) ± 2σ	Age ± 2σ (Ma)	MSWD	39Ar(k) (%n)	K/Ca ± 2σ
Age Plateau		8.44046 ± 0.00375 ± 0.04%	25.17 ± 0.06 ± 0.25%	1.37	49.23	2.08 ± 0.06
			Full External Error ± 0.57 Analytical Error ± 0.01	1.82	2σ Confidence Limit	
				1.1707	Error Magnification	
Total Fusion Age		8.42446 ± 0.00238 ± 0.03%	25.12 ± 0.06 ± 0.24%		28	1.92 ± 0.01
			Full External Error ± 0.57 Analytical Error ± 0.01			
Normal Isochron	303.22 ± 33.35 ± 11.00%	8.43876 ± 0.00919 ± 0.11%	25.16 ± 0.07 ± 0.27%	1.43	49.23	
			Full External Error ± 0.57 Analytical Error ± 0.03	15%	13	
				1.85	2σ Confidence Limit	
				1.1960	Error Magnification	
Inverse Isochron	308.73 ± 32.69 ± 10.59%	8.43716 ± 0.00914 ± 0.11%	25.16 ± 0.07 ± 0.27%	1.41	49.23	
Clustered Points			Full External Error ± 0.57 Analytical Error ± 0.03	16%	13	
				1.85	2σ Confidence Limit	
				1.1885	Error Magnification	
				1%	Spreading Factor	



Plateau slanting downwards, not great, but age probably acceptable.

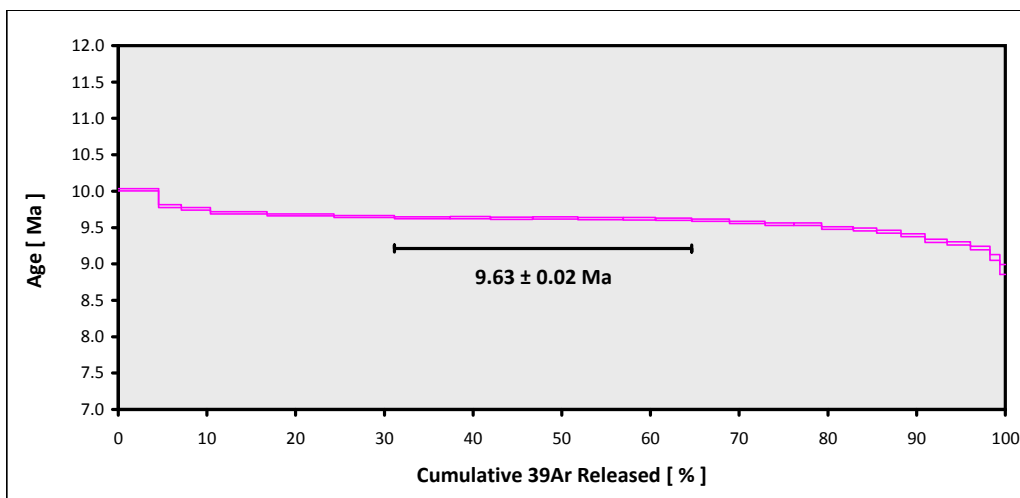


EXP#13D05296 > MV1203-D42-04 > Groundmass > MV1203 (13-INT-04)
WALVIS RIDGE > ESK GUYOT
13-OSU-05 > Incremental Heating > Susan Schnur

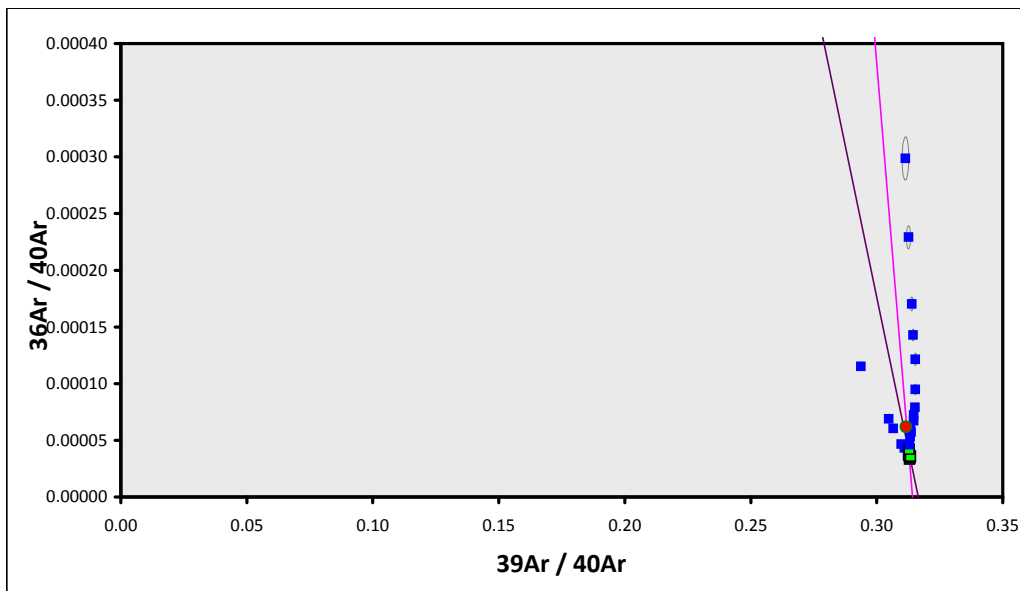
**Information on Analysis
 and Constants Used in Calculations**

Project = **MV1203 (13-INT-04)**
 Sample = **MV1203-D42-04**
 Material = **Groundmass**
 Location = **Esk Guyot**
 Region = **Walvis Ridge**
 Analyst = **Susan Schnur**
 Irradiation = **13-OSU-05**
 Position = **X: | Y: | Z/H: 36.7 mm**
 FCT-NM Age = **28.201 ± 0.023 Ma**
 FCT-NM Reference = **Kuiper et al (2008)**
 FCT-NM 40Ar/39Ar Ratio = **9.30308 ± 0.01154**
 FCT-NM J-value = **0.00168948 ± 0.00000209**
 Air Shot 40Ar/36Ar = **302.7950 ± 0.2786**
 Air Shot MDF = **0.99396916 ± 0.00062106 (LIN)**
 Experiment Type = **Incremental Heating**
 Extraction Method = **Bulk Laser Heating**
 Heating = **77 sec**
 Isolation = **5.52 min**
 Instrument = **ARGUS-VI-D**
 Preferred Age = **Plateau Age**
 Age Classification = **Eruption Age**
 IGSN = **IESRS0029**
 Rock Class = **Igneous>Volcanic>Mafic**
 Lithology = **Basaltic trachyandesite**
 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	40(a)/36(a) ± 2σ	40(r)/39(k) ± 2σ	Age ± 2σ (Ma)	MSWD	39Ar(k) (%n)	K/Ca ± 2σ
Age Plateau		3.15966 ± 0.00198 ± 0.06%	9.63 ± 0.02 ± 0.26%	1.10	33.50	0.95 ± 0.02
			Full External Error ± 0.22	36%	7	
			Analytical Error ± 0.01	2.15	2σ Confidence Limit	
				1.0471	Error Magnification	
Total Fusion Age		3.15020 ± 0.00112 ± 0.04%	9.60 ± 0.02 ± 0.25%		26	0.70 ± 0.00
			Full External Error ± 0.22			
			Analytical Error ± 0.00			
Normal Isochron	84.49 ± 207.09 #####	3.18415 ± 0.02416 ± 0.76%	9.70 ± 0.08 ± 0.80%	0.81	33.50	
			Full External Error ± 0.23	54%	7	
			Analytical Error ± 0.07	2.26	2σ Confidence Limit	
				1.0000	Error Magnification	
Inverse Isochron	94.90 ± 87.78 ± 92.50%	3.18296 ± 0.02422 ± 0.76%	9.70 ± 0.08 ± 0.80%	0.81	33.50	
Clustered Points			Full External Error ± 0.23	55%	7	
			Analytical Error ± 0.07	2.26	2σ Confidence Limit	
				1.0000	Error Magnification	
				0%	Spreading Factor	



Clear recoil pattern, not great.

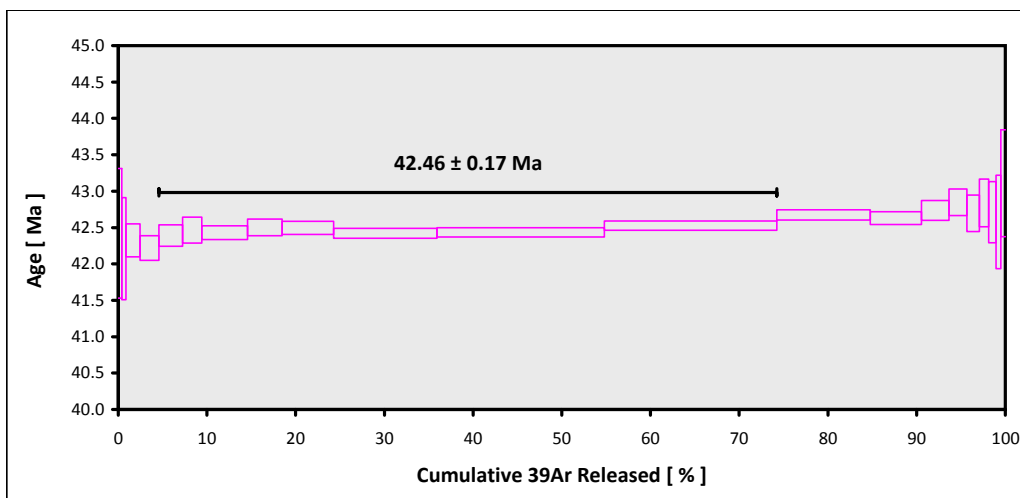


EXP#14D29402 > MV1203-D61-06A > Plagioclase > MV1203 (13-INT-04)
WALVIS RIDGE > MAYBE SEAMOUNT
14-OSU-04 (4B33-14) > Incremental Heating > Susan Schnur

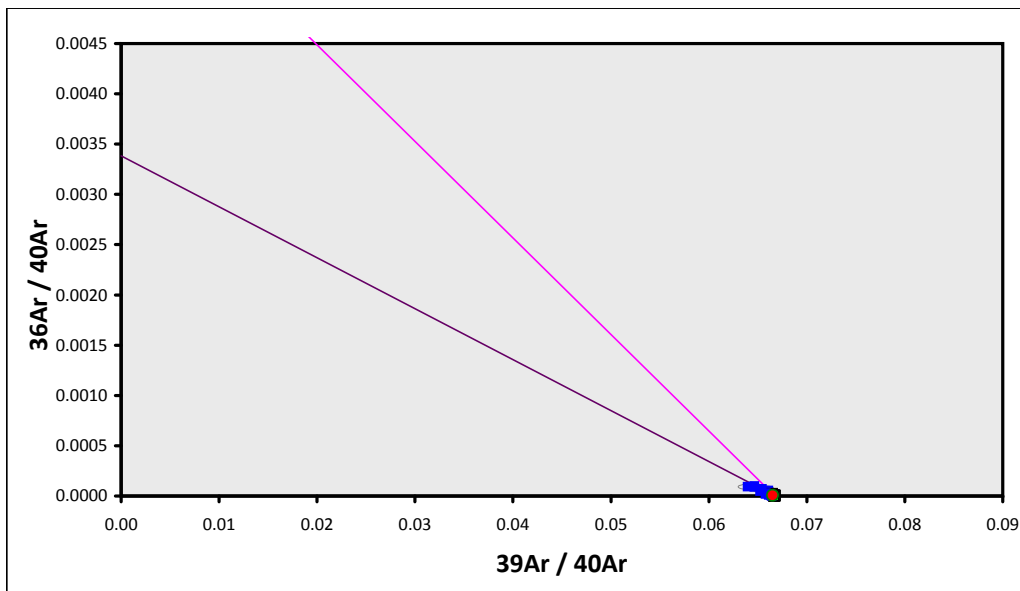
Information on Analysis and Constants Used in Calculations

Project = **MV1203 (13-INT-04)**
 Sample = **MV1203-D61-06A**
 Material = **Plagioclase**
 Location = **Maybe Seamount**
 Region = **Walvis Ridge**
 Analyst = **Susan Schnur**
 Irradiation = **14-OSU-04 (4B33-14)**
 Position = **X: 0 | Y: 0 | Z/H: 46.93 mm**
 FCT-NM Age = **28.201 ± 0.023 Ma**
 FCT-NM Reference = **Kuiper et al 2008**
 FCT-NM 40Ar/39Ar Ratio = **9.90880 ± 0.01912**
 FCT-NM J-value = **0.00158621 ± 0.00000306**
 Air Shot 40Ar/36Ar = **303.5100 ± 0.4795**
 Air Shot MDF = **0.99339367 ± 0.00069420 (LIN)**
 Experiment Type = **Incremental Heating**
 Extraction Method = **Bulk Laser Heating**
 Heating = **60 sec**
 Isolation = **6.00 min**
 Instrument = **ARGUS-VI-D**
 Preferred Age = **Plateau Age**
 Age Classification = **Eruption Age**
 IGSN = **IESRS0030**
 Rock Class = **Igneous>Volcanic>Mafic**
 Lithology = **Phonolitic-Tephrite**
 Lat-Lon = **37°12.1'S - 1°08.5'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	40(a)/36(a) ± 2σ	40(r)/39(k) ± 2σ	Age ± 2σ (Ma)	MSWD	39Ar(k) (%),n	K/Ca ± 2σ
Age Plateau		14.97884 ± 0.01196 ± 0.08%	42.46 ± 0.17 ± 0.39% Full External Error ± 0.97 Analytical Error ± 0.03	1.22 29%	69.66 8	0.101 ± 0.000 2σ Confidence Limit Error Magnification
Total Fusion Age		14.99817 ± 0.00940 ± 0.06%	42.52 ± 0.16 ± 0.39% Full External Error ± 0.97 Analytical Error ± 0.03		21	0.102 ± 0.000
Normal Isochron	88.47 ± 177.82 #####	14.99467 ± 0.01685 ± 0.11%	42.51 ± 0.17 ± 0.40% Full External Error ± 0.97 Analytical Error ± 0.05	1.14 34%	69.66 8	0.102 ± 0.000 2σ Confidence Limit Error Magnification
Inverse Isochron Clustered Points	156.06 ± 101.49 ± 65.03%	14.98540 ± 0.01272 ± 0.08%	42.48 ± 0.17 ± 0.39% Full External Error ± 0.97 Analytical Error ± 0.04	0.94 46%	69.66 8	0.102 ± 0.000 2σ Confidence Limit Error Magnification 0% Spreading Factor



A little bumpy but acceptable.

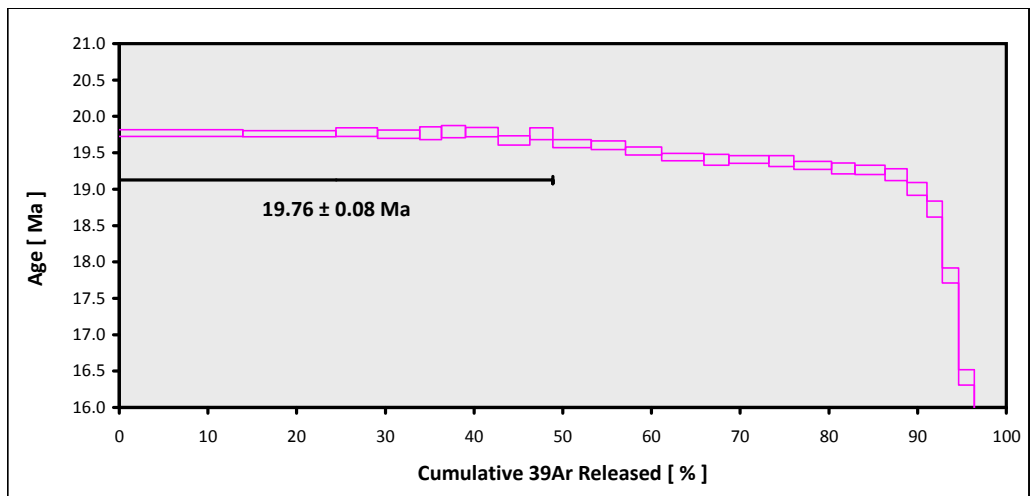


**EXP#14D30221 > MV1203-D51-10 > Groundmass > MV1203 (13-INT-04)
 WALVIS RIDGE > RSA GUYOT
 14-OSU-04 (4B12-14) > Incremental Heating > Susan Schnur**

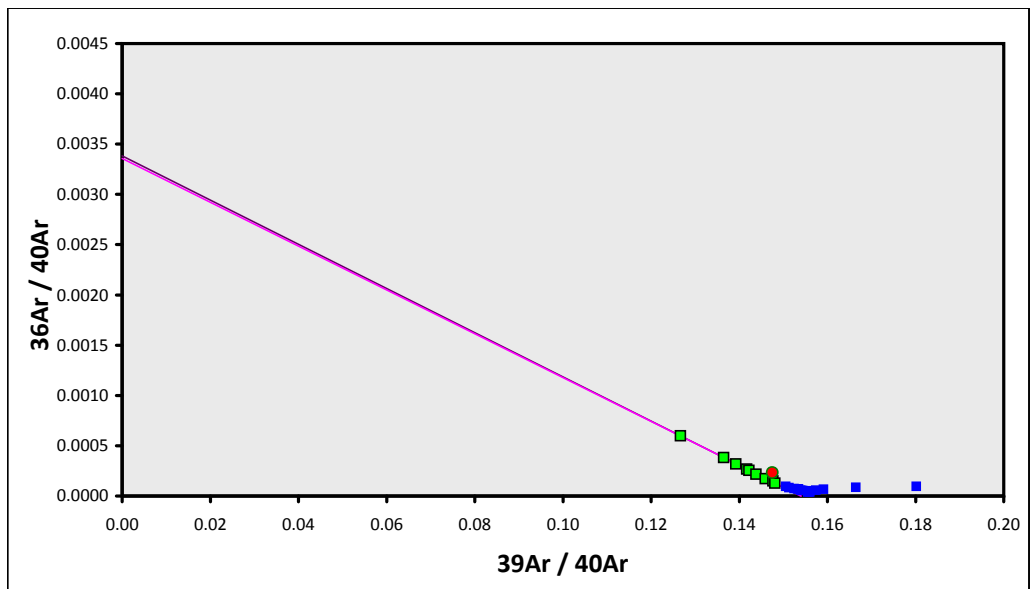
**Information on Analysis
 and Constants Used in Calculations**

Project = **MV1203 (13-INT-04)**
 Sample = **MV1203-D51-10**
 Material = **Groundmass**
 Location = **RSA Guyot**
 Region = **Walvis Ridge**
 Analyst = **Susan Schnur**
 Irradiation = **14-OSU-04 (4B12-14)**
 Position = **X: 0 | Y: 0 | Z/H: 20.83 mm**
 FCT-NM Age = **28.201 ± 0.023 Ma**
 FCT-NM Reference = **Kuiper et al (2008)**
 FCT-NM 40Ar/39Ar Ratio = **9.29596 ± 0.01915**
 FCT-NM J-value = **0.00169078 ± 0.00000348**
 Air Shot 40Ar/36Ar = **303.5560 ± 0.5221**
 Air Shot MDF = **0.99335673 ± 0.00071358 (LIN)**
 Experiment Type = **Incremental Heating**
 Extraction Method = **Bulk Laser Heating**
 Heating = **77 sec**
 Isolation = **6.00 min**
 Instrument = **ARGUS-VI-D**
 Preferred Age = **Plateau Age**
 Age Classification = **Eruption Age**
 IGSN = **IESRS0031**
 Rock Class = **Igneous>Volcanic>Mafic**
 Lithology = **Trachybasalt**
 Lat-Lon = **39°28.3'S - 5°59.5'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(ε,β*) = **0.580 ± 0.009 E-10 1/a**
 Decay 40K(β-) = **4.950 ± 0.043 E-10 1/a**
 Atmospheric 40/36(a) = **295.50**
 Atmospheric 38/36(a) = **0.1869**
 Production 39/37(ca) = **0.0006756 ± 0.0000089**
 Production 38/37(ca) = **0.0000718 ± 0.0000092**
 Production 36/37(ca) = **0.0002663 ± 0.0000004**
 Production 40/39(k) = **0.003823 ± 0.000102**
 Production 38/39(k) = **0.012031 ± 0.000019**
 Production 36/38(cl) = **262.80 ± 1.71**
 Scaling Ratio K/Ca = **0.430**
 Abundance Ratio 40K/K = **1.1700 ± 0.0100 E-04**
 Atomic Weight K = **39.0983 ± 0.0001 g**

Results	40(a)/36(a) ± 2σ	40(r)/39(k) ± 2σ	Age ± 2σ (Ma)	MSWD	39Ar(k) (%n)	K/Ca ± 2σ
Age Plateau		6.49838 ± 0.00729 ± 0.11%	19.76 ± 0.08 ± 0.42% Full External Error ± 0.45 Analytical Error ± 0.02	1.24 27%	48.88 9	0.406 ± 0.133
Total Fusion Age		6.31568 ± 0.00456 ± 0.07%	19.21 ± 0.08 ± 0.42% Full External Error ± 0.44 Analytical Error ± 0.01		30	0.302 ± 0.001
Normal Isochron	299.75 ± 6.24 ± 2.08%	6.48677 ± 0.01698 ± 0.26%	19.73 ± 0.10 ± 0.49% Full External Error ± 0.45 Analytical Error ± 0.05	1.41 20%	48.88 9	2.07 ± 0.133 2σ Confidence Limit Error Magnification
Inverse Isochron	297.89 ± 5.96 ± 2.00%	6.49265 ± 0.01619 ± 0.25%	19.74 ± 0.09 ± 0.48% Full External Error ± 0.45 Analytical Error ± 0.05	1.29 25%	48.88 9	2.07 ± 0.133 2σ Confidence Limit Error Magnification 14% Spreading Factor



Plateau not great, but plateau / isochron ages concordant.



EXP#14D30263 > MV1203-D52-05 > Groundmass > MV1203 (13-INT-04)
WALVIS RIDGE > ACUSHNET GUYOT
14-OSU-04 (4B14-14) > Incremental Heating > Susan Schnur

**Information on Analysis
 and Constants Used in Calculations**

Project = MV1203 (13-INT-04)
 Sample = MV1203-D52-05
 Material = Groundmass
 Location = Acushnet Guyot
 Region = Walvis Ridge
 Analyst = Susan Schnur
 Irradiation = 14-OSU-04 (4B14-14)
 Position = X: 0 | Y: 0 | Z/H: 23.11 mm
 FCT-NM Age = 28.201 ± 0.023 Ma
 FCT-NM Reference = Kuiper et al (2008)
 FCT-NM 40Ar/39Ar Ratio = 9.33439 ± 0.01914
 FCT-NM J-value = 0.00168382 ± 0.00000345
 Air Shot 40Ar/36Ar = 303.5750 ± 0.5161
 Air Shot MDF = 0.99334148 ± 0.00071069 (LIN)
 Experiment Type = Incremental Heating
 Extraction Method = Bulk Laser Heating
 Heating = 77 sec
 Isolation = 6.00 min
 Instrument = ARGUS-VI-D
 Preferred Age = Undefined
 Age Classification = Undefined
 IGSN = IESRS0032
 Rock Class = Igneous>Volcanic>Mafic
 Lithology = Trachybasalt
 Lat-Lon = 38°49.0'S - 5°44.0'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	40(a)/36(a) ± 2σ	40(r)/39(k) ± 2σ	Age ± 2σ (Ma)	MSWD	39Ar(k) (% ,n)	K/Ca ± 2σ
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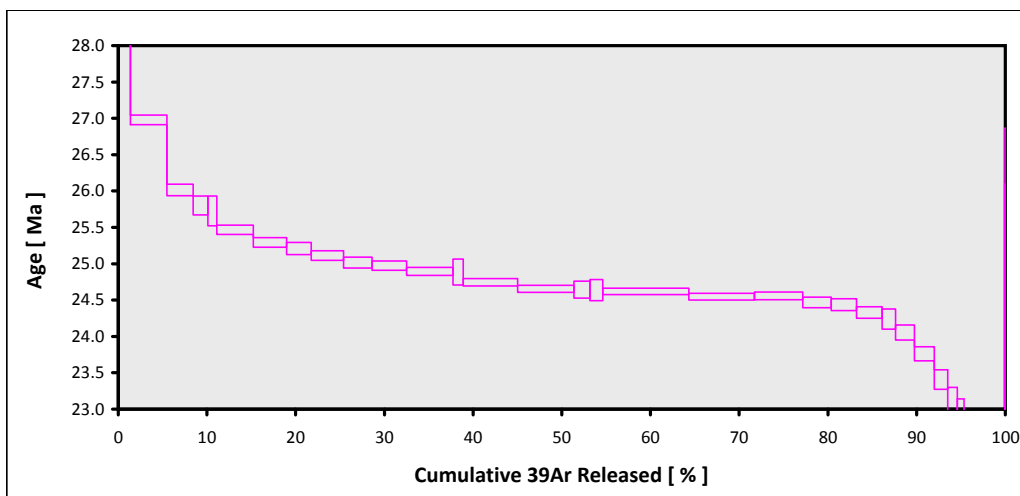
Age Plateau
 Cannot Calculate

Total Fusion Age	8.17413 ± 0.00491 ± 0.06%	24.72 ± 0.10 ± 0.41%	37	0.311 ± 0.001
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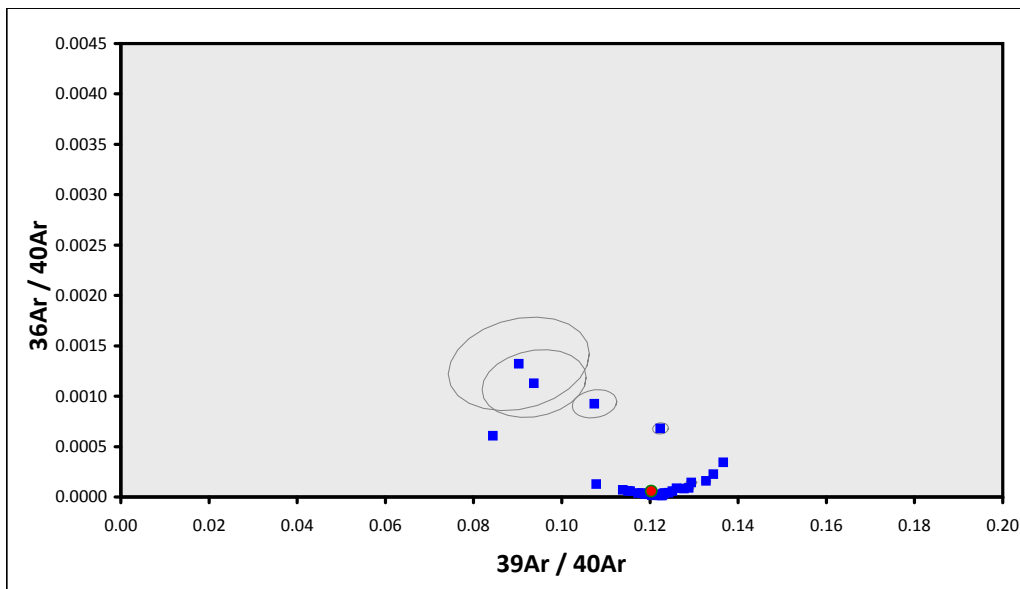
Full External Error ± 0.57
 Analytical Error ± 0.01

Normal Isochron
 Cannot Calculate

Inverse Isochron
 Cannot Calculate



Clear recoil pattern, not great.



EXP#14D30364 > MV1203-D53-01 > Groundmass > MV1203 (13-INT-04)
WALVIS RIDGE > ACUSHNET GUYOT
14-OSU-04 (4B16-14) > Incremental Heating > Susan Schnur

**Information on Analysis
 and Constants Used in Calculations**

Project = **MV1203 (13-INT-04)**
 Sample = **MV1203-D53-01**
 Material = **Groundmass**
 Location = **Acushnet Guyot**
 Region = **Walvis Ridge**
 Analyst = **Susan Schnur**
 Irradiation = **14-OSU-04 (4B16-14)**
 Position = **X: 0 | Y: 0 | Z/H: 25.43 mm**
 FCT-NM Age = **28.201 ± 0.023 Ma**
 FCT-NM Reference = **Kuiper et al (2008)**
 FCT-NM 40Ar/39Ar Ratio = **9.37646 ± 0.01913**
 FCT-NM J-value = **0.00167626 ± 0.00000342**
 Air Shot 40Ar/36Ar = **303.5690 ± 0.5130**
 Air Shot MDF = **0.99334630 ± 0.00070928 (LIN)**
 Experiment Type = **Incremental Heating**
 Extraction Method = **Bulk Laser Heating**
 Heating = **77 sec**
 Isolation = **6.00 min**
 Instrument = **ARGUS-VI-D**
 Preferred Age = **Undefined**
 Age Classification = **Undefined**
 IGSN = **IESRS0033**
 Rock Class = **Igneous>Volcanic>Mafic**
 Lithology = **Trachybasalt**
 Lat-Lon = **38°49.9'S - 5°43.8'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**

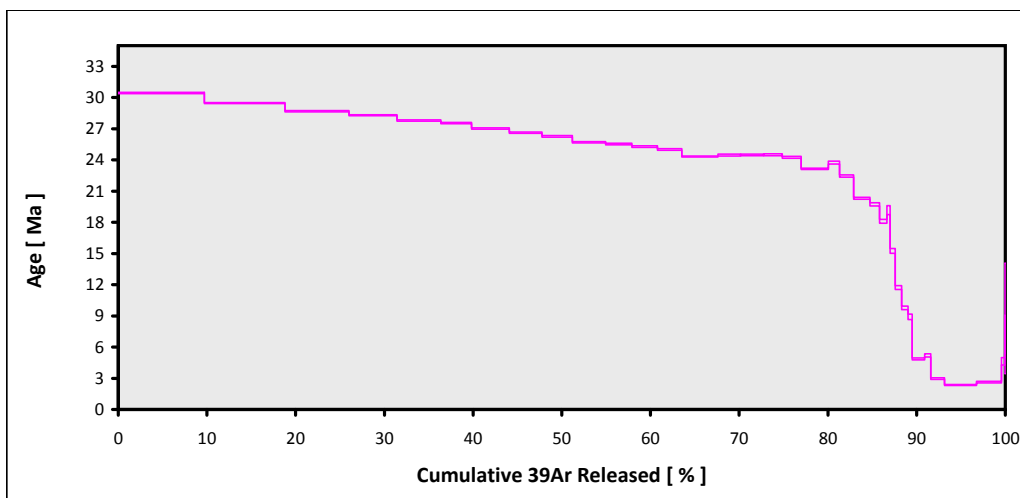
Results	40(a)/36(a) ± 2σ	40(r)/39(k) ± 2σ	Age ± 2σ (Ma)	MSWD	39Ar(k) (%n)	K/Ca ± 2σ
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Age Plateau
 Cannot Calculate

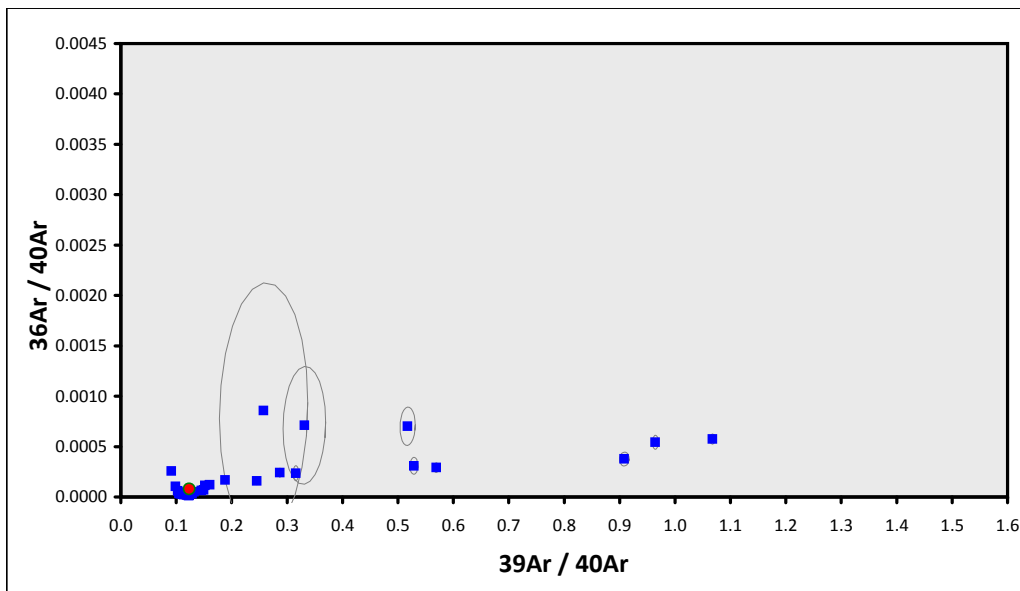
Total Fusion Age	7.91021 ± 0.00455 ± 0.06%	23.82 ± 0.10 ± 0.41%	37	0.241 ± 0.001
		Full External Error ± 0.54		
		Analytical Error ± 0.01		

Normal Isochron
 Cannot Calculate

Inverse Isochron
 Cannot Calculate



Terrible, barely any plateau

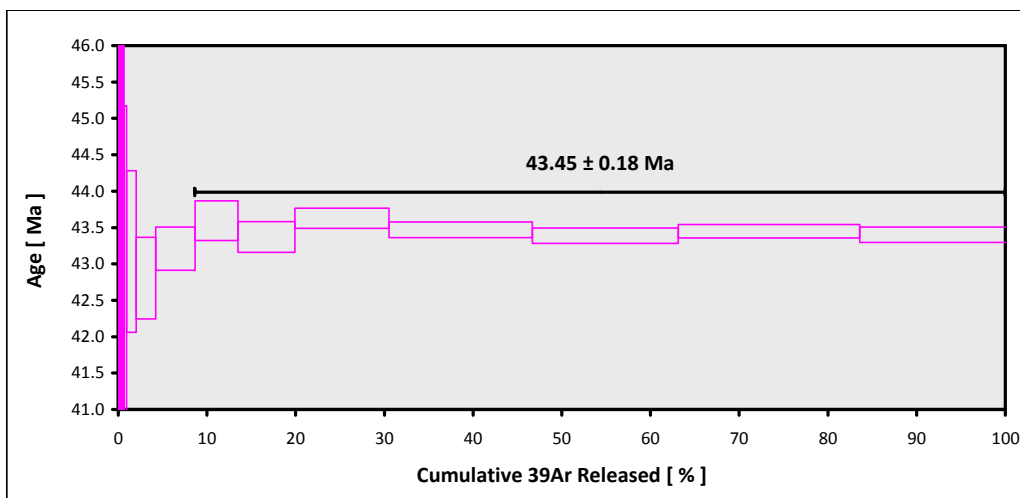


**EXP#14D30415 > MV1203-D58-16 > Hornblende > MV1203 (13-INT-04)
 WALVIS RIDGE > WANDERER SEAMOUNT
 14-OSU-04 (4B24-14) > Incremental Heating > Susan Schnur**

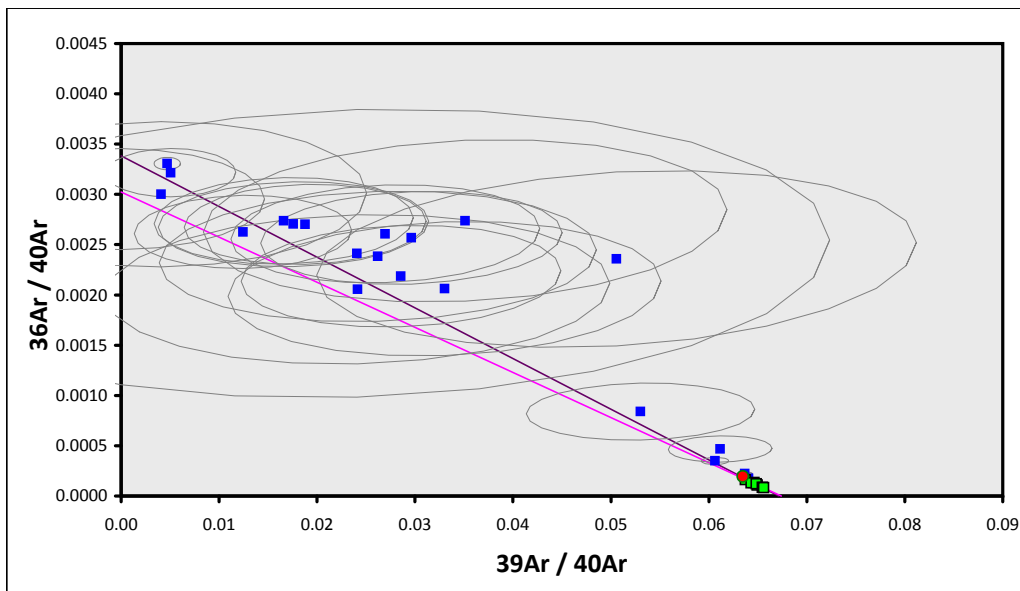
**Information on Analysis
 and Constants Used in Calculations**

Project = **MV1203 (13-INT-04)**
 Sample = **MV1203-D58-16**
 Material = **Hornblende**
 Location = **Wanderer Seamount**
 Region = **Walvis Ridge**
 Analyst = **Susan Schnur**
 Irradiation = **14-OSU-04 (4B24-14)**
 Position = **X: 0 | Y: 0 | Z/H: 36.77 mm**
 FCT-NM Age = **28.201 ± 0.023 Ma**
 FCT-NM Reference = **Kuiper et al (2008)**
 FCT-NM 40Ar/39Ar Ratio = **9.62519 ± 0.01915**
 FCT-NM J-value = **0.00163294 ± 0.00000325**
 Air Shot 40Ar/36Ar = **303.5690 ± 0.5130**
 Air Shot MDF = **0.99334630 ± 0.00070928 (LIN)**
 Experiment Type = **Incremental Heating**
 Extraction Method = **Bulk Laser Heating**
 Heating = **77 sec**
 Isolation = **6.00 min**
 Instrument = **ARGUS-VI-D**
 Preferred Age = **Plateau Age**
 Age Classification = **Eruption Age**
 IGSN = **IESRS0034**
 Rock Class = **Igneous>Volcanic>Mafic**
 Lithology = **Trachyandesite**
 Lat-Lon = **35°46.1'S - 0°58.0'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	40(a)/36(a) ± 2σ	40(r)/39(k) ± 2σ	Age ± 2σ (Ma)	MSWD	39Ar(k) (%n)	K/Ca ± 2σ
Age Plateau		14.89314 ± 0.02101 ± 0.14%	43.45 ± 0.18 ± 0.42% Full External Error ± 0.99 Analytical Error ± 0.06	1.75 11%	91.35 7	0.144 ± 0.000
Total Fusion Age		14.85652 ± 0.02503 ± 0.17%	43.35 ± 0.19 ± 0.43% Full External Error ± 0.99 Analytical Error ± 0.07		29	0.145 ± 0.001
Normal Isochron	329.35 ± 61.58 ± 18.70%	14.83788 ± 0.10166 ± 0.69%	43.29 ± 0.34 ± 0.78% Full External Error ± 1.03 Analytical Error ± 0.29	1.65 14%	91.35 7	2.26 2σ Confidence Limit Error Magnification
Inverse Isochron Clustered Points	330.65 ± 60.86 ± 18.41%	14.83640 ± 0.10170 ± 0.69%	43.29 ± 0.34 ± 0.78% Full External Error ± 1.03 Analytical Error ± 0.29	1.66 14%	91.35 7	2.26 2σ Confidence Limit Error Magnification 3% Spreading Factor



Only 7 steps in plateau (degasses at high T), but age is good.

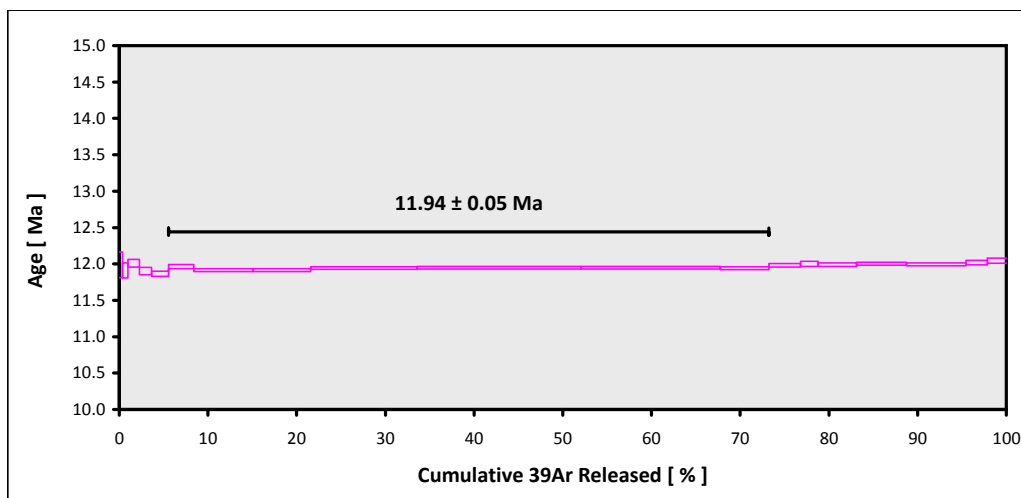


**EXP#14D30505 > MV1203-D48-04 > Alkali-Feldspar > MV1203 (13-INT-04)
 WALVIS RIDGE > JAHONT GUYOT
 14-OSU-04 (4B9-14) > Incremental Heating > Susan Schnur**

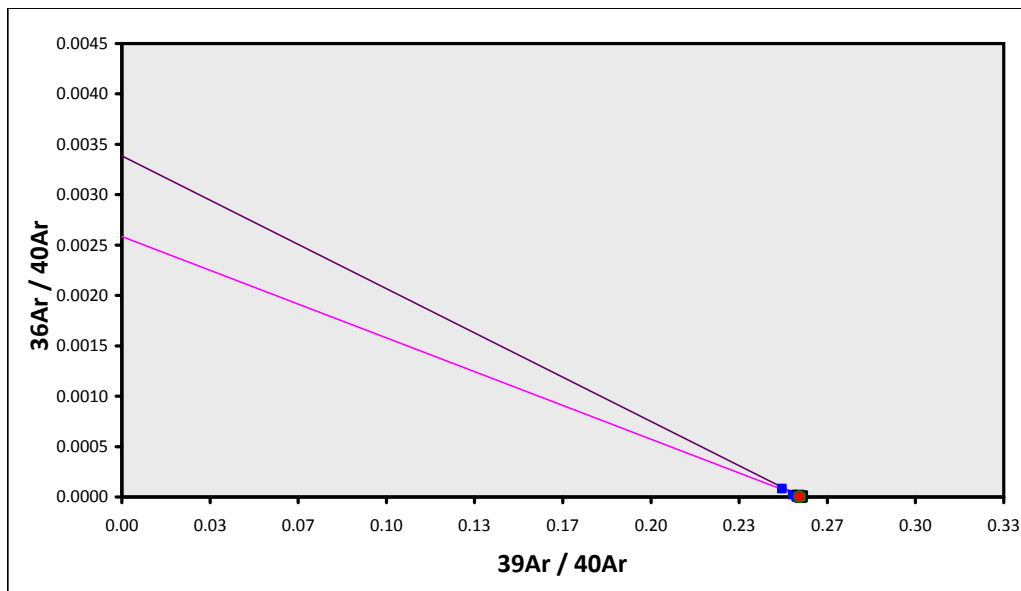
**Information on Analysis
 and Constants Used in Calculations**

Project = **MV1203 (13-INT-04)**
 Sample = **MV1203-D48-04**
 Material = **Alkali-Feldspar**
 Location = **Jahont Guyot**
 Region = **Walvis Ridge**
 Analyst = **Susan Schnur**
 Irradiation = **14-OSU-04 (4B9-14)**
 Position = **X: 0 | Y: 0 | Z/H: 17.01 mm**
 FCT-NM Age = **28.201 ± 0.023 Ma**
 FCT-NM Reference = **Kuiper et al (2008)**
 FCT-NM 40Ar/39Ar Ratio = **9.23805 ± 0.01912**
 FCT-NM J-value = **0.00170138 ± 0.00000352**
 Air Shot 40Ar/36Ar = **303.5700 ± 0.5191**
 Air Shot MDF = **0.99334550 ± 0.00071212 (LIN)**
 Experiment Type = **Incremental Heating**
 Extraction Method = **Bulk Laser Heating**
 Heating = **60 sec**
 Isolation = **6.00 min**
 Instrument = **ARGUS-VI-D**
 Preferred Age = **Plateau Age**
 Age Classification = **Eruption Age**
 IGSN = **IESRS0035**
 Rock Class = **Igneous>Volcanic>Mafic**
 Lithology = **Trachyte**
 Lat-Lon = **39°33.1'S - 7°50.0'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	40(a)/36(a) ± 2σ	40(r)/39(k) ± 2σ	Age ± 2σ (Ma)	MSWD	39Ar(k) (%n)	K/Ca ± 2σ
Age Plateau						
Error Mean		3.89339 ± 0.00391 ± 0.10%	11.94 ± 0.05 ± 0.42%	2.55	67.65	5.16 ± 0.12
			Full External Error ± 0.27	2.15	2σ Confidence Limit	
			Analytical Error ± 0.01	1.5977	Error Magnification	
Total Fusion Age		3.89904 ± 0.00200 ± 0.05%	11.96 ± 0.05 ± 0.42%		19	5.12 ± 0.06
			Full External Error ± 0.27			
			Analytical Error ± 0.01			
Normal Isochron	274.23 ± 231.07 ± 84.26%	3.89425 ± 0.00613 ± 0.16%	11.94 ± 0.05 ± 0.44%	2.97	67.65	
Error Chron			Full External Error ± 0.27	1%	7	
			Analytical Error ± 0.02	2.26	2σ Confidence Limit	
				1.7227	Error Magnification	
Inverse Isochron	386.85 ± 207.21 ± 53.56%	3.89168 ± 0.00601 ± 0.15%	11.93 ± 0.05 ± 0.44%	2.67	67.65	
Error Chron			Full External Error ± 0.27	2%	7	
			Analytical Error ± 0.02	2.26	2σ Confidence Limit	
				1.6355	Error Magnification	
				1%	Spreading Factor	



Low and high T steps a bit odd, but overall acceptable.

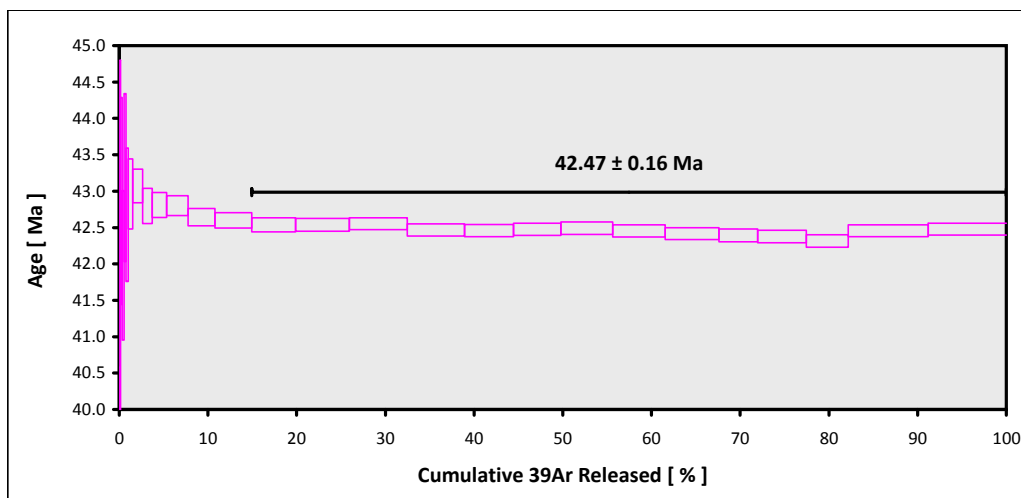


EXP#14D30532 > MV1203-D61-07C > Biotite > MV1203 (13-INT-04)
WALVIS RIDGE > MAYBE SEAMOUNT
14-OSU-04 (4B37-14) > Incremental Heating > Susan Schnur

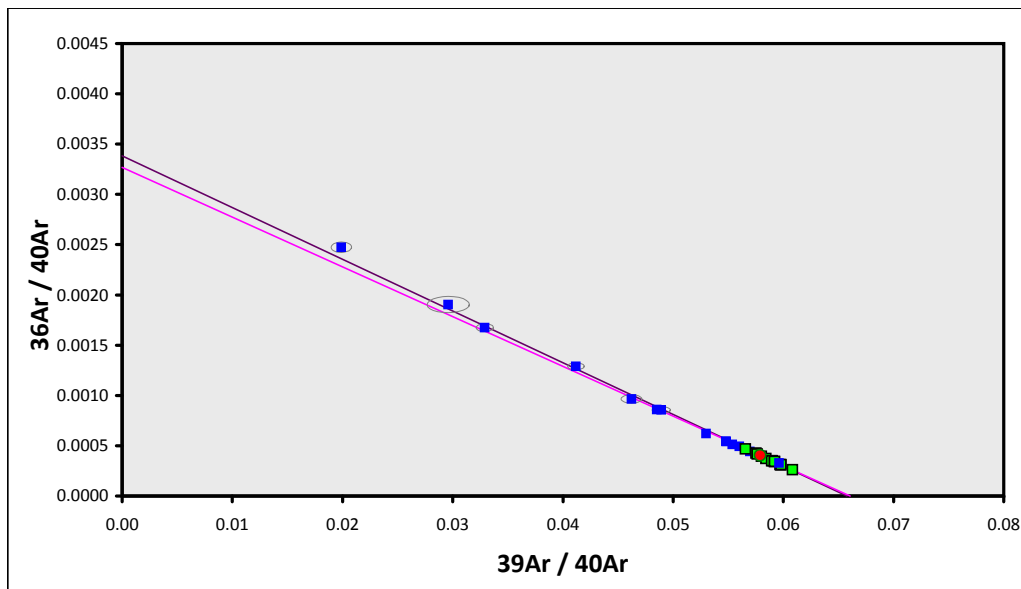
**Information on Analysis
 and Constants Used in Calculations**

Project = **MV1203 (13-INT-04)**
 Sample = **MV1203-D61-07C**
 Material = **Biotite**
 Location = **Maybe Seamount**
 Region = **Walvis Ridge**
 Analyst = **Susan Schnur**
 Irradiation = **14-OSU-04 (4B37-14)**
 Position = **X: 0 | Y: 0 | Z/H: 51.5 mm**
 FCT-NM Age = **28.201 ± 0.023 Ma**
 FCT-NM Reference = **Kuiper et al (2008)**
 FCT-NM 40Ar/39Ar Ratio = **10.05509 ± 0.01910**
 FCT-NM J-value = **0.00156313 ± 0.00000297**
 Air Shot 40Ar/36Ar = **303.5750 ± 0.5161**
 Air Shot MDF = **0.99334148 ± 0.00071069 (LIN)**
 Experiment Type = **Incremental Heating**
 Extraction Method = **Bulk Laser Heating**
 Heating = **60 sec**
 Isolation = **6.00 min**
 Instrument = **ARGUS-VI-D**
 Preferred Age = **Plateau Age**
 Age Classification = **Eruption Age**
 IGSN = **IESRS0036**
 Rock Class = **Igneous>Volcanic>Mafic**
 Lithology = **Trachyte**
 Lat-Lon = **37°12.1'S - 1°08.5'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 ± 0.00000089**
 Production 38/37(ca) = **0.0000718 ± 0.00000092**
 Production 36/37(ca) = **0.0002663 ± 0.00000004**
 Production 40/39(k) = **0.003823 ± 0.000102**
 Production 38/39(k) = **0.012031 ± 0.000019**
 Production 36/38(cl) = **262.80 ± 1.71**
 Scaling Ratio K/Ca = **0.430**
 Abundance Ratio 40K/K = **1.1700 ± 0.0100 E-04**
 Atomic Weight K = **39.0983 ± 0.0001 g**

Results	40(a)/36(a) ± 2σ	40(r)/39(k) ± 2σ	Age ± 2σ (Ma)	MSWD	39Ar(k) (%n)	K/Ca ± 2σ
Age Plateau		15.20219 ± 0.01055 ± 0.07%	42.47 ± 0.16 ± 0.38% Full External Error ± 0.97 Analytical Error ± 0.03	1.54 10% 1.82 1.2425	80.33 13 2σ Confidence Limit Error Magnification	49 ± 24
Total Fusion Age		15.21241 ± 0.00797 ± 0.05%	42.50 ± 0.16 ± 0.38% Full External Error ± 0.97 Analytical Error ± 0.02		27	125 ± 59
Normal Isochron	306.70 ± 8.86 ± 2.89%	15.13387 ± 0.05474 ± 0.36%	42.28 ± 0.22 ± 0.52% Full External Error ± 0.97 Analytical Error ± 0.15	1.11 35% 1.85 1.0525	80.33 13 2σ Confidence Limit Error Magnification	
Inverse Isochron	306.04 ± 8.85 ± 2.89%	15.13799 ± 0.05466 ± 0.36%	42.29 ± 0.22 ± 0.52% Full External Error ± 0.97 Analytical Error ± 0.15	1.10 35% 1.85 1.0510	80.33 13 2σ Confidence Limit Error Magnification 6% Spreading Factor	



Small dip at high T but plateau is fine.

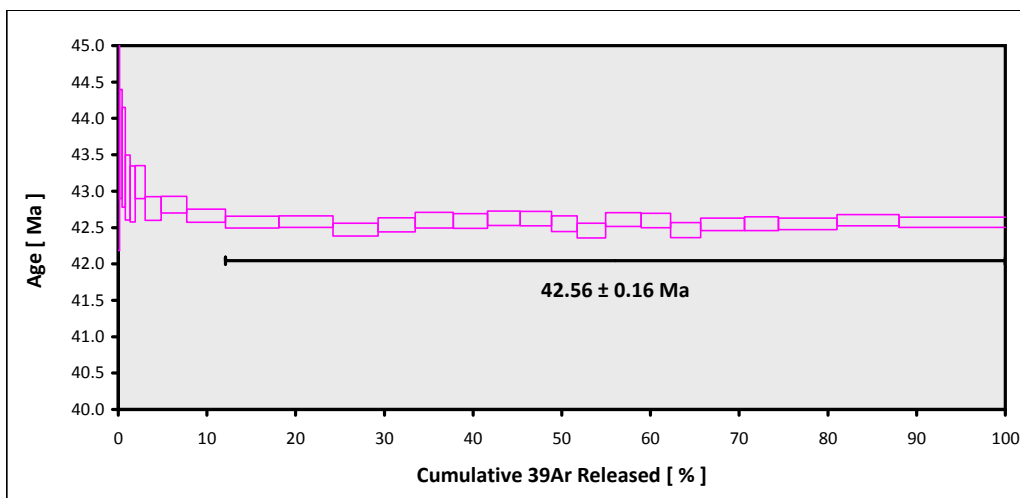


EXP#14D30570 > MV1203-D62-03 > Biotite > MV1203 (13-INT-04)
WALVIS RIDGE > MAYBE SEAMOUNT
14-OSU-04 (4B41-14) > Incremental Heating > Susan Schnur

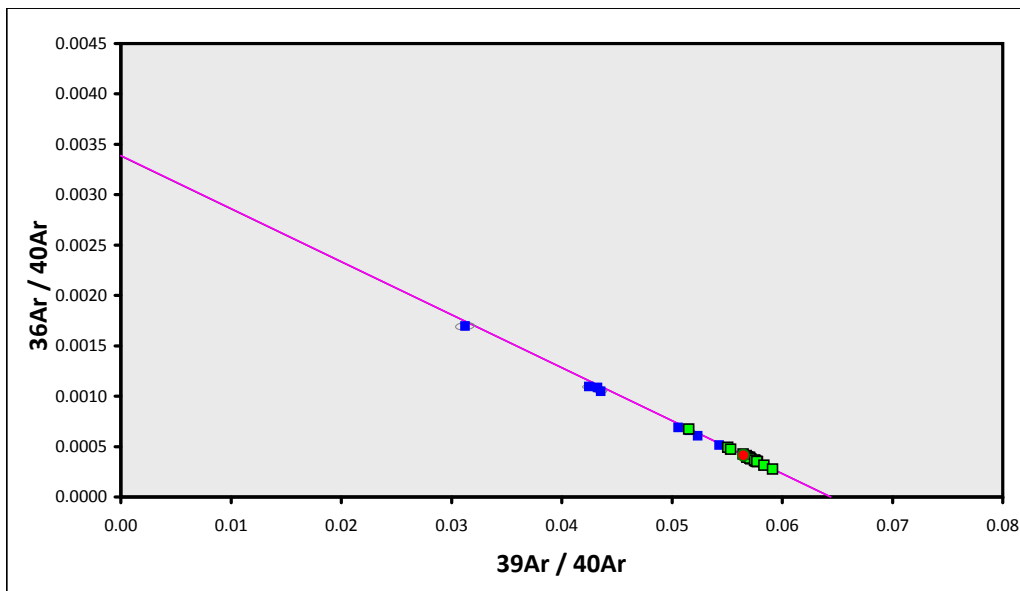
**Information on Analysis
 and Constants Used in Calculations**

Project = **MV1203 (13-INT-04)**
 Sample = **MV1203-D62-03**
 Material = **Biotite**
 Location = **Maybe Seamount**
 Region = **Walvis Ridge**
 Analyst = **Susan Schnur**
 Irradiation = **14-OSU-04 (4B41-14)**
 Position = **X: 0 | Y: 0 | Z/H: 57.03 mm**
 FCT-NM Age = **28.201 ± 0.023 Ma**
 FCT-NM Reference = **Kuiper et al (2008)**
 FCT-NM 40Ar/39Ar Ratio = **10.24765 ± 0.01916**
 FCT-NM J-value = **0.00153376 ± 0.00000287**
 Air Shot 40Ar/36Ar = **303.5780 ± 0.5161**
 Air Shot MDF = **0.99333908 ± 0.00071068 (LIN)**
 Experiment Type = **Incremental Heating**
 Extraction Method = **Bulk Laser Heating**
 Heating = **60 sec**
 Isolation = **6.00 min**
 Instrument = **ARGUS-VI-D**
 Preferred Age = **Plateau Age**
 Age Classification = **Eruption Age**
 IGSN = **IESRS0037**
 Rock Class = **Igneous>Volcanic>Mafic**
 Lithology = **Trachyandesite**
 Lat-Lon = **37°14.8'S - 1°09.6'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	40(a)/36(a) ± 2σ	40(r)/39(k) ± 2σ	Age ± 2σ (Ma)	MSWD	39Ar(k) (%n)	K/Ca ± 2σ
Age Plateau		15.52821 ± 0.00848 ± 0.05%	42.56 ± 0.16 ± 0.37% Full External Error ± 0.97 Analytical Error ± 0.02	1.17 28% 1.69 1.0795	87.92 18 2σ Confidence Limit Error Magnification	48 ± 15
Total Fusion Age		15.54139 ± 0.00764 ± 0.05%	42.60 ± 0.16 ± 0.37% Full External Error ± 0.97 Analytical Error ± 0.02		27	83 ± 34
Normal Isochron	294.82 ± 5.45 ± 1.85%	15.53274 ± 0.03796 ± 0.24%	42.58 ± 0.19 ± 0.44% Full External Error ± 0.97 Analytical Error ± 0.10	1.24 23% 1.71 1.1147	87.92 18 2σ Confidence Limit Error Magnification	
Inverse Isochron	295.19 ± 5.42 ± 1.84%	15.53033 ± 0.03781 ± 0.24%	42.57 ± 0.19 ± 0.44% Full External Error ± 0.97 Analytical Error ± 0.10	1.24 23% 1.71 1.1115	87.92 18 2σ Confidence Limit Error Magnification Spreading Factor	



Good plateau

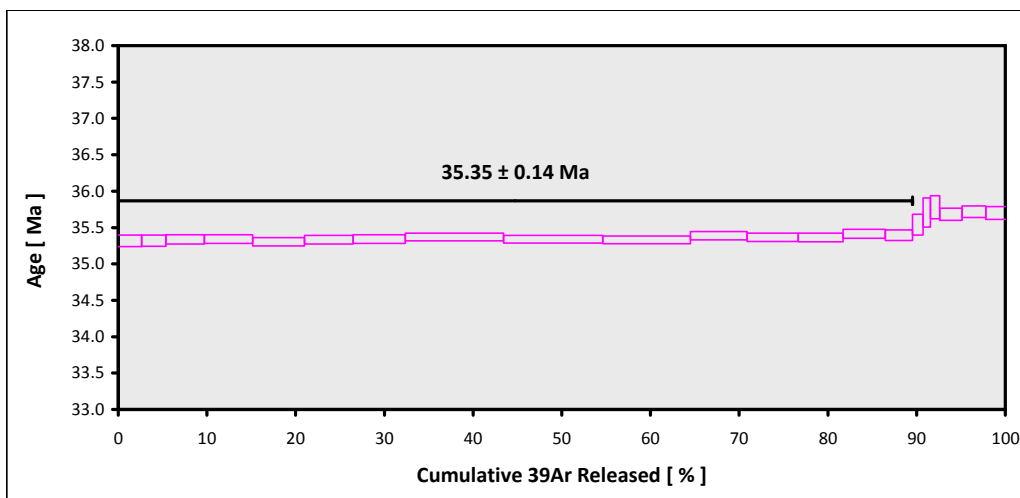


**EXP#14D30658 > MV1203-D56-22 > Alkali-Feldspar > MV1203 (13-INT-04)
 WALVIS RIDGE > HARPOONER GUYOT
 14-OSU-04 (4B20-14) > Incremental Heating > Susan Schnur**

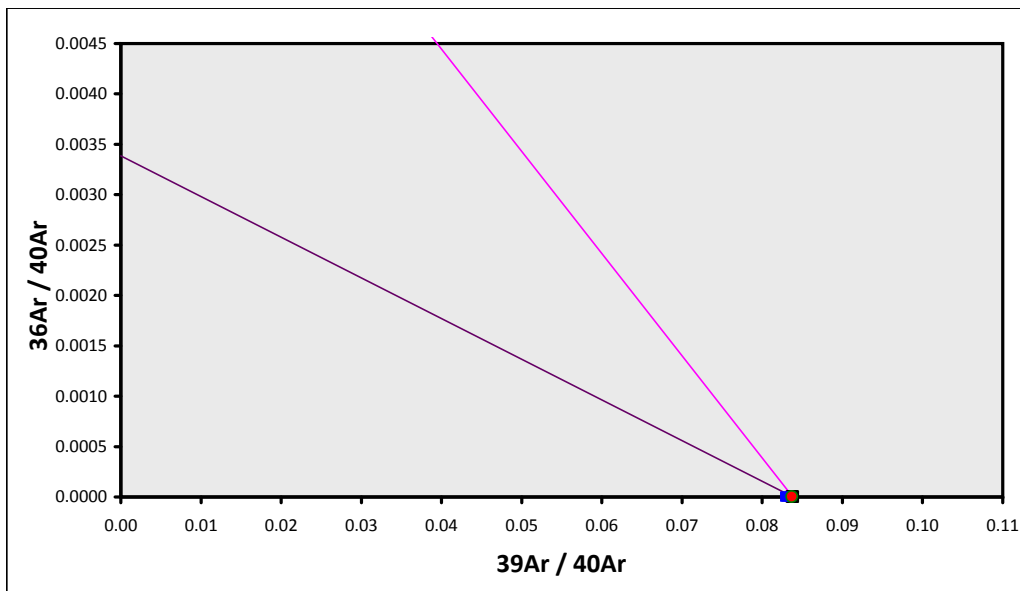
**Information on Analysis
 and Constants Used in Calculations**

Project = **MV1203 (13-INT-04)**
 Sample = **MV1203-D56-22**
 Material = **Alkali-Feldspar**
 Location = **Harpooner Guyot**
 Region = **Walvis Ridge**
 Analyst = **Susan Schnur**
 Irradiation = **14-OSU-04 (4B20-14)**
 Position = **X: 0 | Y: 0 | Z/H: 31.22 mm**
 FCT-NM Age = **28.201 ± 0.023 Ma**
 FCT-NM Reference = **Kuiper et al (2008)**
 FCT-NM 40Ar/39Ar Ratio = **9.49451 ± 0.01918**
 FCT-NM J-value = **0.00165542 ± 0.00000334**
 Air Shot 40Ar/36Ar = **303.5770 ± 0.5191**
 Air Shot MDF = **0.99333988 ± 0.00071210 (LIN)**
 Experiment Type = **Incremental Heating**
 Extraction Method = **Bulk Laser Heating**
 Heating = **60 sec**
 Isolation = **6.00 min**
 Instrument = **ARGUS-VI-D**
 Preferred Age = **Plateau Age**
 Age Classification = **Eruption Age**
 IGSN = **IESRS0038**
 Rock Class = **Igneous>Volcanic>Mafic**
 Lithology = **Trachyte**
 Lat-Lon = **37°18.2'S - 3°49.3'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	40(a)/36(a) ± 2σ	40(r)/39(k) ± 2σ	Age ± 2σ (Ma)	MSWD	39Ar(k) (%n)	K/Ca ± 2σ
Age Plateau		11.92537 ± 0.00529 ± 0.04%	35.35 ± 0.14 ± 0.40%	0.98	89.54	9.3 ± 0.2
			Full External Error ± 0.81	47%	15	
			Analytical Error ± 0.02	1.76	2σ Confidence Limit	
				1.0000	Error Magnification	
Total Fusion Age		11.93738 ± 0.00511 ± 0.04%	35.39 ± 0.14 ± 0.40%		21	9.5 ± 0.2
			Full External Error ± 0.81			
			Analytical Error ± 0.02			
Normal Isochron	98.87 ± 272.82 #####	11.93170 ± 0.01113 ± 0.09%	35.37 ± 0.15 ± 0.41%	0.79	89.54	
			Full External Error ± 0.81	67%	15	
			Analytical Error ± 0.03	1.78	2σ Confidence Limit	
				1.0000	Error Magnification	
Inverse Isochron		11.93170 ± 0.01087 ± 0.09%	35.37 ± 0.15 ± 0.41%	0.95	89.54	
Clustered Points	117.63 ± 65.45 ± 55.64%		Full External Error ± 0.81	49%	15	
			Analytical Error ± 0.03	1.78	2σ Confidence Limit	
				1.0000	Error Magnification	
				0%	Spreading Factor	



Good plateau



**EXP#14D30688 > MV1203-D57-01A > Groundmass > MV1203 (13-INT-04)
 WALVIS RIDGE > BAFFIN GUYOT
 14-OSU-04 (4B21-14) > Incremental Heating > Susan Schnur**

**Information on Analysis
 and Constants Used in Calculations**

Project = MV1203 (13-INT-04)
 Sample = MV1203-D57-01A
 Material = Groundmass
 Location = Baffin Guyot
 Region = Walvis Ridge
 Analyst = Susan Schnur
 Irradiation = 14-OSU-04 (4B21-14)
 Position = X: 0 | Y: 0 | Z/H: 32.9 mm
 FCT-NM Age = 28.201 ± 0.023 Ma
 FCT-NM Reference = Kuiper et al (2008)
 FCT-NM 40Ar/39Ar Ratio = 9.53226 ± 0.01916
 FCT-NM J-value = 0.00164886 ± 0.00000331
 Air Shot 40Ar/36Ar = 303.5780 ± 0.5191
 Air Shot MDF = 0.99333908 ± 0.00071210 (LIN)
 Experiment Type = Incremental Heating
 Extraction Method = Bulk Laser Heating
 Heating = 77 sec
 Isolation = 6.00 min
 Instrument = ARGUS-VI-D
 Preferred Age = Total Fusion
 Age Classification = Eruption Age
 IGSN = IESRS0039
 Rock Class = Igneous>Volcanic>Mafic
 Lithology = Tephrite
 Lat-Lon = 37°23.2'S - 4°14.0'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	40(a)/36(a) ± 2σ	40(r)/39(k) ± 2σ	Age ± 2σ (Ma)	MSWD	39Ar(k) (% _n)	K/Ca ± 2σ
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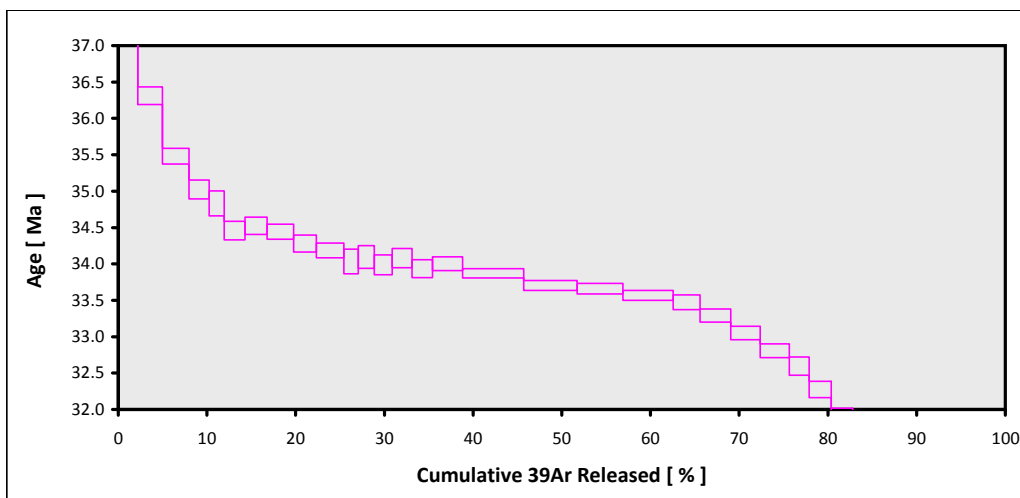
Age Plateau
 Cannot Calculate

Total Fusion Age	11.22202 ± 0.00632 ± 0.06%	33.15 ± 0.13 ± 0.40%	37	0.554 ± 0.002
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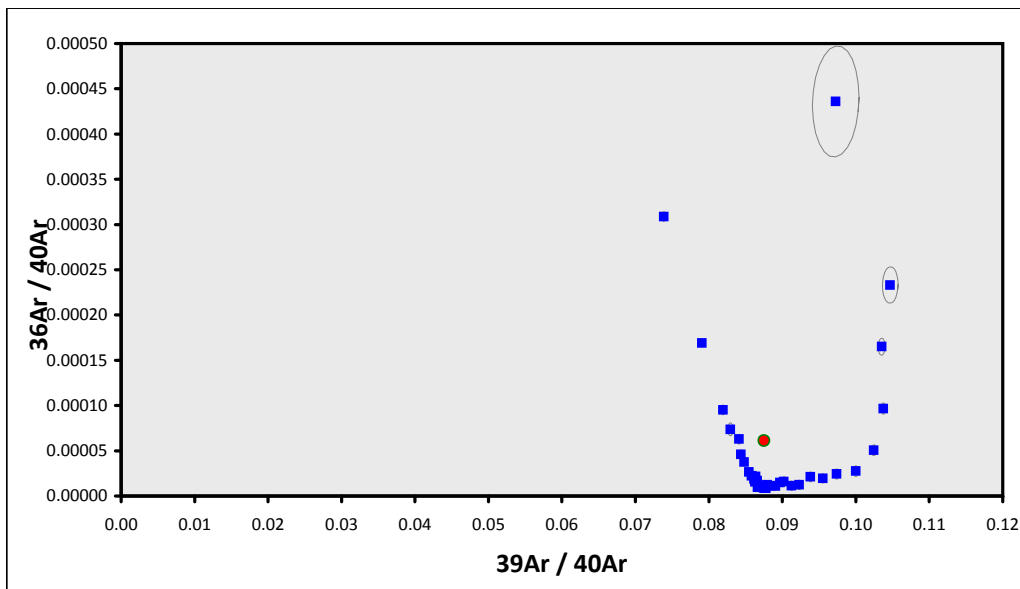
Full External Error ± 0.76
 Analytical Error ± 0.02

Normal Isochron
 Cannot Calculate

Inverse Isochron
 Cannot Calculate



Clear recoil pattern, not great. Total Fusion may approximate age due to clear recoil redistribution.

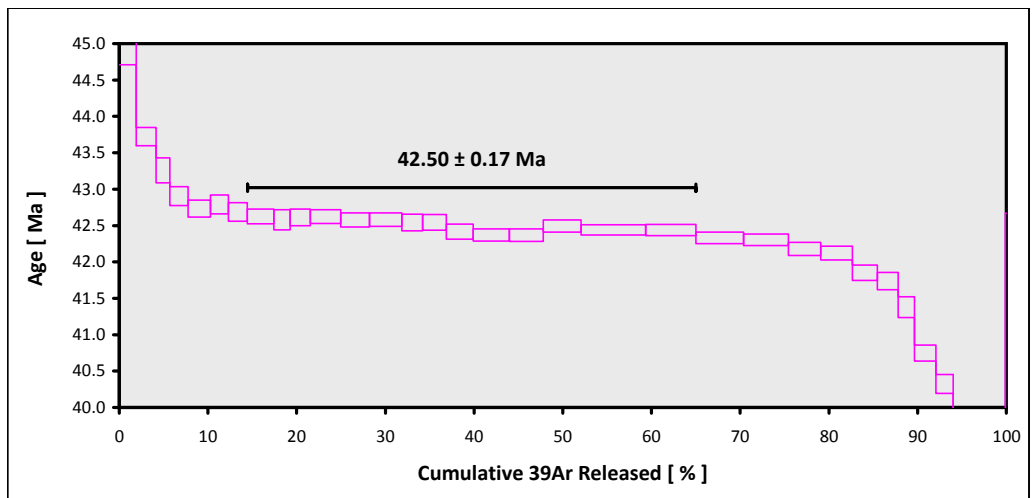


EXP#14D30789 > MV1203-D59-12 > Groundmass > MV1203 (13-INT-04)
WALVIS RIDGE > CONCORDIA SEAMOUNT
14-OSU-04 (4B25-14) > Incremental Heating > Susan Schnur

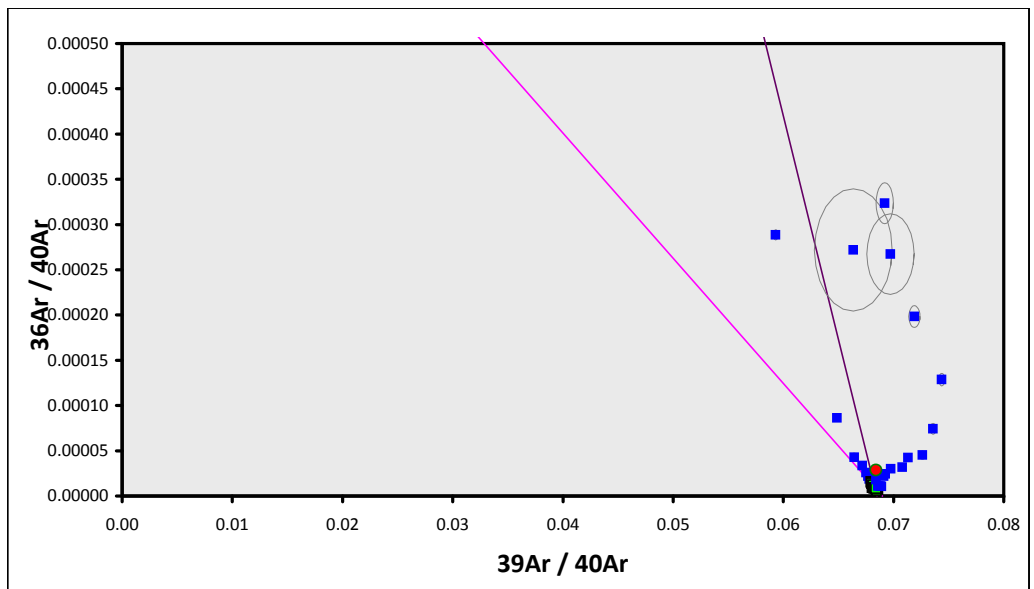
**Information on Analysis
 and Constants Used in Calculations**

Project = **MV1203 (13-INT-04)**
 Sample = **MV1203-D59-12**
 Material = **Groundmass**
 Location = **Concordia Seamount**
 Region = **Walvis Ridge**
 Analyst = **Susan Schnur**
 Irradiation = **14-OSU-04 (4B25-14)**
 Position = **X: 0 | Y: 0 | Z/H: 37.72 mm**
 FCT-NM Age = **28.201 ± 0.023 Ma**
 FCT-NM Reference = **Kuiper et al (2008)**
 FCT-NM 40Ar/39Ar Ratio = **9.64927 ± 0.01911**
 FCT-NM J-value = **0.00162887 ± 0.00000323**
 Air Shot 40Ar/36Ar = **303.5810 ± 0.5161**
 Air Shot MDF = **0.99333667 ± 0.00071067 (LIN)**
 Experiment Type = **Incremental Heating**
 Extraction Method = **Bulk Laser Heating**
 Heating = **77 sec**
 Isolation = **6.00 min**
 Instrument = **ARGUS-VI-D**
 Preferred Age = **Plateau Age**
 Age Classification = **Eruption Age**
 IGSN = **IESRS0040**
 Rock Class = **Igneous>Volcanic>Mafic**
 Lithology = **Trachybasalt**
 Lat-Lon = **35°58.0'S - 1°11.5'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	40(a)/36(a) ± 2σ	40(r)/39(k) ± 2σ	Age ± 2σ (Ma)	MSWD	39Ar(k) (%),n	K/Ca ± 2σ
Age Plateau						
Error Mean		14.59860 ± 0.01725 ± 0.12%	42.50 ± 0.17 ± 0.41%	3.96	50.56	0.548 ± 0.065
			Full External Error ± 0.97	0%	14	
			Analytical Error ± 0.05	1.78	2σ Confidence Limit	
				1.9909	Error Magnification	
Total Fusion Age		14.49089 ± 0.00644 ± 0.04%	42.19 ± 0.17 ± 0.39%		37	0.320 ± 0.001
			Full External Error ± 0.96			
			Analytical Error ± 0.02			
Normal Isochron	906.24 ± 304.23 ± 33.57%	14.50900 ± 0.04392 ± 0.30%	42.24 ± 0.21 ± 0.49%	1.13	50.56	
			Full External Error ± 0.97	33%	14	
			Analytical Error ± 0.13	1.82	2σ Confidence Limit	
				1.0622	Error Magnification	
Inverse Isochron		14.49204 ± 0.04604 ± 0.32%	42.19 ± 0.21 ± 0.50%	1.09	50.56	
Clustered Points	1047.71 ± 319.35 ± 30.48%		Full External Error ± 0.97	36%	14	
			Analytical Error ± 0.13	1.82	2σ Confidence Limit	
				1.0435	Error Magnification	
				1%	Spreading Factor	



Recoil pattern, but plateau may be acceptable.

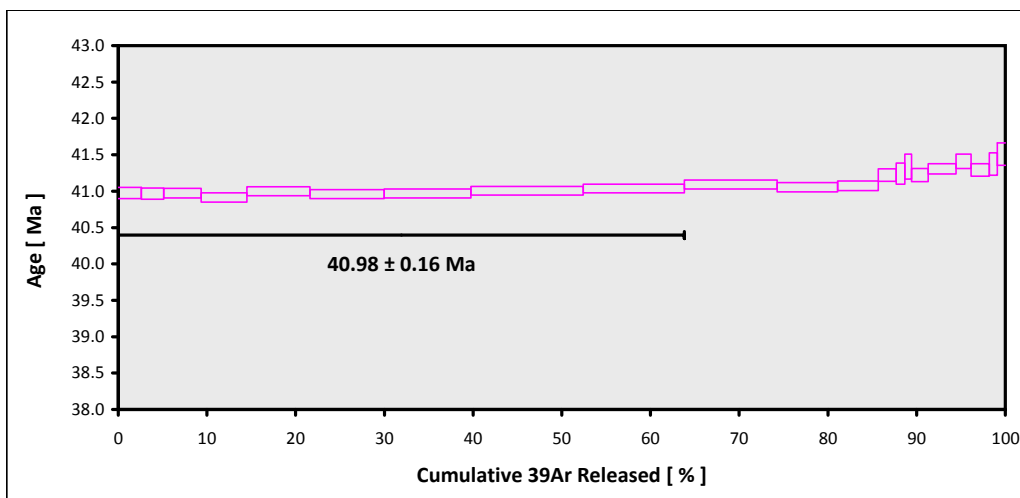


**EXP#14D30840 > MV1203-D60-04 > Alkali-Feldspar > MV1203 (13-INT-04)
 WALVIS RIDGE > CONTEST SEAMOUNT
 14-OSU-04 (4B30-14) > Incremental Heating > Susan Schnur**

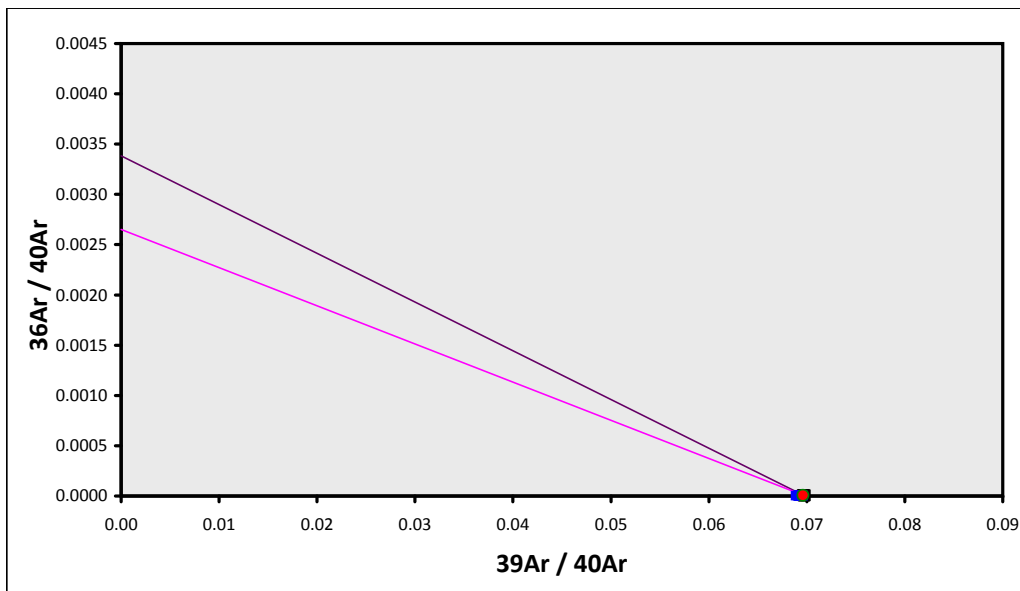
**Information on Analysis
 and Constants Used in Calculations**

Project = **MV1203 (13-INT-04)**
 Sample = **MV1203-D60-04**
 Material = **Alkali-Feldspar**
 Location = **Contest Seamount**
 Region = **Walvis Ridge**
 Analyst = **Susan Schnur**
 Irradiation = **14-OSU-04 (4B30-14)**
 Position = **X: 0 | Y: 0 | Z/H: 43.98 mm**
 FCT-NM Age = **28.201 ± 0.023 Ma**
 FCT-NM Reference = **Kuiper et al (2008)**
 FCT-NM 40Ar/39Ar Ratio = **9.82053 ± 0.01915**
 FCT-NM J-value = **0.00160046 ± 0.00000312**
 Air Shot 40Ar/36Ar = **303.5990 ± 0.5131**
 Air Shot MDF = **0.99332222 ± 0.00070921 (LIN)**
 Experiment Type = **Incremental Heating**
 Extraction Method = **Bulk Laser Heating**
 Heating = **77 sec**
 Isolation = **6.00 min**
 Instrument = **ARGUS-VI-D**
 Preferred Age = **Plateau Age**
 Age Classification = **Eruption Age**
 IGSN = **IESRS0041**
 Rock Class = **Igneous>Volcanic>Mafic**
 Lithology = **Trachyte**
 Lat-Lon = **36°17.3'S - 1°34.4'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(ε,β*) = **0.580 ± 0.009 E-10 1/a**
 Decay 40K(β-) = **4.950 ± 0.043 E-10 1/a**
 Atmospheric 40/36(a) = **295.50**
 Atmospheric 38/36(a) = **0.1869**
 Production 39/37(ca) = **0.0006756 ± 0.0000089**
 Production 38/37(ca) = **0.0000718 ± 0.0000092**
 Production 36/37(ca) = **0.0002663 ± 0.0000004**
 Production 40/39(k) = **0.003823 ± 0.000102**
 Production 38/39(k) = **0.012031 ± 0.000019**
 Production 36/38(cl) = **262.80 ± 1.71**
 Scaling Ratio K/Ca = **0.430**
 Abundance Ratio 40K/K = **1.1700 ± 0.0100 E-04**
 Atomic Weight K = **39.0983 ± 0.0001 g**

Results	40(a)/36(a) ± 2σ	40(r)/39(k) ± 2σ	Age ± 2σ (Ma)	MSWD	39Ar(k) (%),n	K/Ca ± 2σ
Age Plateau		14.32102 ± 0.00843 ± 0.06%	40.98 ± 0.16 ± 0.39% Full External Error ± 0.93 Analytical Error ± 0.02	1.23 28%	63.83 9	11.3 ± 0.3
Total Fusion Age		14.34666 ± 0.00616 ± 0.04%	41.05 ± 0.16 ± 0.39% Full External Error ± 0.94 Analytical Error ± 0.02		21	11.6 ± 0.3
Normal Isochron	331.44 ± 409.70 #####	14.31800 ± 0.03488 ± 0.24%	40.97 ± 0.19 ± 0.45% Full External Error ± 0.94 Analytical Error ± 0.10	1.40 20%	63.83 9	2.07 2σ Confidence Limit Error Magnification
Inverse Isochron Clustered Points	377.26 ± 239.95 ± 63.60%	14.31440 ± 0.03494 ± 0.24%	40.96 ± 0.19 ± 0.45% Full External Error ± 0.94 Analytical Error ± 0.10	1.37 21%	63.83 9	2.07 2σ Confidence Limit Error Magnification 0% Spreading Factor



Relatively few steps in plateau, but fine.

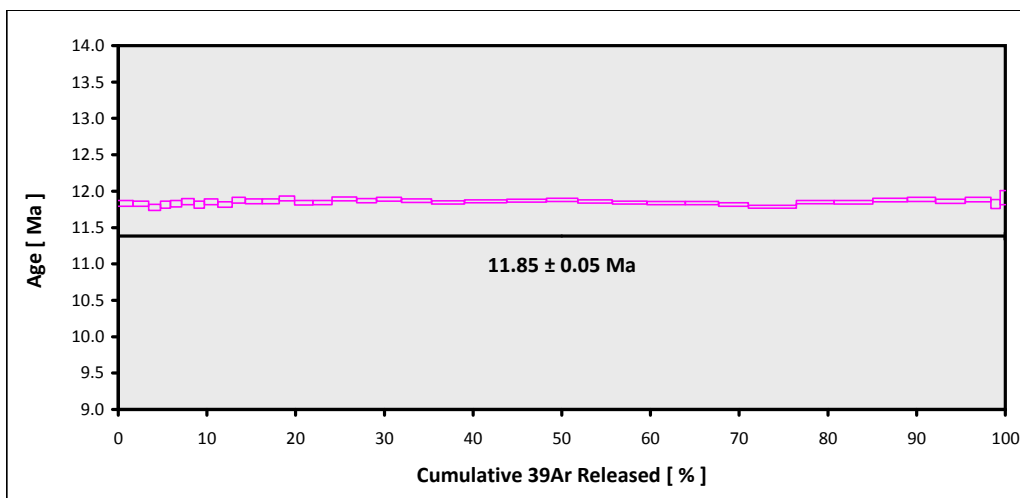


EXP#14D32588 > MV1203-D48-04 > Groundmass > MV1203 (13-INT-04)
WALVIS RIDGE > JAHONT GUYOT
14-OSU-04 (4B8-14) > Incremental Heating > Susan Schnur

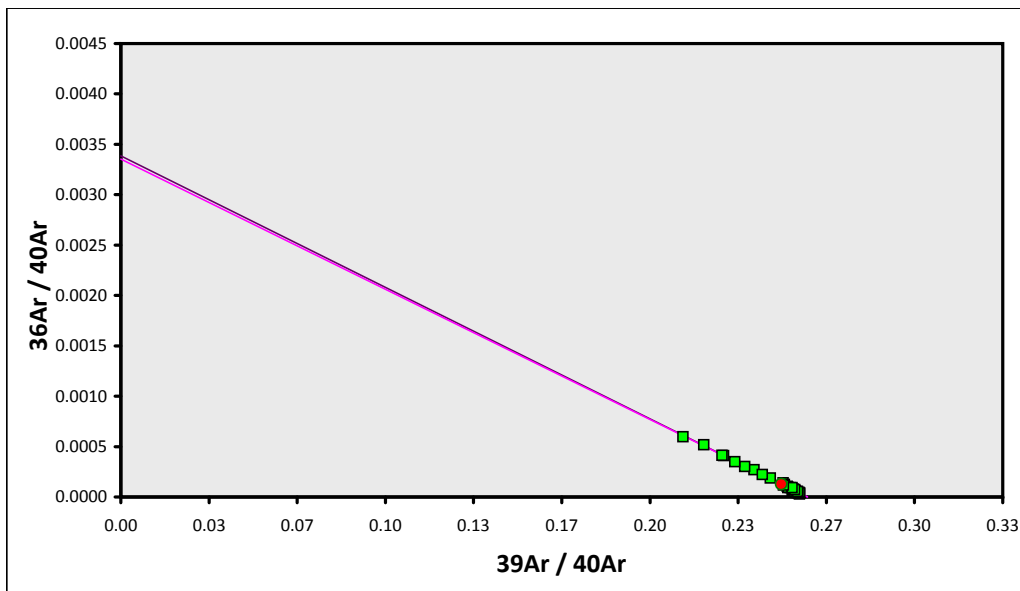
**Information on Analysis
 and Constants Used in Calculations**

Project = **MV1203 (13-INT-04)**
 Sample = **MV1203-D48-04**
 Material = **Groundmass**
 Location = **Jahont Guyot**
 Region = **Walvis Ridge**
 Analyst = **Susan Schnur**
 Irradiation = **14-OSU-04 (4B8-14)**
 Position = **X: 0 | Y: 0 | Z/H: 15.11 mm**
 FCT-NM Age = **28.201 ± 0.023 Ma**
 FCT-NM Reference = **Kuiper et al (2008)**
 FCT-NM 40Ar/39Ar Ratio = **9.21228 ± 0.01916**
 FCT-NM J-value = **0.00170613 ± 0.00000355**
 Air Shot 40Ar/36Ar = **303.6970 ± 0.4890**
 Air Shot MDF = **0.99324360 ± 0.00069785 (LIN)**
 Experiment Type = **Incremental Heating**
 Extraction Method = **Bulk Laser Heating**
 Heating = **77 sec**
 Isolation = **6.00 min**
 Instrument = **ARGUS-VI-D**
 Preferred Age = **Plateau Age**
 Age Classification = **Eruption Age**
 IGSN = **IESRS0042**
 Rock Class = **Igneous>Volcanic>Mafic**
 Lithology = **Trachyte**
 Lat-Lon = **39°33.1'S - 7°50.0'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	40(a)/36(a) ± 2σ	40(r)/39(k) ± 2σ	Age ± 2σ (Ma)	MSWD	39Ar(k) (%n)	K/Ca ± 2σ
Age Plateau						
Error Mean		3.85412 ± 0.00297 ± 0.08%	11.85 ± 0.05 ± 0.42%	3.92	100.00	5.9 ± 0.2
			Full External Error ± 0.27	0%	37	
			Analytical Error ± 0.01	1.47	2σ Confidence Limit	
				1.9801	Error Magnification	
Total Fusion Age		3.85407 ± 0.00152 ± 0.04%	11.85 ± 0.05 ± 0.42%		37	6.3 ± 0.1
			Full External Error ± 0.27			
			Analytical Error ± 0.00			
Normal Isochron				6.05	100.00	
Error Chron	289.48 ± 7.64 ± 2.64%	3.86042 ± 0.00489 ± 0.13%	11.87 ± 0.05 ± 0.43%	0%	37	
			Full External Error ± 0.27	1.48	2σ Confidence Limit	
			Analytical Error ± 0.01	2.4592	Error Magnification	
Inverse Isochron				3.94	100.00	
Error Chron	298.24 ± 6.22 ± 2.09%	3.85294 ± 0.00405 ± 0.11%	11.85 ± 0.05 ± 0.43%	0%	37	
			Full External Error ± 0.27	1.48	2σ Confidence Limit	
			Analytical Error ± 0.01	1.9841	Error Magnification	
				17%	Spreading Factor	



A little bumpy but distinct plateau. Plateau a bit short.

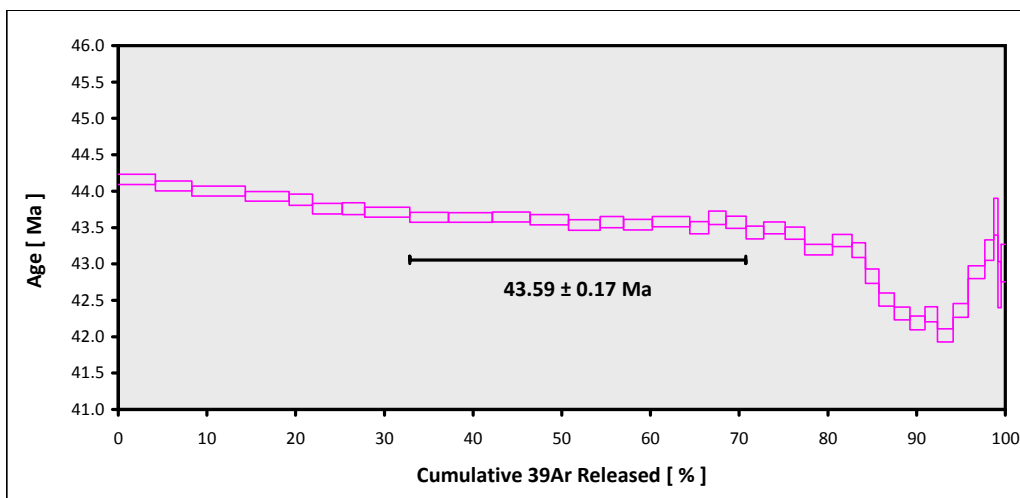


EXP#14D32639 > MV1203-D58-16 > Groundmass > MV1203 (13-INT-04)
WALVIS RIDGE > WANDERER GUYOT
14-OSU-04 (4B22-14) > Incremental Heating > Susan Schnur

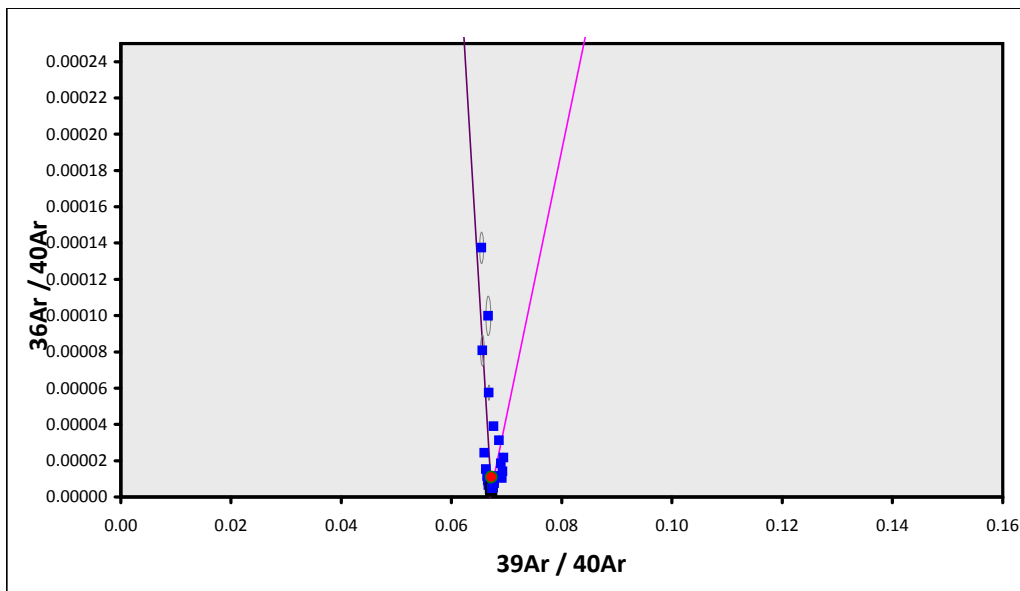
**Information on Analysis
 and Constants Used in Calculations**

Project = **MV1203 (13-INT-04)**
 Sample = **MV1203-D58-16**
 Material = **Groundmass**
 Location = **Wanderer Guyot**
 Region = **Walvis Ridge**
 Analyst = **Susan Schnur**
 Irradiation = **14-OSU-04 (4B22-14)**
 Position = **X: 0 | Y: 0 | Z/H: 34.56 mm**
 FCT-NM Age = **28.201 ± 0.023 Ma**
 FCT-NM Reference = **Kuiper et al (2008)**
 FCT-NM 40Ar/39Ar Ratio = **9.57110 ± 0.01914**
 FCT-NM J-value = **0.00164217 ± 0.00000328**
 Air Shot 40Ar/36Ar = **303.7070 ± 0.4920**
 Air Shot MDF = **0.99323558 ± 0.00069920 (LIN)**
 Experiment Type = **Incremental Heating**
 Extraction Method = **Bulk Laser Heating**
 Heating = **77 sec**
 Isolation = **6.00 min**
 Instrument = **ARGUS-VI-D**
 Preferred Age = **Plateau Age**
 Age Classification = **Eruption Age**
 IGSN = **IESRS0043**
 Rock Class = **Igneous>Volcanic>Felsic**
 Lithology = **Trachyandesite**
 Lat-Lon = **35°46.1'S - 0°58.0'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	40(a)/36(a) ± 2σ	40(r)/39(k) ± 2σ	Age ± 2σ (Ma)	MSWD	39Ar(k) (%n)	K/Ca ± 2σ
Age Plateau		14.85796 ± 0.01023 ± 0.07%	43.59 ± 0.17 ± 0.40%	1.79	37.91	1.93 ± 0.04
			Full External Error ± 0.99	6%	11	
			Analytical Error ± 0.03	1.89	2σ Confidence Limit	
				1.3377	Error Magnification	
Total Fusion Age		14.82697 ± 0.00473 ± 0.03%	43.50 ± 0.17 ± 0.40%		37	1.77 ± 0.01
			Full External Error ± 0.99			
			Analytical Error ± 0.01			
Normal Isochron	652.20 ± 729.07 #####	14.92105 ± 0.04788 ± 0.32%	43.77 ± 0.22 ± 0.51%	0.86	37.91	
			Full External Error ± 1.01	56%	11	
			Analytical Error ± 0.14	1.94	2σ Confidence Limit	
				1.0000	Error Magnification	
Inverse Isochron	1020.99 ± 691.22	14.94371 ± 0.05338 ± 0.36%	43.84 ± 0.23 ± 0.53%	0.83	37.91	
Clustered Points	± 67.70%		Full External Error ± 1.01	59%	11	
			Analytical Error ± 0.15	1.94	2σ Confidence Limit	
				1.0000	Error Magnification	
				0%	Spreading Factor	



Recoil, high-T steps are variable.



EXP#14D32740 > MV1203-D60-02 > Groundmass > MV1203 (13-INT-04)
WALVIS RIDGE > CONTEST SEAMOUNT
14-OSU-04 (4B26-14) > Incremental Heating > Susan Schnur

**Information on Analysis
 and Constants Used in Calculations**

Project = **MV1203 (13-INT-04)**
 Sample = **MV1203-D60-02**
 Material = **Groundmass**
 Location = **Contest Seamount**
 Region = **Walvis Ridge**
 Analyst = **Susan Schnur**
 Irradiation = **14-OSU-04 (4B26-14)**
 Position = **X: 0 | Y: 0 | Z/H: 39.66 mm**
 FCT-NM Age = **28.201 ± 0.023 Ma**
 FCT-NM Reference = **Kuiper et al (2008)**
 FCT-NM 40Ar/39Ar Ratio = **9.70001 ± 0.01911**
 FCT-NM J-value = **0.00162035 ± 0.00000319**
 Air Shot 40Ar/36Ar = **303.7070 ± 0.4920**
 Air Shot MDF = **0.99323558 ± 0.00069920 (LIN)**
 Experiment Type = **Incremental Heating**
 Extraction Method = **Bulk Laser Heating**
 Heating = **77 sec**
 Isolation = **6.00 min**
 Instrument = **ARGUS-VI-D**
 Preferred Age = **Undefined**
 Age Classification = **Undefined**
 IGSN = **IESRS0044**
 Rock Class = **Igneous>Volcanic>Mafic**
 Lithology = **Trachyte**
 Lat-Lon = **36°17.3'S - 1°34.4'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**

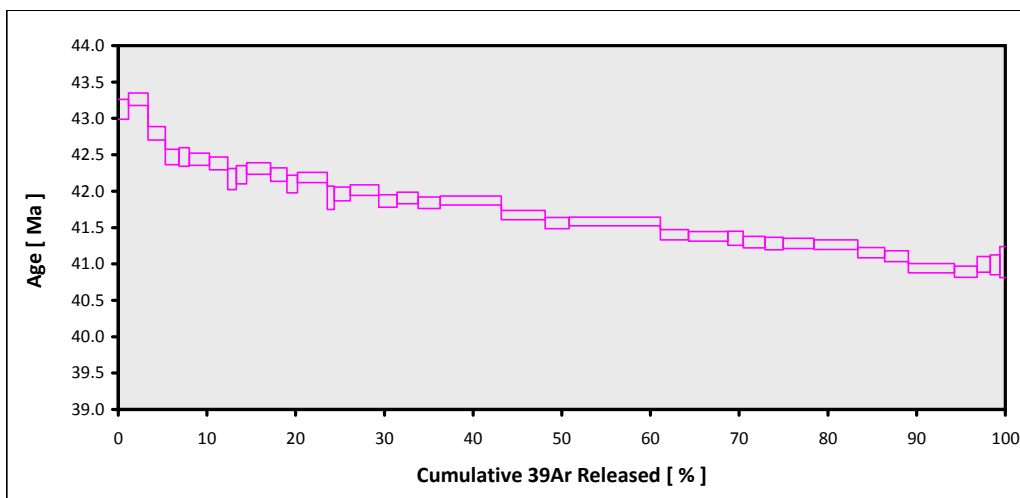
Results	40(a)/36(a) ± 2σ	40(r)/39(k) ± 2σ	Age ± 2σ (Ma)	MSWD	39Ar(k) (%n)	K/Ca ± 2σ
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Age Plateau
 Cannot Calculate

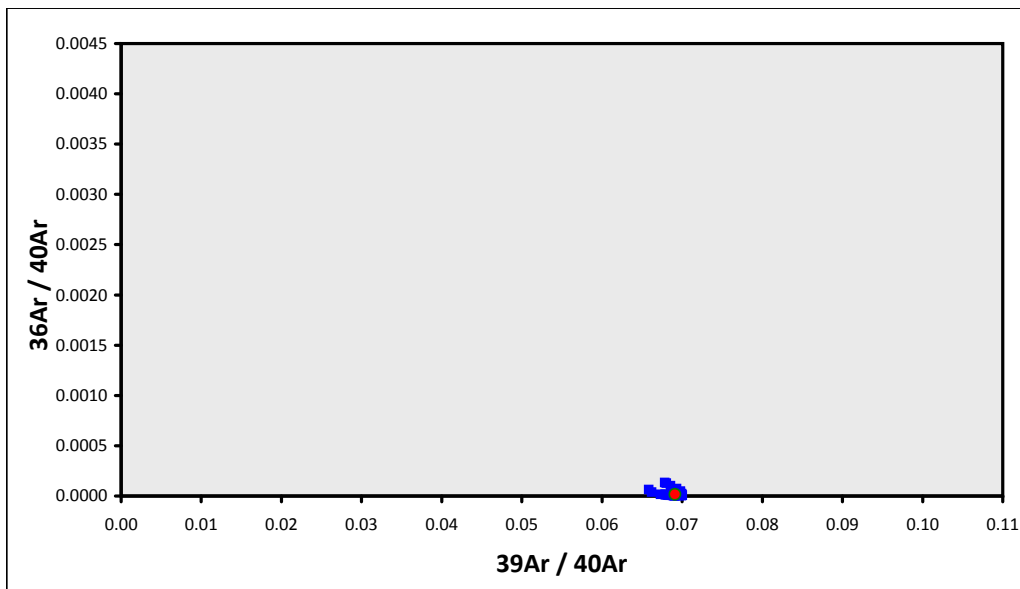
Total Fusion Age	14.39916 ± 0.00495 ± 0.03%	41.71 ± 0.16 ± 0.39%	37	5.77 ± 0.13
		Full External Error ± 0.95		Analytical Error ± 0.01

Normal Isochron
 Cannot Calculate

Inverse Isochron
 Cannot Calculate



Terrible, barely any plateau.

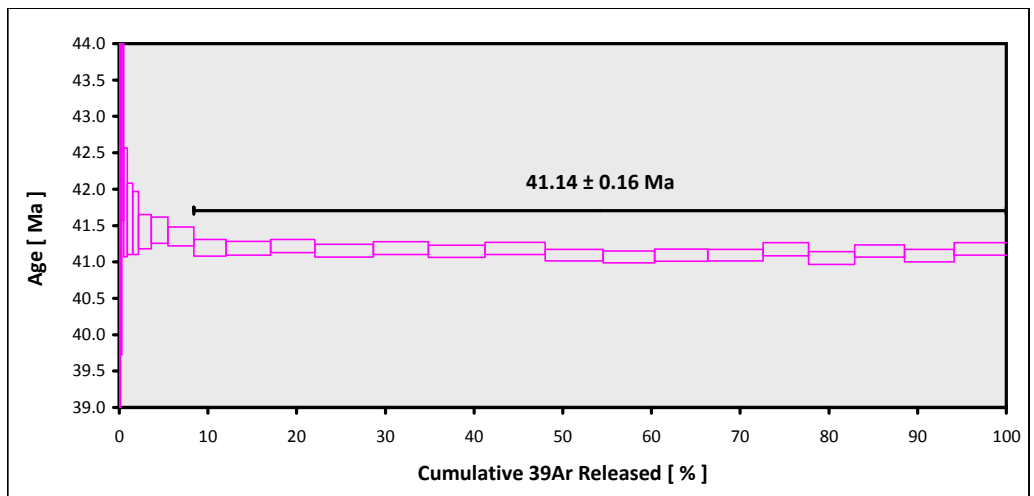


EXP#14D32791 > MV1203-D60-02 > Biotite > MV1203 (13-INT-04)
WALVIS RIDGE > CONTEST SEAMOUNT
14-OSU-04 (4B28-14) > Incremental Heating > Susan Schnur

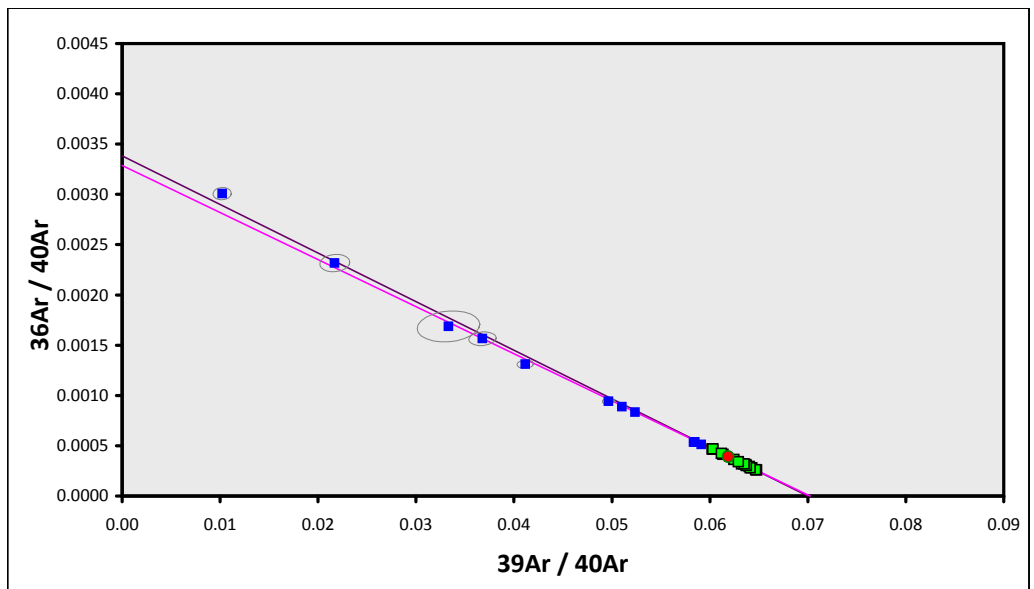
**Information on Analysis
 and Constants Used in Calculations**

Project = **MV1203 (13-INT-04)**
 Sample = **MV1203-D60-02**
 Material = **Biotite**
 Location = **Contest Seamount**
 Region = **Walvis Ridge**
 Analyst = **Susan Schnur**
 Irradiation = **14-OSU-04 (4B28-14)**
 Position = **X: 0 | Y: 0 | Z/H: 41.82 mm**
 FCT-NM Age = **28.201 ± 0.023 Ma**
 FCT-NM Reference = **Kuiper et al (2008)**
 FCT-NM 40Ar/39Ar Ratio = **9.75898 ± 0.01913**
 FCT-NM J-value = **0.00161056 ± 0.00000316**
 Air Shot 40Ar/36Ar = **303.7090 ± 0.4981**
 Air Shot MDF = **0.99323398 ± 0.00070196 (LIN)**
 Experiment Type = **Incremental Heating**
 Extraction Method = **Bulk Laser Heating**
 Heating = **77 sec**
 Isolation = **6.00 min**
 Instrument = **ARGUS-VI-D**
 Preferred Age = **Plateau Age**
 Age Classification = **Eruption Age**
 IGSN = **IESRS0045**
 Rock Class = **Igneous>Volcanic>Mafic**
 Lithology = **Trachyte**
 Lat-Lon = **36°17.3'S - 1°34.4'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	40(a)/36(a) ± 2σ	40(r)/39(k) ± 2σ	Age ± 2σ (Ma)	MSWD	39Ar(k) (% ,n)	K/Ca ± 2σ
Age Plateau		14.28714 ± 0.00903 ± 0.06%	41.14 ± 0.16 ± 0.39% Full External Error ± 0.94 Analytical Error ± 0.03	1.42 13%	91.58 16	26 ± 49 2σ Confidence Limit Error Magnification
Total Fusion Age		14.29689 ± 0.00784 ± 0.05%	41.17 ± 0.16 ± 0.39% Full External Error ± 0.94 Analytical Error ± 0.02		27	915 ± 5010
Normal Isochron	304.80 ± 6.03 ± 1.98%	14.23632 ± 0.03370 ± 0.24%	40.99 ± 0.19 ± 0.45% Full External Error ± 0.94 Analytical Error ± 0.10	0.93 53%	91.58 16	2σ Confidence Limit Error Magnification
Inverse Isochron	304.11 ± 6.02 ± 1.98%	14.24022 ± 0.03370 ± 0.24%	41.00 ± 0.19 ± 0.45% Full External Error ± 0.94 Analytical Error ± 0.10	0.93 53%	91.58 16	2σ Confidence Limit Error Magnification 6% Spreading Factor



Good plateau

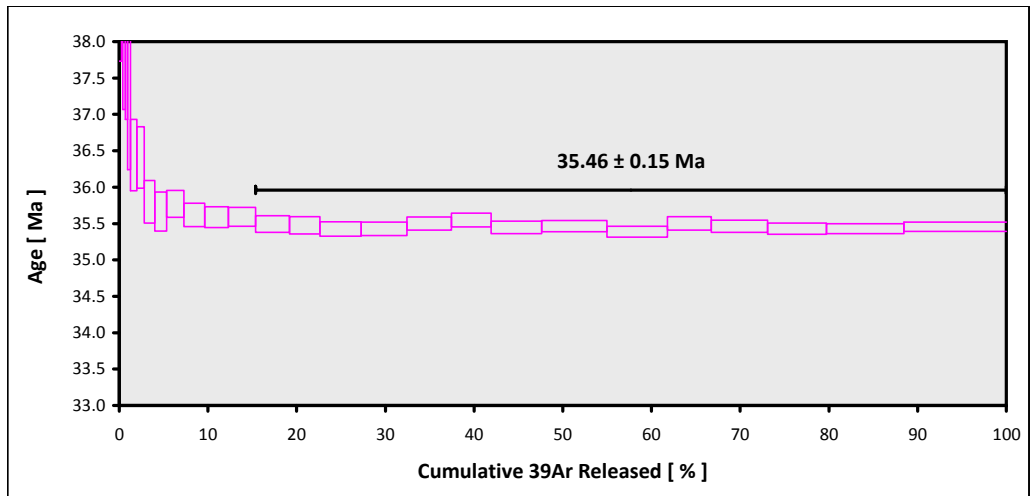


EXP#14D32879 > MV1203-D56-18 > Biotite > MV1203 (13-INT-04)
WALVIS RIDGE > HARPOONER GUYOT
14-OSU-04 (4B17-14) > Incremental Heating > Susan Schnur

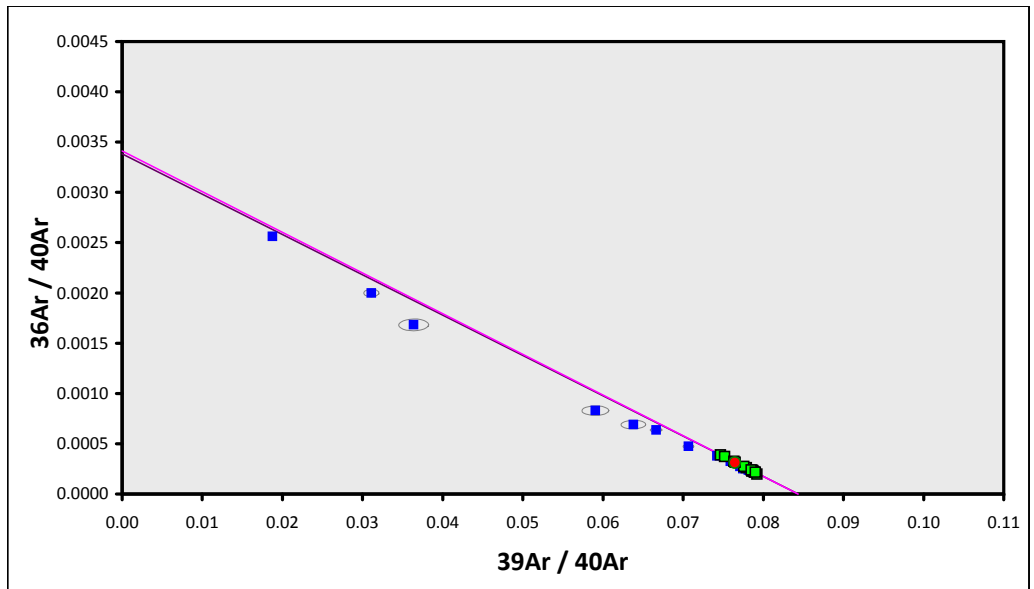
**Information on Analysis
 and Constants Used in Calculations**

Project = **MV1203 (13-INT-04)**
 Sample = **MV1203-D56-18**
 Material = **Biotite**
 Location = **Harpooner Guyot**
 Region = **Walvis Ridge**
 Analyst = **Susan Schnur**
 Irradiation = **14-OSU-04 (4B17-14)**
 Position = **X: 0 | Y: 0 | Z/H: 27 mm**
 FCT-NM Age = **28.201 ± 0.023 Ma**
 FCT-NM Reference = **Kuiper et al (2008)**
 FCT-NM 40Ar/39Ar Ratio = **9.40663 ± 0.01919**
 FCT-NM J-value = **0.00167088 ± 0.00000341**
 Air Shot 40Ar/36Ar = **303.7070 ± 0.4981**
 Air Shot MDF = **0.99323558 ± 0.00070196 (LIN)**
 Experiment Type = **Incremental Heating**
 Extraction Method = **Bulk Laser Heating**
 Heating = **60 sec**
 Isolation = **6.00 min**
 Instrument = **ARGUS-VI-D**
 Preferred Age = **Plateau Age**
 Age Classification = **Eruption Age**
 IGSN = **IESRS0046**
 Rock Class = **Igneous>Volcanic>Mafic**
 Lithology = **Trachyte**
 Lat-Lon = **37°18.2'S - 3°49.3'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	40(a)/36(a) ± 2σ	40(r)/39(k) ± 2σ	Age ± 2σ (Ma)	MSWD	39Ar(k) (%n)	K/Ca ± 2σ
Age Plateau		11.85028 ± 0.00764 ± 0.06%	35.46 ± 0.15 ± 0.41% Full External Error ± 0.81 Analytical Error ± 0.02	0.87 59% 1.78 1.0000	84.65 14 2σ Confidence Limit Error Magnification	5.6 ± 0.6
Total Fusion Age		11.87757 ± 0.00788 ± 0.07%	35.54 ± 0.15 ± 0.41% Full External Error ± 0.81 Analytical Error ± 0.02		27	8.6 ± 0.9
Normal Isochron	291.67 ± 10.46 ± 3.59%	11.86299 ± 0.03554 ± 0.30%	35.49 ± 0.18 ± 0.50% Full External Error ± 0.82 Analytical Error ± 0.11	0.92 52% 1.82 1.0000	84.65 14 2σ Confidence Limit Error Magnification	
Inverse Isochron	293.00 ± 10.45 ± 3.57%	11.85860 ± 0.03552 ± 0.30%	35.48 ± 0.18 ± 0.50% Full External Error ± 0.82 Analytical Error ± 0.11	0.92 52% 1.82 1.0000	84.65 14 2σ Confidence Limit Error Magnification 5% Spreading Factor	



Good plateau

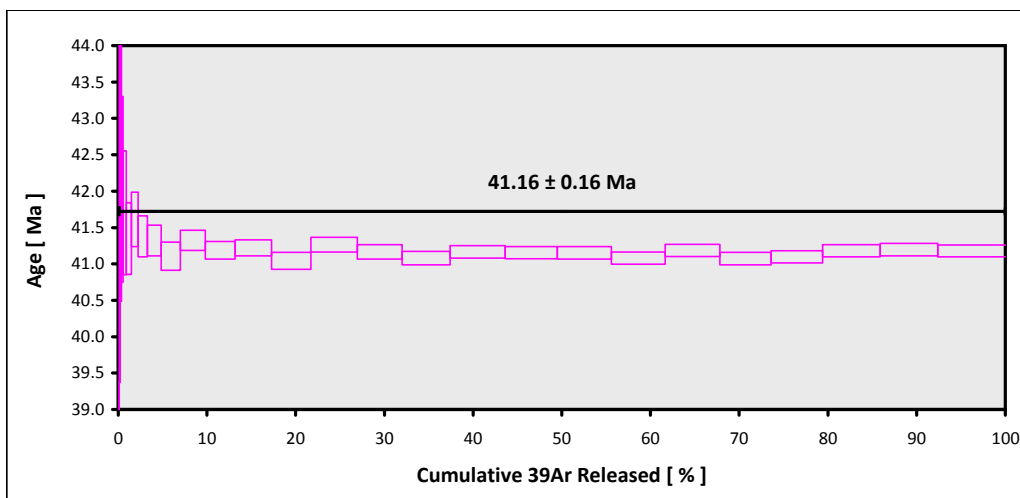


EXP#14D34726 > MV1203-D60-04 > Biotite > MV1203 (13-INT-04)
WALVIS RIDGE > CONTEST SEAMOUNT
14-OSU-04 (R98) > Incremental Heating > Dan Miggins

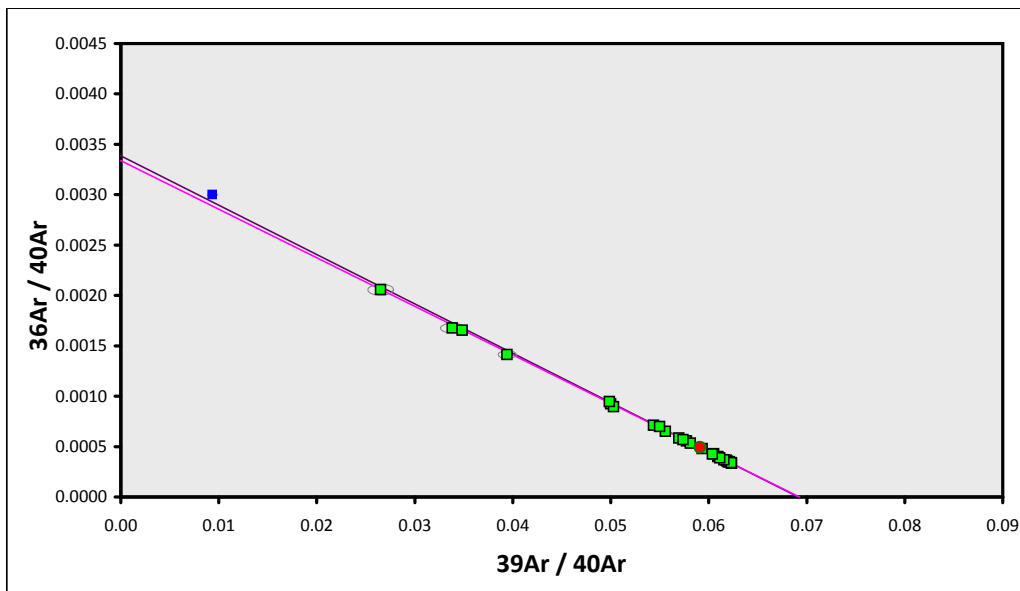
**Information on Analysis
 and Constants Used in Calculations**

Project = **MV1203 (13-INT-04)**
 Sample = **MV1203-D60-04**
 Material = **Biotite**
 Location = **Contest Seamount**
 Region = **Walvis Ridge**
 Analyst = **Dan Miggins**
 Irradiation = **14-OSU-04 (R98)**
 Position = **X: 0 | Y: 0 | Z/H: 45.82 mm**
 FCT-NM Age = **28.201 ± 0.023 Ma**
 FCT-NM Reference = **Kuiper et al (2008)**
 FCT-NM 40Ar/39Ar Ratio = **9.87502 ± 0.01916**
 FCT-NM J-value = **0.00159163 ± 0.00000309**
 Air Shot 40Ar/36Ar = **303.3370 ± 0.5096**
 Air Shot MDF = **0.99353266 ± 0.00070841 (LIN)**
 Experiment Type = **Incremental Heating**
 Extraction Method = **Bulk Laser Heating**
 Heating = **60 sec**
 Isolation = **6.00 min**
 Instrument = **ARGUS-VI-D**
 Preferred Age = **Plateau Age**
 Age Classification = **Eruption Age**
 IGSN = **IESRS0047**
 Rock Class = **Igneous>Volcanic>Mafic**
 Lithology = **Trachyte**
 Lat-Lon = **36°17.3'S - 1°34.4'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	40(a)/36(a) ± 2σ	40(r)/39(k) ± 2σ	Age ± 2σ (Ma)	MSWD	39Ar(k) (%n)	K/Ca ± 2σ
Age Plateau						
Error Mean		14.46501 ± 0.01071 ± 0.07%	41.16 ± 0.16 ± 0.39%	1.89	99.90	1 ± 1
			Full External Error ± 0.94	0%	26	
			Analytical Error ± 0.03	1.57	2σ Confidence Limit	
				1.3765	Error Magnification	
Total Fusion Age		14.46665 ± 0.00819 ± 0.06%	41.17 ± 0.16 ± 0.39%		27	440 ± 1507
			Full External Error ± 0.94			
			Analytical Error ± 0.02			
Normal Isochron	299.78 ± 3.51	14.43345 ± 0.02746 ± 0.19%	41.07 ± 0.18 ± 0.43%	1.61	99.90	
Error Chron	± 1.17%		Full External Error ± 0.94	3%	26	
			Analytical Error ± 0.08	1.58	2σ Confidence Limit	
				1.2704	Error Magnification	
Inverse Isochron	299.63 ± 3.50	14.43489 ± 0.02743 ± 0.19%	41.08 ± 0.18 ± 0.43%	1.61	99.90	
Error Chron	± 1.17%		Full External Error ± 0.94	3%	26	
			Analytical Error ± 0.08	1.58	2σ Confidence Limit	
				1.2681	Error Magnification	
				52%	Spreading Factor	



Good plateau

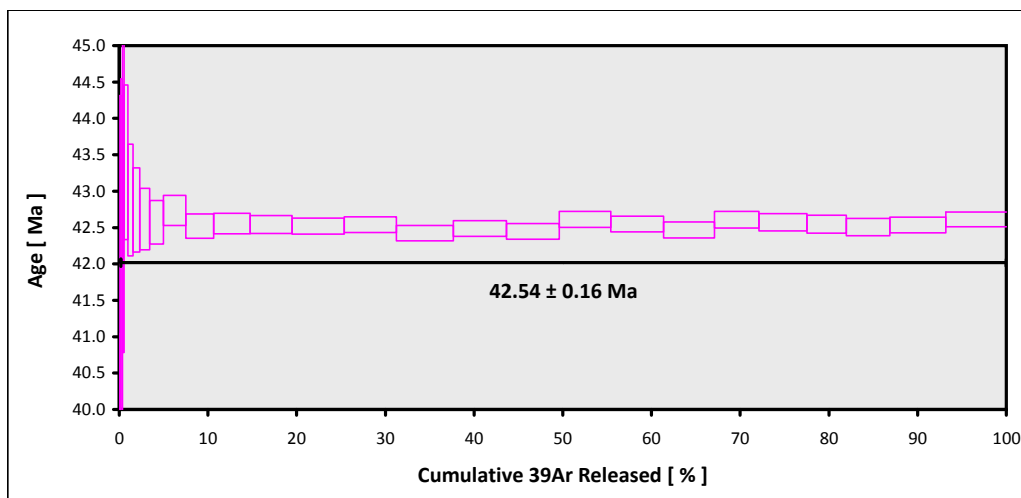


EXP#14D34764 > MV1203-D61-06A > Biotite > MV1203 (13-INT-04)
WALVIS RIDGE > MAYBE SEAMOUNT
14-OSU-04 (R98) > Incremental Heating > Dan Miggins

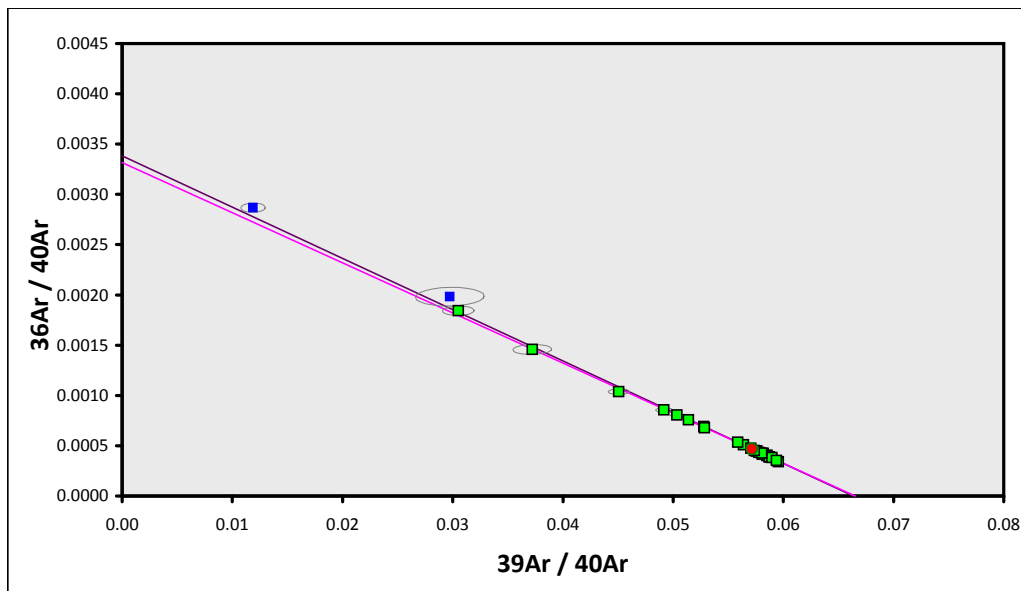
**Information on Analysis
 and Constants Used in Calculations**

Project = **MV1203 (13-INT-04)**
 Sample = **MV1203-D61-06A**
 Material = **Biotite**
 Location = **Maybe Seamount**
 Region = **Walvis Ridge**
 Analyst = **Dan Miggins**
 Irradiation = **14-OSU-04 (R98)**
 Position = **X: 0 | Y: 0 | Z/H: 48.36 mm**
 FCT-NM Age = **28.201 ± 0.023 Ma**
 FCT-NM Reference = **Kuiper et al (2008)**
 FCT-NM 40Ar/39Ar Ratio = **9.95332 ± 0.01911**
 FCT-NM J-value = **0.00157911 ± 0.00000303**
 Air Shot 40Ar/36Ar = **303.3300 ± 0.5096**
 Air Shot MDF = **0.99353829 ± 0.00070843 (LIN)**
 Experiment Type = **Incremental Heating**
 Extraction Method = **Bulk Laser Heating**
 Heating = **60 sec**
 Isolation = **6.00 min**
 Instrument = **ARGUS-VI-D**
 Preferred Age = **Plateau Age**
 Age Classification = **Eruption Age**
 IGSN = **IESRS0048**
 Rock Class = **Igneous>Volcanic>Mafic**
 Lithology = **Phonolitic-Tephrite**
 Lat-Lon = **37°12.1'S - 1°08.5'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	40(a)/36(a) ± 2σ	40(r)/39(k) ± 2σ	Age ± 2σ (Ma)	MSWD	39Ar(k) (% _n)	K/Ca ± 2σ
Age Plateau		15.07281 ± 0.00987 ± 0.07%	42.54 ± 0.16 ± 0.38% Full External Error ± 0.97 Analytical Error ± 0.03	1.03 42% 1.58 1.0140	99.83 25 2σ Confidence Limit Error Magnification	5.8 ± 2.2
Total Fusion Age		15.07304 ± 0.01053 ± 0.07%	42.54 ± 0.16 ± 0.39% Full External Error ± 0.97 Analytical Error ± 0.03		27	16.0 ± 3.3
Normal Isochron	301.40 ± 5.96 ± 1.98%	15.02862 ± 0.04555 ± 0.30%	42.41 ± 0.21 ± 0.48% Full External Error ± 0.97 Analytical Error ± 0.13	0.90 59% 1.59 1.0000	99.83 25 2σ Confidence Limit Error Magnification	
Inverse Isochron	301.42 ± 5.95 ± 1.97%	15.02870 ± 0.04552 ± 0.30%	42.41 ± 0.21 ± 0.48% Full External Error ± 0.97 Analytical Error ± 0.13	0.90 59% 1.59 1.0000	99.83 25 2σ Confidence Limit Error Magnification 44% Spreading Factor	



Good plateau

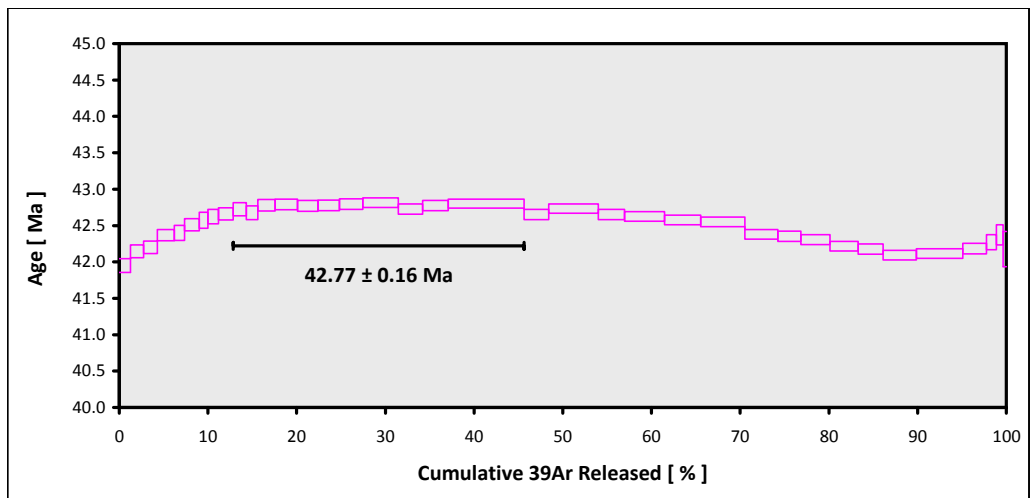


EXP#15D03834 > MV1203-D62-03 > Groundmass > MV1203 (13-INT-04)
WALVIS RIDGE > MAYBE SEAMOUNT
14-OSU-04 (R98) > Incremental Heating > Susan Schnur

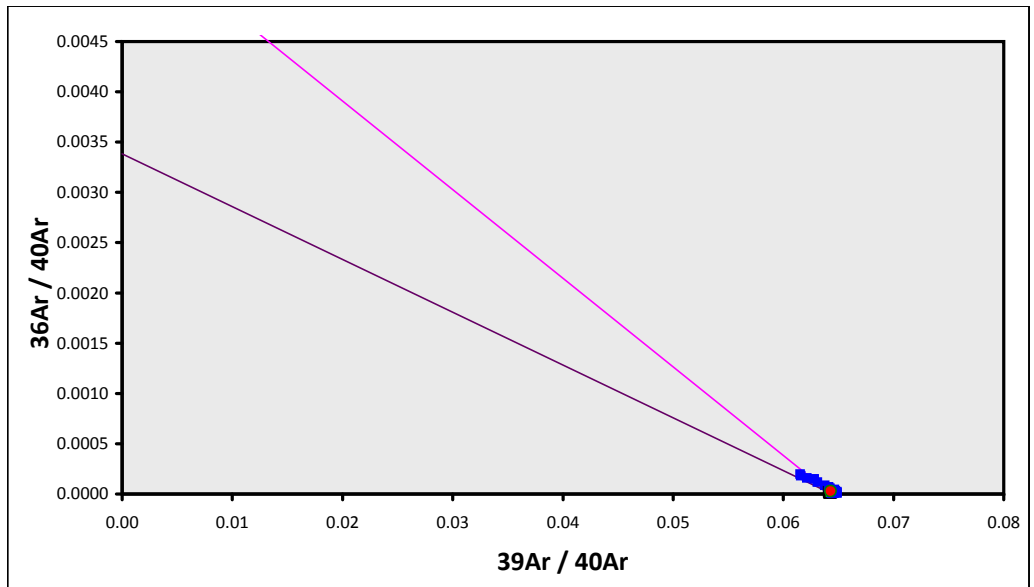
**Information on Analysis
 and Constants Used in Calculations**

Project = **MV1203 (13-INT-04)**
 Sample = **MV1203-D62-03**
 Material = **Groundmass**
 Location = **Maybe Seamount**
 Region = **Walvis Ridge**
 Analyst = **Susan Schnur**
 Irradiation = **14-OSU-04 (R98)**
 Position = **X: 0 | Y: 0 | Z/H: 55.4 mm**
 FCT-NM Age = **28.201 ± 0.023 Ma**
 FCT-NM Reference = **Kuiper et al (2008)**
 FCT-NM 40Ar/39Ar Ratio = **10.18912 ± 0.01916**
 FCT-NM J-value = **0.00154257 ± 0.00000290**
 Air Shot 40Ar/36Ar = **303.4910 ± 0.5311**
 Air Shot MDF = **0.99340892 ± 0.00071805 (LIN)**
 Experiment Type = **Incremental Heating**
 Extraction Method = **Bulk Laser Heating**
 Heating = **77 sec**
 Isolation = **6.00 min**
 Instrument = **ARGUS-VI-D**
 Preferred Age = **Plateau Age**
 Age Classification = **Eruption Age**
 IGSN = **IESRS0049**
 Rock Class = **Igneous>Volcanic>Mafic**
 Lithology = **Trachyandesite**
 Lat-Lon = **37°14.8'S - 1°09.6'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	40(a)/36(a) ± 2σ	40(r)/39(k) ± 2σ	Age ± 2σ (Ma)	MSWD	39Ar(k) (%n)	K/Ca ± 2σ
Age Plateau		15.51656 ± 0.00814 ± 0.05%	42.77 ± 0.16 ± 0.38% Full External Error ± 0.97 Analytical Error ± 0.02	0.99 45% 1.89 1.0000	32.80 11 2σ Confidence Limit Error Magnification	2.25 ± 0.11
Total Fusion Age		15.42676 ± 0.00482 ± 0.03%	42.53 ± 0.16 ± 0.37% Full External Error ± 0.97 Analytical Error ± 0.01		37	2.47 ± 0.07
Normal Isochron	215.61 ± 136.88 ± 63.48%	15.53034 ± 0.02671 ± 0.17%	42.81 ± 0.17 ± 0.41% Full External Error ± 0.98 Analytical Error ± 0.07	0.85 57% 1.94 1.0000	32.80 11 2σ Confidence Limit Error Magnification	
Inverse Isochron Clustered Points	176.32 ± 95.99 ± 54.44%	15.53860 ± 0.02667 ± 0.17%	42.83 ± 0.17 ± 0.41% Full External Error ± 0.98 Analytical Error ± 0.07	0.79 62% 1.94 1.0000	32.80 11 2σ Confidence Limit Error Magnification 0% Spreading Factor	



Not great, excess argon. Small plateau is acceptable.

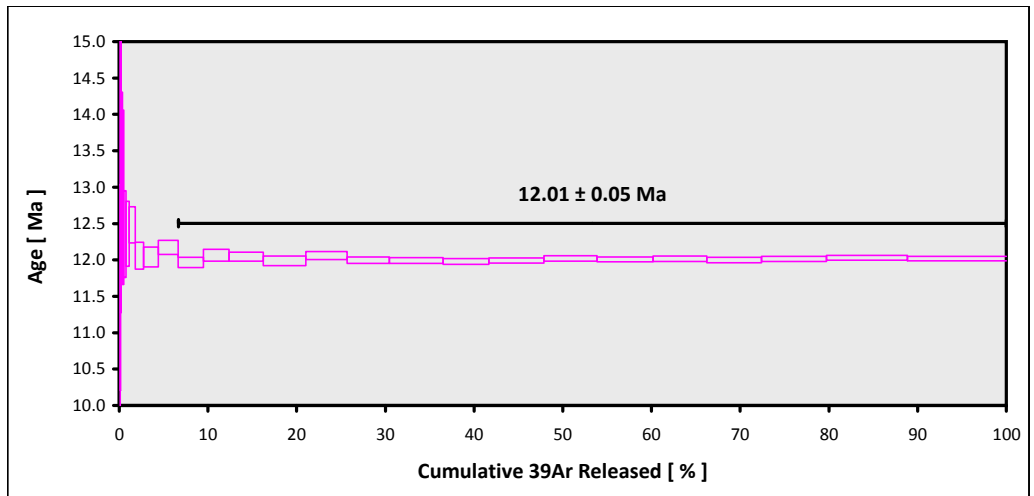


EXP#15D03885 > MV1203-D48-04 > Biotite > MV1203 (13-INT-04)
WALVIS RIDGE > JAHONT GUYOT
14-OSU-04 (R98) > Incremental Heating > Susan Schnur

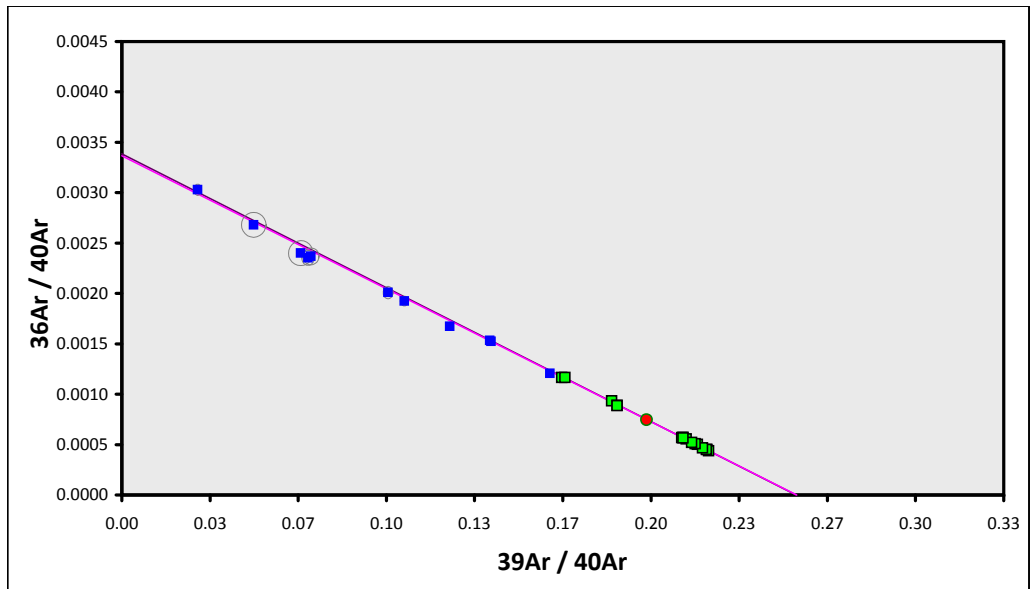
**Information on Analysis
 and Constants Used in Calculations**

Project = **MV1203 (13-INT-04)**
 Sample = **MV1203-D48-04**
 Material = **Biotite**
 Location = **Jahont Guyot**
 Region = **Walvis Ridge**
 Analyst = **Susan Schnur**
 Irradiation = **14-OSU-04 (R98)**
 Position = **X: 0 | Y: 0 | Z/H: 18.16 mm**
 FCT-NM Age = **28.201 ± 0.023 Ma**
 FCT-NM Reference = **Kuiper et al (2008)**
 FCT-NM 40Ar/39Ar Ratio = **9.25463 ± 0.01916**
 FCT-NM J-value = **0.00169833 ± 0.00000352**
 Air Shot 40Ar/36Ar = **303.4860 ± 0.5311**
 Air Shot MDF = **0.99341294 ± 0.00071807 (LIN)**
 Experiment Type = **Incremental Heating**
 Extraction Method = **Bulk Laser Heating**
 Heating = **77 sec**
 Isolation = **6.00 min**
 Instrument = **ARGUS-VI-D**
 Preferred Age = **Plateau Age**
 Age Classification = **Eruption Age**
 IGSN = **IESRS0050**
 Rock Class = **Igneous>Volcanic>Mafic**
 Lithology = **Trachyte**
 Lat-Lon = **39°33.1'S - 7°50.0'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	40(a)/36(a) ± 2σ	40(r)/39(k) ± 2σ	Age ± 2σ (Ma)	MSWD	39Ar(k) (%n)	K/Ca ± 2σ
Age Plateau		3.92373 ± 0.00339 ± 0.09%	12.01 ± 0.05 ± 0.42%	1.06	93.35	7 ± 9
			Full External Error ± 0.28	39%	16	
			Analytical Error ± 0.01	1.73	2σ Confidence Limit	
				1.0275	Error Magnification	
Total Fusion Age		3.92855 ± 0.00371 ± 0.09%	12.02 ± 0.05 ± 0.42%		27	1588 ± 78858
			Full External Error ± 0.28			
			Analytical Error ± 0.01			
Normal Isochron	297.20 ± 3.05 ± 1.03%	3.91893 ± 0.00900 ± 0.23%	12.00 ± 0.06 ± 0.47%	1.06	93.35	
			Full External Error ± 0.28	39%	16	
			Analytical Error ± 0.03	1.76	2σ Confidence Limit	
				1.0290	Error Magnification	
Inverse Isochron	297.05 ± 3.04 ± 1.02%	3.91951 ± 0.00898 ± 0.23%	12.00 ± 0.06 ± 0.47%	1.05	93.35	
			Full External Error ± 0.28	40%	16	
			Analytical Error ± 0.03	1.76	2σ Confidence Limit	
				1.0260	Error Magnification	
				22%	Spreading Factor	



Low T not great, but enough high-T steps to get Good plateau plateau and MSWD.

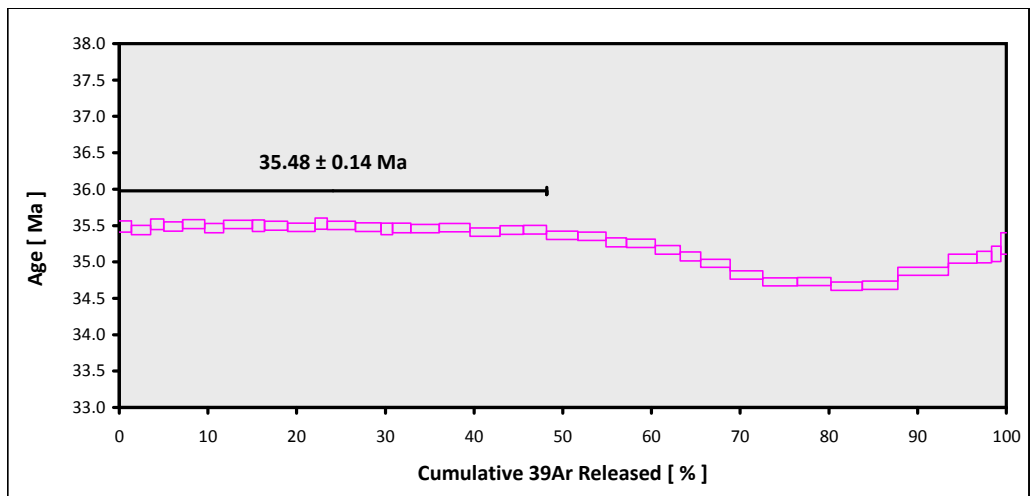


EXP#15D03973 > MV1203-D56-22 > Groundmass > MV1203 (13-INT-04)
WALVIS RIDGE > HARPOONER GUYOT
14-OSU-04 (R98) > Incremental Heating > Susan Schnur

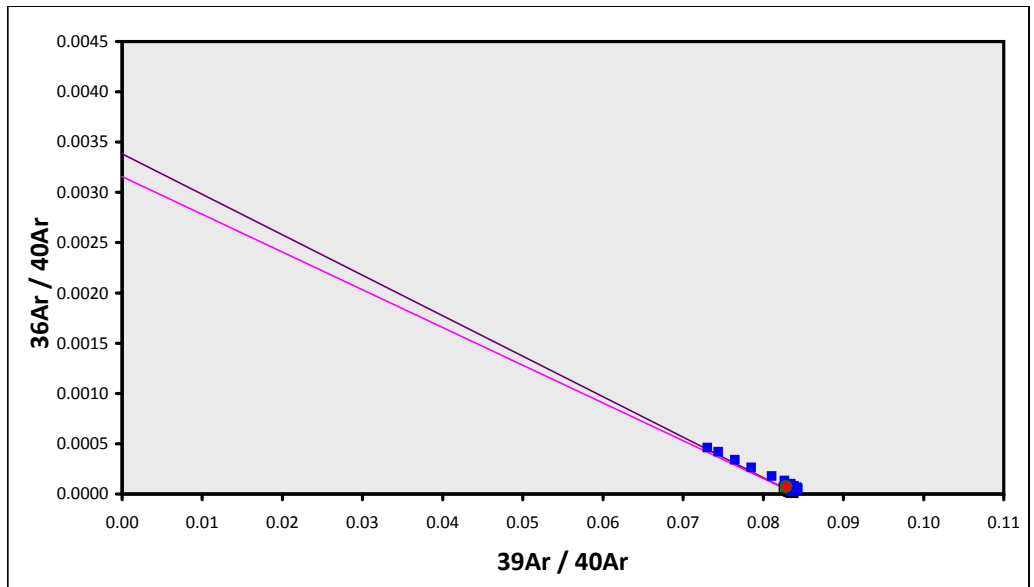
**Information on Analysis
 and Constants Used in Calculations**

Project = **MV1203 (13-INT-04)**
 Sample = **MV1203-D56-22**
 Material = **Groundmass**
 Location = **Harpooner Guyot**
 Region = **Walvis Ridge**
 Analyst = **Susan Schnur**
 Irradiation = **14-OSU-04 (R98)**
 Position = **X: 0 | Y: 0 | Z/H: 28.57 mm**
 FCT-NM Age = **28.201 ± 0.023 Ma**
 FCT-NM Reference = **Kuiper et al (2008)**
 FCT-NM 40Ar/39Ar Ratio = **9.43817 ± 0.01916**
 FCT-NM J-value = **0.00166530 ± 0.00000338**
 Air Shot 40Ar/36Ar = **303.4800 ± 0.5281**
 Air Shot MDF = **0.99341776 ± 0.00071664 (LIN)**
 Experiment Type = **Incremental Heating**
 Extraction Method = **Bulk Laser Heating**
 Heating = **77 sec**
 Isolation = **6.00 min**
 Instrument = **ARGUS-VI-D**
 Preferred Age = **Plateau Age**
 Age Classification = **Eruption Age**
 IGSN = **IESRS0051**
 Rock Class = **Igneous>Volcanic>Mafic**
 Lithology = **Trachyte**
 Lat-Lon = **37°18.2'S - 3°49.3'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	40(a)/36(a) ± 2σ	40(r)/39(k) ± 2σ	Age ± 2σ (Ma)	MSWD	39Ar(k) (%n)	K/Ca ± 2σ
Age Plateau		11.89680 ± 0.00478 ± 0.04%	35.48 ± 0.14 ± 0.40%	0.99 47%	48.17 20	9.50 ± 1.52
			Full External Error ± 0.81 Analytical Error ± 0.01	1.65 1.0000	2σ Confidence Limit Error Magnification	
Total Fusion Age		11.80988 ± 0.00352 ± 0.03%	35.22 ± 0.14 ± 0.40%		37	5.98 ± 0.34
			Full External Error ± 0.80 Analytical Error ± 0.01			
Normal Isochron	310.55 ± 48.28 ± 15.55%	11.89111 ± 0.01892 ± 0.16%	35.46 ± 0.15 ± 0.43%	1.00 46%	48.17 20	
			Full External Error ± 0.81 Analytical Error ± 0.06	1.67 1.0000	2σ Confidence Limit Error Magnification	
Inverse Isochron	316.77 ± 46.23 ± 14.59%	11.88875 ± 0.01894 ± 0.16%	35.45 ± 0.15 ± 0.43%	1.00 46%	48.17 20	
Clustered Points			Full External Error ± 0.81 Analytical Error ± 0.06	1.67 1.0000	2σ Confidence Limit Error Magnification	1% Spreading Factor



High-T has odd bowl shape, but low T steps may be enough for an age.

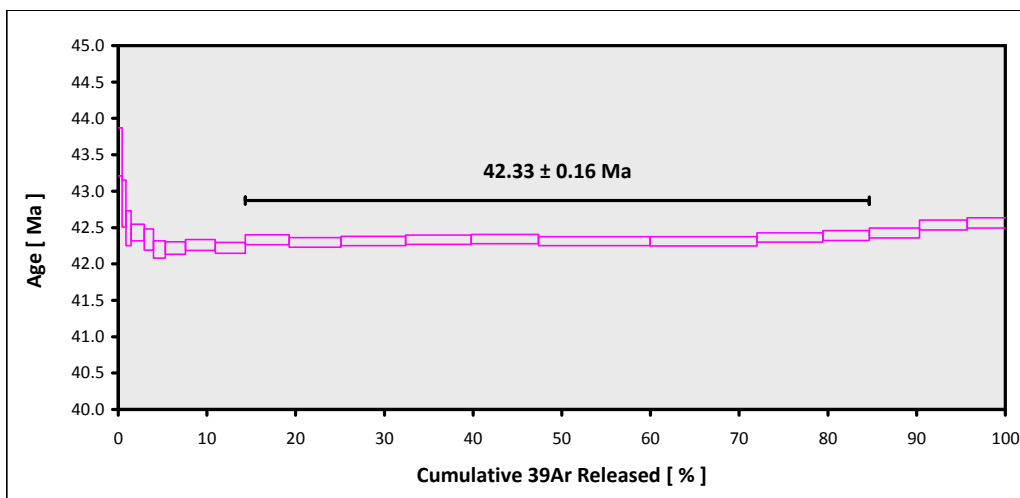


EXP#15D04024 > MV1203-D61-07C > Alkali-Feldspar > MV1203 (13-INT-04)
WALVIS RIDGE > MAYBE GUYOT
14-OSU-04 (R98) > Incremental Heating > Susan Schnur

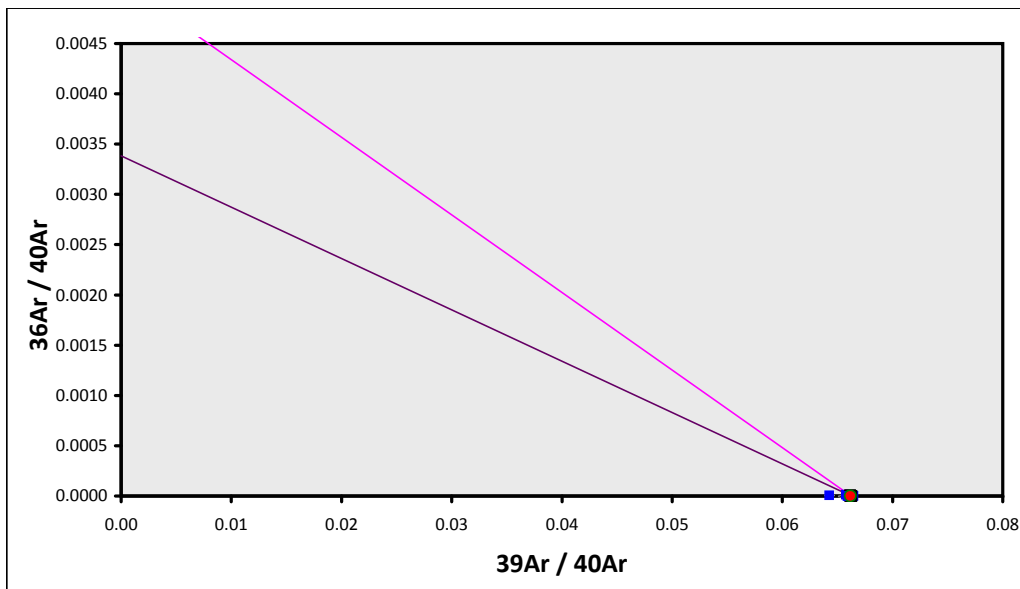
**Information on Analysis
 and Constants Used in Calculations**

Project = **MV1203 (13-INT-04)**
 Sample = **MV1203-D61-07C**
 Material = **Alkali-Feldspar**
 Location = **Maybe Guyot**
 Region = **Walvis Ridge**
 Analyst = **Susan Schnur**
 Irradiation = **14-OSU-04 (R98)**
 Position = **X: 0 | Y: 0 | Z/H: 50.3 mm**
 FCT-NM Age = **28.201 ± 0.023 Ma**
 FCT-NM Reference = **Kuiper et al (2008)**
 FCT-NM 40Ar/39Ar Ratio = **10.01555 ± 0.01913**
 FCT-NM J-value = **0.00156930 ± 0.00000300**
 Air Shot 40Ar/36Ar = **303.4750 ± 0.5280**
 Air Shot MDF = **0.99342177 ± 0.00071665 (LIN)**
 Experiment Type = **Incremental Heating**
 Extraction Method = **Bulk Laser Heating**
 Heating = **77 sec**
 Isolation = **6.00 min**
 Instrument = **ARGUS-VI-D**
 Preferred Age = **Plateau Age**
 Age Classification = **Eruption Age**
 IGSN = **IESRS0052**
 Rock Class = **Igneous>Volcanic>Mafic**
 Lithology = **Trachyte**
 Lat-Lon = **37°12.1'S - 1°08.5'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	40(a)/36(a) ± 2σ	40(r)/39(k) ± 2σ	Age ± 2σ (Ma)	MSWD	39Ar(k) (%n)	K/Ca ± 2σ
Age Plateau		15.09334 ± 0.00780 ± 0.05%	42.33 ± 0.16 ± 0.38% Full External Error ± 0.96 Analytical Error ± 0.02	0.78 62% 2.00 1.0000	70.35 9 2σ Confidence Limit Error Magnification	6.5 ± 0.6
Total Fusion Age		15.10164 ± 0.00641 ± 0.04%	42.36 ± 0.16 ± 0.38% Full External Error ± 0.96 Analytical Error ± 0.02		21	6.9 ± 0.7
Normal Isochron	68.04 ± 356.32 #####	15.11305 ± 0.01702 ± 0.11%	42.39 ± 0.17 ± 0.39% Full External Error ± 0.97 Analytical Error ± 0.05	1.42 19% 2.07 1.1924	70.35 9 2σ Confidence Limit Error Magnification	
Inverse Isochron Clustered Points	195.61 ± 140.36 ± 71.75%	15.09619 ± 0.01074 ± 0.07%	42.34 ± 0.16 ± 0.38% Full External Error ± 0.96 Analytical Error ± 0.03	0.81 58% 2.07 1.0000	70.35 9 2σ Confidence Limit Error Magnification 0% Spreading Factor	



Good plateau



EXP#15D04054 > MV1203-D62-01 > Groundmass > MV1203 (13-INT-04)
WALVIS RIDGE > MAYBE GUYOT
14-OSU-04 (R98) > Incremental Heating > Susan Schnur

**Information on Analysis
 and Constants Used in Calculations**

Project = **MV1203 (13-INT-04)**
 Sample = **MV1203-D62-01**
 Material = **Groundmass**
 Location = **Maybe Guyot**
 Region = **Walvis Ridge**
 Analyst = **Susan Schnur**
 Irradiation = **14-OSU-04 (R98)**
 Position = **X: 0 | Y: 0 | Z/H: 52.46 mm**
 FCT-NM Age = **28.201 ± 0.023 Ma**
 FCT-NM Reference = **Kuiper et al (2008)**
 FCT-NM 40Ar/39Ar Ratio = **10.08730 ± 0.01917**
 FCT-NM J-value = **0.00155814 ± 0.00000296**
 Air Shot 40Ar/36Ar = **303.4710 ± 0.5280**
 Air Shot MDF = **0.99342499 ± 0.00071666 (LIN)**
 Experiment Type = **Incremental Heating**
 Extraction Method = **Bulk Laser Heating**
 Heating = **77 sec**
 Isolation = **6.00 min**
 Instrument = **ARGUS-VI-D**
 Preferred Age = **Undefined**
 Age Classification = **Undefined**
 IGSN = **IESRS0053**
 Rock Class = **Igneous>Volcanic>Mafic**
 Lithology = **Trachyte**
 Lat-Lon = **37°14.8'S - 1°09.6'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**

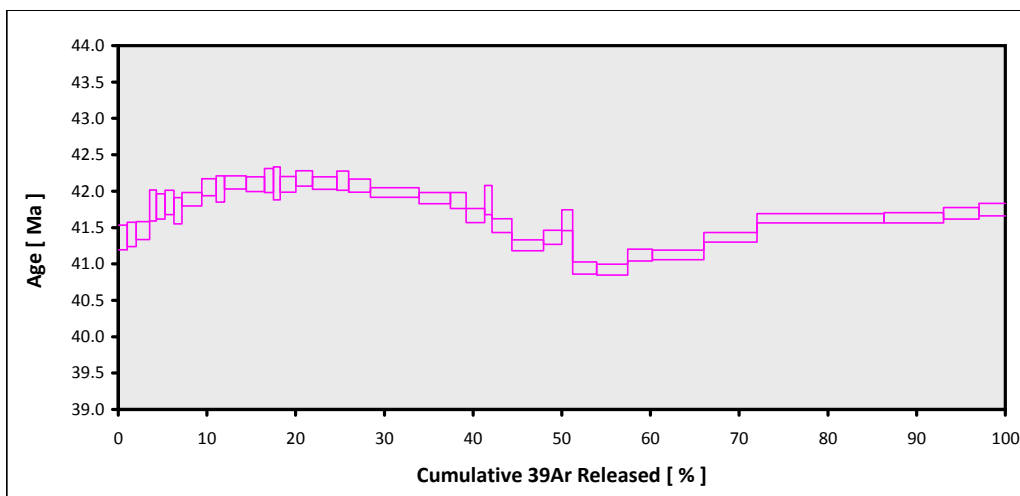
Results	40(a)/36(a) ± 2σ	40(r)/39(k) ± 2σ	Age ± 2σ (Ma)	MSWD	39Ar(k) (%n)	K/Ca ± 2σ
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Age Plateau
 Cannot Calculate

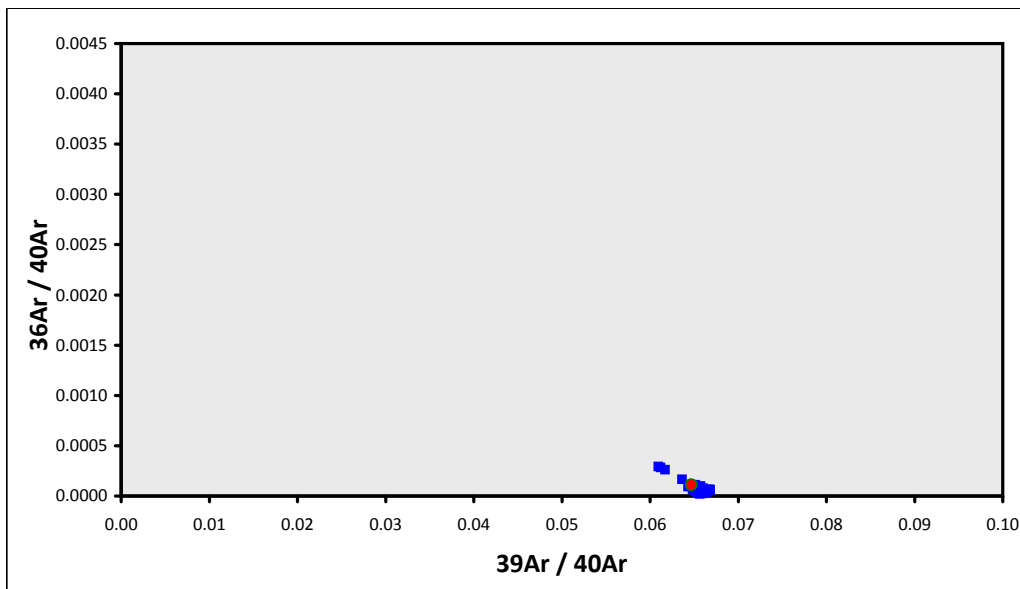
Total Fusion Age	14.95082 ± 0.00612 ± 0.04%	41.64 ± 0.16 ± 0.38%	37	5.05 ± 0.25		
		Full External Error ± 0.95				
		Analytical Error ± 0.02				

Normal Isochron
 Cannot Calculate

Inverse Isochron
 Cannot Calculate



Strange things going on at high-T, plateau very poor.



EXP#16D02823 > MV1203-D02-01 > Groundmass > MV1203 (13-INT-04)
WALVIS RIDGE > ISHMAEL GUYOT
15-OSU-07 (7A2-15) > Incremental Heating > Susan Schnur

**Information on Analysis
 and Constants Used in Calculations**

Project = **MV1203 (13-INT-04)**
 Sample = **MV1203-D02-01**
 Material = **Groundmass**
 Location = **Ishmael Guyot**
 Region = **Walvis Ridge**
 Analyst = **Susan Schnur**
 Irradiation = **15-OSU-07 (7A2-15)**
 Position = **X: 0 | Y: 0 | Z/H: 4.38 mm**
 FCT-NM Age = **28.201 ± 0.023 Ma**
 FCT-NM Reference = **Kuiper et al (2008)**
 FCT-NM 40Ar/39Ar Ratio = **8.87021 ± 0.01419**
 FCT-NM J-value = **0.00177193 ± 0.00000284**
 Air Shot 40Ar/36Ar = **303.9280 ± 0.6261**
 Air Shot MDF = **0.99305848 ± 0.00076425 (LIN)**
 Experiment Type = **Incremental Heating**
 Extraction Method = **Bulk Laser Heating**
 Heating = **77 sec**
 Isolation = **3.00 min**
 Instrument = **ARGUS-VI-D**
 Preferred Age = **Undefined**
 Age Classification = **Undefined**
 IGSN = **IESRS0054**
 Rock Class = **Igneous>Volcanic>Mafic**
 Lithology = **Basaltic-Trachyandesite**
 Lat-Lon = **34°36.2'S - 0°55.4'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) = **0.0006756 ± 0.0000089**
 Production 38/37(ca) = **0.0000718 ± 0.0000092**
 Production 36/37(ca) = **0.0002663 ± 0.0000004**
 Production 40/39(k) = **0.003823 ± 0.000102**
 Production 38/39(k) = **0.012031 ± 0.000019**
 Production 36/38(cl) = **262.80 ± 1.71**
 Scaling Ratio K/Ca = **0.430**
 Abundance Ratio 40K/K = **1.1700 ± 0.0100 E-04**
 Atomic Weight K = **39.0983 ± 0.0001 g**

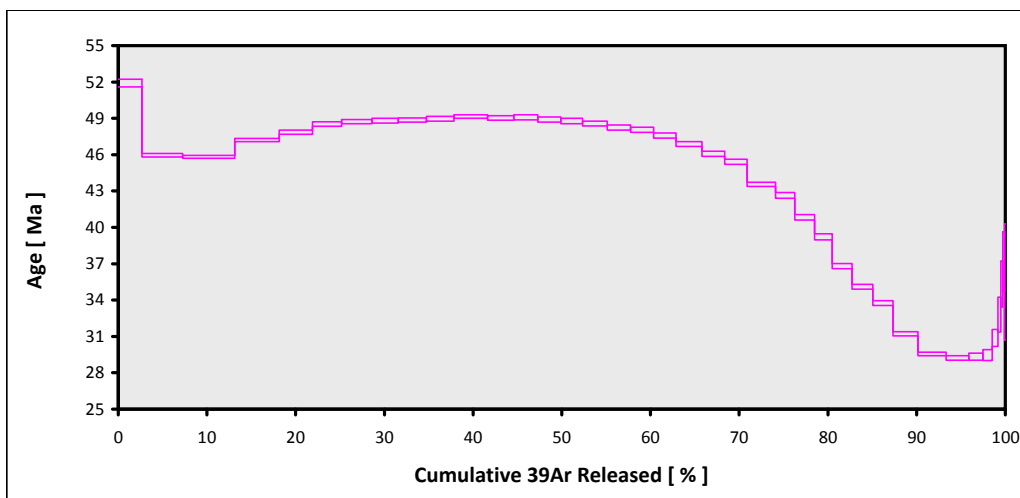
Results	40(a)/36(a) ± 2σ	40(r)/39(k) ± 2σ	Age ± 2σ (Ma)	MSWD	39Ar(k) (% _n)	K/Ca ± 2σ
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Age Plateau
 Cannot Calculate

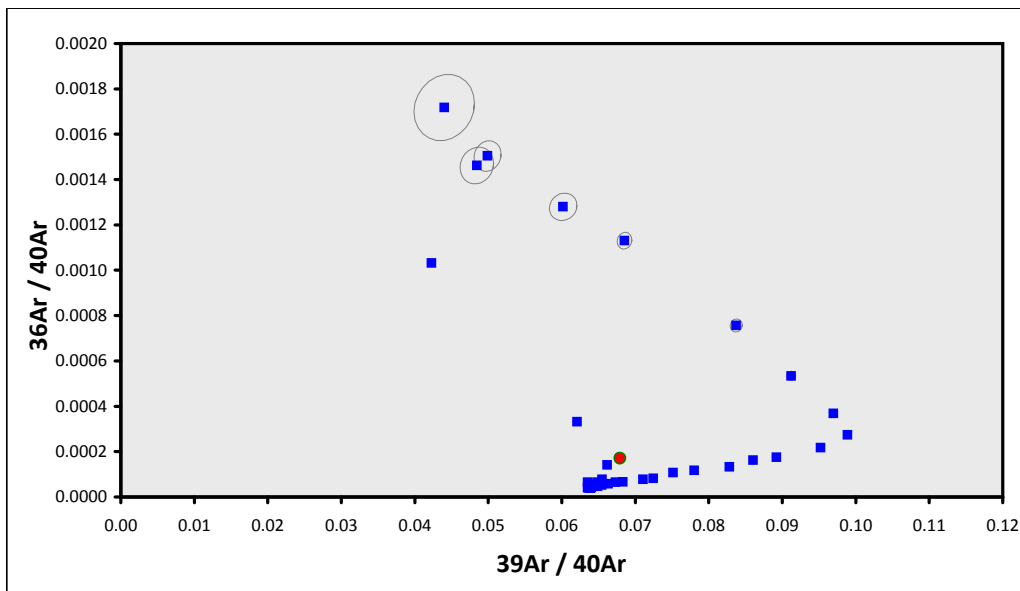
Total Fusion Age	13.98444 ± 0.01101 ± 0.08%	44.26 ± 0.14 ± 0.33%	39	0.103 ± 0.000
		Full External Error ± 1.00		
		Analytical Error ± 0.03		

Normal Isochron
 Cannot Calculate

Inverse Isochron
 Cannot Calculate



Very minimal plateau that likely reflects the correct age, if not for excess argon.



EXP#16D02932 > MV1203-D02-08 > Groundmass > MV1203 (13-INT-04)
WALVIS RIDGE > ISHMAEL GUYOT
15-OSU-07 (7A3-15) > Incremental Heating > Susan Schnur

**Information on Analysis
 and Constants Used in Calculations**

Project = **MV1203 (13-INT-04)**
 Sample = **MV1203-D02-08**
 Material = **Groundmass**
 Location = **Ishmael Guyot**
 Region = **Walvis Ridge**
 Analyst = **Susan Schnur**
 Irradiation = **15-OSU-07 (7A3-15)**
 Position = **X: 0 | Y: 0 | Z/H: 6.65 mm**
 FCT-NM Age = **28.201 ± 0.023 Ma**
 FCT-NM Reference = **Kuiper et al (2008)**
 FCT-NM 40Ar/39Ar Ratio = **8.88929 ± 0.01422**
 FCT-NM J-value = **0.00176813 ± 0.00000283**
 Air Shot 40Ar/36Ar = **303.8640 ± 0.6229**
 Air Shot MDF = **0.99310974 ± 0.00076282 (LIN)**
 Experiment Type = **Incremental Heating**
 Extraction Method = **Bulk Laser Heating**
 Heating = **77 sec**
 Isolation = **3.00 min**
 Instrument = **ARGUS-VI-D**
 Preferred Age = **Undefined**
 Age Classification = **Undefined**
 IGSN = **IESRS055**
 Rock Class = **Igneous>Volcanic>Mafic**
 Lithology = **Basaltic trachyandesite**
 Lat-Lon = **34°36.2'S - 0°55.4'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) = **0.0006756 ± 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**

Downward slanting, possible a very minimal plateau at low-T, but inconclusive.

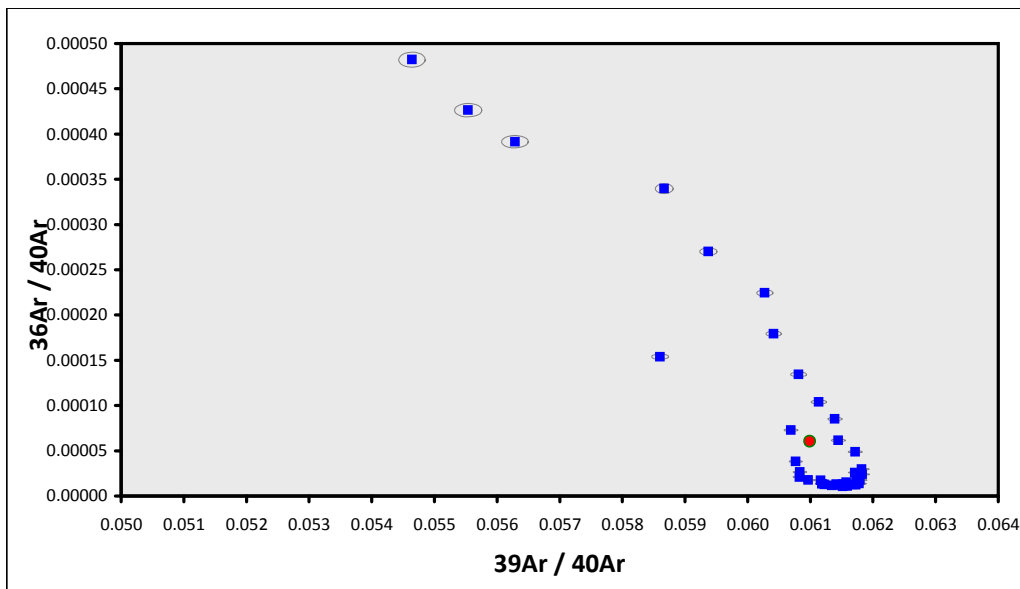
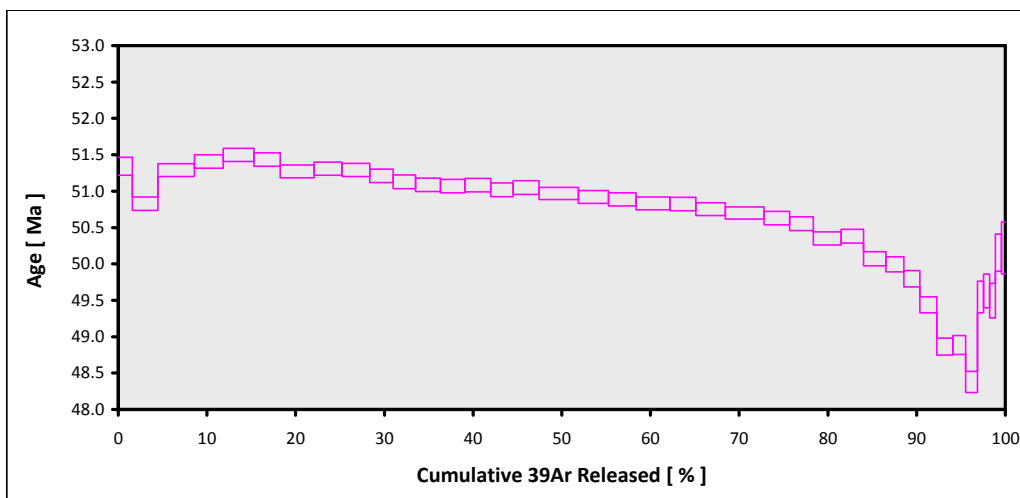
Results	40(a)/36(a) ± 2σ	40(r)/39(k) ± 2σ	Age ± 2σ (Ma)	MSWD	39Ar(k) (% ,n)	K/Ca ± 2σ
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Age Plateau
 Cannot Calculate

Total Fusion Age	16.10246 ± 0.00521 ± 0.03%	50.77 ± 0.16 ± 0.32%	39	0.438 ± 0.000
		Full External Error ± 1.15		
		Analytical Error ± 0.02		

Normal Isochron
 Cannot Calculate

Inverse Isochron
 Cannot Calculate

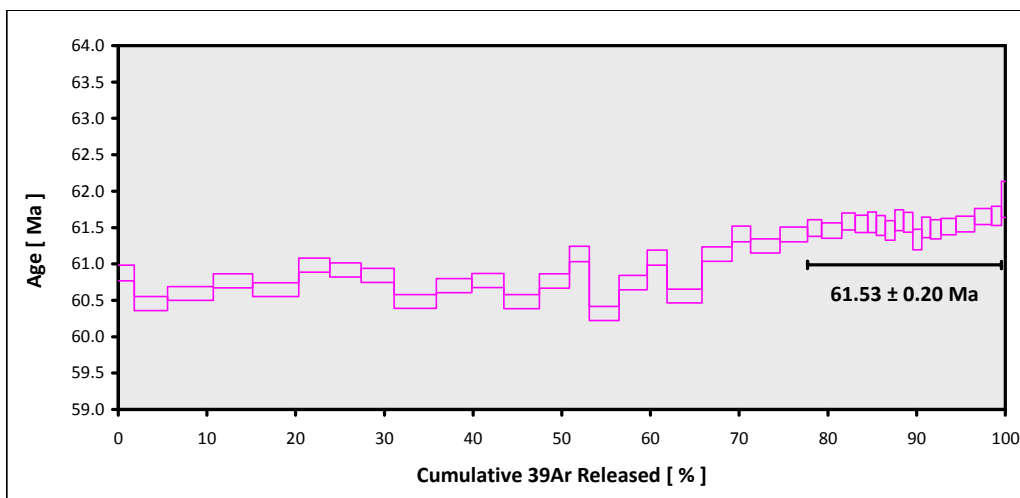


EXP#16D02996 > MV1203-D05-05 > Groundmass > MV1203 (13-INT-04)
WALVIS RIDGE > FEDALLAH GUYOT
15-OSU-07 (7A7-15) > Incremental Heating > Susan Schnur

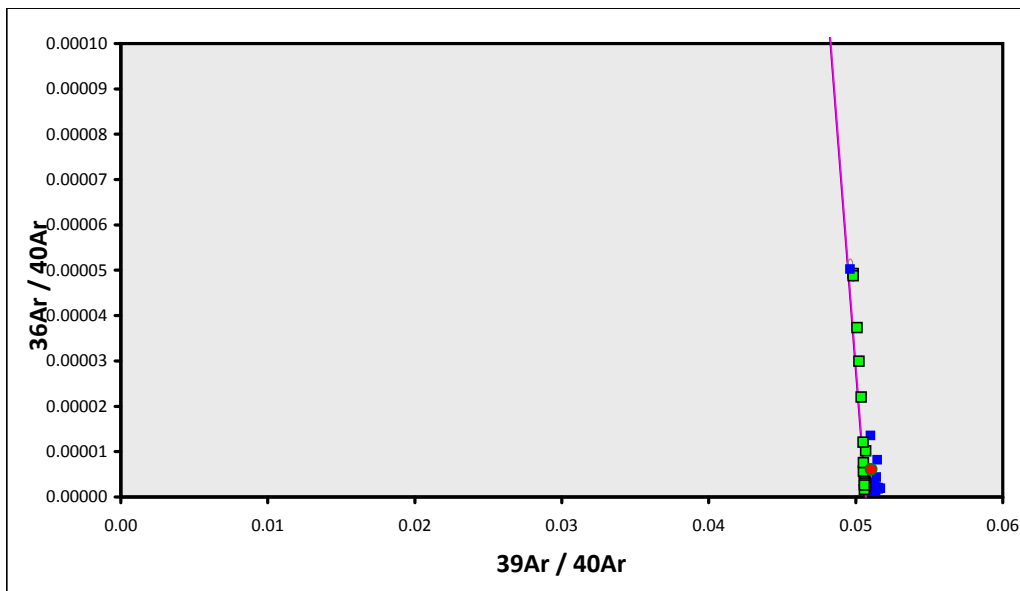
**Information on Analysis
 and Constants Used in Calculations**

Project = **MV1203 (13-INT-04)**
 Sample = **MV1203-D05-05**
 Material = **Groundmass**
 Location = **Fedallah Guyot**
 Region = **Walvis Ridge**
 Analyst = **Susan Schnur**
 Irradiation = **15-OSU-07 (7A7-15)**
 Position = **X: 0 | Y: 0 | Z/H: 13.5 mm**
 FCT-NM Age = **28.201 ± 0.023 Ma**
 FCT-NM Reference = **Kuiper et al (2008)**
 FCT-NM 40Ar/39Ar Ratio = **8.96245 ± 0.01425**
 FCT-NM J-value = **0.00175369 ± 0.00000279**
 Air Shot 40Ar/36Ar = **303.8280 ± 0.6228**
 Air Shot MDF = **0.99313858 ± 0.00076291 (LIN)**
 Experiment Type = **Incremental Heating**
 Extraction Method = **Bulk Laser Heating**
 Heating = **77 sec**
 Isolation = **3.00 min**
 Instrument = **ARGUS-VI-D**
 Preferred Age = **Plateau Age**
 Age Classification = **Eruption Age**
 IGSN = **IESRS0056**
 Rock Class = **Igneous>Volcanic>Mafic**
 Lithology = **Trachyte**
 Lat-Lon = **33°04.3'S - 0°06.7'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) = **0.0006756 ± 0.0000089**
 Production 38/37(ca) = **0.0000718 ± 0.0000092**
 Production 36/37(ca) = **0.0002663 ± 0.0000004**
 Production 40/39(k) = **0.003823 ± 0.000102**
 Production 38/39(k) = **0.012031 ± 0.000019**
 Production 36/38(cl) = **262.80 ± 1.71**
 Scaling Ratio K/Ca = **0.430**
 Abundance Ratio 40K/K = **1.1700 ± 0.0100 E-04**
 Atomic Weight K = **39.0983 ± 0.0001 g**

Results	40(a)/36(a) ± 2σ	40(r)/39(k) ± 2σ	Age ± 2σ (Ma)	MSWD	39Ar(k) (%n)	K/Ca ± 2σ
Age Plateau		19.73736 ± 0.01271 ± 0.06%	61.53 ± 0.20 ± 0.32%	1.59	21.86	11.9 ± 1.1
			Full External Error ± 1.39 Analytical Error ± 0.04	7%	16	1.73 2σ Confidence Limit 1.2594 Error Magnification
Total Fusion Age		19.54921 ± 0.00585 ± 0.03%	60.96 ± 0.19 ± 0.31%		39	13.7 ± 0.1
			Full External Error ± 1.38 Analytical Error ± 0.02			
Normal Isochron	303.00 ± 40.16	19.74451 ± 0.01891 ± 0.10%	61.55 ± 0.20 ± 0.33%	1.81	21.86	
Error Chron	± 13.25%		Full External Error ± 1.39 Analytical Error ± 0.06	3%	16	1.76 2σ Confidence Limit 1.3468 Error Magnification
Inverse Isochron	330.70 ± 33.35	19.72591 ± 0.01598 ± 0.08%	61.50 ± 0.20 ± 0.32%	1.30	21.86	
Clustered Points	± 10.08%		Full External Error ± 1.39 Analytical Error ± 0.05	20%	16	1.76 2σ Confidence Limit 1.1387 Error Magnification 2% Spreading Factor



Plateau is very bumpy, likely full of melt inclusions, minimal high-T plateau. 40/36 Good plateau.

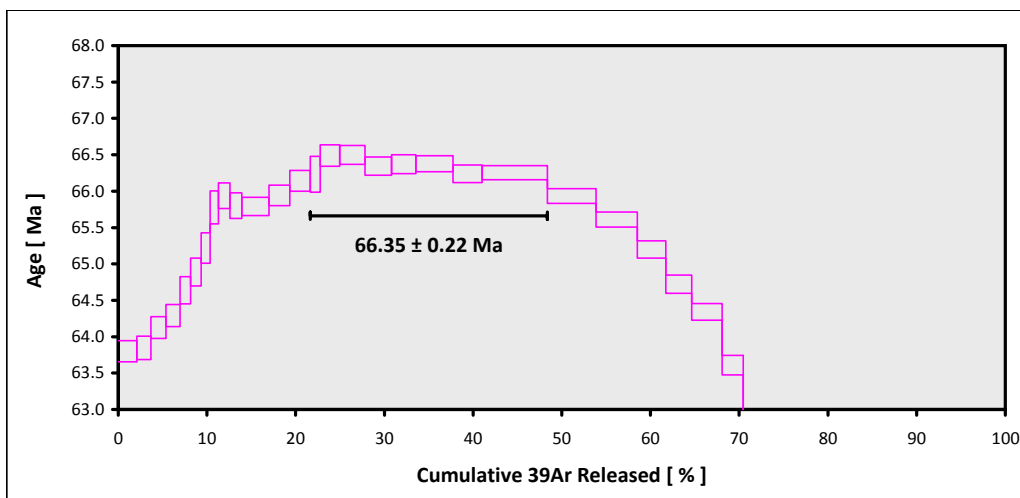


**EXP#16D05392 > MV1203-D08-05 > Groundmass > MV1203 (13-INT-04)
 WALVIS RIDGE > BELUGA SEAMOUNT
 15-OSU-07 (7A12-15) > Incremental Heating > Susan Schnur**

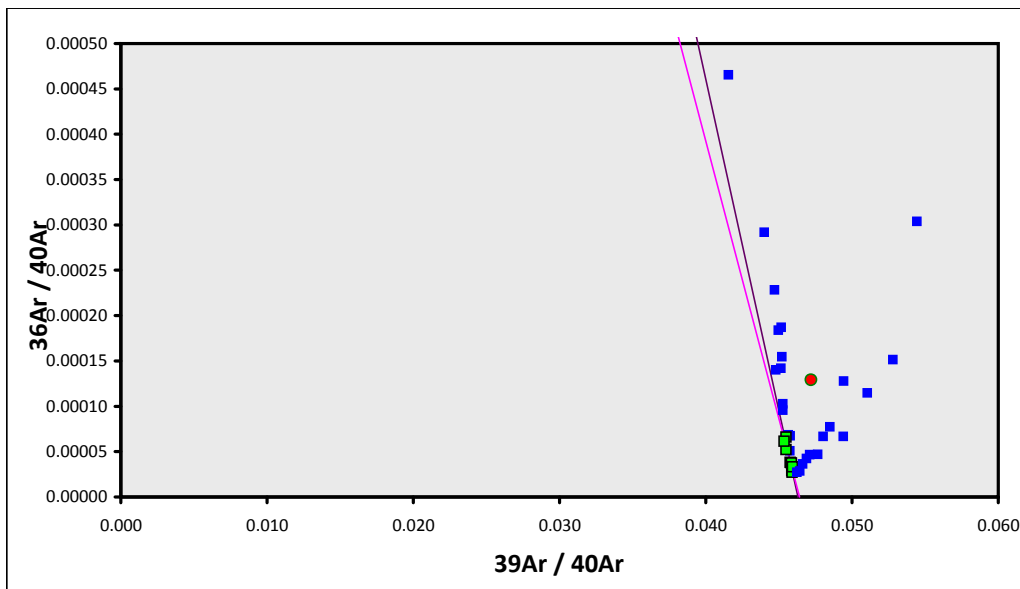
**Information on Analysis
 and Constants Used in Calculations**

Project = **MV1203 (13-INT-04)**
 Sample = **MV1203-D08-05**
 Material = **Groundmass**
 Location = **Beluga Seamount**
 Region = **Walvis Ridge**
 Analyst = **Susan Schnur**
 Irradiation = **15-OSU-07 (7A12-15)**
 Position = **X: 0 | Y: 0 | Z/H: 21.79 mm**
 FCT-NM Age = **28.201 ± 0.023 Ma**
 FCT-NM Reference = **Kuiper et al (2008)**
 FCT-NM 40Ar/39Ar Ratio = **9.08239 ± 0.01426**
 FCT-NM J-value = **0.00173053 ± 0.00000272**
 Air Shot 40Ar/36Ar = **304.4160 ± 0.4414**
 Air Shot MDF = **0.99266832 ± 0.00067512 (LIN)**
 Experiment Type = **Incremental Heating**
 Extraction Method = **Bulk Laser Heating**
 Heating = **77 sec**
 Isolation = **3.00 min**
 Instrument = **ARGUS-VI-D**
 Preferred Age = **Plateau Age**
 Age Classification = **Eruption Age**
 IGSN = **IESRS0057**
 Rock Class = **Igneous>Volcanic>Mafic**
 Lithology = **Trachybasalt**
 Lat-Lon = **31°52.8'S - 0°27.4'E**
 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) = **0.0006756 ± 0.0000089**
 Production 38/37(ca) = **0.0000718 ± 0.0000092**
 Production 36/37(ca) = **0.0002663 ± 0.0000004**
 Production 40/39(k) = **0.003823 ± 0.000102**
 Production 38/39(k) = **0.012031 ± 0.000019**
 Production 36/38(cl) = **262.80 ± 1.71**
 Scaling Ratio K/Ca = **0.430**
 Abundance Ratio 40K/K = **1.1700 ± 0.0100 E-04**
 Atomic Weight K = **39.0983 ± 0.0001 g**

Results	40(a)/36(a) ± 2σ	40(r)/39(k) ± 2σ	Age ± 2σ (Ma)	MSWD	39Ar(k) (%n)	K/Ca ± 2σ
Age Plateau						
Error Mean		21.59528 ± 0.02338 ± 0.11%	66.35 ± 0.22 ± 0.33%	2.50	26.73	0.425 ± 0.030
			Full External Error ± 1.50	1%	8	
			Analytical Error ± 0.07	2.07	2σ Confidence Limit	
				1.5817	Error Magnification	
Total Fusion Age		20.37786 ± 0.00715 ± 0.04%	62.67 ± 0.19 ± 0.31%		37	0.370 ± 0.000
			Full External Error ± 1.42			
			Analytical Error ± 0.02			
Normal Isochron				2.57	26.73	
Error Chron	314.11 ± 89.75 ± 28.57%	21.58205 ± 0.08030 ± 0.37%	66.31 ± 0.32 ± 0.48%	2%	8	
			Full External Error ± 1.52	2.15	2σ Confidence Limit	
			Analytical Error ± 0.24	1.6034	Error Magnification	
Inverse Isochron				2.24	26.73	
Error Chron	352.01 ± 80.91 ± 22.98%	21.54702 ± 0.07517 ± 0.35%	66.20 ± 0.31 ± 0.46%	4%	8	
			Full External Error ± 1.51	2.15	2σ Confidence Limit	
			Analytical Error ± 0.23	1.4969	Error Magnification	
				1%	Spreading Factor	



Excess argon signature, tiny plateau at low-T and and another slightly higher. Broader plateau selected.

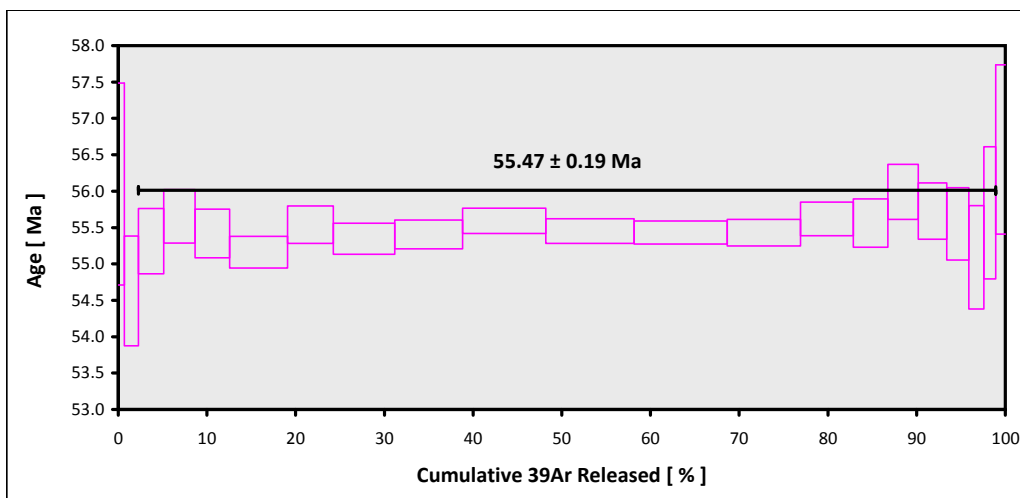


EXP#16D05449 > MV1203-D04-06 > Plagioclase > MV1203 (13-INT-04)
WALVIS RIDGE > QUEEQUEG GUYOT
15-OSU-07 (7A4-15) > Incremental Heating > Susan Schnur

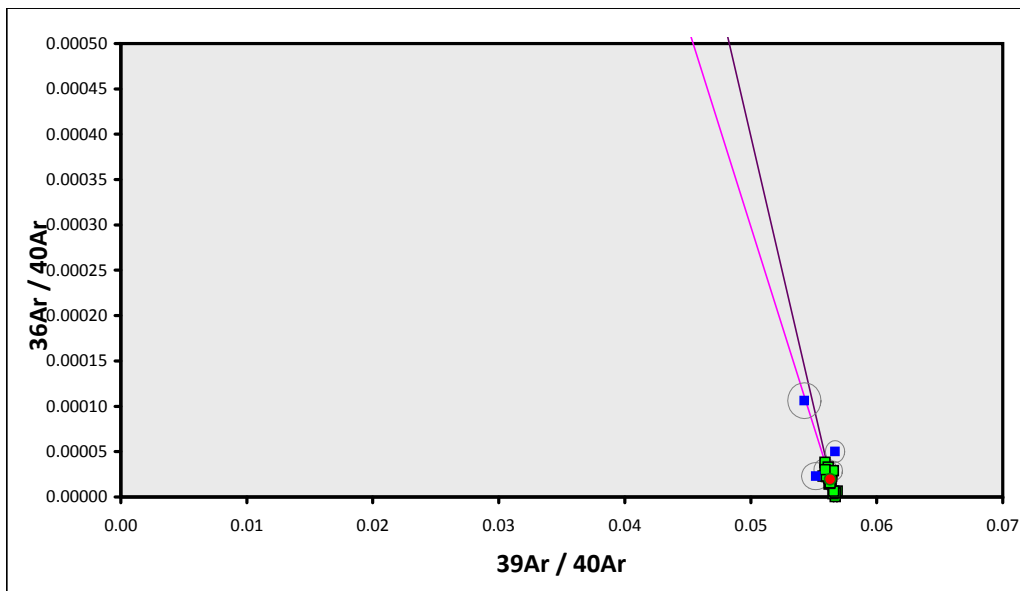
**Information on Analysis
 and Constants Used in Calculations**

Project = **MV1203 (13-INT-04)**
 Sample = **MV1203-D04-06**
 Material = **Plagioclase**
 Location = **Queequeg Guyot**
 Region = **Walvis Ridge**
 Analyst = **Susan Schnur**
 Irradiation = **15-OSU-07 (7A4-15)**
 Position = **X: 0 | Y: 0 | Z/H: 8.37 mm**
 FCT-NM Age = **28.201 ± 0.023 Ma**
 FCT-NM Reference = **Kuiper et al (2008)**
 FCT-NM 40Ar/39Ar Ratio = **8.90545 ± 0.01425**
 FCT-NM J-value = **0.00176492 ± 0.00000282**
 Air Shot 40Ar/36Ar = **304.3990 ± 0.4109**
 Air Shot MDF = **0.99268189 ± 0.00066280 (LIN)**
 Experiment Type = **Incremental Heating**
 Extraction Method = **Bulk Laser Heating**
 Heating = **77 sec**
 Isolation = **3.00 min**
 Instrument = **ARGUS-VI-D**
 Preferred Age = **Plateau Age**
 Age Classification = **Undefined**
 IGSN = **IESRS0058**
 Rock Class = **Igneous>Volcanic>Mafic**
 Lithology = **Trachybasalt**
 Lat-Lon = **33°29.1'S - 0°32.1'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) = **0.0006756 ± 0.0000089**
 Production 38/37(ca) = **0.0000718 ± 0.0000092**
 Production 36/37(ca) = **0.0002663 ± 0.0000004**
 Production 40/39(k) = **0.003823 ± 0.000102**
 Production 38/39(k) = **0.012031 ± 0.000019**
 Production 36/38(cl) = **262.80 ± 1.71**
 Scaling Ratio K/Ca = **0.430**
 Abundance Ratio 40K/K = **1.1700 ± 0.0100 E-04**
 Atomic Weight K = **39.0983 ± 0.0001 g**

Results	40(a)/36(a) ± 2σ	40(r)/39(k) ± 2σ	Age ± 2σ (Ma)	MSWD	39Ar(k) (% _n)	K/Ca ± 2σ
Age Plateau		17.64964 ± 0.02383 ± 0.13%	55.47 ± 0.19 ± 0.34%	1.58	96.66	0.0150 ± 0.0003
			Full External Error ± 1.26	6%	18	
			Analytical Error ± 0.07	1.69	2σ Confidence Limit	
				1.2586	Error Magnification	
Total Fusion Age		17.65370 ± 0.02016 ± 0.11%	55.48 ± 0.19 ± 0.33%		21	0.0150 ± 0.0000
			Full External Error ± 1.26			
			Analytical Error ± 0.06			
Normal Isochron	346.86 ± 102.79 ± 29.64%	17.63255 ± 0.04076 ± 0.23%	55.42 ± 0.22 ± 0.39%	1.21	96.66	
			Full External Error ± 1.26	25%	18	
			Analytical Error ± 0.13	1.71	2σ Confidence Limit	
				1.0993	Error Magnification	
Inverse Isochron	399.60 ± 103.48 ± 25.90%	17.61630 ± 0.04398 ± 0.25%	55.37 ± 0.22 ± 0.40%	1.38	96.66	
Clustered Points			Full External Error ± 1.26	14%	18	
			Analytical Error ± 0.14	1.71	2σ Confidence Limit	
				1.1740	Error Magnification	
				2%	Spreading Factor	



Good plateau

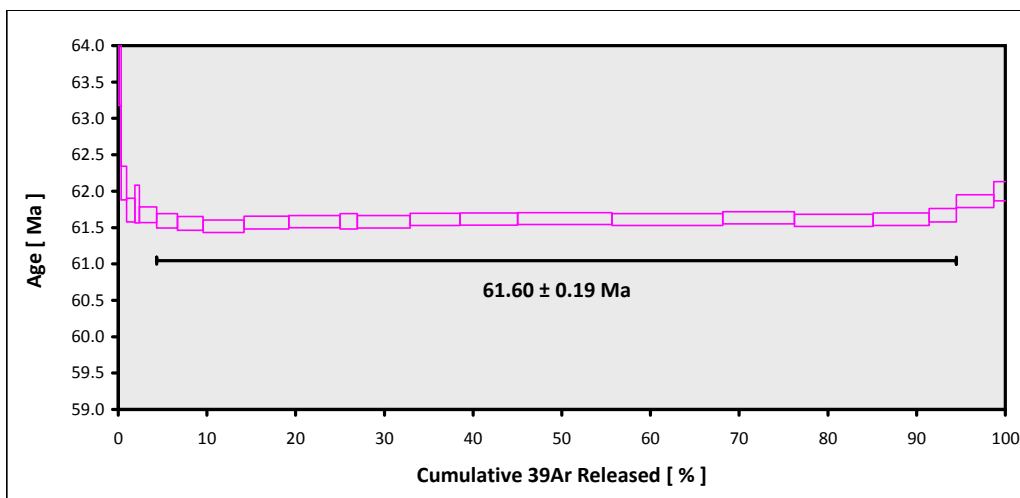


EXP#16D05484 > MV1203-D05-05 > K-Feldspar > MV1203 (13-INT-04)
WALVIS RIDGE > FEDALLAH GUYOT
15-OSU-07 (7A8-15) > Incremental Heating > Susan Schnur

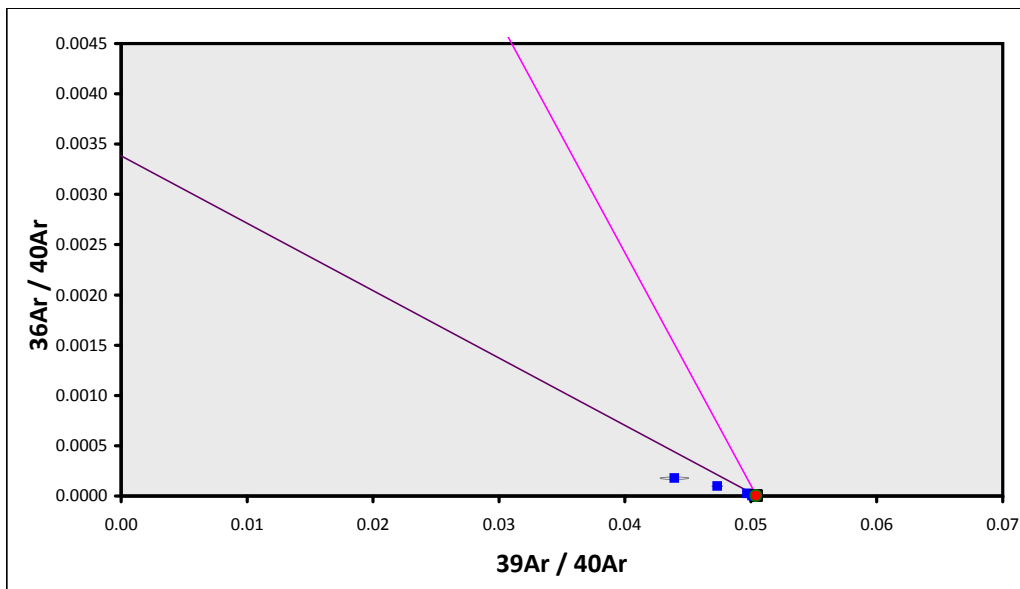
**Information on Analysis
 and Constants Used in Calculations**

Project = **MV1203 (13-INT-04)**
 Sample = **MV1203-D05-05**
 Material = **K-Feldspar**
 Location = **Fedallah Guyot**
 Region = **Walvis Ridge**
 Analyst = **Susan Schnur**
 Irradiation = **15-OSU-07 (7A8-15)**
 Position = **X: 0 | Y: 0 | Z/H: 15.31 mm**
 FCT-NM Age = **28.201 ± 0.023 Ma**
 FCT-NM Reference = **Kuiper et al (2008)**
 FCT-NM 40Ar/39Ar Ratio = **8.98571 ± 0.01420**
 FCT-NM J-value = **0.00174915 ± 0.00000276**
 Air Shot 40Ar/36Ar = **304.4080 ± 0.4110**
 Air Shot MDF = **0.99267471 ± 0.00066278 (LIN)**
 Experiment Type = **Incremental Heating**
 Extraction Method = **Bulk Laser Heating**
 Heating = **77 sec**
 Isolation = **1.50 min**
 Instrument = **ARGUS-VI-D**
 Preferred Age = **Plateau Age**
 Age Classification = **Eruption Age**
 IGSN = **IESRS0059**
 Rock Class = **Igneous>Volcanic>Mafic**
 Lithology = **Trachyte**
 Lat-Lon = **33°04.3'S - 0°06.7'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) = **0.0006756 ± 0.0000089**
 Production 38/37(ca) = **0.0000718 ± 0.0000092**
 Production 36/37(ca) = **0.0002663 ± 0.0000004**
 Production 40/39(k) = **0.003823 ± 0.000102**
 Production 38/39(k) = **0.012031 ± 0.000019**
 Production 36/38(cl) = **262.80 ± 1.71**
 Scaling Ratio K/Ca = **0.430**
 Abundance Ratio 40K/K = **1.1700 ± 0.0100 E-04**
 Atomic Weight K = **39.0983 ± 0.0001 g**

Results	40(a)/36(a) ± 2σ	40(r)/39(k) ± 2σ	Age ± 2σ (Ma)	MSWD	39Ar(k) (%n)	K/Ca ± 2σ
Age Plateau		19.80995 ± 0.00737 ± 0.04%	61.60 ± 0.19 ± 0.31%	0.64 83%	90.12 15	16.4 ± 0.3
			Full External Error ± 1.39 Analytical Error ± 0.02	1.76 1.0000	2σ Confidence Limit Error Magnification	
Total Fusion Age		19.82180 ± 0.00733 ± 0.04%	61.63 ± 0.19 ± 0.31%		23	16.3 ± 0.2
			Full External Error ± 1.39 Analytical Error ± 0.02			
Normal Isochron	235.20 ± 398.14 #####	19.83838 ± 0.02094 ± 0.11%	61.69 ± 0.20 ± 0.33%	0.83 63%	90.12 15	
			Full External Error ± 1.40 Analytical Error ± 0.06	1.78 1.0000	2σ Confidence Limit Error Magnification	
Inverse Isochron		19.82029 ± 0.02091 ± 0.11%	61.63 ± 0.20 ± 0.33%	0.61 85%	90.12 15	
Clustered Points	85.67 ± 60.15 ± 70.21%		Full External Error ± 1.39 Analytical Error ± 0.06	1.78 1.0000	2σ Confidence Limit Error Magnification	0% Spreading Factor



Good plateau

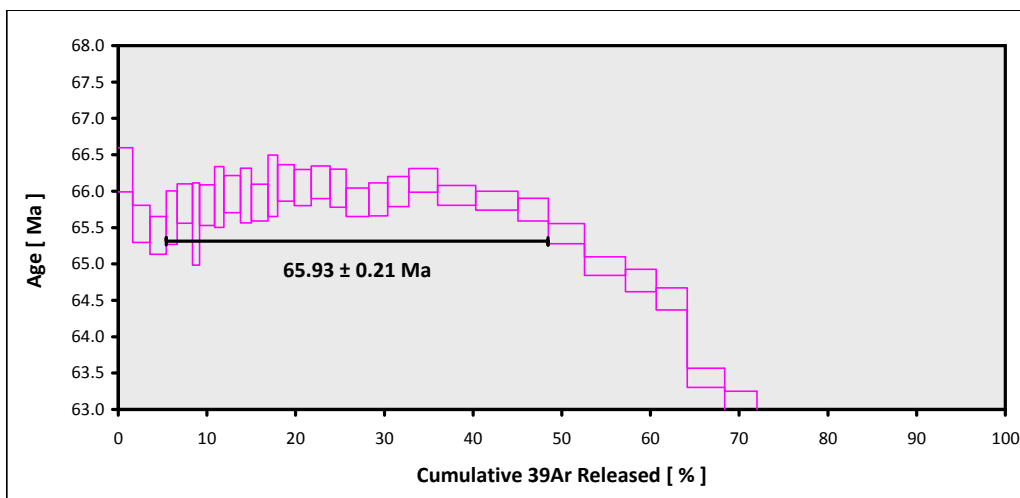


**EXP#16D05556 > MV1203-D08-12 > Groundmass > MV1203 (13-INT-04)
 WALVIS RIDGE > BELUGA SEAMOUNT
 15-OSU-07 (7A14-15) > Incremental Heating > Susan Schnur**

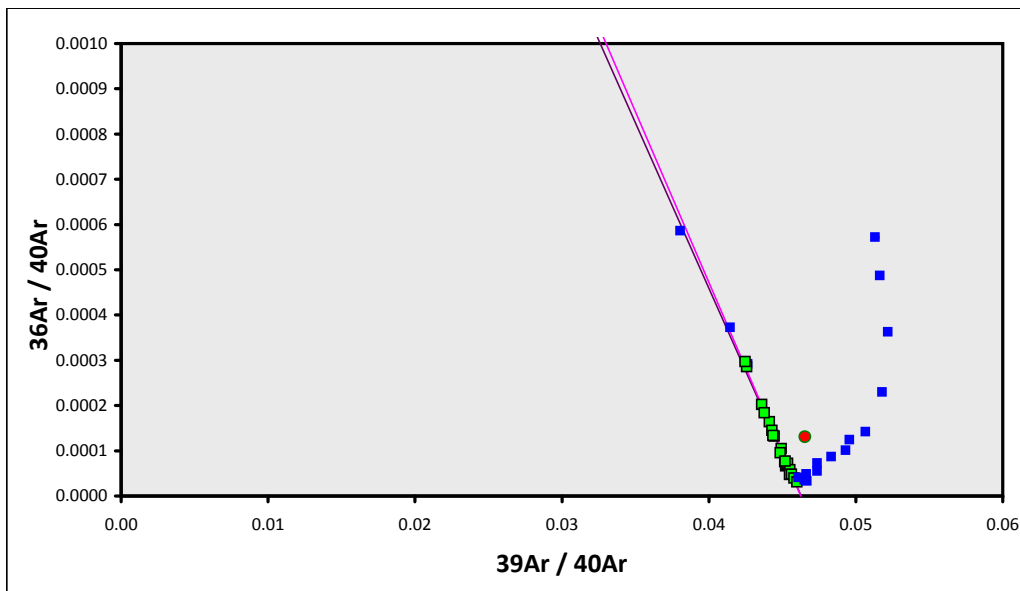
**Information on Analysis
 and Constants Used in Calculations**

Project = **MV1203 (13-INT-04)**
 Sample = **MV1203-D08-12**
 Material = **Groundmass**
 Location = **Beluga Seamount**
 Region = **Walvis Ridge**
 Analyst = **Susan Schnur**
 Irradiation = **15-OSU-07 (7A14-15)**
 Position = **X: 0 | Y: 0 | Z/H: 25.34 mm**
 FCT-NM Age = **28.201 ± 0.023 Ma**
 FCT-NM Reference = **Kuiper et al (2008)**
 FCT-NM 40Ar/39Ar Ratio = **9.14426 ± 0.01427**
 FCT-NM J-value = **0.00171883 ± 0.00000268**
 Air Shot 40Ar/36Ar = **304.4110 ± 0.4140**
 Air Shot MDF = **0.99267231 ± 0.00066398 (LIN)**
 Experiment Type = **Incremental Heating**
 Extraction Method = **Bulk Laser Heating**
 Heating = **77 sec**
 Isolation = **3.00 min**
 Instrument = **ARGUS-VI-D**
 Preferred Age = **Plateau Age**
 Age Classification = **Eruption Age**
 IGSN = **IESRS0060**
 Rock Class = **Igneous>Volcanic>Mafic**
 Lithology = **Basalt**
 Lat-Lon = **31°52.8'S - 0°27.4'E**
 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) = **0.0006756 ± 0.0000089**
 Production 38/37(ca) = **0.0000718 ± 0.0000092**
 Production 36/37(ca) = **0.0002663 ± 0.0000004**
 Production 40/39(k) = **0.003823 ± 0.000102**
 Production 38/39(k) = **0.012031 ± 0.000019**
 Production 36/38(cl) = **262.80 ± 1.71**
 Scaling Ratio K/Ca = **0.430**
 Abundance Ratio 40K/K = **1.1700 ± 0.0100 E-04**
 Atomic Weight K = **39.0983 ± 0.0001 g**

Results	40(a)/36(a) ± 2σ	40(r)/39(k) ± 2σ	Age ± 2σ (Ma)	MSWD	39Ar(k) (%n)	K/Ca ± 2σ
Age Plateau		21.60319 ± 0.02006 ± 0.09%	65.93 ± 0.21 ± 0.32%	1.50	43.08	0.478 ± 0.022
			Full External Error ± 1.49	7%	20	
			Analytical Error ± 0.06	1.65	2σ Confidence Limit	
				1.2242	Error Magnification	
Total Fusion Age		20.65018 ± 0.01011 ± 0.05%	63.07 ± 0.20 ± 0.31%		37	0.380 ± 0.000
			Full External Error ± 1.42			
			Analytical Error ± 0.03			
Normal Isochron	298.24 ± 17.06	21.58764 ± 0.03683 ± 0.17%	65.88 ± 0.23 ± 0.35%	1.75	43.08	
Error Chron	± 5.72%		Full External Error ± 1.49	3%	20	
			Analytical Error ± 0.11	1.67	2σ Confidence Limit	
				1.3223	Error Magnification	
Inverse Isochron	286.51 ± 15.58	21.61911 ± 0.03383 ± 0.16%	65.98 ± 0.23 ± 0.34%	1.47	43.08	
	± 5.44%		Full External Error ± 1.49	9%	20	
			Analytical Error ± 0.10	1.67	2σ Confidence Limit	
				1.2144	Error Magnification	
				8%	Spreading Factor	



Low-T plateau is reasonable, slight recoil or excess argon, but 40/36 is reasonable.



EXP#16D05612 > MV1203-D05-06 > Groundmass > MV1203 (13-INT-04)
WALVIS RIDGE > FEDALLAH GUYOT
15-OSU-07 (7A10-15) > Incremental Heating > Susan Schnur

**Information on Analysis
 and Constants Used in Calculations**

Project = **MV1203 (13-INT-04)**
 Sample = **MV1203-D05-06**
 Material = **Groundmass**
 Location = **Fedallah Guyot**
 Region = **Walvis Ridge**
 Analyst = **Susan Schnur**
 Irradiation = **15-OSU-07 (7A10-15)**
 Position = **X: 0 | Y: 0 | Z/H: 18.05 mm**
 FCT-NM Age = **28.201 ± 0.023 Ma**
 FCT-NM Reference = **Kuiper et al (2008)**
 FCT-NM 40Ar/39Ar Ratio = **9.02403 ± 0.01426**
 FCT-NM J-value = **0.00174173 ± 0.00000275**
 Air Shot 40Ar/36Ar = **304.4380 ± 0.4140**
 Air Shot MDF = **0.99265076 ± 0.00066392 (LIN)**
 Experiment Type = **Incremental Heating**
 Extraction Method = **Bulk Laser Heating**
 Heating = **77 sec**
 Isolation = **3.00 min**
 Instrument = **ARGUS-VI-D**
 Preferred Age = **Undefined**
 Age Classification = **Undefined**
 IGSN = **IESRS0061**
 Rock Class = **Igneous>Volcanic>Mafic**
 Lithology = **Trachyte**
 Lat-Lon = **33°04.3'S - 0°06.7'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) = **0.0006756 ± 0.0000089**
 Production 38/37(ca) = **0.0000718 ± 0.0000092**
 Production 36/37(ca) = **0.0002663 ± 0.0000004**
 Production 40/39(k) = **0.003823 ± 0.000102**
 Production 38/39(k) = **0.012031 ± 0.000019**
 Production 36/38(cl) = **262.80 ± 1.71**
 Scaling Ratio K/Ca = **0.430**
 Abundance Ratio 40K/K = **1.1700 ± 0.0100 E-04**
 Atomic Weight K = **39.0983 ± 0.0001 g**

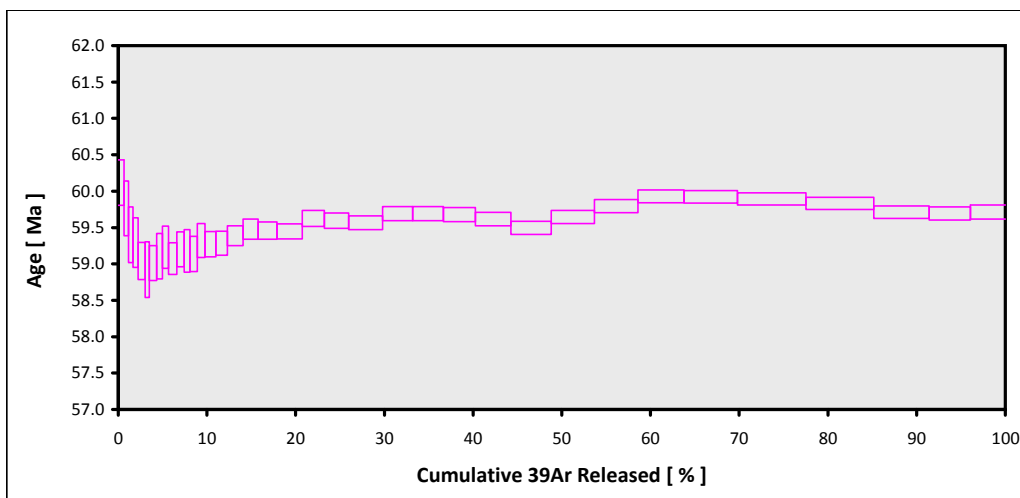
Results	40(a)/36(a) ± 2σ	40(r)/39(k) ± 2σ	Age ± 2σ (Ma)	MSWD	39Ar(k) (%),n	K/Ca ± 2σ
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Age Plateau
 Cannot Calculate

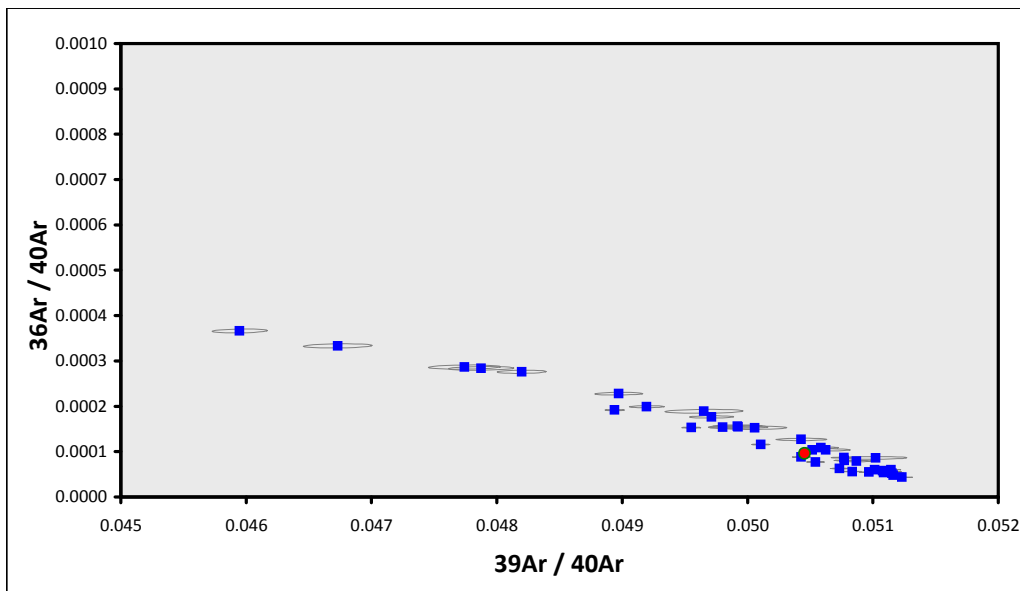
Total Fusion Age	19.25579 ± 0.00665 ± 0.03%	59.65 ± 0.19 ± 0.31%	37	15.9 ± 0.1		
		Full External Error ± 1.35				
		Analytical Error ± 0.02				

Normal Isochron
 Cannot Calculate

Inverse Isochron
 Cannot Calculate



Bumpy but potential high-T plateau, high error on 40/36.

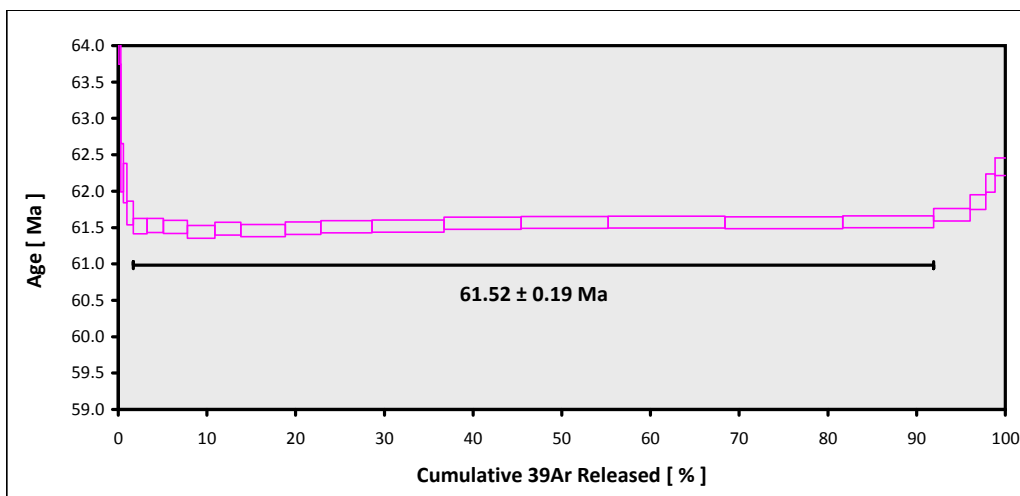


**EXP#16D05668 > MV1203-D05-06 > K-Feldspar > MV1203 (13-INT-04)
 WALVIS RIDGE > FEDALLAH GUYOT
 15-OSU-07 (7A11-15) > Incremental Heating > Susan Schnur**

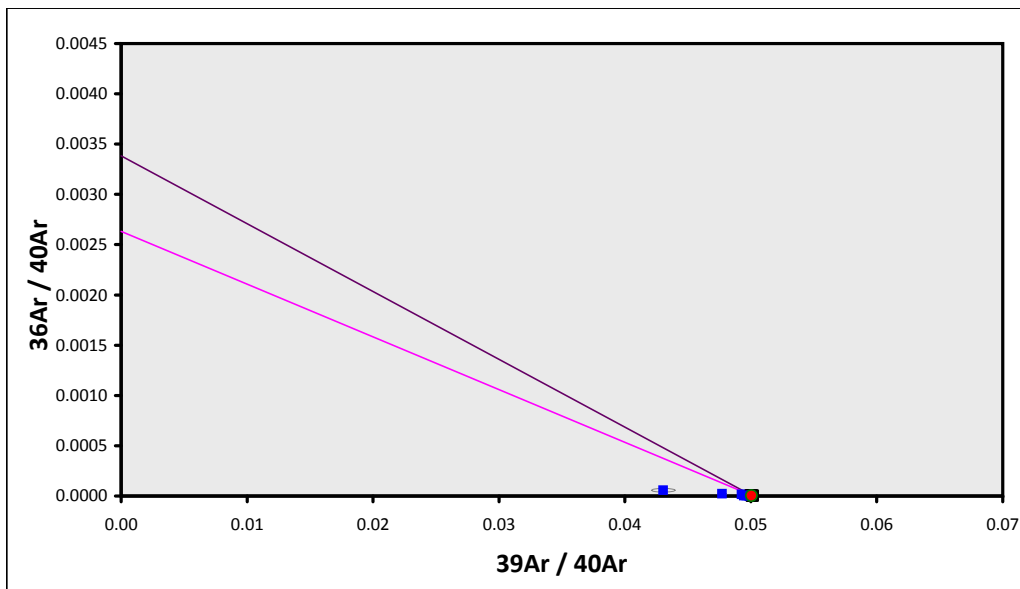
**Information on Analysis
 and Constants Used in Calculations**

Project = **MV1203 (13-INT-04)**
 Sample = **MV1203-D05-06**
 Material = **K-Feldspar**
 Location = **Fedallah Guyot**
 Region = **Walvis Ridge**
 Analyst = **Susan Schnur**
 Irradiation = **15-OSU-07 (7A11-15)**
 Position = **X: 0 | Y: 0 | Z/H: 20 mm**
 FCT-NM Age = **28.201 ± 0.023 Ma**
 FCT-NM Reference = **Kuiper et al (2008)**
 FCT-NM 40Ar/39Ar Ratio = **9.05358 ± 0.01421**
 FCT-NM J-value = **0.00173604 ± 0.00000273**
 Air Shot 40Ar/36Ar = **304.4550 ± 0.4141**
 Air Shot MDF = **0.99263719 ± 0.00066389 (LIN)**
 Experiment Type = **Incremental Heating**
 Extraction Method = **Bulk Laser Heating**
 Heating = **77 sec**
 Isolation = **1.50 min**
 Instrument = **ARGUS-VI-D**
 Preferred Age = **Plateau Age**
 Age Classification = **Eruption Age**
 IGSN = **IESRS0062**
 Rock Class = **Igneous>Volcanic>Mafic**
 Lithology = **Trachyte**
 Lat-Lon = **33°04.3'S - 0°06.7'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) = **0.0006756 ± 0.0000089**
 Production 38/37(ca) = **0.0000718 ± 0.0000092**
 Production 36/37(ca) = **0.0002663 ± 0.0000004**
 Production 40/39(k) = **0.003823 ± 0.000102**
 Production 38/39(k) = **0.012031 ± 0.000019**
 Production 36/38(cl) = **262.80 ± 1.71**
 Scaling Ratio K/Ca = **0.430**
 Abundance Ratio 40K/K = **1.1700 ± 0.0100 E-04**
 Atomic Weight K = **39.0983 ± 0.0001 g**

Results	40(a)/36(a) ± 2σ	40(r)/39(k) ± 2σ	Age ± 2σ (Ma)	MSWD	39Ar(k) (%n)	K/Ca ± 2σ
Age Plateau		19.93522 ± 0.00783 ± 0.04%	61.52 ± 0.19 ± 0.31%	1.06	90.24	18.6 ± 0.4
			Full External Error ± 1.39	39%	14	
			Analytical Error ± 0.02	1.78	2σ Confidence Limit	
				1.0305	Error Magnification	
Total Fusion Age		19.95527 ± 0.00786 ± 0.04%	61.59 ± 0.19 ± 0.31%		23	18.5 ± 0.2
			Full External Error ± 1.39			
			Analytical Error ± 0.02			
Normal Isochron	359.48 ± 199.60 ± 55.52%	19.93001 ± 0.01887 ± 0.09%	61.51 ± 0.20 ± 0.32%	1.09	90.24	
			Full External Error ± 1.39	36%	14	
			Analytical Error ± 0.06	1.82	2σ Confidence Limit	
				1.0461	Error Magnification	
Inverse Isochron	380.16 ± 148.06 ± 38.95%	19.92802 ± 0.01881 ± 0.09%	61.50 ± 0.20 ± 0.32%	1.08	90.24	
Clustered Points			Full External Error ± 1.39	37%	14	
			Analytical Error ± 0.06	1.82	2σ Confidence Limit	
				1.0416	Error Magnification	
				0%	Spreading Factor	



Good plateau



**EXP#16D05737 > MV1203-D04-28 > Plagioclase > MV1203 (13-INT-04)
 WALVIS RIDGE > QUEEQUEG GUYOT
 15-OSU-07 (7A6-15) > Incremental Heating > Susan Schnur**

**Information on Analysis
 and Constants Used in Calculations**

Project = **MV1203 (13-INT-04)**
 Sample = **MV1203-D04-28**
 Material = **Plagioclase**
 Location = **Queequeg Guyot**
 Region = **Walvis Ridge**
 Analyst = **Susan Schnur**
 Irradiation = **15-OSU-07 (7A6-15)**
 Position = **X: 0 | Y: 0 | Z/H: 11.44 mm**
 FCT-NM Age = **28.201 ± 0.023 Ma**
 FCT-NM Reference = **Kuiper et al (2008)**
 FCT-NM 40Ar/39Ar Ratio = **8.93798 ± 0.01421**
 FCT-NM J-value = **0.00175849 ± 0.00000280**
 Air Shot 40Ar/36Ar = **304.4320 ± 0.4140**
 Air Shot MDF = **0.99265555 ± 0.00066394 (LIN)**
 Experiment Type = **Incremental Heating**
 Extraction Method = **Bulk Laser Heating**
 Heating = **77 sec**
 Isolation = **3.00 min**
 Instrument = **ARGUS-VI-D**
 Preferred Age = **Undefined**
 Age Classification = **Undefined**
 IGSN = **IESRS0063**
 Rock Class = **Igneous>Volcanic>Mafic**
 Lithology = **Trachybasalt**
 Lat-Lon = **33°29.1'S - 0°32.1'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) = **0.0006756 ± 0.0000089**
 Production 38/37(ca) = **0.0000718 ± 0.0000092**
 Production 36/37(ca) = **0.0002663 ± 0.0000004**
 Production 40/39(k) = **0.003823 ± 0.000102**
 Production 38/39(k) = **0.012031 ± 0.000019**
 Production 36/38(cl) = **262.80 ± 1.71**
 Scaling Ratio K/Ca = **0.430**
 Abundance Ratio 40K/K = **1.1700 ± 0.0100 E-04**
 Atomic Weight K = **39.0983 ± 0.0001 g**

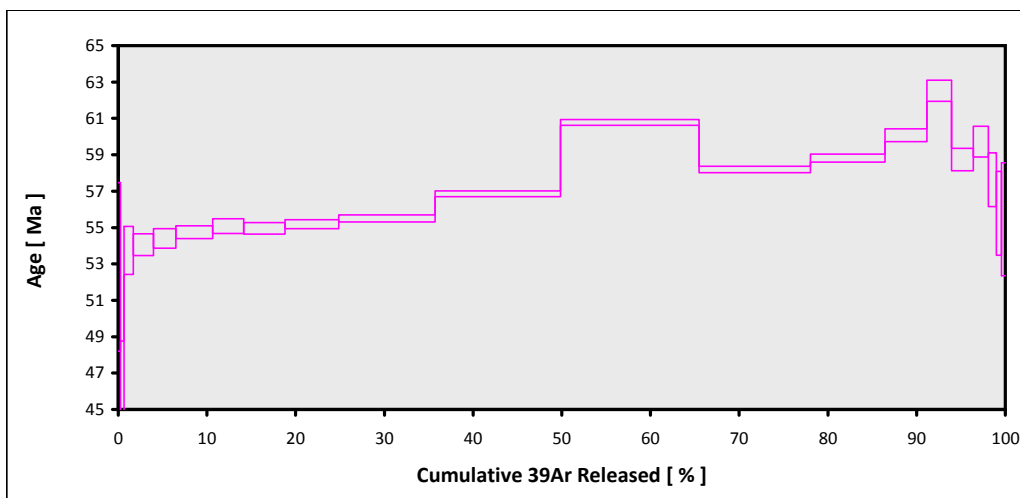
Results	40(a)/36(a) ± 2σ	40(r)/39(k) ± 2σ	Age ± 2σ (Ma)	MSWD	39Ar(k) (% _n)	K/Ca ± 2σ
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Age Plateau
 Cannot Calculate

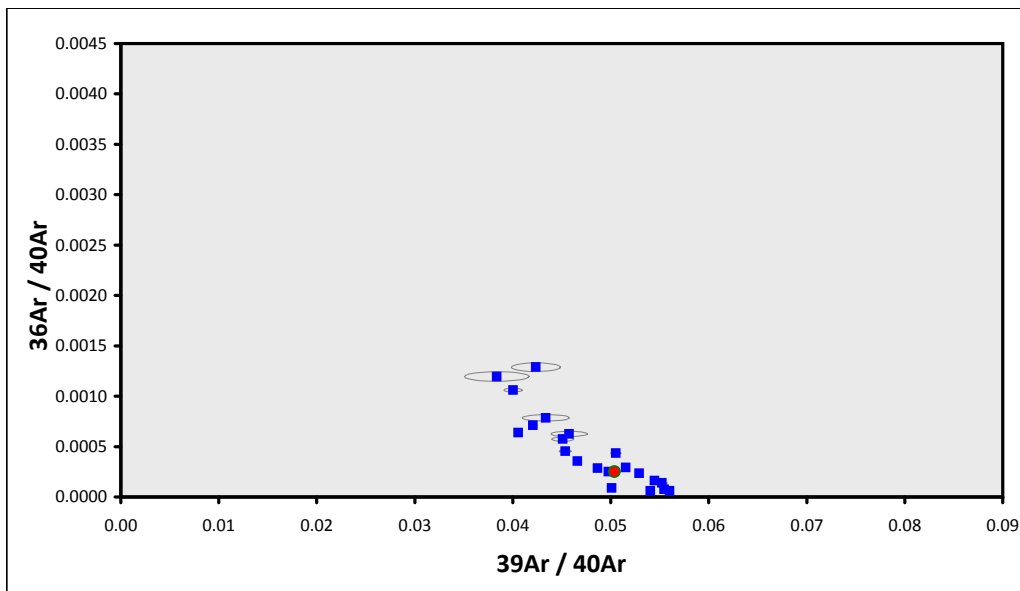
Total Fusion Age	18.37439 ± 0.02449 ± 0.13%	57.50 ± 0.20 ± 0.34%	21	0.0120 ± 0.0000
		Full External Error ± 1.30		
		Analytical Error ± 0.08		

Normal Isochron
 Cannot Calculate

Inverse Isochron
 Cannot Calculate



Very bump, high-T steps are not useful, possible start of a low-T plateau.

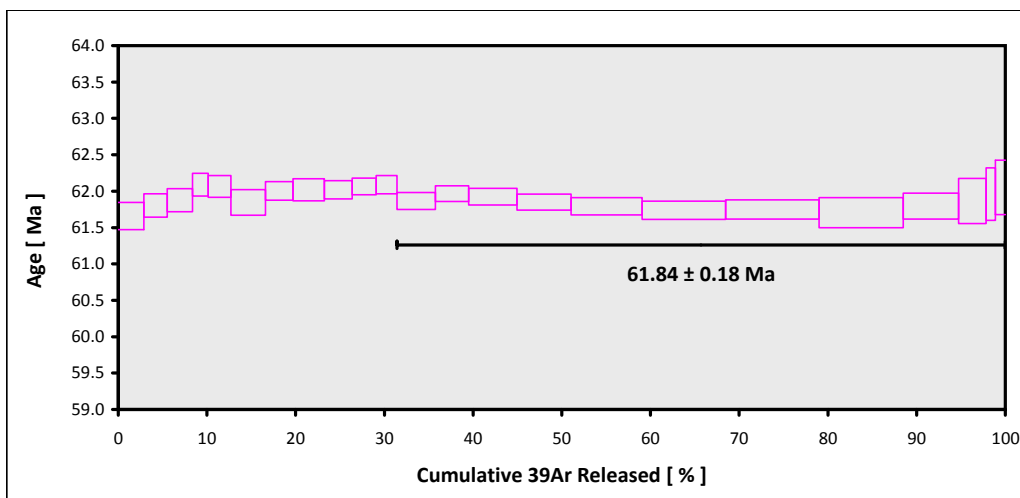


**EXP#16D06637 > MV1203-D16-11 > K-Feldspar > MV1203 (13-INT-04)
 WALVIS RIDGE > BULKINGTON WEST
 15-OSU-07 (7A30-15) > Incremental Heating > Susan Schnur**

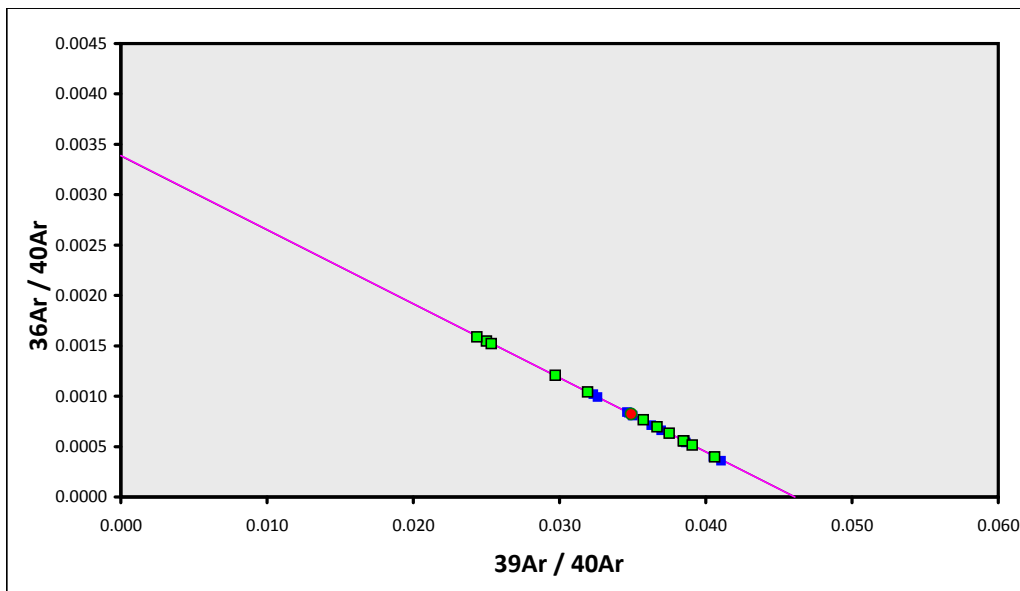
**Information on Analysis
 and Constants Used in Calculations**

Project = **MV1203 (13-INT-04)**
 Sample = **MV1203-D16-11**
 Material = **K-Feldspar**
 Location = **Bulkington West**
 Region = **Walvis Ridge**
 Analyst = **Susan Schnur**
 Irradiation = **15-OSU-07 (7A30-15)**
 Position = **X: 0 | Y: 0 | Z/H: 51.69 mm**
 FCT-NM Age = **28.201 ± 0.023 Ma**
 FCT-NM Reference = **Kuiper et al (2008)**
 FCT-NM 40Ar/39Ar Ratio = **9.80048 ± 0.01421**
 FCT-NM J-value = **0.00160374 ± 0.00000233**
 Air Shot 40Ar/36Ar = **304.5990 ± 0.4173**
 Air Shot MDF = **0.99252233 ± 0.00066478 (LIN)**
 Experiment Type = **Incremental Heating**
 Extraction Method = **Bulk Laser Heating**
 Heating = **77 sec**
 Isolation = **1.50 min**
 Instrument = **ARGUS-VI-D**
 Preferred Age = **Plateau Age**
 Age Classification = **Eruption Age**
 IGSN = **IESRS0064**
 Rock Class = **Igneous>Volcanic>Mafic**
 Lithology = **Trachyte**
 Lat-Lon = **31°31.3'S - 1°56.9'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) = **0.0006756 ± 0.0000089**
 Production 38/37(ca) = **0.0000718 ± 0.0000092**
 Production 36/37(ca) = **0.0002663 ± 0.0000004**
 Production 40/39(k) = **0.003823 ± 0.000102**
 Production 38/39(k) = **0.012031 ± 0.000019**
 Production 36/38(cl) = **262.80 ± 1.71**
 Scaling Ratio K/Ca = **0.430**
 Abundance Ratio 40K/K = **1.1700 ± 0.0100 E-04**
 Atomic Weight K = **39.0983 ± 0.0001 g**

Results	40(a)/36(a) ± 2σ	40(r)/39(k) ± 2σ	Age ± 2σ (Ma)	MSWD	39Ar(k) (%n)	K/Ca ± 2σ
Age Plateau		21.69403 ± 0.01811 ± 0.08%	61.84 ± 0.18 ± 0.30%	1.52 12%	68.58 12	4.62 ± 0.49
			Full External Error ± 1.40 Analytical Error ± 0.05	1.85 1.2334	2σ Confidence Limit Error Magnification	
Total Fusion Age		21.69633 ± 0.01332 ± 0.06%	61.85 ± 0.18 ± 0.29%		23	5.28 ± 0.03
			Full External Error ± 1.40 Analytical Error ± 0.04			
Normal Isochron	294.89 ± 1.62 ± 0.55%	21.70585 ± 0.03614 ± 0.17%	61.88 ± 0.20 ± 0.33%	1.61 10%	68.58 12	
			Full External Error ± 1.40 Analytical Error ± 0.10	1.89 1.2684	2σ Confidence Limit Error Magnification	
Inverse Isochron	294.98 ± 1.62 ± 0.55%	21.70399 ± 0.03608 ± 0.17%	61.87 ± 0.20 ± 0.33%	1.61 10%	68.58 12	
			Full External Error ± 1.40 Analytical Error ± 0.10	1.89 1.2681	2σ Confidence Limit Error Magnification	35% Spreading Factor



Low-T bumpy but high-T yields a slightly higher error plateau.

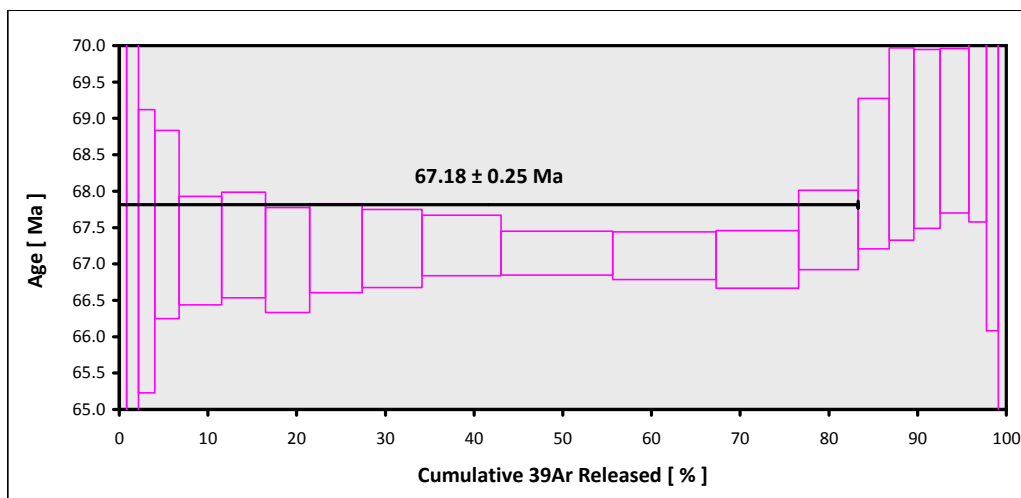


EXP#16D06675 > MV1203-D13-09 > Plagioclase > MV1203 (13-INT-04)
WALVIS RIDGE > DAGGOO GUYOT
15-OSU-07 (7A20-15) > Incremental Heating > Susan Schnur

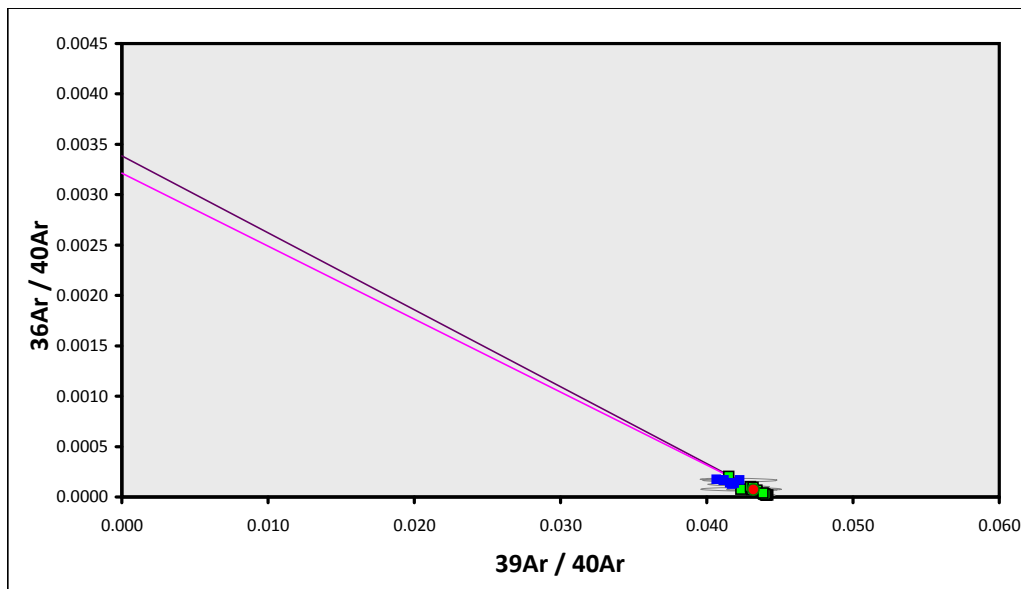
**Information on Analysis
 and Constants Used in Calculations**

Project = **MV1203 (13-INT-04)**
 Sample = **MV1203-D13-09**
 Material = **Plagioclase**
 Location = **Daggoo Guyot**
 Region = **Walvis Ridge**
 Analyst = **Susan Schnur**
 Irradiation = **15-OSU-07 (7A20-15)**
 Position = **X: 0 | Y: 0 | Z/H: 35.96 mm**
 FCT-NM Age = **28.201 ± 0.023 Ma**
 FCT-NM Reference = **Kuiper et al (2008)**
 FCT-NM 40Ar/39Ar Ratio = **9.36697 ± 0.01424**
 FCT-NM J-value = **0.00167796 ± 0.00000255**
 Air Shot 40Ar/36Ar = **304.6060 ± 0.4204**
 Air Shot MDF = **0.99251675 ± 0.00066599 (LIN)**
 Experiment Type = **Incremental Heating**
 Extraction Method = **Bulk Laser Heating**
 Heating = **77 sec**
 Isolation = **3.00 min**
 Instrument = **ARGUS-VI-D**
 Preferred Age = **Plateau Age**
 Age Classification = **Eruption Age**
 IGSN = **IESRS0065**
 Rock Class = **Igneous>Volcanic>Mafic**
 Lithology = **Basalt**
 Lat-Lon = **30°27.6'S - 0°10.2'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(ε,β*) = **0.580 ± 0.009 E-10 1/a**
 Decay 40K(β⁻) = **4.950 ± 0.043 E-10 1/a**
 Atmospheric 40/36(a) = **295.50**
 Atmospheric 38/36(a) = **0.1869**
 Production 39/37(ca) = **0.0006756 ± 0.0000089**
 Production 38/37(ca) = **0.0000718 ± 0.0000092**
 Production 36/37(ca) = **0.0002663 ± 0.0000004**
 Production 40/39(k) = **0.003823 ± 0.000102**
 Production 38/39(k) = **0.012031 ± 0.000019**
 Production 36/38(cl) = **262.80 ± 1.71**
 Scaling Ratio K/Ca = **0.430**
 Abundance Ratio 40K/K = **1.1700 ± 0.0100 E-04**
 Atomic Weight K = **39.0983 ± 0.0001 g**

Results	40(a)/36(a) ± 2σ	40(r)/39(k) ± 2σ	Age ± 2σ (Ma)	MSWD	39Ar(k) (% _n)	K/Ca ± 2σ
Age Plateau Overestimated		22.55765 ± 0.04896 ± 0.22%	67.18 ± 0.25 ± 0.37%	0.22 100%	83.31 14	0.0208 ± 0.0003
			Full External Error ± 1.52 Analytical Error ± 0.14	1.78 1.0000	2σ Confidence Limit Error Magnification	
Total Fusion Age		22.65065 ± 0.05675 ± 0.25%	67.45 ± 0.26 ± 0.39%		21	0.0205 ± 0.0001
			Full External Error ± 1.53 Analytical Error ± 0.17			
Normal Isochron Overestimated	318.75 ± 42.45 ± 13.32%	22.52141 ± 0.07083 ± 0.31%	67.08 ± 0.29 ± 0.43%	0.22 100%	83.31 14	
			Full External Error ± 1.53 Analytical Error ± 0.21	1.82 1.0000	2σ Confidence Limit Error Magnification	
Inverse Isochron Overestimated	311.22 ± 42.18 ± 13.55%	22.53905 ± 0.07058 ± 0.31%	67.13 ± 0.29 ± 0.43%	0.20 100%	83.31 14	
			Full External Error ± 1.53 Analytical Error ± 0.21	1.82 1.0000	2σ Confidence Limit 6% Spreading Factor	



Good plateau

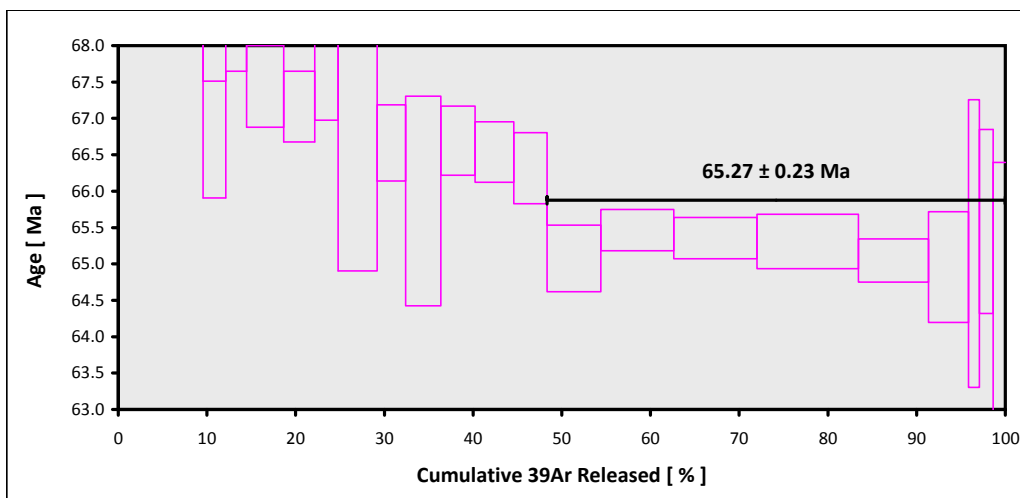


EXP#16D07164 > MV1203-D15-07 > K-Feldspar > MV1203 (13-INT-04)
WALVIS RIDGE > BULKINGTON EAST
15-OSU-07 (7A27-15) > Incremental Heating > Dan Miggins

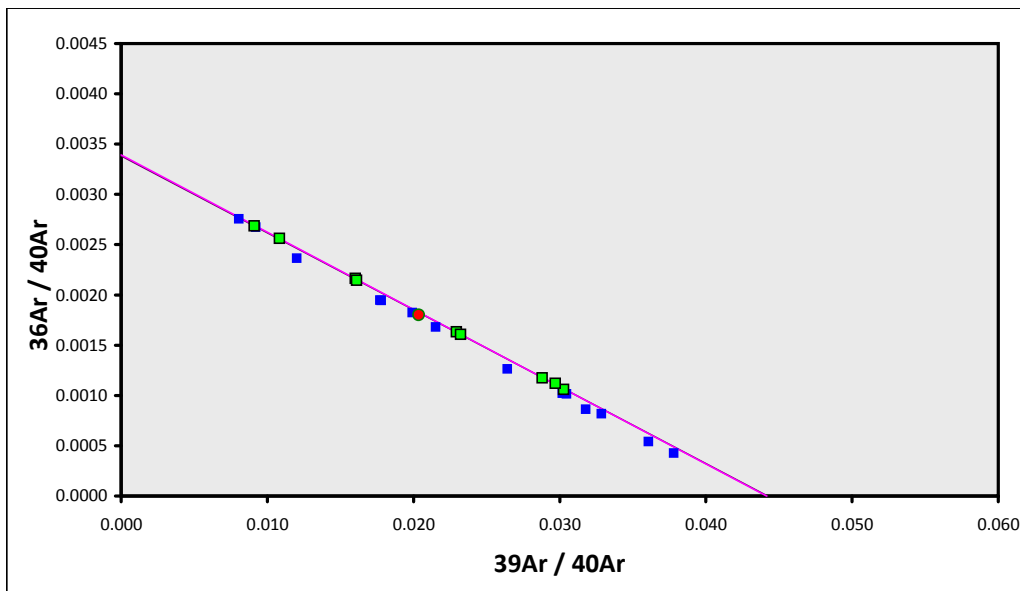
**Information on Analysis
 and Constants Used in Calculations**

Project = **MV1203 (13-INT-04)**
 Sample = **MV1203-D15-07**
 Material = **K-Feldspar**
 Location = **Bulkington East**
 Region = **Walvis Ridge**
 Analyst = **Dan Miggins**
 Irradiation = **15-OSU-07 (7A27-15)**
 Position = **X: 0 | Y: 0 | Z/H: 47.48 mm**
 FCT-NM Age = **28.201 ± 0.023 Ma**
 FCT-NM Reference = **Kuiper et al (2008)**
 FCT-NM 40Ar/39Ar Ratio = **9.67233 ± 0.01422**
 FCT-NM J-value = **0.00162499 ± 0.00000239**
 Air Shot 40Ar/36Ar = **304.7240 ± 0.4144**
 Air Shot MDF = **0.99242272 ± 0.00066330 (LIN)**
 Experiment Type = **Incremental Heating**
 Extraction Method = **Bulk Laser Heating**
 Heating = **77 sec**
 Isolation = **1.50 min**
 Instrument = **ARGUS-VI-D**
 Preferred Age = **Plateau Age**
 Age Classification = **Eruption Age**
 IGSN = **IESRS0066**
 Rock Class = **Igneous>Volcanic>Mafic**
 Lithology = **Trachyte**
 Lat-Lon = **31°17.1'S - 1°12.2'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) = **0.0006756 ± 0.0000089**
 Production 38/37(ca) = **0.0000718 ± 0.0000092**
 Production 36/37(ca) = **0.0002663 ± 0.0000004**
 Production 40/39(k) = **0.003823 ± 0.000102**
 Production 38/39(k) = **0.012031 ± 0.000019**
 Production 36/38(cl) = **262.80 ± 1.71**
 Scaling Ratio K/Ca = **0.430**
 Abundance Ratio 40K/K = **1.1700 ± 0.0100 E-04**
 Atomic Weight K = **39.0983 ± 0.0001 g**

Results	40(a)/36(a) ± 2σ	40(r)/39(k) ± 2σ	Age ± 2σ (Ma)	MSWD	39Ar(k) (%n)	K/Ca ± 2σ
Age Plateau		22.61607 ± 0.04927 ± 0.22%	65.27 ± 0.23 ± 0.36%	0.83 57%	51.67 9	0.68 ± 0.18
			Full External Error ± 1.48 Analytical Error ± 0.14	2.00 1.0000	2σ Confidence Limit Error Magnification	
Total Fusion Age		22.98468 ± 0.05132 ± 0.22%	66.31 ± 0.24 ± 0.36%		23	1.01 ± 0.01
			Full External Error ± 1.50 Analytical Error ± 0.15			
Normal Isochron	294.90 ± 1.51 ± 0.51%	22.64710 ± 0.09343 ± 0.41%	65.35 ± 0.33 ± 0.50%	0.86 54%	51.67 9	
			Full External Error ± 1.50 Analytical Error ± 0.26	2.07 1.0000	2σ Confidence Limit Error Magnification	
Inverse Isochron	294.89 ± 1.51 ± 0.51%	22.64827 ± 0.09340 ± 0.41%	65.36 ± 0.33 ± 0.50%	0.86 54%	51.67 9	
			Full External Error ± 1.50 Analytical Error ± 0.26	2.07 1.0000	2σ Confidence Limit Error Magnification	48% Spreading Factor



Low-T shows recoil but high-T yields a decent plateau.

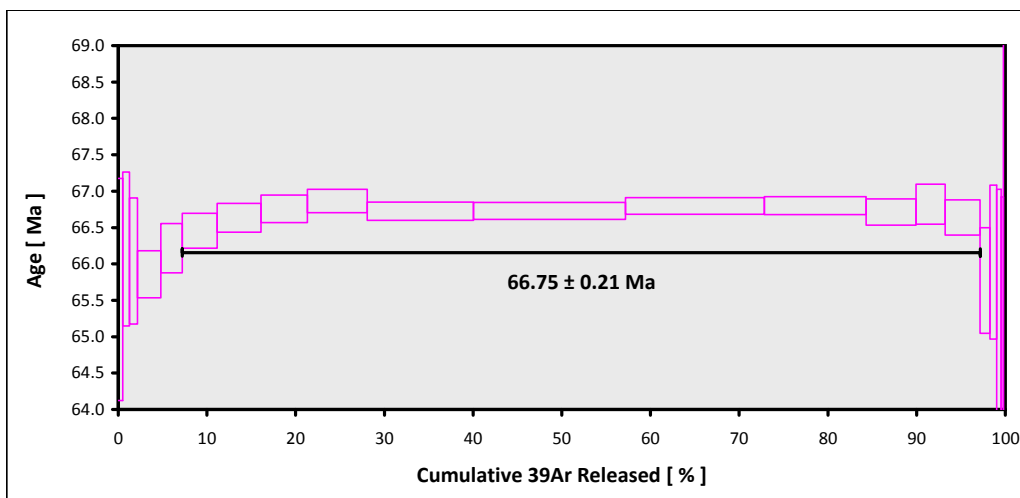


**EXP#16D07228 > MV1203-D09-01 > Plagioclase > MV1203 (13-INT-04)
 WALVIS RIDGE > HOSEA GUYOT
 15-OSU-07 (7A15-15) > Incremental Heating > Susan Schnur**

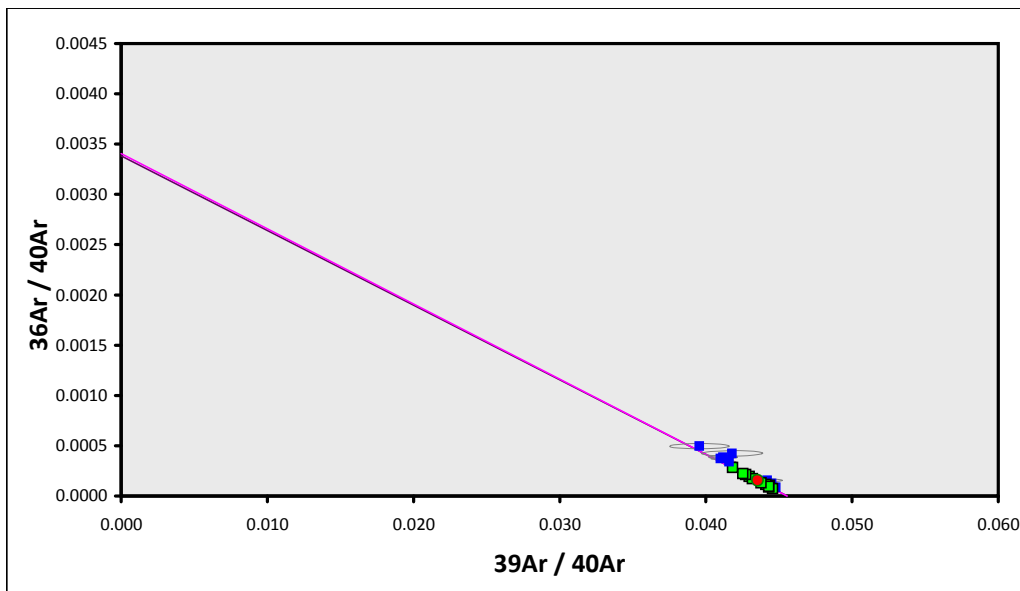
**Information on Analysis
 and Constants Used in Calculations**

Project = **MV1203 (13-INT-04)**
 Sample = **MV1203-D09-01**
 Material = **Plagioclase**
 Location = **Hosea Guyot**
 Region = **Walvis Ridge**
 Analyst = **Susan Schnur**
 Irradiation = **15-OSU-07 (7A15-15)**
 Position = **X: 0 | Y: 0 | Z/H: 26.92 mm**
 FCT-NM Age = **28.201 ± 0.023 Ma**
 FCT-NM Reference = **Kuiper et al (2008)**
 FCT-NM 40Ar/39Ar Ratio = **9.17382 ± 0.01422**
 FCT-NM J-value = **0.00171329 ± 0.00000266**
 Air Shot 40Ar/36Ar = **304.7290 ± 0.4175**
 Air Shot MDF = **0.99241873 ± 0.00066450 (LIN)**
 Experiment Type = **Incremental Heating**
 Extraction Method = **Bulk Laser Heating**
 Heating = **77 sec**
 Isolation = **1.50 min**
 Instrument = **ARGUS-VI-D**
 Preferred Age = **Plateau Age**
 Age Classification = **Eruption Age**
 IGSN = **IESRS0067**
 Rock Class = **Igneous>Volcanic>Mafic**
 Lithology = **Trachybasalt**
 Lat-Lon = **31°30.1'S - 0°40.2'E**
 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) = **0.0006756 ± 0.0000089**
 Production 38/37(ca) = **0.0000718 ± 0.0000092**
 Production 36/37(ca) = **0.0002663 ± 0.0000004**
 Production 40/39(k) = **0.003823 ± 0.000102**
 Production 38/39(k) = **0.012031 ± 0.000019**
 Production 36/38(cl) = **262.80 ± 1.71**
 Scaling Ratio K/Ca = **0.430**
 Abundance Ratio 40K/K = **1.1700 ± 0.0100 E-04**
 Atomic Weight K = **39.0983 ± 0.0001 g**

Results	40(a)/36(a) ± 2σ	40(r)/39(k) ± 2σ	Age ± 2σ (Ma)	MSWD	39Ar(k) (%n)	K/Ca ± 2σ
Age Plateau		21.94614 ± 0.01760 ± 0.08%	66.75 ± 0.21 ± 0.31% Full External Error ± 1.51 Analytical Error ± 0.05	1.23 26% 1.89 1.1102	89.94 11 2σ Confidence Limit Error Magnification	0.0279 ± 0.0045
Total Fusion Age		21.91689 ± 0.01669 ± 0.08%	66.66 ± 0.21 ± 0.31% Full External Error ± 1.51 Analytical Error ± 0.05		21	0.0290 ± 0.0001
Normal Isochron	295.45 ± 14.43 ± 4.88%	21.94526 ± 0.05232 ± 0.24%	66.74 ± 0.26 ± 0.38% Full External Error ± 1.51 Analytical Error ± 0.16	1.38 19% 1.94 1.1742	89.94 11 2σ Confidence Limit Error Magnification	
Inverse Isochron	293.60 ± 14.26 ± 4.86%	21.95266 ± 0.05180 ± 0.24%	66.77 ± 0.26 ± 0.38% Full External Error ± 1.52 Analytical Error ± 0.15	1.35 20% 1.94 1.1636	89.94 11 2σ Confidence Limit Error Magnification 6% Spreading Factor	



Good plateau

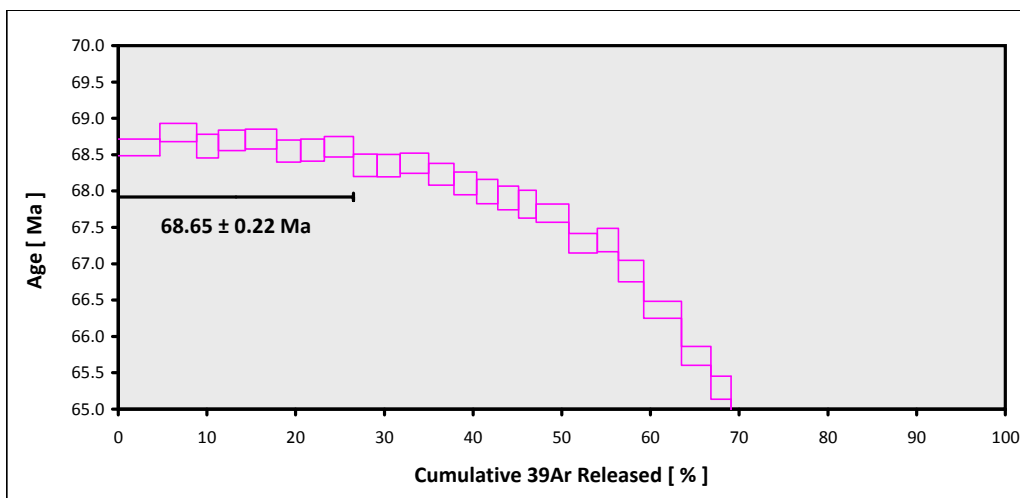


EXP#16D07263 > MV1203-D10-19 > Groundmass > MV1203 (13-INT-04)
WALVIS RIDGE > PELEG SEAMOUNT
15-OSU-07 (7A16-15) > Incremental Heating > Susan Schnur

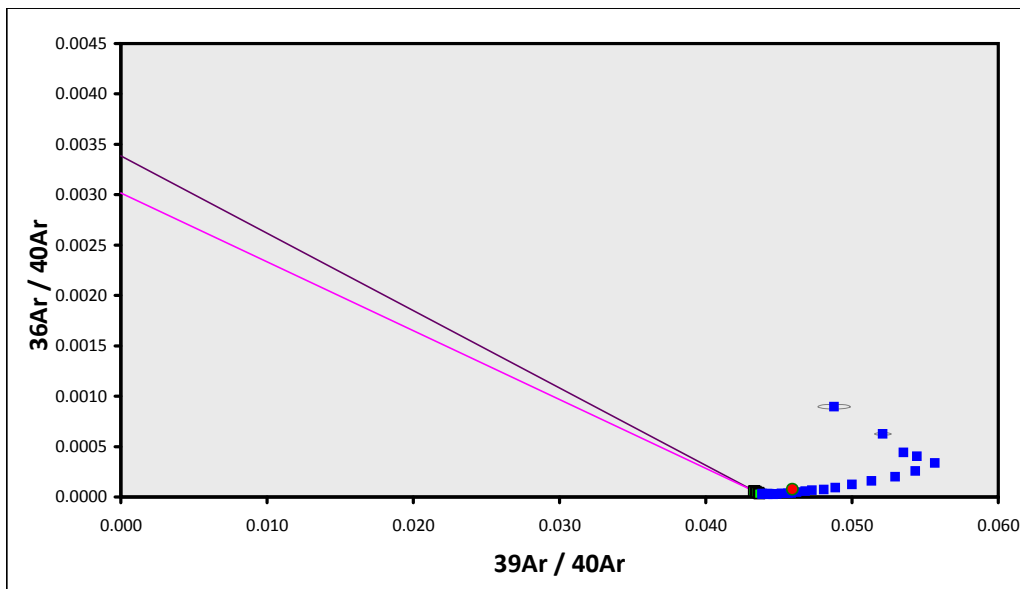
**Information on Analysis
 and Constants Used in Calculations**

Project = **MV1203 (13-INT-04)**
 Sample = **MV1203-D10-19**
 Material = **Groundmass**
 Location = **Peleg Seamount**
 Region = **Walvis Ridge**
 Analyst = **Susan Schnur**
 Irradiation = **15-OSU-07 (7A16-15)**
 Position = **X: 0 | Y: 0 | Z/H: 28.95 mm**
 FCT-NM Age = **28.201 ± 0.023 Ma**
 FCT-NM Reference = **Kuiper et al (2008)**
 FCT-NM 40Ar/39Ar Ratio = **9.21364 ± 0.01419**
 FCT-NM J-value = **0.00170588 ± 0.00000263**
 Air Shot 40Ar/36Ar = **304.7330 ± 0.4175**
 Air Shot MDF = **0.99241555 ± 0.00066449 (LIN)**
 Experiment Type = **Incremental Heating**
 Extraction Method = **Bulk Laser Heating**
 Heating = **77 sec**
 Isolation = **3.00 min**
 Instrument = **ARGUS-VI-D**
 Preferred Age = **Plateau Age**
 Age Classification = **Eruption Age**
 IGSN = **IESRS0068**
 Rock Class = **Igneous>Volcanic>Mafic**
 Lithology = **Tephrite**
 Lat-Lon = **30°07.0'S - 1°22.3'E**
 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) = **0.0006756 ± 0.0000089**
 Production 38/37(ca) = **0.0000718 ± 0.0000092**
 Production 36/37(ca) = **0.0002663 ± 0.0000004**
 Production 40/39(k) = **0.003823 ± 0.000102**
 Production 38/39(k) = **0.012031 ± 0.000019**
 Production 36/38(cl) = **262.80 ± 1.71**
 Scaling Ratio K/Ca = **0.430**
 Abundance Ratio 40K/K = **1.1700 ± 0.0100 E-04**
 Atomic Weight K = **39.0983 ± 0.0001 g**

Results	40(a)/36(a) ± 2σ	40(r)/39(k) ± 2σ	Age ± 2σ (Ma)	MSWD	39Ar(k) (% _n)	K/Ca ± 2σ
Age Plateau		22.68278 ± 0.02119 ± 0.09%	68.65 ± 0.22 ± 0.32%	1.67 11%	26.53 8	0.551 ± 0.054
			Full External Error ± 1.55 Analytical Error ± 0.06	2.07 1.2941	2σ Confidence Limit Error Magnification	
Total Fusion Age		21.27579 ± 0.00819 ± 0.04%	64.47 ± 0.20 ± 0.30%		37	0.308 ± 0.000
			Full External Error ± 1.46 Analytical Error ± 0.02			
Normal Isochron	345.48 ± 109.69 ± 31.75%	22.62729 ± 0.12250 ± 0.54%	68.49 ± 0.42 ± 0.61%	1.84 9%	26.53 8	
			Full External Error ± 1.59 Analytical Error ± 0.36	2.15 1.3568	2σ Confidence Limit Error Magnification	
Inverse Isochron	331.63 ± 101.65 ± 30.65%	22.64324 ± 0.12186 ± 0.54%	68.53 ± 0.42 ± 0.61%	1.82 9%	26.53 8	
Clustered Points			Full External Error ± 1.59 Analytical Error ± 0.36	2.15 1.3505	2σ Confidence Limit Error Magnification	
				1%	Spreading Factor	



Low-T plateau is likely correct, but includes only a small % of total gas.



EXP#16D07319 > MV1203-D12-01 > Groundmass > MV1203 (13-INT-04)
WALVIS RIDGE > NARWHAL SEAMOUNT
15-OSU-07 (7A18-15) > Incremental Heating > Susan Schnur

**Information on Analysis
 and Constants Used in Calculations**

Project = **MV1203 (13-INT-04)**
 Sample = **MV1203-D12-01**
 Material = **Groundmass**
 Location = **Narwhal Seamount**
 Region = **Walvis Ridge**
 Analyst = **Susan Schnur**
 Irradiation = **15-OSU-07 (7A18-15)**
 Position = **X: 0 | Y: 0 | Z/H: 32.5 mm**
 FCT-NM Age = **28.201 ± 0.023 Ma**
 FCT-NM Reference = **Kuiper et al (2008)**
 FCT-NM 40Ar/39Ar Ratio = **9.28822 ± 0.01421**
 FCT-NM J-value = **0.00169219 ± 0.00000259**
 Air Shot 40Ar/36Ar = **304.7350 ± 0.4144**
 Air Shot MDF = **0.99241395 ± 0.00066328 (LIN)**
 Experiment Type = **Incremental Heating**
 Extraction Method = **Bulk Laser Heating**
 Heating = **77 sec**
 Isolation = **3.00 min**
 Instrument = **ARGUS-VI-D**
 Preferred Age = **Undefined**
 Age Classification = **Undefined**
 IGSN = **IESRS0069**
 Rock Class = **Igneous>Volcanic>Mafic**
 Lithology = **Basalt**
 Lat-Lon = **30°42.5'S - 0°18.9'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) = **0.0006756 ± 0.0000089**
 Production 38/37(ca) = **0.0000718 ± 0.0000092**
 Production 36/37(ca) = **0.0002663 ± 0.0000004**
 Production 40/39(k) = **0.003823 ± 0.000102**
 Production 38/39(k) = **0.012031 ± 0.000019**
 Production 36/38(cl) = **262.80 ± 1.71**
 Scaling Ratio K/Ca = **0.430**
 Abundance Ratio 40K/K = **1.1700 ± 0.0100 E-04**
 Atomic Weight K = **39.0983 ± 0.0001 g**

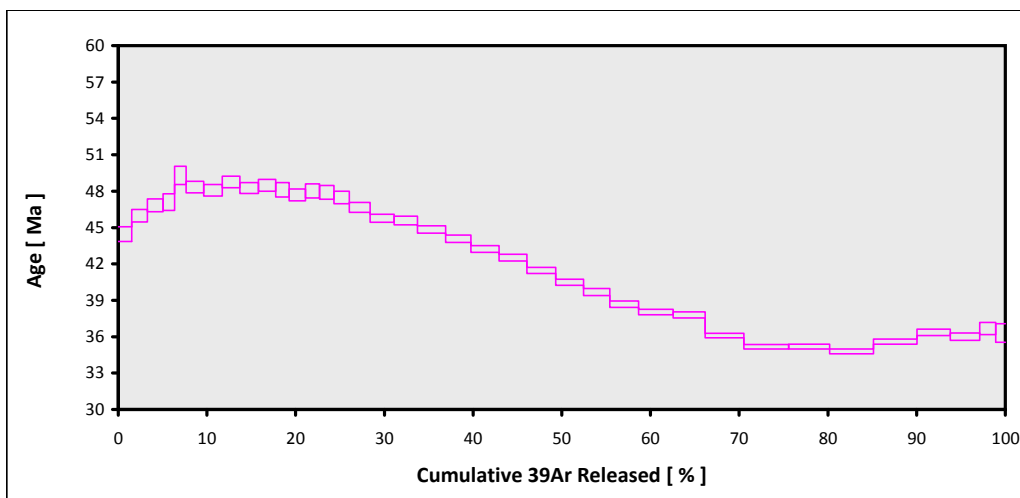
Results	40(a)/36(a) ± 2σ	40(r)/39(k) ± 2σ	Age ± 2σ (Ma)	MSWD	39Ar(k) (% _n)	K/Ca ± 2σ
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Age Plateau
 Cannot Calculate

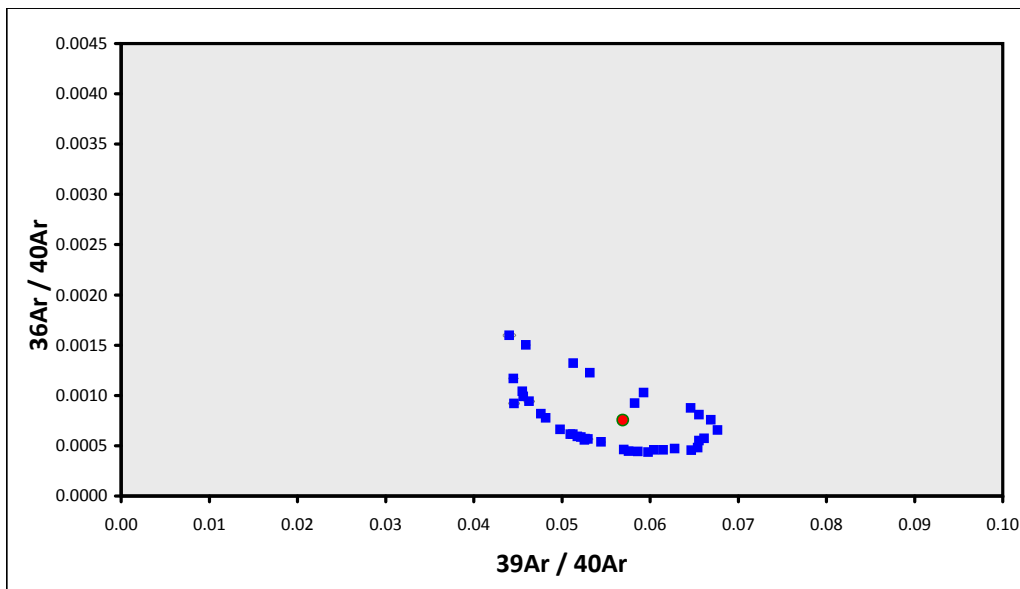
Total Fusion Age	13.64998 ± 0.01811 ± 0.13%	41.29 ± 0.14 ± 0.33%	37	0.0494 ± 0.0001
		Full External Error ± 0.94		
		Analytical Error ± 0.05		

Normal Isochron
 Cannot Calculate

Inverse Isochron
 Cannot Calculate



Strange wavy pattern in plateau, low-T plateau likely accurate, but includes too little gas.

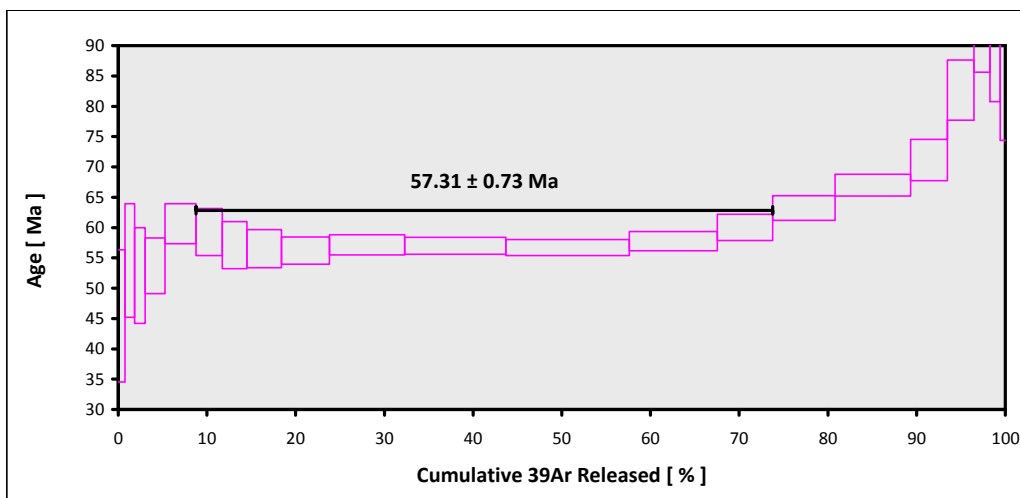


EXP#16D07401 > MV1203-D14-05 > Plagioclase > MV1203 (13-INT-04)
WALVIS RIDGE > BOTTLENOSE SEAMOUNT
15-OSU-07 (7A22-15) > Incremental Heating > Susan Schnur

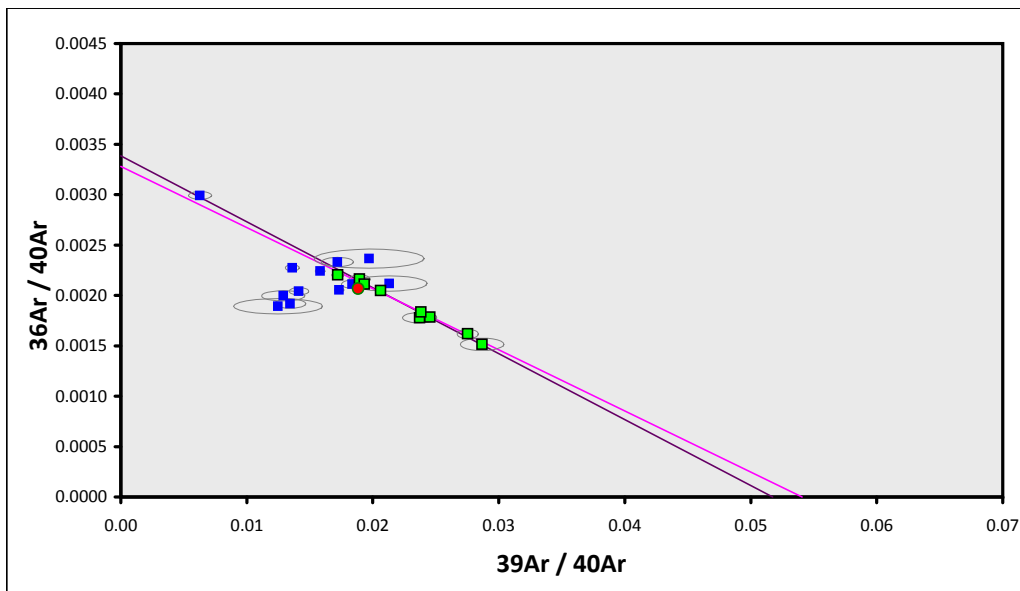
**Information on Analysis
 and Constants Used in Calculations**

Project = **MV1203 (13-INT-04)**
 Sample = **MV1203-D14-05**
 Material = **Plagioclase**
 Location = **Bottleneck Seamount**
 Region = **Walvis Ridge**
 Analyst = **Susan Schnur**
 Irradiation = **15-OSU-07 (7A22-15)**
 Position = **X: 0 | Y: 0 | Z/H: 38.84 mm**
 FCT-NM Age = **28.201 ± 0.023 Ma**
 FCT-NM Reference = **Kuiper et al (2008)**
 FCT-NM 40Ar/39Ar Ratio = **9.43709 ± 0.01425**
 FCT-NM J-value = **0.00166549 ± 0.00000251**
 Air Shot 40Ar/36Ar = **304.7380 ± 0.4144**
 Air Shot MDF = **0.99241156 ± 0.00066327 (LIN)**
 Experiment Type = **Incremental Heating**
 Extraction Method = **Bulk Laser Heating**
 Heating = **77 sec**
 Isolation = **1.50 min**
 Instrument = **ARGUS-VI-D**
 Preferred Age = **Plateau Age**
 Age Classification = **Eruption Age**
 IGSN = **IESRS0070**
 Rock Class = **Igneous>Volcanic>Mafic**
 Lithology = **Basalt**
 Lat-Lon = **30°48.4'S - 1°16.2'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) = **0.0006756 ± 0.0000089**
 Production 38/37(ca) = **0.0000718 ± 0.0000092**
 Production 36/37(ca) = **0.0002663 ± 0.0000004**
 Production 40/39(k) = **0.003823 ± 0.000102**
 Production 38/39(k) = **0.012031 ± 0.000019**
 Production 36/38(cl) = **262.80 ± 1.71**
 Scaling Ratio K/Ca = **0.430**
 Abundance Ratio 40K/K = **1.1700 ± 0.0100 E-04**
 Atomic Weight K = **39.0983 ± 0.0001 g**

Results	40(a)/36(a) ± 2σ	40(r)/39(k) ± 2σ	Age ± 2σ (Ma)	MSWD	39Ar(k) (% _n)	K/Ca ± 2σ
Age Plateau		19.33270 ± 0.24402 ± 1.26%	57.31 ± 0.73 ± 1.28% Full External Error ± 1.48 Analytical Error ± 0.71	1.26 26% 2.00 1.1243	65.03 9 2σ Confidence Limit Error Magnification	0.0013 ± 0.0001
Total Fusion Age		20.65112 ± 0.20435 ± 0.99%	61.15 ± 0.62 ± 1.02% Full External Error ± 1.50 Analytical Error ± 0.59		21	0.0012 ± 0.0000
Normal Isochron	304.80 ± 10.55 ± 3.46%	18.49583 ± 0.98140 ± 5.31%	54.86 ± 2.87 ± 5.23% Full External Error ± 3.12 Analytical Error ± 2.87	1.03 41% 2.07 1.0136	65.03 9 2σ Confidence Limit Error Magnification	
Inverse Isochron	304.91 ± 10.54 ± 3.46%	18.49045 ± 0.98069 ± 5.30%	54.85 ± 2.87 ± 5.23% Full External Error ± 3.12 Analytical Error ± 2.87	1.03 41% 2.07 1.0164	65.03 9 2σ Confidence Limit Spreading Factor	



Good plateau



EXP#16D08540 > MV1203-D14-06 > Plagioclase > MV1203 (13-INT-04)
WALVIS RIDGE > BOTTLENOSE SEAMOUNT
15-OSU-07 (7A24-15) > Incremental Heating > Susan Schnur

**Information on Analysis
 and Constants Used in Calculations**

Project = **MV1203 (13-INT-04)**
 Sample = **MV1203-D14-06**
 Material = **Plagioclase**
 Location = **Bottleneck Seamount**
 Region = **Walvis Ridge**
 Analyst = **Susan Schnur**
 Irradiation = **15-OSU-07 (7A24-15)**
 Position = **X: 0 | Y: 0 | Z/H: 42.2 mm**
 FCT-NM Age = **28.201 ± 0.023 Ma**
 FCT-NM Reference = **Kuiper et al (2008)**
 FCT-NM 40Ar/39Ar Ratio = **9.52413 ± 0.01419**
 FCT-NM J-value = **0.00165027 ± 0.00000246**
 Air Shot 40Ar/36Ar = **304.7450 ± 0.4175**
 Air Shot MDF = **0.99240599 ± 0.00066447 (LIN)**
 Experiment Type = **Incremental Heating**
 Extraction Method = **Bulk Laser Heating**
 Heating = **77 sec**
 Isolation = **1.50 min**
 Instrument = **ARGUS-VI-D**
 Preferred Age = **Undefined**
 Age Classification = **Undefined**
 IGSN = **IESRS0071**
 Rock Class = **Igneous>Volcanic>Mafic**
 Lithology = **Basalt**
 Lat-Lon = **30°48.4'S - 1°16.2'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) = **0.0006756 ± 0.0000089**
 Production 38/37(ca) = **0.0000718 ± 0.0000092**
 Production 36/37(ca) = **0.0002663 ± 0.0000004**
 Production 40/39(k) = **0.003823 ± 0.000102**
 Production 38/39(k) = **0.012031 ± 0.000019**
 Production 36/38(cl) = **262.80 ± 1.71**
 Scaling Ratio K/Ca = **0.430**
 Abundance Ratio 40K/K = **1.1700 ± 0.0100 E-04**
 Atomic Weight K = **39.0983 ± 0.0001 g**

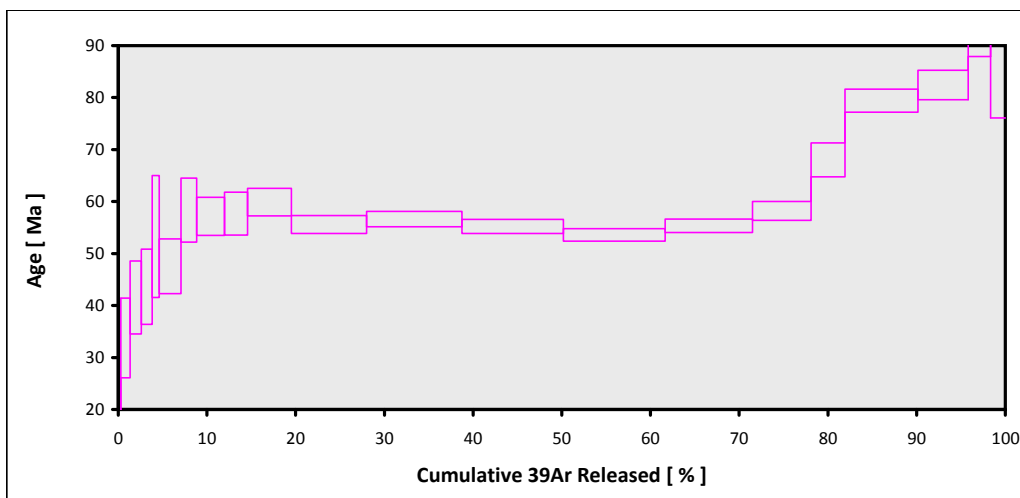
Results	40(a)/36(a) ± 2σ	40(r)/39(k) ± 2σ	Age ± 2σ (Ma)	MSWD	39Ar(k) (%n)	K/Ca ± 2σ
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Age Plateau
 Cannot Calculate

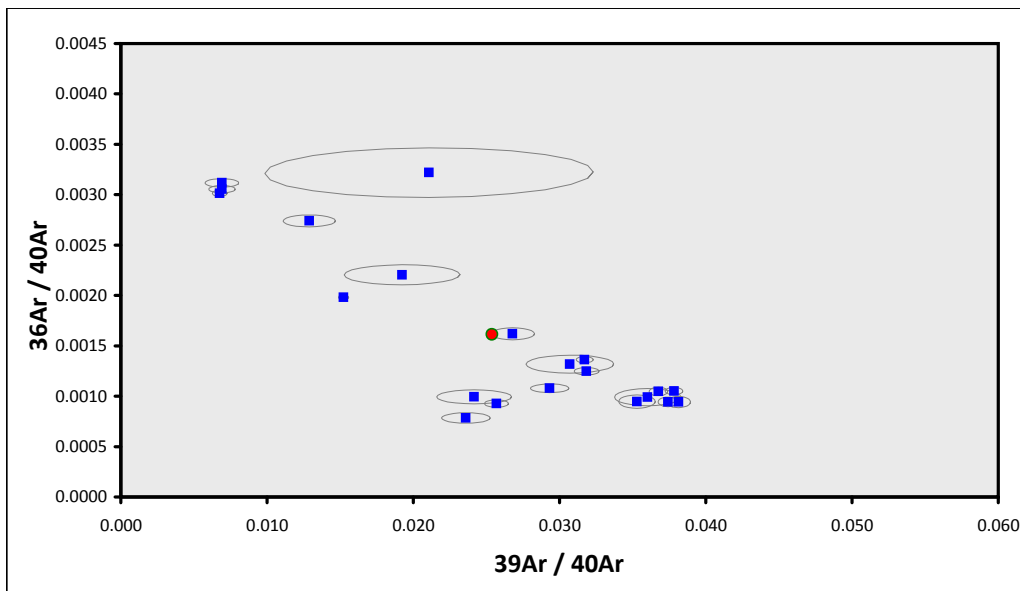
Total Fusion Age	20.61616 ± 0.20445 ± 0.99%	60.50 ± 0.62 ± 1.02%	21	0.0012 ± 0.0000		
		Full External Error ± 1.49				
		Analytical Error ± 0.59				

Normal Isochron
 Cannot Calculate

Inverse Isochron
 Cannot Calculate



Age drops slightly then rises at high-T, resulting in only a small low-T plateau.

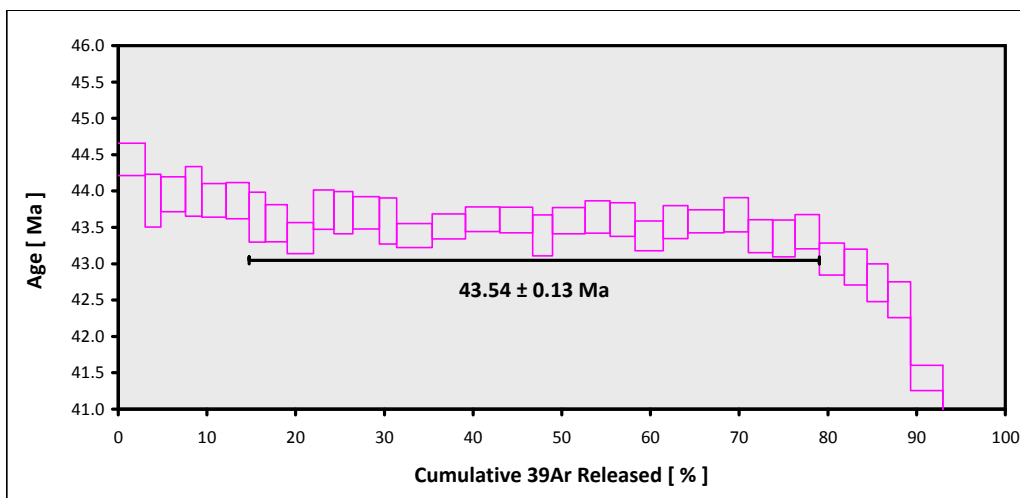


EXP#16D08652 > MV1203-D17-07 > Groundmass > MV1203 (13-INT-04)
WALVIS RIDGE > MAYHEW GUYOT
15-OSU-07 (7A35-15) > Incremental Heating > Susan Schnur

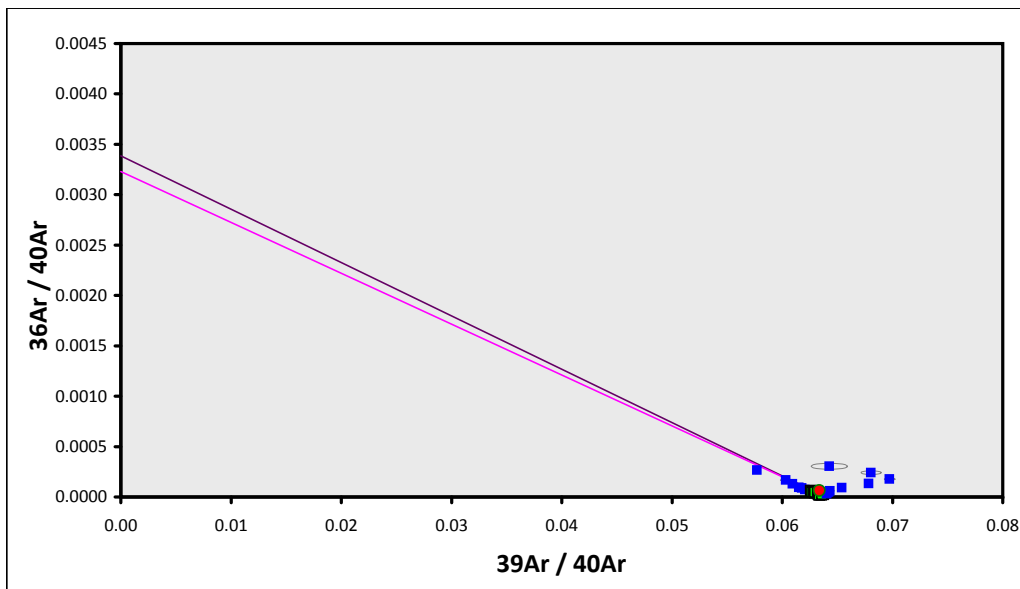
**Information on Analysis
 and Constants Used in Calculations**

Project = **MV1203 (13-INT-04)**
 Sample = **MV1203-D17-07**
 Material = **Groundmass**
 Location = **Mayhew Guyot**
 Region = **Walvis Ridge**
 Analyst = **Susan Schnur**
 Irradiation = **15-OSU-07 (7A35-15)**
 Position = **X: 0 | Y: 0 | Z/H: 60.21 mm**
 FCT-NM Age = **28.201 ± 0.023 Ma**
 FCT-NM Reference = **Kuiper et al (2008)**
 FCT-NM 40Ar/39Ar Ratio = **10.08695 ± 0.01422**
 FCT-NM J-value = **0.00155819 ± 0.00000220**
 Air Shot 40Ar/36Ar = **304.7430 ± 0.4145**
 Air Shot MDF = **0.99240758 ± 0.00066326 (LIN)**
 Experiment Type = **Incremental Heating**
 Extraction Method = **Bulk Laser Heating**
 Heating = **77 sec**
 Isolation = **3.00 min**
 Instrument = **ARGUS-VI-D**
 Preferred Age = **Plateau Age**
 Age Classification = **Eruption Age**
 IGSN = **IESRS0072**
 Rock Class = **Igneous>Volcanic>Mafic**
 Lithology = **Basalt**
 Lat-Lon = **32°06.5'S - 3°30.2'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) = **0.0006756 ± 0.0000089**
 Production 38/37(ca) = **0.0000718 ± 0.0000092**
 Production 36/37(ca) = **0.0002663 ± 0.0000004**
 Production 40/39(k) = **0.003823 ± 0.000102**
 Production 38/39(k) = **0.012031 ± 0.000019**
 Production 36/38(cl) = **262.80 ± 1.71**
 Scaling Ratio K/Ca = **0.430**
 Abundance Ratio 40K/K = **1.1700 ± 0.0100 E-04**
 Atomic Weight K = **39.0983 ± 0.0001 g**

Results	40(a)/36(a) ± 2σ	40(r)/39(k) ± 2σ	Age ± 2σ (Ma)	MSWD	39Ar(k) (%n)	K/Ca ± 2σ
Age Plateau		15.63971 ± 0.01838 ± 0.12%	43.54 ± 0.13 ± 0.30% Full External Error ± 0.99 Analytical Error ± 0.05	1.22 22%	64.27 22	0.174 ± 0.006 2σ Confidence Limit Error Magnification
Total Fusion Age		15.48972 ± 0.01408 ± 0.09%	43.13 ± 0.13 ± 0.29% Full External Error ± 0.98 Analytical Error ± 0.04		37	0.095 ± 0.000
Normal Isochron	304.40 ± 108.31 ± 35.58%	15.63387 ± 0.05908 ± 0.38%	43.52 ± 0.20 ± 0.47% Full External Error ± 1.00 Analytical Error ± 0.16	1.28 18%	64.27 22	1.63 2σ Confidence Limit Error Magnification
Inverse Isochron	309.48 ± 86.66 ± 28.00%	15.63282 ± 0.05871 ± 0.38%	43.52 ± 0.20 ± 0.46% Full External Error ± 1.00 Analytical Error ± 0.16	1.27 19%	64.27 22	1.63 2σ Confidence Limit Error Magnification
Clustered Points				1.63 2%		2σ Confidence Limit Spreading Factor



A little bumpy, but plateau is otherwise Good.

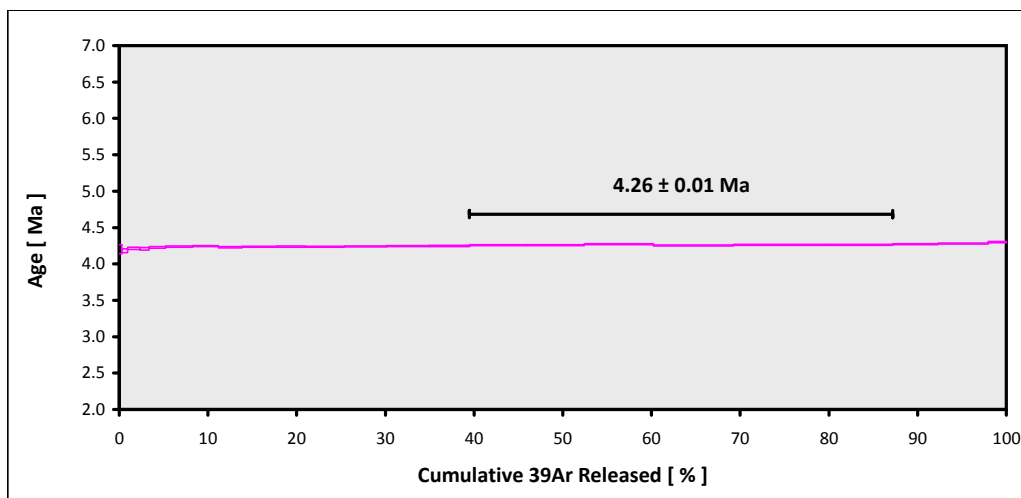


EXP#16D10436 > MV1203-D20B-06 > K-Feldspar > MV1203 (13-INT-04)
WALVIS RIDGE > HUMPBACK SEAMOUNT
15-OSU-07 (7A38-15) > Incremental Heating > Susan Schnur

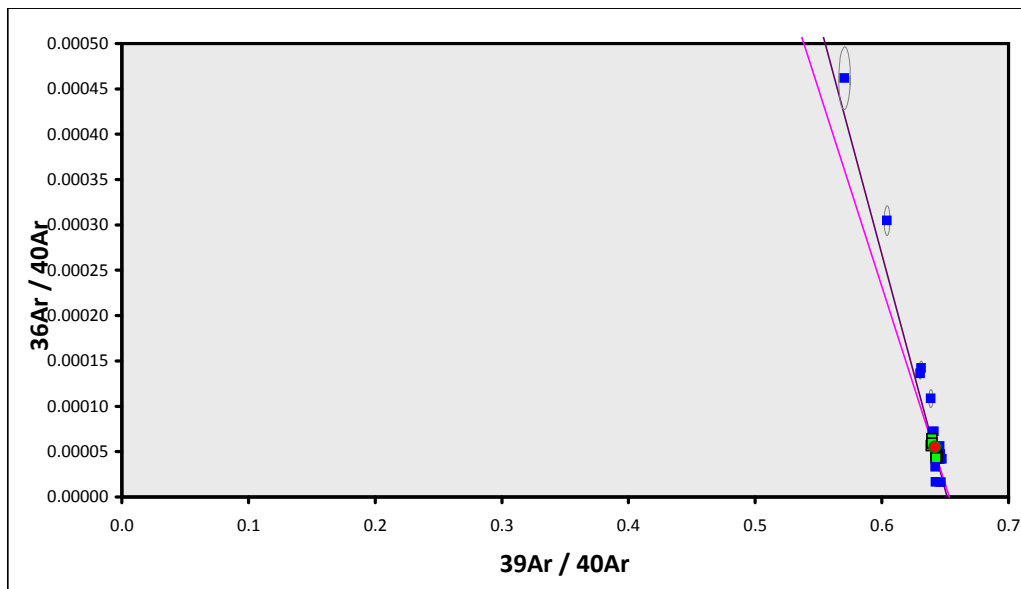
**Information on Analysis
 and Constants Used in Calculations**

Project = **MV1203 (13-INT-04)**
 Sample = **MV1203-D20B-06**
 Material = **K-Feldspar**
 Location = **Humpback Seamount**
 Region = **Walvis Ridge**
 Analyst = **Susan Schnur**
 Irradiation = **15-OSU-07 (7A38-15)**
 Position = **X: 0 | Y: 0 | Z/H: 64 mm**
 FCT-NM Age = **28.201 ± 0.023 Ma**
 FCT-NM Reference = **Kuiper et al (2008)**
 FCT-NM 40Ar/39Ar Ratio = **10.22605 ± 0.01421**
 FCT-NM J-value = **0.00153700 ± 0.00000214**
 Air Shot 40Ar/36Ar = **304.7500 ± 0.4175**
 Air Shot MDF = **0.99240201 ± 0.00066446 (LIN)**
 Experiment Type = **Incremental Heating**
 Extraction Method = **Bulk Laser Heating**
 Heating = **77 sec**
 Isolation = **1.50 min**
 Instrument = **ARGUS-VI-D**
 Preferred Age = **Plateau Age**
 Age Classification = **Eruption Age**
 IGSN = **IESRS0073**
 Rock Class = **Igneous>Volcanic>Mafic**
 Lithology = **Phonolite**
 Lat-Lon = **33°34.7'S - 2°23.9'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) = **0.0006756 ± 0.0000089**
 Production 38/37(ca) = **0.0000718 ± 0.0000092**
 Production 36/37(ca) = **0.0002663 ± 0.0000004**
 Production 40/39(k) = **0.003823 ± 0.000102**
 Production 38/39(k) = **0.012031 ± 0.000019**
 Production 36/38(cl) = **262.80 ± 1.71**
 Scaling Ratio K/Ca = **0.430**
 Abundance Ratio 40K/K = **1.1700 ± 0.0100 E-04**
 Atomic Weight K = **39.0983 ± 0.0001 g**

Results	40(a)/36(a) ± 2σ	40(r)/39(k) ± 2σ	Age ± 2σ (Ma)	MSWD	39Ar(k) (% ,n)	K/Ca ± 2σ
Age Plateau						
Error Mean		1.53508 ± 0.00172 ± 0.11%	4.26 ± 0.01 ± 0.30%	3.33	47.70	67 ± 5
			Full External Error ± 0.10	1%	6	
			Analytical Error ± 0.00	2.26	2σ Confidence Limit	
				1.8245	Error Magnification	
Total Fusion Age		1.53235 ± 0.00061 ± 0.04%	4.25 ± 0.01 ± 0.28%		23	69 ± 5
			Full External Error ± 0.10			
			Analytical Error ± 0.00			
Normal Isochron				3.60	47.70	
Error Chron	347.31 ± 143.32 ± 41.27%	1.53081 ± 0.01181 ± 0.77%	4.25 ± 0.03 ± 0.82%	1%	6	
			Full External Error ± 0.10	2.41	2σ Confidence Limit	
			Analytical Error ± 0.03	1.8967	Error Magnification	
Inverse Isochron				3.63	47.70	
Error Chron	351.60 ± 137.57 ± 39.13%	1.53053 ± 0.01192 ± 0.78%	4.25 ± 0.04 ± 0.83%	1%	6	
			Full External Error ± 0.10	2.41	2σ Confidence Limit	
			Analytical Error ± 0.03	1.9044	Error Magnification	
				1%	Spreading Factor	



Plateau region slants upwards, two small plateaus at low and high-T.

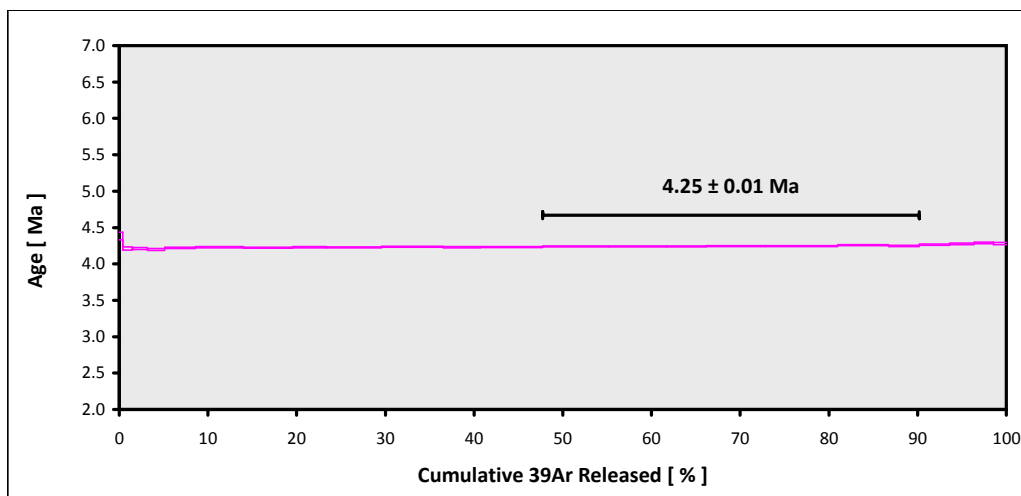


**EXP#16D10472 > MV1203-D20B-05 > K-Feldspar > MV1203 (13-INT-04)
 WALVIS RIDGE > HUMPBACK SEAMOUNT
 15-OSU-07 (7A36-15) > Incremental Heating > Susan Schnur**

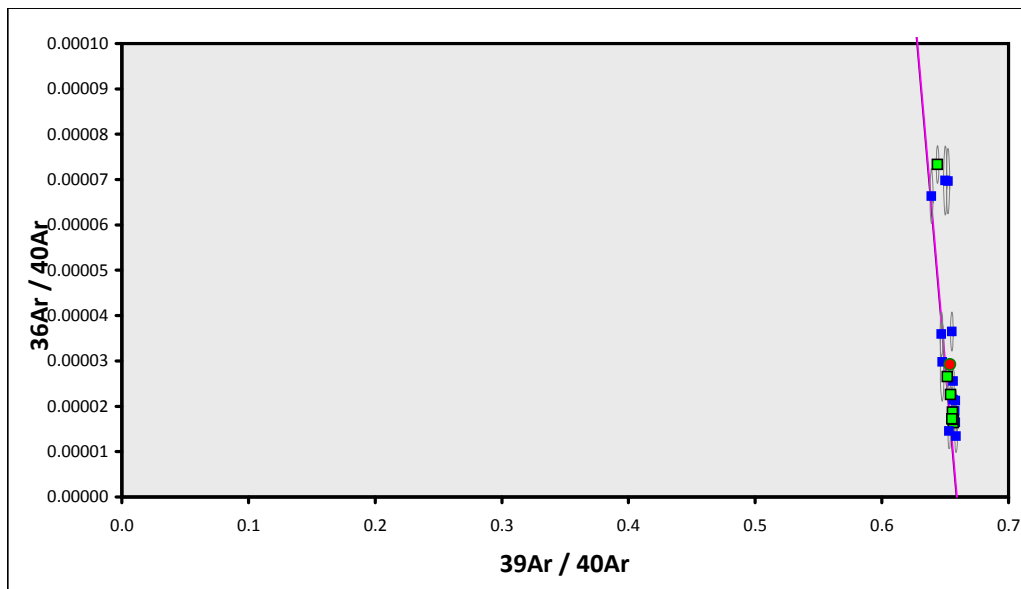
**Information on Analysis
 and Constants Used in Calculations**

Project = MV1203 (13-INT-04)
 Sample = MV1203-D20B-05
 Material = K-Feldspar
 Location = Humpback Seamount
 Region = Walvis Ridge
 Analyst = Susan Schnur
 Irradiation = 15-OSU-07 (7A36-15)
 Position = X: 0 | Y: 0 | Z/H: 61.97 mm
 FCT-NM Age = 28.201 ± 0.023 Ma
 FCT-NM Reference = Kuiper et al (2008)
 FCT-NM 40Ar/39Ar Ratio = 10.15065 ± 0.01421
 FCT-NM J-value = 0.00154841 ± 0.00000217
 Air Shot 40Ar/36Ar = 304.7490 ± 0.4175
 Air Shot MDF = 0.99240280 ± 0.00066446 (LIN)
 Experiment Type = Incremental Heating
 Extraction Method = Bulk Laser Heating
 Heating = 77 sec
 Isolation = 1.50 min
 Instrument = ARGUS-VI-D
 Preferred Age = Plateau Age
 Age Classification = Eruption Age
 IGSN = IESRS0074
 Rock Class = Igneous>Volcanic>Mafic
 Lithology = Phonolite
 Lat-Lon = 33°34.7'S - 2°23.9'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) = 0.0006756 ± 0.0000089
 Production 38/37(ca) = 0.0000718 ± 0.0000092
 Production 36/37(ca) = 0.0002663 ± 0.0000004
 Production 40/39(k) = 0.003823 ± 0.000102
 Production 38/39(k) = 0.012031 ± 0.000019
 Production 36/38(cl) = 262.80 ± 1.71
 Scaling Ratio K/Ca = 0.430
 Abundance Ratio 40K/K = 1.1700 ± 0.0100 E-04
 Atomic Weight K = 39.0983 ± 0.0001 g

Results	40(a)/36(a) ± 2σ	40(r)/39(k) ± 2σ	Age ± 2σ (Ma)	MSWD	39Ar(k) (%n)	K/Ca ± 2σ
Age Plateau						
Error Mean		1.51796 ± 0.00171 ± 0.11%	4.25 ± 0.01 ± 0.30%	3.32	42.43	67 ± 6
			Full External Error ± 0.10	0%	7	
			Analytical Error ± 0.00	2.15	2σ Confidence Limit	
				1.8233	Error Magnification	
Total Fusion Age		1.51612 ± 0.00061 ± 0.04%	4.24 ± 0.01 ± 0.28%		23	70 ± 5
			Full External Error ± 0.10			
			Analytical Error ± 0.00			
Normal Isochron	363.41 ± 75.99	1.51464 ± 0.00345 ± 0.23%	4.24 ± 0.02 ± 0.36%	3.68	42.43	
Error Chron	± 20.91%			0%	7	
			Full External Error ± 0.10	2.26	2σ Confidence Limit	
			Analytical Error ± 0.01	1.9184	Error Magnification	
Inverse Isochron	332.85 ± 69.95	1.51655 ± 0.00318 ± 0.21%	4.24 ± 0.01 ± 0.35%	3.25	42.43	
Error Chron	± 21.01%			1%	7	
			Full External Error ± 0.10	2.26	2σ Confidence Limit	
			Analytical Error ± 0.01	1.8020	Error Magnification	
				2%	Spreading Factor	



Slight upward slant with low and high-T plateaus. High-T plateau selected in this case.

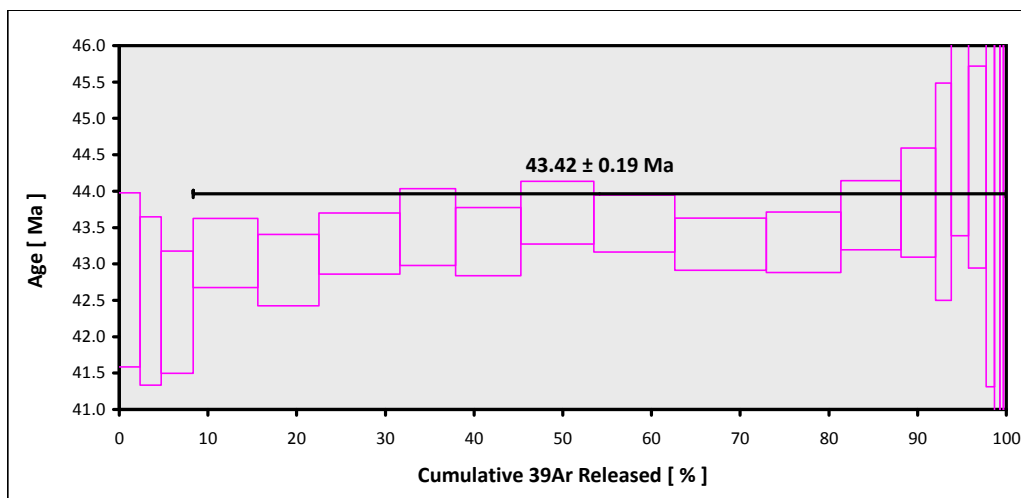


**EXP#16D10508 > MV1203-D17-06 > Plagioclase > MV1203 (13-INT-04)
 WALVIS RIDGE > MAYHEW GUYOT
 15-OSU-07 (7A34-15) > Incremental Heating > Susan Schnur**

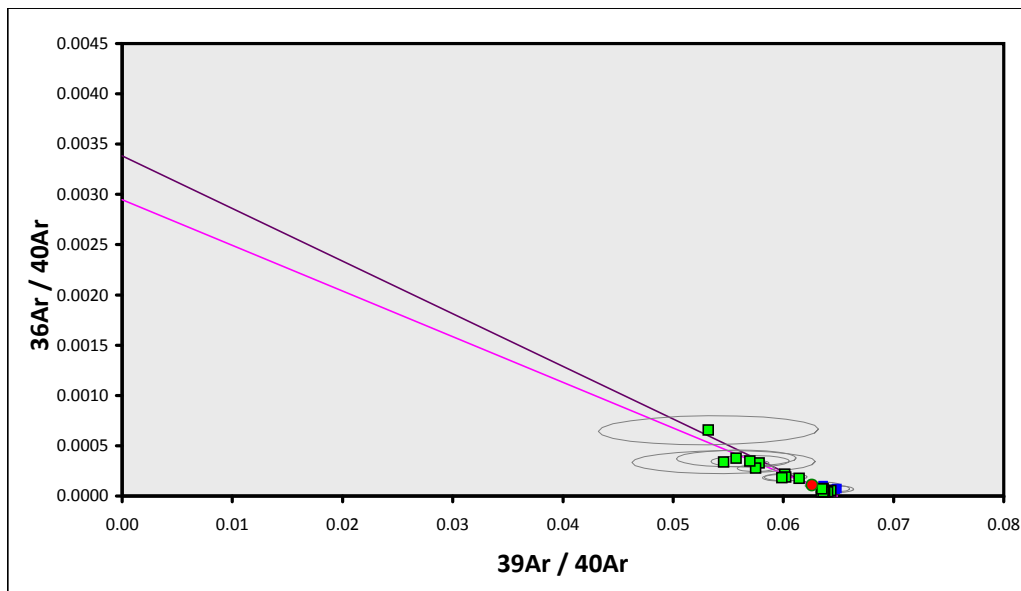
**Information on Analysis
 and Constants Used in Calculations**

Project = **MV1203 (13-INT-04)**
 Sample = **MV1203-D17-06**
 Material = **Plagioclase**
 Location = **Mayhew Guyot**
 Region = **Walvis Ridge**
 Analyst = **Susan Schnur**
 Irradiation = **15-OSU-07 (7A34-15)**
 Position = **X: 0 | Y: 0 | Z/H: 57.99 mm**
 FCT-NM Age = **28.201 ± 0.023 Ma**
 FCT-NM Reference = **Kuiper et al (2008)**
 FCT-NM 40Ar/39Ar Ratio = **10.00881 ± 0.01421**
 FCT-NM J-value = **0.00157036 ± 0.00000223**
 Air Shot 40Ar/36Ar = **304.7490 ± 0.4175**
 Air Shot MDF = **0.99240280 ± 0.00066446 (LIN)**
 Experiment Type = **Incremental Heating**
 Extraction Method = **Bulk Laser Heating**
 Heating = **77 sec**
 Isolation = **1.50 min**
 Instrument = **ARGUS-VI-D**
 Preferred Age = **Plateau Age**
 Age Classification = **Eruption Age**
 IGSN = **IESRS0075**
 Rock Class = **Igneous>Volcanic>Mafic**
 Lithology = **Basalt**
 Lat-Lon = **32°06.5'S - 3°30.2'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) = **0.0006756 ± 0.0000089**
 Production 38/37(ca) = **0.0000718 ± 0.0000092**
 Production 36/37(ca) = **0.0002663 ± 0.0000004**
 Production 40/39(k) = **0.003823 ± 0.000102**
 Production 38/39(k) = **0.012031 ± 0.000019**
 Production 36/38(cl) = **262.80 ± 1.71**
 Scaling Ratio K/Ca = **0.430**
 Abundance Ratio 40K/K = **1.1700 ± 0.0100 E-04**
 Atomic Weight K = **39.0983 ± 0.0001 g**

Results	40(a)/36(a) ± 2σ	40(r)/39(k) ± 2σ	Age ± 2σ (Ma)	MSWD	39Ar(k) (%n)	K/Ca ± 2σ
Age Plateau		15.47366 ± 0.05158 ± 0.33%	43.42 ± 0.19 ± 0.43% Full External Error ± 0.99 Analytical Error ± 0.14	1.14 31% 1.69 1.0678	91.68 18 2σ Confidence Limit Error Magnification	0.0042 ± 0.0002
Total Fusion Age		15.46669 ± 0.05193 ± 0.34%	43.40 ± 0.19 ± 0.43% Full External Error ± 0.99 Analytical Error ± 0.14		21	0.0043 ± 0.0000
Normal Isochron	321.15 ± 38.04 ± 11.84%	15.43759 ± 0.07664 ± 0.50%	43.32 ± 0.24 ± 0.57% Full External Error ± 1.00 Analytical Error ± 0.21	0.99 46% 1.71 1.0000	91.68 18 2σ Confidence Limit Error Magnification	
Inverse Isochron	339.33 ± 38.00 ± 11.20%	15.40940 ± 0.07784 ± 0.51%	43.24 ± 0.25 ± 0.57% Full External Error ± 1.00 Analytical Error ± 0.22	0.90 57% 1.71 1.0000	91.68 18 2σ Confidence Limit Error Magnification 17% Spreading Factor	



Good plateau



EXP#16D10572 > MV1203-D12-02 > Groundmass > MV1203 (13-INT-04)
WALVIS RIDGE > NARWHAL SEAMOUNT
15-OSU-07 (7A19-15) > Incremental Heating > Susan Schnur

**Information on Analysis
 and Constants Used in Calculations**

Project = **MV1203 (13-INT-04)**
 Sample = **MV1203-D12-02**
 Material = **Groundmass**
 Location = **Narwhal Seamount**
 Region = **Walvis Ridge**
 Analyst = **Susan Schnur**
 Irradiation = **15-OSU-07 (7A19-15)**
 Position = **X: 0 | Y: 0 | Z/H: 34.24 mm**
 FCT-NM Age = **28.201 ± 0.023 Ma**
 FCT-NM Reference = **Kuiper et al (2008)**
 FCT-NM 40Ar/39Ar Ratio = **9.32707 ± 0.01427**
 FCT-NM J-value = **0.00168514 ± 0.00000258**
 Air Shot 40Ar/36Ar = **304.7280 ± 0.4236**
 Air Shot MDF = **0.99241953 ± 0.00066695 (LIN)**
 Experiment Type = **Incremental Heating**
 Extraction Method = **Bulk Laser Heating**
 Heating = **77 sec**
 Isolation = **3.00 min**
 Instrument = **ARGUS-VI-D**
 Preferred Age = **Undefined**
 Age Classification = **Undefined**
 IGSN = **IESRS0076**
 Rock Class = **Igneous>Volcanic>Mafic**
 Lithology = **Basalt**
 Lat-Lon = **30°42.5'S - 0°18.9'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) = **0.0006756 ± 0.0000089**
 Production 38/37(ca) = **0.0000718 ± 0.0000092**
 Production 36/37(ca) = **0.0002663 ± 0.0000004**
 Production 40/39(k) = **0.003823 ± 0.000102**
 Production 38/39(k) = **0.012031 ± 0.000019**
 Production 36/38(cl) = **262.80 ± 1.71**
 Scaling Ratio K/Ca = **0.430**
 Abundance Ratio 40K/K = **1.1700 ± 0.0100 E-04**
 Atomic Weight K = **39.0983 ± 0.0001 g**

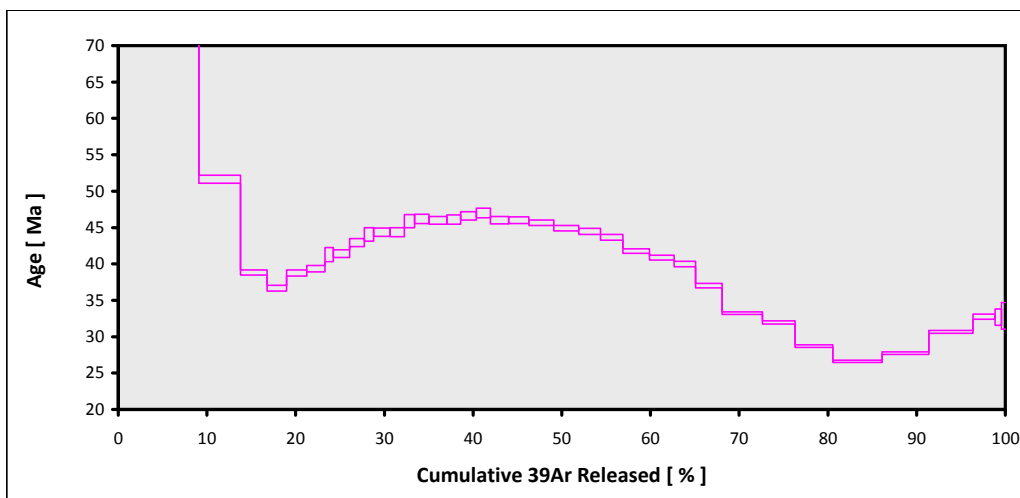
Results	40(a)/36(a) ± 2σ	40(r)/39(k) ± 2σ	Age ± 2σ (Ma)	MSWD	39Ar(k) (% _n)	K/Ca ± 2σ
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Age Plateau
 Cannot Calculate

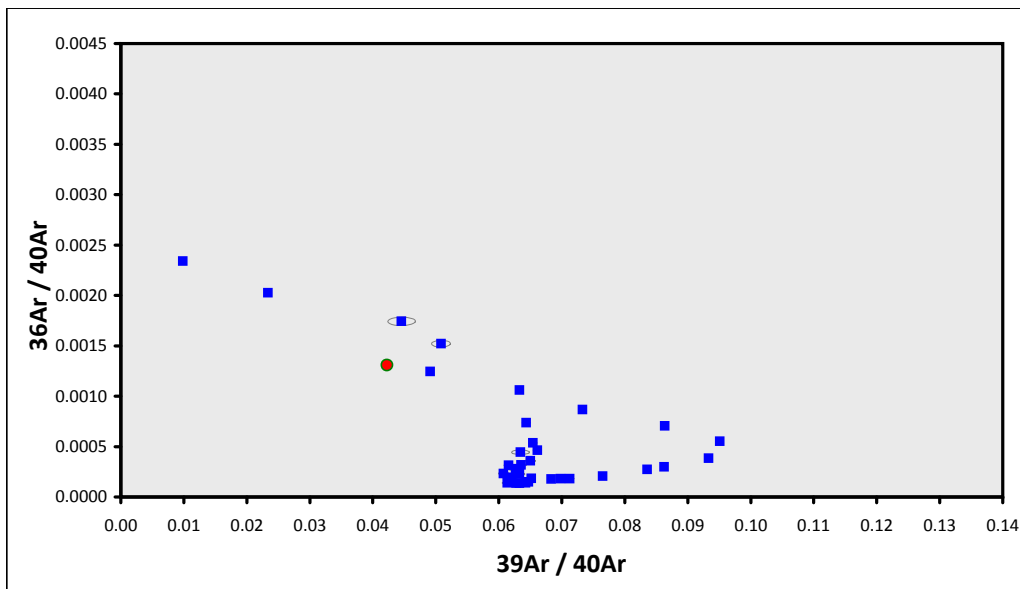
Total Fusion Age	14.51721 ± 0.04251 ± 0.29%	43.71 ± 0.18 ± 0.42%	37	0.0433 ± 0.0001
		Full External Error ± 1.00		
		Analytical Error ± 0.13		

Normal Isochron
 Cannot Calculate

Inverse Isochron
 Cannot Calculate



Plateau steps are highly variable, tiny plateau at mid-T might be correct, but unreliable.

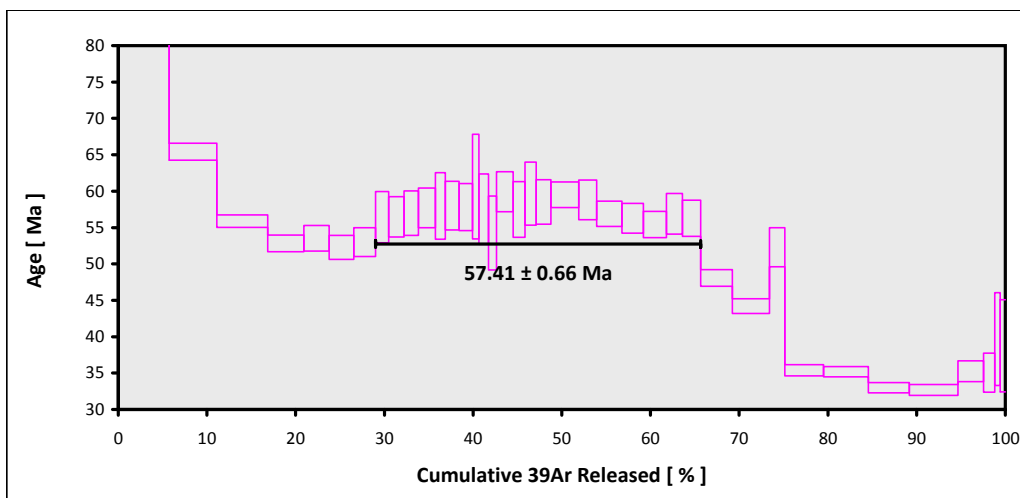


EXP#16D10626 > MV1203-D14-06 > Groundmass > MV1203 (13-INT-04)
WALVIS RIDGE > BOTTLENOSE SEAMOUNT
15-OSU-07 (7A23-15) > Incremental Heating > Susan Schnur

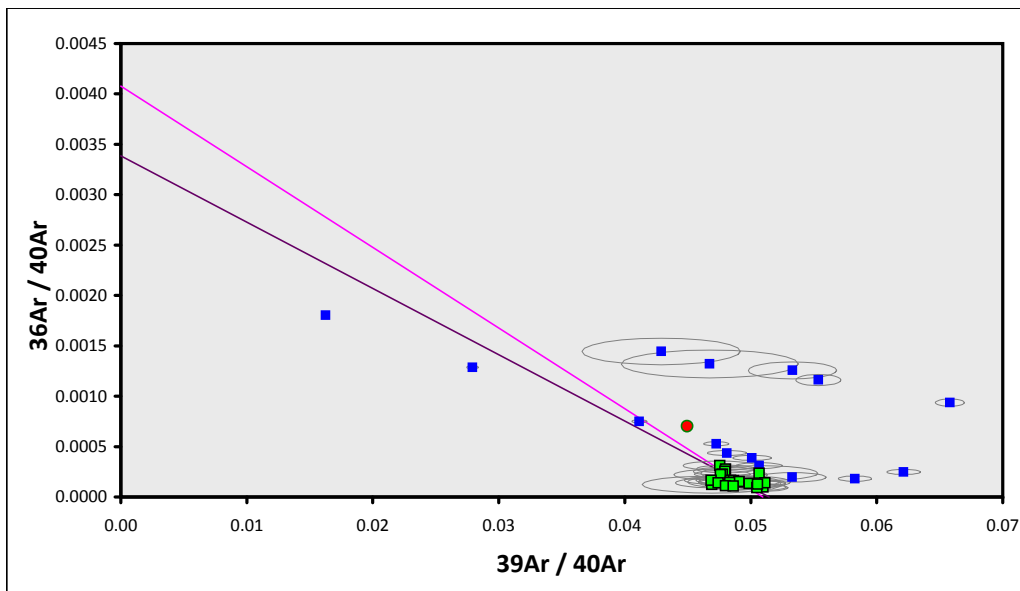
**Information on Analysis
 and Constants Used in Calculations**

Project = **MV1203 (13-INT-04)**
 Sample = **MV1203-D14-06**
 Material = **Groundmass**
 Location = **Bottleneck Seamount**
 Region = **Walvis Ridge**
 Analyst = **Susan Schnur**
 Irradiation = **15-OSU-07 (7A23-15)**
 Position = **X: 0 | Y: 0 | Z/H: 40.16 mm**
 FCT-NM Age = **28.201 ± 0.023 Ma**
 FCT-NM Reference = **Kuiper et al (2008)**
 FCT-NM 40Ar/39Ar Ratio = **9.47061 ± 0.01421**
 FCT-NM J-value = **0.00165960 ± 0.00000249**
 Air Shot 40Ar/36Ar = **304.7150 ± 0.4266**
 Air Shot MDF = **0.99242989 ± 0.00066821 (LIN)**
 Experiment Type = **Incremental Heating**
 Extraction Method = **Bulk Laser Heating**
 Heating = **77 sec**
 Isolation = **3.00 min**
 Instrument = **ARGUS-VI-D**
 Preferred Age = **Plateau Age**
 Age Classification = **Eruption Age**
 IGSN = **IESRS0077**
 Rock Class = **Igneous>Volcanic>Mafic**
 Lithology = **Basalt**
 Lat-Lon = **30°48.4'S - 1°16.2'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) = **0.0006756 ± 0.0000089**
 Production 38/37(ca) = **0.0000718 ± 0.0000092**
 Production 36/37(ca) = **0.0002663 ± 0.0000004**
 Production 40/39(k) = **0.003823 ± 0.000102**
 Production 38/39(k) = **0.012031 ± 0.000019**
 Production 36/38(cl) = **262.80 ± 1.71**
 Scaling Ratio K/Ca = **0.430**
 Abundance Ratio 40K/K = **1.1700 ± 0.0100 E-04**
 Atomic Weight K = **39.0983 ± 0.0001 g**

Results	40(a)/36(a) ± 2σ	40(r)/39(k) ± 2σ	Age ± 2σ (Ma)	MSWD	39Ar(k) (%),n	K/Ca ± 2σ
Age Plateau		19.43744 ± 0.21948 ± 1.13%	57.41 ± 0.66 ± 1.15%	1.13	36.63	0.0099 ± 0.0009
			Full External Error ± 1.45	31%	21	
			Analytical Error ± 0.64	1.63	2σ Confidence Limit	
				1.0629	Error Magnification	
Total Fusion Age		17.63018 ± 0.10224 ± 0.58%	52.15 ± 0.34 ± 0.64%		39	0.0090 ± 0.0001
			Full External Error ± 1.22			
			Analytical Error ± 0.30			
Normal Isochron	263.95 ± 183.01 ± 69.33%	19.51851 ± 0.61648 ± 3.16%	57.65 ± 1.80 ± 3.12%	1.13	36.63	
			Full External Error ± 2.22	31%	21	
			Analytical Error ± 1.79	1.65	2σ Confidence Limit	
				1.0624	Error Magnification	
Inverse Isochron	245.21 ± 97.00 ± 39.56%	19.62963 ± 0.62891 ± 3.20%	57.97 ± 1.84 ± 3.17%	1.19	36.63	
			Full External Error ± 2.25	26%	21	
			Analytical Error ± 1.83	1.65	2σ Confidence Limit	
				1.0891	Error Magnification	
				8%	Spreading Factor	



Low and high T steps are variable, but mid-T yields a small but acceptable plateau.



EXP#16D10683 > MV1203-D15-01 > Groundmass > MV1203 (13-INT-04)
WALVIS RIDGE > BULKINGTON EAST
15-OSU-07 (7A26-15) > Incremental Heating > Susan Schnur

Information on Analysis and Constants Used in Calculations

Project = **MV1203 (13-INT-04)**
 Sample = **MV1203-D15-01**
 Material = **Groundmass**
 Location = **Bulkington East**
 Region = **Walvis Ridge**
 Analyst = **Susan Schnur**
 Irradiation = **15-OSU-07 (7A26-15)**
 Position = **X: 0 | Y: 0 | Z/H: 45.29 mm**
 FCT-NM Age = **28.201 ± 0.023 Ma**
 FCT-NM Reference = **Kuiper et al (2008)**
 FCT-NM 40Ar/39Ar Ratio = **9.60917 ± 0.01422**
 FCT-NM J-value = **0.00163567 ± 0.00000242**
 Air Shot 40Ar/36Ar = **304.7180 ± 0.4266**
 Air Shot MDF = **0.99242750 ± 0.00066820 (LIN)**
 Experiment Type = **Incremental Heating**
 Extraction Method = **Bulk Laser Heating**
 Heating = **77 sec**
 Isolation = **3.00 min**
 Instrument = **ARGUS-VI-D**
 Preferred Age = **Undefined**
 Age Classification = **Undefined**
 IGSN = **IESRS0078**
 Rock Class = **Igneous>Volcanic>Mafic**
 Lithology = **Basaltic-Trachyandesite**
 Lat-Lon = **31°17.1'S - 1°12.2'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) = **0.0006756 ± 0.0000089**
 Production 38/37(ca) = **0.0000718 ± 0.0000092**
 Production 36/37(ca) = **0.0002663 ± 0.0000004**
 Production 40/39(k) = **0.003823 ± 0.000102**
 Production 38/39(k) = **0.012031 ± 0.000019**
 Production 36/38(cl) = **262.80 ± 1.71**
 Scaling Ratio K/Ca = **0.430**
 Abundance Ratio 40K/K = **1.1700 ± 0.0100 E-04**
 Atomic Weight K = **39.0983 ± 0.0001 g**

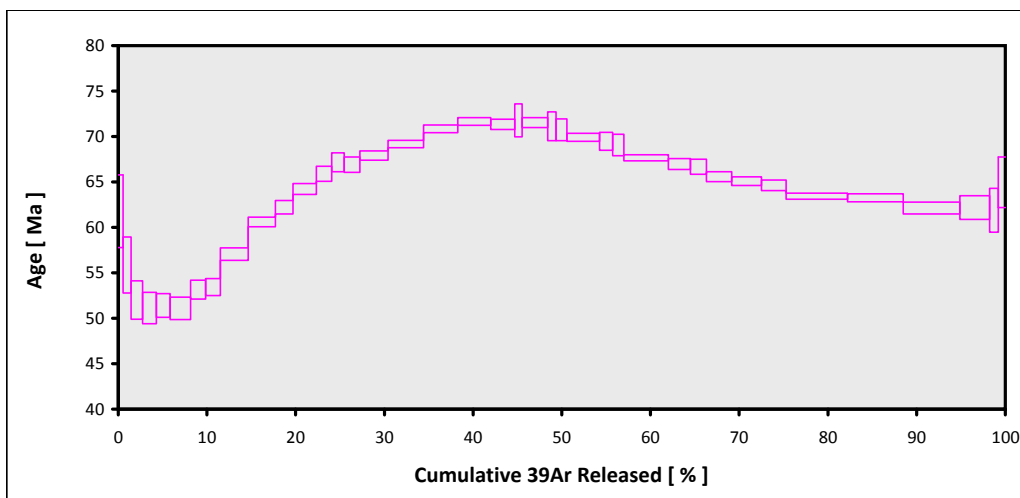
Results	40(a)/36(a) ± 2σ	40(r)/39(k) ± 2σ	Age ± 2σ (Ma)	MSWD	39Ar(k) (%n)	K/Ca ± 2σ
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Age Plateau
 Cannot Calculate

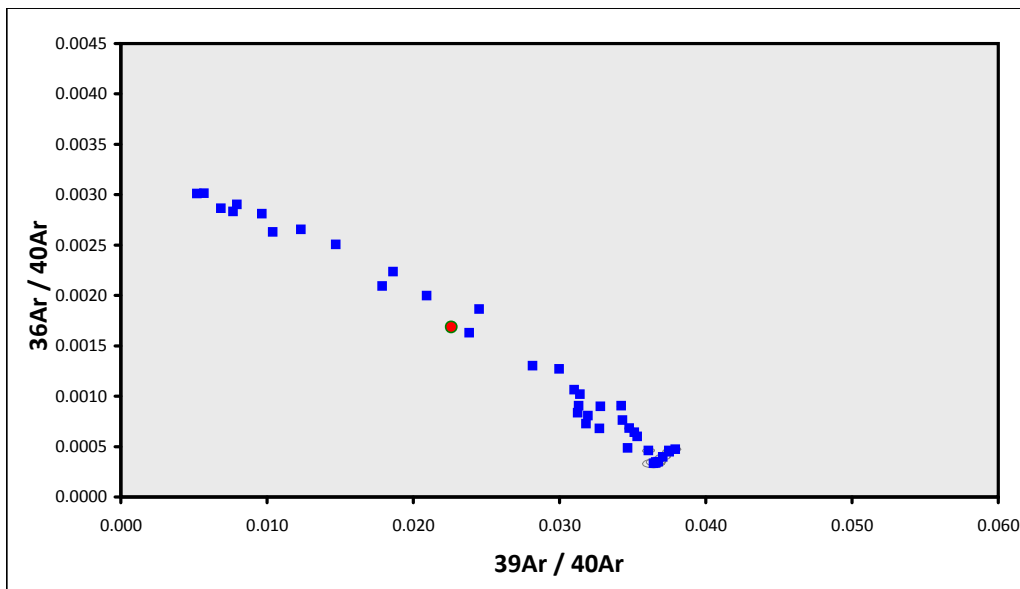
Total Fusion Age	22.19734 ± 0.04509 ± 0.20%	64.49 ± 0.23 ± 0.35%	39	0.339 ± 0.002
		Full External Error ± 1.46		
		Analytical Error ± 0.13		

Normal Isochron
 Cannot Calculate

Inverse Isochron
 Cannot Calculate



Steps form wavy shape, no clear plateau, K/Ca indicates alteration.

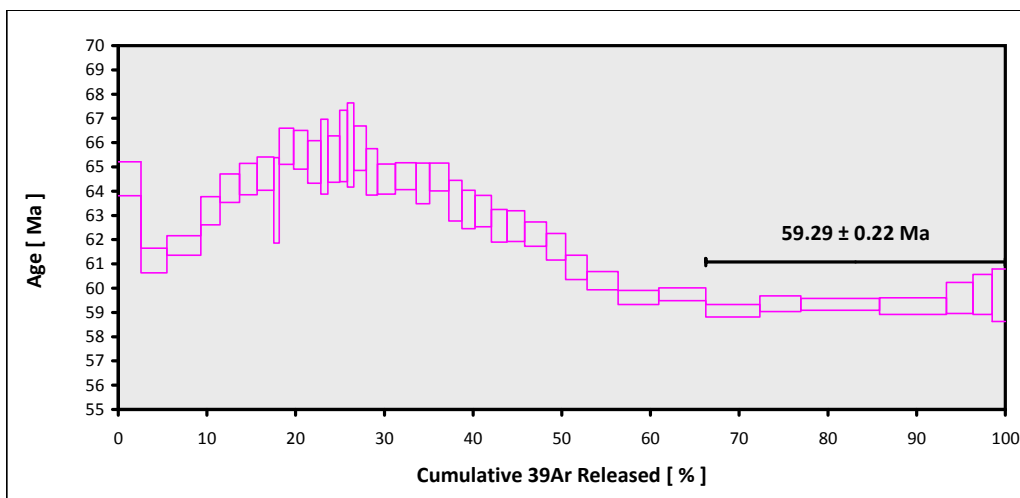


EXP#16D10771 > MV1203-D16-03 > Groundmass > MV1203 (13-INT-04)
WALVIS RIDGE > BULKINGTON WEST
15-OSU-07 (7A28-15) > Incremental Heating > Susan Schnur

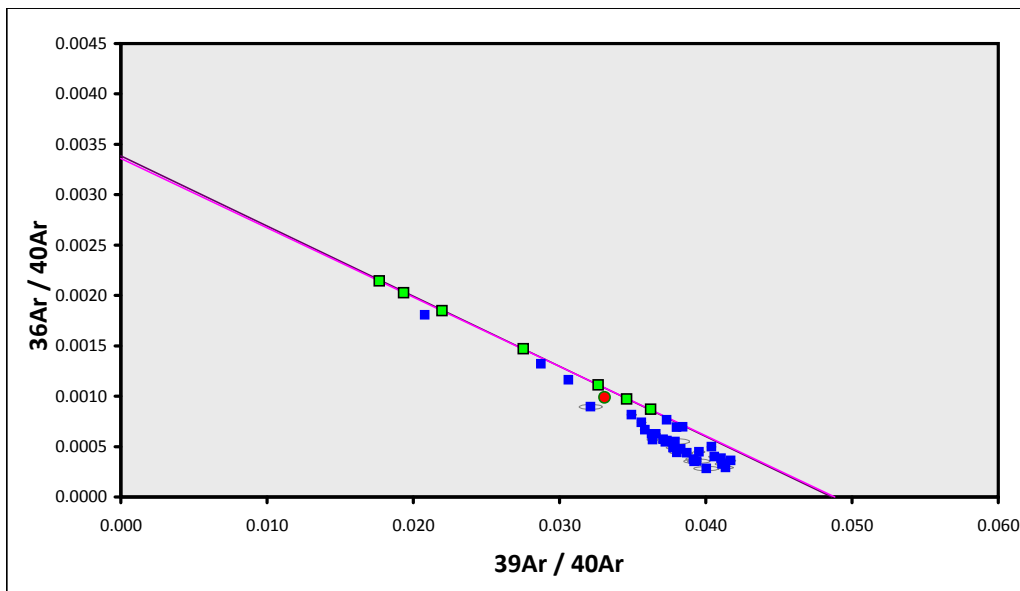
**Information on Analysis
 and Constants Used in Calculations**

Project = **MV1203 (13-INT-04)**
 Sample = **MV1203-D16-03**
 Material = **Groundmass**
 Location = **Bulkington West**
 Region = **Walvis Ridge**
 Analyst = **Susan Schnur**
 Irradiation = **15-OSU-07 (7A28-15)**
 Position = **X: 0 | Y: 0 | Z/H: 48.35 mm**
 FCT-NM Age = **28.201 ± 0.023 Ma**
 FCT-NM Reference = **Kuiper et al (2008)**
 FCT-NM 40Ar/39Ar Ratio = **9.69809 ± 0.01426**
 FCT-NM J-value = **0.00162067 ± 0.00000238**
 Air Shot 40Ar/36Ar = **304.7190 ± 0.4297**
 Air Shot MDF = **0.99242670 ± 0.00066944 (LIN)**
 Experiment Type = **Incremental Heating**
 Extraction Method = **Bulk Laser Heating**
 Heating = **77 sec**
 Isolation = **3.00 min**
 Instrument = **ARGUS-VI-D**
 Preferred Age = **Inverse Isochron**
 Age Classification = **Eruption Age**
 IGSN = **IESRS0079**
 Rock Class = **Igneous>Volcanic>Mafic**
 Lithology = **Basalt**
 Lat-Lon = **31°31.3'S - 1°56.9'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) = **0.0006756 ± 0.0000089**
 Production 38/37(ca) = **0.0000718 ± 0.0000092**
 Production 36/37(ca) = **0.0002663 ± 0.0000004**
 Production 40/39(k) = **0.003823 ± 0.000102**
 Production 38/39(k) = **0.012031 ± 0.000019**
 Production 36/38(cl) = **262.80 ± 1.71**
 Scaling Ratio K/Ca = **0.430**
 Abundance Ratio 40K/K = **1.1700 ± 0.0100 E-04**
 Atomic Weight K = **39.0983 ± 0.0001 g**

Results	40(a)/36(a) ± 2σ	40(r)/39(k) ± 2σ	Age ± 2σ (Ma)	MSWD	39Ar(k) (% _n)	K/Ca ± 2σ
Age Plateau		20.56447 ± 0.04809 ± 0.23%	59.29 ± 0.22 ± 0.37% Full External Error ± 1.35 Analytical Error ± 0.14	0.98 44% 2.15 1.0000	33.78 7 2σ Confidence Limit Error Magnification	0.020 ± 0.012
Total Fusion Age		21.40873 ± 0.03109 ± 0.15%	61.68 ± 0.20 ± 0.32% Full External Error ± 1.39 Analytical Error ± 0.09		39	0.066 ± 0.000
Normal Isochron	297.60 ± 2.30 ± 0.77%	20.48284 ± 0.10130 ± 0.49%	59.05 ± 0.33 ± 0.57% Full External Error ± 1.36 Analytical Error ± 0.29	0.51 77% 2.26 1.0000	33.78 7 2σ Confidence Limit Error Magnification	
Inverse Isochron	297.59 ± 2.30 ± 0.77%	20.48369 ± 0.10133 ± 0.49%	59.06 ± 0.33 ± 0.57% Full External Error ± 1.36 Analytical Error ± 0.29	0.51 77% 2.26 1.0000	33.78 7 2σ Confidence Limit Error Magnification 38% Spreading Factor	



Low-T is variable but high-T yields a small plateau. Isochron intercept is Good.



EXP#16D10828 > MV1203-D16-13 > Groundmass > MV1203 (13-INT-04)
WALVIS RIDGE > BULKINGTON WEST
15-OSU-07 (7A31-15) > Incremental Heating > Susan Schnur

**Information on Analysis
 and Constants Used in Calculations**

Project = **MV1203 (13-INT-04)**
 Sample = **MV1203-D16-13**
 Material = **Groundmass**
 Location = **Bulkington West**
 Region = **Walvis Ridge**
 Analyst = **Susan Schnur**
 Irradiation = **15-OSU-07 (7A31-15)**
 Position = **X: 0 | Y: 0 | Z/H: 53 mm**
 FCT-NM Age = **28.201 ± 0.023 Ma**
 FCT-NM Reference = **Kuiper et al (2008)**
 FCT-NM 40Ar/39Ar Ratio = **9.84217 ± 0.01427**
 FCT-NM J-value = **0.00159694 ± 0.00000232**
 Air Shot 40Ar/36Ar = **304.7280 ± 0.4266**
 Air Shot MDF = **0.99241953 ± 0.00066818 (LIN)**
 Experiment Type = **Incremental Heating**
 Extraction Method = **Bulk Laser Heating**
 Heating = **77 sec**
 Isolation = **3.00 min**
 Instrument = **ARGUS-VI-D**
 Preferred Age = **Undefined**
 Age Classification = **Undefined**
 IGSN = **IESRS0080**
 Rock Class = **Igneous>Volcanic>Mafic**
 Lithology = **Trachybasalt**
 Lat-Lon = **31°31.3'S - 1°56.9'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) = **0.0006756 ± 0.0000089**
 Production 38/37(ca) = **0.0000718 ± 0.0000092**
 Production 36/37(ca) = **0.0002663 ± 0.0000004**
 Production 40/39(k) = **0.003823 ± 0.000102**
 Production 38/39(k) = **0.012031 ± 0.000019**
 Production 36/38(cl) = **262.80 ± 1.71**
 Scaling Ratio K/Ca = **0.430**
 Abundance Ratio 40K/K = **1.1700 ± 0.0100 E-04**
 Atomic Weight K = **39.0983 ± 0.0001 g**

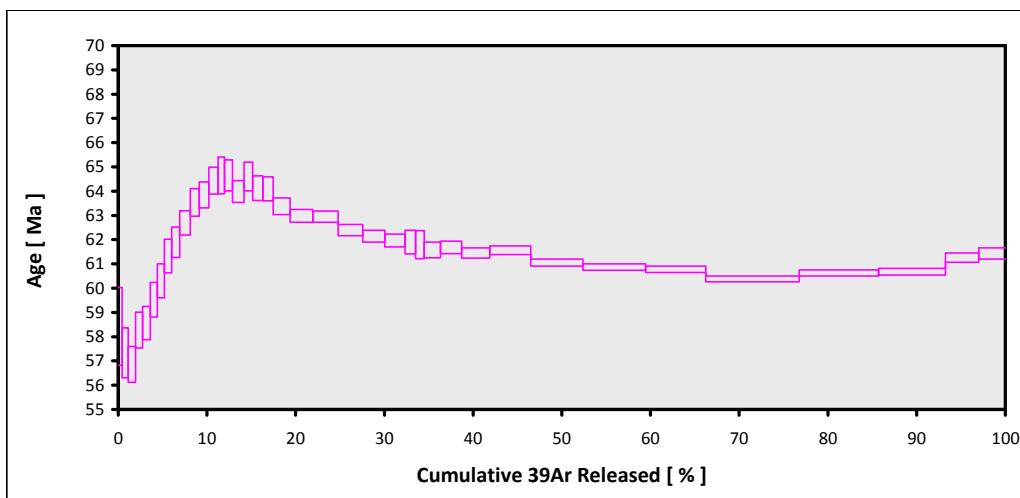
Results	40(a)/36(a) ± 2σ	40(r)/39(k) ± 2σ	Age ± 2σ (Ma)	MSWD	39Ar(k) (%n)	K/Ca ± 2σ
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Age Plateau
 Cannot Calculate

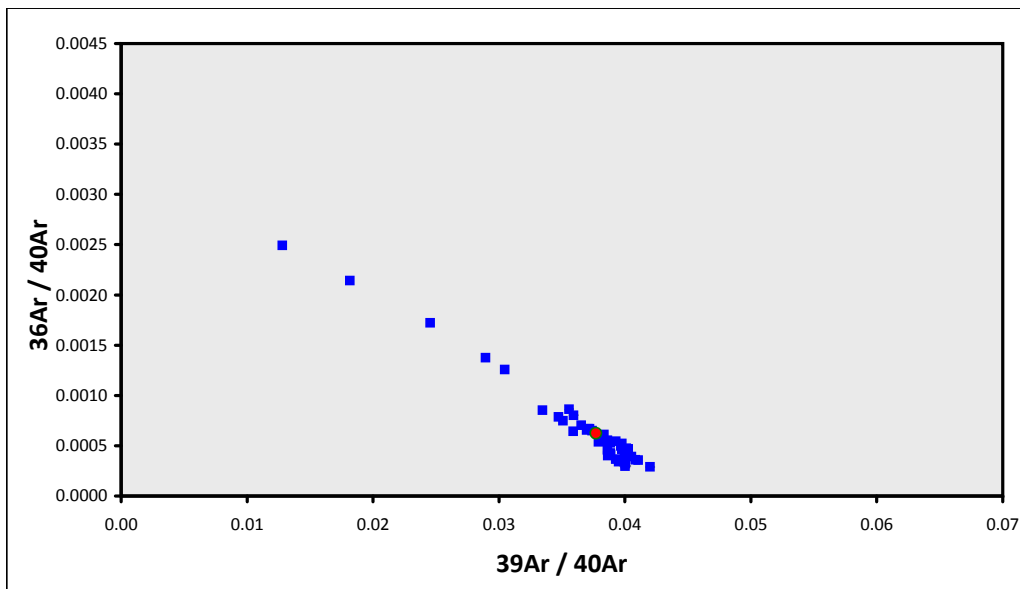
Total Fusion Age	21.62835 ± 0.01556 ± 0.07%	61.40 ± 0.18 ± 0.29%	39	0.394 ± 0.002
		Full External Error ± 1.39		
		Analytical Error ± 0.04		

Normal Isochron
 Cannot Calculate

Inverse Isochron
 Cannot Calculate



Low-T unreliable, high-T attempting to form a plateau but steps are non-concordant.

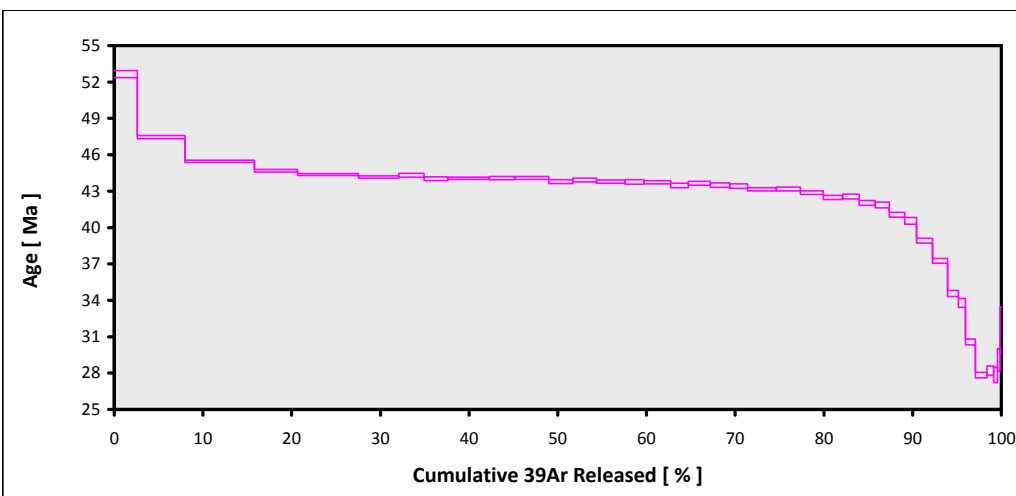


EXP#16D10885 > MV1203-D17-06 > Groundmass > MV1203 (13-INT-04)
WALVIS RIDGE > MAYHEW GUYOT
15-OSU-07 (7A32-15) > Incremental Heating > Susan Schnur

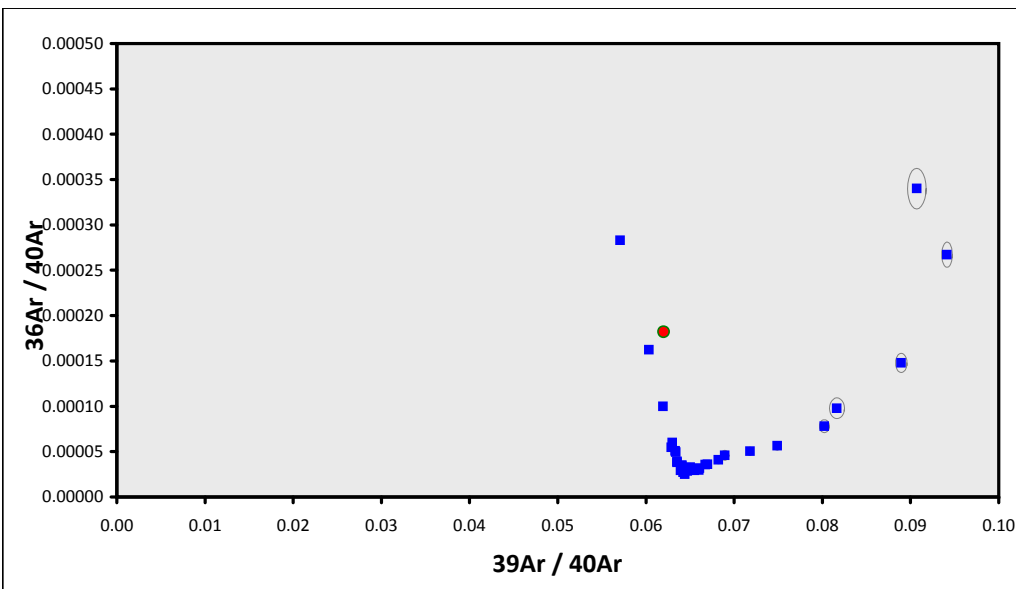
**Information on Analysis
 and Constants Used in Calculations**

Project = **MV1203 (13-INT-04)**
 Sample = **MV1203-D17-06**
 Material = **Groundmass**
 Location = **Mayhew Guyot**
 Region = **Walvis Ridge**
 Analyst = **Susan Schnur**
 Irradiation = **15-OSU-07 (7A32-15)**
 Position = **X: 0 | Y: 0 | Z/H: 55.18 mm**
 FCT-NM Age = **28.201 ± 0.023 Ma**
 FCT-NM Reference = **Kuiper et al (2008)**
 FCT-NM 40Ar/39Ar Ratio = **9.91344 ± 0.01418**
 FCT-NM J-value = **0.00158546 ± 0.00000227**
 Air Shot 40Ar/36Ar = **304.7250 ± 0.4266**
 Air Shot MDF = **0.99242192 ± 0.00066818 (LIN)**
 Experiment Type = **Incremental Heating**
 Extraction Method = **Bulk Laser Heating**
 Heating = **77 sec**
 Isolation = **3.00 min**
 Instrument = **ARGUS-VI-D**
 Preferred Age = **Undefined**
 Age Classification = **Undefined**
 IGSN = **IESRS0081**
 Rock Class = **Igneous>Volcanic>Mafic**
 Lithology = **Basalt**
 Lat-Lon = **32°06.5'S - 3°30.2'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) = **0.0006756 ± 0.0000089**
 Production 38/37(ca) = **0.0000718 ± 0.0000092**
 Production 36/37(ca) = **0.0002663 ± 0.0000004**
 Production 40/39(k) = **0.003823 ± 0.000102**
 Production 38/39(k) = **0.012031 ± 0.000019**
 Production 36/38(cl) = **262.80 ± 1.71**
 Scaling Ratio K/Ca = **0.430**
 Abundance Ratio 40K/K = **1.1700 ± 0.0100 E-04**
 Atomic Weight K = **39.0983 ± 0.0001 g**

Results	40(a)/36(a) ± 2σ	40(r)/39(k) ± 2σ	Age ± 2σ (Ma)	MSWD	39Ar(k) (%n)	K/Ca ± 2σ
Age Plateau						
Cannot Calculate						
Total Fusion Age		15.25837 ± 0.00964 ± 0.06%	43.23 ± 0.13 ± 0.29%		39	0.111 ± 0.000
			Full External Error ± 0.98			
			Analytical Error ± 0.03			
Normal Isochron						
Cannot Calculate						
Inverse Isochron						
Cannot Calculate						



Strong recoil effect, very minimal plateau at mid-T which is likely correct age but too small.

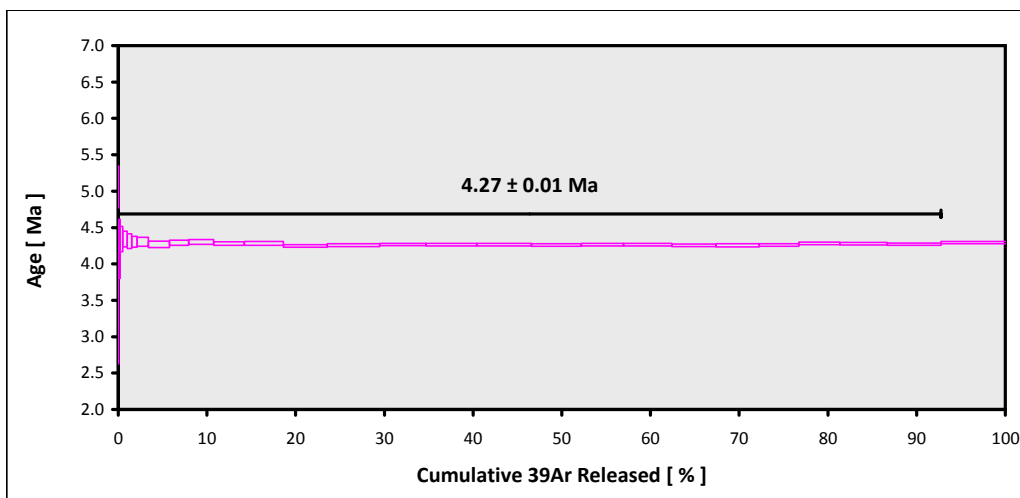


EXP#16D13459 > MV1203-D20B-06 > Biotite > MV1203 (13-INT-04)
WALVIS RIDGE > HUMPBACK SEAMOUNT
15-OSU-07 (7A39-15) > Incremental Heating > Susan Schnur

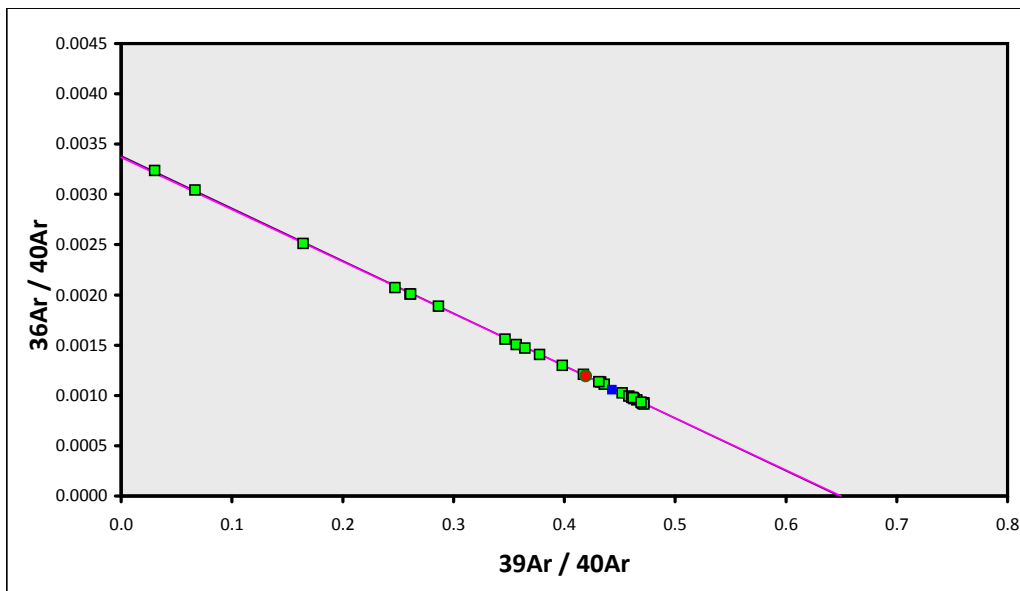
**Information on Analysis
 and Constants Used in Calculations**

Project = **MV1203 (13-INT-04)**
 Sample = **MV1203-D20B-06**
 Material = **Biotite**
 Location = **Humpback Seamount**
 Region = **Walvis Ridge**
 Analyst = **Susan Schnur**
 Irradiation = **15-OSU-07 (7A39-15)**
 Position = **X: 0 | Y: 0 | Z/H: 65 mm**
 FCT-NM Age = **28.201 ± 0.023 Ma**
 FCT-NM Reference = **Kuiper et al (2008)**
 FCT-NM 40Ar/39Ar Ratio = **10.26395 ± 0.01427**
 FCT-NM J-value = **0.00153132 ± 0.00000213**
 Air Shot 40Ar/36Ar = **304.4870 ± 0.4171**
 Air Shot MDF = **0.99261166 ± 0.00066503 (LIN)**
 Experiment Type = **Incremental Heating**
 Extraction Method = **Bulk Laser Heating**
 Heating = **77 sec**
 Isolation = **1.50 min**
 Instrument = **ARGUS-VI-D**
 Preferred Age = **Plateau Age**
 Age Classification = **Eruption Age**
 IGSN = **IESRS0082**
 Rock Class = **Igneous>Volcanic>Mafic**
 Lithology = **Phonolite**
 Lat-Lon = **33°34.7'S - 2°23.9'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) = **0.0006756 ± 0.0000089**
 Production 38/37(ca) = **0.0000718 ± 0.0000092**
 Production 36/37(ca) = **0.0002663 ± 0.0000004**
 Production 40/39(k) = **0.003823 ± 0.000102**
 Production 38/39(k) = **0.012031 ± 0.000019**
 Production 36/38(cl) = **262.80 ± 1.71**
 Scaling Ratio K/Ca = **0.430**
 Abundance Ratio 40K/K = **1.1700 ± 0.0100 E-04**
 Atomic Weight K = **39.0983 ± 0.0001 g**

Results	40(a)/36(a) ± 2σ	40(r)/39(k) ± 2σ	Age ± 2σ (Ma)	MSWD	39Ar(k) (% , n)	K/Ca ± 2σ
Age Plateau		1.54271 ± 0.00176 ± 0.11%	4.27 ± 0.01 ± 0.30%	1.28 16%	92.76 26	33 ± 7
			Full External Error ± 0.10 Analytical Error ± 0.00	1.57 1.1295	2σ Confidence Limit Error Magnification	
Total Fusion Age		1.54394 ± 0.00162 ± 0.10%	4.27 ± 0.01 ± 0.30%		27	78 ± 14
			Full External Error ± 0.10 Analytical Error ± 0.00			
Normal Isochron	296.90 ± 1.59 ± 0.54%	1.53923 ± 0.00425 ± 0.28%	4.26 ± 0.02 ± 0.39%	1.17 26%	92.76 26	
			Full External Error ± 0.10 Analytical Error ± 0.01	1.58 1.0803	2σ Confidence Limit Error Magnification	
Inverse Isochron	296.94 ± 1.59 ± 0.54%	1.53918 ± 0.00425 ± 0.28%	4.26 ± 0.02 ± 0.39%	1.17 26%	92.76 26	
			Full External Error ± 0.10 Analytical Error ± 0.01	1.58 1.0813	2σ Confidence Limit Error Magnification	68% Spreading Factor



Good plateau



EXP#16D13502 > MV1203-D23-13A > Plagioclase > MV1203 (13-INT-04)
WALVIS RIDGE > WUST GUYOT
15-OSU-07 (7B7-15) > Incremental Heating > Susan Schnur

**Information on Analysis
 and Constants Used in Calculations**

Project = **MV1203 (13-INT-04)**
 Sample = **MV1203-D23-13A**
 Material = **Plagioclase**
 Location = **Wust Guyot**
 Region = **Walvis Ridge**
 Analyst = **Susan Schnur**
 Irradiation = **15-OSU-07 (7B7-15)**
 Position = **X: 0 | Y: 0 | Z/H: 12.88 mm**
 FCT-NM Age = **28.201 ± 0.023 Ma**
 FCT-NM Reference = **Kuiper et al (2008)**
 FCT-NM 40Ar/39Ar Ratio = **9.00364 ± 0.01288**
 FCT-NM J-value = **0.00174567 ± 0.00000250**
 Air Shot 40Ar/36Ar = **304.4460 ± 0.4140**
 Air Shot MDF = **0.99264438 ± 0.00066391 (LIN)**
 Experiment Type = **Incremental Heating**
 Extraction Method = **Bulk Laser Heating**
 Heating = **77 sec**
 Isolation = **1.50 min**
 Instrument = **ARGUS-VI-D**
 Preferred Age = **Undefined**
 Age Classification = **Undefined**
 IGSN = **IESRS0083**
 Rock Class = **Igneous>Volcanic>Mafic**
 Lithology = **Trachybasalt**
 Lat-Lon = **34°13.4'S - 3°46.2'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) = **0.0006756 ± 0.0000089**
 Production 38/37(ca) = **0.0000718 ± 0.0000092**
 Production 36/37(ca) = **0.0002663 ± 0.0000004**
 Production 40/39(k) = **0.003823 ± 0.000102**
 Production 38/39(k) = **0.012031 ± 0.000019**
 Production 36/38(cl) = **262.80 ± 1.71**
 Scaling Ratio K/Ca = **0.430**
 Abundance Ratio 40K/K = **1.1700 ± 0.0100 E-04**
 Atomic Weight K = **39.0983 ± 0.0001 g**

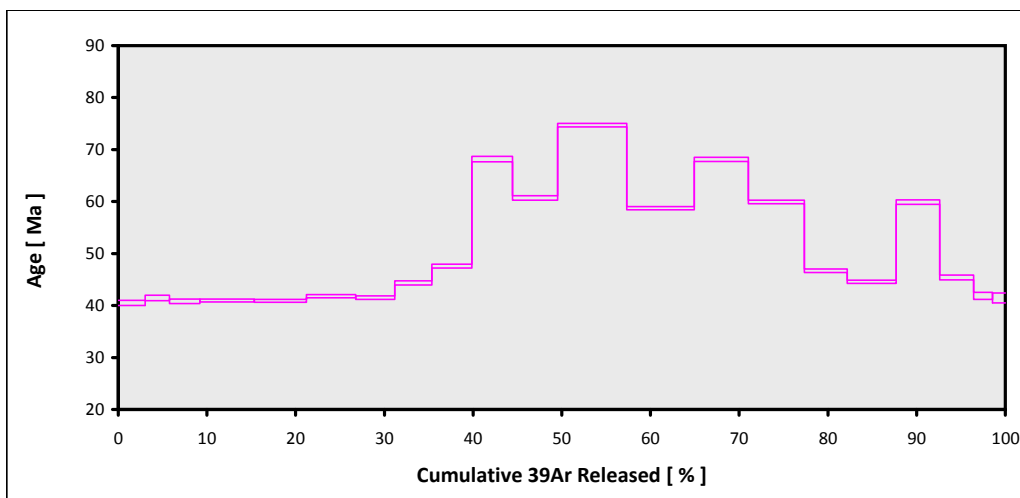
Results	40(a)/36(a) ± 2σ	40(r)/39(k) ± 2σ	Age ± 2σ (Ma)	MSWD	39Ar(k) (% _n)	K/Ca ± 2σ
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Age Plateau
 Cannot Calculate

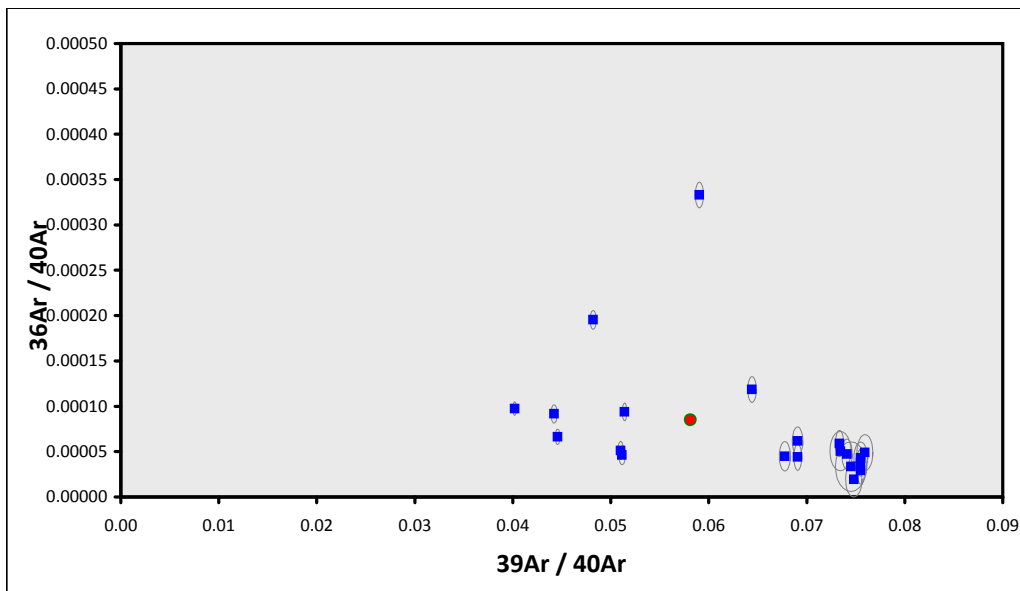
Total Fusion Age	16.77297 ± 0.02848 ± 0.17%	52.19 ± 0.17 ± 0.33%	21	0.0080 ± 0.0000
		Full External Error ± 1.18		
		Analytical Error ± 0.09		

Normal Isochron
 Cannot Calculate

Inverse Isochron
 Cannot Calculate



Tiny plateau at low-T but high-T is highly variable, likely full of melt inclusions.

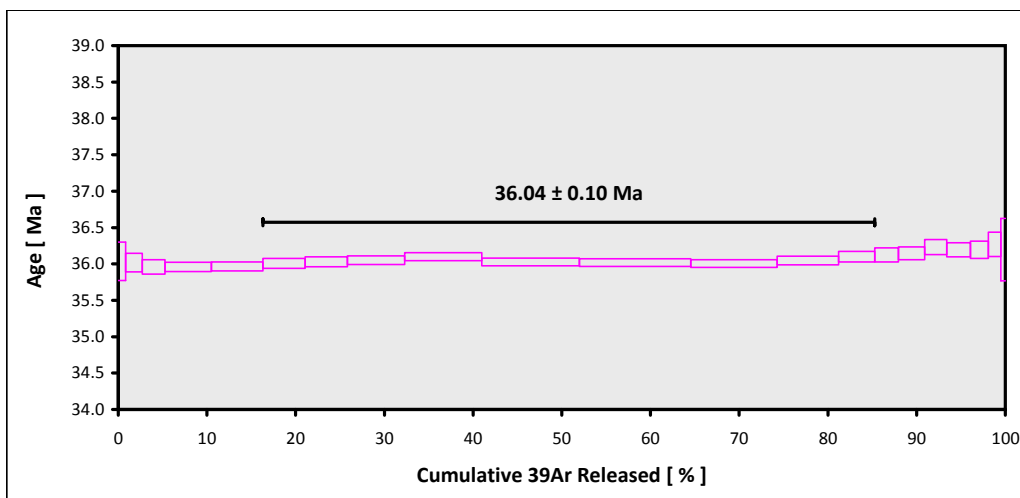


EXP#16D13537 > MV1203-D25-06 > Plagioclase > MV1203 (13-INT-04)
WALVIS RIDGE > GABRIEL GUYOT
15-OSU-07 (7B12-15) > Incremental Heating > Susan Schnur

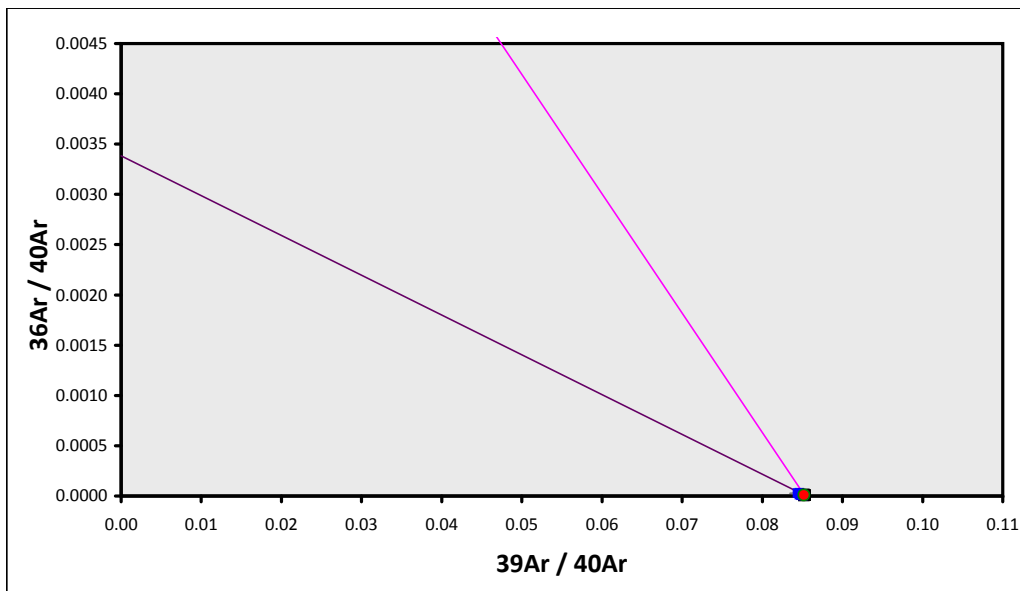
Information on Analysis and Constants Used in Calculations

Project = **MV1203 (13-INT-04)**
 Sample = **MV1203-D25-06**
 Material = **Plagioclase**
 Location = **Gabriel Guyot**
 Region = **Walvis Ridge**
 Analyst = **Susan Schnur**
 Irradiation = **15-OSU-07 (7B12-15)**
 Position = **X: 0 | Y: 0 | Z/H: 21.9 mm**
 FCT-NM Age = **28.201 ± 0.023 Ma**
 FCT-NM Reference = **Kuiper et al (2008)**
 FCT-NM 40Ar/39Ar Ratio = **9.13491 ± 0.01288**
 FCT-NM J-value = **0.00172059 ± 0.00000243**
 Air Shot 40Ar/36Ar = **304.4790 ± 0.4171**
 Air Shot MDF = **0.99261804 ± 0.00066505 (LIN)**
 Experiment Type = **Incremental Heating**
 Extraction Method = **Bulk Laser Heating**
 Heating = **77 sec**
 Isolation = **1.50 min**
 Instrument = **ARGUS-VI-D**
 Preferred Age = **Plateau Age**
 Age Classification = **Eruption Age**
 IGSN = **IESRS0084**
 Rock Class = **Igneous>Volcanic>Mafic**
 Lithology = **Trachyte**
 Lat-Lon = **35°12.6'S - 4°55.6'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) = **0.0006756 ± 0.0000089**
 Production 38/37(ca) = **0.0000718 ± 0.0000092**
 Production 36/37(ca) = **0.0002663 ± 0.0000004**
 Production 40/39(k) = **0.003823 ± 0.000102**
 Production 38/39(k) = **0.012031 ± 0.000019**
 Production 36/38(cl) = **262.80 ± 1.71**
 Scaling Ratio K/Ca = **0.430**
 Abundance Ratio 40K/K = **1.1700 ± 0.0100 E-04**
 Atomic Weight K = **39.0983 ± 0.0001 g**

Results	40(a)/36(a) ± 2σ	40(r)/39(k) ± 2σ	Age ± 2σ (Ma)	MSWD	39Ar(k) (% ,n)	K/Ca ± 2σ
Age Plateau		11.69980 ± 0.00758 ± 0.06%	36.04 ± 0.10 ± 0.29%	1.38 20%	68.99 9	0.227 ± 0.001
			Full External Error ± 0.82 Analytical Error ± 0.02	2.00 1.1749	2σ Confidence Limit Error Magnification	
Total Fusion Age		11.70272 ± 0.00542 ± 0.05%	36.05 ± 0.10 ± 0.28%		21	0.225 ± 0.000
			Full External Error ± 0.82 Analytical Error ± 0.02			
Normal Isochron	18.71 ± 173.31 #####	11.72713 ± 0.01759 ± 0.15%	36.12 ± 0.11 ± 0.32%	1.00 43%	68.99 9	
			Full External Error ± 0.82 Analytical Error ± 0.05	2.07 1.0000	2σ Confidence Limit Error Magnification	
Inverse Isochron Clustered Points	98.74 ± 72.90 ± 73.83%	11.71843 ± 0.01756 ± 0.15%	36.10 ± 0.11 ± 0.32%	0.87 53%	68.99 9	
			Full External Error ± 0.82 Analytical Error ± 0.05	2.07 1.0000	2σ Confidence Limit Error Magnification	0% Spreading Factor



Good plateau



**EXP#16D14713 > MV1203-D39-01A (LIGHT) > Groundmass > MV1203 (13-INT-04)
 WALVIS RIDGE > RISSO SEAMOUNT
 15-OSU-07 (7B19-15) > Incremental Heating > Susan Schnur**

**Information on Analysis
 and Constants Used in Calculations**

Project = **MV1203 (13-INT-04)**
 Sample = **MV1203-D39-01A (LIGHT)**
 Material = **Groundmass**
 Location = **Risso Seamount**
 Region = **Walvis Ridge**
 Analyst = **Susan Schnur**
 Irradiation = **15-OSU-07 (7B19-15)**
 Position = **X: 0 | Y: 0 | Z/H: 32.85 mm**
 FCT-NM Age = **28.201 ± 0.023 Ma**
 FCT-NM Reference = **Kuiper et al (2008)**
 FCT-NM 40Ar/39Ar Ratio = **9.34849 ± 0.01290**
 FCT-NM J-value = **0.00168128 ± 0.00000232**
 Air Shot 40Ar/36Ar = **304.3840 ± 0.4870**
 Air Shot MDF = **0.99269387 ± 0.00069491 (LIN)**
 Experiment Type = **Incremental Heating**
 Extraction Method = **Bulk Laser Heating**
 Heating = **77 sec**
 Isolation = **3.00 min**
 Instrument = **ARGUS-VI-D**
 Preferred Age = **Undefined**
 Age Classification = **Undefined**
 IGSN = **IESRS0085**
 Rock Class = **Igneous>Volcanic>Mafic**
 Lithology = **Tephrite**
 Lat-Lon = **38°15.5'S - 8°11.3'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) = **0.0006756 ± 0.0000089**
 Production 38/37(ca) = **0.0000718 ± 0.0000092**
 Production 36/37(ca) = **0.0002663 ± 0.0000004**
 Production 40/39(k) = **0.003823 ± 0.000102**
 Production 38/39(k) = **0.012031 ± 0.000019**
 Production 36/38(cl) = **262.80 ± 1.71**
 Scaling Ratio K/Ca = **0.430**
 Abundance Ratio 40K/K = **1.1700 ± 0.0100 E-04**
 Atomic Weight K = **39.0983 ± 0.0001 g**

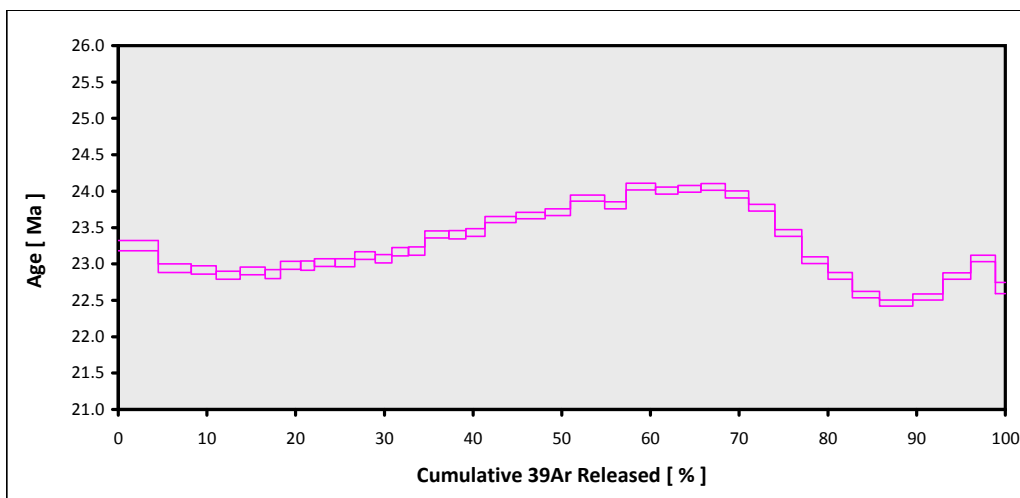
Results	40(a)/36(a) ± 2σ	40(r)/39(k) ± 2σ	Age ± 2σ (Ma)	MSWD	39Ar(k) (%n)	K/Ca ± 2σ
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Age Plateau
 Cannot Calculate

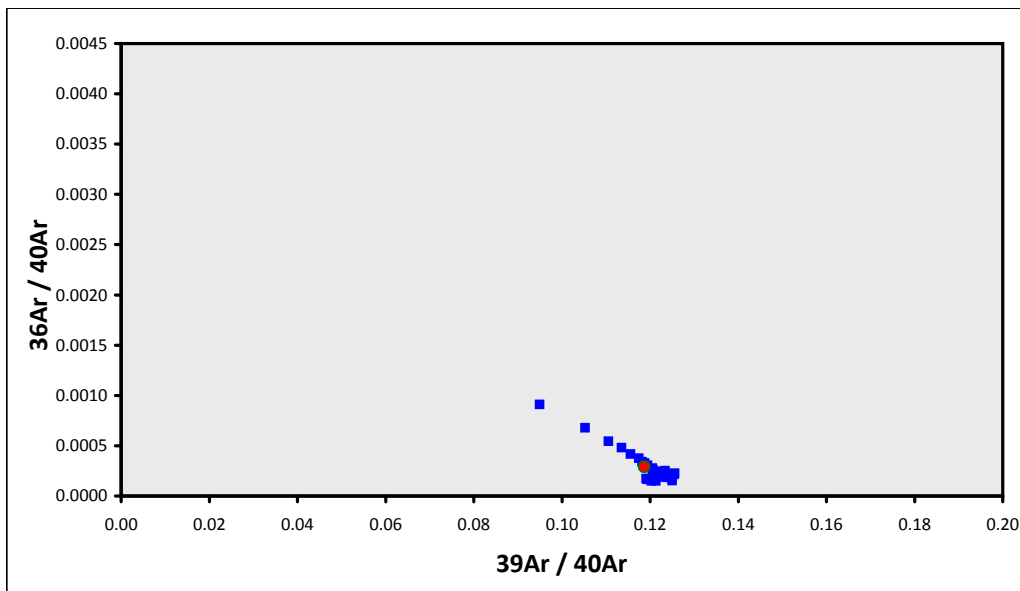
Total Fusion Age	7.70426 ± 0.00286 ± 0.04%	23.27 ± 0.06 ± 0.28%	37	0.329 ± 0.001
		Full External Error ± 0.53		
		Analytical Error ± 0.01		

Normal Isochron
 Cannot Calculate

Inverse Isochron
 Cannot Calculate



Steps form wavy shape, low-T steps yield a very small plateau.



EXP#16D14767 > MV1203-D25-06 > Groundmass > MV1203 (13-INT-04)
WALVIS RIDGE > GABRIEL GUYOT
15-OSU-07 (7B11-15) > Incremental Heating > Susan Schnur

**Information on Analysis
 and Constants Used in Calculations**

Project = **MV1203 (13-INT-04)**
 Sample = **MV1203-D25-06**
 Material = **Groundmass**
 Location = **Gabriel Guyot**
 Region = **Walvis Ridge**
 Analyst = **Susan Schnur**
 Irradiation = **15-OSU-07 (7B11-15)**
 Position = **X: 0 | Y: 0 | Z/H: 19.17 mm**
 FCT-NM Age = **28.201 ± 0.023 Ma**
 FCT-NM Reference = **Kuiper et al (2008)**
 FCT-NM 40Ar/39Ar Ratio = **9.09092 ± 0.01291**
 FCT-NM J-value = **0.00172891 ± 0.00000246**
 Air Shot 40Ar/36Ar = **304.3630 ± 0.4931**
 Air Shot MDF = **0.99271063 ± 0.00069769 (LIN)**
 Experiment Type = **Incremental Heating**
 Extraction Method = **Bulk Laser Heating**
 Heating = **77 sec**
 Isolation = **3.00 min**
 Instrument = **ARGUS-VI-D**
 Preferred Age = **Undefined**
 Age Classification = **Undefined**
 IGSN = **IESRS0086**
 Rock Class = **Igneous>Volcanic>Mafic**
 Lithology = **Trachyte**
 Lat-Lon = **35°12.6'S - 4°55.6'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) = **0.0006756 ± 0.0000089**
 Production 38/37(ca) = **0.0000718 ± 0.0000092**
 Production 36/37(ca) = **0.0002663 ± 0.0000004**
 Production 40/39(k) = **0.003823 ± 0.000102**
 Production 38/39(k) = **0.012031 ± 0.000019**
 Production 36/38(cl) = **262.80 ± 1.71**
 Scaling Ratio K/Ca = **0.430**
 Abundance Ratio 40K/K = **1.1700 ± 0.0100 E-04**
 Atomic Weight K = **39.0983 ± 0.0001 g**

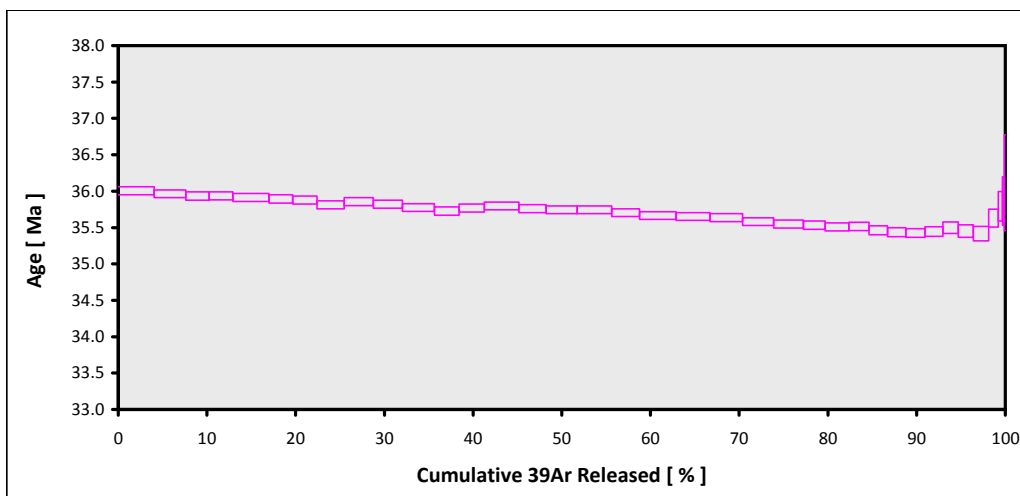
Results	40(a)/36(a) ± 2σ	40(r)/39(k) ± 2σ	Age ± 2σ (Ma)	MSWD	39Ar(k) (% ,n)	K/Ca ± 2σ
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Age Plateau
 Cannot Calculate

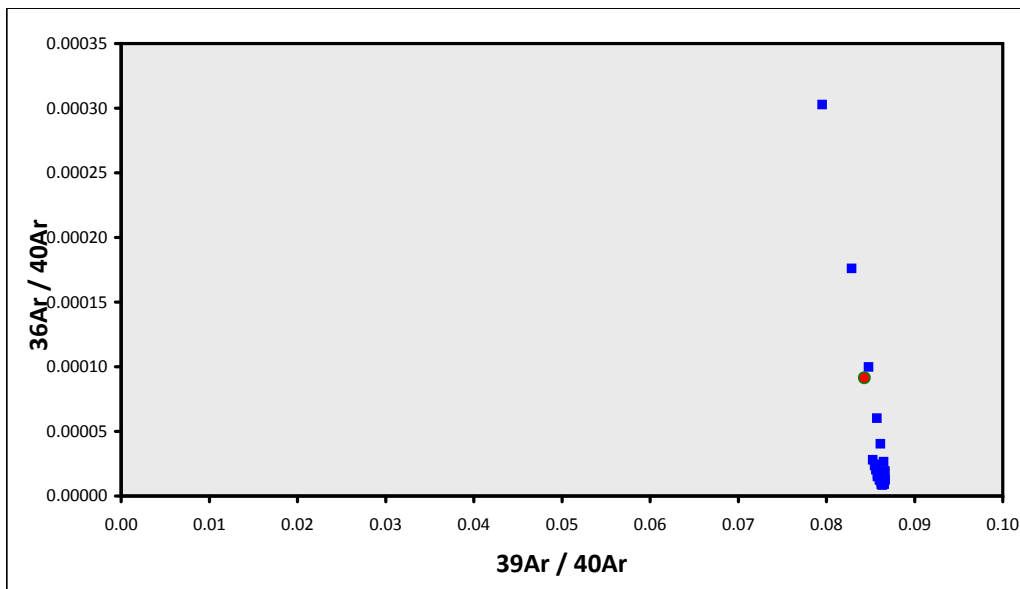
Total Fusion Age	11.53816 ± 0.00328 ± 0.03%	35.72 ± 0.10 ± 0.28%	37		3.92 ± 0.04
		Full External Error ± 0.81			Analytical Error ± 0.01

Normal Isochron
 Cannot Calculate

Inverse Isochron
 Cannot Calculate



Gently downward sloping pattern, strong recoil effect.

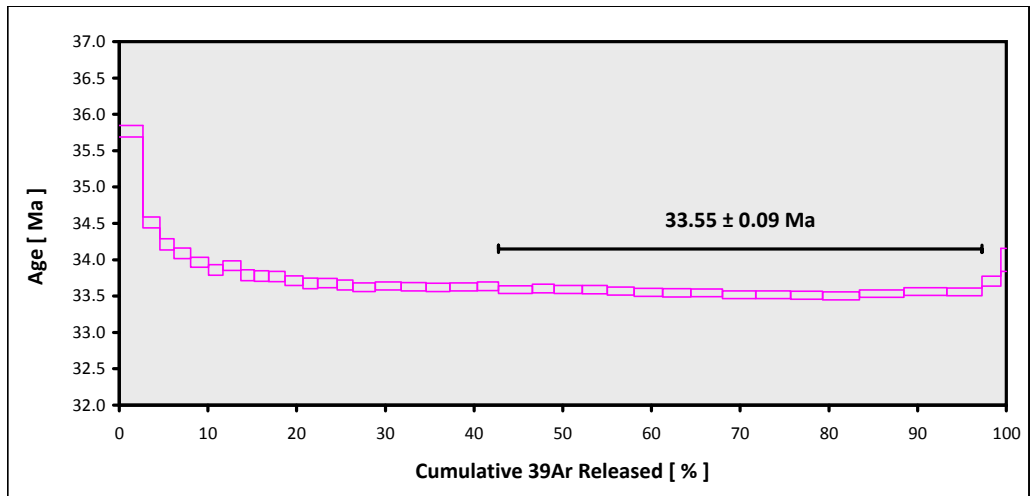


EXP#16D14821 > MV1203-D27-08 > Groundmass > MV1203 (13-INT-04)
WALVIS RIDGE > RIGHT GUYOT
15-OSU-07 (7B15-15) > Incremental Heating > Susan Schnur

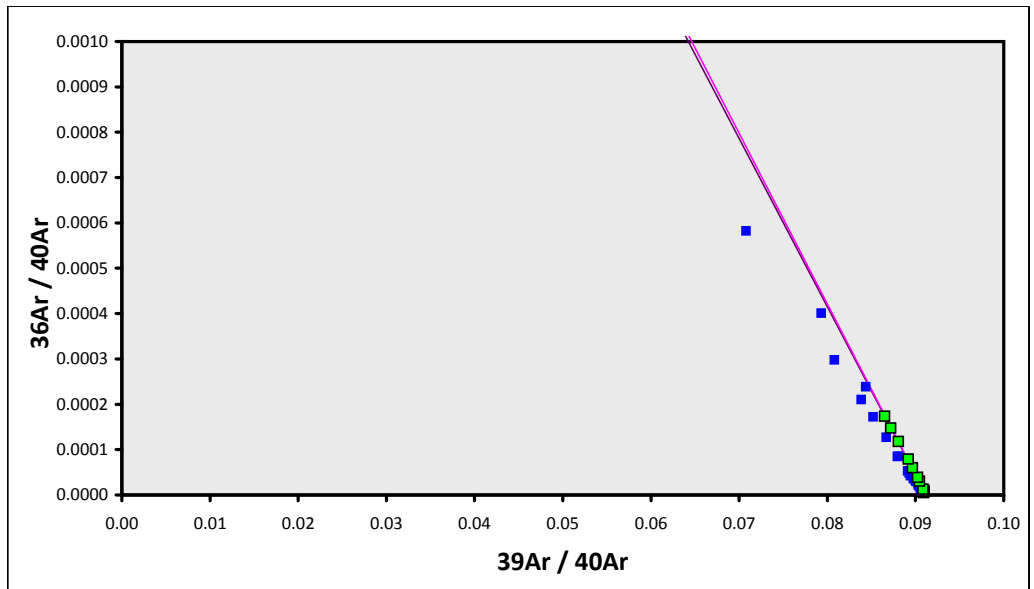
**Information on Analysis
 and Constants Used in Calculations**

Project = **MV1203 (13-INT-04)**
 Sample = **MV1203-D27-08**
 Material = **Groundmass**
 Location = **Right Guyot**
 Region = **Walvis Ridge**
 Analyst = **Susan Schnur**
 Irradiation = **15-OSU-07 (7B15-15)**
 Position = **X: 0 | Y: 0 | Z/H: 25.8 mm**
 FCT-NM Age = **28.201 ± 0.023 Ma**
 FCT-NM Reference = **Kuiper et al (2008)**
 FCT-NM 40Ar/39Ar Ratio = **9.20416 ± 0.01289**
 FCT-NM J-value = **0.00170764 ± 0.00000239**
 Air Shot 40Ar/36Ar = **304.3890 ± 0.4901**
 Air Shot MDF = **0.99268987 ± 0.00069627 (LIN)**
 Experiment Type = **Incremental Heating**
 Extraction Method = **Bulk Laser Heating**
 Heating = **77 sec**
 Isolation = **3.00 min**
 Instrument = **ARGUS-VI-D**
 Preferred Age = **Plateau Age**
 Age Classification = **Eruption Age**
 IGSN = **IESRS0087**
 Rock Class = **Igneous>Volcanic>Mafic**
 Lithology = **Trachyte**
 Lat-Lon = **35°36.4'S - 5°41.4'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) = **0.0006756 ± 0.0000089**
 Production 38/37(ca) = **0.0000718 ± 0.0000092**
 Production 36/37(ca) = **0.0002663 ± 0.0000004**
 Production 40/39(k) = **0.003823 ± 0.000102**
 Production 38/39(k) = **0.012031 ± 0.000019**
 Production 36/38(cl) = **262.80 ± 1.71**
 Scaling Ratio K/Ca = **0.430**
 Abundance Ratio 40K/K = **1.1700 ± 0.0100 E-04**
 Atomic Weight K = **39.0983 ± 0.0001 g**

Results	40(a)/36(a) ± 2σ	40(r)/39(k) ± 2σ	Age ± 2σ (Ma)	MSWD	39Ar(k) (% _n)	K/Ca ± 2σ
Age Plateau		10.96668 ± 0.00535 ± 0.05%	33.55 ± 0.09 ± 0.28%	1.33 18%	54.52 15	61.4 ± 17.4
			Full External Error ± 0.76 Analytical Error ± 0.02	1.76 1.1522	2σ Confidence Limit Error Magnification	
Total Fusion Age		11.01877 ± 0.00337 ± 0.03%	33.71 ± 0.09 ± 0.28%		37	57.2 ± 11.4
			Full External Error ± 0.76 Analytical Error ± 0.01			
Normal Isochron	283.10 ± 10.84	10.97943 ± 0.00915 ± 0.08%	33.59 ± 0.10 ± 0.29%	2.21 1%	54.52 15	
Error Chron	± 3.83%		Full External Error ± 0.76 Analytical Error ± 0.03	1.78 1.4872	2σ Confidence Limit Error Magnification	
Inverse Isochron	291.25 ± 8.39	10.96909 ± 0.00711 ± 0.06%	33.56 ± 0.10 ± 0.28%	1.33 19%	54.52 15	
Clustered Points	± 2.88%		Full External Error ± 0.76 Analytical Error ± 0.02	1.78 1.1512	2σ Confidence Limit Error Magnification	5% Spreading Factor



Low-T shows recoil effect but high-T steps yield a decent plateau.



**EXP#16D14902 > MV1203-D30-01 > Groundmass > MV1203 (13-INT-04)
 WALVIS RIDGE > HAVISIDE GUYOT
 15-OSU-07 (7B18-15) > Incremental Heating > Susan Schnur**

**Information on Analysis
 and Constants Used in Calculations**

Project = **MV1203 (13-INT-04)**
 Sample = **MV1203-D30-01**
 Material = **Groundmass**
 Location = **Haviside Guyot**
 Region = **Walvis Ridge**
 Analyst = **Susan Schnur**
 Irradiation = **15-OSU-07 (7B18-15)**
 Position = **X: 0 | Y: 0 | Z/H: 30.39 mm**
 FCT-NM Age = **28.201 ± 0.023 Ma**
 FCT-NM Reference = **Kuiper et al (2008)**
 FCT-NM 40Ar/39Ar Ratio = **9.29533 ± 0.01283**
 FCT-NM J-value = **0.00169089 ± 0.00000233**
 Air Shot 40Ar/36Ar = **304.3680 ± 0.4900**
 Air Shot MDF = **0.99270664 ± 0.00069631 (LIN)**
 Experiment Type = **Incremental Heating**
 Extraction Method = **Bulk Laser Heating**
 Heating = **77 sec**
 Isolation = **3.00 min**
 Instrument = **ARGUS-VI-D**
 Preferred Age = **Undefined**
 Age Classification = **Undefined**
 IGSN = **IESRS0088**
 Rock Class = **Igneous>Volcanic>Mafic**
 Lithology = **Trachybasalt**
 Lat-Lon = **36°15.2'S - 7°19.3'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) = **0.0006756 ± 0.0000089**
 Production 38/37(ca) = **0.0000718 ± 0.0000092**
 Production 36/37(ca) = **0.0002663 ± 0.0000004**
 Production 40/39(k) = **0.003823 ± 0.000102**
 Production 38/39(k) = **0.012031 ± 0.000019**
 Production 36/38(cl) = **262.80 ± 1.71**
 Scaling Ratio K/Ca = **0.430**
 Abundance Ratio 40K/K = **1.1700 ± 0.0100 E-04**
 Atomic Weight K = **39.0983 ± 0.0001 g**

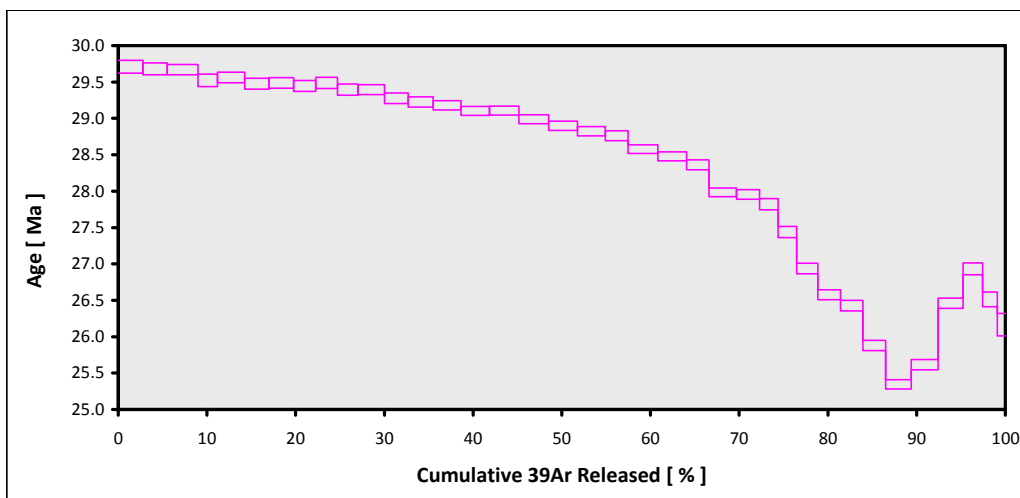
Results	40(a)/36(a) ± 2σ	40(r)/39(k) ± 2σ	Age ± 2σ (Ma)	MSWD	39Ar(k) (% _n)	K/Ca ± 2σ
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Age Plateau
 Cannot Calculate

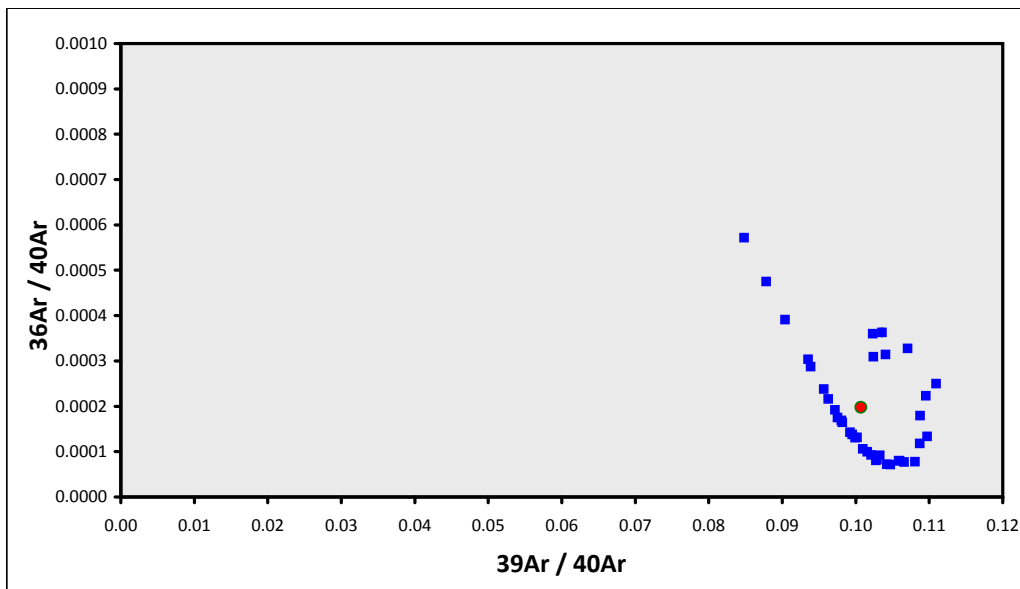
Total Fusion Age	9.34862 ± 0.00390 ± 0.04%	28.36 ± 0.08 ± 0.28%	37	0.296 ± 0.001
		Full External Error ± 0.64		
		Analytical Error ± 0.01		

Normal Isochron
 Cannot Calculate

Inverse Isochron
 Cannot Calculate



Plateau slopes downwards and has a strange older phase at highest T.

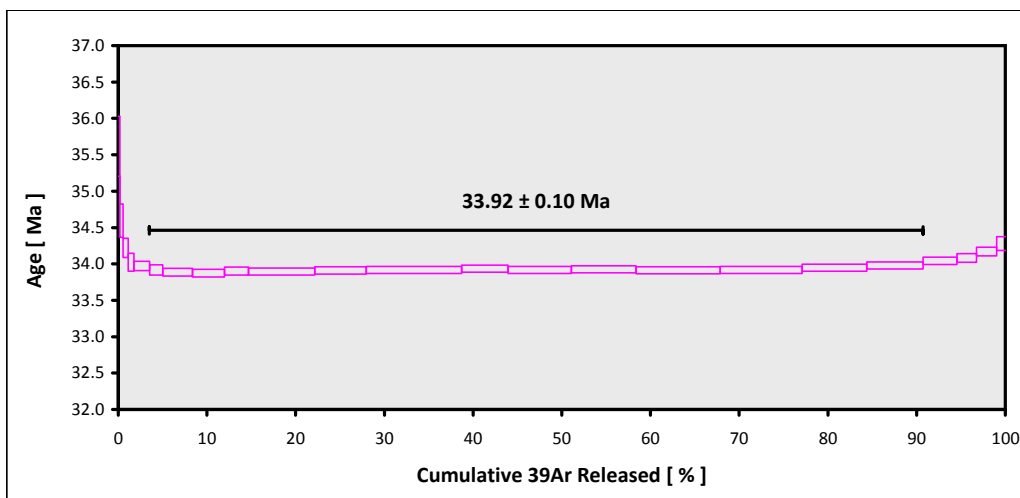


**EXP#16D14956 > MV1203-D27-01 > K-Feldspar > MV1203 (13-INT-04)
 WALVIS RIDGE > RIGHT GUYOT
 15-OSU-07 (7B14-15) > Incremental Heating > Susan Schnur**

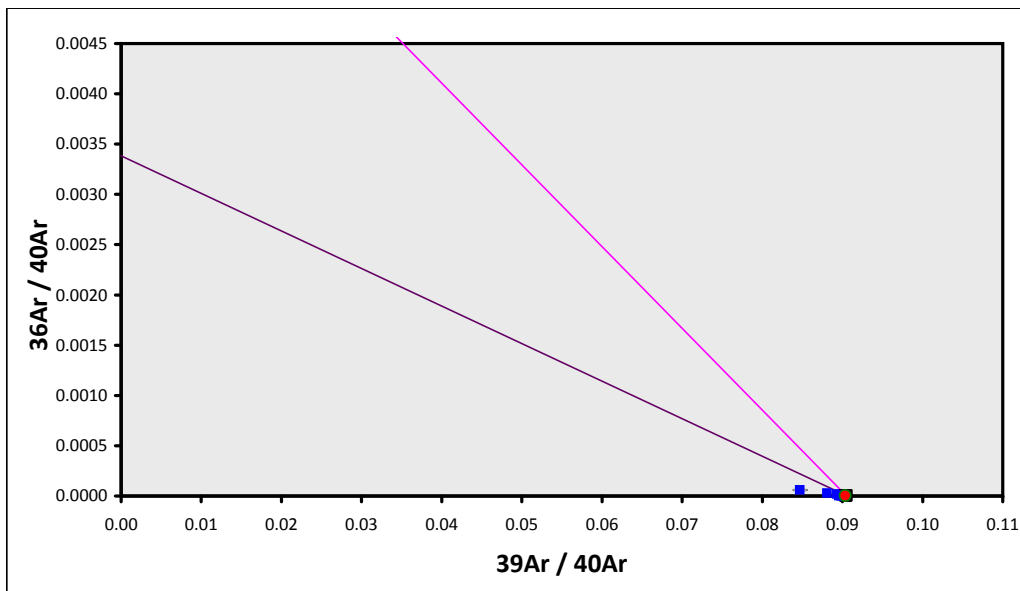
**Information on Analysis
 and Constants Used in Calculations**

Project = **MV1203 (13-INT-04)**
 Sample = **MV1203-D27-01**
 Material = **K-Feldspar**
 Location = **Right Guyot**
 Region = **Walvis Ridge**
 Analyst = **Susan Schnur**
 Irradiation = **15-OSU-07 (7B14-15)**
 Position = **X: 0 | Y: 0 | Z/H: 23.64 mm**
 FCT-NM Age = **28.201 ± 0.023 Ma**
 FCT-NM Reference = **Kuiper et al (2008)**
 FCT-NM 40Ar/39Ar Ratio = **9.16487 ± 0.01283**
 FCT-NM J-value = **0.00171496 ± 0.00000240**
 Air Shot 40Ar/36Ar = **304.3690 ± 0.4900**
 Air Shot MDF = **0.99270584 ± 0.00069631 (LIN)**
 Experiment Type = **Incremental Heating**
 Extraction Method = **Bulk Laser Heating**
 Heating = **77 sec**
 Isolation = **1.50 min**
 Instrument = **ARGUS-VI-D**
 Preferred Age = **Plateau Age**
 Age Classification = **Eruption Age**
 IGSN = **IESRS0089**
 Rock Class = **Igneous>Volcanic>Mafic**
 Lithology = **Trachyte**
 Lat-Lon = **35°36.4'S - 5°41.4'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) = **0.0006756 ± 0.0000089**
 Production 38/37(ca) = **0.0000718 ± 0.0000092**
 Production 36/37(ca) = **0.0002663 ± 0.0000004**
 Production 40/39(k) = **0.003823 ± 0.000102**
 Production 38/39(k) = **0.012031 ± 0.000019**
 Production 36/38(cl) = **262.80 ± 1.71**
 Scaling Ratio K/Ca = **0.430**
 Abundance Ratio 40K/K = **1.1700 ± 0.0100 E-04**
 Atomic Weight K = **39.0983 ± 0.0001 g**

Results	40(a)/36(a) ± 2σ	40(r)/39(k) ± 2σ	Age ± 2σ (Ma)	MSWD	39Ar(k) (%n)	K/Ca ± 2σ
Age Plateau		11.04029 ± 0.00460 ± 0.04%	33.92 ± 0.10 ± 0.28% Full External Error ± 0.77 Analytical Error ± 0.01	1.06 39%	87.21 14	64 ± 11
Total Fusion Age		11.04950 ± 0.00423 ± 0.04%	33.95 ± 0.10 ± 0.28% Full External Error ± 0.77 Analytical Error ± 0.01		23	69 ± 14
Normal Isochron	111.40 ± 257.66 #####	11.04980 ± 0.01400 ± 0.13%	33.95 ± 0.10 ± 0.30% Full External Error ± 0.77 Analytical Error ± 0.04	1.01 44%	87.21 14	2σ Confidence Limit Error Magnification
Inverse Isochron Clustered Points	135.90 ± 75.28 ± 55.39%	11.04850 ± 0.01404 ± 0.13%	33.94 ± 0.10 ± 0.30% Full External Error ± 0.77 Analytical Error ± 0.04	1.02 43%	87.21 14	2σ Confidence Limit Error Magnification Spreading Factor



Good plateau

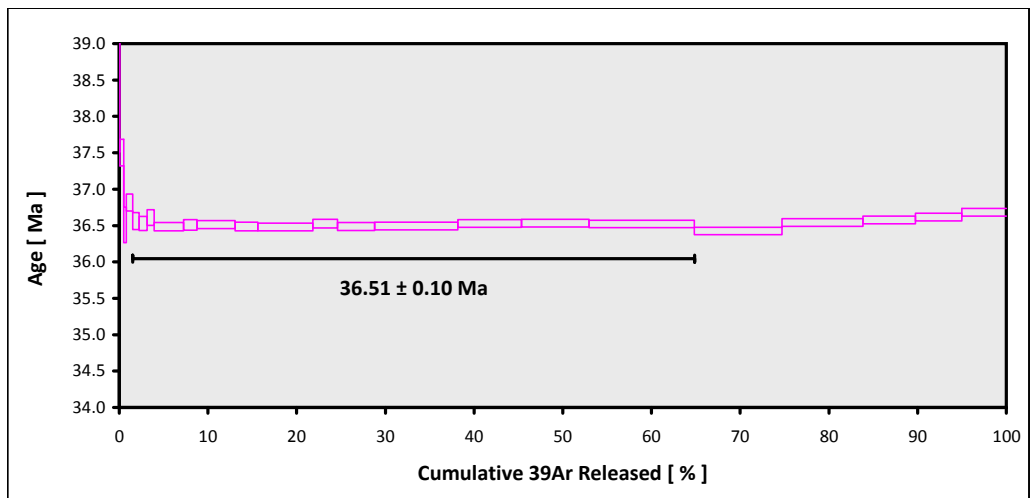


EXP#16D16095 > MV1203-D24-02 > K-Feldspar > MV1203 (13-INT-04)
WALVIS RIDGE > COLERIDGE GUYOT
15-OSU-07 (7B8-15) > Incremental Heating > Susan Schnur

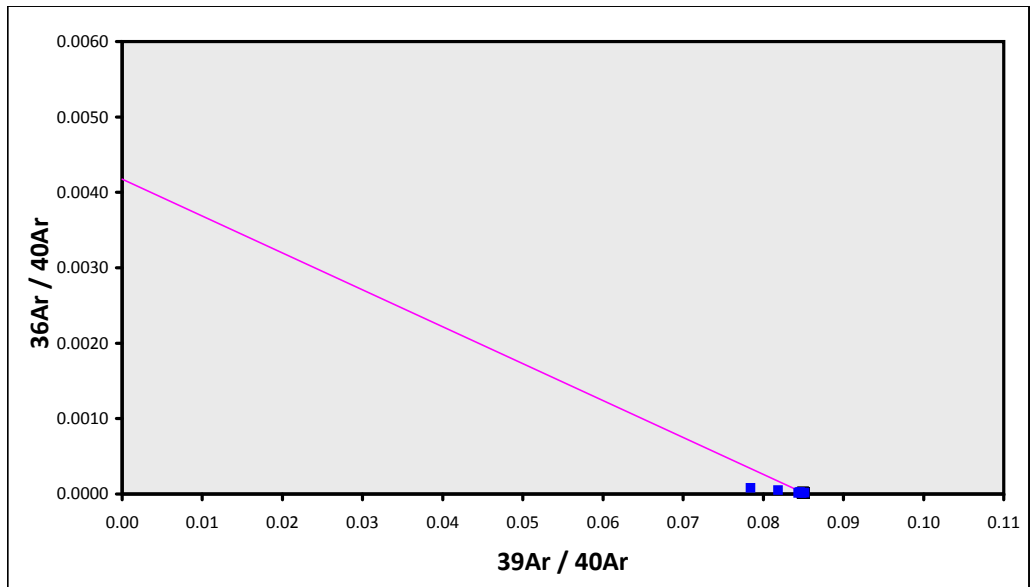
**Information on Analysis
 and Constants Used in Calculations**

Project = **MV1203 (13-INT-04)**
 Sample = **MV1203-D24-02**
 Material = **K-Feldspar**
 Location = **Coleridge Guyot**
 Region = **Walvis Ridge**
 Analyst = **Susan Schnur**
 Irradiation = **15-OSU-07 (7B8-15)**
 Position = **X: 0 | Y: 0 | Z/H: 14.5 mm**
 FCT-NM Age = **28.201 ± 0.023 Ma**
 FCT-NM Reference = **Kuiper et al (2008)**
 FCT-NM 40Ar/39Ar Ratio = **9.02424 ± 0.01290**
 FCT-NM J-value = **0.00174169 ± 0.00000249**
 Air Shot 40Ar/36Ar = **304.4970 ± 0.4872**
 Air Shot MDF = **0.99260368 ± 0.00069466 (LIN)**
 Experiment Type = **Incremental Heating**
 Extraction Method = **Bulk Laser Heating**
 Heating = **77 sec**
 Isolation = **1.50 min**
 Instrument = **ARGUS-VI-D**
 Preferred Age = **Plateau Age**
 Age Classification = **Eruption Age**
 IGSN = **IESRS0090**
 Rock Class = **Igneous>Volcanic>Mafic**
 Lithology = **Trachyte**
 Lat-Lon = **34°47.9'S - 5°03.8'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) = **0.0006756 ± 0.0000089**
 Production 38/37(ca) = **0.0000718 ± 0.0000092**
 Production 36/37(ca) = **0.0002663 ± 0.0000004**
 Production 40/39(k) = **0.003823 ± 0.000102**
 Production 38/39(k) = **0.012031 ± 0.000019**
 Production 36/38(cl) = **262.80 ± 1.71**
 Scaling Ratio K/Ca = **0.430**
 Abundance Ratio 40K/K = **1.1700 ± 0.0100 E-04**
 Atomic Weight K = **39.0983 ± 0.0001 g**

Results	40(a)/36(a) ± 2σ	40(r)/39(k) ± 2σ	Age ± 2σ (Ma)	MSWD	39Ar(k) (%n)	K/Ca ± 2σ
Age Plateau		11.71025 ± 0.00523 ± 0.04%	36.51 ± 0.10 ± 0.29% Full External Error ± 0.83 Analytical Error ± 0.02	0.77 69% 1.78 1.0000	63.33 14 2σ Confidence Limit Error Magnification	22.6 ± 1.5
Total Fusion Age		11.71705 ± 0.00458 ± 0.04%	36.53 ± 0.10 ± 0.29% Full External Error ± 0.83 Analytical Error ± 0.01		23	24.3 ± 1.7
Normal Isochron	28.11 ± 263.70 #####	11.76700 ± 0.04600 ± 0.39%	36.69 ± 0.18 ± 0.48% Full External Error ± 0.84 Analytical Error ± 0.14	1.21 27% 1.82 1.1001	63.33 14 2σ Confidence Limit Error Magnification	
Inverse Isochron Clustered Points	239.57 ± 130.50 ± 54.47%	11.71997 ± 0.04199 ± 0.36%	36.54 ± 0.17 ± 0.45% Full External Error ± 0.84 Analytical Error ± 0.13	0.82 63% 1.82 1.0000	63.33 14 2σ Confidence Limit Error Magnification 0% Spreading Factor	



High-T blip (excluded) but otherwise plateau is Good.

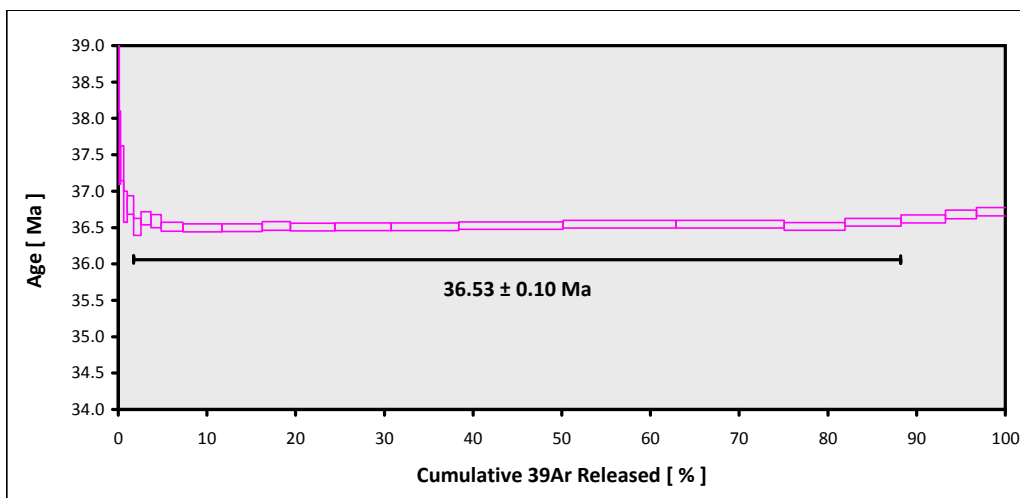


EXP#16D16131 > MV1203-D24-03 > K-Feldspar > MV1203 (13-INT-04)
WALVIS RIDGE > COLERIDGE GUYOT
15-OSU-07 (7B10-15) > Incremental Heating > Susan Schnur

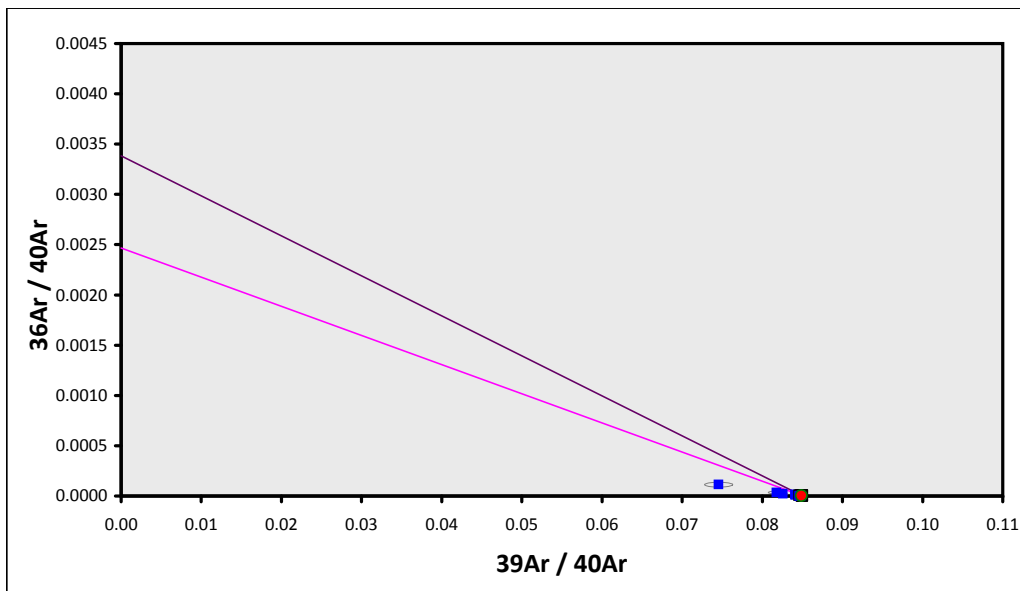
**Information on Analysis
 and Constants Used in Calculations**

Project = **MV1203 (13-INT-04)**
 Sample = **MV1203-D24-03**
 Material = **K-Feldspar**
 Location = **Coleridge Guyot**
 Region = **Walvis Ridge**
 Analyst = **Susan Schnur**
 Irradiation = **15-OSU-07 (7B10-15)**
 Position = **X: 0 | Y: 0 | Z/H: 16.83 mm**
 FCT-NM Age = **28.201 ± 0.023 Ma**
 FCT-NM Reference = **Kuiper et al (2008)**
 FCT-NM 40Ar/39Ar Ratio = **9.05616 ± 0.01286**
 FCT-NM J-value = **0.00173555 ± 0.00000246**
 Air Shot 40Ar/36Ar = **304.5130 ± 0.4872**
 Air Shot MDF = **0.99259092 ± 0.00069462 (LIN)**
 Experiment Type = **Incremental Heating**
 Extraction Method = **Bulk Laser Heating**
 Heating = **77 sec**
 Isolation = **1.50 min**
 Instrument = **ARGUS-VI-D**
 Preferred Age = **Plateau Age**
 Age Classification = **Eruption Age**
 IGSN = **IESRS0091**
 Rock Class = **Igneous>Volcanic>Mafic**
 Lithology = **Trachyte**
 Lat-Lon = **34°47.9'S - 5°03.8'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) = **0.0006756 ± 0.0000089**
 Production 38/37(ca) = **0.0000718 ± 0.0000092**
 Production 36/37(ca) = **0.0002663 ± 0.0000004**
 Production 40/39(k) = **0.003823 ± 0.000102**
 Production 38/39(k) = **0.012031 ± 0.000019**
 Production 36/38(cl) = **262.80 ± 1.71**
 Scaling Ratio K/Ca = **0.430**
 Abundance Ratio 40K/K = **1.1700 ± 0.0100 E-04**
 Atomic Weight K = **39.0983 ± 0.0001 g**

Results	40(a)/36(a) ± 2σ	40(r)/39(k) ± 2σ	Age ± 2σ (Ma)	MSWD	39Ar(k) (%n)	K/Ca ± 2σ
Age Plateau		11.75708 ± 0.00510 ± 0.04%	36.53 ± 0.10 ± 0.28% Full External Error ± 0.83 Analytical Error ± 0.02	1.09 36% 1.76 1.0432	86.49 15 2σ Confidence Limit Error Magnification	21.1 ± 1.7
Total Fusion Age		11.76661 ± 0.00480 ± 0.04%	36.56 ± 0.10 ± 0.28% Full External Error ± 0.83 Analytical Error ± 0.01		23	22.4 ± 2.4
Normal Isochron	259.11 ± 323.41 #####	11.75888 ± 0.01692 ± 0.14%	36.53 ± 0.12 ± 0.32% Full External Error ± 0.83 Analytical Error ± 0.05	1.08 37% 1.78 1.0393	86.49 15 2σ Confidence Limit Error Magnification	
Inverse Isochron Clustered Points	405.50 ± 193.66 ± 47.76%	11.75156 ± 0.01728 ± 0.15%	36.51 ± 0.12 ± 0.32% Full External Error ± 0.83 Analytical Error ± 0.05	1.13 32% 1.78 1.0645	86.49 15 2σ Confidence Limit Error Magnification 0% Spreading Factor	



Good plateau

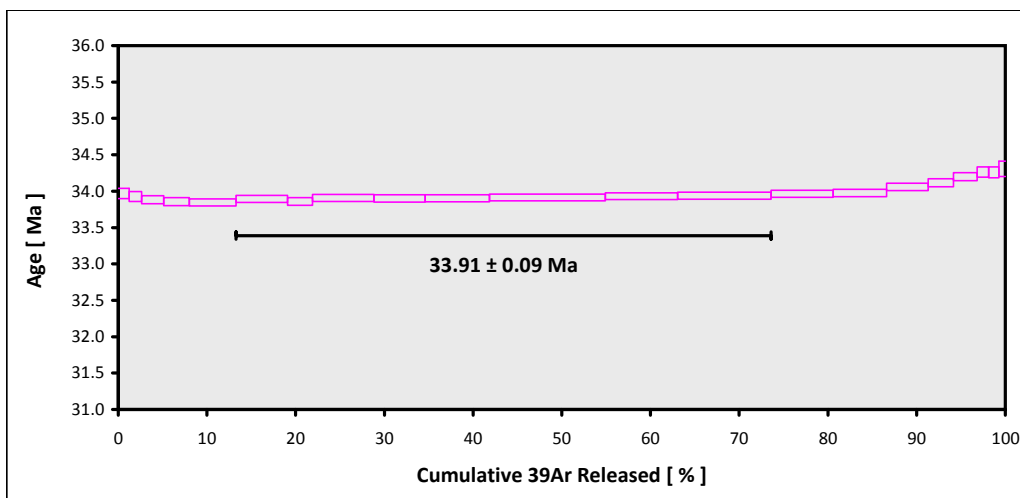


EXP#16D16167 > MV1203-D27-08 > K-Feldspar > MV1203 (13-INT-04)
WALVIS RIDGE > RIGHT GUYOT
15-OSU-07 (7B16-15) > Incremental Heating > Susan Schnur

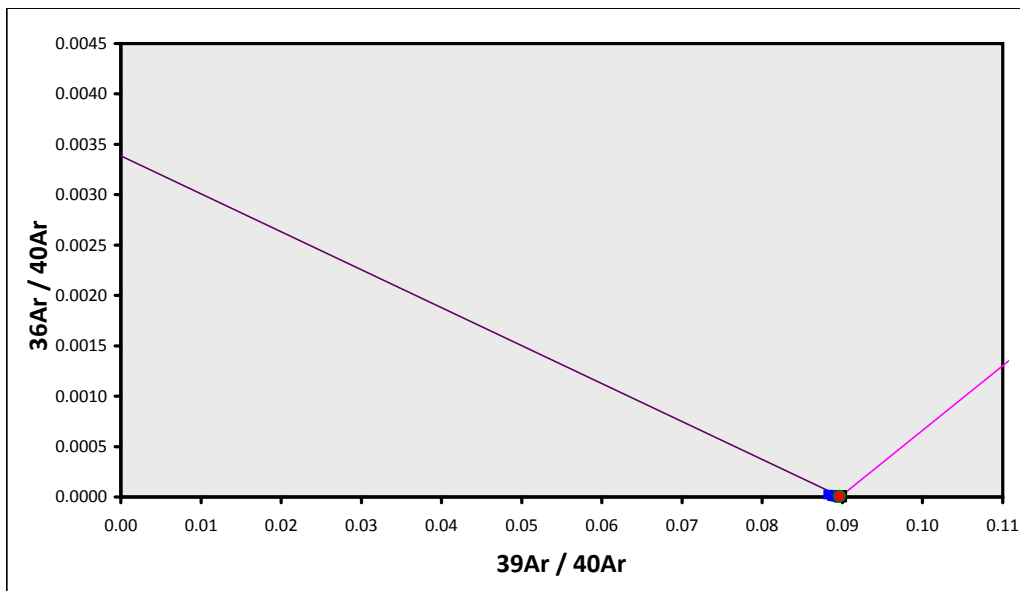
**Information on Analysis
 and Constants Used in Calculations**

Project = **MV1203 (13-INT-04)**
 Sample = **MV1203-D27-08**
 Material = **K-Feldspar**
 Location = **Right Guyot**
 Region = **Walvis Ridge**
 Analyst = **Susan Schnur**
 Irradiation = **15-OSU-07 (7B16-15)**
 Position = **X: 0 | Y: 0 | Z/H: 27.61 mm**
 FCT-NM Age = **28.201 ± 0.023 Ma**
 FCT-NM Reference = **Kuiper et al (2008)**
 FCT-NM 40Ar/39Ar Ratio = **9.23886 ± 0.01284**
 FCT-NM J-value = **0.00170123 ± 0.00000236**
 Air Shot 40Ar/36Ar = **304.5220 ± 0.4872**
 Air Shot MDF = **0.99258374 ± 0.00069460 (LIN)**
 Experiment Type = **Incremental Heating**
 Extraction Method = **Bulk Laser Heating**
 Heating = **77 sec**
 Isolation = **1.50 min**
 Instrument = **ARGUS-VI-D**
 Preferred Age = **Plateau Age**
 Age Classification = **Eruption Age**
 IGSN = **IESRS0092**
 Rock Class = **Igneous>Volcanic>Mafic**
 Lithology = **Trachyte**
 Lat-Lon = **35°36.4'S - 5°41.4'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) = **0.0006756 ± 0.0000089**
 Production 38/37(ca) = **0.0000718 ± 0.0000092**
 Production 36/37(ca) = **0.0002663 ± 0.0000004**
 Production 40/39(k) = **0.003823 ± 0.000102**
 Production 38/39(k) = **0.012031 ± 0.000019**
 Production 36/38(cl) = **262.80 ± 1.71**
 Scaling Ratio K/Ca = **0.430**
 Abundance Ratio 40K/K = **1.1700 ± 0.0100 E-04**
 Atomic Weight K = **39.0983 ± 0.0001 g**

Results	40(a)/36(a) ± 2σ	40(r)/39(k) ± 2σ	Age ± 2σ (Ma)	MSWD	39Ar(k) (% ,n)	K/Ca ± 2σ
Age Plateau		11.12555 ± 0.00571 ± 0.05%	33.91 ± 0.09 ± 0.28% Full External Error ± 0.77 Analytical Error ± 0.02	0.95 47% 2.07 1.0000	60.29 8 2σ Confidence Limit Error Magnification	64 ± 9
Total Fusion Age		11.13876 ± 0.00426 ± 0.04%	33.95 ± 0.09 ± 0.28% Full External Error ± 0.77 Analytical Error ± 0.01		21	64 ± 9
Normal Isochron	205.04 ± 468.05 #####	11.15144 ± 0.02466 ± 0.22%	33.98 ± 0.12 ± 0.35% Full External Error ± 0.77 Analytical Error ± 0.07	0.48 83% 2.15 1.0000	60.29 8 2σ Confidence Limit Error Magnification	
Inverse Isochron Clustered Points	173.90 ± 187.91 #####	11.14959 ± 0.02461 ± 0.22%	33.98 ± 0.12 ± 0.35% Full External Error ± 0.77 Analytical Error ± 0.07	0.49 81% 2.15 1.0000	60.29 8 2σ Confidence Limit Error Magnification 0% Spreading Factor	



Good plateau



**EXP#16D16227 > MV1203-D39-01A (DARK) > Groundmass > MV1203 (13-INT-04)
 WALVIS RIDGE > RISSO SEAMOUNT
 15-OSU-07 (7B20-15) > Incremental Heating > Susan Schnur**

**Information on Analysis
 and Constants Used in Calculations**

Project = MV1203 (13-INT-04)
 Sample = MV1203-D39-01A (DARK)
 Material = Groundmass
 Location = Risso Seamount
 Region = Walvis Ridge
 Analyst = Susan Schnur
 Irradiation = 15-OSU-07 (7B20-15)
 Position = X: 0 | Y: 0 | Z/H: 34.4 mm
 FCT-NM Age = 28.201 ± 0.023 Ma
 FCT-NM Reference = Kuiper et al (2008)
 FCT-NM 40Ar/39Ar Ratio = 9.38353 ± 0.01286
 FCT-NM J-value = 0.00167500 ± 0.00000229
 Air Shot 40Ar/36Ar = 304.5260 ± 0.4872
 Air Shot MDF = 0.99258055 ± 0.00069459 (LIN)
 Experiment Type = Incremental Heating
 Extraction Method = Bulk Laser Heating
 Heating = 77 sec
 Isolation = 3.00 min
 Instrument = ARGUS-VI-D
 Preferred Age = Undefined
 Age Classification = Undefined
 IGSN = IESRS0093
 Rock Class = Igneous>Volcanic>Mafic
 Lithology = Tephrite
 Lat-Lon = 38°15.5'S - 8°11.3'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) = 0.0006756 ± 0.0000089
 Production 38/37(ca) = 0.0000718 ± 0.0000092
 Production 36/37(ca) = 0.0002663 ± 0.0000004
 Production 40/39(k) = 0.003823 ± 0.000102
 Production 38/39(k) = 0.012031 ± 0.000019
 Production 36/38(cl) = 262.80 ± 1.71
 Scaling Ratio K/Ca = 0.430
 Abundance Ratio 40K/K = 1.1700 ± 0.0100 E-04
 Atomic Weight K = 39.0983 ± 0.0001 g

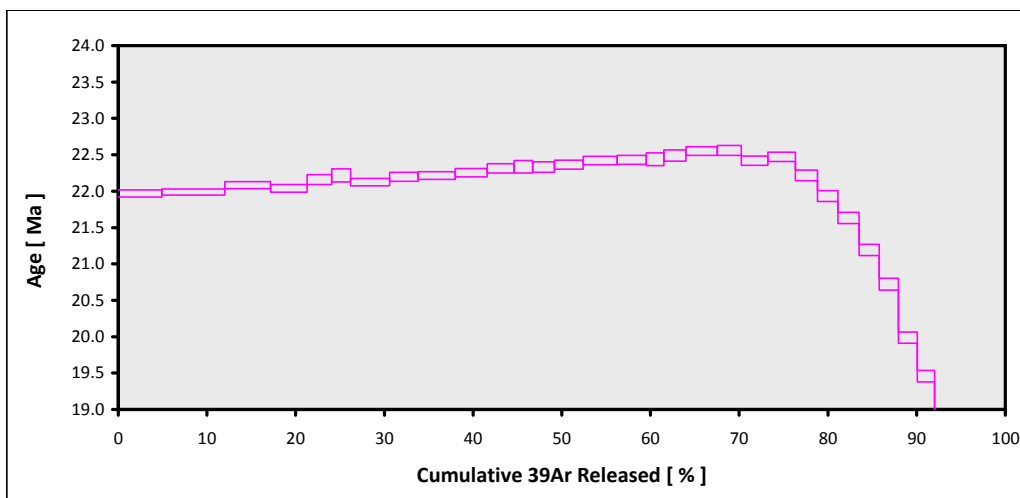
Results	40(a)/36(a) ± 2σ	40(r)/39(k) ± 2σ	Age ± 2σ (Ma)	MSWD	39Ar(k) (%n)	K/Ca ± 2σ
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Age Plateau
 Cannot Calculate

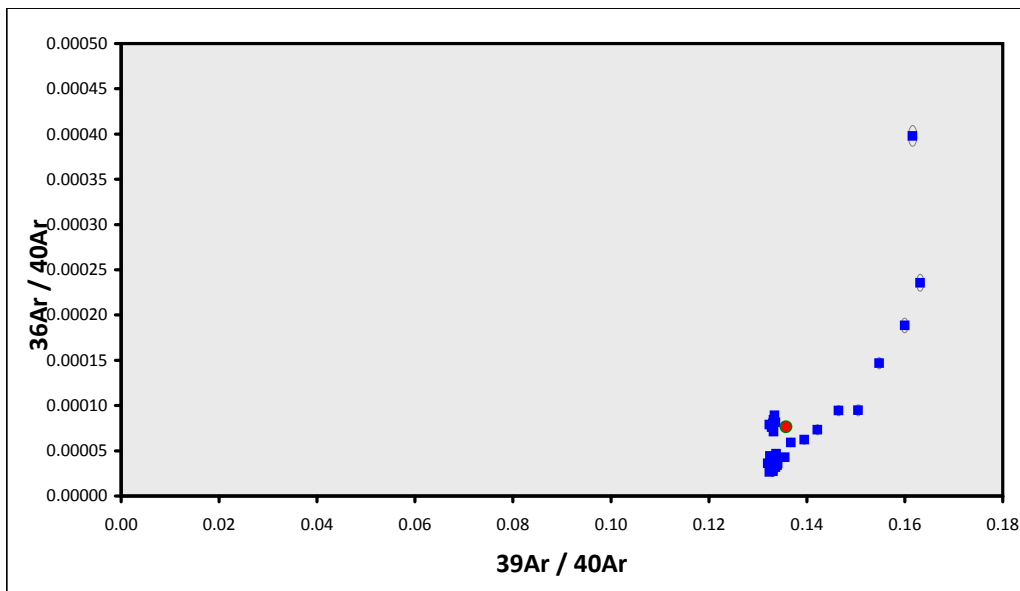
Total Fusion Age	7.19869 ± 0.00387 ± 0.05%	21.67 ± 0.06 ± 0.28%	37	0.452 ± 0.003
		Full External Error ± 0.49		
		Analytical Error ± 0.01		

Normal Isochron
 Cannot Calculate

Inverse Isochron
 Cannot Calculate



Upward slanting then drops off at high-T, no clear plateau.

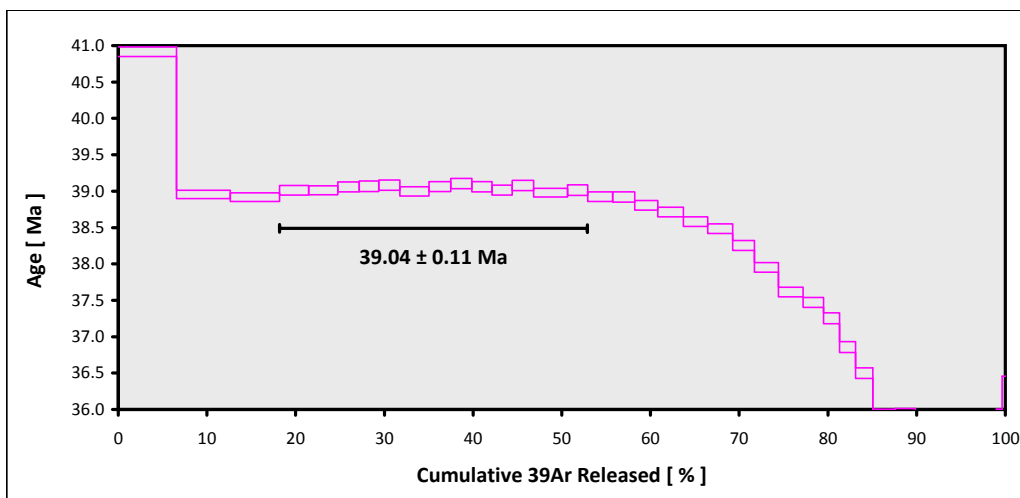


EXP#16D16281 > MV1203-D22-05 > Groundmass > MV1203 (13-INT-04)
WALVIS RIDGE > RACHEL SEAMOUNT
15-OSU-07 (7B2-15) > Incremental Heating > Susan Schnur

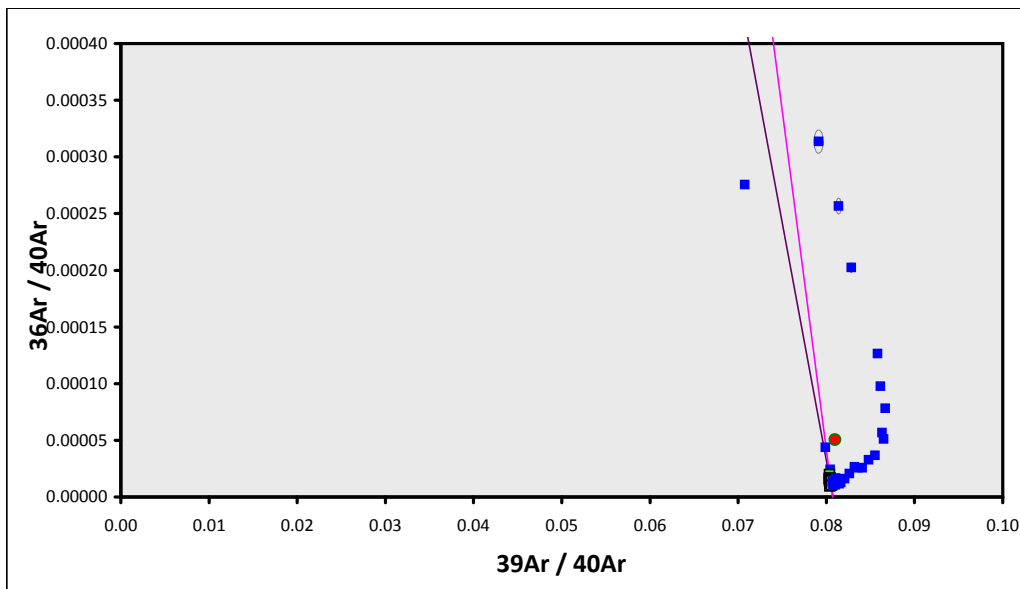
**Information on Analysis
 and Constants Used in Calculations**

Project = **MV1203 (13-INT-04)**
 Sample = **MV1203-D22-05**
 Material = **Groundmass**
 Location = **Rachel Seamount**
 Region = **Walvis Ridge**
 Analyst = **Susan Schnur**
 Irradiation = **15-OSU-07 (7B2-15)**
 Position = **X: 0 | Y: 0 | Z/H: 4.24 mm**
 FCT-NM Age = **28.201 ± 0.023 Ma**
 FCT-NM Reference = **Kuiper et al (2008)**
 FCT-NM 40Ar/39Ar Ratio = **8.91573 ± 0.01284**
 FCT-NM J-value = **0.00176288 ± 0.00000254**
 Air Shot 40Ar/36Ar = **304.5280 ± 0.4872**
 Air Shot MDF = **0.99257895 ± 0.00069459 (LIN)**
 Experiment Type = **Incremental Heating**
 Extraction Method = **Bulk Laser Heating**
 Heating = **77 sec**
 Isolation = **3.00 min**
 Instrument = **ARGUS-VI-D**
 Preferred Age = **Plateau Age**
 Age Classification = **Eruption Age**
 IGSN = **IESRS0094**
 Rock Class = **Igneous>Volcanic>Mafic**
 Lithology = **Tephrite**
 Lat-Lon = **33°18.2'S - 3°52.3'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) = **0.0006756 ± 0.0000089**
 Production 38/37(ca) = **0.0000718 ± 0.0000092**
 Production 36/37(ca) = **0.0002663 ± 0.0000004**
 Production 40/39(k) = **0.003823 ± 0.000102**
 Production 38/39(k) = **0.012031 ± 0.000019**
 Production 36/38(cl) = **262.80 ± 1.71**
 Scaling Ratio K/Ca = **0.430**
 Abundance Ratio 40K/K = **1.1700 ± 0.0100 E-04**
 Atomic Weight K = **39.0983 ± 0.0001 g**

Results	40(a)/36(a) ± 2σ	40(r)/39(k) ± 2σ	Age ± 2σ (Ma)	MSWD	39Ar(k) (% _n)	K/Ca ± 2σ
Age Plateau		12.37940 ± 0.00692 ± 0.06%	39.04 ± 0.11 ± 0.29% Full External Error ± 0.88 Analytical Error ± 0.02	1.32 20% 1.82 1.1501	34.74 13 2σ Confidence Limit Error Magnification	0.478 ± 0.035
Total Fusion Age		12.16135 ± 0.00374 ± 0.03%	38.36 ± 0.11 ± 0.29% Full External Error ± 0.87 Analytical Error ± 0.01		37	0.402 ± 0.001
Normal Isochron	170.86 ± 203.78 #####	12.40082 ± 0.03558 ± 0.29%	39.11 ± 0.16 ± 0.40% Full External Error ± 0.89 Analytical Error ± 0.11	1.37 18% 1.85 1.1702	34.74 13 2σ Confidence Limit Error Magnification	
Inverse Isochron Clustered Points	207.36 ± 108.19 ± 52.17%	12.39456 ± 0.03545 ± 0.29%	39.09 ± 0.16 ± 0.40% Full External Error ± 0.89 Analytical Error ± 0.11	1.36 19% 1.85 1.1650	34.74 13 2σ Confidence Limit Error Magnification 0% Spreading Factor	



Steps form wavy pattern, mid-T yields a slightly bumpy but acceptable plateau.

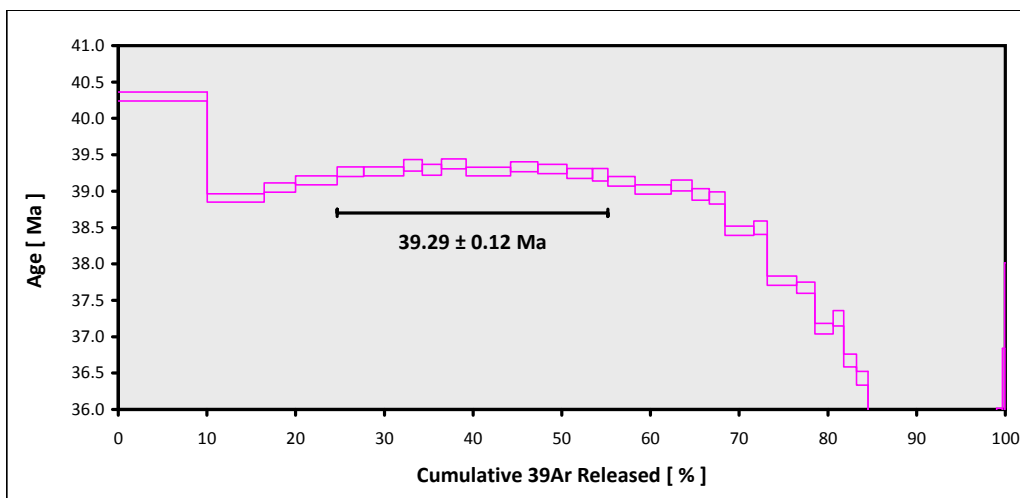


**EXP#16D16335 > MV1203-D22-10A > Groundmass > MV1203 (13-INT-04)
 WALVIS RIDGE > RACHEL SEAMOUNT
 15-OSU-07 (7B3-15) > Incremental Heating > Susan Schnur**

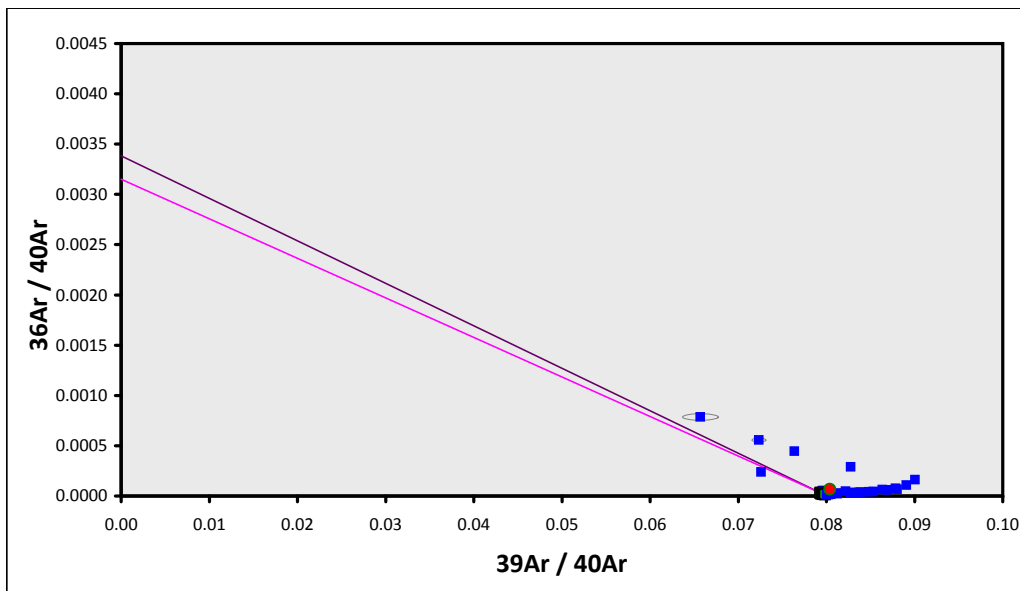
**Information on Analysis
 and Constants Used in Calculations**

Project = **MV1203 (13-INT-04)**
 Sample = **MV1203-D22-10A**
 Material = **Groundmass**
 Location = **Rachel Seamount**
 Region = **Walvis Ridge**
 Analyst = **Susan Schnur**
 Irradiation = **15-OSU-07 (7B3-15)**
 Position = **X: 0 | Y: 0 | Z/H: 6.36 mm**
 FCT-NM Age = **28.201 ± 0.023 Ma**
 FCT-NM Reference = **Kuiper et al (2008)**
 FCT-NM 40Ar/39Ar Ratio = **8.93387 ± 0.01286**
 FCT-NM J-value = **0.00175930 ± 0.00000253**
 Air Shot 40Ar/36Ar = **304.5230 ± 0.4842**
 Air Shot MDF = **0.99258294 ± 0.00069324 (LIN)**
 Experiment Type = **Incremental Heating**
 Extraction Method = **Bulk Laser Heating**
 Heating = **77 sec**
 Isolation = **3.00 min**
 Instrument = **ARGUS-VI-D**
 Preferred Age = **Plateau Age**
 Age Classification = **Eruption Age**
 IGSN = **IESRS0095**
 Rock Class = **Igneous>Volcanic>Mafic**
 Lithology = **Tephrite**
 Lat-Lon = **33°18.2'S - 3°52.3'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) = **0.0006756 ± 0.0000089**
 Production 38/37(ca) = **0.0000718 ± 0.0000092**
 Production 36/37(ca) = **0.0002663 ± 0.0000004**
 Production 40/39(k) = **0.003823 ± 0.000102**
 Production 38/39(k) = **0.012031 ± 0.000019**
 Production 36/38(cl) = **262.80 ± 1.71**
 Scaling Ratio K/Ca = **0.430**
 Abundance Ratio 40K/K = **1.1700 ± 0.0100 E-04**
 Atomic Weight K = **39.0983 ± 0.0001 g**

Results	40(a)/36(a) ± 2σ	40(r)/39(k) ± 2σ	Age ± 2σ (Ma)	MSWD	39Ar(k) (% _n)	K/Ca ± 2σ
Age Plateau		12.48628 ± 0.00927 ± 0.07%	39.29 ± 0.12 ± 0.29% Full External Error ± 0.89 Analytical Error ± 0.03	1.77 7%	30.51 10	0.409 ± 0.055
Total Fusion Age		12.18798 ± 0.00414 ± 0.03%	38.36 ± 0.11 ± 0.29% Full External Error ± 0.87 Analytical Error ± 0.01		37	0.363 ± 0.001
Normal Isochron	354.69 ± 127.91 ± 36.06%	12.46903 ± 0.03602 ± 0.29%	39.24 ± 0.16 ± 0.40% Full External Error ± 0.90 Analytical Error ± 0.11	2.02 4%	30.51 10	
Error Chron				2.00 1.4221	2σ Confidence Limit Error Magnification	
Inverse Isochron	317.34 ± 110.91 ± 34.95%	12.48042 ± 0.03529 ± 0.28%	39.28 ± 0.16 ± 0.40% Full External Error ± 0.90 Analytical Error ± 0.11	1.96 5%	30.51 10	
Clustered Points				2.00 1.4003	2σ Confidence Limit Error Magnification	
				1%	Spreading Factor	



Steps form wavy pattern, mid-T yields a slightly bumpy but acceptable plateau.



EXP#16D16416 > MV1203-D23-01 > Groundmass > MV1203 (13-INT-04)
WALVIS RIDGE > WUST GUYOT
15-OSU-07 (7B4-15) > Incremental Heating > Susan Schnur

**Information on Analysis
 and Constants Used in Calculations**

Project = **MV1203 (13-INT-04)**
 Sample = **MV1203-D23-01**
 Material = **Groundmass**
 Location = **Wust Guyot**
 Region = **Walvis Ridge**
 Analyst = **Susan Schnur**
 Irradiation = **15-OSU-07 (7B4-15)**
 Position = **X: 0 | Y: 0 | Z/H: 8.5 mm**
 FCT-NM Age = **28.201 ± 0.023 Ma**
 FCT-NM Reference = **Kuiper et al (2008)**
 FCT-NM 40Ar/39Ar Ratio = **8.95445 ± 0.01289**
 FCT-NM J-value = **0.00175526 ± 0.00000253**
 Air Shot 40Ar/36Ar = **304.5290 ± 0.4842**
 Air Shot MDF = **0.99257815 ± 0.00069323 (LIN)**
 Experiment Type = **Incremental Heating**
 Extraction Method = **Bulk Laser Heating**
 Heating = **77 sec**
 Isolation = **3.00 min**
 Instrument = **ARGUS-VI-D**
 Preferred Age = **Undefined**
 Age Classification = **Undefined**
 IGSN = **IESRS0096**
 Rock Class = **Igneous>Volcanic>Mafic**
 Lithology = **Basalt**
 Lat-Lon = **34°13.4'S - 3°46.2'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) = **0.0006756 ± 0.0000089**
 Production 38/37(ca) = **0.0000718 ± 0.0000092**
 Production 36/37(ca) = **0.0002663 ± 0.0000004**
 Production 40/39(k) = **0.003823 ± 0.000102**
 Production 38/39(k) = **0.012031 ± 0.000019**
 Production 36/38(cl) = **262.80 ± 1.71**
 Scaling Ratio K/Ca = **0.430**
 Abundance Ratio 40K/K = **1.1700 ± 0.0100 E-04**
 Atomic Weight K = **39.0983 ± 0.0001 g**

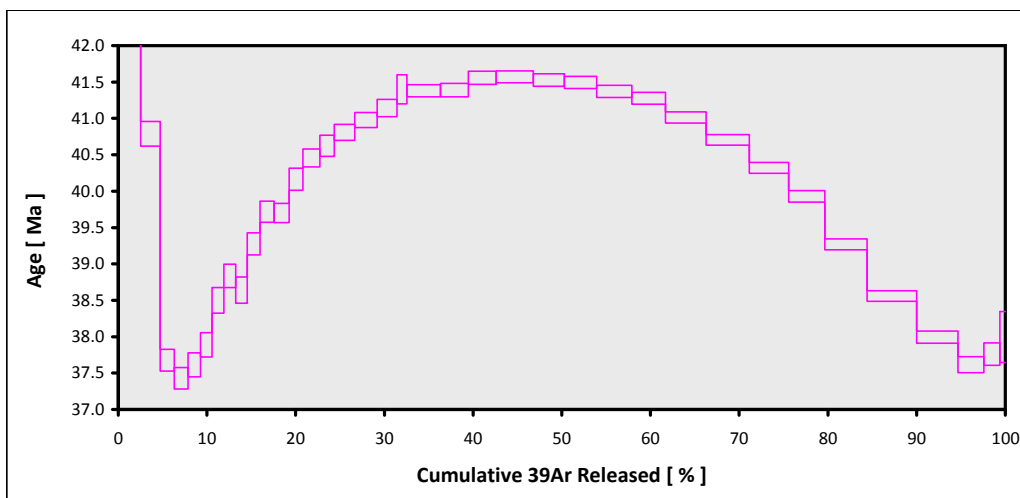
Results	40(a)/36(a) ± 2σ	40(r)/39(k) ± 2σ	Age ± 2σ (Ma)	MSWD	39Ar(k) (%n)	K/Ca ± 2σ
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Age Plateau
 Cannot Calculate

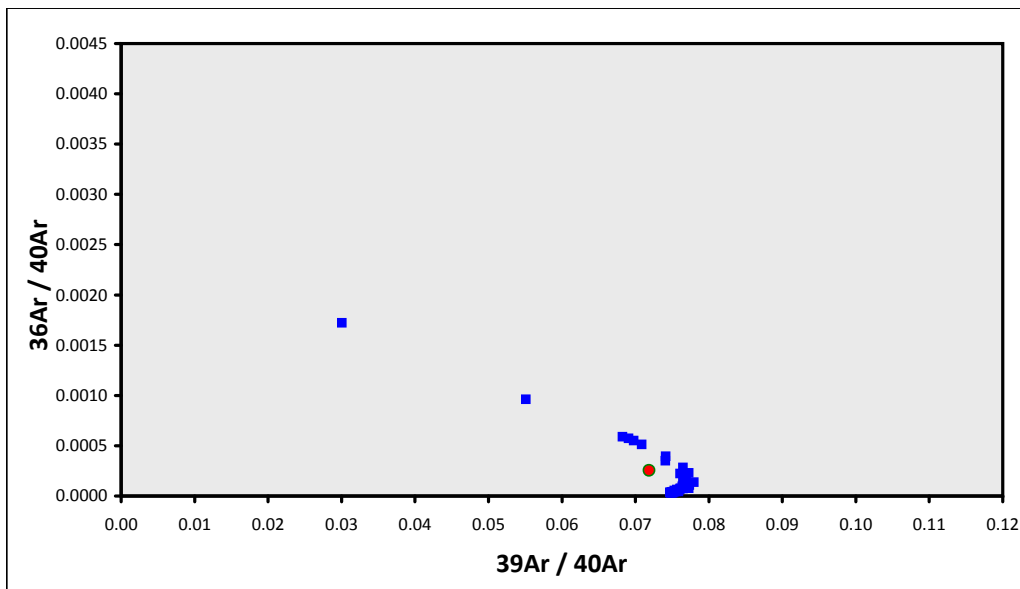
Total Fusion Age	12.86330 ± 0.00630 ± 0.05%	40.37 ± 0.12 ± 0.29%	37	0.250 ± 0.001
		Full External Error ± 0.91		
		Analytical Error ± 0.02		

Normal Isochron
 Cannot Calculate

Inverse Isochron
 Cannot Calculate



Excess argon, but small plateau that likely represents the correct age.



EXP#16D16470 > MV1203-D23-13A > Groundmass > MV1203 (13-INT-04)
WALVIS RIDGE > WUST GUYOT
15-OSU-07 (7B6-15) > Incremental Heating > Susan Schnur

**Information on Analysis
 and Constants Used in Calculations**

Project = **MV1203 (13-INT-04)**
 Sample = **MV1203-D23-13A**
 Material = **Groundmass**
 Location = **Wust Guyot**
 Region = **Walvis Ridge**
 Analyst = **Susan Schnur**
 Irradiation = **15-OSU-07 (7B6-15)**
 Position = **X: 0 | Y: 0 | Z/H: 11.11 mm**
 FCT-NM Age = **28.201 ± 0.023 Ma**
 FCT-NM Reference = **Kuiper et al (2008)**
 FCT-NM 40Ar/39Ar Ratio = **8.98261 ± 0.01285**
 FCT-NM J-value = **0.00174976 ± 0.00000250**
 Air Shot 40Ar/36Ar = **304.5310 ± 0.4842**
 Air Shot MDF = **0.99257656 ± 0.00069322 (LIN)**
 Experiment Type = **Incremental Heating**
 Extraction Method = **Bulk Laser Heating**
 Heating = **77 sec**
 Isolation = **3.00 min**
 Instrument = **ARGUS-VI-D**
 Preferred Age = **Undefined**
 Age Classification = **Undefined**
 IGSN = **IESRS0097**
 Rock Class = **Igneous>Volcanic>Mafic**
 Lithology = **Trachybasalt**
 Lat-Lon = **34°13.4'S - 3°46.2'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) = **0.0006756 ± 0.0000089**
 Production 38/37(ca) = **0.0000718 ± 0.0000092**
 Production 36/37(ca) = **0.0002663 ± 0.0000004**
 Production 40/39(k) = **0.003823 ± 0.000102**
 Production 38/39(k) = **0.012031 ± 0.000019**
 Production 36/38(cl) = **262.80 ± 1.71**
 Scaling Ratio K/Ca = **0.430**
 Abundance Ratio 40K/K = **1.1700 ± 0.0100 E-04**
 Atomic Weight K = **39.0983 ± 0.0001 g**

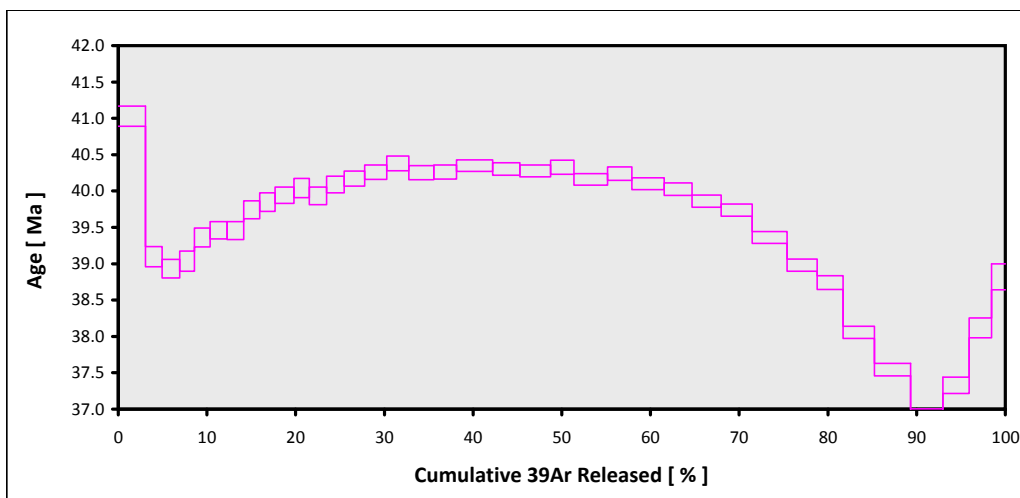
Results	40(a)/36(a) ± 2σ	40(r)/39(k) ± 2σ	Age ± 2σ (Ma)	MSWD	39Ar(k) (%),n	K/Ca ± 2σ
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Age Plateau
 Cannot Calculate

Total Fusion Age	12.61931 ± 0.00545 ± 0.04%	39.49 ± 0.11 ± 0.29%	37	0.263 ± 0.001
		Full External Error ± 0.89		
		Analytical Error ± 0.02		

Normal Isochron
 Cannot Calculate

Inverse Isochron
 Cannot Calculate



Excess argon, but small plateau that likely represents the correct age.

