

EXP#16D44933 > 159-DFWJ-15 > Groundmass > MCCLAUGHRY (15-17)
CENTRAL CORDILLERA OF ... > DUFUR
16-OSU-10 (10C13-16) > Incremental Heating > Dan Miggins

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

Project = MCCLAUGHRY (15-17)
Sample = 159-DFWJ-15
Material = Groundmass
Location = Dufur
Region = Central Cordillera of ...
Analyst = Dan Miggins
Irradiation = 16-OSU-10 (10C13-16)
Position = X: 0 | Y: 0 | Z/H: 23.55587 mm
FCT-NM Age = 28.201 ± 0.023 Ma
FCT-NM Reference = Kuiper et al (2008)
FCT-NM 40Ar/39Ar Ratio = 5.82938 ± 0.00769
FCT-NM J-value = 0.00269624 ± 0.00000356
Air Shot 40Ar/36Ar = 305.5880 ± 0.4523
Air Shot MDF = 0.99173639 ± 0.00067635 (LIN)
Experiment Type = Incremental Heating
Extraction Method = Undefined
Heating = 77 sec
Isolation = 3.00 min
Instrument = ARGUS-VI-D
Preferred Age = Undefined
Age Classification = Undefined
IGSN = 20.9
Rock Class = Undefined
Lithology = Undefined
Lat-Lon = Undefined - Undefined
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		0.52665 ± 0.00353	2.57 ± 0.02	4.70	26.08	0.288 ± 0.018
Error Mean		± 0.67%	± 0.72%	0%	6	
		Full External Error ± 0.06		2.26	2σ Confidence Limit	
		Analytical Error ± 0.02		2.1668	Error Magnification	
Total Fusion Age		0.54134 ± 0.00088	2.64 ± 0.01		40	0.232 ± 0.000
		± 0.16%	± 0.31%			
		Full External Error ± 0.06				
		Analytical Error ± 0.00				
Normal Isochron	266.21 ± 29.01	0.55018 ± 0.02356	2.68 ± 0.11	3.26	26.08	
Error Chron	± 10.90%	± 4.28%	± 4.29%	1%	6	
		Full External Error ± 0.13		2.41	2σ Confidence Limit	
		Analytical Error ± 0.11		1.8065	Error Magnification	
Inverse Isochron	266.58 ± 29.33	0.54998 ± 0.02358	2.68 ± 0.12	3.25	26.08	
Error Chron	± 11.00%	± 4.29%	± 4.29%	1%	6	
		Full External Error ± 0.13		2.41	2σ Confidence Limit	
		Analytical Error ± 0.11		1.8031	Error Magnification	
				7%	Spreading Factor	

