

EXP#16D44743 > 146-DFWJ-15 > Groundmass > MCCLAUGHRY (15-17)
CENTRAL CORDILLERA OF ... > DUFUR
16-OSU-10 (10C7-16) > Incremental Heating > Dan Miggins

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

Project = MCCLAUGHRY (15-17)
Sample = 146-DFWJ-15
Material = Groundmass
Location = Dufur
Region = Central Cordillera of ...
Analyst = Dan Miggins
Irradiation = 16-OSU-10 (10C7-16)
Position = X: 0 | Y: 0 | Z/H: 12.06824 mm
FCT-NM Age = 28.201 ± 0.023 Ma
FCT-NM Reference = Kuiper et al (2008)
FCT-NM 40Ar/39Ar Ratio = 5.76167 ± 0.00772
FCT-NM J-value = 0.00272792 ± 0.00000366
Air Shot 40Ar/36Ar = 305.5020 ± 0.9746
Air Shot MDF = 0.99180453 ± 0.00096223 (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
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		0.61264 ± 0.00442 ± 0.72%	3.02 ± 0.02 ± 0.77%	24.07	23.36	0.45 ± 0.11
Error Mean			Full External Error ± 0.07 Analytical Error ± 0.02	0%	9	
				2.00	2σ Confidence Limit	
				4.9064	Error Magnification	
Total Fusion Age		0.62373 ± 0.00042 ± 0.07%	3.07 ± 0.01 ± 0.28%		40	0.82 ± 0.00
			Full External Error ± 0.07 Analytical Error ± 0.00			
Normal Isochron	279.42 ± 3.01 ± 1.08%	0.61796 ± 0.00153 ± 0.25%	3.05 ± 0.01 ± 0.36%	1.88	23.36	
			Full External Error ± 0.07 Analytical Error ± 0.01	7%	9	
				2.07	2σ Confidence Limit	
				1.3701	Error Magnification	
Inverse Isochron	280.13 ± 2.89 ± 1.03%	0.61744 ± 0.00148 ± 0.24%	3.04 ± 0.01 ± 0.36%	1.75	23.36	
			Full External Error ± 0.07 Analytical Error ± 0.01	9%	9	
				2.07	2σ Confidence Limit	
				1.3217	Error Magnification	
				53%	Spreading Factor	

