

EXP#16D45076 > 173-DFWJ-15 > Groundmass > MCCLAUGHRY (15-17)
CENTRAL CORDILLERA OF ... > DUFUR
16-OSU-10 (10C12-16) > Incremental Heating > Dan Miggins

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

Project = MCCLAUGHRY (15-17)
Sample = 173-DFWJ-15
Material = Groundmass
Location = Dufur
Region = Central Cordillera of ...
Analyst = Dan Miggins
Irradiation = 16-OSU-10 (10C12-16)
Position = X: 0 | Y: 0 | Z/H: 21.88967 mm
FCT-NM Age = 28.201 ± 0.023 Ma
FCT-NM Reference = Kuiper et al (2008)
FCT-NM 40Ar/39Ar Ratio = 5.81714 ± 0.00768
FCT-NM J-value = 0.00270191 ± 0.00000357
Air Shot 40Ar/36Ar = 305.7650 ± 0.4434
Air Shot MDF = 0.99159627 ± 0.00067214 (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 = 15.6
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		0.75690 ± 0.00217	3.69 ± 0.01	4.20	56.84	1.28 ± 0.18
Error Mean		± 0.29%	± 0.39%	0%	23	
		Full External Error ± 0.08		1.60	2σ Confidence Limit	
		Analytical Error ± 0.01		2.0505	Error Magnification	
Total Fusion Age		0.75664 ± 0.00138	3.69 ± 0.01		40	1.25 ± 0.00
		± 0.18%	± 0.32%			
		Full External Error ± 0.08				
		Analytical Error ± 0.01				
Normal Isochron	273.09 ± 10.19	0.79063 ± 0.01546	3.86 ± 0.08	2.43	56.84	
Error Chron	± 3.73%	± 1.95%	± 1.97%	0%	23	
		Full External Error ± 0.12		1.62	2σ Confidence Limit	
		Analytical Error ± 0.08		1.5581	Error Magnification	
Inverse Isochron	273.03 ± 10.32	0.79080 ± 0.01555	3.86 ± 0.08	2.46	56.84	
Error Chron	± 3.78%	± 1.97%	± 1.98%	0%	23	
		Full External Error ± 0.12		1.62	2σ Confidence Limit	
		Analytical Error ± 0.08		1.5696	Error Magnification	
				7%	Spreading Factor	

