

EXP#16D30668_CORRECTED 289.7 > 30-DFWJ-1 5 > Plagioclase > MCCLAUGHRY (15-17)
CENTRAL COLOMBIA > DUFUR
16-OSU-07 (7A37-16) > Incremental Heating > Anthony Koppers

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

Project = MCCLAUGHRY (15-17)
Sample = 30-DFWJ-1 5
Material = Plagioclase
Location = Dufur
Region = Central Colombia
Analyst = Anthony Koppers
Irradiation = 16-OSU-07 (7A37-16)
Position = X: 0 | Y: 0 | Z/H: 47.17 mm
FCT-NM Age = 28.201 ± 0.023 Ma
FCT-NM Reference = Kuiper et al (2008)
FCT-NM 40Ar/39Ar Ratio = 10.48932 ± 0.00713
FCT-NM J-value = 0.00149842 ± 0.00000102
Air Shot 40Ar/36Ar = 303.2980 ± 0.4580
Air Shot MDF = 0.99356402 ± 0.00068536 (LIN)
Experiment Type = Incremental Heating
Extraction Method = Undefined
Heating = 77 sec
Isolation = 1.50 min
Instrument = ARGUS-VI-D
Preferred Age = Inverse Isochron
Age Classification = Undefined
IGSN = 23
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(εC,β⁺) = 0.580 ± 0.009 E-10 1/a
Decay 40K(β⁻) = 4.950 ± 0.043 E-10 1/a
Atmospheric 40/36(a) = 289.00 ± 0.43
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

Subatmospheric Initial 40Ar/36Ar = 289.00 ± 0.15 (%SD).

Results	40(a)/36(a) ± 2σ	40(r)/39(k) ± 2σ	Age ± 2σ (Ma)	MSWD	39Ar(k) (%n)	K/Ca ± 2σ
Age Plateau Overestimated		1.94730 ± 0.17024 ± 8.74%	5.27 ± 0.46 ± 8.73%	0.27 100%	49.85 21	0.064 ± 0.000
			Full External Error ± 0.48 Analytical Error ± 0.46	1.63 1.0000	2σ Confidence Limit Error Magnification	
Total Fusion Age		2.43139 ± 0.29792 ± 12.25%	6.58 ± 0.80 ± 12.23%		29	0.065 ± 0.000
			Full External Error ± 0.82 Analytical Error ± 0.80			
Normal Isochron	289.15 ± 0.71 ± 0.25%	1.89564 ± 0.28820 ± 15.20%	5.13 ± 0.78 ± 15.18%	0.35 100%	49.85 21	
			Full External Error ± 0.79 Analytical Error ± 0.78	1.65 1.0000	2σ Confidence Limit Error Magnification	
Inverse Isochron Clustered Points	289.15 ± 0.71 ± 0.25%	1.89562 ± 0.28256 ± 14.91%	5.13 ± 0.76 ± 14.89%	0.35 100%	49.85 21	
			Full External Error ± 0.77 Analytical Error ± 0.76	1.65 1.0000	2σ Confidence Limit Error Magnification	
				3%	Spreading Factor	

