

Datafile: C:\Users\ablythe\Desktop\Ann-2019 samples\HG-34.fta

Title: Sample HG-34, Haida Gwai, CN-5 glass for monitor

NEW PARAMETERS - ZETA METHODEFFECTIVE TRACK DENSITY FOR FLUENCE MONITOR (tracks/cm²): 1.47E+06

RELATIVE ERROR (%): 1.57

EFFECTIVE URANIUM CONTENT OF MONITOR (ppm): 46.10

ZETA FACTOR AND STANDARD ERROR (yr cm²): 359.00 10.00SIZE OF COUNTER SQUARE (cm²): 6.40E-07**GRAIN AGES IN ORIGINAL ORDER**

Grain no.	RhoS (cm ⁻²)	(Ns)	Rhol (cm ⁻²)	(Ni)	Squares	U+/-2s	Grain Age (Ma)	Age	--95% CI--
1	1.25E+05	(2)	3.44E+06	(55)	25	108 29	10.3	1.1	36.3
2	2.50E+05	(8)	5.34E+06	(171)	50	168 26	12.6	5.2	24.9
3	6.51E+04	(1)	1.43E+06	(22)	24	45 19	13.6	0.3	73.8
4	1.25E+05	(2)	2.63E+06	(42)	25	82 25	13.5	1.5	48.2
5	3.13E+05	(5)	5.00E+06	(80)	25	157 35	17.0	5.2	40.0
6	1.25E+05	(2)	5.31E+06	(85)	25	167 36	6.7	0.7	23.1
7	1.25E+05	(2)	3.81E+06	(61)	25	120 31	9.3	1.0	32.6
8	2.50E+05	(4)	5.00E+06	(80)	25	157 35	13.7	3.5	35.1
9	0.00E+00	(0)	1.44E+06	(23)	25	45 19	8.1	0.3	45.8
10	6.25E+04	(1)	2.56E+06	(41)	25	80 25	7.3	0.2	37.8
11	6.25E+04	(1)	3.06E+06	(49)	25	96 27	6.2	0.1	31.4
12	1.88E+05	(3)	4.75E+06	(76)	25	149 34	10.9	2.1	31.6
13	2.50E+05	(4)	6.25E+06	(100)	25	196 40	11.0	2.8	27.8
14	1.25E+05	(2)	5.25E+06	(84)	25	165 36	6.8	0.7	23.4
15	1.95E+05	(2)	2.93E+06	(30)	16	92 33	18.8	2.0	69.0
16	2.50E+05	(4)	5.31E+06	(85)	25	167 36	12.9	3.3	32.9
17	6.25E+04	(1)	1.44E+06	(23)	25	45 19	13.0	0.3	70.3
18	1.95E+05	(5)	4.69E+06	(120)	40	147 27	11.3	3.5	26.3
19	1.88E+05	(3)	6.38E+06	(102)	25	200 40	8.2	1.6	23.3
20	3.13E+05	(4)	5.94E+06	(76)	20	186 43	14.4	3.7	37.0

POOLED 1.67E+05(56) 4.18E+06(1405) 525 131 8 10.5 8.0 13.8

CHI² PROBABILITY (%): 99.9>>> Beware: possible upward bias in Chi² probability due to low counts <<<

POOLED AGE W/ 68% CONF. INTERVAL(Ma): 10.5, 9.1 -- 12.1 (-1.4 +1.6)

95% CONF. INTERVAL(Ma): 8.0 -- 13.8 (-2.5 +3.3)

CENTRAL AGE W/ 68% CONF. INTERVAL(Ma): 10.5, 9.1 -- 12.1 (-1.4 +1.6)

95% CONF. INTERVAL(Ma): 8.0 -- 13.8 (-2.5 +3.3)

AGE DISPERSION (%): 0.1

*FIT OPTION: Best-fit peaks using the binomial model of Galbraith and Green***INITIAL GUESS FOR MODEL PARAMETERS (number of peaks to fit = 1)**

Peak #.	Peak Age	Theta	Fraction(%)	Count
1.	10.50	0.038	28.9	5.79

Total range for grain ages: 5.6 to 21.6 Ma
 Number of active grains (Num. used for fit): 20
 Number of removed grains: 0
 Degrees of freedom for fit: 19
 Average of the SE(Z)'s for the grains: 0.69
 Estimated width of peaks in PD plot in Z units: 0.8

PARAMETERS FOR BEST-FIT PEAKS

- * Standard error for peak age includes group error
- * Peak width is for PD plot assuming a kernel factor = 0.60

#.	Peak Age(Ma)	68%CI	95%CI	W(Z)	Frac(%)	SE,%	Count
1.	10.5	-1.4 ...+1.6	-2.5 ...+3.3	0.71	100.0	0.0	20.0

Log-likelihood for best fit: -29.622
 Chi-squared value for best fit: 5.424
 Reduced chi-squared value: 0.285
 Probability for F test: 0%
 Condition number for COVAR matrix: 1.00
 Number of iterations: 5



