

Datafile: C:\Users\ablythe\Desktop\HG-12.fta

Title: Sample HG-12, Haida Gwai, CN-5 glass for monitor

**NEW PARAMETERS - ZETA METHOD**EFFECTIVE TRACK DENSITY FOR FLUENCE MONITOR (tracks/cm<sup>2</sup>): 1.50E+06

RELATIVE ERROR (%): 1.57

EFFECTIVE URANIUM CONTENT OF MONITOR (ppm): 46.10

ZETA FACTOR AND STANDARD ERROR (yr cm<sup>2</sup>): 359.00 10.00SIZE OF COUNTER SQUARE (cm<sup>2</sup>): 6.40E-07**GRAIN AGES IN ORIGINAL ORDER**

Grain no.	RhoS (cm <sup>-2</sup> )	(Ns)	Rhol (cm <sup>-2</sup> )	(Ni)	Squares	U+/-2s	Grain Age (Ma)	Age	--95% CI--
1	6.25E+04	( 2)	1.66E+06	( 53)	50	51 14	10.9	1.2	38.5
2	9.38E+04	( 6)	1.48E+06	( 95)	100	46 9	17.4	6.1	38.3
3	1.56E+05	( 5)	3.56E+06	( 114)	50	109 21	12.2	3.8	28.3
4	1.56E+05	( 5)	4.59E+06	( 147)	50	141 24	9.4	2.9	21.8
5	2.19E+05	( 7)	4.28E+06	( 137)	50	132 23	14.0	5.4	29.1
6	6.25E+04	( 2)	1.63E+06	( 52)	50	50 14	11.1	1.2	39.2
7	4.38E+05	( 7)	7.13E+06	( 114)	25	219 42	16.9	6.5	35.1
8	9.38E+04	( 3)	3.00E+06	( 96)	50	92 19	8.8	1.7	25.3
9	9.38E+04	( 3)	1.56E+06	( 50)	50	48 14	16.9	3.2	49.9
10	6.25E+04	( 2)	2.19E+06	( 70)	50	67 16	8.3	0.9	28.8
11	1.25E+05	( 4)	1.75E+06	( 56)	50	54 14	19.9	5.1	51.9
12	6.25E+04	( 1)	1.69E+06	( 27)	25	52 20	11.4	0.2	60.3
13	0.00E+00	( 0)	1.41E+06	( 45)	50	43 13	4.2	0.2	23.0
14	9.38E+04	( 3)	1.47E+06	( 47)	50	45 13	18.0	3.4	53.2
15	9.38E+04	( 3)	1.09E+06	( 35)	50	34 11	24.2	4.5	72.9
16	1.25E+05	( 4)	1.28E+06	( 41)	50	39 12	27.2	6.8	72.2
17	2.81E+05	( 9)	6.34E+06	( 203)	50	195 28	12.1	5.4	23.1
18	1.25E+05	( 4)	2.41E+06	( 77)	50	74 17	14.5	3.7	37.2
19	6.25E+04	( 2)	1.47E+06	( 47)	50	45 13	12.3	1.3	43.6
20	7.50E+05	( 12)	1.11E+07	( 177)	25	340 52	18.5	9.2	32.7

POOLED 1.35E+05( 84) 2.70E+06( 1683) 975 83 5 13.4 10.7 16.9

CHI<sup>2</sup> PROBABILITY (%): 95.8>>> Beware: possible upward bias in Chi<sup>2</sup> probability due to low counts <<<

POOLED AGE W/ 68% CONF. INTERVAL(Ma): 13.4, 12.0 -- 15.1 ( -1.5 +1.6)

95% CONF. INTERVAL(Ma): 10.7 -- 16.9 ( -2.7 +3.4)

CENTRAL AGE W/ 68% CONF. INTERVAL(Ma): 13.4, 12.0 -- 15.1 ( -1.5 +1.7)

95% CONF. INTERVAL(Ma): 10.7 -- 16.9 ( -2.7 +3.4)

AGE DISPERSION (%): 0.2

*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.	13.40	0.048	30.6	6.12

Total range for grain ages: 3.0 to 29.1 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: 0.61  
 Estimated width of peaks in PD plot in Z units: 0.71

**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.	13.4	-1.5 ...+1.7	-2.7 ...+3.4	0.58	100.0	0.0	20.0

Log-likelihood for best fit: -35.729  
 Chi-squared value for best fit: 9.806  
 Reduced chi-squared value: 0.516  
 Probability for F test: 0%  
 Condition number for COVAR matrix: 1.00  
 Number of iterations: 5



