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^2): 1.50E+06
RELATIVE ERROR (%): 1.57
EFFECTIVE URANIUM CONTENT OF MONITOR (ppm): 46.10
ZETA FACTOR AND STANDARD ERROR (yr cm^2): 359.00 10.00
SIZE OF COUNTER SQUARE (cm^2): 6.40E-07

GRAIN AGES IN ORIGINAL ORDER

```
Grain RhoS (Ns) RhoI (Ni) Squares U+/-2s Grain Age (Ma)
                                    Age --95% CI--
no. (cm^-2)
                (cm^{2})
 1 6.25E+04 ( 2) 1.66E+06 ( 53)
                                50
                                     51 14 10.9
 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
                                 50
 6 6.25E+04 ( 2) 1.63E+06 ( 52)
                                     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)
                                     67 16
                                 50
                                            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
                                 50
                                     45 13 18.0
14 9.38E+04 ( 3) 1.47E+06 ( 47)
                                                  3.4 53.2
                                 50
15 9.38E+04 ( 3) 1.09E+06 ( 35)
                                     34 11 24.2
                                                  4.5 72.9
16 1.25E+05 ( 4) 1.28E+06 ( 41)
                                     39 12 27.2
                                 50
                                                  6.8 72.2
17 2.81E+05 ( 9) 6.34E+06 (203)
                                 50
                                     195 28 12.1 5.4 23.1
                                                  3.7 37.2
 18 1.25E+05 ( 4) 2.41E+06 ( 77)
                                 50
                                     74 17 14.5
 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^2 PROBABILITY (%): 95.8

>>> Beware: possible upward bias in Chi^2 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

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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 A	Age The	ta Frac	tion(%)	Count				
1.	13.40	0.048	30.6	6.12					
Total ran			29.1 Ma						
Number of active grains (Num. used for fit): 20 Number of removed grains: 0									
Degrees	of freedo	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

#. F	Peak A	ge(Ma) 68%	CI 95%	CI	W(Z) F	rac(%) SE,%	Count
1.	13.4	-1.5+1.7	-2.7+3.4	0.58	100.0	0.0	20.0	

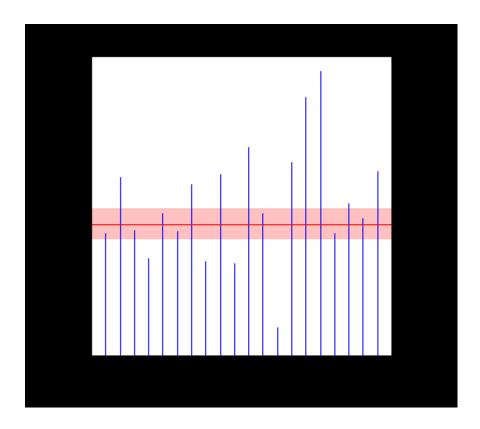
Log-likelihood for best fit: -35.729
Chi-squared value for best fit: 9.806
Reduced chi-squared value: 0.516

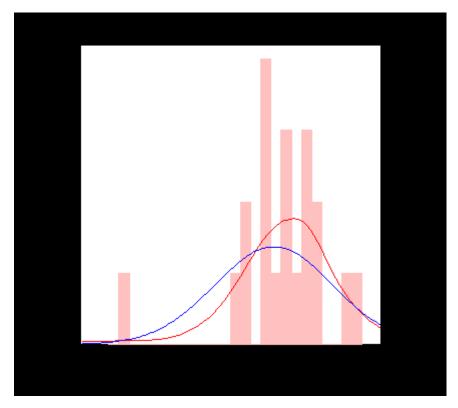
Probability for F test: 0%

Condition number for COVAR matrix: 1.00

Number of iterations: 5

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