Datafile: C:\Users\ablythe\Desktop\Ann-2019 samples\BAR.fta
Title: Sample BAR, Haida Gwai, CN-5 glass for monitor

NEW PARAMETERS - ZETA METHOD

EFFECTIVE TRACK DENSITY FOR FLUENCE MONITOR (tracks/cm^2): 1.47E+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 no.	RhoS (cm^-2)	(Ns)	RhoI (cm^-2)	(Ni)	Squares	U+/-2s	Grain Age	Age --95% CI-- (Ma)	
1	1.95E+05	(3)	5.92E+06	(91)	24	186 39	9.1	1.8	26.2
2	3.13E+05	(5)	5.06E+06	(81)	25	159 36	16.8	5.1	39.5
3	6.25E+04	(1)	2.13E+06	(34)	25	67 23	8.8	0.2	46.1
4	5.86E+05	(6)	1.14E+07	(117)	16	358 67	13.9	4.9	30.3
5	4.88E+05	(5)	8.79E+06	(90)	16	276 59	15.1	4.6	35.4
6	3.75E+05	(6)	8.81E+06	(141)	25	276 47	11.5	4.0	25.0
7	4.88E+05	(5)	6.25E+06	(64)	16	196 49	21.2	6.5	50.5
8	4.38E+05	(7)	7.69E+06	(123)	25	241 44	15.3	5.9	31.8
9	2.93E+05	(3)	7.71E+06	(79)	16	242 55	10.5	2.0	30.3
10	9.77E+04	(1)	4.30E+06	(44)	16	135 41	6.8	0.1	35.1
11	3.91E+05	(4)	9.18E+06	(94)	16	288 60	11.7	3.0	29.7
12	2.93E+05	(3)	6.45E+06	(66)	16	202 50	12.6	2.4	36.5
13	3.75E+05	(6)	6.69E+06	(107)	25	210 41	15.2	5.3	33.2
14	2.93E+05	(3)	4.98E+06	(51)	16	156 44	16.3	3.1	47.9
15	3.91E+05	(4)	9.96E+06	(102)	16	312 62	10.7	2.8	27.3
16	3.91E+05	(4)	6.25E+06	(64)	16	196 49	17.1	4.4	44.2

POOLED 3.34E+05(66) 6.82E+06(1348) 309 214 13 12.9 10.0 16.6

CHI^2 PROBABILITY (%): 99.8
 >>> Beware: possible upward bias in Chi^2 probability due to low counts <<<

POOLED AGE W/ 68% CONF. INTERVAL(Ma): 12.9, 11.3 -- 14.7 (-1.6 +1.8)
　　　　95% CONF. INTERVAL(Ma):　　　 10.0 -- 16.6 (-2.9 +3.7)

CENTRAL AGE W/ 68% CONF. INTERVAL(Ma): 12.9, 11.3 -- 14.7 (-1.6 +1.8)
　　　　95% CONF. INTERVAL(Ma):　　　 10.0 -- 16.6 (-2.9 +3.7)
　　　　AGE DISPERSION (%):   0.1

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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 Age	Theta	Fraction(%)	Count
1.	12.90	0.047	37.5	6.00

Total range for grain ages: 8.9 to 22.5 Ma
Number of active grains (Num. used for fit):   16
Number of removed grains: 0
Degrees of freedom for fit: 15
Average of the SE(Z)'s for the grains: 0.53
Estimated width of peaks in PD plot in Z units: 0.62

PARAMETERS FOR BEST-FIT PEAKS

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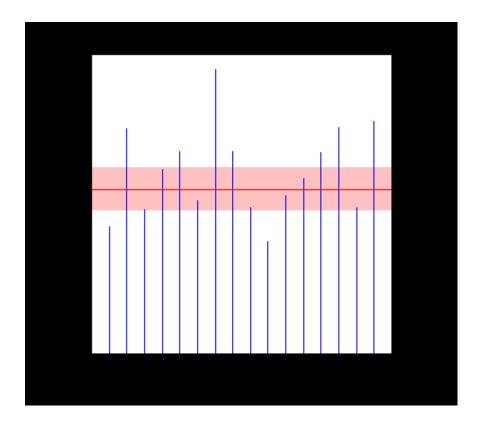* *Peak width is for PD plot assuming a kernel factor = 0.60*

#.	Peak Age(Ma)	68%CI	95%CI	W(Z)	Frac(%)	SE,%	Count
1.	12.9	-1.6 ...+1.8	-2.9 ...+3.7	0.59	100.0	0.0	16.0

Log-likelihood for best fit: -27.081
Chi-squared value for best fit: 3.855
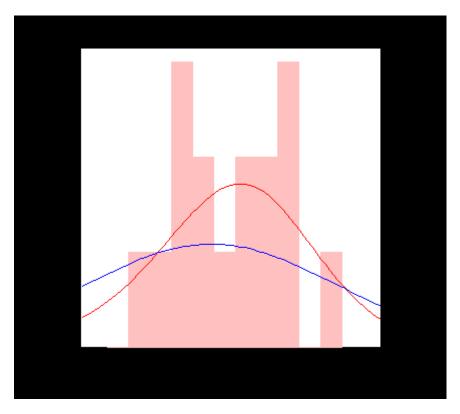Reduced chi-squared value: 0.257
Probability for F test: 0%
Condition number for COVAR matrix: 1.00
Number of iterations: 5

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