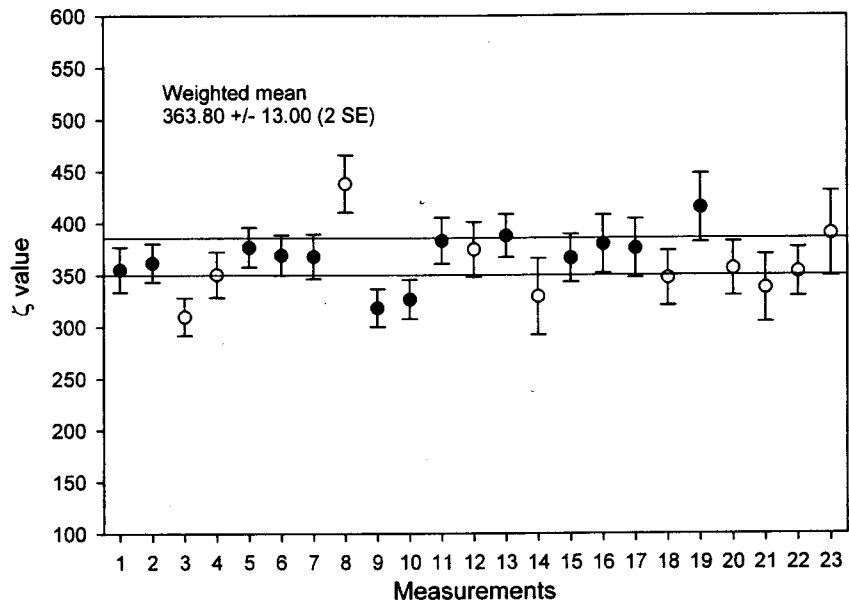


APPENDIX A

Zeta Calculations, Fluence Calculations, Irradiation Order

ζ Calculations used in this study



Based on measurements of the Fish Canyon Tuff (closed) and the Buluk Tuff Member (open) and a Peach Springs Tuff

Zircon Zeta Calculations

S.Perry Zeta Summary, January 2006 (Alaska detrital work)

RSE for Age std = 0.5

Mean Zeta:

363.85
6.20
6.46

SE ZETA (grain-only):

SE ZETA (total):

Zeta Values (n) = 23

Sample	Zeta Value	Grain SE	Total SE	Irradiation	Date
FCT1	355.24	20.60	21.60	U18Z	2/2/03
FCT2	361.63	17.50	18.60	U18Z	8/2/03
BLK1	350.44	21.50	21.90	U18Z	27/2/03
BLK2	309.84	17.80	18.20	U18Z	7/2/03
FCT1	318.15	17.30	18.20	U19Z	9/2/03
FCT2	326.55	18.10	19.00	U19Z	11/2/03
FCT1	376.82	17.90	19.10	U21Z	12/2/03
FCT3	369.12	18.30	19.50	U21Z	25/2/03
FCT1	367.75	20.50	21.50	U26Z	28/2/03
FCT3	383.00	21.20	22.30	U26Z	8/3/03
BLK1	438.12	27.10	27.60	U26Z	24/2/03
FCT2	387.81	19.50	20.70	U27Z	11/4/03
BLK1	374.68	26.20	26.60	U27Z	2/4/03
FCT1	366.35	22.10	23.10	U30Z	3/10/03
FCT2	379.73	27.10	28.00	U30Z	5/10/03
FCT3	375.70	27.40	28.20	U30Z	5/10/03
BLK1	329.32	36.70	36.90	U30Z	3/10/03
PST1	347.01	26.70	26.70	U30Z	8/10/03
FCT4	414.87	32.00	32.90	U35Z	5/12/05
BLK2	356.16	25.70	26.10	U35Z	5/12/05
BLK3	337.31	32.50	32.80	U35Z	21/12/05
PST2	353.08	23.50	23.60	U35Z	5/12/05
PST3	389.78	41.00	41.00	U35Z	6/12/05

FCT-1, U18Z-26

====Zfactor Program v. 1.2 (Brandon 3/18/95)=====

DATE/TIME: 02-24-2003/10:25:39 FILENAME:
C:\DOCUME~1\GUEST\DESKTOP\FT\SEP\STD\FC1_18.TXT
FCT-1, U18Z-26, Perry, 2/2/03

AGE (MA) AND STANDARD ERROR (MY) OF AGE STANDARD: 27.90 0.50
TRACK DENSITY FOR GLASS STANDARD (TRACKS/CM²): 2.770E+05
RELATIVE STANDARD ERROR FOR GLASS DENSITY (%): 2.23
SIZE OF COUNTING SQUARE (CM²): 6.890E-07

----- ZETA FOR GRAINS OF AGE STANDARD -----

Grain no.	RhoS (cm ⁻²)	(Ns)	RhoI (cm ⁻²)	(Ni)	Squares	Zeta (yr cm ²)	Grain-only SE	Total SE
1	4.935E+06	(68)	8.853E+06	(122)	20	362.20	55.4	55.8
2	4.136E+06	(57)	7.184E+06	(99)	20	350.63	58.8	59.2
3	4.935E+06	(68)	9.797E+06	(135)	20	400.79	60.3	60.7
4	5.660E+06	(39)	8.853E+06	(61)	10	315.76	65.1	65.4
5	6.531E+06	(36)	1.052E+07	(58)	8	325.25	69.4	69.6
6	4.354E+06	(45)	8.805E+06	(91)	15	408.25	75.0	75.3
7	3.290E+06	(34)	6.483E+06	(67)	15	397.82	84.2	84.5
8	5.322E+06	(44)	8.708E+06	(72)	12	330.35	63.6	63.9
9	4.427E+06	(61)	7.547E+06	(104)	20	344.19	56.0	56.4
10	5.225E+06	(36)	8.418E+06	(58)	10	325.25	69.4	69.6
11	5.171E+06	(57)	8.345E+06	(92)	16	325.84	55.4	55.7
POOLED	4.765E+06	(545)	8.385E+06	(959)	166	355.24	20.6	21.6
MEAN ZETA (using grain ratios)						350.45	12.5	14.0

CHI-SQUARED PROBABILITY (%): 98.8

MEAN (RhoS/RhoI) +/- 1 SE: 0.576 +/- 0.0160

FCT-2, U18Z-3

=====Zfactor Program v. 1.2 (Brandon 3/18/95)=====

DATE/TIME: 02-24-2003/10:26:10 FILENAME:

C:\DOCUME~1\GUEST\DESKTOP\FT\SEP\STD\FC2_18.TXT

FCT-2, U18Z-3, Perry, 8/2/03

AGE (MA) AND STANDARD ERROR (MY) OF AGE STANDARD: 27.90 0.50
TRACK DENSITY FOR GLASS STANDARD (TRACKS/CM²): 3.120E+05
RELATIVE STANDARD ERROR FOR GLASS DENSITY (%): 2.12
SIZE OF COUNTING SQUARE (CM²): 6.890E-07

----- ZETA FOR GRAINS OF AGE STANDARD -----

Grain no.	RhoS (cm ⁻²)	(Ns)	RhoI (cm ⁻²)	(Ni)	Squares	Zeta (yr cm ²)	Grain-only SE	Total SE
1	5.031E+06	(104)	8.950E+06	(185)	30	318.83	39.7	40.1
2	5.806E+06	(80)	1.219E+07	(168)	20	376.39	51.7	52.2
3	4.644E+06	(64)	1.110E+07	(153)	20	428.48	64.4	64.9
4	5.588E+06	(77)	1.132E+07	(156)	20	363.12	51.2	51.6
5	4.354E+06	(60)	9.942E+06	(137)	20	409.25	63.9	64.4
6	6.386E+06	(88)	1.147E+07	(158)	20	321.81	43.3	43.7
7	5.660E+06	(78)	1.205E+07	(166)	20	381.45	53.0	53.4
8	5.951E+06	(82)	1.132E+07	(156)	20	340.98	47.1	47.5
9	5.660E+06	(78)	9.579E+06	(132)	20	303.32	43.8	44.1
10	6.023E+06	(83)	1.386E+07	(191)	20	412.45	54.9	55.4
POOLED	5.488E+06	(794)	1.107E+07	(1602)	210	361.63	17.5	18.6
MEAN ZETA (using grain ratios)						360.91	15.7	17.0

CHI-SQUARED PROBABILITY (%): 66.7

MEAN (RhoS/RhoI) +/- 1 SE: 0.497 +/- 0.0189

BLK-1, U18Z-27

=====Zfactor Program v. 1.2 (Brandon 3/18/95)=====

DATE/TIME: 02-28-2003/10:28:48 FILENAME:

C:\DOCUME~1\GUEST\DESKTOP\FT\SEP\STD\BL1_18.TXT

BLK-1, U18Z-27, Perry, 27/2/03

AGE (MA) AND STANDARD ERROR (MY) OF AGE STANDARD: 16.40 0.20
TRACK DENSITY FOR GLASS STANDARD (TRACKS/CM²): 2.755E+05
RELATIVE STANDARD ERROR FOR GLASS DENSITY (%): 2.33
SIZE OF COUNTING SQUARE (CM²): 6.890E-07

----- ZETA FOR GRAINS OF AGE STANDARD -----

Grain no.	RhoS (cm ⁻²)	(Ns)	RhoI (cm ⁻²)	(Ni)	Squares	Zeta (yr cm ²)	Grain-only SE	Total SE
1	1.016E+06	(42)	3.145E+06	(130)	60	368.98	66.1	66.2
2	6.676E+05	(23)	1.829E+06	(63)	50	326.53	79.9	80.0
3	1.209E+06	(50)	3.628E+06	(150)	60	357.62	59.0	59.2
4	5.806E+05	(28)	2.239E+06	(108)	70	459.80	98.1	98.3
5	5.225E+05	(18)	2.671E+06	(92)	50	609.28	157.7	157.8
6	1.161E+06	(64)	3.465E+06	(191)	80	355.76	52.0	52.2
7	9.579E+05	(33)	1.887E+06	(65)	50	234.80	50.5	50.6
8	1.145E+06	(71)	3.241E+06	(201)	90	337.48	47.2	47.4
9	7.837E+05	(27)	1.974E+06	(68)	50	300.23	68.7	68.7
10	9.515E+05	(59)	2.451E+06	(152)	90	307.11	47.6	47.8
POOLED	9.266E+05	(415)	2.724E+06	(1220)	650	350.44	21.5	21.9
MEAN ZETA (using grain ratios)						344.77	27.4	27.7

CHI-SQUARED PROBABILITY (%): 24.9

MEAN (RhoS/RhoI) +/- 1 SE: 0.346 +/- 0.0262

BLK-2, U18Z-2

=====Zfactor Program v. 1.2 (Brandon 3/18/95)=====
DATE/TIME: 02-24-2003/16:41:17 FILENAME:
C:\DOCUME~1\GUEST\DESKTOP\FT\SEP\STD\BL2_18.TXT
BLK-2, U18Z-2, Perry, 7/2/03

AGE (MA) AND STANDARD ERROR (MY) OF AGE STANDARD: 16.40 0.20
TRACK DENSITY FOR GLASS STANDARD (TRACKS/CM²): 3.135E+05
RELATIVE STANDARD ERROR FOR GLASS DENSITY (%): 2.19
SIZE OF COUNTING SQUARE (CM²): 6.890E-07

----- ZETA FOR GRAINS OF AGE STANDARD -----

Grain no.	RhoS (cm ⁻²)	(Ns)	RhoI (cm ⁻²)	(Ni)	Squares	Zeta (yr cm ²)	Grain-only SE	Total SE
1	1.633E+06	(45)	3.991E+06	(110)	40	256.08	45.7	45.8
2	1.244E+06	(48)	3.914E+06	(151)	56	329.55	55.1	55.2
3	1.045E+06	(36)	3.919E+06	(135)	50	392.84	74.2	74.3
4	9.797E+05	(27)	3.592E+06	(99)	40	384.11	83.8	84.0
5	1.330E+06	(66)	2.963E+06	(147)	72	233.33	34.9	35.1
6	3.349E+05	(36)	9.118E+05	(98)	156	285.18	55.9	56.0
7	1.379E+06	(38)	3.193E+06	(88)	40	242.60	47.4	47.5
8	8.950E+05	(37)	2.540E+06	(105)	60	297.29	57.2	57.3
9	1.011E+06	(39)	3.084E+06	(119)	56	319.65	59.4	59.5
10	1.179E+06	(52)	3.583E+06	(158)	64	318.30	51.4	51.5
11	9.952E+05	(48)	3.857E+06	(186)	70	405.94	66.3	66.5
POOLED 9.731E+05(472) 2.878E+06(1396) 704						309.84	17.8	18.2
MEAN ZETA (using grain ratios)						304.71	18.8	19.2

CHI-SQUARED PROBABILITY (%): 26.8

MEAN (RhoS/RhoI) +/- 1 SE: 0.344 +/- 0.0198

FCT-1, U19Z-13

=====Zfactor Program v. 1.2 (Brandon 3/18/95)=====

DATE/TIME: 03-07-2003/13:54:44 FILENAME:
C:\DOCUME~1\GUEST\DESKTOP\FT\SEP\STD\FCT1_19.TXT
FCT-1, U19Z-13, Perry, 9/2/03 (SRJohnston fluence)

AGE (MA) AND STANDARD ERROR (MY) OF AGE STANDARD: 27.90 0.50
TRACK DENSITY FOR GLASS STANDARD (TRACKS/CM²): 3.170E+05
RELATIVE STANDARD ERROR FOR GLASS DENSITY (%): 1.54
SIZE OF COUNTING SQUARE (CM²): 6.890E-07

----- ZETA FOR GRAINS OF AGE STANDARD -----

Grain no.	RhoS (cm ⁻²)	(Ns)	RhoI (cm ⁻²)	(Ni)	Squares	Zeta (yr cm ²)	Grain-only SE	Total SE
1	3.919E+06	(54)	1.038E+07	(143)	20	467.15	75.0	75.4
2	4.427E+06	(61)	9.071E+06	(125)	20	361.49	56.7	57.1
3	5.152E+06	(71)	8.999E+06	(124)	20	308.09	46.1	46.4
4	3.774E+06	(52)	6.821E+06	(94)	20	318.89	55.3	55.6
5	4.064E+06	(56)	6.241E+06	(86)	20	270.91	46.7	47.0
6	4.548E+06	(94)	7.789E+06	(161)	30	302.14	39.5	39.9
7	3.048E+06	(42)	6.459E+06	(89)	20	373.81	70.2	70.5
8	8.345E+06	(92)	1.170E+07	(129)	16	247.35	34.0	34.3
9	3.483E+06	(48)	5.588E+06	(77)	20	282.99	52.2	52.5
POOLED	4.448E+06	(570)	8.022E+06	(1028)	186	318.15	17.3	18.2
MEAN ZETA (using grain ratios)						315.33	19.7	20.5

CHI-SQUARED PROBABILITY (%): 14.3

MEAN (RhoS/RhoI) +/- 1 SE: 0.559 +/- 0.0339

FCT-2, U19Z-2

=====Zfactor Program v. 1.2 (Brandon 3/18/95)=====

DATE/TIME: 03-07-2003/13:54:58 FILENAME:

C:\DOCUME~1\GUEST\DESKTOP\FT\SEP\STD\FC2_19.TXT

FCT-2, U19Z-2, Perry, 11/2/03 (SRJohnston fluence)

AGE (MA) AND STANDARD ERROR (MY) OF AGE STANDARD: 27.90 0.50
TRACK DENSITY FOR GLASS STANDARD (TRACKS/CM²): 3.170E+05
RELATIVE STANDARD ERROR FOR GLASS DENSITY (%): 1.54
SIZE OF COUNTING SQUARE (CM²): 6.890E-07

----- ZETA FOR GRAINS OF AGE STANDARD -----

Grain no.	RhoS (cm ⁻²)	(Ns)	RhoI (cm ⁻²)	(Ni)	Squares	Zeta (yr cm ²)	Grain-only SE	Total SE
1	3.266E+06	(45)	6.749E+06	(93)	20	364.57	66.4	66.8
2	3.846E+06	(53)	7.039E+06	(97)	20	322.86	55.4	55.7
3	2.903E+06	(40)	4.354E+06	(60)	20	264.61	54.2	54.4
4	2.322E+06	(32)	5.660E+06	(78)	20	429.99	90.5	90.8
5	1.693E+06	(35)	3.628E+06	(75)	30	378.01	77.6	77.9
6	4.862E+06	(67)	9.724E+06	(134)	20	352.81	53.1	53.4
7	4.209E+06	(58)	5.443E+06	(75)	20	228.11	40.0	40.3
8	5.298E+06	(73)	9.652E+06	(133)	20	321.40	47.1	47.4
9	6.370E+06	(79)	1.201E+07	(149)	18	332.72	46.6	47.0
10	4.499E+06	(62)	8.200E+06	(113)	20	321.52	51.1	51.4

POOLED 3.796E+06(544) 7.027E+06(1007) 208 326.55 18.1 19.0
MEAN ZETA (using grain ratios) 322.21 20.0 20.8

CHI-SQUARED PROBABILITY (%): 51.0

MEAN (RhoS/RhoI) +/- 1 SE: 0.547 +/- 0.0329

FCT-1, U21Z-2

=====Zfactor Program v. 1.2 (Brandon 3/18/95)=====

DATE/TIME: 02-26-2003/17:24:58 FILENAME:
 C:\DOCUME~1\GUEST\DESKTOP\FT\SEP\STD\FC1_21.TXT
 FCT-1, U21Z-2, Perry, 12/2/03

AGE (MA) AND STANDARD ERROR (MY) OF AGE STANDARD: 27.90 0.50
 TRACK DENSITY FOR GLASS STANDARD (TRACKS/CM^2): 2.999E+05
 RELATIVE STANDARD ERROR FOR GLASS DENSITY (%): 2.28
 SIZE OF COUNTING SQUARE (CM^2): 6.890E-07

----- ZETA FOR GRAINS OF AGE STANDARD -----

Grain no.	RhoS (cm^-2)	(Ns)	RhoI (cm^-2)	(Ni)	Squares	Zeta (yr cm^2)	Grain-only SE	Total SE			
1	5.298E+06	(73)	1.168E+07	(161)	20	411.25	58.8	59.2			
2	7.329E+06	(101)	1.212E+07	(167)	20	308.31	39.5	39.9			
3	5.080E+06	(63)	1.226E+07	(152)	18	449.88	68.2	68.7			
4	5.515E+06	(76)	1.248E+07	(172)	20	422.00	58.9	59.4			
5	4.959E+06	(123)	8.104E+06	(201)	36	304.71	35.6	36.0			
6	5.951E+06	(82)	1.444E+07	(199)	20	452.52	60.3	60.8			
7	4.072E+06	(101)	7.539E+06	(187)	36	345.24	43.4	43.8			
8	7.112E+06	(98)	1.313E+07	(181)	20	344.39	43.9	44.3			
9	4.209E+06	(58)	1.132E+07	(156)	20	501.53	78.0	78.5			
10	7.096E+06	(88)	1.355E+07	(168)	18	355.98	47.5	48.0			
POOLED MEAN ZETA (using grain ratios)						5.494E+06 (863)	1.110E+07 (1744)	228	376.82	17.9	19.1
									379.33	22.3	23.3

CHI-SQUARED PROBABILITY (%): 8.8

MEAN (RhoS/RhoI) +/- 1 SE: 0.492 +/- 0.0266

FCT-3, U21Z-51

=====
 =====Zfactor Program v. 1.2 (Brandon 3/18/95)=====
 DATE/TIME: 02-26-2003/17:24:36 FILENAME:
 C:\DOCUME~1\GUEST\DESKTOP\FT\SEP\STD\FC3_21.TXT
 FCT-3, U21Z-51, Perry, 25/2/03

AGE (MA) AND STANDARD ERROR (MY) OF AGE STANDARD: 27.90 0.50
 TRACK DENSITY FOR GLASS STANDARD (TRACKS/CM²): 2.461E+05
 RELATIVE STANDARD ERROR FOR GLASS DENSITY (%): 2.51
 SIZE OF COUNTING SQUARE (CM²): 6.890E-07

----- ZETA FOR GRAINS OF AGE STANDARD -----

Grain no.	RhoS (cm ⁻²)	(Ns)	RhoI (cm ⁻²)	(Ni)	Squares	Zeta (yr cm ²)	Grain-only SE	Total SE
1	5.733E+06	(79)	9.434E+06	(130)	20	373.92	54.2	54.6
2	5.806E+06	(80)	1.096E+07	(151)	20	428.89	60.3	60.8
3	6.604E+06	(91)	1.023E+07	(141)	20	352.08	48.2	48.6
4	8.636E+06	(119)	1.089E+07	(150)	20	286.42	35.9	36.3
5	6.967E+06	(96)	1.060E+07	(146)	20	345.58	46.2	46.6
6	7.039E+06	(97)	1.161E+07	(160)	20	374.81	49.1	49.6
7	6.676E+06	(92)	1.183E+07	(163)	20	402.59	53.5	53.9
8	4.717E+06	(65)	9.579E+06	(132)	20	461.45	70.9	71.4
9	5.806E+06	(80)	9.652E+06	(133)	20	377.77	54.3	54.7
10	6.168E+06	(85)	9.434E+06	(130)	20	347.53	49.3	49.6
POOLED 6.415E+06(884) 1.042E+07(1436) 200						369.12	18.3	19.5
MEAN ZETA (using grain ratios)						369.35	18.2	19.4

CHI-SQUARED PROBABILITY (%): 46.5

MEAN (RhoS/RhoI) +/- 1 SE: 0.615 +/- 0.0261

FCT-1, U26Z-2

=====
 =====Zfactor Program v. 1.2 (Brandon 3/18/95)=====
 DATE/TIME: 03-07-2003/13:25:55 FILENAME:
 C:\DOCUME~1\GUEST\DESKTOP\FT\SEP\STD\FCT1_26.TXT
 FCT-1, U26Z-2, Perry, 28/2/03

AGE (MA) AND STANDARD ERROR (MY) OF AGE STANDARD: 27.90 0.50
 TRACK DENSITY FOR GLASS STANDARD (TRACKS/CM²): 3.036E+05
 RELATIVE STANDARD ERROR FOR GLASS DENSITY (%): 2.26
 SIZE OF COUNTING SQUARE (CM²): 6.890E-07

----- ZETA FOR GRAINS OF AGE STANDARD -----

Grain no.	RhoS (cm ⁻²)	(Ns)	RhoI (cm ⁻²)	(Ni)	Squares	Zeta (yr cm ²)	Grain-only SE	Total SE
1	4.935E+06	(68)	6.531E+06	(90)	20	243.78	39.6	39.8
2	2.758E+06	(38)	6.967E+06	(96)	20	465.33	89.8	90.2
3	4.499E+06	(62)	9.361E+06	(129)	20	383.24	59.9	60.2
4	6.047E+06	(50)	1.476E+07	(122)	12	449.43	76.1	76.6
5	3.048E+06	(42)	7.837E+06	(108)	20	473.64	86.8	87.2
6	5.588E+06	(77)	1.147E+07	(158)	20	377.95	53.2	53.7
7	5.515E+06	(76)	1.038E+07	(143)	20	346.57	49.8	50.2
8	4.935E+06	(68)	1.009E+07	(139)	20	376.51	56.4	56.8
9	4.043E+06	(39)	6.531E+06	(63)	14	297.54	61.0	61.2
10	4.209E+06	(58)	7.692E+06	(106)	20	336.63	55.5	55.8
POOLED 4.510E+06(578) 9.005E+06(1154) 186						367.75	20.5	21.5
MEAN ZETA (using grain ratios)						360.81	26.4	27.2

CHI-SQUARED PROBABILITY (%): 15.3

MEAN (RhoS/RhoI) +/- 1 SE: 0.510 +/- 0.0355

FCT-3, U26Z-29

=====
 =====Zfactor Program v. 1.2 (Brandon 3/18/95)=====
 DATE/TIME: 03-08-2003/11:07:40 FILENAME:
 C:\DOCUME~1\GUEST\DESKTOP\FT\SEP\STD\FC3_26.TXT
 FCT-3, U26Z-29, Perry, 8/3/03

AGE (MA) AND STANDARD ERROR (MY) OF AGE STANDARD: 27.90 0.50
 TRACK DENSITY FOR GLASS STANDARD (TRACKS/CM²): 2.653E+05
 RELATIVE STANDARD ERROR FOR GLASS DENSITY (%): 1.75
 SIZE OF COUNTING SQUARE (CM²): 6.890E-07

----- ZETA FOR GRAINS OF AGE STANDARD -----

Grain no.	RhoS (cm ⁻²)	(Ns)	RhoI (cm ⁻²)	(Ni)	Squares	Zeta (yr cm ²)	Grain-only SE	Total SE
1	4.644E+06	(32)	7.402E+06	(51)	10	335.94	76.0	76.2
2	7.692E+06	(53)	1.306E+07	(90)	10	357.93	62.3	62.6
3	4.515E+06	(56)	8.224E+06	(102)	18	383.93	64.2	64.6
4	6.676E+06	(92)	1.154E+07	(159)	20	364.29	48.1	48.6
5	5.806E+06	(80)	9.797E+06	(135)	20	355.70	50.6	51.0
6	5.031E+06	(52)	1.103E+07	(114)	15	462.10	77.8	78.2
7	4.989E+06	(55)	8.527E+06	(94)	16	360.25	61.5	61.8
8	4.717E+06	(52)	7.801E+06	(86)	16	348.60	61.5	61.9
9	3.919E+06	(54)	8.273E+06	(114)	20	444.99	73.9	74.4
10	2.685E+06	(37)	5.660E+06	(78)	20	444.35	89.0	89.4
POOLED 4.952E+06(563) 8.999E+06(1023) 165						383.00	21.2	22.3
MEAN ZETA (using grain ratios)						381.13	15.1	16.6

CHI-SQUARED PROBABILITY (%): 91.3

MEAN (RhoS/RhoI) +/- 1 SE: 0.553 +/- 0.0196

BLK-1, U26Z-30

=====
=====Zfactor Program v. 1.2 (Brandon 3/18/95)=====
DATE/TIME: 03-07-2003/13:26:16 FILENAME:
C:\DOCUME~1\GUEST\DESKTOP\FT\SEP\STD\BL1_26.TXT
BLK-1, U26Z-30, Perry, 24/2/03

AGE (MA) AND STANDARD ERROR (MY) OF AGE STANDARD: 16.40 0.20
TRACK DENSITY FOR GLASS STANDARD (TRACKS/CM²): 2.639E+05
RELATIVE STANDARD ERROR FOR GLASS DENSITY (%): 1.76
SIZE OF COUNTING SQUARE (CM²): 6.890E-07

----- ZETA FOR GRAINS OF AGE STANDARD -----

Grain no.	RhoS (cm ⁻²)	(Ns)	RhoI (cm ⁻²)	(Ni)	Squares	Zeta (yr cm ²)	Grain-only SE	Total SE
1	1.129E+06	(70)	3.032E+06	(188)	90	334.23	47.2	47.3
2	5.806E+05	(32)	2.703E+06	(149)	80	579.46	113.4	113.6
3	1.111E+06	(49)	3.606E+06	(159)	64	403.82	66.4	66.5
4	8.128E+05	(28)	3.367E+06	(116)	50	515.57	108.9	109.1
5	7.438E+05	(41)	3.610E+06	(199)	80	604.03	104.1	104.4
6	1.234E+06	(17)	2.467E+06	(34)	20	248.90	74.1	74.1
7	8.418E+05	(29)	2.409E+06	(83)	50	356.18	77.1	77.2
8	9.918E+05	(41)	3.072E+06	(127)	60	385.48	69.6	69.7
9	8.418E+05	(29)	3.251E+06	(112)	50	480.63	100.5	100.7
10	9.353E+05	(29)	3.806E+06	(118)	45	506.37	105.3	105.5

POOLED 8.994E+05(365) 3.166E+06(1285) 589 438.12 27.1 27.6
MEAN ZETA (using grain ratios) 412.13 39.4 39.7

CHI-SQUARED PROBABILITY (%): 6.6

MEAN (RhoS/RhoI) +/- 1 SE: 0.302 +/- 0.0284

FCT-2, U27Z-18

=====Zfactor Program v. 1.2 (Brandon 3/18/95)=====

DATE/TIME: 09-11-2003/14:19:04 FILENAME:
 C:\DOCUME~1\GUEST\DESKTOP\FT\SEP\STD\FC2_27.TXT
 FCT-2, U27Z-18, Perry, 11/4/03

AGE (MA) AND STANDARD ERROR (MY) OF AGE STANDARD: 27.90 0.50
 TRACK DENSITY FOR GLASS STANDARD (TRACKS/CM^2): 2.856E+05
 RELATIVE STANDARD ERROR FOR GLASS DENSITY (%): 1.68
 SIZE OF COUNTING SQUARE (CM^2): 6.890E-07

----- ZETA FOR GRAINS OF AGE STANDARD -----

Grain no.	RhoS (cm^-2)	(Ns)	RhoI (cm^-2)	(Ni)	Squares	Zeta (yr cm^2)	Grain-only SE	Total SE
1	6.096E+06	(84)	1.089E+07	(150)	20	349.65	48.0	48.4
2	4.862E+06	(67)	9.652E+06	(133)	20	388.68	58.6	59.0
3	6.410E+06	(53)	1.306E+07	(108)	12	398.99	67.3	67.6
4	4.112E+06	(34)	7.257E+06	(60)	12	345.53	74.4	74.7
5	4.082E+06	(45)	8.527E+06	(94)	16	409.01	74.5	74.8
6	3.356E+06	(37)	7.438E+06	(82)	16	433.94	86.2	86.6
7	2.661E+06	(22)	5.564E+06	(46)	12	409.40	106.3	106.6
8	4.769E+06	(46)	9.434E+06	(91)	14	387.35	70.4	70.7
9	3.006E+06	(29)	5.391E+06	(52)	14	351.09	81.6	81.8
10	3.266E+06	(27)	7.499E+06	(62)	12	449.62	103.9	104.3
11	4.112E+06	(34)	7.862E+06	(65)	12	374.33	79.5	79.8
12	4.741E+06	(49)	9.482E+06	(98)	15	391.60	68.8	69.2
13	2.993E+06	(33)	6.713E+06	(74)	16	439.07	92.2	92.5
14	4.596E+06	(57)	9.676E+06	(120)	18	412.21	66.7	67.1
15	3.919E+06	(54)	6.821E+06	(94)	20	340.84	58.5	58.8

POOLED 4.253E+06(671) 8.423E+06(1329) 229 387.81 19.5 20.7
 MEAN ZETA (using grain ratios) 389.19 11.1 13.1

CHI-SQUARED PROBABILITY (%): 99.9

MEAN (RhoS/RhoI) +/- 1 SE: 0.503 +/- 0.0116

BLK-1, U27Z-16

=====Zfactor Program v. 1.2 (Brandon 3/18/95)=====

DATE/TIME: 04-02-2003/12:40:13 FILENAME:
C:\DOCUME~1\GUEST\DESKTOP\FT\SEP\STD\BL1_27.TXT
BLK-1, u27z-16, Perry, 2/4/03

AGE (MA) AND STANDARD ERROR (MY) OF AGE STANDARD: 16.40 0.20
TRACK DENSITY FOR GLASS STANDARD (TRACKS/CM²): 2.900E+05
RELATIVE STANDARD ERROR FOR GLASS DENSITY (%): 1.67
SIZE OF COUNTING SQUARE (CM²): 6.890E-07

----- ZETA FOR GRAINS OF AGE STANDARD -----

Grain no.	RhoS (cm ⁻²)	(Ns)	RhoI (cm ⁻²)	(Ni)	Squares	Zeta (yr cm ²)	Grain-only SE	Total SE
1	1.693E+06	(28)	5.201E+06	(86)	24	347.83	75.9	76.0
2	1.935E+06	(32)	6.168E+06	(102)	24	360.98	73.4	73.5
3	1.524E+06	(21)	4.064E+06	(56)	20	301.99	77.4	77.5
4	1.887E+06	(26)	5.951E+06	(82)	20	357.16	80.6	80.7
5	1.451E+06	(20)	4.282E+06	(59)	20	334.08	86.6	86.7
6	1.410E+06	(34)	4.354E+06	(105)	35	349.73	69.3	69.4
7	1.106E+06	(48)	4.585E+06	(199)	63	469.50	75.9	76.1
8	2.612E+06	(36)	6.313E+06	(87)	20	273.68	54.4	54.5
9	1.161E+06	(20)	5.515E+06	(95)	25	537.93	132.6	132.8
10	7.050E+05	(17)	2.571E+06	(62)	35	413.02	113.3	113.4
POOLED	1.431E+06	(282)	4.735E+06	(933)	286	374.68	26.2	26.6
MEAN ZETA (using grain ratios)						361.36	22.6	23.0

CHI-SQUARED PROBABILITY (%): 52.9

MEAN (RhoS/RhoI) +/- 1 SE: 0.313 +/- 0.0189

FCT-1, U30Z-18

=====Zfactor Program v. 1.2 (Brandon 3/18/95)=====

DATE/TIME: 10-03-2003/20:58:37 FILENAME:

C:\DOCUME~1\GUEST\DESKTOP\FT\SEP\STD\Fc1_30Z.TXT

FCT-1, U30Z-18, Perry, 3/10/03

AGE (MA) AND STANDARD ERROR (MY) OF AGE STANDARD: 27.90 0.50
 TRACK DENSITY FOR GLASS STANDARD (TRACKS/CM²): 2.985E+05
 RELATIVE STANDARD ERROR FOR GLASS DENSITY (%): 1.72
 SIZE OF COUNTING SQUARE (CM²): 6.890E-07

----- ZETA FOR GRAINS OF AGE STANDARD -----

Grain no.	RhoS (cm ⁻²)	(Ns)	RhoI (cm ⁻²)	(Ni)	Squares	Zeta (yr cm ²)	Grain-only SE	Total SE
1	5.080E+06	(35)	9.144E+06	(63)	10	337.21	71.3	71.6
2	6.676E+06	(46)	1.234E+07	(85)	10	346.17	63.6	63.9
3	5.951E+06	(82)	1.255E+07	(173)	20	395.24	53.4	53.9
4	4.112E+06	(34)	7.499E+06	(62)	12	341.62	73.1	73.4
5	4.354E+06	(42)	8.708E+06	(84)	14	374.68	71.1	71.4
6	5.322E+06	(44)	1.028E+07	(85)	12	361.91	67.5	67.8
7	5.660E+06	(39)	9.579E+06	(66)	10	317.04	64.3	64.5
8	7.547E+06	(52)	1.422E+07	(98)	10	353.06	60.9	61.2
9	3.225E+06	(40)	6.854E+06	(85)	18	398.10	76.6	77.0
10	5.806E+06	(36)	1.274E+07	(79)	9	411.11	83.0	83.3

POOLED 5.225E+06(450) 1.022E+07(880) 125 366.35 22.1 23.1
 MEAN ZETA (using grain ratios) 361.34 11.4 13.1

CHI-SQUARED PROBABILITY (%): 99.5

MEAN (RhoS/RhoI) +/- 1 SE: 0.518 +/- 0.0136

FCT-2, U30Z-19

=====
=====Zfactor Program v. 1.2 (Brandon 3/18/95)=====

DATE/TIME: 10-05-2003/10:18:11 FILENAME:
C:\DOCUME~1\GUEST\DESKTOP\FT\SEP\STD\FC2_30Z.TXT
FCT-2, U30Z-19, Perry, 5/10/03

AGE (MA) AND STANDARD ERROR (MY) OF AGE STANDARD: 27.90 0.50
TRACK DENSITY FOR GLASS STANDARD (TRACKS/CM²): 2.969E+05
RELATIVE STANDARD ERROR FOR GLASS DENSITY (%): 1.71
SIZE OF COUNTING SQUARE (CM²): 6.890E-07

----- ZETA FOR GRAINS OF AGE STANDARD -----

Grain no.	RhoS (cm ⁻²)	(Ns)	RhoI (cm ⁻²)	(Ni)	Squares	Zeta (yr cm ²)	Grain-only SE	Total SE	
1	3.628E+06	(25)	7.837E+06	(54)	10	406.83	98.7	98.9	
2	3.048E+06	(42)	6.676E+06	(92)	20	412.57	77.2	77.5	
3	9.192E+06	(38)	1.669E+07	(69)	6	342.00	69.3	69.6	
4	2.322E+06	(16)	6.096E+06	(42)	10	494.42	145.5	145.8	
5	2.830E+06	(39)	6.459E+06	(89)	20	429.82	82.9	83.2	
6	7.620E+06	(42)	1.343E+07	(74)	8	331.85	64.4	64.6	
7	3.774E+06	(26)	7.402E+06	(51)	10	369.45	89.3	89.5	
8	2.032E+06	(14)	4.499E+06	(31)	10	417.06	134.5	134.7	
9	2.580E+06	(32)	5.725E+06	(71)	18	417.90	89.3	89.6	
10	5.370E+06	(37)	7.837E+06	(54)	10	274.89	58.9	59.1	
POOLED		3.700E+06	(311)	7.459E+06	(627)	122	379.73	27.1	28.0
MEAN ZETA (using grain ratios)							380.18	22.0	23.0

CHI-SQUARED PROBABILITY (%): 84.5

MEAN (RhoS/RhoI) +/- 1 SE: 0.495 +/- 0.0274

FCT-3, U30Z-20

=====
 =====Zfactor Program v. 1.2 (Brandon 3/18/95)=====
 DATE/TIME: 10-05-2003/11:08:10 FILENAME:
 C:\DOCUME~1\GUEST\DESKTOP\FT\SEP\STD\FC3_30Z.TXT
 FCT-3, U30Z-20, Perry, 5/10/03

AGE (MA) AND STANDARD ERROR (MY) OF AGE STANDARD: 27.90 0.50
 TRACK DENSITY FOR GLASS STANDARD (TRACKS/CM²): 2.952E+05
 RELATIVE STANDARD ERROR FOR GLASS DENSITY (%): 1.70
 SIZE OF COUNTING SQUARE (CM²): 6.890E-07

----- ZETA FOR GRAINS OF AGE STANDARD -----

Grain no.	RhoS (cm ⁻²)	(Ns)	RhoI (cm ⁻²)	(Ni)	Squares	Zeta (yr cm ²)	Grain-only SE	Total SE
1	3.870E+06	(16)	7.257E+06	(30)	6	355.19	110.1	110.3
2	1.645E+06	(17)	3.870E+06	(40)	15	445.73	129.3	129.5
3	5.080E+06	(35)	7.983E+06	(55)	10	297.68	64.6	64.8
4	4.515E+06	(28)	9.192E+06	(57)	9	385.63	89.2	89.5
5	4.935E+06	(34)	9.434E+06	(65)	10	362.15	76.9	77.2
6	4.898E+06	(27)	9.434E+06	(52)	8	364.84	86.8	87.0
7	4.354E+06	(48)	8.890E+06	(98)	16	386.76	68.5	68.8
8	3.991E+06	(55)	7.039E+06	(97)	20	334.09	56.7	57.0
9	1.814E+06	(25)	3.991E+06	(55)	20	416.75	100.8	101.1
10	2.032E+06	(14)	6.386E+06	(44)	10	595.36	183.0	183.3
POOLED 3.500E+06(299) 6.941E+06(593) 124						375.70	27.4	28.2
MEAN ZETA (using grain ratios)						382.10	21.8	22.9

CHI-SQUARED PROBABILITY (%): 86.8

MEAN (RhoS/RhoI) +/- 1 SE: 0.496 +/- 0.0270

BLK-1, U30Z-16

=====
=====Zfactor Program v. 1.2 (Brandon 3/18/95)=====
DATE/TIME: 10-03-2003/22:24:41 FILENAME:
C:\DOCUME~1\GUEST\DESKTOP\FT\SEP\STD\BL1_30Z.TXT
BLK-1, U30Z-16, Perry, 3/10/03

AGE (MA) AND STANDARD ERROR (MY) OF AGE STANDARD: 16.40 0.20
TRACK DENSITY FOR GLASS STANDARD (TRACKS/CM²): 3.019E+05
RELATIVE STANDARD ERROR FOR GLASS DENSITY (%): 1.76
SIZE OF COUNTING SQUARE (CM²): 6.890E-07

----- ZETA FOR GRAINS OF AGE STANDARD -----

Grain no.	RhoS (cm ⁻²)	(Ns)	RhoI (cm ⁻²)	(Ni)	Squares	Zeta (yr cm ²)	Grain-only SE	Total SE
1	1.209E+06	(10)	3.387E+06	(28)	12	304.59	112.3	112.4
2	1.742E+06	(12)	3.919E+06	(27)	10	244.76	85.0	85.1
3	1.290E+06	(16)	3.548E+06	(44)	18	299.15	87.5	87.6
4	1.016E+06	(7)	3.193E+06	(22)	10	341.89	148.5	148.5
5	2.903E+05	(4)	1.524E+06	(21)	20	571.11	311.7	311.8
6	5.644E+05	(7)	2.500E+06	(31)	18	481.76	201.8	201.9
7	6.451E+05	(8)	2.903E+06	(36)	18	489.53	191.5	191.6
8	1.129E+06	(14)	3.064E+06	(38)	18	295.27	92.5	92.5
9	1.348E+06	(13)	3.525E+06	(34)	14	284.51	92.9	93.0
10	1.532E+06	(19)	4.193E+06	(52)	18	297.72	80.0	80.1
POOLED	1.023E+06	(110)	3.098E+06	(333)	156	329.32	36.7	36.9
MEAN ZETA (using grain ratios)						335.95	27.9	28.2

CHI-SQUARED PROBABILITY (%): 89.2

MEAN (RhoS/RhoI) +/- 1 SE: 0.324 +/- 0.0263

PST-1, U30Z-17

=====
=====Zfactor Program v. 1.2 (Brandon 3/18/95)=====
DATE/TIME: 10-09-2003/16:27:41 FILENAME:
C:\DOCUME~1\GUEST\DESKTOP\FT\SEP\STD\PST1_30Z.TXT
PST-1, U30Z-17, Perry, 8/10/03

AGE (MA) AND STANDARD ERROR (MY) OF AGE STANDARD: 18.51 0.10
TRACK DENSITY FOR GLASS STANDARD (TRACKS/CM²): 3.002E+05
RELATIVE STANDARD ERROR FOR GLASS DENSITY (%): 1.74
SIZE OF COUNTING SQUARE (CM²): 6.890E-07

----- ZETA FOR GRAINS OF AGE STANDARD -----

Grain no.	RhoS (cm ⁻²)	(Ns)	RhoI (cm ⁻²)	(Ni)	Squares	Zeta (yr cm ²)	Grain-only SE	Total SE
1	2.177E+06	(30)	6.749E+06	(93)	20	382.83	80.7	80.7
2	2.467E+06	(34)	7.547E+06	(104)	20	377.75	74.9	74.9
3	2.449E+06	(27)	8.255E+06	(91)	16	416.22	91.5	91.5
4	2.419E+06	(25)	6.773E+06	(70)	15	345.79	80.8	80.8
5	1.774E+06	(22)	4.838E+06	(60)	18	336.80	84.1	84.2
6	2.177E+06	(27)	5.241E+06	(65)	18	297.30	68.3	68.3
7	1.451E+06	(20)	3.266E+06	(45)	20	277.86	74.8	74.8
8	2.695E+06	(26)	8.294E+06	(80)	14	379.98	86.0	86.1
9	1.774E+06	(11)	4.838E+06	(30)	9	336.80	118.9	118.9
10	2.419E+06	(20)	5.080E+06	(42)	12	259.34	70.6	70.6
POOLED 2.168E+06(242) 6.092E+06(680) 162						347.01	26.7	26.7
MEAN ZETA (using grain ratios)						333.98	17.6	17.7

CHI-SQUARED PROBABILITY (%): 93.7

MEAN (RhoS/RhoI) +/- 1 SE: 0.370 +/- 0.0184

FCT-4, U35Z-35

=====Zfactor Program v. 1.2 (Brandon 3/18/95)=====

DATE/TIME: 12-06-2005/13:58:59 FILENAME:

C:\DOCUME~1\JOHNGA~1\DESKTOP\FT\SEP\STD\U35Z\FCT4_35Z.TXT

FCT-4, U35Z-35, Perry, 5/12/05

AGE (MA) AND STANDARD ERROR (MY) OF AGE STANDARD: 27.90 0.50
 TRACK DENSITY FOR GLASS STANDARD (TRACKS/CM²): 2.437E+05
 RELATIVE STANDARD ERROR FOR GLASS DENSITY (%): 1.82
 SIZE OF COUNTING SQUARE (CM²): 6.660E-07

----- ZETA FOR GRAINS OF AGE STANDARD -----

Grain no.	RhoS (cm ⁻²)	(Ns)	RhoI (cm ⁻²)	(Ni)	Squares	Zeta (yr cm ²)	Grain-only SE	Total SE
1	4.505E+06	(54)	6.256E+06	(75)	18	318.70	57.2	57.5
2	4.505E+06	(21)	8.580E+06	(40)	7	437.08	118.1	118.3
3	3.660E+06	(39)	6.757E+06	(72)	16	423.63	84.6	84.9
4	5.556E+06	(37)	1.021E+07	(68)	10	421.72	86.5	86.8
5	6.907E+06	(46)	1.411E+07	(94)	10	468.91	84.8	85.2
6	5.255E+06	(14)	1.539E+07	(41)	4	672.01	208.4	208.7
7	2.065E+06	(11)	3.754E+06	(20)	8	417.21	156.8	157.0
8	1.314E+06	(14)	2.252E+06	(24)	16	393.37	132.5	132.7
9	5.756E+06	(23)	8.509E+06	(34)	6	339.21	91.8	92.0
10	6.381E+06	(17)	1.164E+07	(31)	4	418.44	126.5	126.7

POOLED 4.186E+06(276) 7.568E+06(499) 99 414.87 32.0 32.9
 MEAN ZETA (using grain ratios) 415.71 25.5 26.5

CHI-SQUARED PROBABILITY (%): 76.2

MEAN (RhoS/RhoI) +/- 1 SE: 0.552 +/- 0.0323

BLK-2, U35Z-32

====Zfactor Program v. 1.2 (Brandon 3/18/95)=====

DATE/TIME: 12-06-2005/13:10:21 FILENAME:
C:\DOCUME~1\JOHNGA~1\DESKTOP\FT\SEP\STD\U35Z\BLK2_35Z.TXT
BLK-2, U35Z-32, Perry, 5/12/05

AGE (MA) AND STANDARD ERROR (MY) OF AGE STANDARD: 16.40 0.20
TRACK DENSITY FOR GLASS STANDARD (TRACKS/CM^2): 2.472E+05
RELATIVE STANDARD ERROR FOR GLASS DENSITY (%): 1.83
SIZE OF COUNTING SQUARE (CM^2): 6.660E-07

----- ZETA FOR GRAINS OF AGE STANDARD -----

Grain no.	RhoS (cm^-2)	(Ns)	RhoI (cm^-2)	(Ni)	Squares	Zeta (yr cm^2)	Grain-only SE	Total SE
1	1.426E+06	(38)	3.266E+06	(87)	40	304.17	59.4	59.5
2	1.201E+06	(12)	2.803E+06	(28)	15	309.99	107.1	107.2
3	1.001E+06	(20)	3.153E+06	(63)	30	418.49	107.7	107.8
4	1.001E+06	(20)	3.554E+06	(71)	30	471.64	119.7	119.8
5	1.101E+06	(33)	3.770E+06	(113)	45	454.93	90.4	90.6
6	9.295E+05	(26)	2.610E+06	(73)	42	373.02	85.5	85.6
7	1.220E+06	(26)	2.675E+06	(57)	32	291.26	69.1	69.2
8	1.051E+06	(7)	3.604E+06	(24)	10	455.50	195.8	195.9
9	1.539E+06	(41)	4.279E+06	(114)	40	369.40	67.6	67.8
10	8.258E+05	(11)	3.453E+06	(46)	20	555.58	186.7	186.9
11	1.459E+06	(34)	2.231E+06	(52)	35	203.19	45.0	45.0
12	8.759E+05	(14)	1.752E+06	(28)	24	265.71	87.1	87.2

POOLED 1.166E+06(282) 3.127E+06(756) 363 356.16 25.7 26.1
MEAN ZETA (using grain ratios) 345.59 31.0 31.3

CHI-SQUARED PROBABILITY (%): 21.3

MEAN (RhoS/RhoI) +/- 1 SE: 0.384 +/- 0.0338

BLK-3, U35Z-42

=====
=====Zfactor Program v. 1.2 (Brandon 3/18/95)=====

DATE/TIME: 12-21-2005/11:10:51 FILENAME:
C:\DOCUME~1\JOHNGA~1\DESKTOP\FT\SEP\STD\U35Z\BLK3_35Z.TXT
BLK-3, U35Z-42, Perry, 21/12/05

AGE (MA) AND STANDARD ERROR (MY) OF AGE STANDARD: 16.40 0.20
TRACK DENSITY FOR GLASS STANDARD (TRACKS/CM^2): 2.354E+05
RELATIVE STANDARD ERROR FOR GLASS DENSITY (%): 1.85
SIZE OF COUNTING SQUARE (CM^2): 6.660E-07

----- ZETA FOR GRAINS OF AGE STANDARD -----

Grain no.	RhoS (cm^-2)	(Ns)	RhoI (cm^-2)	(Ni)	Squares	Zeta (yr cm^2)	Grain-only SE	Total SE
1	1.971E+06	(21)	5.255E+06	(56)	16	372.04	95.4	95.6
2	1.426E+06	(19)	3.003E+06	(40)	20	293.72	82.0	82.1
3	1.577E+06	(21)	3.453E+06	(46)	20	305.60	80.7	80.8
4	1.189E+06	(19)	2.753E+06	(44)	24	323.09	88.9	89.0
5	1.220E+06	(13)	2.721E+06	(29)	16	311.23	104.0	104.1
6	9.760E+05	(13)	2.402E+06	(32)	20	343.42	113.1	113.2
7	8.258E+05	(11)	1.952E+06	(26)	20	329.76	118.8	118.8
8	8.258E+05	(11)	2.928E+06	(39)	20	494.64	169.1	169.2
9	1.032E+06	(11)	2.440E+06	(26)	16	329.76	118.8	118.8
10	1.426E+06	(19)	3.303E+06	(44)	20	323.09	88.9	89.0

POOLED 1.236E+06(158) 2.987E+06(382) 192 337.31 32.5 32.8
MEAN ZETA (using grain ratios) 335.95 15.2 15.7

CHI-SQUARED PROBABILITY (%): 99.3

MEAN (RhoS/RhoI) +/- 1 SE: 0.415 +/- 0.0172

PST-2, U35Z-33

=====Zfactor Program v. 1.2 (Brandon 3/18/95)=====

DATE/TIME: 12-06-2005/13:09:07 FILENAME:
 C:\DOCUME~1\JOHNGA~1\DESKTOP\FT\SEP\STD\U35Z\PST2_35Z.TXT
 PST-2, U35Z-33, Perry, 5/12/05

AGE (MA) AND STANDARD ERROR (MY) OF AGE STANDARD: 18.51 0.10
 TRACK DENSITY FOR GLASS STANDARD (TRACKS/CM²): 2.461E+05
 RELATIVE STANDARD ERROR FOR GLASS DENSITY (%): 1.83
 SIZE OF COUNTING SQUARE (CM²): 6.660E-07

----- ZETA FOR GRAINS OF AGE STANDARD -----

Grain no.	RhoS (cm ⁻²)	(Ns)	RhoI (cm ⁻²)	(Ni)	Squares	Zeta (yr cm ²)	Grain-only SE	Total SE
1	2.669E+06	(32)	6.673E+06	(80)	18	376.61	79.1	79.1
2	3.529E+06	(47)	8.784E+06	(117)	20	375.00	65.1	65.2
3	2.252E+06	(21)	5.684E+06	(53)	14	380.19	98.3	98.3
4	3.110E+06	(29)	6.221E+06	(58)	14	301.29	68.7	68.8
5	2.252E+06	(27)	7.007E+06	(84)	18	468.67	104.0	104.1
6	4.290E+06	(40)	1.051E+07	(98)	14	369.07	69.6	69.6
7	1.276E+06	(17)	3.153E+06	(42)	20	372.18	107.2	107.2
8	2.721E+06	(29)	5.537E+06	(59)	16	306.48	69.7	69.8
9	3.003E+06	(24)	7.508E+06	(60)	12	376.61	91.2	91.2
10	2.836E+06	(17)	7.674E+06	(46)	9	407.62	115.9	116.0
11	2.853E+06	(38)	5.255E+06	(70)	20	277.50	56.1	56.2
12	3.504E+06	(28)	6.381E+06	(51)	12	274.39	64.7	64.7
POOLED 2.802E+06(349) 6.568E+06(818) 187						353.08	23.5	23.6
MEAN ZETA (using grain ratios)						348.63	17.8	17.9

CHI-SQUARED PROBABILITY (%): 88.4

MEAN (RhoS/RhoI) +/- 1 SE: 0.432 +/- 0.0206

PST-3, U35Z-70

=====Zfactor Program v. 1.2 (Brandon 3/18/95)=====
DATE/TIME: 12-06-2005/13:06:52 FILENAME:
C:\DOCUME~1\JOHNGA~1\DESKTOP\FT\SEP\STD\U35Z\PST3_35Z.TXT
PST-3, U35Z-70, Perry, 6/12/05

AGE (MA) AND STANDARD ERROR (MY) OF AGE STANDARD: 18.51 0.10
TRACK DENSITY FOR GLASS STANDARD (TRACKS/CM²): 2.022E+05
RELATIVE STANDARD ERROR FOR GLASS DENSITY (%): 2.78
SIZE OF COUNTING SQUARE (CM²): 6.660E-07

----- ZETA FOR GRAINS OF AGE STANDARD -----

Grain no.	RhoS (cm ⁻²)	(Ns)	RhoI (cm ⁻²)	(Ni)	Squares	Zeta (yr cm ²)	Grain-only SE	Total SE
1	3.754E+06	(10)	6.381E+06	(17)	4	311.69	124.5	124.5
2	4.004E+06	(16)	6.507E+06	(26)	6	297.94	95.0	95.0
3	1.502E+06	(10)	2.553E+06	(17)	10	311.69	124.5	124.5
4	2.440E+06	(13)	7.320E+06	(39)	8	550.05	176.8	176.8
5	3.904E+06	(13)	6.006E+06	(20)	5	282.08	100.8	100.8
6	3.504E+06	(14)	7.508E+06	(30)	6	392.89	127.6	127.7
7	3.003E+06	(20)	6.156E+06	(41)	10	375.87	103.0	103.1
8	3.604E+06	(24)	8.559E+06	(57)	10	435.45	106.6	106.7
9	2.815E+06	(15)	6.757E+06	(36)	8	440.04	135.8	135.8
10	3.003E+06	(8)	7.883E+06	(21)	4	481.29	200.4	200.4

POOLED 3.024E+06(143) 6.429E+06(304) 71 389.78 41.0 41.0
MEAN ZETA (using grain ratios) 370.53 27.9 27.9

CHI-SQUARED PROBABILITY (%): 91.2

MEAN (RhoS/RhoI) +/- 1 SE: 0.495 +/- 0.0346

Fluence Calculations - U18Z

=====
=====Fluence Program v. 1.1 (Brandon 7/6/97)=====

DATE/TIME: 02-24-2003/10:03:10

U18Z Glasses, Perry 16/2/03

=====
=====INTERPOLATED TRACK DENSITY USING A PAIR OF GLASS STANDARDS=====

-----POSITION IN PACKAGE----- -----EFFECTIVE VALUES AT POSITION-----

Monitor Label	Position	Distance(%)	Nd	RhoD (t/cm ²)	RE[RhoD](%)
FIRST MONITOR:	28	0.0	1699	2.740E+05	2.43
	27	3.7	1708	2.755E+05	2.33
	26	7.4	1718	2.770E+05	2.23
	25	11.1	1727	2.786E+05	2.14
	24	14.8	1737	2.801E+05	2.06
	23	18.5	1746	2.816E+05	1.98
	22	22.2	1756	2.831E+05	1.91
	21	25.9	1765	2.846E+05	1.85
	20	29.6	1775	2.861E+05	1.79
	19	33.3	1784	2.877E+05	1.75
	18	37.0	1794	2.892E+05	1.71
	17	40.7	1803	2.907E+05	1.68
	16	44.4	1813	2.922E+05	1.66
	15	48.1	1822	2.937E+05	1.66
	14	51.9	1832	2.953E+05	1.66
	13	55.6	1841	2.968E+05	1.66
	12	59.3	1851	2.983E+05	1.68
	11	63.0	1860	2.998E+05	1.71
	10	66.7	1870	3.013E+05	1.74
	9	70.4	1879	3.029E+05	1.78
	8	74.1	1889	3.044E+05	1.82
	7	77.8	1898	3.059E+05	1.87
	6	81.5	1908	3.074E+05	1.93
	5	85.2	1917	3.089E+05	1.99
	4	88.9	1927	3.104E+05	2.05
	3	92.6	1936	3.120E+05	2.12
	2	96.3	1946	3.135E+05	2.19
SECOND MONITOR:	1	100.0	1955	3.150E+05	2.26

Fluence Calculations - U19Z - (SR Johnston Fluence)

=====Fluence Program v. 1.1 (Brandon 7/6/97)=====

DATE/TIME: 02-24-2003/10:03:10

U19Z Glasses, Perry 16/2/03 (SR Johnston Fluence)

=====INTERPOLATED TRACK DENSITY USING A PAIR OF GLASS STANDARDS=====

-----POSITION IN PACKAGE-----			-----EFFECTIVE VALUES AT POSITION-----		
Monitor Label	Position	Distance(%)	Nd	RhoD (t/cm ²)	RE[RhoD](%)
FIRST MONITOR:	1	0.0	4231	3.170E+05	1.54
SECOND MONITOR:	2	100.0	4321	3.170E+05	1.54

Fluence Calculations - U21Z

=====
=====Fluence Program v. 1.1 (Brandon 7/6/97)=====

DATE/TIME: 02-25-2003/13:53:47

U21Z, Glasses, Perry, 24/2/03

=====
=====INTERPOLATED TRACK DENSITY USING A PAIR OF GLASS STANDARDS=====

-----POSITION IN PACKAGE----- -----EFFECTIVE VALUES AT POSITION-----

Monitor Label	Position	Distance(%)	Nd	RhoD (t/cm ²)	RE[RhoD](%)
FIRST MONITOR:	1	0.0	1866	3.010E+05	2.31
	2	2.0	1859	2.999E+05	2.28
	3	3.9	1852	2.988E+05	2.24
	4	5.9	1846	2.977E+05	2.21
	5	7.8	1839	2.966E+05	2.17
	6	9.8	1832	2.955E+05	2.14
	7	11.8	1825	2.944E+05	2.10
	8	13.7	1818	2.933E+05	2.07
	9	15.7	1811	2.922E+05	2.04
	10	17.6	1805	2.911E+05	2.01
	11	19.6	1798	2.900E+05	1.98
	12	21.6	1791	2.889E+05	1.95
	13	23.5	1784	2.878E+05	1.92
	14	25.5	1777	2.867E+05	1.90
	15	27.5	1770	2.856E+05	1.87
	16	29.4	1764	2.845E+05	1.85
	17	31.4	1757	2.834E+05	1.83
	18	33.3	1750	2.823E+05	1.81
	19	35.3	1743	2.812E+05	1.79
	20	37.3	1736	2.801E+05	1.77
	21	39.2	1730	2.790E+05	1.76
	22	41.2	1723	2.779E+05	1.74
	23	43.1	1716	2.768E+05	1.73
	24	45.1	1709	2.757E+05	1.73
	25	47.1	1702	2.746E+05	1.72
	26	49.0	1695	2.735E+05	1.72
	27	51.0	1689	2.725E+05	1.72
	28	52.9	1682	2.714E+05	1.72
	29	54.9	1675	2.703E+05	1.73
	30	56.9	1668	2.692E+05	1.74
	31	58.8	1661	2.681E+05	1.75
	32	60.8	1654	2.670E+05	1.76
	33	62.7	1648	2.659E+05	1.78
	34	64.7	1641	2.648E+05	1.80
	35	66.7	1634	2.637E+05	1.82
	36	68.6	1627	2.626E+05	1.84
	37	70.6	1620	2.615E+05	1.87
	38	72.5	1614	2.604E+05	1.90
	39	74.5	1607	2.593E+05	1.93
	40	76.5	1600	2.582E+05	1.97
	41	78.4	1593	2.571E+05	2.01
	42	80.4	1586	2.560E+05	2.05
	43	82.4	1579	2.549E+05	2.09
	44	84.3	1573	2.538E+05	2.13
	45	86.3	1566	2.527E+05	2.18
	46	88.2	1559	2.516E+05	2.23
	47	90.2	1552	2.505E+05	2.28
	48	92.2	1545	2.494E+05	2.33
	49	94.1	1538	2.483E+05	2.39
	50	96.1	1532	2.472E+05	2.45
	51	98.0	1525	2.461E+05	2.51
SECOND MONITOR:	52	100.0	1518	2.450E+05	2.57

Fluence Calculations- U26Z

=====
=====Fluence Program v. 1.1 (Brandon 7/6/97)=====

DATE/TIME: 03-07-2003/13:12:51

U26Z, Glasses, Perry 28/2/03

=====
=====INTERPOLATED TRACK DENSITY USING A PAIR OF GLASS STANDARDS=====

-----POSITION IN PACKAGE----- -----EFFECTIVE VALUES AT POSITION-----

Monitor Label	Position	Distance(%)	Nd	RhoD (t/cm^2)	RE[RhoD](%)
FIRST MONITOR:	49	0.0	1472	2.370E+05	2.61
	48	2.1	1481	2.384E+05	2.54
	47	4.2	1490	2.398E+05	2.47
	46	6.3	1498	2.412E+05	2.41
	45	8.3	1507	2.427E+05	2.35
	44	10.4	1516	2.441E+05	2.29
	43	12.5	1525	2.455E+05	2.23
	42	14.6	1533	2.469E+05	2.18
	41	16.7	1542	2.483E+05	2.13
	40	18.8	1551	2.497E+05	2.08
	39	20.8	1560	2.512E+05	2.03
	38	22.9	1568	2.526E+05	1.99
	37	25.0	1577	2.540E+05	1.95
	36	27.1	1586	2.554E+05	1.91
	35	29.2	1595	2.568E+05	1.88
	34	31.3	1603	2.582E+05	1.85
	33	33.3	1612	2.597E+05	1.82
	32	35.4	1621	2.611E+05	1.80
	31	37.5	1630	2.625E+05	1.78
	30	39.6	1638	2.639E+05	1.76
	29	41.7	1647	2.653E+05	1.75
	28	43.8	1656	2.668E+05	1.74
	27	45.8	1665	2.682E+05	1.73
	26	47.9	1673	2.696E+05	1.73
	25	50.0	1682	2.710E+05	1.72
	24	52.1	1691	2.724E+05	1.73
	23	54.2	1700	2.738E+05	1.73
	22	56.3	1708	2.753E+05	1.74
	21	58.3	1717	2.767E+05	1.75
	20	60.4	1726	2.781E+05	1.76
	19	62.5	1735	2.795E+05	1.77
	18	64.6	1743	2.809E+05	1.79
	17	66.7	1752	2.823E+05	1.81
	16	68.8	1761	2.838E+05	1.83
	15	70.8	1770	2.852E+05	1.85
	14	72.9	1778	2.866E+05	1.88
	13	75.0	1787	2.880E+05	1.90
	12	77.1	1796	2.894E+05	1.93
	11	79.2	1805	2.908E+05	1.96
	10	81.3	1813	2.923E+05	1.99
	9	83.3	1822	2.937E+05	2.02
	8	85.4	1831	2.951E+05	2.05
	7	87.5	1840	2.965E+05	2.09
	6	89.6	1848	2.979E+05	2.12
	5	91.7	1857	2.993E+05	2.15
	4	93.8	1866	3.008E+05	2.19
	3	95.8	1875	3.022E+05	2.23
	2	97.9	1883	3.036E+05	2.26
SECOND MONITOR:	1	100.0	1892	3.050E+05	2.30

Fluence Calculations - U27Z

=====
=====Fluence Program v. 1.1 (Brandon 7/6/97)=====
DATE/TIME: 04-02-2003/11:05:36
U27Z, Glasses, Perry 2/4/03

=====
=====INTERPOLATED TRACK DENSITY USING A PAIR OF GLASS STANDARDS=====

-----POSITION IN PACKAGE-----			-----EFFECTIVE VALUES AT POSITION----		
Monitor Label	Position	Distance(%)	Nd	RhoD (t/cm^2)	RE[RhoD](%)
FIRST MONITOR:	1	0.0	2005	3.230E+05	2.23
	2	3.3	1991	3.208E+05	2.17
	3	6.7	1978	3.186E+05	2.12
	4	10.0	1964	3.164E+05	2.06
	5	13.3	1950	3.142E+05	2.01
	6	16.7	1937	3.120E+05	1.96
	7	20.0	1923	3.098E+05	1.91
	8	23.3	1909	3.076E+05	1.86
	9	26.7	1896	3.054E+05	1.82
	10	30.0	1882	3.032E+05	1.78
	11	33.3	1868	3.010E+05	1.75
	12	36.7	1855	2.988E+05	1.72
	13	40.0	1841	2.966E+05	1.70
	14	43.3	1827	2.944E+05	1.68
	15	46.7	1814	2.922E+05	1.67
	16	50.0	1800	2.900E+05	1.67
	17	53.3	1786	2.878E+05	1.67
	18	56.7	1773	2.856E+05	1.68
	19	60.0	1759	2.834E+05	1.70
	20	63.3	1745	2.812E+05	1.73
	21	66.7	1732	2.790E+05	1.76
	22	70.0	1718	2.768E+05	1.81
	23	73.3	1704	2.746E+05	1.86
	24	76.7	1691	2.724E+05	1.91
	25	80.0	1677	2.702E+05	1.98
	26	83.3	1663	2.680E+05	2.05
	27	86.7	1650	2.658E+05	2.13
	28	90.0	1636	2.636E+05	2.21
	29	93.3	1622	2.614E+05	2.31
	30	96.7	1609	2.592E+05	2.40
SECOND MONITOR:	31	100.0	1595	2.570E+05	2.50

Fluence Calculations - U30Z

=====**Fluence Program v. 1.1 (Brandon 7/6/97)**=====

DATE/TIME: 09-28-2003/15:58:47

U30Z, Glasses, Perry 28/9/03

=====**INTERPOLATED TRACK DENSITY USING A PAIR OF GLASS STANDARDS**=====

-----**POSITION IN PACKAGE**----- -----**EFFECTIVE VALUES AT POSITION**-----

Monitor Label	Position	Distance(%)	Nd	RhoD (t/cm ²)	RE[RhoD] (%)
FIRST MONITOR:	1	0.0	2026	3.270E+05	2.22
	2	2.2	2016	3.253E+05	2.18
	3	4.3	2005	3.237E+05	2.15
	4	6.5	1995	3.220E+05	2.11
	5	8.7	1984	3.203E+05	2.08
	6	10.9	1974	3.186E+05	2.04
	7	13.0	1964	3.170E+05	2.01
	8	15.2	1953	3.153E+05	1.98
	9	17.4	1943	3.136E+05	1.95
	10	19.6	1932	3.119E+05	1.92
	11	21.7	1922	3.103E+05	1.89
	12	23.9	1912	3.086E+05	1.86
	13	26.1	1901	3.069E+05	1.83
	14	28.3	1891	3.052E+05	1.81
	15	30.4	1881	3.036E+05	1.78
	16	32.6	1870	3.019E+05	1.76
	17	34.8	1860	3.002E+05	1.74
	18	37.0	1849	2.985E+05	1.72
	19	39.1	1839	2.969E+05	1.71
	20	41.3	1829	2.952E+05	1.70
	21	43.5	1818	2.935E+05	1.69
	22	45.7	1808	2.918E+05	1.68
	23	47.8	1797	2.902E+05	1.67
	24	50.0	1787	2.885E+05	1.67
	25	52.2	1777	2.868E+05	1.67
	26	54.3	1766	2.852E+05	1.68
	27	56.5	1756	2.835E+05	1.69
	28	58.7	1745	2.818E+05	1.70
	29	60.9	1735	2.801E+05	1.71
	30	63.0	1725	2.785E+05	1.73
	31	65.2	1714	2.768E+05	1.75
	32	67.4	1704	2.751E+05	1.78
	33	69.6	1693	2.734E+05	1.81
	34	71.7	1683	2.718E+05	1.84
	35	73.9	1673	2.701E+05	1.88
	36	76.1	1662	2.684E+05	1.91
	37	78.3	1652	2.667E+05	1.96
	38	80.4	1642	2.651E+05	2.00
	39	82.6	1631	2.634E+05	2.05
	40	84.8	1621	2.617E+05	2.10
	41	87.0	1610	2.600E+05	2.16
	42	89.1	1600	2.584E+05	2.21
	43	91.3	1590	2.567E+05	2.27
	44	93.5	1579	2.550E+05	2.34
	45	95.7	1569	2.533E+05	2.40
	46	97.8	1558	2.517E+05	2.47
SECOND MONITOR:	47	100.0	1548	2.500E+05	2.54

Fluence Calculations - U35Z

=====
=====Fluence Program v. 1.1 (Brandon 7/6/97)=====
DATE/TIME: 12-06-2005/12:58:49
U35Z, Glasses, Perry, 6/12/05, Alaska

=====
=====INTERPOLATED TRACK DENSITY USING A PAIR OF GLASS STANDARDS=====

Monitor Label	Position	Distance(%)	Nd	RhoD (t/cm ²)	RE[RhoD](%)
FIRST MONITOR:	1	0.0	1762	2.840E+05	2.38
	2	1.4	1755	2.828E+05	2.36
	3	2.9	1747	2.816E+05	2.33
	4	4.3	1740	2.804E+05	2.31
	5	5.7	1732	2.793E+05	2.29
	6	7.1	1725	2.781E+05	2.26
	7	8.6	1718	2.769E+05	2.24
	8	10.0	1710	2.757E+05	2.22
	9	11.4	1703	2.745E+05	2.20
	10	12.9	1696	2.733E+05	2.17
	11	14.3	1688	2.721E+05	2.15
	12	15.7	1681	2.710E+05	2.13
	13	17.1	1673	2.698E+05	2.11
	14	18.6	1666	2.686E+05	2.09
	15	20.0	1659	2.674E+05	2.07
	16	21.4	1651	2.662E+05	2.05
	17	22.9	1644	2.650E+05	2.03
	18	24.3	1636	2.638E+05	2.01
	19	25.7	1629	2.627E+05	1.99
	20	27.1	1622	2.615E+05	1.98
	21	28.6	1614	2.603E+05	1.96
	22	30.0	1607	2.591E+05	1.94
	23	31.4	1600	2.579E+05	1.93
	24	32.9	1592	2.567E+05	1.91
	25	34.3	1585	2.555E+05	1.90
	26	35.7	1577	2.544E+05	1.89
	27	37.1	1570	2.532E+05	1.88
	28	38.6	1563	2.520E+05	1.87
	29	40.0	1555	2.508E+05	1.86
	30	41.4	1548	2.496E+05	1.85
	31	42.9	1540	2.484E+05	1.84
	32	44.3	1533	2.472E+05	1.83
	33	45.7	1526	2.461E+05	1.83
	34	47.1	1518	2.449E+05	1.83
	35	48.6	1511	2.437E+05	1.82
	36	50.0	1504	2.425E+05	1.82
	37	51.4	1496	2.413E+05	1.82
	38	52.9	1489	2.401E+05	1.83
	39	54.3	1481	2.389E+05	1.83
	40	55.7	1474	2.378E+05	1.84
	41	57.1	1467	2.366E+05	1.84
	42	58.6	1459	2.354E+05	1.85
	43	60.0	1452	2.342E+05	1.86
	44	61.4	1444	2.330E+05	1.87
	45	62.9	1437	2.318E+05	1.89
	46	64.3	1430	2.306E+05	1.90
	47	65.7	1422	2.295E+05	1.92
	48	67.1	1415	2.283E+05	1.94
	49	68.6	1407	2.271E+05	1.96
	50	70.0	1400	2.259E+05	1.98
	51	71.4	1393	2.247E+05	2.00
	52	72.9	1385	2.235E+05	2.03
	53	74.3	1378	2.223E+05	2.06
	54	75.7	1371	2.212E+05	2.09

	55	77.1	1363	2.200E+05	2.12
	56	78.6	1356	2.188E+05	2.15
	57	80.0	1348	2.176E+05	2.18
	58	81.4	1341	2.164E+05	2.22
	59	82.9	1334	2.152E+05	2.26
	60	84.3	1326	2.140E+05	2.30
	61	85.7	1319	2.129E+05	2.34
	62	87.1	1311	2.117E+05	2.38
	63	88.6	1304	2.105E+05	2.43
	64	90.0	1297	2.093E+05	2.47
	65	91.4	1289	2.081E+05	2.52
	66	92.9	1282	2.069E+05	2.57
	67	94.3	1275	2.057E+05	2.62
	68	95.7	1267	2.046E+05	2.67
	69	97.1	1260	2.034E+05	2.72
	70	98.6	1252	2.022E+05	2.78
SECOND MONITOR:	71	100.0	1245	2.010E+05	2.83

Union College, Irradiation 35Z, October 2005-Zircon

U35Z-Kamchatka (Sredinny Range), Alaska (Robinson Mountains)

Position	Sample	Material	Regular etch						Quality	Total	Rho-D
			Target hr	hr	hr	hr	hr	hr			
U35Z		Fleischer Package wrapped in foil									
U35Z	71 CN5-E	Glass Monitor	U.Glass	x	x						0
U35Z	70 PST-3	Standard	Zircon		30						30
U35Z	69 FCT-6	Standard	Zircon		26						26
U35Z	68 05-08b	Volcaniclastic ss-Alaska	Zircon		15	5					20
U35Z	67 05-08a	Volcaniclastic ss-Alaska	Zircon		15	3					18
U35Z	66 05-17b	Kulthieth Fm.- Alaska	Zircon		15	3					18
U35Z	65 05-17a	Kulthieth Fm.- Alaska	Zircon		15						15
U35Z	64 05-16b	Poul Creek- Alaska	Zircon		15	3					18
U35Z	63 05-16a	Poul Creek- Alaska	Zircon		15						15
U35Z	62 05-13b	Poul Creek- Alaska	Zircon		15						15
U35Z	61 05-13a	Poul Creek- Alaska	Zircon		15						15
U35Z	60 05-12b	Yakataga Fm.- Alaska	Zircon		15	5					20
U35Z	59 05-12a	Yakataga Fm.- Alaska	Zircon		15						15
U35Z	58 05-11b	Yakataga Fm.- Alaska	Zircon		15	5					20
U35Z	57 05-11a	Yakataga Fm.- Alaska	Zircon		15						15
U35Z	56 05-10b	Yakataga Fm.- Alaska	Zircon		15	5					20
U35Z	55 05-10a	Yakataga Fm.- Alaska	Zircon		15						15
U35Z	54 05-09a	Yakataga Fm.- Alaska	Zircon		15	3					18
U35Z	53 05-07b	Poul Creek- Alaska	Zircon		15	3					18
U35Z	52 05-07a	Poul Creek- Alaska	Zircon		15						15
U35Z	51 05-06a	Kulthieth Fm.- Alaska	Zircon		15	3					18
U35Z	50 05-04b	Kulthieth Fm.- Alaska	Zircon		15	3					18
U35Z	49 05-04a	Kulthieth Fm.- Alaska	Zircon		15						15
U35Z	48 05-03b	Kulthieth Fm.- Alaska	Zircon		15	3					18
U35Z	47 05-03a	Kulthieth Fm.- Alaska	Zircon		15						15
U35Z	46 05-01b	Kulthieth Fm.- Alaska	Zircon		15	3					18
U35Z	45 05-01a	Kulthieth Fm.- Alaska	Zircon		15						15
U35Z	44 FCT-5	Standard	Zircon		26						26
U35Z	43 CN5-D	Glass Monitor	Zircon	x	x						0
U35Z	42 BLK-3	Standard	Zircon		30						30
U35Z	41 FCT-3	Standard	Zircon		26						26
U35Z	40 DK 3a	Duktoth River	Zircon		15	5					20
U35Z	39 KL 2b	Kulthieth River	Zircon		15	5					20
U35Z	38 KL 2a	Kulthieth River	Zircon		15						15
U35Z	37 KA 1b	Kaliakh River	Zircon		15	10					25
U35Z	36 KA 1a	Kaliakh River	Zircon		15	5					20
U35Z	35 FCT-4	Standard	Zircon		26						26
U35Z	34 CN5-C	Glass Monitor	U. Glass	x	x						0
U35Z	33 PST-2	Standard	Zircon		30						30
U35Z	32 BLK-2	Standard	Zircon		30						30
U35Z	31 FCT-2	Standard	Zircon		26						26
U35Z	30 53/1-02b	SS- Arctic	Zircon		8	7	4			good	19
U35Z	29 53/1-02a	SS- Arctic	Zircon		8	4	10	4		good	26
U35Z	28 51/1-02b	SS- Arctic	Zircon		8	7	4			good	19
U35Z	27 51/1-02a	SS- Arctic	Zircon		8	4	10	4		good	26
U35Z	26 04AS-75	Gneiss- Kamchatka	Zircon	24	1					good	25
U35Z	25 04AS-47	Gneiss- Kamchatka	Zircon	10						bad	10
U35Z	24 04AS-32	Schist- Kamchatka	Zircon	10	4	8	4	4		good	30
U35Z	23 04JH-64	Gneiss- Kamchatka	Zircon	10	4	4	4			good	22
U35Z	22 04JH-49	Schist- Kamchatka	Zircon	10	4	4	4			good	22
U35Z	21 04JH-37A	Granite- Kamchatka	Zircon	10	4	4				good	18
U35Z	20 04JH-32	Gneiss- Kamchatka	Zircon	24	1					good	25
U35Z	19 M-00422/5	Granite- Kamchatka	Zircon	24	1					good	25
U35Z	18 M-00416/1	Granite- Kamchatka	Zircon	10	8	4	4	2		good	28
U35Z	17 M-0042/1	Granite- Kamchatka	Zircon	10	8	4	4	2		good	28
U35Z	16 04JH-80	Gneiss- Kamchatka	Zircon	24	1					good	25
U35Z	15 04AS-99	Granite- Kamchatka	Zircon	10	4	4	4			good	22
U35Z	14 04AS-76	Granite- Kamchatka	Zircon	10	8	4	4			good	26
U35Z	13 04AS-54	Granite- Kamchatka	Zircon	10	8	8	4	2		good	32
U35Z	12 04AS-46	Granite- Kamchatka	Zircon	24	1					good	25
U35Z	11 04AS-31	Granite- Kamchatka	Zircon	10	8	4	4	5	4	8	43
U35Z	10 04AS-69	Granite- Kamchatka	Zircon	24	1					good	25
U35Z	9 04AS-68A	Granite- Kamchatka	Zircon	10	4	4	4			good	22
U35Z	8 04AS-68	Granite- Kamchatka	Zircon	10						good	10
U35Z	7 04AS-67	Granite- Kamchatka	Zircon	10	4					good	14
U35Z	6 04AS-66	Granite- Kamchatka	Zircon	10	4					good	14
U35Z	5 04AS-62	Granite- Kamchatka	Zircon	10	4	4	4			good	22
U35Z	4 PST-1	Standard	Zircon		30						30
U35Z	3 BLK-1	Standard	Zircon		24	8					32
U35Z	2 FCT-1	Standard	Zircon		26						26
U35Z	1 CN5-B	Glass Monitor	U. Glass	x	x						0