

Table DR12 Raw data of apatite fission track ages

Sample Number	722B-50X-1W	Mineral	Apatite
Position (#)	42	Glass (U ppm)	12.2
Area of Graticule Square	3.9476E-07	Irradiation	UA17-1
No. of Crystals	93	Analyst	HF
Zeta Factor ± Error	343±23	Count Date	2017-12-4
Rho d (% Relative Error)	1.3463E+06	Locality	Indus Fan
Nd	2777	Depositional age	15.8 Ma

	Ns	Ni	Age (Ma)	Age error
1	16	127	29.02	7.96
2	3	61	11.35	6.76
3	19	195	22.46	5.62
4	5	74	15.58	7.28
5	43	448	22.12	3.85
6	49	414	27.27	4.54
7	2	11	41.84	32.30
8	39	434	20.71	3.75
9	11	145	17.49	5.60
10	5	116	9.94	4.59
11	2	15	30.71	23.22
12	6	46	30.05	13.21
13	27	328	18.98	4.02
14	5	125	9.23	4.26
15	13	140	21.40	6.38
16	4	73	12.64	6.55
17	14	100	32.24	9.47
18	8	115	16.04	5.97
19	4	76	12.14	6.29
20	33	459	16.58	3.20
21	7	69	23.38	9.42
22	4	81	11.39	5.89
23	3	122	5.68	3.34
24	7	66	24.44	9.86
25	18	110	37.67	9.93
26	4	17	54.10	30.30
27	4	22	41.84	22.93
28	20	235	19.62	4.77
29	9	101	20.54	7.29
30	5	35	32.90	15.90
31	2	22	20.96	15.55
32	4	141	6.55	3.35
33	12	102	27.11	8.49
34	3	25	27.65	17.00
35	36	337	24.62	4.64
36	10	29	79.13	29.54
37	34	233	33.60	6.60
38	10	173	13.33	4.43
39	15	232	14.91	4.11
40	4	75	12.30	6.37
41	4	60	15.37	8.01
42	7	153	10.55	4.15
43	11	68	37.24	12.38
44	23	228	23.25	5.34

45	25	248	23.23	5.14
46	25	267	21.58	4.76
47	7	45	35.82	14.76
48	10	119	19.37	6.52
49	39	241	37.26	6.93
50	22	239	21.22	4.95
51	19	298	14.70	3.63
52	15	95	36.35	10.41
53	21	347	13.96	3.28
54	23	190	27.89	6.46
55	10	119	19.37	6.52
56	13	82	36.50	11.19
57	34	329	23.82	4.60
58	3	20	34.54	21.52
59	20	160	28.80	7.12
60	34	499	15.71	2.99
61	3	31	22.31	13.58
62	8	122	15.12	5.62
63	4	61	15.12	7.88
64	9	110	18.86	6.67
65	5	48	24.01	11.40
66	6	30	46.01	20.83
67	1	9	25.60	27.05
68	12	174	15.90	4.87
69	10	69	33.38	11.53
70	14	212	15.23	4.33
71	14	182	17.74	5.07
72	67	700	22.06	3.21
73	2	17	27.11	20.35
74	4	44	20.96	11.04
75	19	60	72.70	19.80
76	5	117	9.86	4.55
77	47	283	38.23	6.59
78	11	145	17.49	5.60
79	4	57	16.18	8.45
80	3	37	18.69	11.30
81	6	29	47.59	21.60
82	5	61	18.90	8.89
83	27	319	19.51	4.14
84	7	46	35.04	14.42
85	4	72	12.81	6.64
86	6	171	8.10	3.41
87	18	39	105.69	31.01
88	19	169	25.91	6.52
89	2	20	23.05	17.17
90	7	109	14.81	5.87
91	5	77	14.98	6.99
92	21	227	21.32	5.09
93	13	72	41.55	12.85

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Table DR12 Raw data of apatite fission track ages

Sample Number	731B-4X-1W	Mineral	Apatite
Position (#)	40	Glass (U ppm)	12.2
Area of Graticule Square	3.9476E-07	Irradiation	UA17-1
No. of Crystals	80	Analyst	HF
Zeta Factor $\pm$ Error	343 $\pm$ 23	Count Date	2017-12-5
Rho d (% Relative Error)	1.3264E+06	Locality	Indus Fan
Nd	2777	Depositional age	18.4 Ma

	N s	N i	Age (Ma)	Age error
1	4	45	20.19	10.63
2	28	266	23.90	5.03
3	4	39	23.29	12.33
4	1	6	37.80	40.92
5	12	84	32.42	10.26
6	1	7	32.42	34.73
7	6	52	26.19	11.44
8	3	17	40.02	25.22
9	10	231	9.84	3.25
10	21	242	19.71	4.69
11	17	190	20.32	5.34
12	24	252	21.63	4.86
13	17	64	60.14	16.94
14	22	231	21.63	5.06
15	3	45	15.15	9.09
16	5	17	66.56	34.18
17	6	30	45.34	20.52
18	18	230	17.78	4.52
19	16	174	20.88	5.65
20	4	23	39.44	21.54
21	10	66	34.38	11.91
22	4	37	24.55	13.03
23	2	28	16.23	11.93
24	6	70	19.47	8.39
25	7	60	26.49	10.74
26	4	35	25.95	13.81
27	9	97	21.07	7.49
28	5	44	25.80	12.31
29	4	80	11.36	5.88
30	37	301	27.90	5.24
31	3	73	9.34	5.54
32	21	245	19.47	4.63
33	32	222	32.71	6.59
34	6	96	14.20	6.06
35	7	82	19.39	7.75
36	8	123	14.78	5.49
37	4	34	26.71	14.24
38	8	82	22.16	8.35
39	9	186	11.00	3.83
40	14	169	18.82	5.40
41	6	56	24.33	10.59
42	23	124	42.06	9.99
43	5	69	16.46	7.71
44	1	12	18.93	19.75
45	6	63	21.63	9.36

46	32	237	30.64	6.15
47	7	112	14.20	5.62
48	12	179	15.23	4.66
49	3	59	11.56	6.89
50	5	49	23.17	11.00
51	26	267	22.11	4.80
52	8	118	15.40	5.73
53	9	60	34.03	12.39
54	11	141	17.72	5.68
55	6	50	27.24	11.92
56	6	99	13.77	5.87
57	8	92	19.75	7.41
58	20	219	20.74	5.06
59	23	397	13.17	2.97
60	10	168	13.53	4.50
61	10	131	17.34	5.82
62	8	42	43.19	16.93
63	7	114	13.95	5.52
64	21	239	19.96	4.75
65	21	164	29.06	7.03
66	7	100	15.90	6.32
67	5	60	18.93	8.91
68	4	67	13.57	7.05
69	14	92	34.52	10.19
70	4	60	15.15	7.89
71	8	94	19.33	7.25
72	8	75	24.22	9.16
73	9	100	20.44	7.25
74	4	28	32.42	17.47
75	6	28	48.56	22.11
76	6	116	11.76	4.99
77	27	300	20.44	4.35
78	5	33	34.38	16.67
79	11	82	30.44	10.00
80	4	36	25.23	13.41

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Table DR12 Raw data of apatite fission track ages

Sample Number	731C-5W-4W	Mineral	Apatite
Position (#)	39	Glass (U ppm)	12.2
Area of Graticule Square	3.9476E-07	Irradiation	UA17-1
No. of Crystals	70	Analyst	HF
Zeta Factor $\pm$ Error	343 $\pm$ 23	Count Date	2017-12-6
Rho d (% Relative Error)	1.3165E+06	Locality	Indus Fan
Nd	2777	Depositional age	22.0 Ma

	N s	N i	Age (Ma)	Age error
1	18	75	53.96	14.65
2	24	105	51.40	12.17
3	10	82	27.48	9.40
4	7	63	25.04	10.13
5	10	103	21.88	7.41
6	16	116	31.07	8.56
7	13	106	27.63	8.34
8	9	62	32.69	11.88
9	30	283	23.89	4.88
10	5	50	22.54	10.69
11	15	151	22.39	6.26
12	50	280	40.19	6.78
13	16	139	25.94	7.08
14	1	4	56.20	62.95
15	3	30	22.54	13.74
16	23	225	23.04	5.29
17	6	50	27.04	11.83
18	7	69	22.86	9.21
19	23	234	22.15	5.08
20	26	279	21.01	4.55
21	18	199	20.39	5.22
22	10	58	38.81	13.56
23	15	175	19.32	5.37
24	11	128	19.37	6.24
25	15	189	17.89	4.96
26	18	190	21.35	5.47
27	3	28	24.15	14.76
28	2	24	18.79	13.89
29	60	408	33.12	5.13
30	4	62	14.55	7.57
31	6	53	25.51	11.13
32	28	299	21.11	4.42
33	1	8	28.16	29.93
34	6	61	22.17	9.61
35	1	11	20.49	21.45
36	5	85	13.27	6.18
37	3	42	16.11	9.69
38	1	7	32.17	34.47
39	1	3	74.82	86.56
40	2	18	25.04	18.74
41	25	174	32.36	7.28
42	19	128	33.43	8.54
43	15	142	23.81	6.67
44	7	57	27.67	11.25
45	2	13	34.64	26.42

46	9	40	50.60	19.00
47	15	159	21.26	5.93
48	1	7	32.17	34.47
49	14	158	19.97	5.74
50	9	84	24.15	8.63
51	9	80	25.35	9.09
52	7	71	22.22	8.94
53	9	91	22.29	7.94
54	16	120	30.03	8.26
55	5	54	20.87	9.86
56	8	59	30.54	11.70
57	3	32	21.13	12.84
58	5	36	31.28	15.09
59	24	224	24.15	5.45
60	8	60	30.03	11.50
61	25	172	32.73	7.37
62	34	322	23.80	4.60
63	14	155	20.36	5.86
64	18	130	31.19	8.14
65	18	185	21.93	5.63
66	6	74	18.28	7.86
67	6	31	43.55	19.66
68	8	80	22.54	8.50
69	13	112	26.15	7.88
70	2	12	37.52	28.78

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Table DR12 Raw data of apatite fission track ages

Sample Number	731C-8R-4W	Mineral	Apatite
Position (#)	38	Glass (U ppm)	12.2
Area of Graticule Square	3.9476E-07	Irradiation	UA17-1
No. of Crystals	70	Analyst	HF
Zeta Factor ± Error	343±23	Count Date	2017-12-9
Rho d (% Relative Error)	1.3066E+06	Locality	Indus Fan
Nd	2777	Depositional age	25.3 Ma

	Ns	Ni	Age (Ma)	Age error
1	25	141	39.61	9.03
2	22	172	28.60	6.77
3	20	210	21.31	5.20
4	8	50	35.75	13.84
5	13	81	35.86	11.00
6	15	113	29.68	8.41
7	5	28	39.89	19.57
8	8	70	25.56	9.70
9	11	55	44.66	15.08
10	9	75	26.83	9.65
11	5	29	38.52	18.84
12	8	144	12.44	4.60
13	11	73	33.68	11.14
14	2	15	29.81	22.53
15	6	40	33.52	14.86
16	37	256	32.30	6.11
17	2	16	27.95	21.05
18	14	167	18.76	5.38
19	12	82	32.71	10.36
20	19	179	23.74	5.96
21	13	111	26.19	7.89
22	8	72	24.85	9.42
23	8	68	26.31	10.00
24	8	62	28.85	11.02
25	2	11	40.61	31.35
26	15	91	36.83	10.58
27	6	66	20.34	8.79
28	22	155	31.73	7.56
29	11	92	26.74	8.73
30	4	30	29.81	16.00
31	4	32	27.95	14.95
32	4	36	24.85	13.21
33	44	333	29.54	5.17
34	7	60	26.09	10.58
35	14	132	23.72	6.87
36	20	183	24.44	6.00
37	9	62	32.45	11.79
38	5	32	34.92	16.97
39	1	7	31.93	34.21
40	12	103	26.05	8.15
41	2	17	26.31	19.75
42	2	17	26.31	19.75
43	12	107	25.08	7.83
44	1	8	27.95	29.71
45	8	53	33.73	13.01

46	8	58	30.83	11.83
47	2	17	26.31	19.75
48	2	21	21.31	15.84
49	17	108	35.18	9.50
50	17	99	38.36	10.42
51	7	70	22.37	9.00
52	3	26	25.80	15.84
53	2	18	24.85	18.60
54	41	337	27.20	4.88
55	3	25	26.83	16.50
56	6	37	36.23	16.15
57	4	34	26.31	14.03
58	6	45	29.81	13.12
59	7	49	31.93	13.09
60	2	21	21.31	15.84
61	1	7	31.93	34.21
62	8	56	31.93	12.27
63	11	81	30.36	9.98
64	8	88	20.34	7.64
65	6	52	25.80	11.27
66	1	8	27.95	29.71
67	10	73	30.62	10.54
68	17	124	30.65	8.21
69	4	33	27.10	14.47
70	10	60	37.24	12.98

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Table DR12 Raw data of apatite fission track ages

Sample Number	731C-13W-4W	Mineral	Apatite
Position (#)	36	Glass (U ppm)	12.2
Area of Graticule Square	3.9476E-07	Irradiation	UA17-1
No. of Crystals	85	Analyst	HF
Zeta Factor $\pm$ Error	343 $\pm$ 23	Count Date	2017-12-10
Rho d (% Relative Error)	1.2867E+06	Locality	Indus Fan
Nd	2777	Depositional age	27 Ma

	Ns	Ni	Age (Ma)	Age error
1	4	28	31.45	16.95
2	65	417	34.31	5.16
3	19	147	28.46	7.22
4	38	429	19.52	3.57
5	20	350	12.60	3.03
6	4	24	36.67	19.97
7	52	382	29.97	4.90
8	16	136	25.91	7.08
9	20	131	33.60	8.40
10	1	5	43.98	48.28
11	17	132	28.36	7.57
12	21	97	47.60	11.93
13	6	32	41.24	18.57
14	28	251	24.57	5.19
15	9	54	36.67	13.45
16	26	127	45.02	10.19
17	11	88	27.52	9.01
18	5	39	28.23	13.55
19	34	259	28.90	5.64
20	23	141	35.90	8.45
21	70	295	52.15	7.83
22	5	30	36.67	17.90
23	16	136	25.91	7.08
24	8	33	53.27	21.32
25	5	25	43.98	21.76
26	9	69	28.72	10.37
27	13	45	63.44	20.46
28	11	97	24.98	8.13
29	6	42	31.45	13.90
30	4	22	40.00	21.92
31	20	73	60.18	15.76
32	8	33	53.27	21.32
33	7	41	37.57	15.58
34	16	117	30.11	8.29
35	12	93	28.41	8.94
36	9	76	26.08	9.37
37	14	143	21.57	6.22
38	6	37	35.69	15.90
39	12	99	26.69	8.37
40	11	100	24.23	7.88
41	19	125	33.45	8.56
42	42	242	38.18	6.92
43	39	219	39.18	7.34
44	5	52	21.18	10.03
45	18	126	31.45	8.22

46	19	165	25.36	6.39
47	9	53	37.36	13.72
48	4	26	33.86	18.34
49	11	94	25.77	8.41
50	11	101	23.99	7.80
51	7	51	30.22	12.36
52	6	61	21.67	9.39
53	5	34	32.37	15.67
54	4	25	35.21	19.12
55	13	89	32.15	9.81
56	13	91	31.45	9.58
57	10	107	20.59	6.96
58	4	22	40.00	21.92
59	5	38	28.97	13.93
60	7	51	30.22	12.36
61	2	14	31.45	23.87
62	4	35	25.17	13.40
63	6	37	35.69	15.90
64	28	238	25.91	5.48
65	22	197	24.60	5.79
66	32	193	36.48	7.41
67	5	23	47.79	23.82
68	16	101	34.86	9.69
69	26	185	30.94	6.83
70	8	70	25.17	9.56
71	15	86	38.37	11.07
72	11	74	32.72	10.82
73	15	101	32.69	9.33
74	10	82	26.85	9.19
75	21	126	36.67	9.01
76	12	84	31.45	9.95
77	6	68	19.44	8.39
78	20	68	64.58	17.03
79	15	85	38.82	11.20
80	4	28	31.45	16.95
81	20	132	33.35	8.33
82	2	15	29.36	22.19
83	6	66	20.03	8.65
84	17	146	25.64	6.81
85	10	82	26.85	9.19

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Table DR12 Raw data of apatite fission track ages

Sample Number	731C-22R-1W	Mineral	Apatite
Position (#)	33	Glass (U ppm)	12.2
Area of Graticule Square	3.9476E-07	Irradiation	UA17-1
No. of Crystals	74	Analyst	HF
Zeta Factor $\pm$ Error	343 $\pm$ 23	Count Date	2017-12-12
Rho d (% Relative Error)	1.2569E+06	Locality	Indus Fan
Nd	2777	Depositional age	29.3 Ma

	Ns	Ni	Age (Ma)	Age error
1	17	80	45.64	12.60
2	11	67	35.29	11.74
3	5	76	14.17	6.61
4	2	8	53.67	42.59
5	27	156	37.20	8.18
6	4	30	28.68	15.39
7	13	88	31.77	9.69
8	6	36	35.83	15.99
9	8	73	23.58	8.93
10	6	75	17.22	7.40
11	14	115	26.19	7.63
12	3	11	58.52	38.33
13	6	61	21.17	9.18
14	2	7	61.30	49.33
15	7	52	28.95	11.83
16	5	28	38.38	18.82
17	8	33	52.05	20.83
18	7	32	46.98	19.88
19	6	41	31.47	13.93
20	12	56	46.03	14.99
21	2	10	42.97	33.42
22	22	143	33.08	7.92
23	30	127	50.72	10.89
24	15	71	45.38	13.28
25	3	20	32.25	20.09
26	14	84	35.83	10.64
27	18	80	48.32	13.05
28	8	54	31.86	12.27
29	12	130	19.87	6.15
30	12	64	40.29	12.98
31	2	11	39.07	30.16
32	5	19	56.48	28.66
33	2	10	42.97	33.42
34	5	38	28.30	13.61
35	25	203	26.49	5.91
36	41	202	43.60	8.06
37	18	101	38.30	10.16
38	32	283	24.33	4.84
39	8	68	25.31	9.62
40	1	4	53.67	60.12
41	12	56	46.03	14.99
42	13	66	42.32	13.18
43	5	26	41.32	20.38
44	17	88	41.51	11.37
45	6	27	47.72	21.79

46	4	37	23.26	12.35
47	10	81	26.56	9.09
48	33	143	49.55	10.17
49	5	27	39.79	19.57
50	8	26	65.99	27.07
51	15	82	39.31	11.37
52	7	52	28.95	11.83
53	13	111	25.20	7.59
54	17	106	34.48	9.32
55	17	101	36.18	9.81
56	3	16	40.29	25.50
57	6	31	41.59	18.77
58	17	133	27.49	7.34
59	5	24	44.75	22.22
60	13	95	29.43	8.94
61	2	13	33.08	25.23
62	30	189	34.12	7.12
63	10	61	35.24	12.27
64	23	117	42.24	10.07
65	3	15	42.97	27.34
66	10	83	25.92	8.86
67	17	123	29.72	7.97
68	21	178	25.38	6.12
69	22	101	46.78	11.48
70	2	11	39.07	30.16
71	31	187	35.64	7.34
72	20	85	50.52	13.04
73	8	26	65.99	27.07
74	8	30	57.23	23.12

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