



**Table 2.** Apatite fission-track age data in detrital sample POA1-3-Fundación (*continued*).

<b>Mineral</b>	<b>Apatite</b>									
<b>Glass</b>	<b>CN-5</b>									
<b>Analyst</b>	<b>Mauricio PARRA</b>									
<b>ND</b>	<b>10730</b>									
<b>RhoD</b>	<b>9.53E+05</b>									
<b>Zeta</b>	<b>351 ± 5.7</b>									
<b>Lambda D</b>	<b>1.55E-10</b>									
<b>Area</b>	<b>7.62E-07</b>									
<b>Grain</b>	<b>NS</b>	<b>NA</b>	<b>Area (cm<sup>2</sup>)</b>	<b>RhoS (cm<sup>-2</sup>)</b>	<b>Dpar</b>	<b>NI</b>	<b>RhoI (cm<sup>-2</sup>)</b>	<b>FT age</b>	<b>1σ</b>	<b>U (ppm)</b>
Grain14	23	125	9.52E-05	2.42E+05	1.59	107	1.12E+06	35.8	8.3	13.6
Grain15	5	100	7.62E-05	6.56E+04	1.21	13	1.71E+05	64.0	33.7	2.1
Grain16	21	100	7.62E-05	2.76E+05	1.36	108	1.42E+06	32.4	7.8	17.1
Grain17	22	100	7.62E-05	2.89E+05	1.29	25	3.28E+05	145.5	42.6	4.0
Grain18	14	140	1.07E-04	1.31E+05	1.30	159	1.49E+06	14.7	4.1	18.0
Grain19	5	100	7.62E-05	6.56E+04	1.63	19	2.49E+05	43.9	22.1	3.0
Grain20	7	180	1.37E-04	5.10E+04	1.85	42	3.06E+05	27.8	11.4	3.7
Grain21	8	221	1.68E-04	4.75E+04	1.32	51	3.03E+05	26.2	10.0	3.7
Grain22	30	230	1.75E-04	1.71E+05	1.47	146	8.33E+05	34.3	6.9	10.1
Grain23	11	191	1.46E-04	7.56E+04	1.51	84	5.77E+05	21.9	7.0	7.0
Grain24	7	185	1.41E-04	4.97E+04	1.75	12	8.51E+04	96.8	46.1	1.0
Grain25	7	100	7.62E-05	9.19E+04	1.19	38	4.99E+05	30.7	12.7	6.0
Grain26	9	120	9.14E-05	9.85E+04	0.80	92	1.01E+06	16.3	5.7	12.1
Grain27	20	200	1.52E-04	1.31E+05	1.43	56	3.68E+05	59.4	15.5	4.4
Grain28	29	67	5.10E-05	5.68E+05	1.23	265	5.19E+06	18.3	3.6	62.7
Grain29	9	100	7.62E-05	1.18E+05	1.86	37	4.86E+05	40.5	15.1	5.9
Grain30	12	170	1.30E-04	9.27E+04	1.59	69	5.33E+05	29.0	9.1	6.4
Grain31	19	184	1.40E-04	1.36E+05	1.89	98	6.99E+05	32.3	8.1	8.4
Grain32	3	100	7.62E-05	3.94E+04	1.43	14	1.84E+05	35.7	22.7	2.2
Grain33	22	100	7.62E-05	2.89E+05	1.75	264	3.47E+06	13.9	3.1	41.8
Grain34	9	78	5.94E-05	1.51E+05	1.90	35	5.89E+05	42.9	16.0	7.1
Grain35	10	64	4.88E-05	2.05E+05	1.73	9	1.85E+05	183.2	84.2	2.2
Grain36	12	94	7.16E-05	1.68E+05	1.58	62	8.66E+05	32.3	10.2	10.5
Grain37	15	106	8.08E-05	1.86E+05	1.91	119	1.47E+06	21.0	5.8	17.8
Grain38	9	80	6.09E-05	1.48E+05	1.13	21	3.45E+05	71.3	28.4	4.2
Grain39	8	160	1.22E-04	6.56E+04	1.29	103	8.45E+05	13.0	4.8	10.2
Grain40	8	174	1.33E-04	6.04E+04	1.56	93	7.02E+05	14.4	5.3	8.5
Grain41	18	177	1.35E-04	1.33E+05	1.29	291	2.16E+06	10.3	2.5	26.1
Grain42	42	160	1.22E-04	3.45E+05	1.91	333	2.73E+06	21.1	3.5	33.0
Grain43	17	70	5.33E-05	3.19E+05	1.88	24	4.50E+05	117.4	37.3	5.4
Grain44	24	100	7.62E-05	3.15E+05	1.74	167	2.19E+06	24.0	5.3	26.5
Grain45	10	80	6.09E-05	1.64E+05	1.81	48	7.88E+05	34.7	12.1	9.5
Grain46	4	180	1.37E-04	2.92E+04	1.84	44	3.21E+05	15.2	7.9	3.9
Grain47	7	66	5.03E-05	1.39E+05	1.50	13	2.59E+05	89.4	42.0	3.1
Grain48	8	100	7.62E-05	1.05E+05	2.05	69	9.06E+05	19.4	7.2	10.9

**Table 2.** Apatite fission-track age data in detrital sample POA1-3-Fundación (*continued*).

<b>Mineral</b>	<b>Apatite</b>									
<b>Glass</b>	<b>CN-5</b>									
<b>Analyst</b>	<b>Mauricio PARRA</b>									
<b>ND</b>	<b>10730</b>									
<b>RhoD</b>	<b>9.53E+05</b>									
<b>Zeta</b>	<b>351 ± 5.7</b>									
<b>Lambda D</b>	<b>1.55E-10</b>									
<b>Area</b>	<b>7.62E-07</b>									
<b>Grain</b>	<b>NS</b>	<b>NA</b>	<b>Area (cm<sup>2</sup>)</b>	<b>RhoS (cm<sup>-2</sup>)</b>	<b>Dpar</b>	<b>NI</b>	<b>RhoI (cm<sup>-2</sup>)</b>	<b>FT age</b>	<b>1σ</b>	<b>U (ppm)</b>
Grain49	9	40	3.05E-05	2.95E+05	1.39	50	1.64E+06	30.0	10.9	19.8
Grain50	42	135	1.03E-04	4.08E+05	1.84	535	5.20E+06	13.1	2.1	62.8
Grain51	17	68	5.18E-05	3.28E+05	1.31	92	1.78E+06	30.8	8.2	21.4
Grain52	14	97	7.39E-05	1.89E+05	1.72	80	1.08E+06	29.2	8.5	13.1
Grain53	9	46	3.50E-05	2.57E+05	1.84	39	1.11E+06	38.5	14.2	13.4
Grain54	89	96	7.31E-05	1.22E+06	1.16	554	7.58E+06	26.8	3.1	91.4
Grain55	4	79	6.02E-05	6.65E+04	1.51	39	6.48E+05	17.1	9.0	7.8
Grain56	21	151	1.15E-04	1.83E+05	2.04	251	2.18E+06	14.0	3.2	26.3
Grain57	8	99	7.54E-05	1.06E+05	1.78	21	2.78E+05	63.4	26.4	3.4
Grain58	53	99	7.54E-05	7.03E+05	1.82	382	5.07E+06	23.2	3.4	61.1
Grain59	6	126	9.60E-05	6.25E+04	2.08	25	2.60E+05	40.0	18.2	3.1
Grain60	15	100	7.62E-05	1.97E+05	1.45	183	2.40E+06	13.7	3.7	29.0
Grain61	36	100	7.62E-05	4.73E+05	2.05	330	4.33E+06	18.2	3.2	52.3
Grain62	46	90	6.86E-05	6.71E+05	1.74	201	2.93E+06	38.2	6.3	35.4
Grain63	13	90	6.86E-05	1.90E+05	1.67	76	1.11E+06	28.5	8.6	13.4
Grain64	4	74	5.64E-05	7.10E+04	1.40	18	3.19E+05	37.1	20.5	3.9
Grain65	16	92	7.01E-05	2.28E+05	2.07	97	1.38E+06	27.5	7.4	16.7
Grain66	13	49	3.73E-05	3.48E+05	2.32	127	3.40E+06	17.1	5.0	41.1
Grain67	37	94	7.16E-05	5.17E+05	1.50	367	5.13E+06	16.8	2.9	61.9
Grain68	4	126	9.60E-05	4.17E+04	1.77	35	3.65E+05	19.1	10.1	4.4
Grain69	17	70	5.33E-05	3.19E+05	1.83	70	1.31E+06	40.5	11.0	15.8
Grain70	24	157	1.20E-04	2.01E+05	2.26	205	1.71E+06	19.5	4.2	20.7
Grain71	14	145	1.10E-04	1.27E+05	1.81	59	5.34E+05	39.6	11.8	6.4
Grain72	7	122	9.29E-05	7.53E+04	1.81	30	3.23E+05	38.9	16.3	3.9
Grain73	7	73	5.56E-05	1.26E+05	1.38	83	1.49E+06	14.1	5.6	18.0
Grain74	10	130	9.90E-05	1.01E+05	1.75	60	6.06E+05	27.8	9.5	7.3
Grain75	7	70	5.33E-05	1.31E+05	1.14	15	2.81E+05	77.6	35.5	3.4
Grain76	10	150	1.14E-04	8.75E+04	1.78	11	9.63E+04	150.2	65.7	1.2
Grain77	2	130	9.90E-05	2.02E+04	1.62	20	2.02E+05	16.7	12.4	2.4
Grain78	3	32	2.44E-05	1.23E+05	1.04	25	1.03E+06	20.0	12.2	12.4
Grain79	11	104	7.92E-05	1.39E+05	1.55	32	4.04E+05	57.2	20.0	4.9
Grain80	5	95	7.24E-05	6.91E+04	1.30	22	3.04E+05	37.9	18.8	3.7
Grain81	6	94	7.16E-05	8.38E+04	1.00	79	1.10E+06	12.7	5.4	13.3
Grain82	19	92	7.01E-05	2.71E+05	1.72	89	1.27E+06	35.6	9.0	15.3
Grain83	2	100	7.62E-05	2.63E+04	1.90	30	3.94E+05	11.1	8.1	4.8

**Table 2.** Apatite fission-track age data in detrital sample POA1-3-Fundación (*continued*).

<b>Mineral</b>	<b>Apatite</b>									
<b>Glass</b>	<b>CN-5</b>									
<b>Analyst</b>	<b>Mauricio PARRA</b>									
<b>ND</b>	<b>10730</b>									
<b>RhoD</b>	<b>9.53E+05</b>									
<b>Zeta</b>	<b>351 ± 5.7</b>									
<b>Lambda D</b>	<b>1.55E-10</b>									
<b>Area</b>	<b>7.62E-07</b>									
<b>Grain</b>	<b>NS</b>	<b>NA</b>	<b>Area (cm<sup>2</sup>)</b>	<b>RhoS (cm<sup>-2</sup>)</b>	<b>Dpar</b>	<b>NI</b>	<b>RhoI (cm<sup>-2</sup>)</b>	<b>FT age</b>	<b>1σ</b>	<b>U (ppm)</b>
Grain84	4	100	7.62E-05	5.25E+04	1.91	30	3.94E+05	22.3	11.9	4.8
Grain85	11	65	4.95E-05	2.22E+05	1.25	154	3.11E+06	11.9	3.7	37.5
Grain86	7	86	6.55E-05	1.07E+05	1.03	30	4.58E+05	38.9	16.3	5.5
Grain87	14	100	7.62E-05	1.84E+05	1.27	61	8.01E+05	38.3	11.4	9.7
Grain88	10	100	7.62E-05	1.31E+05	1.39	40	5.25E+05	41.7	14.8	6.3
Grain89	16	100	7.62E-05	2.10E+05	1.69	138	1.81E+06	19.4	5.1	21.9
Grain90	5	65	4.95E-05	1.01E+05	1.27	32	6.46E+05	26.1	12.5	7.8
Grain91	5	100	7.62E-05	6.56E+04	1.42	43	5.64E+05	19.4	9.2	6.8
Grain92	12	100	7.62E-05	1.58E+05	2.86	86	1.13E+06	23.3	7.2	13.6
Grain93	21	100	7.62E-05	2.76E+05	1.88	91	1.19E+06	38.5	9.3	14.4
Grain94	2	100	7.62E-05	2.63E+04	1.42	18	2.36E+05	18.6	13.8	2.9
Grain95	17	100	7.62E-05	2.23E+05	1.57	34	4.46E+05	83.1	24.7	5.4
Grain96	7	61	4.65E-05	1.51E+05	2.82	90	1.94E+06	13.0	5.1	23.4
Grain97	5	84	6.40E-05	7.81E+04	1.60	13	2.03E+05	64.0	33.7	2.5
Grain98	13	180	1.37E-04	9.48E+04	2.64	70	5.10E+05	31.0	9.4	6.2
Grain99	10	126	9.60E-05	1.04E+05	1.74	66	6.88E+05	25.3	8.6	8.3
Total	1455	11449	8.72E-03	1.67E+05	1.62	9237	1.06E+06	26.3	0.9	12.8
Grains:	99									
Pooled age:	26.28 ± 0.89									
Chi2:	459.4									
Degrees:	98									
P(c2):	0.0%									

**Table 3.** Apatite fission-track age data in detrital sample POA1-2-Cañas.

<b>Mineral</b>	<b>Apatite</b>									
<b>Glass</b>	<b>CN-5</b>									
<b>Analyst</b>	<b>Mauricio PARRA</b>									
<b>ND</b>	<b>10730</b>									
<b>RhoD</b>	<b>9.47E+05</b>									
<b>Zeta</b>	<b>351 ± 5.7</b>									
<b>Lambda D</b>	<b>1.55E-10</b>									
<b>Area</b>	<b>7.62E-07</b>									
<b>Grain</b>	<b>NS</b>	<b>NA</b>	<b>Area (cm<sup>2</sup>)</b>	<b>RhoS (cm<sup>-2</sup>)</b>	<b>Dpar</b>	<b>NI</b>	<b>RhoI (cm<sup>-2</sup>)</b>	<b>FT age</b>	<b>1σ</b>	<b>U (ppm)</b>
Grain1	12	180	1.37E-04	8.75E+04	2.06	74	5.40E+05	26.9	8.4	6.6
Grain2	12	100	7.62E-05	1.58E+05	1.35	31	4.07E+05	64.0	21.8	4.9
Grain3	4	140	1.07E-04	3.75E+04	0.99	58	5.44E+05	11.5	5.9	6.6
Grain4	13	200	1.52E-04	8.53E+04	0.83	63	4.13E+05	34.2	10.4	5.0
Grain5	11	280	2.13E-04	5.16E+04	1.24	46	2.16E+05	39.6	13.3	2.6
Grain6	16	380	2.89E-04	5.53E+04	1.44	78	2.69E+05	34.0	9.4	3.3
Grain7	15	260	1.98E-04	7.57E+04	0.98	70	3.53E+05	35.5	10.1	4.3
Grain8	33	300	2.29E-04	1.44E+05	0.71	169	7.39E+05	32.4	6.2	9.0
Grain9	8	80	6.09E-05	1.31E+05	1.37	24	3.94E+05	55.2	22.5	4.8
Grain10	14	217	1.65E-04	8.47E+04	1.43	128	7.74E+05	18.2	5.1	9.4
Grain11	26	160	1.22E-04	2.13E+05	0.68	61	5.00E+05	70.5	16.6	6.1
Grain12	19	240	1.83E-04	1.04E+05	0.97	259	1.42E+06	12.2	2.9	17.2
Grain13	70	400	3.05E-04	2.30E+05	0.98	567	1.86E+06	20.5	2.6	22.6
Grain14	10	280	2.13E-04	4.69E+04	1.23	75	3.52E+05	22.1	7.5	4.3
Grain15	13	136	1.04E-04	1.25E+05	0.73	77	7.43E+05	28.0	8.4	9.0
Grain16	9	190	1.45E-04	6.22E+04	0.66	117	8.08E+05	12.8	4.4	9.8
Grain17	11	296	2.25E-04	4.88E+04	0.88	87	3.86E+05	21.0	6.7	4.7
Grain18	27	319	2.43E-04	1.11E+05	1.18	164	6.75E+05	27.3	5.7	8.2
Grain19	34	345	2.63E-04	1.29E+05	1.21	156	5.94E+05	36.1	6.9	7.2
Grain20	12	180	1.37E-04	8.75E+04	1.37	58	4.23E+05	34.3	10.9	5.1
Grain21	24	200	1.52E-04	1.58E+05	1.07	58	3.81E+05	68.4	16.7	4.6
Grain22	25	194	1.48E-04	1.69E+05	1.88	54	3.65E+05	76.5	18.6	4.4
Grain23	13	100	7.62E-05	1.71E+05	1.60	53	6.96E+05	40.6	12.6	8.4
Grain24	28	300	2.29E-04	1.23E+05	2.06	107	4.68E+05	43.3	9.2	5.7
Grain25	19	270	2.06E-04	9.24E+04	1.26	84	4.08E+05	37.5	9.5	5.0
Grain26	4	100	7.62E-05	5.25E+04	0.94	27	3.54E+05	24.6	13.2	4.3
Grain27	10	180	1.37E-04	7.29E+04	1.32	70	5.10E+05	23.7	8.0	6.2
Grain28	8	100	7.62E-05	1.05E+05	1.52	50	6.56E+05	26.5	10.1	8.0
Grain29	4	100	7.62E-05	5.25E+04	1.28	40	5.25E+05	16.6	8.7	6.4
Grain30	5	270	2.06E-04	2.43E+04	0.79	89	4.33E+05	9.3	4.3	5.3
Grain31	17	340	2.59E-04	6.56E+04	1.22	112	4.32E+05	25.2	6.6	5.3
Grain32	29	372	2.83E-04	1.02E+05	1.13	156	5.50E+05	30.8	6.3	6.7
Grain33	53	190	1.45E-04	3.66E+05	1.04	563	3.89E+06	15.6	2.3	47.2
Grain34	35	290	2.21E-04	1.58E+05	1.18	107	4.84E+05	54.1	10.6	5.9
Grain35	12	260	1.98E-04	6.06E+04	1.34	111	5.60E+05	17.9	5.5	6.8

**Table 3.** Apatite fission-track age data in detrital sample POA1-2-Cañas (*continued*).

<b>Mineral</b>	<b>Apatite</b>									
<b>Glass</b>	<b>CN-5</b>									
<b>Analyst</b>	<b>Mauricio PARRA</b>									
<b>ND</b>	<b>10730</b>									
<b>RhoD</b>	<b>9.47E+05</b>									
<b>Zeta</b>	<b>351 ± 5.7</b>									
<b>Lambda D</b>	<b>1.55E-10</b>									
<b>Area</b>	<b>7.62E-07</b>									
<b>Grain</b>	<b>NS</b>	<b>NA</b>	<b>Area (cm<sup>2</sup>)</b>	<b>RhoS (cm<sup>-2</sup>)</b>	<b>Dpar</b>	<b>NI</b>	<b>RhoI (cm<sup>-2</sup>)</b>	<b>FT age</b>	<b>1σ</b>	<b>U (ppm)</b>
Grain36	2	100	7.62E-05	2.63E+04	1.52	10	1.31E+05	33.2	25.7	1.6
Grain37	19	200	1.52E-04	1.25E+05	1.45	110	7.22E+05	28.6	7.1	8.8
Grain38	10	200	1.52E-04	6.56E+04	1.21	80	5.25E+05	20.7	7.0	6.4
Grain39	13	100	7.62E-05	1.71E+05	1.26	40	5.25E+05	53.8	17.2	6.4
Grain40	12	100	7.62E-05	1.58E+05	1.29	36	4.73E+05	55.2	18.4	5.7
Grain41	11	420	3.20E-04	3.44E+04	1.47	122	3.81E+05	15.0	4.7	4.6
Grain42	5	110	8.38E-05	5.97E+04	1.52	48	5.73E+05	17.3	8.1	7.0
Grain43	19	394	3.00E-04	6.33E+04	1.51	201	6.70E+05	15.7	3.8	8.1
Grain44	30	350	2.67E-04	1.13E+05	1.40	114	4.28E+05	43.6	9.0	5.2
Grain45	15	250	1.90E-04	7.88E+04	1.42	66	3.47E+05	37.7	10.8	4.2
Grain46	25	250	1.90E-04	1.31E+05	1.32	118	6.20E+05	35.1	7.8	7.5
Grain47	33	200	1.52E-04	2.17E+05	1.19	187	1.23E+06	29.3	5.6	14.9
Grain48	16	262	2.00E-04	8.02E+04	0.96	90	4.51E+05	29.5	8.0	5.5
Grain49	24	140	1.07E-04	2.25E+05	1.11	242	2.27E+06	16.5	3.5	27.6
Grain50	30	380	2.89E-04	1.04E+05	1.31	175	6.05E+05	28.4	5.6	7.3
Grain51	67	220	1.68E-04	4.00E+05	1.04	672	4.01E+06	16.5	2.1	48.7
Grain52	1	100	7.62E-05	1.31E+04	1.04	22	2.89E+05	7.5	7.7	3.5
Grain53	9	100	7.62E-05	1.18E+05	1.34	44	5.78E+05	33.9	12.4	7.0
Grain54	22	245	1.87E-04	1.18E+05	1.11	204	1.09E+06	17.9	4.0	13.3
Grain55	10	200	1.52E-04	6.56E+04	1.02	100	6.56E+05	16.6	5.5	8.0
Grain56	25	130	9.90E-05	2.52E+05	1.30	32	3.23E+05	128.6	34.4	3.9
Grain57	38	175	1.33E-04	2.85E+05	1.61	366	2.75E+06	17.2	3.0	33.3
Grain58	32	260	1.98E-04	1.62E+05	1.40	153	7.72E+05	34.7	6.8	9.4
Grain59	15	240	1.83E-04	8.20E+04	1.31	75	4.10E+05	33.2	9.4	5.0
Grain60	41	150	1.14E-04	3.59E+05	1.25	378	3.31E+06	18.0	3.0	40.2
Grain61	43	300	2.29E-04	1.88E+05	1.05	377	1.65E+06	18.9	3.1	20.0
Grain62	20	200	1.52E-04	1.31E+05	1.63	143	9.39E+05	23.2	5.6	11.4
Grain63	17	160	1.22E-04	1.39E+05	1.63	10	8.20E+04	276.5	110.3	1.0
Grain64	36	200	1.52E-04	2.36E+05	1.12	214	1.40E+06	27.9	5.1	17.1
Grain65	11	100	7.62E-05	1.44E+05	0.98	106	1.39E+06	17.2	5.5	16.9
Grain66	12	180	1.37E-04	8.75E+04	1.16	94	6.86E+05	21.2	6.5	8.3
Grain67	7	160	1.22E-04	5.74E+04	1.31	63	5.17E+05	18.4	7.4	6.3
Grain68	60	270	2.06E-04	2.92E+05	1.16	454	2.21E+06	21.9	3.0	26.8
Grain69	10	100	7.62E-05	1.31E+05	1.11	32	4.20E+05	51.7	18.8	5.1
Grain70	10	200	1.52E-04	6.56E+04	1.14	84	5.51E+05	19.8	6.6	6.7

**Table 3.** Apatite fission-track age data in detrital sample POA1-2-Cañas (*continued*).

<b>Mineral</b>	<b>Apatite</b>									
<b>Glass</b>	<b>CN-5</b>									
<b>Analyst</b>	<b>Mauricio PARRA</b>									
<b>ND</b>	<b>10730</b>									
<b>RhoD</b>	<b>9.47E+05</b>									
<b>Zeta</b>	<b>351 ± 5.7</b>									
<b>Lambda D</b>	<b>1.55E-10</b>									
<b>Area</b>	<b>7.62E-07</b>									
<b>Grain</b>	<b>NS</b>	<b>NA</b>	<b>Area (cm<sup>2</sup>)</b>	<b>RhoS (cm<sup>-2</sup>)</b>	<b>Dpar</b>	<b>NI</b>	<b>RhoI (cm<sup>-2</sup>)</b>	<b>FT age</b>	<b>1σ</b>	<b>U (ppm)</b>
Grain71	25	150	1.14E-04	2.19E+05	0.85	111	9.71E+05	37.3	8.3	11.8
Grain72	15	148	1.13E-04	1.33E+05	1.23	50	4.43E+05	49.7	14.7	5.4
Grain73	10	200	1.52E-04	6.56E+04	1.45	108	7.09E+05	15.4	5.1	8.6
Grain74	11	169	1.29E-04	8.54E+04	1.38	95	7.38E+05	19.2	6.1	9.0
Grain75	14	200	1.52E-04	9.19E+04	0.96	94	6.17E+05	24.7	7.1	7.5
Grain76	11	200	1.52E-04	7.22E+04	1.09	89	5.84E+05	20.5	6.6	7.1
Grain77	24	200	1.52E-04	1.58E+05	0.92	218	1.43E+06	18.3	3.9	17.4
Grain78	12	150	1.14E-04	1.05E+05	1.12	148	1.30E+06	13.5	4.0	15.7
Grain79	30	100	7.62E-05	3.94E+05	0.74	35	4.59E+05	140.9	35.2	5.6
Grain80	29	195	1.49E-04	1.95E+05	1.11	137	9.22E+05	35.1	7.2	11.2
Grain81	11	180	1.37E-04	8.02E+04	1.12	81	5.91E+05	22.5	7.3	7.2
Grain82	8	154	1.17E-04	6.82E+04	0.83	62	5.28E+05	21.4	8.1	6.4
Grain83	31	160	1.22E-04	2.54E+05	1.06	85	6.97E+05	60.3	12.7	8.5
Grain84	13	154	1.17E-04	1.11E+05	0.75	55	4.69E+05	39.2	12.1	5.7
Grain85	30	127	9.67E-05	3.10E+05	0.73	49	5.06E+05	101.0	23.5	6.2
Grain86	11	274	2.09E-04	5.27E+04	1.14	134	6.42E+05	13.6	4.3	7.8
Grain87	29	140	1.07E-04	2.72E+05	0.84	133	1.25E+06	36.1	7.4	15.1
Grain88	9	156	1.19E-04	7.57E+04	0.91	54	4.54E+05	27.6	10.0	5.5
Grain89	8	90	6.86E-05	1.17E+05	0.74	14	2.04E+05	94.3	41.8	2.5
Grain90	13	250	1.90E-04	6.83E+04	0.72	98	5.15E+05	22.0	6.5	6.2
Total	1749	18492	1.41E-02	1.24E+05	1.18	11155	7.92E+05	26.0	0.8	9.6
Grains:	90									
Pooled age:	26 ± 0.82									
Chi2:	186.0									
Degrees:	89									
P(c2):	0.0%									

**Table 4.** Apatite fission-track age data in detrital sample POA1-1-Guatapurí.

Mineral: Apatite										
Glass: CN-5										
Analyst: Ana María PATIÑO										
ND: 10734										
RhoD: 9.85E+05										
Zeta: 332.3 ± 7.1										
Lambda D: 1.55E-10										
Area: 7.62E-07										
Grain	NS	NA	Area (cm <sup>2</sup> )	RhoS (cm <sup>-2</sup> )	Dpar	NI	RhoI (cm <sup>-2</sup> )	FT age	1σ	U (ppm)
Grain1	3	70	5.33E-05	5.63E+04	1.14	17	3.19E+05	28.8	18.1	3.7
Grain2	18	60	4.57E-05	3.94E+05	1.07	144	3.15E+06	20.4	5.1	36.8
Grain3	4	60	4.57E-05	8.75E+04	1.07	26	5.69E+05	25.1	13.5	6.6
Grain4	7	100	7.62E-05	9.19E+04	1.16	16	2.10E+05	71.2	32.3	2.5
Grain5	8	79	6.02E-05	1.33E+05	1.02	40	6.65E+05	32.6	12.7	7.8
Grain6	2	70	5.33E-05	3.75E+04	0.70	6	1.13E+05	54.3	44.4	1.3
Grain7	9	21	1.60E-05	5.63E+05	1.07	71	4.44E+06	20.7	7.3	51.8
Grain8	11	57	4.34E-05	2.53E+05	1.00	64	1.47E+06	28.1	9.2	17.2
Grain9	14	36	2.74E-05	5.11E+05	1.39	50	1.82E+06	45.7	13.9	21.3
Grain10	12	60	4.57E-05	2.63E+05	1.19	131	2.87E+06	15.0	4.5	33.5
Grain11	7	75	5.71E-05	1.23E+05	1.11	9	1.58E+05	126.0	63.6	1.8
Grain12	2	97	7.39E-05	2.71E+04	0.86	21	2.84E+05	15.6	11.5	3.3
Grain13	5	72	5.48E-05	9.12E+04	0.58	40	7.29E+05	20.4	9.7	8.5
Grain14	5	74	5.64E-05	8.87E+04	1.05	29	5.14E+05	28.2	13.7	6.0
Grain15	5	70	5.33E-05	9.38E+04	0.73	27	5.06E+05	30.2	14.7	5.9
Grain16	6	24	1.83E-05	3.28E+05	0.74	28	1.53E+06	35.0	15.8	17.9
Grain17	19	78	5.94E-05	3.20E+05	0.93	202	3.40E+06	15.4	3.7	39.7
Grain18	3	70	5.33E-05	5.63E+04	0.82	5	9.38E+04	97.4	71.2	1.1
Grain19	6	50	3.81E-05	1.58E+05	1.34	15	3.94E+05	65.1	31.5	4.6
Grain20	10	60	4.57E-05	2.19E+05	1.03	30	6.56E+05	54.3	19.9	7.7
Grain21	10	49	3.73E-05	2.68E+05	1.03	123	3.30E+06	13.3	4.4	38.5
Grain22	7	49	3.73E-05	1.88E+05	0.76	13	3.48E+05	87.5	41.1	4.1
Grain23	13	190	1.45E-04	8.98E+04	0.65	72	4.97E+05	29.5	8.9	5.8
Grain24	18	100	7.62E-05	2.36E+05	0.74	52	6.83E+05	56.4	15.5	8.0
Grain25	8	48	3.66E-05	2.19E+05	0.76	11	3.01E+05	117.9	54.9	3.5
Grain26	7	24	1.83E-05	3.83E+05	1.14	10	5.47E+05	113.5	56.0	6.4
Grain27	11	80	6.09E-05	1.80E+05	0.90	42	6.89E+05	42.7	14.5	8.0
Grain28	9	100	7.62E-05	1.18E+05	0.98	20	2.63E+05	73.2	29.5	3.1
Grain29	3	60	4.57E-05	6.56E+04	0.80	20	4.38E+05	24.5	15.2	5.1
Grain30	7	88	6.70E-05	1.04E+05	0.79	66	9.85E+05	17.3	6.9	11.5
Grain31	11	56	4.27E-05	2.58E+05	0.90	21	4.92E+05	85.1	31.8	5.7
Grain32	6	88	6.70E-05	8.95E+04	0.00	136	2.03E+06	7.2	3.0	23.7
Grain33	7	60	4.57E-05	1.53E+05	0.86	19	4.16E+05	60.0	26.6	4.9
Grain34	6	30	2.29E-05	2.63E+05	0.78	37	1.62E+06	26.5	11.7	18.9
Grain35	1	75	5.71E-05	1.75E+04	1.01	4	7.00E+04	40.8	45.6	0.8
Grain36	2	70	5.33E-05	3.75E+04	0.78	34	6.38E+05	9.6	7.0	7.4
Grain37	2	15	1.14E-05	1.75E+05	1.23	12	1.05E+06	27.2	20.8	12.3

**Table 4.** Apatite fission-track age data in detrital sample POA1-1-Guatapurí (*continued*).

<b>Mineral:</b> Apatite										
<b>Glass:</b> CN-5										
<b>Analyst:</b> Ana María PATIÑO										
<b>ND:</b> 10734										
<b>RhoD:</b> 9.85E+05										
<b>Zeta:</b> 332.3 ± 7.1										
<b>Lambda D:</b> 1.55E-10										
<b>Area:</b> 7.62E-07										
<b>Grain</b>	<b>NS</b>	<b>NA</b>	<b>Area (cm<sup>2</sup>)</b>	<b>RhoS (cm<sup>-2</sup>)</b>	<b>Dpar</b>	<b>NI</b>	<b>RhoI (cm<sup>-2</sup>)</b>	<b>FT age</b>	<b>1σ</b>	<b>U (ppm)</b>
Grain38	18	79	6.02E-05	2.99E+05	0.96	20	3.32E+05	145.6	47.5	3.9
Grain39	11	80	6.09E-05	1.80E+05	1.45	154	2.53E+06	11.7	3.7	29.5
Grain40	6	49	3.73E-05	1.61E+05	0.86	20	5.36E+05	48.9	22.8	6.3
Grain41	6	78	5.94E-05	1.01E+05	0.73	35	5.89E+05	28.0	12.4	6.9
Grain42	29	70	5.33E-05	5.44E+05	1.07	173	3.24E+06	27.4	5.5	37.9
Grain43	11	48	3.66E-05	3.01E+05	1.09	109	2.98E+06	16.5	5.2	34.8
Grain44	16	32	2.44E-05	6.56E+05	0.97	193	7.92E+06	13.6	3.5	92.5
Grain45	9	60	4.57E-05	1.97E+05	1.06	116	2.54E+06	12.7	4.4	29.6
Grain46	23	100	7.62E-05	3.02E+05	0.77	172	2.26E+06	21.8	4.9	26.4
Grain47	2	100	7.62E-05	2.63E+04	0.84	20	2.63E+05	16.3	12.1	3.1
Grain48	15	80	6.09E-05	2.46E+05	0.84	157	2.58E+06	15.6	4.2	30.1
Grain49	12	60	4.57E-05	2.63E+05	0.98	53	1.16E+06	36.9	11.9	13.5
Grain50	5	35	2.67E-05	1.88E+05	1.06	11	4.13E+05	74.0	39.9	4.8
Grain51	15	100	7.62E-05	1.97E+05	0.89	48	6.30E+05	50.9	15.1	7.4
Grain52	1	50	3.81E-05	2.63E+04	1.06	3	7.88E+04	54.3	62.7	0.9
Grain53	8	60	4.57E-05	1.75E+05	1.03	79	1.73E+06	16.5	6.2	20.2
Grain54	3	100	7.62E-05	3.94E+04	1.10	27	3.54E+05	18.2	11.1	4.1
Grain55	8	90	6.86E-05	1.17E+05	0.94	53	7.73E+05	24.7	9.4	9.0
Grain56	4	42	3.20E-05	1.25E+05	1.03	14	4.38E+05	46.6	26.4	5.1
Grain57	24	85	6.48E-05	3.71E+05	1.13	139	2.15E+06	28.2	6.3	25.1
Grain58	8	100	7.62E-05	1.05E+05	0.85	70	9.19E+05	18.7	7.0	10.7
Grain59	7	90	6.86E-05	1.02E+05	1.08	11	1.60E+05	103.3	50.0	1.9
Grain60	13	76	5.79E-05	2.25E+05	0.78	72	1.24E+06	29.5	8.9	14.5
Grain61	8	100	7.62E-05	1.05E+05	0.82	48	6.30E+05	27.2	10.4	7.4
Grain62	47	64	4.88E-05	9.64E+05	0.90	281	5.76E+06	27.3	4.4	67.3
Grain63	13	46	3.50E-05	3.71E+05	1.05	115	3.28E+06	18.5	5.4	38.3
Grain64	4	70	5.33E-05	7.50E+04	1.08	46	8.63E+05	14.2	7.4	10.1
Grain65	1	100	7.62E-05	1.31E+04	1.07	9	1.18E+05	18.2	19.1	1.4
Grain66	19	100	7.62E-05	2.49E+05	0.64	67	8.80E+05	46.2	12.1	10.3
Grain67	20	72	5.48E-05	3.65E+05	0.84	138	2.52E+06	23.7	5.7	29.4
Grain68	8	100	7.62E-05	1.05E+05	0.88	67	8.80E+05	19.5	7.3	10.3
Grain69	2	60	4.57E-05	4.38E+04	0.68	8	1.75E+05	40.8	32.3	2.0
Grain70	7	70	5.33E-05	1.31E+05	0.91	12	2.25E+05	94.8	45.1	2.6
Grain71	2	36	2.74E-05	7.29E+04	1.00	14	5.11E+05	23.3	17.6	6.0
Grain72	2	84	6.40E-05	3.13E+04	0.66	20	3.13E+05	16.3	12.1	3.6
Grain73	34	60	4.57E-05	7.44E+05	0.94	334	7.31E+06	16.6	3.0	85.3
Grain74	7	30	2.29E-05	3.06E+05	0.91	20	8.75E+05	57.0	25.1	10.2

**Table 4.** Apatite fission-track age data in detrital sample POA1-1-Guatapurí (*continued*).

<b>Mineral:</b> Apatite <b>Glass:</b> CN-5 <b>Analyst:</b> Ana María PATIÑO <b>ND:</b> 10734 <b>RhoD:</b> 9.85E+05 <b>Zeta:</b> 332.3 ± 7.1 <b>Lambda D:</b> 1.55E-10 <b>Area:</b> 7.62E-07										
Grain	NS	NA	Area (cm <sup>2</sup> )	RhoS (cm <sup>-2</sup> )	Dpar	NI	RhoI (cm <sup>-2</sup> )	FT age	1σ	U (ppm)
Grain75	16	25	1.90E-05	8.40E+05	1.22	104	5.46E+06	25.1	6.8	63.8
Grain76	6	14	1.07E-05	5.63E+05	0.82	10	9.38E+05	97.4	50.4	10.9
Grain77	25	100	7.62E-05	3.28E+05	0.73	127	1.67E+06	32.1	7.1	19.5
Grain78	1	36	2.74E-05	3.65E+04	0.85	16	5.83E+05	10.2	10.5	6.8
Grain79	13	100	7.62E-05	1.71E+05	0.65	81	1.06E+06	26.2	7.9	12.4
Grain80	13	100	7.62E-05	1.71E+05	0.96	112	1.47E+06	19.0	5.6	17.2
Grain81	3	69	5.26E-05	5.71E+04	1.41	7	1.33E+05	69.7	48.2	1.6
Grain82	4	35	2.67E-05	1.50E+05	1.02	53	1.99E+06	12.3	6.4	23.2
Grain83	2	40	3.05E-05	6.56E+04	1.03	16	5.25E+05	20.4	15.3	6.1
Grain84	2	60	4.57E-05	4.38E+04	0.73	6	1.31E+05	54.3	44.4	1.5
Grain85	2	42	3.20E-05	6.25E+04	0.95	41	1.28E+06	8.1	5.8	15.0
Grain86	2	30	2.29E-05	8.75E+04	0.88	10	4.38E+05	33.0	25.6	5.1
Grain87	22	75	5.71E-05	3.85E+05	0.93	192	3.36E+06	18.9	4.3	39.2
Grain88	6	60	4.57E-05	1.31E+05	1.07	58	1.27E+06	17.1	7.3	14.8
Grain89	2	48	3.66E-05	5.47E+04	1.37	9	2.46E+05	36.6	28.6	2.9
Grain90	3	50	3.81E-05	7.88E+04	0.94	4	1.05E+05	122.8	93.8	1.2
Grain91	4	40	3.05E-05	1.31E+05	1.22	22	7.22E+05	30.0	16.3	8.4
Grain92	13	60	4.57E-05	2.84E+05	0.97	77	1.68E+06	27.8	8.4	19.7
Grain93	3	56	4.27E-05	7.03E+04	0.00	47	1.10E+06	10.5	6.3	12.9
Grain94	8	70	5.33E-05	1.50E+05	1.01	127	2.38E+06	10.4	3.8	27.8
Grain95	3	60	4.57E-05	6.56E+04	1.22	12	2.63E+05	41.2	26.6	3.1
Grain96	4	50	3.81E-05	1.05E+05	0.78	18	4.73E+05	36.6	20.3	5.5
Grain97	10	40	3.05E-05	3.28E+05	1.07	48	1.58E+06	34.3	12.0	18.4
Grain98	1	24	1.83E-05	5.47E+04	1.29	11	6.02E+05	15.0	15.7	7.0
Grain99	5	70	5.33E-05	9.38E+04	1.06	60	1.13E+06	13.8	6.4	13.1
Grain100	6	100	7.62E-05	7.88E+04	1.03	64	8.40E+05	15.5	6.6	9.8
Grain101	6	48	3.66E-05	1.64E+05	0.76	42	1.15E+06	23.6	10.3	13.4
Total	1455	11449	8.72E-03	1.67E+05	1.62	9237	1.18E+06	24.8	1.0	13.8
Grains:	99									
Pooled age:	26.28 ± 0.89									
Chi2:	459.377996									
Degrees:	98									
P(c2):	0.0%									

**Table 5.** Apatite fission-track length data in detrital samples.

Sample: POA1-3-Fundación			Sample: POA1-1-Guatapurí		
Length ( $\mu\text{m}$ )	Angle ( $^{\circ}$ )	Dpar (mm)	Length ( $\mu\text{m}$ )	Angle ( $^{\circ}$ )	Dpar (mm)
11.257	23.283	1.477855	16.543	79.647	1.428498
14.524	66.832	1.370588	15.082	61.025	1.428498
15.31	12.761	1.303806	15.563	65.597	1.431227
14.231	62.486	1.303806	18.791	50.86	1.466409
13.665	63.011	1.230796	19.84	13.468	1.390586
10.13	38.363	1.230796	14.176	63.599	1.651416
15.552	8.009	1.572664	11.554	41.918	1.651416
10.336	62.944	1.226644	10.671	53.965	1.280492
11.87	27.272	1.428028	12.824	46.233	1.689934
13.093	43.014	1.595502	11.817	51.89	1.17525
12.508	70.572	1.53218	13.808	57.396	1.616538
15.894	20.264	1.630104	14.3	14.844	1.490066
12.991	11.987	1.110035	16.837	81.967	1.261385
15.966	54.318	1.565398	14.898	37.492	1.261385
14.965	50.881	1.613841	14.264	49.238	1.137036
13.392	21.523	1.613841	15.808	60.544	1.649596
13.908	71.437	1.613841	15.353	36.307	1.466712
17.537	42.257	1.364014	15.791	24.808	1.466712
15.314	19.186	1.633564	16.419	42.804	1.360561
11.814	61.022	1.642907	13.497	26.803	1.360561
15.395	26.972	1.961246	15.918	56.825	1.360561
Average:	13.79295		14.94067		
Stdev:	1.973798		2.224236		

**Table 6.** Apatite (U-Th)/He data in detrital samples.

Sample	Ft-corrected Age (Ma)	$2\sigma$ (Ma)	U (ppm)	Th (ppm)	$^{147}\text{Sm}$ (ppm)	[U]e (ppm)	Th/ $^{238}\text{U}$	He (nmo-l/g)	mass ( $\mu\text{g}$ )	Ft	ESR (mm)
Fundación 1	9.9	1.3	64.4	89.5	44.6	85.5	1.4	2.7	0.24	0.59	36.2
Fundación 2	22.8	3.8	15.5	27.6	19.7	22.0	1.8	1.7	0.31	0.62	39.5
Fundación 3	13.4	1.3	36.9	32.9	45.3	44.7	0.9	2.1	0.42	0.65	42.8
Fundación 4	6.8	2.0	13.0	39.7	106.3	22.3	3.2	0.6	0.50	0.66	44.0
Fundación 5	21.4	0.6	101.7	175.8	9.3	143.0	1.8	10.0	0.29	0.60	37.8
Fundación 6	18.5	5.3	5.5	5.6	249.2	6.8	1.1	0.6	0.52	0.67	45.2
Fundación 7	17.1	2.7	16.2	60.0	149.3	30.3	3.8	1.7	0.27	0.60	37.5
Fundación 9	22.3	1.1	27.7	50.5	70.3	39.5	1.9	3.4	0.74	0.71	51.7
Fundación 10	21.2	5.2	15.6	39.7	320.3	24.9	2.6	1.7	0.22	0.53	32.0
Fundación 11	22.1	9.9	23.8	25.6	83.3	29.8	1.1	1.8	0.12	0.48	29.0
Fundación 14	26.8	2.0	11.0	16.0	147.5	14.8	1.5	1.6	0.74	0.71	52.2
Fundación 15	6.6	4.5	12.2	10.2	56.0	14.6	0.9	0.3	0.36	0.64	41.5
Fundación 17	15.6	2.9	37.2	41.1	139.3	46.9	1.1	2.4	0.26	0.59	36.7
Fundación 18	17.0	0.9	138.5	43.1	122.6	148.7	0.3	8.1	0.26	0.59	37.0

**Table 6.** Apatite (U–Th)/He data in detrital samples (*continued*).

Sample	Ft-corrected Age (Ma)	2 $\sigma$ (Ma)	U (ppm)	Th (ppm)	<sup>147</sup> Sm (ppm)	[U]e (ppm)	Th/ <sup>238</sup> U	He (nmo-l/g)	mass (ug)	Ft	ESR (mm)
Fundación 19	17.4	1.4	32.7	27.6	60.5	39.2	0.9	2.4	0.48	0.65	42.5
Fundación 22	6.7	0.4	25.9	69.2	27.1	42.2	2.8	1.2	1.72	0.78	68.4
Fundación 23	10.5	1.1	97.5	127.1	58.4	127.4	1.3	4.1	0.21	0.57	34.9
Fundación 24	12.5	0.5	128.1	151.8	78.4	163.8	1.2	7.5	0.51	0.67	45.9
Fundación 26	10.8	1.9	32.9	78.9	80.5	51.5	2.5	1.9	0.29	0.61	38.3
Fundación 27	18.5	1.7	86.8	84.4	74.2	106.6	1.0	5.8	0.18	0.54	32.7
Fundación 28	7.5	1.3	48.9	79.2	590.3	67.6	1.7	1.8	0.32	0.60	37.6
Fundación 29	2.7	0.5	312.9	1141.5	193.1	581.2	3.8	4.1	0.12	0.49	29.2
Fundación 30	18.2	0.5	163.3	194.7	84.0	209.0	1.2	13.5	0.41	0.65	43.1
Cañas 1	14.5	0.7	39.6	53.4	87.3	52.2	1.4	2.9	0.9	0.7	51.7
Cañas 2	10.8	0.5	58.2	64.9	96.8	73.5	1.2	3.0	0.7	0.7	50.1
Cañas 3	7.7	0.3	53.0	163.0	73.7	91.3	3.2	2.6	0.6	0.7	47.7
Cañas 4	19.9	0.7	18.4	125.7	218.3	48.0	7.0	4.2	1.9	0.8	70.1
Cañas 6	19.6	0.5	66.3	531.7	96.8	191.3	8.3	15.8	1.5	0.8	66.8
Cañas 7	164.0	17.1	0.3	2.8	4.2	1.0	8.5	0.7	1.0	0.7	55.5
Cañas 9	33.1	2.4	35.2	81.4	27.7	54.4	2.4	6.1	0.3	0.6	39.9
Cañas 10	18.0	0.6	30.0	94.5	239.3	52.2	3.3	4.0	1.4	0.8	63.3
Cañas 11	6.1	0.3	83.5	42.0	54.1	93.4	0.5	2.2	0.8	0.7	53.2
Cañas 12	23.4	0.9	37.9	135.7	225.5	69.8	3.7	7.3	2.6	0.8	77.8
Cañas 13	20.5	1.1	34.5	15.6	149.9	38.2	0.5	3.4	1.6	0.8	65.0
Cañas 14	19.9	0.6	18.6	113.7	164.1	45.4	6.3	3.8	1.3	0.8	63.6
Cañas 15	30.4	1.3	30.7	1.9	99.5	31.2	0.1	3.9	1.0	0.7	56.7
Cañas 16	9.6	0.7	50.7	71.6	121.4	67.5	1.5	2.5	0.7	0.7	48.7
Cañas 17	16.9	0.8	24.8	118.4	206.4	52.6	4.9	3.9	2.4	0.8	69.7
Cañas 18	11.9	1.6	28.9	59.0	30.8	42.8	2.1	1.6	0.3	0.6	35.3
Cañas 19	11.1	0.8	96.7	118.4	140.9	124.5	1.3	4.4	0.2	0.6	36.1
Cañas 20	20.6	0.6	19.3	145.2	199.8	53.5	7.8	4.8	1.8	0.8	69.1
Cañas 21	17.8	0.5	61.9	93.1	122.9	83.7	1.6	6.1	1.2	0.7	58.7
Cañas 22	22.0	0.7	50.2	179.4	319.4	92.4	3.7	9.1	3.5	0.8	76.7
Cañas 23	19.8	1.1	18.0	122.8	183.6	46.9	7.0	4.3	3.5	0.8	88.6
Cañas 24	15.4	1.3	28.1	3.7	244.8	29.0	0.1	1.8	0.7	0.7	52.7
Cañas 25	9.6	0.5	34.2	67.8	105.2	50.2	2.0	1.9	0.8	0.7	55.4
Cañas 26	14.0	1.5	21.6	86.8	189.5	42.0	4.2	2.1	0.4	0.6	42.7
Cañas 27	18.8	0.8	12.4	72.2	184.6	29.3	6.0	2.3	0.8	0.7	54.2
Cañas 28	14.3	1.2	29.8	68.1	142.3	45.8	2.4	2.3	0.5	0.6	40.8
Cañas 29	19.3	0.5	332.6	478.6	44.9	445.0	1.5	35.8	1.5	0.8	65.9
Cañas 30	20.6	1.7	33.5	58.2	84.3	47.1	1.8	3.0	0.3	0.6	35.0
Guatapurí 1	12.7	2.5	8.4	35.6	121.8	16.8	4.4	0.8	0.4	0.6	42.1
Guatapurí 2	7.4	1.1	7.3	59.1	254.5	21.1	8.4	0.7	0.8	0.7	54.0
Guatapurí 3	16.6	1.6	13.7	54.0	117.2	26.4	4.1	1.6	0.5	0.6	42.6
Guatapurí 4	21.6	1.0	15.9	27.9	93.8	22.4	1.8	2.1	1.7	0.8	69.3

**Table 6.** Apatite (U–Th)/He data in detrital samples (*continued*).

Sample	Ft-corrected Age (Ma)	2 $\sigma$ (Ma)	U (ppm)	Th (ppm)	<sup>147</sup> Sm (ppm)	[U]e (ppm)	Th/ <sup>238</sup> U	He (nmo-l/g)	mass (ug)	Ft	ESR (mm)
Guatapurí 5	18.2	1.7	22.5	49.1	35.0	34.0	2.3	2.3	0.5	0.7	45.8
Guatapurí 6	20.3	0.9	37.0	75.4	21.6	54.7	2.1	4.4	1.0	0.7	56.2
Guatapurí 7	19.6	2.2	18.0	20.6	59.2	22.9	1.2	1.6	0.4	0.7	43.6
Guatapurí 8	33.6	4.5	8.1	43.7	51.5	18.4	5.6	2.1	0.3	0.6	37.4
Guatapurí 9	18.6	2.4	42.7	6.6	174.7	44.2	0.2	2.6	0.2	0.6	35.4
Guatapurí 10	11.5	8.8	18.3	-0.2	56.9	18.2	0.0	0.6	0.2	0.5	30.6
Guatapurí 11	50.8	2.7	17.1	8.7	85.9	19.1	0.5	3.7	0.5	0.7	46.6
Guatapurí 12	25.2	0.5	654.9	50.8	415.6	666.9	0.1	69.0	1.2	0.8	61.9
Guatapurí 13	19.4	1.7	22.9	24.4	51.4	28.6	1.1	2.0	0.5	0.7	45.2
Guatapurí 14	22.3	18.0	7.9	3.7	88.4	8.8	0.5	0.6	0.2	0.5	31.2
Guatapurí 15	23.6	1.5	73.4	1.0	116.8	73.7	0.0	5.7	0.3	0.6	37.3
Guatapurí 16	19.0	1.0	42.1	106.8	230.0	67.2	2.6	4.8	0.6	0.7	46.6
Guatapurí 17	23.9	1.2	71.7	105.4	20.8	96.4	1.5	7.1	0.2	0.6	35.0
Guatapurí 18	52.8	11.8	5.3	6.1	81.3	6.7	1.2	1.3	0.3	0.6	38.0
Guatapurí 19	25.3	9.0	4.8	2.0	97.2	5.3	0.4	0.5	0.4	0.6	40.6
Guatapurí 20	8.8	3.5	28.4	42.1	85.0	38.3	1.5	1.0	0.2	0.5	33.2
Guatapurí 21	29.1	3.6	6.7	10.9	101.9	9.3	1.7	1.1	0.7	0.7	52.1
Guatapurí 22	41.4	13.4	4.3	19.6	146.5	8.9	4.7	1.1	0.2	0.5	30.2
Guatapurí 23	21.0	2.3	21.8	40.0	32.6	31.2	1.9	2.2	0.3	0.6	38.1
Guatapurí 24	85.0	7.3	15.7	8.6	86.4	17.7	0.6	4.4	0.2	0.5	31.3
Guatapurí 25	17.9	0.7	213.3	27.2	200.7	219.7	0.1	13.9	0.4	0.7	43.0
Guatapurí 26	24.4	0.5	63.9	104.7	157.5	88.5	1.7	8.5	0.8	0.7	52.8
Guatapurí 27	24.8	2.2	12.9	35.3	226.0	21.2	2.8	2.1	0.5	0.7	45.3
Guatapurí 28	21.0	2.1	9.3	38.4	87.4	18.3	4.3	1.5	0.6	0.7	46.1
Guatapurí 29	30.5	8.8	4.9	24.2	129.7	10.6	5.1	1.1	0.2	0.6	33.6
Guatapurí 30	15.1	4.9	6.7	11.7	91.3	9.4	1.8	0.5	0.4	0.7	43.0

Quaternary

Neogene

Paleogene