





**Table 2.** U–Pb age data from the Cretaceous Colombian back–arc basin.

Analysis name	Preferred age (Ma)	Sample GPS–89																	
		2 –sigma	2 +sigma	Age type	[U] (ppm)	U/Th	207Pb/235U Ratio	2 sigma	206Pb/238U Ratio	2 sigma	207Pb/235Uc age (Ma)	2 –sigma	2 +sigma	206Pb/238U age (Ma)	2 –sigma	2 +sigma	207Pb/206Pb age (Ma)	2 –sigma	2 +sigma
P1462_102_Zrn_A_1_POS_37	360.94	12.63	12.62	206Pb/238U	2152	2.55	0.47687	0.07108	0.06114	0.00148	385.83	24.01	23.73	360.94	12.63	12.62	537.92	161.85	154.03
P1462_102_Zrn_A_1_POS_72	432.05	19.74	19.71	206Pb/238U	531	0.77	0.48068	0.06835	0.06962	0.00326	451.96	21.67	21.44	432.05	19.74	19.71	554.54	128.91	123.89
P1462_102_Zrn_A_1_POS_0	444.02	11.36	11.35	206Pb/238U	1425	1.35	0.48785	0.06138	0.06945	0.00172	454.37	19.30	19.12	444.02	11.36	11.35	507.09	113.07	109.20
P1462_102_Zrn_A_1_POS_104	486.00	13.96	13.95	206Pb/238U	410	0.97	0.53355	0.08708	0.07851	0.00207	489.22	18.87	18.70	486.00	13.96	13.95	504.36	100.84	97.76
P1462_102_Zrn_A_1_POS_34	555.51	30.23	29.79	207Pb/235Uc	1081	1.80	0.75380	0.11137	0.08185	0.00346	555.51	30.23	29.79	545.34	30.75	30.68	597.42	119.88	115.52
P1462_102_Zrn_A_1_POS_43	579.87	19.67	19.64	206Pb/238U	1084	4.65	0.80816	0.09764	0.08485	0.00213	593.22	22.09	21.85	579.87	19.67	19.64	644.62	87.73	85.37
P1462_102_Zrn_A_1_POS_76	602.75	33.68	33.59	206Pb/238U	221	1.02	0.99872	0.44217	0.06810	0.00149	663.76	66.12	64.03	602.75	33.68	33.59	876.89	287.54	263.29
P1462_102_Zrn_A_1_POS_12	607.29	16.84	16.82	206Pb/238U	179	0.65	0.68704	0.14991	0.09908	0.00272	622.69	38.23	37.52	607.29	16.84	16.82	679.06	179.40	169.76
P1462_102_Zrn_A_1_POS_93	611.05	27.32	27.26	206Pb/238U	50	0.49	0.98107	0.34207	0.10143	0.00421	591.26	49.20	48.04	611.05	27.32	27.26	516.05	248.52	230.57
P1462_102_Zrn_A_1_POS_101	617.13	22.16	22.12	206Pb/238U	101	3.06	0.76607	0.14323	0.09945	0.00339	617.26	42.69	41.81	617.13	22.16	22.12	617.73	207.15	194.45
P1462_102_Zrn_A_1_POS_57	618.17	24.39	24.34	206Pb/238U	65	0.46	0.76884	0.22101	0.10176	0.00420	623.85	53.48	52.11	618.17	24.39	24.34	644.51	246.33	228.56
P1462_102_Zrn_A_1_POS_75	647.67	19.77	19.74	206Pb/238U	157	0.91	0.83908	0.18377	0.10602	0.00332	662.42	35.51	34.90	647.67	19.77	19.74	712.92	158.68	151.08
P1462_102_Zrn_A_1_POS_67	704.00	17.34	17.31	206Pb/238U	288	7.50	1.05643	0.17574	0.11621	0.00290	695.27	38.03	37.33	704.00	17.34	17.31	667.15	162.52	154.58
P1462_102_Zrn_A_1_POS_88	731.47	24.28	24.24	206Pb/238U	163	1.45	1.06144	0.20584	0.10916	0.00385	739.13	46.04	45.01	731.47	24.28	24.24	762.42	178.84	169.22
P1462_102_Zrn_A_1_POS_33	810.42	25.05	25.00	206Pb/238U	247	3.31	1.35785	0.29759	0.13409	0.00377	846.94	30.59	30.13	810.42	25.05	25.00	943.89	114.62	110.55
P1462_102_Zrn_A_1_POS_94	871.05	24.95	24.64	207Pb/235Uc	287	2.64	1.55716	0.24520	0.14285	0.00453	871.05	24.95	24.64	848.64	25.34	25.29	928.49	75.14	73.37
P1462_102_Zrn_A_1_POS_28	875.82	19.93	19.90	206Pb/238U	215	1.75	1.19384	0.22739	0.14448	0.00348	878.90	33.21	32.67	875.82	19.93	19.90	886.65	115.03	110.94
P1462_102_Zrn_A_1_POS_96	904.95	35.56	35.46	206Pb/238U	128	0.64	1.60350	0.41343	0.15056	0.00587	924.82	65.79	63.73	904.95	35.56	35.46	972.52	219.11	204.67
P1462_102_Zrn_A_1_POS_11	923.08	26.45	26.40	206Pb/238U	281	1.14	1.35682	0.25811	0.14970	0.00387	931.57	28.81	28.40	923.08	26.45	26.40	951.71	92.10	89.45
P1462_102_Zrn_A_1_POS_7	926.10	56.69	56.44	206Pb/238U	37	0.83	2.09231	1.07991	0.15305	0.00668	906.42	89.83	86.03	926.10	56.69	56.44	858.76	299.18	273.05
P1462_102_Zrn_A_1_POS_22	933.98	33.67	33.59	206Pb/238U	131	3.35	1.34573	0.29432	0.15480	0.00519	916.14	43.05	42.16	933.98	33.67	33.59	873.41	143.14	136.87
P1462_102_Zrn_A_1_POS_52	934.77	26.61	26.56	206Pb/238U	194	1.02	1.41871	0.23773	0.15098	0.00434	926.60	36.67	36.02	934.77	26.61	26.56	907.20	123.98	119.24
P1462_102_Zrn_A_1_POS_44	936.56	47.15	46.98	206Pb/238U	75	2.38	1.35889	0.32843	0.15312	0.00709	936.23	58.03	56.41	936.56	47.15	46.98	935.44	184.83	174.47
P1462_102_Zrn_A_1_POS_20	949.63	21.89	21.66	207Pb/235Uc	736	3.62	1.57983	0.21656	0.15523	0.00386	949.63	21.89	21.66	934.02	21.63	21.59	985.98	69.54	68.02
P1462_102_Zrn_A_1_POS_109	961.11	28.00	27.94	206Pb/238U	211	3.33	1.79183	0.37393	0.16152	0.00506	981.28	30.39	29.94	961.11	28.00	27.94	1026.69	95.52	92.66
P1462_102_Zrn_A_1_POS_58	964.20	22.81	22.76	206Pb/238U	206	3.15	1.89450	0.33788	0.16332	0.00414	969.26	37.43	36.75	964.20	22.81	22.76	980.73	119.71	115.27
P1462_102_Zrn_A_1_POS_32	967.43	22.88	22.84	206Pb/238U	199	2.57	1.50250	0.23646	0.16273	0.00413	957.28	44.60	43.64	967.43	22.88	22.84	934.02	145.24	138.77
P1462_102_Zrn_A_1_POS_61	978.63	28.00	27.94	206Pb/238U	142	2.66	1.67521	0.25625	0.16558	0.00489	977.48	31.60	31.12	978.63	28.00	27.94	974.92	97.75	94.77
P1462_102_Zrn_A_1_POS_27	982.24	31.73	31.65	206Pb/238U	179	3.14	2.60106	0.67866	0.16622	0.00577	1008.61	34.23	33.66	982.24	31.73	31.65	1066.33	97.97	94.96
P1462_102_Zrn_A_1_POS_91	983.32	30.83	30.76	206Pb/238U	260	1.30	1.66443	0.26972	0.16518	0.00520	988.52	36.43	35.79	983.32	30.83	30.76	1000.08	119.73	115.28
P1462_102_Zrn_A_1_POS_100	986.19	44.01	43.86	206Pb/238U	46	1.78	2.44568	0.90614	0.16570	0.00632	1013.84	49.23	48.06	986.19	44.01	43.86	1074.06	150.54	143.55
P1462_102_Zrn_A_1_POS_59	996.55	29.27	29.21	206Pb/238U	225	4.08	1.55040	0.27923	0.16547	0.00456	1009.47	31.59	31.10	996.55	29.27	29.21	1037.60	87.83	85.41
P1462_102_Zrn_A_1_POS_25	1003.14	27.96	27.58	207Pb/235Uc	293	3.93	1.53471	0.29685	0.15930	0.00430	1003.14	27.96	27.58	963.13	27.21	27.15	1091.61	83.35	81.16
P1462_102_Zrn_A_1_POS_68	1014.34	30.47	30.40	206Pb/238U	86	2.50	2.06366	0.45750	0.17214	0.00533	1003.98	52.98	51.63	1014.34	30.47	30.40	981.44	173.16	164.01
P1462_102_Zrn_A_1_POS_46	1034.20	34.19	33.63	207Pb/235Uc	205	3.01	1.71072	0.33589	0.16225	0.00498	1034.20	34.19	33.63	1020.87	34.98	34.88	1062.49	93.26	90.53
P1462_102_Zrn_A_1_POS_18	1064.95	22.34	22.30	206Pb/238U	685	1.96	1.76691	0.22735	0.17722	0.00382	1098.46	24.04	23.76	1064.95	22.34	22.30	1165.48	67.44	65.99
P1462_102_Zrn_A_1_POS_41	1121.26	35.49	34.88	207Pb/235Uc	485	2.43	2.00965	0.35112	0.15825	0.00377	1121.26	35.49	34.88	1068.42	39.28	39.16	1225.14	93.00	90.26
P1462_102_Zrn_A_1_POS_56	1121.45	39.88	39.76	206Pb/238U	166	0.83	2.60187	0.59941	0.18189	0.00587	1259.36	106.69	101.37	1121.45	39.88	39.76	1503.40	284.05	259.60
P1462_102_Zrn_A_1_POS_23	1149.87	28.14	27.75	207Pb/235Uc	575	2.17	2.04865	0.26155	0.19229	0.00569	1149.87	28.14	27.75	1130.26	31.64	31.56	1187.06	74.42	72.66
P1462_102_Zrn_A_1_POS_31	1168.54	26.40	26.06	207Pb/235Uc	268	2.17	2.25266	0.37038	0.19422	0.00568	1168.54	26.40	26.06	1142.47	30.66	30.59	1217.15	72.40	70.73
P1462_102_Zrn_A_1_POS_19	1202.79	43.74	42.82	207Pb/235Uc	152	2.23	1.87624	0.36881	0.19880	0.00807	1202.79	43.74	42.82	1226.44	59.00	58.73	1160.58	86.79	84.41
P1462_102_Zrn_A_1_POS_71	1217.55	26.19	25.86	207Pb/235Uc	189	2.73	2.67225	0.54751	0.20357	0.00461	1217.55	26.19	25.86	1215.07	26.73	26.68	1221.94	70.21	68.64

**Table 2.** U–Pb age data from the Cretaceous Colombian back–arc basin (*continued*).

Analysis name	Preferred age (Ma)	Sample GPS–89																	
		2 –sigma	2 +sigma	Age type	[U] (ppm)	U/Th	207Pb/235U Ratio	2 sigma	206Pb/238U Ratio	2 sigma	207Pb/235Uc age (Ma)	2 –sigma	2 +sigma	206Pb/238U age (Ma)	2 –sigma	2 +sigma	207Pb/206Pb age (Ma)	2 –sigma	2 +sigma
P1462_102_Zrn_A_1_POS_54	1247.26	30.04	29.60	207Pb/235Uc	324	3.87	2.60904	0.49802	0.20707	0.00571	1247.26	30.04	29.60	1233.23	33.48	33.39	1271.56	76.05	74.21
P1462_102_Zrn_A_1_POS_73	1267.61	53.96	53.73	206Pb/238U	51	4.31	2.35732	1.03147	0.21899	0.00957	1247.26	61.42	59.61	1267.61	53.96	53.73	1212.30	157.77	150.05
P1462_102_Zrn_A_1_POS_99	1272.24	25.36	25.05	207Pb/235Uc	182	3.52	2.79602	0.47393	0.21284	0.00503	1272.24	25.36	25.05	1246.95	30.05	29.98	1315.24	58.37	57.27
P1462_102_Zrn_A_1_POS_47	1290.75	53.47	53.25	206Pb/238U	257	2.41	3.16667	0.87930	0.22101	0.00777	1339.44	61.75	59.92	1290.75	53.47	53.25	1418.12	143.74	137.23
P1462_102_Zrn_A_1_POS_97	1291.93	25.45	25.40	206Pb/238U	508	3.24	2.83956	0.40475	0.22268	0.00465	1311.88	26.24	25.91	1291.93	25.45	25.40	1344.65	63.58	62.28
P1462_102_Zrn_A_1_POS_95	1303.94	22.84	22.59	207Pb/235Uc	950	1.91	2.86321	0.28986	0.22141	0.00494	1303.94	22.84	22.59	1293.95	27.98	27.92	1320.41	56.66	55.63
P1462_102_Zrn_A_1_POS_98	1305.50	35.28	35.18	206Pb/238U	145	2.28	2.07604	0.35656	0.22173	0.00590	1324.15	38.39	37.68	1305.50	35.28	35.18	1354.45	98.74	95.64
P1462_102_Zrn_A_1_POS_64	1318.67	37.04	36.38	207Pb/235Uc	151	3.30	2.54845	0.46475	0.22748	0.00788	1318.67	37.04	36.38	1307.73	41.13	41.00	1336.50	83.31	81.09
P1462_102_Zrn_A_1_POS_17	1322.38	32.39	32.31	206Pb/238U	320	1.31	2.28945	0.37728	0.19841	0.00528	1332.73	35.48	34.87	1322.38	32.39	32.31	1349.39	93.02	90.26
P1462_102_Zrn_A_1_POS_9	1353.58	81.48	78.33	207Pb/235Uc	72	2.09	2.90322	0.96159	0.15125	0.00722	1353.58	81.48	78.33	1285.24	102.65	101.84	1463.24	141.87	135.52
P1462_102_Zrn_A_1_POS_65	1403.18	38.11	37.41	207Pb/235Uc	649	2.35	3.08618	0.58029	0.22965	0.00772	1403.18	38.11	37.41	1350.62	47.67	47.49	1483.94	79.50	77.46
P1462_102_Zrn_A_1_POS_103	1419.52	34.45	33.87	207Pb/235Uc	240	3.13	2.98296	0.67130	0.24521	0.00844	1419.52	34.45	33.87	1413.33	43.78	43.63	1428.81	64.22	62.88
P1462_102_Zrn_A_1_POS_45	1448.25	34.93	34.34	207Pb/235Uc	352	2.64	3.23576	0.52584	0.25269	0.00752	1448.25	34.93	34.34	1457.27	38.84	38.72	1435.04	79.73	77.68
P1462_102_Zrn_A_1_POS_14	1464.51	59.02	57.35	207Pb/235Uc	50	1.39	3.20735	0.86336	0.24541	0.01264	1464.51	59.02	57.35	1451.79	73.37	72.95	1483.02	105.70	102.12
P1462_102_Zrn_A_1_POS_83	1472.91	44.73	43.77	207Pb/235Uc	74	0.92	4.30122	0.99286	0.26505	0.00937	1472.91	44.73	43.77	1485.19	51.21	51.01	1455.27	101.45	98.16
P1462_102_Zrn_A_1_POS_55	1478.43	31.89	31.39	207Pb/235Uc	216	2.09	3.66092	0.67042	0.25197	0.00773	1478.43	31.89	31.39	1455.41	39.97	39.84	1511.63	62.73	61.46
P1462_102_Zrn_A_1_POS_78	1493.41	33.35	33.26	206Pb/238U	59	1.13	4.28456	1.71052	0.26459	0.00658	1503.69	42.89	42.01	1493.41	33.35	33.26	1518.20	100.52	97.27
P1462_102_Zrn_A_1_POS_108	1522.20	30.36	29.91	207Pb/235Uc	287	2.22	4.43670	0.83094	0.26204	0.00586	1522.20	30.36	29.91	1510.40	32.21	32.13	1538.65	74.49	72.69
P1462_102_Zrn_A_1_POS_15	1528.71	33.00	32.47	207Pb/235Uc	169	1.90	4.19836	1.14265	0.26155	0.00718	1528.71	33.00	32.47	1516.42	40.07	39.95	1545.77	69.61	68.03
P1462_102_Zrn_A_1_POS_63	1533.04	49.11	47.95	207Pb/235Uc	394	1.75	3.84099	0.47654	0.27137	0.01321	1533.04	49.11	47.95	1494.77	70.83	70.44	1586.26	101.81	98.47
P1462_102_Zrn_A_1_POS_21	1533.27	44.80	44.64	206Pb/238U	102	0.86	3.24546	0.74060	0.26860	0.00840	1516.89	48.14	47.02	1533.27	44.80	44.64	1494.11	106.52	102.89
P1462_102_Zrn_A_1_POS_36	1534.12	65.14	63.12	207Pb/235Uc	165	1.33	3.27989	1.07520	0.12546	0.00387	1534.12	65.14	63.12	1535.38	94.30	93.61	1532.40	99.28	96.12
P1462_102_Zrn_A_1_POS_92	1534.98	27.38	27.01	207Pb/235Uc	535	0.97	3.61136	0.59915	0.26877	0.00568	1534.98	27.38	27.01	1540.47	30.28	30.21	1527.42	58.72	57.60
P1462_102_Zrn_A_1_POS_60	1542.61	30.87	30.41	207Pb/235Uc	166	2.31	3.25616	0.60041	0.27051	0.00795	1542.61	30.87	30.41	1541.51	44.72	44.56	1544.12	63.12	61.83
P1462_102_Zrn_A_1_POS_66	1544.13	128.80	121.11	207Pb/235Uc	245	1.68	2.63388	0.84095	0.17589	0.00733	1544.13	128.80	121.11	1454.68	184.32	181.72	1668.82	157.86	149.95
P1462_102_Zrn_A_1_POS_42	1614.31	35.55	35.46	206Pb/238U	202	2.00	4.21773	0.92969	0.28000	0.00669	1628.77	37.81	37.12	1614.31	35.55	35.46	1647.49	82.24	80.05
P1462_102_Zrn_A_1_POS_74	1628.89	124.02	116.88	207Pb/235Uc	164	1.07	3.30888	0.84609	0.17981	0.00732	1628.89	124.02	116.88	1562.77	188.57	185.85	1715.36	153.24	145.76
P1462_102_Zrn_A_1_POS_81	1646.84	25.63	25.31	207Pb/235Uc	347	2.01	4.68483	0.79159	0.29019	0.00662	1646.84	25.63	25.31	1649.47	34.57	34.48	1643.48	56.49	55.44
P1462_102_Zrn_A_1_POS_82	1655.95	41.78	40.93	207Pb/235Uc	361	1.60	4.59809	0.82323	0.27354	0.00728	1655.95	41.78	40.93	1602.51	52.48	52.27	1724.42	83.23	80.97
P1462_102_Zrn_A_1_POS_53	1662.95	31.53	31.04	207Pb/235Uc	490	1.80	4.66891	0.68835	0.28078	0.00660	1662.95	31.53	31.04	1611.32	37.42	37.31	1728.77	61.84	60.59
P1462_102_Zrn_A_1_POS_70	1697.33	35.79	35.17	207Pb/235Uc	246	1.37	4.37996	0.99096	0.29063	0.00731	1697.33	35.79	35.17	1673.09	47.47	47.29	1727.39	66.30	64.85
P1462_102_Zrn_A_1_POS_90	1714.19	34.44	33.87	207Pb/235Uc	196	1.47	5.12871	0.70996	0.29972	0.00705	1714.19	34.44	33.87	1692.70	37.62	37.51	1740.55	70.57	68.94
P1462_102_Zrn_A_1_POS_51	1719.06	38.89	38.16	207Pb/235Uc	275	2.65	4.35022	0.66116	0.30841	0.01143	1719.06	38.89	38.16	1750.83	56.91	56.66	1680.59	65.86	64.45
P1462_102_Zrn_A_1_POS_80	1744.73	32.22	31.72	207Pb/235Uc	245	1.71	4.57614	0.76490	0.30802	0.00749	1744.73	32.22	31.72	1730.56	37.97	37.86	1761.77	62.43	61.15
P1462_102_Zrn_A_1_POS_5	1751.57	70.27	67.92	207Pb/235Uc	289	2.21	4.30968	1.18914	0.23750	0.00950	1751.57	70.27	67.92	1732.64	112.22	111.26	1774.24	76.95	75.01
P1462_102_Zrn_A_1_POS_16	1755.48	34.78	34.20	207Pb/235Uc	315	1.51	4.84571	0.73706	0.30159	0.00924	1755.48	34.78	34.20	1777.34	56.57	56.32	1729.56	61.30	60.07
P1462_102_Zrn_A_1_POS_62	1756.55	27.73	27.36	207Pb/235Uc	438	15.56	5.16120	0.76795	0.30441	0.00798	1756.55	27.73	27.36	1716.67	41.93	41.79	1804.33	48.17	47.41
P1462_102_Zrn_A_1_POS_40	1785.99	90.42	87.75	207Pb/206Pb	218	1.25	4.91224	3.24871	0.11962	0.00388	1655.65	131.36	123.38	1554.87	210.52	207.14	1785.99	90.42	87.75
P1462_102_Zrn_A_1_POS_38	1786.64	34.40	33.83	207Pb/235Uc	225	2.51	5.79151	1.11650	0.31488	0.00841	1786.64	34.40	33.83	1776.45	41.40	41.26	1798.56	72.32	70.60
P1462_102_Zrn_A_1_POS_105	1807.95	36.39	35.75	207Pb/235Uc	104	0.90	4.89324	1.32503	0.31475	0.00856	1807.95	36.39	35.75	1797.22	44.05	43.90	1820.34	70.66	69.02
P1462_102_Zrn_A_1_POS_69	1810.99	87.24	84.76	207Pb/206Pb	185	1.21	6.58082	5.98353	0.07046	0.00278	1821.51	272.57	240.28	1830.73	485.92	468.27	1810.99	87.24	84.76
P1462_102_Zrn_A_1_POS_102	1843.73	45.23	44.24	207Pb/235Uc	294	1.35	5.15426	1.12326	0.29057	0.00727	1843.73	45.23	44.24	1833.20	61.44	61.15	1855.63	72.35	70.62

**Table 2.** U–Pb age data from the Cretaceous Colombian back–arc basin (*continued*).

Sample GPS–89																			
Analysis name	Preferred age (Ma)	2 –sigma	2 +sigma	Age type	[U] (ppm)	U/Th	207Pb/235U Ratio	2 sigma	206Pb/238U Ratio	2 sigma	207Pb/235Uc age (Ma)	2 –sigma	2 +sigma	206Pb/238U age (Ma)	2 –sigma	2 +sigma	207Pb/206Pb age (Ma)	2 –sigma	2 +sigma
P1462_102_Zrn_A_1_POS_13	1857.76	49.11	48.92	206Pb/238U	144	1.42	4.36432	1.27414	0.31577	0.00741	1914.22	57.12	55.56	1857.76	49.11	48.92	1975.95	113.96	109.72
P1462_102_Zrn_A_1_POS_10	1883.05	34.10	33.54	207Pb/235Uc	108	2.94	4.95398	0.98355	0.34166	0.00905	1883.05	34.10	33.54	1891.15	43.55	43.40	1874.14	68.22	66.69
P1462_102_Zrn_A_1_POS_29	1932.10	33.04	32.51	207Pb/235Uc	213	1.70	5.27813	0.90885	0.34312	0.00977	1932.10	33.04	32.51	1927.93	47.95	47.77	1936.58	62.34	61.05
P1462_102_Zrn_A_1_POS_79	1941.46	36.29	35.65	207Pb/235Uc	115	2.24	5.79699	1.30792	0.35380	0.01065	1941.46	36.29	35.65	1928.71	53.61	53.39	1955.09	60.30	59.09
P1462_102_Zrn_A_1_POS_106	1989.20	45.82	44.81	207Pb/235Uc	255	1.76	6.99596	1.57107	0.33822	0.00838	1989.20	45.82	44.81	1959.16	48.17	47.99	2020.56	89.01	86.40
P1462_102_Zrn_A_1_POS_77	2285.09	72.52	70.02	207Pb/235Uc	48	0.67	10.16399	3.81878	0.39226	0.01440	2285.09	72.52	70.02	2221.37	100.71	99.93	2342.58	110.63	106.57
P1462_102_Zrn_A_1_POS_24	2755.05	49.04	47.89	207Pb/235Uc	338	2.28	15.99987	3.81832	0.44618	0.01061	2755.05	49.04	47.89	2724.07	76.89	76.44	2777.83	79.14	77.01
Sample GPS–270																			
Analysis name	Preferred age (Ma)	2 –sigma	2 +sigma	Age type	[U] (ppm)	U/Th	207Pb/235U Ratio	2 sigma	206Pb/238U Ratio	2 sigma	207Pb/235Uc age (Ma)	2 –sigma	2 +sigma	206Pb/238U age (Ma)	2 –sigma	2 +sigma	207Pb/206Pb age (Ma)	2 –sigma	2 +sigma
P1462_104_Zrn_A_1_POS_63	164.07	6.08	6.08	206Pb/238U	569	1.10	0.19158	0.02075	0.02578	0.00097	177.97	17.76	17.60	164.07	6.08	6.08	366.95	256.00	237.17
P1462_104_Zrn_A_1_POS_12	168.72	5.82	5.82	206Pb/238U	190	0.83	0.20065	0.02562	0.02652	0.00093	185.68	21.78	21.55	168.72	5.82	5.82	407.18	303.59	277.40
P1462_104_Zrn_A_1_POS_90	168.93	20.51	20.48	206Pb/238U	46	1.10	0.20349	0.06529	0.02655	0.00326	188.07	55.84	54.35	168.93	20.51	20.48	435.79	865.44	681.22
P1462_104_Zrn_A_1_POS_67	169.18	5.67	5.67	206Pb/238U	506	1.34	0.20177	0.02584	0.02659	0.00090	186.62	21.95	21.72	169.18	5.67	5.67	413.60	303.25	277.10
P1462_104_Zrn_A_1_POS_13	169.58	5.62	5.62	206Pb/238U	453	0.98	0.17906	0.02835	0.02666	0.00089	167.25	24.56	24.26	169.58	5.62	5.62	134.39	268.79	353.18
P1462_104_Zrn_A_1_POS_75	169.92	10.77	10.76	206Pb/238U	385	0.62	0.19569	0.03118	0.02671	0.00171	181.48	26.65	26.31	169.92	10.77	10.76	334.73	399.62	355.61
P1462_104_Zrn_A_1_POS_48	170.02	6.82	6.82	206Pb/238U	453	0.56	0.18494	0.01359	0.02673	0.00109	172.30	11.68	11.61	170.02	6.82	6.82	203.77	184.67	174.77
P1462_104_Zrn_A_1_POS_29	170.87	11.88	11.87	206Pb/238U	363	1.03	0.19297	0.02253	0.02686	0.00189	179.16	19.27	19.09	170.87	11.88	11.87	290.02	285.22	262.14
P1462_104_Zrn_A_1_POS_62	171.10	8.19	8.19	206Pb/238U	127	1.55	0.18708	0.03687	0.02690	0.00130	174.14	31.79	31.30	171.10	8.19	8.19	215.64	431.28	423.18
P1462_104_Zrn_A_1_POS_37	171.31	6.28	6.27	206Pb/238U	970	0.89	0.17328	0.02110	0.02693	0.00100	162.26	18.35	18.18	171.31	6.28	6.27	32.06	64.12	274.63
P1462_104_Zrn_A_1_POS_109	171.36	11.14	11.13	206Pb/238U	94	1.31	0.19212	0.04187	0.02694	0.00177	178.44	35.98	35.35	171.36	11.14	11.13	273.31	546.62	472.96
P1462_104_Zrn_A_1_POS_71	171.96	7.32	7.32	206Pb/238U	498	0.83	0.19503	0.01675	0.02703	0.00117	180.91	14.28	14.18	171.96	7.32	7.32	299.55	211.33	198.39
P1462_104_Zrn_A_1_POS_61	172.18	18.07	18.05	206Pb/238U	98	1.32	0.19485	0.03640	0.02707	0.00288	180.76	31.17	30.70	172.18	18.07	18.05	294.57	504.35	436.35
P1462_104_Zrn_A_1_POS_10	172.28	7.67	7.67	206Pb/238U	144	1.10	0.20059	0.04385	0.02708	0.00122	185.63	37.43	36.75	172.28	7.67	7.67	359.07	539.62	462.21
P1462_104_Zrn_A_1_POS_33	172.33	7.87	7.86	206Pb/238U	444	1.06	0.18920	0.01872	0.02709	0.00125	175.94	16.05	15.92	172.33	7.87	7.86	224.76	225.04	210.49
P1462_104_Zrn_A_1_POS_91	172.38	10.43	10.43	206Pb/238U	201	0.96	0.20193	0.03532	0.02710	0.00166	186.75	30.06	29.62	172.38	10.43	10.43	372.62	423.00	373.90
P1462_104_Zrn_A_1_POS_68	172.45	8.10	8.09	206Pb/238U	227	1.50	0.18904	0.03124	0.02711	0.00129	175.81	26.85	26.50	172.45	8.10	8.09	221.25	418.46	370.78
P1462_104_Zrn_A_1_POS_20	172.91	8.14	8.13	206Pb/238U	305	1.03	0.19113	0.02103	0.02718	0.00130	177.59	18.01	17.85	172.91	8.14	8.13	240.42	272.52	251.44
P1462_104_Zrn_A_1_POS_98	172.99	14.23	14.22	206Pb/238U	211	0.84	0.20564	0.04461	0.02720	0.00227	189.89	37.92	37.23	172.99	14.23	14.22	405.55	522.52	449.42
P1462_104_Zrn_A_1_POS_85	173.11	4.72	4.72	206Pb/238U	290	1.07	0.19294	0.03298	0.02722	0.00075	179.14	28.26	27.87	173.11	4.72	4.72	259.46	419.08	371.16
P1462_104_Zrn_A_1_POS_93	173.57	6.42	6.42	206Pb/238U	478	1.88	0.19231	0.02454	0.02729	0.00102	178.60	21.01	20.79	173.57	6.42	6.42	245.72	308.85	282.04
P1462_104_Zrn_A_1_POS_57	173.66	5.39	5.38	206Pb/238U	332	1.03	0.18508	0.02155	0.02730	0.00086	172.42	18.55	18.38	173.66	5.39	5.38	155.54	281.10	258.85
P1462_104_Zrn_A_1_POS_22	174.37	11.43	11.42	206Pb/238U	208	1.03	0.21228	0.03613	0.02742	0.00182	195.47	30.49	30.04	174.37	11.43	11.42	458.47	413.26	366.03
P1462_104_Zrn_A_1_POS_45	174.53	9.82	9.81	206Pb/238U	112	1.14	0.19479	0.02449	0.02744	0.00156	180.71	20.92	20.71	174.53	9.82	9.81	262.26	319.43	290.81
P1462_104_Zrn_A_1_POS_31	174.68	6.56	6.56	206Pb/238U	286	0.61	0.20940	0.03185	0.02747	0.00105	193.05	26.92	26.57	174.68	6.56	6.56	424.00	358.12	322.19
P1462_104_Zrn_A_1_POS_81	174.94	7.61	7.60	206Pb/238U	223	1.04	0.19022	0.02821	0.02751	0.00121	176.81	24.21	23.93	174.94	7.61	7.60	201.89	367.82	330.51
P1462_104_Zrn_A_1_POS_70	175.08	8.70	8.69	206Pb/238U	208	1.13	0.20144	0.03934	0.02753	0.00139	186.34	33.52	32.98	175.08	8.70	8.69	331.58	481.48	419.00
P1462_104_Zrn_A_1_POS_72	175.16	7.70	7.69	206Pb/238U	221	1.27	0.18246	0.01379	0.02754	0.00123	170.17	11.88	11.81	175.16	7.70	7.69	101.35	199.24	187.84
P1462_104_Zrn_A_1_POS_40	175.19	7.15	7.15	206Pb/238U	484	0.61	0.19555	0.02951	0.02755	0.00114	181.36	25.22	24.91	175.19	7.15	7.15	262.48	375.75	336.76
P1462_104_Zrn_A_1_POS_95	175.44	8.06	8.05	206Pb/238U	214	1.40	0.20558	0.03050	0.02759	0.00128	189.84	25.85	25.53	175.44	8.06	8.05	372.89	360.57	324.28
P1462_104_Zrn_A_1_POS_49	175.63	6.90	6.90	206Pb/238U	184	1.03	0.20605	0.03957	0.02762	0.00110	190.23	33.59	33.04	175.63	6.90	6.90	375.49	459.73	402.29



**Table 2.** U–Pb age data from the Cretaceous Colombian back–arc basin (*continued*).

Analysis name	Preferred age (Ma)	Sample GPS–270																	
		2 –sigma	2 +sigma	Age type	[U] (ppm)	U/Th	207Pb/235U Ratio	2 sigma	206Pb/238U Ratio	2 sigma	207Pb/235Uc age (Ma)	2 –sigma	2 +sigma	206Pb/238U age (Ma)	2 –sigma	2 +sigma	207Pb/206Pb age (Ma)	2 –sigma	2 +sigma
P1462_104_Zrn_A_1_POS_60	175.86	5.28	5.28	206Pb/238U	542	0.64	0.18535	0.01321	0.02766	0.00084	172.65	11.35	11.28	175.86	5.28	5.28	128.94	169.48	161.14
P1462_104_Zrn_A_1_POS_77	176.23	7.25	7.25	206Pb/238U	542	0.66	0.19049	0.01117	0.02771	0.00116	177.05	9.55	9.51	176.23	7.25	7.25	188.00	151.49	144.77
P1462_104_Zrn_A_1_POS_64	176.72	11.51	11.50	206Pb/238U	176	1.16	0.21863	0.04143	0.02779	0.00183	200.77	34.82	34.23	176.72	11.51	11.50	493.65	468.22	408.38
P1462_104_Zrn_A_1_POS_104	177.17	18.26	18.23	206Pb/238U	167	1.49	0.21196	0.05306	0.02786	0.00291	195.20	44.95	43.98	177.17	18.26	18.23	419.08	622.73	521.51
P1462_104_Zrn_A_1_POS_66	177.21	4.05	4.05	206Pb/238U	570	0.96	0.19387	0.01167	0.02787	0.00065	179.93	9.95	9.90	177.21	4.05	4.05	215.80	143.13	137.10
P1462_104_Zrn_A_1_POS_6	177.39	7.95	7.94	206Pb/238U	158	1.24	0.21803	0.06335	0.02790	0.00127	200.27	53.51	52.13	177.39	7.95	7.94	478.98	718.86	586.80
P1462_104_Zrn_A_1_POS_26	177.41	11.98	11.97	206Pb/238U	62	1.94	0.20449	0.05167	0.02790	0.00191	188.92	44.03	43.10	177.41	11.98	11.97	335.28	630.21	527.21
P1462_104_Zrn_A_1_POS_24	177.42	5.73	5.73	206Pb/238U	170	0.93	0.19324	0.02695	0.02791	0.00091	179.39	23.06	22.80	177.42	5.73	5.73	205.31	337.25	305.61
P1462_104_Zrn_A_1_POS_21	177.46	22.28	22.25	206Pb/238U	27	1.18	0.24653	0.33747	0.02791	0.00355	223.76	295.36	257.81	177.46	22.28	22.25	743.69	1487.38	2045.07
P1462_104_Zrn_A_1_POS_4	177.76	6.23	6.23	206Pb/238U	562	0.67	0.19751	0.01820	0.02796	0.00099	183.02	15.49	15.37	177.76	6.23	6.23	251.48	215.79	202.35
P1462_104_Zrn_A_1_POS_94	178.00	8.97	8.96	206Pb/238U	199	1.25	0.19231	0.02915	0.02800	0.00143	178.60	24.98	24.67	178.00	8.97	8.96	186.53	366.21	329.24
P1462_104_Zrn_A_1_POS_97	178.07	7.57	7.57	206Pb/238U	177	1.09	0.20849	0.02708	0.02801	0.00121	192.28	22.88	22.62	178.07	7.57	7.57	370.53	314.37	286.43
P1462_104_Zrn_A_1_POS_15	178.19	10.39	10.38	206Pb/238U	135	1.47	0.21274	0.07351	0.02803	0.00166	195.85	62.50	60.63	178.19	10.39	10.38	414.31	828.62	689.76
P1462_104_Zrn_A_1_POS_96	178.21	6.16	6.16	206Pb/238U	178	1.46	0.21164	0.03525	0.02803	0.00098	194.93	29.75	29.33	178.21	6.16	6.16	402.52	399.25	355.15
P1462_104_Zrn_A_1_POS_65	178.23	5.34	5.34	206Pb/238U	1166	0.34	0.19541	0.01523	0.02803	0.00085	181.23	12.98	12.90	178.23	5.34	5.34	220.57	182.88	173.15
P1462_104_Zrn_A_1_POS_107	178.27	7.46	7.46	206Pb/238U	126	1.08	0.19950	0.04244	0.02804	0.00119	184.70	36.24	35.61	178.27	7.46	7.46	267.82	532.46	457.35
P1462_104_Zrn_A_1_POS_84	178.30	8.69	8.69	206Pb/238U	471	0.86	0.19341	0.01720	0.02805	0.00139	179.53	14.68	14.58	178.30	8.69	8.69	195.78	211.89	198.96
P1462_104_Zrn_A_1_POS_30	178.35	6.88	6.88	206Pb/238U	257	1.57	0.20608	0.03928	0.02805	0.00110	190.26	33.34	32.80	178.35	6.88	6.88	340.76	468.49	409.10
P1462_104_Zrn_A_1_POS_74	178.36	4.58	4.57	206Pb/238U	913	0.95	0.19511	0.01456	0.02805	0.00073	180.98	12.41	12.33	178.36	4.58	4.57	215.35	180.69	171.19
P1462_104_Zrn_A_1_POS_83	178.61	6.37	6.37	206Pb/238U	213	1.84	0.20934	0.03195	0.02809	0.00102	193.00	27.00	26.65	178.61	6.37	6.37	372.91	364.03	327.07
P1462_104_Zrn_A_1_POS_7	178.66	8.76	8.76	206Pb/238U	134	1.52	0.20292	0.02991	0.02810	0.00140	187.59	25.41	25.09	178.66	8.76	8.76	301.49	361.26	324.99
P1462_104_Zrn_A_1_POS_11	178.71	4.42	4.42	206Pb/238U	539	2.01	0.19197	0.01717	0.02811	0.00071	178.31	14.68	14.57	178.71	4.42	4.42	172.98	217.56	203.97
P1462_104_Zrn_A_1_POS_89	178.72	8.37	8.36	206Pb/238U	718	1.78	0.19354	0.01565	0.02811	0.00133	179.64	13.36	13.27	178.72	8.37	8.36	191.82	198.45	187.07
P1462_104_Zrn_A_1_POS_8	178.72	9.55	9.54	206Pb/238U	76	1.59	0.17973	0.04625	0.02811	0.00152	167.83	40.20	39.42	178.72	9.55	9.54	16.84	33.67	572.35
P1462_104_Zrn_A_1_POS_88	178.82	16.63	16.61	206Pb/238U	53	1.16	0.20752	0.05671	0.02813	0.00265	191.47	48.26	47.14	178.82	16.63	16.61	350.37	700.74	583.78
P1462_104_Zrn_A_1_POS_41	179.03	7.08	7.08	206Pb/238U	427	1.35	0.19331	0.03802	0.02816	0.00113	179.45	32.61	32.10	179.03	7.08	7.08	185.00	370.01	431.38
P1462_104_Zrn_A_1_POS_73	179.22	7.16	7.16	206Pb/238U	231	1.02	0.19273	0.03109	0.02819	0.00114	178.95	26.64	26.30	179.22	7.16	7.16	175.45	350.90	353.41
P1462_104_Zrn_A_1_POS_82	179.40	10.82	10.81	206Pb/238U	473	1.15	0.18242	0.01699	0.02822	0.00173	170.14	14.64	14.54	179.40	10.82	10.81	43.18	86.35	227.42
P1462_104_Zrn_A_1_POS_9	179.54	14.19	14.17	206Pb/238U	117	1.24	0.21251	0.03692	0.02824	0.00226	195.66	31.16	30.69	179.54	14.19	14.17	394.80	442.46	388.95
P1462_104_Zrn_A_1_POS_16	179.70	10.61	10.60	206Pb/238U	158	1.44	0.18791	0.04116	0.02827	0.00169	174.84	35.49	34.88	179.70	10.61	10.60	109.59	219.17	489.06
P1462_104_Zrn_A_1_POS_19	179.71	7.25	7.24	206Pb/238U	172	0.94	0.19556	0.03567	0.02827	0.00116	181.36	30.52	30.07	179.71	7.25	7.24	202.89	405.79	398.26
P1462_104_Zrn_A_1_POS_46	180.32	4.96	4.95	206Pb/238U	324	1.73	0.20574	0.01698	0.02837	0.00079	189.97	14.35	14.25	180.32	4.96	4.95	311.64	194.22	183.22
P1462_104_Zrn_A_1_POS_78	180.39	7.67	7.66	206Pb/238U	160	1.66	0.19986	0.04437	0.02838	0.00122	185.01	37.90	37.21	180.39	7.67	7.66	244.43	488.87	479.21
P1462_104_Zrn_A_1_POS_23	180.65	7.29	7.28	206Pb/238U	140	1.39	0.19801	0.03468	0.02842	0.00116	183.44	29.61	29.18	180.65	7.29	7.28	219.47	436.78	385.09
P1462_104_Zrn_A_1_POS_42	180.66	15.42	15.40	206Pb/238U	153	0.87	0.18817	0.04498	0.02842	0.00246	175.07	38.81	38.08	180.66	15.42	15.40	100.20	200.41	542.21
P1462_104_Zrn_A_1_POS_34	180.84	6.98	6.98	206Pb/238U	463	0.98	0.19646	0.01557	0.02845	0.00111	182.13	13.26	13.17	180.84	6.98	6.98	198.82	193.11	182.31
P1462_104_Zrn_A_1_POS_55	181.08	8.49	8.48	206Pb/238U	152	1.20	0.19846	0.02608	0.02849	0.00135	183.82	22.21	21.97	181.08	8.49	8.48	219.13	323.38	294.16
P1462_104_Zrn_A_1_POS_92	181.25	11.77	11.76	206Pb/238U	65	0.84	0.20757	0.03864	0.02852	0.00188	191.52	32.76	32.24	181.25	11.77	11.76	320.02	472.14	411.95
P1462_104_Zrn_A_1_POS_0	181.52	13.19	13.17	206Pb/238U	215	0.90	0.19787	0.03165	0.02856	0.00210	183.32	27.01	26.65	181.52	13.19	13.17	206.63	413.26	371.22
P1462_104_Zrn_A_1_POS_87	181.73	8.43	8.42	206Pb/238U	243	0.97	0.19777	0.02389	0.02859	0.00134	183.24	20.35	20.15	181.73	8.43	8.42	202.73	296.47	271.75
P1462_104_Zrn_A_1_POS_76	182.11	4.31	4.31	206Pb/238U	471	0.81	0.20383	0.01306	0.02865	0.00069	188.36	11.05	10.99	182.11	4.31	4.31	267.50	153.53	146.60
P1462_104_Zrn_A_1_POS_105	182.46	6.57	6.56	206Pb/238U	427	2.21	0.20815	0.03466	0.02871	0.00105	192.00	29.34	28.92	182.46	6.57	6.56	310.87	406.46	361.09

**Table 2.** U–Pb age data from the Cretaceous Colombian back–arc basin (*continued*).

Sample GPS–270																			
Analysis name	Preferred age (Ma)	2–sigma	2 +sigma	Age type	[U] (ppm)	U/Th	207Pb/235U Ratio	2 sigma	206Pb/238U Ratio	2 sigma	207Pb/235Uc age (Ma)	2–sigma	2 +sigma	206Pb/238U age (Ma)	2–sigma	2 +sigma	207Pb/206Pb age (Ma)	2–sigma	2 +sigma
P1462_104_Zrn_A_1_POS_28	182.77	6.15	6.14	206Pb/238U	214	1.36	0.20301	0.02762	0.02876	0.00098	187.67	23.45	23.18	182.77	6.15	6.14	249.79	332.30	301.46
P1462_104_Zrn_A_1_POS_27	182.95	8.17	8.17	206Pb/238U	63	0.90	0.22703	0.06428	0.02879	0.00130	207.75	53.90	52.51	182.95	8.17	8.17	499.30	696.95	572.00
P1462_104_Zrn_A_1_POS_2	183.21	12.56	12.54	206Pb/238U	329	1.05	0.21335	0.02808	0.02883	0.00200	196.36	23.63	23.36	183.21	12.56	12.54	357.48	323.83	294.29
P1462_104_Zrn_A_1_POS_59	183.47	6.88	6.87	206Pb/238U	243	1.71	0.19153	0.01852	0.02887	0.00110	177.94	15.84	15.72	183.47	6.88	6.87	105.07	210.13	225.61
P1462_104_Zrn_A_1_POS_3	183.76	6.37	6.37	206Pb/238U	355	1.28	0.20146	0.01725	0.02892	0.00102	186.36	14.63	14.52	183.76	6.37	6.37	219.55	208.39	195.85
P1462_104_Zrn_A_1_POS_35	184.54	10.03	10.02	206Pb/238U	123	1.32	0.21520	0.04404	0.02904	0.00160	197.91	37.13	36.47	184.54	10.03	10.02	360.35	502.95	435.05
P1462_104_Zrn_A_1_POS_51	184.61	15.14	15.13	206Pb/238U	301	1.03	0.21281	0.02749	0.02905	0.00242	195.90	23.14	22.88	184.61	15.14	15.13	334.21	348.47	314.54
P1462_104_Zrn_A_1_POS_50	184.75	7.73	7.72	206Pb/238U	190	1.22	0.20548	0.02854	0.02907	0.00123	189.75	24.19	23.90	184.75	7.73	7.72	252.50	338.84	306.83
P1462_104_Zrn_A_1_POS_1	185.16	9.92	9.91	206Pb/238U	167	0.85	0.21098	0.03417	0.02914	0.00158	194.37	28.85	28.45	185.16	9.92	9.91	307.75	393.87	351.13
P1462_104_Zrn_A_1_POS_38	185.17	5.22	5.22	206Pb/238U	492	1.30	0.21066	0.01386	0.02914	0.00083	194.11	11.66	11.59	185.17	5.22	5.22	304.22	157.96	150.61
P1462_104_Zrn_A_1_POS_69	185.22	13.20	13.19	206Pb/238U	85	1.16	0.19790	0.03659	0.02915	0.00211	183.35	31.25	30.78	185.22	13.20	13.19	159.27	318.53	415.93
P1462_104_Zrn_A_1_POS_39	185.23	6.67	6.67	206Pb/238U	308	1.20	0.22721	0.03128	0.02915	0.00107	207.89	26.04	25.71	185.23	6.67	6.67	473.27	325.25	295.25
P1462_104_Zrn_A_1_POS_101	185.44	13.09	13.08	206Pb/238U	149	1.18	0.20815	0.04707	0.02918	0.00209	192.00	39.95	39.18	185.44	13.09	13.08	273.51	547.02	496.09
P1462_104_Zrn_A_1_POS_54	185.66	6.99	6.98	206Pb/238U	288	1.37	0.21013	0.02640	0.02922	0.00112	193.66	22.27	22.03	185.66	6.99	6.98	292.36	297.86	272.78
P1462_104_Zrn_A_1_POS_56	185.77	12.80	12.79	206Pb/238U	205	1.02	0.21510	0.02135	0.02924	0.00204	197.82	17.92	17.76	185.77	12.80	12.79	344.02	252.65	234.31
P1462_104_Zrn_A_1_POS_102	185.86	6.19	6.18	206Pb/238U	209	1.09	0.20030	0.03617	0.02925	0.00099	185.38	30.83	30.37	185.86	6.19	6.18	179.30	358.61	398.20
P1462_104_Zrn_A_1_POS_36	186.10	10.00	9.99	206Pb/238U	193	1.12	0.21649	0.03226	0.02929	0.00160	198.99	27.10	26.75	186.10	10.00	9.99	354.70	366.05	328.74
P1462_104_Zrn_A_1_POS_99	187.26	8.40	8.40	206Pb/238U	147	1.16	0.21235	0.03869	0.02948	0.00134	195.52	32.67	32.15	187.26	8.40	8.40	296.40	448.69	394.07
P1462_104_Zrn_A_1_POS_25	187.38	12.73	12.72	206Pb/238U	215	1.17	0.22254	0.03104	0.02949	0.00203	204.02	25.95	25.62	187.38	12.73	12.72	400.85	344.81	311.42
P1462_104_Zrn_A_1_POS_52	188.51	17.69	17.67	206Pb/238U	54	1.59	0.27628	0.11632	0.02967	0.00282	247.70	94.71	90.49	188.51	17.69	17.67	853.98	1028.29	772.99
P1462_104_Zrn_A_1_POS_32	188.63	13.39	13.37	206Pb/238U	107	1.49	0.22578	0.04859	0.02969	0.00214	206.71	40.65	39.86	188.63	13.39	13.37	418.19	541.68	463.46
P1462_104_Zrn_A_1_POS_103	188.68	8.90	8.90	206Pb/238U	97	1.37	0.22130	0.05559	0.02970	0.00142	202.99	46.76	45.70	188.68	8.90	8.90	372.65	629.79	526.71
P1462_104_Zrn_A_1_POS_5	188.71	13.50	13.48	206Pb/238U	208	1.12	0.22383	0.03679	0.02971	0.00215	205.09	30.76	30.30	188.71	13.50	13.48	397.76	394.11	351.09
P1462_104_Zrn_A_1_POS_53	188.82	5.77	5.77	206Pb/238U	178	1.30	0.20362	0.04333	0.02972	0.00092	188.19	36.89	36.23	188.82	5.77	5.77	180.32	360.64	462.84
P1462_104_Zrn_A_1_POS_100	189.30	11.21	11.20	206Pb/238U	241	1.62	0.20777	0.02695	0.02980	0.00179	191.68	22.79	22.53	189.30	11.21	11.20	221.11	320.88	292.09
P1462_104_Zrn_A_1_POS_43	190.44	39.48	39.36	206Pb/238U	31	1.40	0.23189	0.11593	0.02998	0.00630	211.76	97.88	93.38	190.44	39.48	39.36	456.01	912.01	910.24
P1462_104_Zrn_A_1_POS_79	191.49	10.99	10.98	206Pb/238U	132	1.37	0.19956	0.04353	0.03015	0.00176	184.75	37.19	36.52	191.49	10.99	10.98	99.36	198.72	479.96
P1462_104_Zrn_A_1_POS_106	191.78	13.18	13.16	206Pb/238U	58	1.85	0.23524	0.06880	0.03020	0.00210	214.51	57.35	55.78	191.78	13.18	13.16	472.05	737.06	598.91
P1462_104_Zrn_A_1_POS_18	196.63	9.08	9.07	206Pb/238U	245	0.98	0.22795	0.03390	0.03097	0.00145	208.50	28.23	27.84	196.63	9.08	9.07	344.87	359.96	323.84
P1462_104_Zrn_A_1_POS_108	205.48	12.50	12.49	206Pb/238U	95	1.35	0.26689	0.06342	0.03239	0.00200	240.20	51.48	50.21	205.48	12.50	12.49	595.02	566.82	480.92
P1462_104_Zrn_A_1_POS_80	630.00	16.36	16.34	206Pb/238U	357	12.61	0.87930	0.04808	0.10266	0.00280	640.61	26.15	25.81	630.00	16.36	16.34	678.18	114.75	110.73
P1462_104_Zrn_A_1_POS_58	988.77	37.22	37.11	206Pb/238U	96	1.22	1.68208	0.10697	0.16577	0.00672	1001.77	40.91	40.10	988.77	37.22	37.11	1030.32	117.86	113.53
P1462_104_Zrn_A_1_POS_47	997.92	23.83	23.79	206Pb/238U	368	3.93	1.69433	0.07013	0.16743	0.00431	1006.40	26.60	26.26	997.92	23.83	23.79	1024.89	75.86	74.05

  

Sample GPS–500																			
Analysis name	Preferred age (Ma)	2–sigma	2 +sigma	Age type	[U] (ppm)	U/Th	207Pb/235U Ratio	2 sigma	206Pb/238U Ratio	2 sigma	207Pb/235Uc age (Ma)	2–sigma	2 +sigma	206Pb/238U age (Ma)	2–sigma	2 +sigma	207Pb/206Pb age (Ma)	2–sigma	2 +sigma
P1462_009_Zrn_A_1_MBD_37	477.04	22.06	22.02	206Pb/238U	274	1.47	0.59823	0.04577	0.07681	0.00368	476.11	29.29	28.87	477.04	22.06	22.02	471.63	161.40	153.66
P1462_009_Zrn_A_1_MBD_74	495.44	29.76	29.69	206Pb/238U	54	2.25	0.60442	0.09182	0.07989	0.00498	480.04	58.95	57.29	495.44	29.76	29.69	407.10	367.93	330.14
P1462_009_Zrn_A_1_MBD_109	504.14	30.00	29.93	206Pb/238U	195	2.89	0.63123	0.05893	0.08134	0.00503	496.86	37.02	36.35	504.14	30.00	29.93	463.48	207.59	194.96
P1462_009_Zrn_A_1_MBD_99	603.91	31.56	31.48	206Pb/238U	176	1.77	0.80577	0.07629	0.09821	0.00537	600.08	43.36	42.45	603.91	31.56	31.48	585.64	202.73	190.57
P1462_009_Zrn_A_1_MBD_108	868.63	51.07	50.87	206Pb/238U	99	4.21	1.38964	0.13647	0.14425	0.00905	884.54	58.83	57.17	868.63	51.07	50.87	924.57	201.93	189.63

**Table 2.** U–Pb age data from the Cretaceous Colombian back–arc basin (*continued*).

Analysis name	Preferred age (Ma)	Sample GPS–500																	
		2 –sigma	2 +sigma	Age type	[U] (ppm)	U/Th	207Pb/235U Ratio	2 sigma	206Pb/238U Ratio	2 sigma	207Pb/235Uc age (Ma)	2 –sigma	2 +sigma	206Pb/238U age (Ma)	2 –sigma	2 +sigma	207Pb/206Pb age (Ma)	2 –sigma	2 +sigma
P1462_009_Zrn_A_1_MBD_0	888.37	69.77	69.39	206Pb/238U	43	2.87	1.50484	0.22295	0.14776	0.01239	932.35	92.45	88.42	888.37	69.77	69.39	1037.81	293.32	267.91
P1462_009_Zrn_A_1_MBD_45	927.20	66.03	65.69	206Pb/238U	72	1.92	1.52034	0.17319	0.15469	0.01180	938.61	71.00	68.60	927.20	66.03	65.69	965.49	195.78	184.18
P1462_009_Zrn_A_1_MBD_107	962.50	59.67	57.96	207Pb/235Uc	266	1.66	1.58034	0.14942	0.16041	0.01134	962.50	59.67	57.96	959.04	63.13	62.82	970.41	194.66	183.18
P1462_009_Zrn_A_1_MBD_83	966.34	43.30	42.40	207Pb/235Uc	549	1.78	1.59010	0.10929	0.16700	0.00967	966.34	43.30	42.40	995.54	53.52	53.30	900.47	140.22	134.18
P1462_009_Zrn_A_1_MBD_85	971.65	42.81	42.67	206Pb/238U	155	4.58	1.56113	0.11923	0.16268	0.00771	954.92	47.83	46.73	971.65	42.81	42.67	916.56	161.35	153.40
P1462_009_Zrn_A_1_MBD_101	1001.89	53.17	52.95	206Pb/238U	96	2.02	1.67159	0.18326	0.16815	0.00961	997.79	70.87	68.48	1001.89	53.17	52.95	988.78	231.81	215.70
P1462_009_Zrn_A_1_MBD_90	1003.83	49.62	49.43	206Pb/238U	35	1.59	1.58085	0.24695	0.16850	0.00898	962.70	99.56	94.91	1003.83	49.62	49.43	869.91	341.42	307.77
P1462_009_Zrn_A_1_MBD_51	1012.35	146.05	144.41	206Pb/238U	9	4.73	1.23375	0.52992	0.17004	0.02636	816.04	256.41	227.63	1012.35	146.05	144.41	312.52	625.04	847.41
P1462_009_Zrn_A_1_MBD_97	1032.29	59.65	57.95	207Pb/235Uc	96	111.21	1.76393	0.16001	0.17837	0.01399	1032.29	59.65	57.95	1058.09	76.77	76.31	978.04	183.73	173.46
P1462_009_Zrn_A_1_MBD_94	1045.66	48.78	47.64	207Pb/235Uc	352	27.54	1.80056	0.13295	0.17729	0.01128	1045.66	48.78	47.64	1052.14	61.90	61.60	1032.16	150.74	143.75
P1462_009_Zrn_A_1_MBD_18	1050.81	58.56	56.92	207Pb/235Uc	64	3.08	1.81481	0.16002	0.16871	0.01279	1050.81	58.56	56.92	1004.98	70.75	70.36	1147.35	180.89	170.84
P1462_009_Zrn_A_1_MBD_9	1053.44	55.40	55.16	206Pb/238U	43	3.43	1.98553	0.27972	0.17753	0.01010	1110.60	97.44	92.97	1053.44	55.40	55.16	1224.29	288.74	263.86
P1462_009_Zrn_A_1_MBD_39	1107.53	44.37	43.42	207Pb/235Uc	54	2.40	1.97652	0.12864	0.18922	0.00844	1107.53	44.37	43.42	1117.14	45.84	45.68	1088.71	132.59	127.12
P1462_009_Zrn_A_1_MBD_96	1114.32	98.15	97.41	206Pb/238U	43	2.52	1.95939	0.33353	0.18870	0.01803	1101.67	117.79	111.33	1114.32	98.15	97.41	1076.78	335.42	302.54
P1462_009_Zrn_A_1_MBD_106	1190.48	60.02	58.29	207Pb/235Uc	179	1.88	2.22987	0.18812	0.20175	0.01243	1190.48	60.02	58.29	1184.73	66.83	66.48	1200.93	167.21	158.57
P1462_009_Zrn_A_1_MBD_62	1202.21	52.80	52.59	206Pb/238U	77	1.06	2.27479	0.17745	0.20502	0.00985	1204.50	55.78	54.29	1202.21	52.80	52.59	1208.61	153.93	146.57
P1462_009_Zrn_A_1_MBD_56	1256.48	147.48	145.81	206Pb/238U	27	2.80	2.35305	0.64774	0.21520	0.02764	1228.48	206.28	187.25	1256.48	147.48	145.81	1179.68	571.72	481.84
P1462_009_Zrn_A_1_MBD_41	1287.68	51.30	50.04	207Pb/235Uc	160	1.80	2.55436	0.17734	0.21595	0.01538	1287.68	51.30	50.04	1260.42	81.80	81.29	1333.44	116.74	112.42
P1462_009_Zrn_A_1_MBD_24	1312.56	52.63	51.30	207Pb/235Uc	87	1.75	2.64252	0.18638	0.22246	0.01035	1312.56	52.63	51.30	1294.85	54.67	54.44	1341.61	128.38	123.18
P1462_009_Zrn_A_1_MBD_79	1320.04	58.93	57.27	207Pb/235Uc	82	1.59	2.66943	0.20989	0.21379	0.01492	1320.04	58.93	57.27	1248.96	79.50	79.01	1437.37	164.52	156.04
P1462_009_Zrn_A_1_MBD_72	1327.19	63.00	61.10	207Pb/235Uc	247	2.15	2.69539	0.22574	0.23076	0.01203	1327.19	63.00	61.10	1338.50	63.15	62.84	1308.99	154.08	146.66
P1462_009_Zrn_A_1_MBD_8	1328.31	59.06	58.79	206Pb/238U	171	2.07	2.67473	0.21974	0.22882	0.01123	1321.50	61.64	59.83	1328.31	59.06	58.79	1310.48	161.56	153.42
P1462_009_Zrn_A_1_MBD_14	1336.92	161.28	159.29	206Pb/238U	33	3.08	2.84478	0.70007	0.23046	0.03059	1367.43	193.85	176.95	1336.92	161.28	159.29	1415.44	476.23	411.51
P1462_009_Zrn_A_1_MBD_5	1340.57	50.26	49.05	207Pb/235Uc	149	3.00	2.74438	0.18306	0.23149	0.01000	1340.57	50.26	49.05	1342.32	52.43	52.22	1337.76	119.65	115.13
P1462_009_Zrn_A_1_MBD_70	1353.76	66.42	64.32	207Pb/235Uc	62	2.97	2.79336	0.24413	0.22196	0.01273	1353.76	66.42	64.32	1292.22	67.33	66.98	1452.34	184.49	173.88
P1462_009_Zrn_A_1_MBD_27	1355.62	67.51	65.34	207Pb/235Uc	103	1.64	2.80031	0.24851	0.22787	0.01711	1355.62	67.51	65.34	1323.33	90.16	89.54	1406.93	181.51	171.26
P1462_009_Zrn_A_1_MBD_23	1377.52	41.54	40.71	207Pb/235Uc	126	2.58	2.88315	0.15726	0.24200	0.00923	1377.52	41.54	40.71	1397.09	47.99	47.82	1347.31	100.79	97.56
P1462_009_Zrn_A_1_MBD_86	1377.53	53.57	52.19	207Pb/235Uc	180	1.66	2.88319	0.20218	0.23753	0.01299	1377.53	53.57	52.19	1373.82	67.82	67.46	1383.27	140.55	134.33
P1462_009_Zrn_A_1_MBD_13	1377.89	130.15	128.84	206Pb/238U	67	3.19	2.79835	0.50773	0.23831	0.02487	1355.10	140.48	131.39	1377.89	130.15	128.84	1319.30	327.57	295.76
P1462_009_Zrn_A_1_MBD_93	1383.70	76.87	74.07	207Pb/235Uc	69	2.42	2.90688	0.29026	0.24119	0.01647	1383.70	76.87	74.07	1392.89	85.80	85.23	1369.56	174.78	165.28
P1462_009_Zrn_A_1_MBD_50	1404.17	107.35	101.96	207Pb/235Uc	23	2.10	2.98645	0.41051	0.23793	0.03459	1404.17	107.35	101.96	1375.93	181.41	178.89	1447.32	277.95	254.57
P1462_009_Zrn_A_1_MBD_75	1405.99	91.90	87.92	207Pb/235Uc	57	2.30	2.99358	0.35340	0.23927	0.01838	1405.99	91.90	87.92	1382.89	95.95	95.24	1441.17	202.46	189.76
P1462_009_Zrn_A_1_MBD_88	1407.49	47.59	46.50	207Pb/235Uc	342	1.94	2.99948	0.18527	0.24076	0.01065	1407.49	47.59	46.50	1390.66	55.46	55.23	1433.05	123.16	118.34
P1462_009_Zrn_A_1_MBD_43	1424.91	71.83	69.37	207Pb/235Uc	96	1.24	3.06868	0.28279	0.24943	0.01820	1424.91	71.83	69.37	1435.53	94.26	93.58	1409.07	186.41	175.61
P1462_009_Zrn_A_1_MBD_49	1431.38	87.04	83.46	207Pb/235Uc	39	2.26	3.09469	0.34360	0.23006	0.02208	1431.38	87.04	83.46	1334.80	116.22	115.18	1578.04	157.10	149.30
P1462_009_Zrn_A_1_MBD_34	1436.09	75.58	75.14	206Pb/238U	33	1.54	3.53839	0.41727	0.24954	0.01461	1535.84	95.57	91.28	1436.09	75.58	75.14	1676.02	229.48	213.13
P1462_009_Zrn_A_1_MBD_36	1437.22	65.89	63.82	207Pb/235Uc	55	1.33	3.11831	0.26294	0.25658	0.01341	1437.22	65.89	63.82	1472.33	68.97	68.60	1385.63	170.36	161.30
P1462_009_Zrn_A_1_MBD_21	1440.31	270.62	238.76	207Pb/235Uc	18	2.66	3.13088	1.03075	0.24782	0.05109	1440.31	270.62	238.76	1427.20	266.65	261.25	1459.73	585.75	490.56
P1462_009_Zrn_A_1_MBD_17	1441.37	125.22	117.95	207Pb/235Uc	39	1.30	3.13518	0.49457	0.26084	0.03117	1441.37	125.22	117.95	1494.13	160.35	158.38	1364.36	229.02	212.97
P1462_009_Zrn_A_1_MBD_82	1450.25	57.33	55.75	207Pb/235Uc	123	3.04	3.17152	0.23222	0.25455	0.01229	1450.25	57.33	55.75	1461.92	63.33	63.02	1433.20	135.43	129.63
P1462_009_Zrn_A_1_MBD_104	1451.80	65.50	63.45	207Pb/235Uc	33	0.86	3.17786	0.26519	0.24702	0.01547	1451.80	65.50	63.45	1423.09	80.22	79.72	1494.07	160.05	151.99
P1462_009_Zrn_A_1_MBD_103	1459.53	86.76	83.21	207Pb/235Uc	73	49.65	3.20983	0.35215	0.25010	0.02160	1459.53	86.76	83.21	1438.97	111.87	110.90	1489.59	185.73	174.97



**Table 2.** U–Pb age data from the Cretaceous Colombian back–arc basin (*continued*).

Analysis name	Preferred age (Ma)	Sample GPS–500																	
		2–sigma	2 +sigma	Age type	[U] (ppm)	U/Th	207Pb/235U Ratio	2 sigma	206Pb/238U Ratio	2 sigma	207Pb/235Uc age (Ma)	2–sigma	2 +sigma	206Pb/238U age (Ma)	2–sigma	2 +sigma	207Pb/206Pb age (Ma)	2–sigma	2 +sigma
P1462_009_Zrn_A_1_MBD_59	1463.00	44.15	43.21	207Pb/235Uc	197	0.79	3.22422	0.18171	0.25606	0.00993	1463.00	44.15	43.21	1469.67	51.07	50.87	1453.33	102.94	99.55
P1462_009_Zrn_A_1_MBD_91	1486.54	56.87	55.32	207Pb/235Uc	117	0.97	3.32329	0.23879	0.25709	0.01672	1486.54	56.87	55.32	1474.95	86.01	85.44	1503.11	135.01	129.23
P1462_009_Zrn_A_1_MBD_84	1487.19	48.04	46.93	207Pb/235Uc	187	1.72	3.32606	0.20229	0.25709	0.01292	1487.19	48.04	46.93	1474.96	66.43	66.09	1504.67	107.24	103.56
P1462_009_Zrn_A_1_MBD_100	1495.45	57.80	56.20	207Pb/235Uc	441	2.98	3.36138	0.24475	0.25653	0.01494	1495.45	57.80	56.20	1472.08	76.88	76.43	1528.73	131.88	126.35
P1462_009_Zrn_A_1_MBD_46	1500.52	82.73	79.49	207Pb/235Uc	143	1.77	3.38324	0.34993	0.25838	0.02527	1500.52	82.73	79.49	1481.52	130.11	128.81	1527.45	155.11	147.52
P1462_009_Zrn_A_1_MBD_38	1502.47	57.71	56.12	207Pb/235Uc	158	4.96	3.39167	0.24610	0.26111	0.01352	1502.47	57.71	56.12	1495.54	69.28	68.91	1512.26	126.93	121.81
P1462_009_Zrn_A_1_MBD_40	1512.29	60.89	59.12	207Pb/235Uc	62	1.48	3.43432	0.26197	0.26078	0.01723	1512.29	60.89	59.12	1493.81	88.41	87.81	1538.26	111.11	107.16
P1462_009_Zrn_A_1_MBD_105	1512.79	63.29	61.38	207Pb/235Uc	232	3.49	3.43653	0.27229	0.27090	0.01451	1512.79	63.29	61.38	1545.37	73.80	73.38	1467.48	149.05	142.05
P1462_009_Zrn_A_1_MBD_89	1519.82	54.80	53.36	207Pb/235Uc	101	4.84	3.46733	0.23786	0.26620	0.01351	1519.82	54.80	53.36	1521.46	68.97	68.60	1517.53	137.29	131.31
P1462_009_Zrn_A_1_MBD_20	1533.74	148.39	138.28	207Pb/235Uc	46	2.94	3.52902	0.63827	0.24863	0.03422	1533.74	148.39	138.28	1431.43	177.91	175.49	1677.83	379.68	336.89
P1462_009_Zrn_A_1_MBD_102	1535.64	88.40	84.71	207Pb/235Uc	41	1.12	3.53750	0.38655	0.27982	0.02892	1535.64	88.40	84.71	1590.48	146.49	144.84	1460.92	205.18	192.14
P1462_009_Zrn_A_1_MBD_87	1547.65	68.13	65.91	207Pb/235Uc	107	1.78	3.59146	0.30294	0.27350	0.01673	1547.65	68.13	65.91	1558.52	84.95	84.40	1532.83	149.58	142.50
P1462_009_Zrn_A_1_MBD_28	1554.69	46.89	45.83	207Pb/235Uc	118	4.60	3.62344	0.21106	0.26990	0.01365	1554.69	46.89	45.83	1540.30	69.47	69.10	1574.31	108.41	104.64
P1462_009_Zrn_A_1_MBD_12	1560.70	49.29	48.12	207Pb/235Uc	171	3.95	3.65086	0.22306	0.27962	0.01505	1560.70	49.29	48.12	1589.46	76.05	75.60	1521.99	125.52	120.50
P1462_009_Zrn_A_1_MBD_48	1565.30	167.94	155.11	207Pb/235Uc	38	14.56	3.67201	0.74164	0.25736	0.03364	1565.30	167.94	155.11	1476.34	173.62	171.32	1687.45	364.29	324.69
P1462_009_Zrn_A_1_MBD_7	1569.15	47.23	46.16	207Pb/235Uc	329	2.81	3.68973	0.21562	0.26345	0.01234	1569.15	47.23	46.16	1507.48	63.11	62.81	1653.12	98.72	95.57
P1462_009_Zrn_A_1_MBD_11	1569.70	73.50	70.93	207Pb/235Uc	161	2.47	3.69227	0.33357	0.27026	0.02453	1569.70	73.50	70.93	1542.13	125.07	123.87	1606.97	149.58	142.48
P1462_009_Zrn_A_1_MBD_4	1570.92	61.83	60.00	207Pb/235Uc	224	0.98	3.69792	0.28177	0.28296	0.01812	1570.92	61.83	60.00	1606.24	91.39	90.74	1523.78	131.18	125.71
P1462_009_Zrn_A_1_MBD_33	1572.78	40.36	39.58	207Pb/235Uc	117	3.18	3.70655	0.18524	0.27893	0.00900	1572.78	40.36	39.58	1585.96	45.44	45.28	1555.15	92.43	89.68
P1462_009_Zrn_A_1_MBD_60	1573.61	35.17	34.57	207Pb/235Uc	280	2.13	3.71039	0.16176	0.27912	0.00865	1573.61	35.17	34.57	1586.91	43.69	43.54	1555.82	84.20	81.91
P1462_009_Zrn_A_1_MBD_16	1574.73	50.63	49.40	207Pb/235Uc	105	1.48	3.71556	0.23224	0.28171	0.01372	1574.73	50.63	49.40	1599.97	69.19	68.82	1541.06	99.38	96.21
P1462_009_Zrn_A_1_MBD_3	1575.10	70.26	67.91	207Pb/235Uc	270	3.83	3.71728	0.32082	0.27399	0.02187	1575.10	70.26	67.91	1561.03	111.14	110.19	1593.98	158.90	150.91
P1462_009_Zrn_A_1_MBD_65	1582.36	72.38	69.89	207Pb/235Uc	146	8.64	3.75115	0.33273	0.27313	0.01810	1582.36	72.38	69.89	1556.69	91.97	91.32	1616.75	136.37	130.45
P1462_009_Zrn_A_1_MBD_71	1587.92	85.12	81.70	207Pb/235Uc	127	3.76	3.77725	0.39221	0.27221	0.02778	1587.92	85.12	81.70	1552.01	141.52	139.98	1635.94	143.94	137.35
P1462_009_Zrn_A_1_MBD_68	1588.74	172.17	158.71	207Pb/235Uc	10	2.43	3.78109	0.77727	0.28480	0.03432	1588.74	172.17	158.71	1615.50	173.37	171.07	1553.41	425.67	372.88
P1462_009_Zrn_A_1_MBD_19	1591.99	52.89	51.55	207Pb/235Uc	81	2.04	3.79641	0.24663	0.29008	0.01612	1591.99	52.89	51.55	1641.91	80.81	80.31	1526.50	108.27	104.52
P1462_009_Zrn_A_1_MBD_42	1595.28	56.79	55.24	207Pb/235Uc	136	3.50	3.81199	0.26540	0.28158	0.01983	1595.28	56.79	55.24	1599.30	100.14	99.37	1589.97	121.98	117.22
P1462_009_Zrn_A_1_MBD_15	1601.33	85.48	82.03	207Pb/235Uc	51	1.56	3.84074	0.39908	0.29732	0.02003	1601.33	85.48	82.03	1678.01	99.92	99.15	1501.85	201.64	189.01
P1462_009_Zrn_A_1_MBD_55	1613.87	65.65	63.59	207Pb/235Uc	65	2.97	3.90089	0.31179	0.28773	0.01755	1613.87	65.65	63.59	1630.17	88.14	87.54	1592.66	116.88	112.51
P1462_009_Zrn_A_1_MBD_78	1615.13	56.89	55.34	207Pb/235Uc	211	2.63	3.90698	0.27111	0.28159	0.01682	1615.13	56.89	55.34	1599.37	84.90	84.35	1635.73	109.26	105.42
P1462_009_Zrn_A_1_MBD_69	1615.75	142.50	140.95	206Pb/238U	41	3.74	3.76764	0.71512	0.28485	0.02825	1585.88	158.32	146.86	1615.75	142.50	140.95	1546.39	349.85	313.41
P1462_009_Zrn_A_1_MBD_6	1621.12	52.66	51.33	207Pb/235Uc	197	3.18	3.93604	0.25269	0.29275	0.01580	1621.12	52.66	51.33	1655.24	79.03	78.55	1577.11	106.30	102.67
P1462_009_Zrn_A_1_MBD_10	1623.10	58.85	57.19	207Pb/235Uc	198	2.12	3.94565	0.28251	0.29469	0.02098	1623.10	58.85	57.19	1664.93	104.86	104.02	1569.28	110.09	106.20
P1462_009_Zrn_A_1_MBD_76	1624.54	101.64	96.80	207Pb/235Uc	23	1.77	3.95267	0.48358	0.29308	0.02411	1624.54	101.64	96.80	1656.88	120.78	119.66	1582.89	233.68	216.82
P1462_009_Zrn_A_1_MBD_25	1629.38	65.51	63.46	207Pb/235Uc	156	2.37	3.97636	0.31594	0.28455	0.01783	1629.38	65.51	63.46	1614.25	89.80	89.18	1648.98	139.77	133.54
P1462_009_Zrn_A_1_MBD_61	1631.66	38.03	37.33	207Pb/235Uc	160	0.87	3.98750	0.18508	0.28558	0.01020	1631.66	38.03	37.33	1619.40	51.27	51.07	1647.49	91.47	88.76
P1462_009_Zrn_A_1_MBD_77	1646.06	52.48	51.16	207Pb/235Uc	108	2.01	4.05876	0.25812	0.29609	0.01301	1646.06	52.48	51.16	1671.90	64.88	64.55	1613.22	117.89	113.43
P1462_009_Zrn_A_1_MBD_29	1649.77	87.81	84.17	207Pb/235Uc	43	3.50	4.07729	0.42974	0.30366	0.02120	1649.77	87.81	84.17	1709.42	105.26	104.41	1574.61	188.30	177.20
P1462_009_Zrn_A_1_MBD_66	1652.35	136.85	128.21	207Pb/235Uc	25	2.86	4.09017	0.66345	0.27793	0.03421	1652.35	136.85	128.21	1580.93	173.76	171.45	1744.39	249.59	230.31
P1462_009_Zrn_A_1_MBD_73	1660.71	61.86	60.03	207Pb/235Uc	155	2.71	4.13226	0.30797	0.28050	0.01598	1660.71	61.86	60.03	1593.89	80.69	80.19	1746.27	119.98	115.34
P1462_009_Zrn_A_1_MBD_54	1664.77	68.24	66.02	207Pb/235Uc	150	4.45	4.15283	0.34057	0.29874	0.02183	1664.77	68.24	66.02	1685.07	108.80	107.89	1639.26	134.74	128.94
P1462_009_Zrn_A_1_MBD_26	1684.71	71.89	69.43	207Pb/235Uc	128	1.16	4.25504	0.36556	0.30849	0.02377	1684.71	71.89	69.43	1733.26	117.64	116.58	1624.79	98.29	95.17

**Table 2.** U–Pb age data from the Cretaceous Colombian back–arc basin (*continued*).

Sample GPS–500																			
Analysis name	Preferred age (Ma)	2–sigma	2+sigma	Age type	[U] (ppm)	U/Th	207Pb/235U Ratio	2 sigma	206Pb/238U Ratio	2 sigma	207Pb/235Uc age (Ma)	2–sigma	2+sigma	206Pb/238U age (Ma)	2–sigma	2+sigma	207Pb/206Pb age (Ma)	2–sigma	2+sigma
P1462_009_Zrn_A_1_MBD_2	1699.43	50.88	49.64	207Pb/235Uc	374	1.42	4.33178	0.26388	0.30291	0.01717	1699.43	50.88	49.64	1705.72	85.23	84.66	1691.68	111.98	107.94
P1462_009_Zrn_A_1_MBD_57	1707.91	63.28	61.36	207Pb/235Uc	59	2.23	4.37650	0.32989	0.30028	0.01948	1707.91	63.28	61.36	1692.71	96.93	96.20	1726.61	113.02	108.89
P1462_009_Zrn_A_1_MBD_30	1721.00	70.06	67.72	207Pb/235Uc	351	2.50	4.44627	0.36936	0.29688	0.01597	1721.00	70.06	67.72	1675.82	79.60	79.11	1776.42	141.15	134.76
P1462_009_Zrn_A_1_MBD_32	1743.54	53.98	52.59	207Pb/235Uc	128	2.33	4.56849	0.29215	0.31865	0.01849	1743.54	53.98	52.59	1783.16	90.73	90.09	1696.35	88.03	85.51
P1462_009_Zrn_A_1_MBD_1	1744.19	62.60	60.73	207Pb/235Uc	124	1.58	4.57206	0.33829	0.31318	0.03092	1744.19	62.60	60.73	1756.36	152.68	150.89	1729.63	180.34	170.06
P1462_009_Zrn_A_1_MBD_81	1746.32	70.49	68.12	207Pb/235Uc	207	2.87	4.58377	0.38097	0.30621	0.02053	1746.32	70.49	68.12	1722.01	101.74	100.94	1775.55	157.57	149.65
P1462_009_Zrn_A_1_MBD_64	1756.13	56.17	54.66	207Pb/235Uc	84	0.84	4.63798	0.30760	0.29512	0.01282	1756.13	56.17	54.66	1667.06	63.96	63.64	1863.83	116.05	111.68
P1462_009_Zrn_A_1_MBD_52	1760.64	142.88	133.48	207Pb/235Uc	21	2.47	4.66307	0.76947	0.29107	0.05431	1760.64	142.88	133.48	1646.90	274.07	268.36	1898.40	273.70	250.52
P1462_009_Zrn_A_1_MBD_22	1765.23	64.79	62.78	207Pb/235Uc	70	2.09	4.68875	0.35725	0.31583	0.01830	1765.23	64.79	62.78	1769.32	89.94	89.32	1760.40	128.37	123.07
P1462_009_Zrn_A_1_MBD_63	1777.91	43.03	42.13	207Pb/235Uc	210	2.02	4.76019	0.24151	0.31367	0.01066	1777.91	43.03	42.13	1758.73	52.41	52.20	1800.49	93.26	90.42
P1462_009_Zrn_A_1_MBD_80	1778.77	84.51	81.14	207Pb/235Uc	81	1.92	4.76509	0.47000	0.32269	0.02044	1778.77	84.51	81.14	1802.86	100.03	99.26	1750.62	182.51	171.98
P1462_009_Zrn_A_1_MBD_95	1790.35	105.54	100.33	207Pb/235Uc	98	1.55	4.83122	0.59063	0.32075	0.03205	1790.35	105.54	100.33	1793.38	157.37	155.47	1786.82	185.62	174.72
P1462_009_Zrn_A_1_MBD_92	1795.40	69.48	67.18	207Pb/235Uc	83	2.31	4.86030	0.39424	0.32968	0.01803	1795.40	69.48	67.18	1836.85	87.73	87.13	1747.59	145.06	138.33
P1462_009_Zrn_A_1_MBD_53	1838.61	148.90	138.72	207Pb/235Uc	19	1.36	5.11504	0.86465	0.31868	0.03680	1838.61	148.90	138.72	1783.27	181.18	178.67	1901.83	289.54	263.72
P1462_009_Zrn_A_1_MBD_47	1841.70	99.32	94.69	207Pb/235Uc	56	7.52	5.13370	0.58552	0.33344	0.03312	1841.70	99.32	94.69	1855.04	161.11	159.13	1826.66	201.34	188.56
P1462_009_Zrn_A_1_MBD_31	1890.58	39.78	39.01	207Pb/235Uc	587	1.87	5.43617	0.24969	0.33897	0.01543	1890.58	39.78	39.01	1881.72	74.50	74.07	1900.31	85.41	83.02
P1462_009_Zrn_A_1_MBD_35	1907.49	49.30	48.13	207Pb/235Uc	180	0.90	5.54425	0.31392	0.35817	0.01700	1907.49	49.30	48.13	1973.48	80.94	80.43	1836.45	89.16	86.56
P1462_009_Zrn_A_1_MBD_44	2048.71	135.54	134.13	206Pb/238U	96	1.45	5.81961	1.18915	0.37411	0.02874	1949.34	185.25	169.76	2048.71	135.54	134.13	1845.36	391.80	346.06
P1462_009_Zrn_A_1_MBD_67	2502.92	106.66	101.34	207Pb/235Uc	43	1.81	10.76348	1.20382	0.44383	0.04824	2502.92	106.66	101.34	2367.77	217.21	213.61	2614.47	135.60	129.48

  

Sample GPS–501																			
Analysis name	Preferred age (Ma)	2–sigma	2+sigma	Age type	[U] (ppm)	U/Th	207Pb/235U Ratio	2 sigma	206Pb/238U Ratio	2 sigma	207Pb/235Uc age (Ma)	2–sigma	2+sigma	206Pb/238U age (Ma)	2–sigma	2+sigma	207Pb/206Pb age (Ma)	2–sigma	2+sigma
P1462_010_Zrn_A_1_MBD_91	548.38	28.68	28.28	207Pb/235Uc	737	3.80	0.71613	0.04813	0.08710	0.00475	548.38	28.68	28.28	538.35	28.20	28.14	590.29	120.40	116.01
P1462_010_Zrn_A_1_MBD_85	860.45	49.46	49.27	206Pb/238U	98	1.31	1.43179	0.13141	0.14279	0.00875	902.30	55.62	54.14	860.45	49.46	49.27	1006.22	180.90	170.93
P1462_010_Zrn_A_1_MBD_46	862.42	57.41	57.16	206Pb/238U	146	1.36	1.41779	0.15593	0.14314	0.01016	896.44	66.57	64.45	862.42	57.41	57.16	981.28	234.09	217.67
P1462_010_Zrn_A_1_MBD_26	866.91	67.39	65.23	207Pb/235Uc	590	5.95	1.34849	0.15331	0.14129	0.01326	866.91	67.39	65.23	851.95	75.11	74.67	905.34	185.67	175.23
P1462_010_Zrn_A_1_MBD_12	873.07	57.32	57.07	206Pb/238U	94	2.63	1.39607	0.14931	0.14503	0.01016	887.27	64.28	62.31	873.07	57.32	57.07	922.85	218.57	204.23
P1462_010_Zrn_A_1_MBD_43	886.03	67.05	64.91	207Pb/235Uc	171	5.42	1.39313	0.15545	0.14181	0.01236	886.03	67.05	64.91	854.87	69.96	69.58	964.64	193.60	182.24
P1462_010_Zrn_A_1_MBD_58	901.64	61.10	60.81	206Pb/238U	163	1.81	1.38294	0.15461	0.15012	0.01088	881.69	66.97	64.84	901.64	61.10	60.81	831.94	225.99	210.78
P1462_010_Zrn_A_1_MBD_71	923.64	60.74	60.45	206Pb/238U	102	1.83	1.49257	0.15948	0.15405	0.01085	927.36	66.03	63.95	923.64	60.74	60.45	936.23	209.05	195.89
P1462_010_Zrn_A_1_MBD_95	926.72	51.10	50.90	206Pb/238U	38	3.53	1.53579	0.17003	0.15460	0.00913	944.82	69.25	66.97	926.72	51.10	50.90	987.23	222.66	207.75
P1462_010_Zrn_A_1_MBD_89	932.16	46.58	45.54	207Pb/235Uc	436	4.25	1.50437	0.11359	0.14991	0.00932	932.16	46.58	45.54	900.44	52.35	52.14	1007.93	132.14	126.74
P1462_010_Zrn_A_1_MBD_47	938.85	54.66	53.23	207Pb/235Uc	709	3.90	1.52092	0.13390	0.15627	0.01084	938.85	54.66	53.23	936.02	60.59	60.31	945.47	187.67	176.99
P1462_010_Zrn_A_1_MBD_16	1074.92	75.87	73.14	207Pb/235Uc	50	1.58	1.88244	0.21140	0.17818	0.01394	1074.92	75.87	73.14	1057.03	76.52	76.07	1111.38	223.39	208.29
P1462_010_Zrn_A_1_MBD_13	1122.08	77.88	75.00	207Pb/235Uc	180	2.35	2.01948	0.22720	0.19349	0.01616	1122.08	77.88	75.00	1140.27	87.58	86.99	1087.04	207.11	194.08
P1462_010_Zrn_A_1_MBD_18	1130.62	73.57	71.00	207Pb/235Uc	172	2.12	2.04497	0.21668	0.19075	0.01424	1130.62	73.57	71.00	1125.44	77.30	76.84	1140.58	200.26	188.02
P1462_010_Zrn_A_1_MBD_93	1131.30	68.92	66.66	207Pb/235Uc	199	3.40	2.04701	0.20335	0.18166	0.01512	1131.30	68.92	66.66	1076.03	82.73	82.20	1238.97	205.40	192.48
P1462_010_Zrn_A_1_MBD_87	1137.18	74.66	72.01	207Pb/235Uc	553	4.96	2.06471	0.22125	0.17284	0.01272	1137.18	74.66	72.01	1027.73	70.11	69.74	1352.50	188.90	177.86
P1462_010_Zrn_A_1_MBD_68	1166.99	64.85	62.84	207Pb/235Uc	365	1.82	2.15602	0.19838	0.19941	0.01326	1166.99	64.85	62.84	1172.14	71.48	71.08	1157.45	168.42	159.67
P1462_010_Zrn_A_1_MBD_75	1182.53	69.89	67.56	207Pb/235Uc	206	2.04	2.20470	0.21682	0.19697	0.01442	1182.53	69.89	67.56	1159.05	77.92	77.45	1225.76	178.43	168.60
P1462_010_Zrn_A_1_MBD_78	1188.31	67.59	65.41	207Pb/235Uc	131	2.05	2.22298	0.21100	0.20345	0.01633	1188.31	67.59	65.41	1193.85	87.76	87.17	1178.24	169.65	160.76

**Table 2.** U–Pb age data from the Cretaceous Colombian back–arc basin (*continued*).

Analysis name	Preferred age (Ma)	Sample GPS-501																	
		2 –sigma	2 +sigma	Age type	[U] (ppm)	U/Th	207Pb/235U Ratio	2 sigma	206Pb/238U Ratio	2 sigma	207Pb/235Uc age (Ma)	2 –sigma	2 +sigma	206Pb/238U age (Ma)	2 –sigma	2 +sigma	207Pb/206Pb age (Ma)	2 –sigma	2 +sigma
P1462_010_Zrn_A_1_MBD_28	1202.44	94.02	89.86	207Pb/235Uc	81	1.63	2.26816	0.29573	0.20462	0.01748	1202.44	94.02	89.86	1200.10	93.90	93.22	1206.66	230.19	214.11
P1462_010_Zrn_A_1_MBD_77	1204.73	71.64	69.20	207Pb/235Uc	217	2.60	2.27551	0.22707	0.21082	0.01460	1204.73	71.64	69.20	1233.18	77.99	77.52	1154.06	186.11	175.49
P1462_010_Zrn_A_1_MBD_108	1211.15	51.62	50.34	207Pb/235Uc	196	3.92	2.29630	0.16547	0.19317	0.01145	1211.15	51.62	50.34	1138.55	62.03	61.74	1342.98	124.52	119.63
P1462_010_Zrn_A_1_MBD_53	1215.26	83.05	79.78	207Pb/235Uc	142	2.69	2.30967	0.26523	0.20216	0.01744	1215.26	83.05	79.78	1186.90	93.84	93.16	1265.98	226.88	211.20
P1462_010_Zrn_A_1_MBD_20	1215.91	84.93	81.52	207Pb/235Uc	78	0.77	2.31180	0.27129	0.21022	0.01817	1215.91	84.93	81.52	1229.98	97.17	96.45	1191.04	218.26	203.76
P1462_010_Zrn_A_1_MBD_36	1222.16	89.22	88.61	206Pb/238U	140	2.92	2.30106	0.30124	0.20875	0.01667	1212.61	94.84	90.61	1222.16	89.22	88.61	1195.65	248.83	230.16
P1462_010_Zrn_A_1_MBD_23	1224.60	80.84	77.75	207Pb/235Uc	182	2.99	2.34026	0.26073	0.20612	0.01753	1224.60	80.84	77.75	1208.14	94.06	93.38	1253.72	209.94	196.45
P1462_010_Zrn_A_1_MBD_8	1229.56	79.95	76.92	207Pb/235Uc	78	1.55	2.35662	0.25917	0.20973	0.01661	1229.56	79.95	76.92	1227.41	88.80	88.19	1233.35	229.77	213.73
P1462_010_Zrn_A_1_MBD_15	1235.54	78.42	75.51	207Pb/235Uc	99	2.63	2.37645	0.25581	0.20641	0.01534	1235.54	78.42	75.51	1209.66	82.25	81.73	1280.99	205.09	192.18
P1462_010_Zrn_A_1_MBD_30	1239.10	81.98	78.80	207Pb/235Uc	181	1.59	2.38828	0.26812	0.20443	0.01510	1239.10	81.98	78.80	1199.09	81.09	80.58	1309.35	209.66	196.17
P1462_010_Zrn_A_1_MBD_62	1241.94	69.66	67.35	207Pb/235Uc	293	2.93	2.39779	0.22914	0.20988	0.01340	1241.94	69.66	67.35	1228.15	71.60	71.20	1265.93	179.47	169.51
P1462_010_Zrn_A_1_MBD_90	1250.96	54.00	52.60	207Pb/235Uc	186	2.60	2.42812	0.17990	0.21274	0.01217	1250.96	54.00	52.60	1243.41	64.87	64.55	1263.99	122.92	118.17
P1462_010_Zrn_A_1_MBD_2	1254.51	71.15	68.74	207Pb/235Uc	124	1.86	2.44010	0.23689	0.21086	0.01508	1254.51	71.15	68.74	1233.42	80.55	80.05	1290.88	176.77	167.09
P1462_010_Zrn_A_1_MBD_88	1259.78	58.69	57.05	207Pb/235Uc	217	2.32	2.45802	0.19703	0.20892	0.01236	1259.78	58.69	57.05	1223.04	66.06	65.72	1323.09	135.34	129.59
P1462_010_Zrn_A_1_MBD_86	1276.67	57.89	56.28	207Pb/235Uc	121	1.81	2.51603	0.19762	0.21142	0.01418	1276.67	57.89	56.28	1236.37	75.66	75.22	1345.19	139.95	133.80
P1462_010_Zrn_A_1_MBD_5	1277.70	74.53	71.89	207Pb/235Uc	100	2.03	2.51958	0.25364	0.21750	0.01684	1277.70	74.53	71.89	1268.65	89.46	88.85	1292.95	193.38	181.85
P1462_010_Zrn_A_1_MBD_4	1279.40	70.73	68.35	207Pb/235Uc	84	1.69	2.52550	0.24135	0.21280	0.01448	1279.40	70.73	68.35	1243.69	77.19	76.74	1339.90	176.15	166.51
P1462_010_Zrn_A_1_MBD_32	1287.04	77.48	74.63	207Pb/235Uc	318	2.34	2.55212	0.26593	0.21455	0.01594	1287.04	77.48	74.63	1253.03	84.89	84.33	1344.27	197.72	185.66
P1462_010_Zrn_A_1_MBD_25	1287.43	84.99	81.58	207Pb/235Uc	288	2.53	2.55346	0.29130	0.22292	0.02110	1287.43	84.99	81.58	1297.29	111.70	110.74	1271.01	198.96	186.79
P1462_010_Zrn_A_1_MBD_102	1289.97	68.35	66.13	207Pb/235Uc	176	1.91	2.56238	0.23582	0.21377	0.01446	1289.97	68.35	66.13	1248.87	77.01	76.56	1359.07	158.49	150.64
P1462_010_Zrn_A_1_MBD_105	1291.44	54.87	53.42	207Pb/235Uc	137	3.72	2.56752	0.19019	0.21281	0.01070	1291.44	54.87	53.42	1243.75	57.02	56.77	1371.62	129.89	124.57
P1462_010_Zrn_A_1_MBD_61	1295.20	76.76	73.96	207Pb/235Uc	206	2.38	2.58076	0.26564	0.23593	0.01536	1295.20	76.76	73.96	1365.53	80.37	79.88	1180.46	193.52	182.04
P1462_010_Zrn_A_1_MBD_3	1295.76	74.84	72.18	207Pb/235Uc	130	3.03	2.58276	0.25926	0.22469	0.01764	1295.76	74.84	72.18	1306.62	93.18	92.52	1277.82	169.74	160.80
P1462_010_Zrn_A_1_MBD_7	1298.90	69.01	66.75	207Pb/235Uc	179	2.36	2.59385	0.24016	0.21424	0.01474	1298.90	69.01	66.75	1251.37	78.51	78.04	1378.32	173.33	163.97
P1462_010_Zrn_A_1_MBD_41	1310.41	72.40	69.91	207Pb/235Uc	426	1.61	2.63482	0.25460	0.23351	0.01794	1310.41	72.40	69.91	1352.84	94.12	93.44	1241.64	187.53	176.69
P1462_010_Zrn_A_1_MBD_79	1312.80	79.98	76.95	207Pb/235Uc	100	2.22	2.64339	0.28142	0.21416	0.01451	1312.80	79.98	76.95	1250.95	77.27	76.81	1415.31	192.78	181.25
P1462_010_Zrn_A_1_MBD_101	1315.23	49.14	47.98	207Pb/235Uc	327	1.78	2.65212	0.17463	0.21098	0.01159	1315.23	49.14	47.98	1234.06	61.82	61.53	1450.11	104.85	101.34
P1462_010_Zrn_A_1_MBD_44	1317.07	71.67	69.23	207Pb/235Uc	235	2.71	2.65872	0.25376	0.23647	0.01639	1317.07	71.67	69.23	1368.31	85.72	85.16	1234.61	192.68	181.26
P1462_010_Zrn_A_1_MBD_27	1320.74	83.31	80.03	207Pb/235Uc	181	0.71	2.67198	0.29519	0.22842	0.01793	1320.74	83.31	80.03	1326.23	94.45	93.76	1311.84	202.41	189.80
P1462_010_Zrn_A_1_MBD_109	1321.64	59.79	58.08	207Pb/235Uc	125	2.16	2.67523	0.21327	0.22380	0.01413	1321.64	59.79	58.08	1301.91	74.67	74.24	1353.77	122.46	117.72
P1462_010_Zrn_A_1_MBD_60	1323.83	91.35	87.42	207Pb/235Uc	80	1.38	2.68317	0.32403	0.22437	0.01764	1323.83	91.35	87.42	1304.90	93.22	92.56	1354.60	204.33	191.47
P1462_010_Zrn_A_1_MBD_10	1331.20	85.77	82.29	207Pb/235Uc	362	1.24	2.70999	0.30685	0.20416	0.01817	1331.20	85.77	82.29	1197.61	97.62	96.88	1553.10	189.14	177.96
P1462_010_Zrn_A_1_MBD_57	1336.53	90.87	86.97	207Pb/235Uc	138	2.19	2.72951	0.32639	0.24406	0.02136	1336.53	90.87	86.97	1407.76	111.15	110.20	1224.18	196.88	184.99
P1462_010_Zrn_A_1_MBD_69	1337.30	74.27	71.65	207Pb/235Uc	124	2.00	2.73234	0.26808	0.23607	0.01752	1337.30	74.27	71.65	1366.22	91.71	91.06	1291.30	177.13	167.41
P1462_010_Zrn_A_1_MBD_80	1348.52	68.63	66.39	207Pb/235Uc	241	1.98	2.77382	0.25082	0.23090	0.01570	1348.52	68.63	66.39	1339.22	82.47	81.95	1363.30	147.64	140.80
P1462_010_Zrn_A_1_MBD_9	1349.05	69.38	67.08	207Pb/235Uc	220	2.51	2.77580	0.25363	0.22286	0.01593	1349.05	69.38	67.08	1296.97	84.23	83.69	1432.62	161.41	153.24
P1462_010_Zrn_A_1_MBD_50	1349.06	92.30	88.29	207Pb/235Uc	200	2.53	2.77585	0.33556	0.24508	0.02026	1349.06	92.30	88.29	1413.06	105.32	104.47	1248.99	230.45	214.30
P1462_010_Zrn_A_1_MBD_59	1349.20	85.79	82.31	207Pb/235Uc	142	0.73	2.77637	0.31242	0.23202	0.01731	1349.20	85.79	82.31	1345.07	90.88	90.25	1355.76	195.61	183.79
P1462_010_Zrn_A_1_MBD_98	1349.53	54.68	53.24	207Pb/235Uc	1537	8.07	2.77760	0.20071	0.21049	0.01472	1349.53	54.68	53.24	1231.43	78.63	78.16	1542.00	124.91	119.93
P1462_010_Zrn_A_1_MBD_100	1373.83	58.86	57.20	207Pb/235Uc	257	1.51	2.86907	0.22107	0.22446	0.01561	1373.83	58.86	57.20	1305.41	82.43	81.91	1481.83	145.60	138.90
P1462_010_Zrn_A_1_MBD_40	1377.33	76.82	74.02	207Pb/235Uc	220	2.57	2.88245	0.28825	0.24619	0.01959	1377.33	76.82	74.02	1418.82	101.72	100.92	1313.59	187.87	176.96
P1462_010_Zrn_A_1_MBD_54	1378.06	76.29	73.53	207Pb/235Uc	175	1.50	2.88524	0.28649	0.24253	0.01888	1378.06	76.29	73.53	1399.83	98.31	97.57	1344.50	184.82	174.23

**Table 2.** U–Pb age data from the Cretaceous Colombian back–arc basin (*continued*).

Analysis name	Preferred age (Ma)	Sample GPS–501																	
		2–sigma	2 +sigma	Age type	[U] (ppm)	U/Th	207Pb/235U Ratio	2 sigma	206Pb/238U Ratio	2 sigma	207Pb/235Uc age (Ma)	2–sigma	2 +sigma	206Pb/238U age (Ma)	2–sigma	2 +sigma	207Pb/206Pb age (Ma)	2–sigma	2 +sigma
P1462_010_Zrn_A_1_MBD_33	1383.00	69.96	67.63	207Pb/235Uc	146	3.11	2.90418	0.26442	0.25258	0.01593	1383.00	69.96	67.63	1451.75	82.25	81.72	1278.43	189.88	178.77
P1462_010_Zrn_A_1_MBD_42	1388.31	85.18	81.75	207Pb/235Uc	94	1.85	2.92465	0.32244	0.24349	0.02157	1388.31	85.18	81.75	1404.81	112.31	111.34	1363.04	186.65	175.85
P1462_010_Zrn_A_1_MBD_14	1396.77	75.95	73.21	207Pb/235Uc	166	2.28	2.95749	0.29053	0.23690	0.01838	1396.77	75.95	73.21	1370.55	96.17	95.46	1437.04	173.08	163.72
P1462_010_Zrn_A_1_MBD_51	1399.06	108.99	103.44	207Pb/235Uc	79	1.59	2.96643	0.41452	0.24800	0.02582	1399.06	108.99	103.44	1428.16	134.08	132.71	1354.98	248.68	229.88
P1462_010_Zrn_A_1_MBD_63	1402.68	66.94	64.80	207Pb/235Uc	263	1.51	2.98059	0.25813	0.24457	0.01523	1402.68	66.94	64.80	1410.44	79.11	78.62	1390.91	148.84	141.88
P1462_010_Zrn_A_1_MBD_99	1408.82	61.75	59.92	207Pb/235Uc	48	0.83	3.00473	0.23987	0.23901	0.01392	1408.82	61.75	59.92	1381.56	72.61	72.20	1450.29	146.49	139.73
P1462_010_Zrn_A_1_MBD_19	1419.00	89.31	85.55	207Pb/235Uc	89	1.58	3.04509	0.34809	0.23665	0.01898	1419.00	89.31	85.55	1369.25	99.30	98.54	1494.48	206.81	193.55
P1462_010_Zrn_A_1_MBD_39	1422.78	90.38	86.53	207Pb/235Uc	73	2.45	3.06016	0.35348	0.24989	0.02185	1422.78	90.38	86.53	1437.93	113.17	112.19	1400.17	228.29	212.31
P1462_010_Zrn_A_1_MBD_56	1431.61	84.77	81.37	207Pb/235Uc	396	0.93	3.09561	0.33489	0.24792	0.02204	1431.61	84.77	81.37	1427.73	114.37	113.37	1437.37	190.03	178.81
P1462_010_Zrn_A_1_MBD_72	1441.91	76.43	73.66	207Pb/235Uc	373	4.25	3.13740	0.30564	0.25429	0.01905	1441.91	76.43	73.66	1460.57	98.27	97.53	1414.50	165.37	156.82
P1462_010_Zrn_A_1_MBD_70	1441.97	83.95	80.62	207Pb/235Uc	83	1.13	3.13765	0.33513	0.24642	0.01947	1441.97	83.95	80.62	1419.99	101.12	100.33	1474.55	199.60	187.23
P1462_010_Zrn_A_1_MBD_104	1451.10	61.89	60.06	207Pb/235Uc	145	2.26	3.17501	0.25065	0.24049	0.01424	1451.10	61.89	60.06	1389.22	74.24	73.81	1542.94	125.54	120.52
P1462_010_Zrn_A_1_MBD_92	1461.39	55.72	54.23	207Pb/235Uc	224	2.21	3.21755	0.22830	0.25117	0.01361	1461.39	55.72	54.23	1444.51	70.33	69.95	1486.02	115.78	111.50
P1462_010_Zrn_A_1_MBD_107	1483.23	51.95	50.66	207Pb/235Uc	270	1.89	3.30925	0.21769	0.24840	0.01362	1483.23	51.95	50.66	1430.23	70.51	70.13	1559.87	100.54	97.29
P1462_010_Zrn_A_1_MBD_37	1498.59	77.13	74.31	207Pb/235Uc	342	2.38	3.37492	0.32611	0.26514	0.01887	1498.59	77.13	74.31	1516.08	96.52	95.80	1473.95	183.88	173.33
P1462_010_Zrn_A_1_MBD_82	1520.88	84.56	81.18	207Pb/235Uc	54	2.62	3.47201	0.36479	0.26391	0.01881	1520.88	84.56	81.18	1509.83	96.27	95.56	1536.29	190.86	179.49
P1462_010_Zrn_A_1_MBD_29	1540.43	84.69	81.29	207Pb/235Uc	141	1.74	3.55895	0.37241	0.27924	0.02374	1540.43	84.69	81.29	1587.52	120.21	119.10	1476.38	204.61	191.63
P1462_010_Zrn_A_1_MBD_52	1547.45	77.71	74.85	207Pb/235Uc	375	3.06	3.59057	0.34471	0.28625	0.02161	1547.45	77.71	74.85	1622.74	108.76	107.85	1446.09	176.70	166.95
P1462_010_Zrn_A_1_MBD_17	1554.30	85.86	82.38	207Pb/235Uc	321	3.54	3.62166	0.38267	0.27294	0.02563	1554.30	85.86	82.38	1555.71	130.45	129.15	1552.39	201.84	189.16
P1462_010_Zrn_A_1_MBD_55	1562.95	73.65	71.07	207Pb/235Uc	403	3.86	3.66120	0.33205	0.29340	0.02090	1562.95	73.65	71.07	1658.49	104.57	103.72	1436.18	177.34	167.53
P1462_010_Zrn_A_1_MBD_48	1592.49	109.68	108.76	206Pb/238U	109	1.50	3.36740	0.50523	0.28022	0.02169	1496.85	121.00	114.19	1592.49	109.68	108.76	1363.91	311.11	282.21
P1462_010_Zrn_A_1_MBD_84	1618.15	67.26	65.10	207Pb/235Uc	144	0.93	3.92161	0.32066	0.29285	0.01882	1618.15	67.26	65.10	1655.77	94.19	93.51	1569.56	133.93	128.22
P1462_010_Zrn_A_1_MBD_73	1652.90	84.19	80.83	207Pb/235Uc	122	1.99	4.09294	0.41362	0.28730	0.01993	1652.90	84.19	80.83	1628.04	100.20	99.42	1684.64	176.63	166.78
P1462_010_Zrn_A_1_MBD_65	1657.45	84.65	81.26	207Pb/235Uc	80	1.60	4.11580	0.41773	0.30172	0.02392	1657.45	84.65	81.26	1699.82	119.03	117.94	1604.16	171.12	161.89
P1462_010_Zrn_A_1_MBD_66	1674.29	77.55	74.70	207Pb/235Uc	200	1.88	4.20139	0.38979	0.31163	0.02188	1674.29	77.55	74.70	1748.73	108.00	107.11	1582.21	154.79	147.21
P1462_010_Zrn_A_1_MBD_81	1675.31	76.40	73.63	207Pb/235Uc	164	1.59	4.20660	0.38447	0.29025	0.02082	1675.31	76.40	73.63	1642.80	104.43	103.59	1716.27	156.05	148.30
P1462_010_Zrn_A_1_MBD_1	1680.55	78.94	75.99	207Pb/235Uc	116	1.31	4.23353	0.39908	0.29690	0.02102	1680.55	78.94	75.99	1675.90	104.93	104.08	1686.35	162.96	154.53
P1462_010_Zrn_A_1_MBD_103	1708.38	50.19	48.98	207Pb/235Uc	351	1.87	4.37895	0.26261	0.29461	0.01490	1708.38	50.19	48.98	1664.51	74.40	73.97	1762.59	92.53	89.74
P1462_010_Zrn_A_1_MBD_64	1726.57	75.95	73.21	207Pb/235Uc	273	4.16	4.47621	0.40206	0.31166	0.02033	1726.57	75.95	73.21	1748.89	100.30	99.53	1699.62	147.78	140.82
P1462_010_Zrn_A_1_MBD_94	1742.94	66.98	64.85	207Pb/235Uc	197	1.53	4.56519	0.36115	0.30709	0.01859	1742.94	66.98	64.85	1726.36	92.03	91.37	1762.88	122.22	117.41
P1462_010_Zrn_A_1_MBD_21	1744.36	90.20	86.36	207Pb/235Uc	289	1.27	4.57297	0.48421	0.30411	0.02736	1744.36	90.20	86.36	1711.67	135.94	134.52	1783.76	177.92	167.88
P1462_010_Zrn_A_1_MBD_31	1786.39	72.13	69.66	207Pb/235Uc	358	1.87	4.80852	0.40538	0.32718	0.01996	1786.39	72.13	69.66	1824.72	97.32	96.59	1741.91	179.76	169.54
P1462_010_Zrn_A_1_MBD_11	1820.84	87.73	84.10	207Pb/235Uc	178	2.77	5.00896	0.50813	0.31365	0.02464	1820.84	87.73	84.10	1758.65	121.48	120.34	1892.74	162.70	154.23
P1462_010_Zrn_A_1_MBD_6	1856.10	83.46	80.17	207Pb/235Uc	176	1.45	5.22129	0.50101	0.33300	0.02494	1856.10	83.46	80.17	1852.90	121.17	120.05	1859.68	157.34	149.41
P1462_010_Zrn_A_1_MBD_22	1876.87	88.24	84.57	207Pb/235Uc	173	1.02	5.34985	0.54002	0.33238	0.02688	1876.87	88.24	84.57	1849.92	130.73	129.42	1906.82	168.42	159.35
P1462_010_Zrn_A_1_MBD_49	1882.85	76.34	73.57	207Pb/235Uc	542	1.95	5.38739	0.47129	0.35847	0.02344	1882.85	76.34	73.57	1974.92	111.73	110.77	1782.75	172.52	163.07
P1462_010_Zrn_A_1_MBD_45	1904.15	90.43	86.57	207Pb/235Uc	126	1.82	5.52277	0.56817	0.36010	0.02719	1904.15	90.43	86.57	1982.64	129.51	128.22	1819.66	192.79	181.04
P1462_010_Zrn_A_1_MBD_96	1908.07	56.78	55.24	207Pb/235Uc	733	1.59	5.54804	0.36111	0.34869	0.01824	1908.07	56.78	55.24	1928.33	87.50	86.91	1886.12	92.82	90.00
P1462_010_Zrn_A_1_MBD_97	1912.36	59.15	57.48	207Pb/235Uc	301	0.80	5.57576	0.37754	0.34272	0.02073	1912.36	59.15	57.48	1899.72	99.92	99.16	1926.10	97.85	94.72
P1462_010_Zrn_A_1_MBD_0	1945.64	82.84	79.59	207Pb/235Uc	346	2.24	5.79483	0.54317	0.33512	0.02564	1945.64	82.84	79.59	1863.13	124.38	123.19	2034.64	143.86	137.15
P1462_010_Zrn_A_1_MBD_106	1957.87	51.47	50.20	207Pb/235Uc	245	0.88	5.87718	0.34421	0.34313	0.01741	1957.87	51.47	50.20	1901.69	83.84	83.29	2017.80	87.80	85.25
P1462_010_Zrn_A_1_MBD_38	2018.25	86.66	83.12	207Pb/235Uc	190	1.58	6.29851	0.60982	0.38216	0.03019	2018.25	86.66	83.12	2086.36	141.57	140.03	1949.28	175.15	165.34

**Table 2.** U–Pb age data from the Cretaceous Colombian back–arc basin (*continued*).

Analysis name	Preferred age (Ma)	Sample GPS–502																	
		2–sigma	2 +sigma	Age type	[U] (ppm)	U/Th	207Pb/235U Ratio	2 sigma	206Pb/238U Ratio	2 sigma	207Pb/235Uc age (Ma)	2–sigma	2 +sigma	206Pb/238U age (Ma)	2–sigma	2 +sigma	207Pb/206Pb age (Ma)	2–sigma	2 +sigma
P1462_011_Zrn_A_1_MBD_97	434.59	26.19	26.14	206Pb/238U	106	1.07	0.50975	0.06343	0.06974	0.00434	418.28	43.11	42.22	434.59	26.19	26.14	329.27	288.01	264.44
P1462_011_Zrn_A_1_MBD_43	489.62	23.12	23.08	206Pb/238U	327	1.17	0.63454	0.05514	0.07891	0.00387	498.92	34.54	33.96	489.62	23.12	23.08	541.81	182.75	172.84
P1462_011_Zrn_A_1_MBD_17	492.91	19.31	19.28	206Pb/238U	132	1.35	0.68895	0.06720	0.07946	0.00323	532.17	40.81	40.00	492.91	19.31	19.28	704.25	205.95	193.33
P1462_011_Zrn_A_1_MBD_49	553.98	28.81	28.74	206Pb/238U	166	1.36	0.74138	0.05805	0.08974	0.00486	563.21	34.13	33.57	553.98	28.81	28.74	600.68	169.64	161.04
P1462_011_Zrn_A_1_MBD_78	850.85	43.48	43.34	206Pb/238U	52	3.91	1.27583	0.14307	0.14109	0.00768	835.00	64.86	62.85	850.85	43.48	43.34	793.06	241.74	224.45
P1462_011_Zrn_A_1_MBD_56	889.88	40.19	40.06	206Pb/238U	144	2.06	1.41329	0.10798	0.14802	0.00715	894.55	45.95	44.93	889.88	40.19	40.06	906.09	145.50	139.01
P1462_011_Zrn_A_1_MBD_39	918.38	58.45	58.19	206Pb/238U	43	2.51	1.55307	0.16981	0.15311	0.01043	951.72	68.68	66.44	918.38	58.45	58.19	1029.62	249.07	230.52
P1462_011_Zrn_A_1_MBD_106	920.22	47.18	47.01	206Pb/238U	79	1.83	1.46901	0.12524	0.15344	0.00843	917.72	52.17	50.86	920.22	47.18	47.01	911.71	164.57	156.32
P1462_011_Zrn_A_1_MBD_102	920.39	54.00	53.78	206Pb/238U	65	2.18	1.47321	0.13464	0.15347	0.00964	919.44	56.04	54.54	920.39	54.00	53.78	917.17	182.20	172.13
P1462_011_Zrn_A_1_MBD_19	921.63	39.69	38.93	207Pb/235Uc	168	1.21	1.47854	0.09595	0.16136	0.00805	921.63	39.69	38.93	964.34	44.76	44.61	820.77	133.81	128.33
P1462_011_Zrn_A_1_MBD_7	942.52	54.27	54.04	206Pb/238U	60	1.69	1.57716	0.22100	0.15744	0.00972	961.25	88.99	85.26	942.52	54.27	54.04	1004.35	294.54	268.97
P1462_011_Zrn_A_1_MBD_70	953.63	109.76	104.13	207Pb/235Uc	32	2.14	1.55789	0.26915	0.17323	0.02587	953.63	109.76	104.13	1029.86	142.96	141.39	781.64	372.89	333.30
P1462_011_Zrn_A_1_MBD_98	954.09	98.15	97.41	206Pb/238U	27	1.98	1.39414	0.29470	0.15952	0.01759	886.45	129.00	121.29	954.09	98.15	97.41	721.23	434.20	381.60
P1462_011_Zrn_A_1_MBD_92	960.95	38.44	38.33	206Pb/238U	429	3.14	1.63855	0.10268	0.16075	0.00691	985.15	39.90	39.14	960.95	38.44	38.33	1039.48	115.31	111.17
P1462_011_Zrn_A_1_MBD_55	966.65	53.78	53.56	206Pb/238U	155	15.23	1.63205	0.18500	0.16178	0.00967	982.65	72.65	70.14	966.65	53.78	53.56	1018.57	220.69	206.01
P1462_011_Zrn_A_1_MBD_83	974.55	41.08	40.95	206Pb/238U	137	5.41	1.65468	0.11459	0.16320	0.00740	991.34	44.31	43.36	974.55	41.08	40.95	1028.70	138.09	132.19
P1462_011_Zrn_A_1_MBD_60	983.66	59.31	59.04	206Pb/238U	87	1.25	1.55012	0.14907	0.16485	0.01069	950.54	60.24	58.51	983.66	59.31	59.04	874.64	174.20	165.00
P1462_011_Zrn_A_1_MBD_3	985.71	63.04	62.74	206Pb/238U	32	1.00	1.60001	0.20116	0.16522	0.01137	970.22	80.12	77.08	985.71	63.04	62.74	935.29	264.43	243.73
P1462_011_Zrn_A_1_MBD_93	990.50	33.64	33.09	207Pb/235Uc	394	3.95	1.65248	0.08716	0.16361	0.00673	990.50	33.64	33.09	976.81	37.35	37.25	1020.95	95.26	92.42
P1462_011_Zrn_A_1_MBD_9	994.94	40.36	39.58	207Pb/235Uc	183	2.70	1.66409	0.10486	0.16809	0.00852	994.94	40.36	39.58	1001.59	47.11	46.94	980.31	132.20	126.80
P1462_011_Zrn_A_1_MBD_86	995.77	110.50	104.79	207Pb/235Uc	284	1.36	1.66628	0.28240	0.14178	0.02003	995.77	110.50	104.79	854.71	113.61	112.62	1320.97	303.98	276.39
P1462_011_Zrn_A_1_MBD_16	998.07	40.87	40.75	206Pb/238U	102	2.80	1.75005	0.12297	0.16745	0.00739	1027.18	45.92	44.90	998.07	40.87	40.75	1089.72	146.05	139.45
P1462_011_Zrn_A_1_MBD_15	1002.23	34.12	33.56	207Pb/235Uc	86	1.98	1.68328	0.08941	0.17002	0.00734	1002.23	34.12	33.56	1012.21	40.49	40.36	980.45	119.93	115.47
P1462_011_Zrn_A_1_MBD_20	1002.63	46.56	45.52	207Pb/235Uc	534	30.52	1.68435	0.12170	0.16540	0.00913	1002.63	46.56	45.52	986.72	50.63	50.43	1037.56	128.84	123.69
P1462_011_Zrn_A_1_MBD_66	1006.48	65.69	65.36	206Pb/238U	33	2.50	1.52607	0.21005	0.16898	0.01188	940.92	86.24	82.72	1006.48	65.69	65.36	790.45	283.73	260.21
P1462_011_Zrn_A_1_MBD_35	1018.17	49.22	48.05	207Pb/235Uc	621	2.47	1.72575	0.13053	0.16403	0.01006	1018.17	49.22	48.05	979.11	55.83	55.59	1103.13	146.07	139.46
P1462_011_Zrn_A_1_MBD_0	1018.92	36.77	36.66	206Pb/238U	139	4.20	1.65656	0.12106	0.17124	0.00667	992.06	46.81	45.75	1018.92	36.77	36.66	933.14	158.28	150.62
P1462_011_Zrn_A_1_MBD_13	1023.01	29.88	29.81	206Pb/238U	217	4.80	1.71943	0.08246	0.17198	0.00543	1015.81	31.02	30.56	1023.01	29.88	29.81	1000.32	102.03	98.78
P1462_011_Zrn_A_1_MBD_90	1023.25	35.62	35.01	207Pb/235Uc	329	3.04	1.73943	0.09527	0.16699	0.00723	1023.25	35.62	35.01	995.50	39.99	39.86	1083.10	99.93	96.80
P1462_011_Zrn_A_1_MBD_65	1023.65	84.07	83.53	206Pb/238U	34	9.40	1.84727	0.28828	0.17210	0.01524	1062.46	105.50	100.29	1023.65	84.07	83.53	1143.05	303.00	275.82
P1462_011_Zrn_A_1_MBD_11	1025.66	48.40	47.27	207Pb/235Uc	151	2.70	1.74594	0.12935	0.17560	0.01151	1025.66	48.40	47.27	1042.87	63.29	62.98	989.12	146.47	139.87
P1462_011_Zrn_A_1_MBD_1	1027.20	61.70	61.41	206Pb/238U	40	1.39	1.61857	0.21456	0.17274	0.01120	977.44	84.95	81.54	1027.20	61.70	61.41	867.23	278.46	255.68
P1462_011_Zrn_A_1_MBD_109	1037.06	41.02	40.21	207Pb/235Uc	166	9.82	1.77694	0.11106	0.16858	0.00852	1037.06	41.02	40.21	1004.26	47.08	46.91	1106.87	112.79	108.81
P1462_011_Zrn_A_1_MBD_79	1052.52	41.13	40.31	207Pb/235Uc	100	3.61	1.81955	0.11306	0.16958	0.00737	1052.52	41.13	40.31	1009.80	40.69	40.56	1142.27	123.76	118.98
P1462_011_Zrn_A_1_MBD_33	1057.16	54.88	53.43	207Pb/235Uc	128	1.95	1.83246	0.15103	0.17449	0.00993	1057.16	54.88	53.43	1036.78	54.65	54.41	1099.50	168.91	160.14
P1462_011_Zrn_A_1_MBD_85	1072.70	36.39	35.75	207Pb/235Uc	365	2.40	1.87614	0.10215	0.17737	0.00749	1072.70	36.39	35.75	1052.60	41.09	40.96	1113.80	101.73	98.47
P1462_011_Zrn_A_1_MBD_80	1110.78	84.13	80.78	207Pb/235Uc	15	2.67	1.98604	0.24236	0.18428	0.01895	1110.78	84.13	80.78	1090.32	103.56	102.74	1151.04	195.93	184.20
P1462_011_Zrn_A_1_MBD_37	1112.92	57.32	57.06	206Pb/238U	78	5.91	1.96946	0.17752	0.18844	0.01054	1105.12	61.63	59.81	1112.92	57.32	57.06	1089.81	164.59	156.25
P1462_011_Zrn_A_1_MBD_76	1118.58	77.09	74.27	207Pb/235Uc	33	3.74	2.00908	0.22419	0.19398	0.01764	1118.58	77.09	74.27	1142.88	95.62	94.91	1071.67	257.22	237.44
P1462_011_Zrn_A_1_MBD_100	1125.06	59.14	57.47	207Pb/235Uc	100	1.99	2.02833	0.17384	0.19432	0.01174	1125.06	59.14	57.47	1144.75	63.53	63.22	1087.24	151.40	144.32
P1462_011_Zrn_A_1_MBD_27	1133.38	95.71	95.00	206Pb/238U	48	2.36	1.82000	0.29697	0.19222	0.01764	1052.68	109.85	104.21	1133.38	95.71	95.00	888.88	375.88	335.46
P1462_011_Zrn_A_1_MBD_41	1145.02	82.65	82.13	206Pb/238U	30	1.46	2.13258	0.27426	0.19437	0.01526	1159.42	90.90	87.01	1145.02	82.65	82.13	1186.45	235.01	218.29



**Table 2.** U–Pb age data from the Cretaceous Colombian back–arc basin (*continued*).

Analysis name	Preferred age (Ma)	Sample GPS–502																	
		2 –sigma	2 +sigma	Age type	[U] (ppm)	U/Th	207Pb/235U Ratio	2 sigma	206Pb/238U Ratio	2 sigma	207Pb/235Uc age (Ma)	2 –sigma	2 +sigma	206Pb/238U age (Ma)	2 –sigma	2 +sigma	207Pb/206Pb age (Ma)	2 –sigma	2 +sigma
P1462_011_Zrn_A_1_MBD_69	1153.34	66.80	64.67	207Pb/235Uc	67	6.54	2.11387	0.20151	0.18530	0.01324	1153.34	66.80	64.67	1095.86	72.18	71.78	1263.03	156.30	148.70
P1462_011_Zrn_A_1_MBD_104	1158.87	55.10	54.87	206Pb/238U	101	2.18	2.11940	0.17218	0.19694	0.01021	1155.14	56.84	55.29	1158.87	55.10	54.87	1148.15	155.54	148.05
P1462_011_Zrn_A_1_MBD_34	1186.91	38.34	37.63	207Pb/235Uc	493	4.73	2.21853	0.12040	0.19392	0.01051	1186.91	38.34	37.63	1142.56	56.89	56.64	1268.62	108.39	104.68
P1462_011_Zrn_A_1_MBD_87	1195.86	52.68	52.47	206Pb/238U	96	2.30	2.43934	0.19495	0.20383	0.00982	1254.28	58.39	56.75	1195.86	52.68	52.47	1355.99	148.58	141.66
P1462_011_Zrn_A_1_MBD_38	1199.00	33.29	32.75	207Pb/235Uc	135	3.22	2.25708	0.10590	0.20157	0.00808	1199.00	33.29	32.75	1183.74	43.40	43.25	1226.58	87.17	84.75
P1462_011_Zrn_A_1_MBD_72	1199.60	54.70	53.27	207Pb/235Uc	112	4.45	2.25901	0.17323	0.20491	0.01276	1199.60	54.70	53.27	1201.64	68.47	68.11	1195.93	149.71	142.74
P1462_011_Zrn_A_1_MBD_51	1201.97	48.89	47.74	207Pb/235Uc	124	1.22	2.26662	0.15540	0.19890	0.01138	1201.97	48.89	47.74	1169.41	61.34	61.05	1260.95	107.44	103.80
P1462_011_Zrn_A_1_MBD_67	1208.72	45.98	45.82	206Pb/238U	135	2.16	2.26192	0.15995	0.20623	0.00859	1200.50	50.41	49.19	1208.72	45.98	45.82	1185.74	133.25	127.71
P1462_011_Zrn_A_1_MBD_74	1223.04	66.42	64.32	207Pb/235Uc	78	2.85	2.33514	0.21464	0.21821	0.01780	1223.04	66.42	64.32	1272.42	94.51	93.83	1136.97	119.48	115.01
P1462_011_Zrn_A_1_MBD_4	1251.46	52.18	50.87	207Pb/235Uc	108	1.18	2.42978	0.17400	0.21789	0.01112	1251.46	52.18	50.87	1270.73	59.01	58.74	1218.45	133.52	127.94
P1462_011_Zrn_A_1_MBD_61	1264.76	52.97	51.63	207Pb/235Uc	246	4.42	2.47502	0.17895	0.21827	0.01355	1264.76	52.97	51.63	1272.70	71.88	71.48	1251.28	137.66	131.73
P1462_011_Zrn_A_1_MBD_108	1273.43	54.32	54.10	206Pb/238U	231	1.66	2.52818	0.20838	0.21840	0.01025	1280.18	60.87	59.10	1273.43	54.32	54.10	1291.52	154.47	147.02
P1462_011_Zrn_A_1_MBD_89	1304.60	50.73	49.49	207Pb/235Uc	318	1.40	2.61406	0.17832	0.21997	0.01198	1304.60	50.73	49.49	1281.71	63.44	63.13	1342.44	107.32	103.66
P1462_011_Zrn_A_1_MBD_105	1322.84	55.14	53.68	207Pb/235Uc	191	1.86	2.67958	0.19712	0.21611	0.01196	1322.84	55.14	53.68	1261.29	63.58	63.27	1423.97	120.61	115.99
P1462_011_Zrn_A_1_MBD_57	1343.06	59.95	58.23	207Pb/235Uc	90	1.78	2.75358	0.21836	0.23367	0.01291	1343.06	59.95	58.23	1353.69	67.62	67.27	1326.15	153.20	145.86
P1462_011_Zrn_A_1_MBD_32	1375.41	77.01	74.20	207Pb/235Uc	65	1.25	2.87511	0.28840	0.24227	0.02025	1375.41	77.01	74.20	1398.50	105.51	104.65	1339.74	163.99	155.61
P1462_011_Zrn_A_1_MBD_36	1386.49	49.57	48.38	207Pb/235Uc	135	1.54	2.91761	0.18892	0.24092	0.01169	1386.49	49.57	48.38	1391.49	60.86	60.58	1378.80	120.30	115.71
P1462_011_Zrn_A_1_MBD_91	1417.50	48.24	47.12	207Pb/235Uc	136	1.05	3.03911	0.18963	0.23692	0.01065	1417.50	48.24	47.12	1370.66	55.64	55.40	1488.59	105.39	101.84
P1462_011_Zrn_A_1_MBD_73	1425.01	203.91	185.29	207Pb/235Uc	33	2.95	3.06911	0.77747	0.25219	0.05694	1425.01	203.91	185.29	1449.78	296.51	289.84	1388.21	511.91	437.95
P1462_011_Zrn_A_1_MBD_84	1446.91	37.48	36.80	207Pb/235Uc	124	2.91	3.15779	0.15207	0.24906	0.00931	1446.91	37.48	36.80	1433.61	48.14	47.96	1466.50	89.63	87.05
P1462_011_Zrn_A_1_MBD_81	1455.51	54.22	52.81	207Pb/235Uc	184	1.90	3.19316	0.22094	0.24283	0.01147	1455.51	54.22	52.81	1401.38	59.61	59.34	1535.44	127.40	122.23
P1462_011_Zrn_A_1_MBD_101	1464.18	65.21	63.18	207Pb/235Uc	112	2.05	3.22912	0.26728	0.24855	0.01507	1464.18	65.21	63.18	1430.98	78.06	77.60	1512.66	129.80	124.44
P1462_011_Zrn_A_1_MBD_22	1478.67	91.73	87.76	207Pb/235Uc	76	2.02	3.28992	0.37891	0.27158	0.02833	1478.67	91.73	87.76	1548.83	144.45	142.85	1379.39	170.99	161.88
P1462_011_Zrn_A_1_MBD_58	1481.13	55.34	53.88	207Pb/235Uc	257	0.90	3.30031	0.23123	0.25500	0.01659	1481.13	55.34	53.88	1464.20	85.51	84.94	1505.46	104.20	100.72
P1462_011_Zrn_A_1_MBD_50	1487.28	41.06	40.25	207Pb/235Uc	380	2.50	3.32645	0.17319	0.25093	0.01101	1487.28	41.06	40.25	1443.27	56.89	56.64	1550.61	77.52	75.58
P1462_011_Zrn_A_1_MBD_107	1493.46	49.70	48.51	207Pb/235Uc	85	1.13	3.35284	0.21048	0.25767	0.01259	1493.46	49.70	48.51	1477.93	64.72	64.40	1515.56	106.85	103.19
P1462_011_Zrn_A_1_MBD_31	1494.48	52.07	50.77	207Pb/235Uc	485	1.32	3.35722	0.22061	0.25706	0.01451	1494.48	52.07	50.77	1474.80	74.60	74.18	1522.50	105.83	102.24
P1462_011_Zrn_A_1_MBD_75	1499.20	71.57	69.13	207Pb/235Uc	71	4.09	3.37756	0.30317	0.25905	0.01846	1499.20	71.57	69.13	1484.97	94.86	94.16	1519.39	142.76	136.30
P1462_011_Zrn_A_1_MBD_42	1508.01	51.19	49.93	207Pb/235Uc	86	0.73	3.41567	0.21982	0.25218	0.01545	1508.01	51.19	49.93	1449.70	79.78	79.29	1590.89	135.69	129.82
P1462_011_Zrn_A_1_MBD_44	1527.95	52.07	50.77	207Pb/235Uc	297	2.13	3.50327	0.22800	0.25279	0.01064	1527.95	52.07	50.77	1452.87	54.89	54.65	1633.52	112.72	108.64
P1462_011_Zrn_A_1_MBD_18	1536.87	51.46	50.19	207Pb/235Uc	356	1.50	3.54300	0.22735	0.26680	0.01116	1536.87	51.46	50.19	1524.54	56.93	56.68	1553.87	123.21	118.37
P1462_011_Zrn_A_1_MBD_24	1538.55	84.46	81.09	207Pb/235Uc	195	1.45	3.55053	0.37075	0.25331	0.02617	1538.55	84.46	81.09	1455.53	135.30	133.89	1654.59	136.38	130.44
P1462_011_Zrn_A_1_MBD_48	1543.44	52.10	50.80	207Pb/235Uc	374	1.75	3.57250	0.23163	0.26015	0.01284	1543.44	52.10	50.80	1490.60	65.84	65.50	1616.58	122.35	117.55
P1462_011_Zrn_A_1_MBD_88	1546.73	49.40	48.23	207Pb/235Uc	287	1.47	3.58732	0.22051	0.27082	0.01182	1546.73	49.40	48.23	1544.99	60.10	59.82	1549.11	105.83	102.23
P1462_011_Zrn_A_1_MBD_77	1552.43	100.59	95.84	207Pb/235Uc	22	1.07	3.61315	0.44588	0.28028	0.02235	1552.43	100.59	95.84	1592.78	113.04	112.06	1497.95	241.95	223.99
P1462_011_Zrn_A_1_MBD_8	1563.66	53.18	51.82	207Pb/235Uc	217	3.07	3.66447	0.24112	0.28670	0.01625	1563.66	53.18	51.82	1625.03	81.66	81.15	1481.75	99.92	96.72
P1462_011_Zrn_A_1_MBD_96	1595.71	91.59	87.64	207Pb/235Uc	25	4.27	3.81404	0.42460	0.29912	0.02392	1595.71	91.59	87.64	1686.94	119.26	118.17	1477.22	178.38	168.44
P1462_011_Zrn_A_1_MBD_25	1599.69	64.92	62.91	207Pb/235Uc	51	2.69	3.83292	0.30412	0.28744	0.02184	1599.69	64.92	62.91	1628.74	109.85	108.92	1561.63	131.49	125.98
P1462_011_Zrn_A_1_MBD_21	1608.87	69.55	67.25	207Pb/235Uc	63	2.43	3.87684	0.32839	0.27525	0.02082	1608.87	69.55	67.25	1567.39	105.65	104.80	1663.61	116.41	112.05
P1462_011_Zrn_A_1_MBD_99	1629.37	72.33	69.84	207Pb/235Uc	90	3.26	3.97629	0.34825	0.28941	0.01530	1629.37	72.33	69.84	1638.58	76.71	76.25	1617.49	153.31	145.85
P1462_011_Zrn_A_1_MBD_2	1662.91	64.92	62.91	207Pb/235Uc	328	1.23	4.14341	0.32366	0.28039	0.01877	1662.91	64.92	62.91	1593.31	94.87	94.18	1751.95	135.51	129.62
P1462_011_Zrn_A_1_MBD_53	1686.33	45.38	44.38	207Pb/235Uc	140	2.09	4.26343	0.23261	0.29973	0.01348	1686.33	45.38	44.38	1689.95	67.03	66.69	1681.83	81.76	79.59

**Table 2.** U–Pb age data from the Cretaceous Colombian back–arc basin (*continued*).

Sample GPS–502																			
Analysis name	Preferred age (Ma)	2–sigma	2 +sigma	Age type	[U] (ppm)	U/Th	207Pb/235U Ratio	2 sigma	206Pb/238U Ratio	2 sigma	207Pb/235Uc age (Ma)	2–sigma	2 +sigma	206Pb/238U age (Ma)	2–sigma	2 +sigma	207Pb/206Pb age (Ma)	2–sigma	2 +sigma
P1462_011_Zrn_A_1_MBD_47	1707.55	46.24	45.21	207Pb/235Uc	179	1.00	4.37460	0.24199	0.31263	0.01265	1707.55	46.24	45.21	1753.64	62.27	61.97	1651.47	105.59	102.00
P1462_011_Zrn_A_1_MBD_95	1724.17	64.75	62.75	207Pb/235Uc	149	1.42	4.46327	0.34289	0.27521	0.02101	1724.17	64.75	62.75	1567.19	106.64	105.77	1920.40	147.85	140.81
P1462_011_Zrn_A_1_MBD_12	1724.54	41.00	40.19	207Pb/235Uc	364	1.64	4.46529	0.21845	0.30388	0.01165	1724.54	41.00	40.19	1710.54	57.72	57.46	1741.59	86.94	84.47
P1462_011_Zrn_A_1_MBD_40	1734.56	47.48	46.39	207Pb/235Uc	245	1.15	4.51947	0.25508	0.30819	0.01632	1734.56	47.48	46.39	1731.80	80.65	80.15	1737.89	121.87	117.08
P1462_011_Zrn_A_1_MBD_68	1738.63	106.89	101.54	207Pb/235Uc	93	3.23	4.54162	0.56826	0.29881	0.03387	1738.63	106.89	101.54	1685.42	169.20	167.01	1803.25	188.40	177.17
P1462_011_Zrn_A_1_MBD_23	1755.08	66.56	64.45	207Pb/235Uc	81	2.60	4.63212	0.36320	0.31986	0.01470	1755.08	66.56	64.45	1789.05	71.98	71.58	1714.86	143.52	136.93
P1462_011_Zrn_A_1_MBD_45	1758.83	46.65	45.60	207Pb/235Uc	169	1.65	4.65299	0.25673	0.31685	0.01292	1758.83	46.65	45.60	1774.34	63.39	63.08	1740.45	101.92	98.56
P1462_011_Zrn_A_1_MBD_52	1771.52	54.30	52.88	207Pb/235Uc	147	1.09	4.72409	0.30204	0.32433	0.01484	1771.52	54.30	52.88	1810.82	72.44	72.03	1725.51	108.23	104.44
P1462_011_Zrn_A_1_MBD_63	1777.29	76.28	73.52	207Pb/235Uc	112	1.87	4.75672	0.42446	0.31474	0.02242	1777.29	76.28	73.52	1763.98	110.39	109.46	1792.97	143.26	136.68
P1462_011_Zrn_A_1_MBD_103	1786.06	69.02	66.75	207Pb/235Uc	117	3.09	4.80664	0.38805	0.31597	0.01879	1786.06	69.02	66.75	1770.04	92.37	91.71	1804.83	136.37	130.39
P1462_011_Zrn_A_1_MBD_30	1797.72	49.36	48.19	207Pb/235Uc	191	1.88	4.87369	0.28208	0.31902	0.01671	1797.72	49.36	48.19	1784.94	81.93	81.41	1812.58	108.25	104.44
P1462_011_Zrn_A_1_MBD_59	1826.82	51.92	50.63	207Pb/235Uc	136	1.96	5.04449	0.30518	0.34097	0.01566	1826.82	51.92	50.63	1891.33	75.53	75.08	1754.07	109.94	106.03
P1462_011_Zrn_A_1_MBD_71	1848.58	102.33	97.42	207Pb/235Uc	28	1.64	5.17542	0.60696	0.33475	0.04147	1848.58	102.33	97.42	1861.35	201.88	198.77	1834.25	258.89	238.11
P1462_011_Zrn_A_1_MBD_26	1869.87	133.42	125.19	207Pb/235Uc	12	1.49	5.30623	0.80200	0.33313	0.03393	1869.87	133.42	125.19	1853.52	165.14	163.05	1888.08	269.74	247.21
P1462_011_Zrn_A_1_MBD_29	1931.58	78.81	75.86	207Pb/235Uc	82	1.19	5.70140	0.51016	0.34380	0.02530	1931.58	78.81	75.86	1904.92	121.96	120.82	1960.30	122.31	117.44
P1462_011_Zrn_A_1_MBD_28	2139.20	50.16	48.95	207Pb/235Uc	203	2.30	7.22177	0.40116	0.39994	0.02080	2139.20	50.16	48.95	2168.75	96.16	95.45	2110.93	90.29	87.59
P1462_011_Zrn_A_1_MBD_62	2436.67	86.86	83.30	207Pb/235Uc	337	2.99	10.02046	0.92285	0.43681	0.04677	2436.67	86.86	83.30	2336.34	211.58	208.16	2521.53	161.16	152.62
P1462_011_Zrn_A_1_MBD_5	2530.83	54.01	52.61	207Pb/235Uc	144	1.85	11.09133	0.63466	0.47013	0.02256	2530.83	54.01	52.61	2484.14	99.31	98.55	2568.48	84.84	82.41

  

Sample GPS–506																			
Analysis name	Preferred age (Ma)	2–sigma	2 +sigma	Age type	[U] (ppm)	U/Th	207Pb/235U Ratio	2 sigma	206Pb/238U Ratio	2 sigma	207Pb/235Uc age (Ma)	2–sigma	2 +sigma	206Pb/238U age (Ma)	2–sigma	2 +sigma	207Pb/206Pb age (Ma)	2–sigma	2 +sigma
P1462_015_Zrn_A_1_MBD_44	479.96	54.43	53.01	207Pb/235Uc	293	1.68	0.60430	0.08486	0.07789	0.00972	479.96	54.43	53.01	483.51	58.28	58.02	463.05	292.17	267.75
P1462_015_Zrn_A_1_MBD_76	498.34	42.71	42.57	206Pb/238U	61	1.38	0.67007	0.08345	0.08037	0.00715	520.75	51.38	50.11	498.34	42.71	42.57	620.32	261.92	241.94
P1462_015_Zrn_A_1_MBD_41	528.73	57.07	55.51	207Pb/235Uc	185	1.49	0.68324	0.09329	0.08076	0.00965	528.73	57.07	55.51	500.66	57.66	57.41	651.83	289.77	265.47
P1462_015_Zrn_A_1_MBD_40	592.18	46.60	45.55	207Pb/235Uc	241	3.18	0.79177	0.08130	0.09802	0.01015	592.18	46.60	45.55	602.77	59.73	59.46	551.81	243.45	226.16
P1462_015_Zrn_A_1_MBD_71	650.73	51.20	51.00	206Pb/238U	94	1.43	0.88035	0.10341	0.10622	0.00877	641.17	56.62	55.08	650.73	51.20	51.00	607.64	277.64	255.31
P1462_015_Zrn_A_1_MBD_18	685.50	57.65	57.40	206Pb/238U	24	0.75	0.91707	0.12960	0.11220	0.00992	660.81	69.83	67.51	685.50	57.65	57.40	577.44	318.17	289.23
P1462_015_Zrn_A_1_MBD_46	721.40	66.36	66.02	206Pb/238U	99	1.70	1.03370	0.13471	0.11841	0.01148	720.78	68.40	66.17	721.40	66.36	66.02	718.86	287.27	263.28
P1462_015_Zrn_A_1_MBD_60	722.03	65.60	65.27	206Pb/238U	65	5.24	1.03370	0.13343	0.11852	0.01135	720.78	67.74	65.55	722.03	65.60	65.27	716.86	250.56	232.11
P1462_015_Zrn_A_1_MBD_22	724.74	72.44	69.94	207Pb/235Uc	19	0.81	1.04166	0.14309	0.11644	0.01448	724.74	72.44	69.94	710.07	83.86	83.32	770.41	262.31	242.10
P1462_015_Zrn_A_1_MBD_51	732.84	54.40	54.17	206Pb/238U	152	3.00	1.09053	0.11886	0.12040	0.00944	748.76	58.57	56.92	732.84	54.40	54.17	796.64	229.56	213.91
P1462_015_Zrn_A_1_MBD_104	760.10	55.30	53.84	207Pb/235Uc	162	1.87	1.11401	0.11358	0.12666	0.01065	760.10	55.30	53.84	768.79	61.06	60.77	734.64	220.83	206.36
P1462_015_Zrn_A_1_MBD_86	800.77	49.96	49.77	206Pb/238U	70	0.69	1.16624	0.11714	0.13226	0.00876	784.88	55.66	54.18	800.77	49.96	49.77	739.98	209.80	196.70
P1462_015_Zrn_A_1_MBD_84	839.91	93.30	92.63	206Pb/238U	24	2.67	1.41620	0.30443	0.13916	0.01643	895.77	132.14	124.07	839.91	93.30	92.63	1036.26	465.23	404.38
P1462_015_Zrn_A_1_MBD_73	862.63	67.03	64.88	207Pb/235Uc	62	1.05	1.33862	0.15185	0.13260	0.01290	862.63	67.03	64.88	802.67	73.65	73.23	1020.00	228.37	212.68
P1462_015_Zrn_A_1_MBD_78	924.18	72.66	70.15	207Pb/235Uc	154	2.15	1.48476	0.17467	0.16305	0.01541	924.18	72.66	70.15	973.68	85.72	85.15	807.83	248.46	230.22
P1462_015_Zrn_A_1_MBD_90	932.39	85.05	81.63	207Pb/235Uc	68	2.73	1.50493	0.20549	0.17457	0.02057	932.39	85.05	81.63	1037.22	113.39	112.41	692.13	256.32	237.08
P1462_015_Zrn_A_1_MBD_21	934.04	77.03	74.22	207Pb/235Uc	20	3.13	1.50901	0.18679	0.15331	0.01652	934.04	77.03	74.22	919.48	92.68	92.02	968.55	241.66	224.22
P1462_015_Zrn_A_1_MBD_64	953.09	69.69	67.38	207Pb/235Uc	120	1.93	1.55652	0.17250	0.15568	0.01488	953.09	69.69	67.38	932.72	83.27	82.73	1000.41	214.53	200.65
P1462_015_Zrn_A_1_MBD_54	953.56	77.32	74.49	207Pb/235Uc	292	2.29	1.55772	0.19111	0.17228	0.02070	953.56	77.32	74.49	1024.65	114.34	113.34	792.94	304.78	277.80
P1462_015_Zrn_A_1_MBD_99	968.34	72.60	72.19	206Pb/238U	91	3.57	1.58969	0.18603	0.16208	0.01305	966.18	74.28	71.66	968.34	72.60	72.19	961.25	229.78	213.96

**Table 2.** U–Pb age data from the Cretaceous Colombian back–arc basin (*continued*).

Analysis name	Preferred age (Ma)	Sample GPS–506																	
		2–sigma	2 +sigma	Age type	[U] (ppm)	U/Th	207Pb/235U Ratio	2 sigma	206Pb/238U Ratio	2 sigma	207Pb/235Uc age (Ma)	2–sigma	2 +sigma	206Pb/238U age (Ma)	2–sigma	2 +sigma	207Pb/206Pb age (Ma)	2–sigma	2 +sigma
P1462_015_Zrn_A_1_MBD_101	973.87	57.12	55.56	207Pb/235Uc	140	2.26	1.60940	0.14476	0.15548	0.01139	973.87	57.12	55.56	931.62	63.68	63.37	1070.44	185.46	174.95
P1462_015_Zrn_A_1_MBD_32	976.02	65.33	63.29	207Pb/235Uc	85	1.82	1.61492	0.16557	0.15645	0.01444	976.02	65.33	63.29	937.03	80.76	80.26	1064.83	201.68	189.32
P1462_015_Zrn_A_1_MBD_28	982.41	50.25	49.03	207Pb/235Uc	274	5.52	1.63144	0.12862	0.16252	0.01208	982.41	50.25	49.03	970.76	67.16	66.82	1008.54	130.25	125.00
P1462_015_Zrn_A_1_MBD_79	982.98	60.76	58.99	207Pb/235Uc	94	1.35	1.63292	0.15522	0.17310	0.01540	982.98	60.76	58.99	1029.15	84.92	84.37	881.26	180.49	170.62
P1462_015_Zrn_A_1_MBD_82	983.31	60.04	58.31	207Pb/235Uc	160	3.09	1.63375	0.15345	0.16527	0.01565	983.31	60.04	58.31	985.98	86.85	86.27	977.35	197.70	185.87
P1462_015_Zrn_A_1_MBD_13	984.11	75.21	72.53	207Pb/235Uc	313	4.67	1.63585	0.19167	0.15415	0.01858	984.11	75.21	72.53	924.17	104.19	103.35	1120.33	226.91	211.34
P1462_015_Zrn_A_1_MBD_65	988.21	86.72	86.15	206Pb/238U	62	2.79	1.62250	0.24168	0.16567	0.01563	978.96	95.80	91.48	988.21	86.72	86.15	958.26	296.07	270.31
P1462_015_Zrn_A_1_MBD_85	992.79	63.60	61.67	207Pb/235Uc	146	2.76	1.65846	0.16394	0.15854	0.01599	992.79	63.60	61.67	948.63	89.30	88.69	1091.68	197.31	185.45
P1462_015_Zrn_A_1_MBD_74	997.76	78.25	75.35	207Pb/235Uc	31	1.96	1.67151	0.20196	0.17370	0.01785	997.76	78.25	75.35	1032.45	98.41	97.66	922.28	276.00	253.53
P1462_015_Zrn_A_1_MBD_57	999.38	124.10	116.95	207Pb/235Uc	56	1.85	1.67576	0.31724	0.16522	0.02935	999.38	124.10	116.95	985.71	163.41	161.36	1029.47	283.87	260.02
P1462_015_Zrn_A_1_MBD_27	1010.20	73.68	71.10	207Pb/235Uc	92	1.74	1.70443	0.19273	0.17375	0.01726	1010.20	73.68	71.10	1032.74	95.16	94.47	961.63	215.91	201.89
P1462_015_Zrn_A_1_MBD_52	1010.90	57.88	56.28	207Pb/235Uc	169	2.74	1.70630	0.15210	0.16865	0.01389	1010.90	57.88	56.28	1004.66	76.84	76.38	1024.44	164.36	156.07
P1462_015_Zrn_A_1_MBD_33	1011.13	64.91	62.90	207Pb/235Uc	121	2.24	1.70693	0.17030	0.17597	0.01561	1011.13	64.91	62.90	1044.93	85.83	85.26	938.62	196.08	184.46
P1462_015_Zrn_A_1_MBD_9	1021.14	80.44	79.94	206Pb/238U	44	2.20	1.71105	0.21824	0.17164	0.01457	1012.68	83.43	80.14	1021.14	80.44	79.94	994.42	251.57	232.69
P1462_015_Zrn_A_1_MBD_56	1031.05	59.76	58.05	207Pb/235Uc	101	1.82	1.76056	0.16011	0.16485	0.01483	1031.05	59.76	58.05	983.68	82.35	81.83	1132.95	184.27	173.86
P1462_015_Zrn_A_1_MBD_95	1046.75	61.50	59.70	207Pb/235Uc	90	2.22	1.80358	0.16727	0.17183	0.01430	1046.75	61.50	59.70	1022.19	78.89	78.41	1098.40	190.58	179.49
P1462_015_Zrn_A_1_MBD_23	1050.65	77.76	74.90	207Pb/235Uc	95	2.91	1.81434	0.21146	0.17706	0.01832	1050.65	77.76	74.90	1050.88	100.71	99.92	1050.15	187.33	176.63
P1462_015_Zrn_A_1_MBD_38	1058.47	71.92	69.46	207Pb/235Uc	42	5.76	1.83610	0.19736	0.16859	0.01578	1058.47	71.92	69.46	1004.34	87.33	86.75	1171.85	226.90	211.29
P1462_015_Zrn_A_1_MBD_105	1060.00	65.09	63.07	207Pb/235Uc	191	0.99	1.84038	0.17920	0.17902	0.01453	1060.00	65.09	63.07	1061.64	79.66	79.17	1056.61	187.33	176.62
P1462_015_Zrn_A_1_MBD_12	1060.52	66.15	64.07	207Pb/235Uc	397	14.05	1.84185	0.18217	0.17856	0.01616	1060.52	66.15	64.07	1059.09	88.71	88.11	1063.46	181.01	170.99
P1462_015_Zrn_A_1_MBD_96	1060.74	78.41	75.50	207Pb/235Uc	52	2.00	1.84246	0.21532	0.17872	0.01649	1060.74	78.41	75.50	1060.00	90.49	89.86	1062.27	239.62	222.37
P1462_015_Zrn_A_1_MBD_8	1072.77	115.22	114.20	206Pb/238U	124	2.54	2.40466	0.70751	0.18106	0.02102	1243.99	222.79	200.75	1072.77	115.22	114.20	1554.07	604.41	503.16
P1462_015_Zrn_A_1_MBD_67	1073.90	61.69	59.87	207Pb/235Uc	218	3.88	1.87955	0.17231	0.18090	0.01458	1073.90	61.69	59.87	1071.87	79.85	79.36	1078.02	179.96	170.04
P1462_015_Zrn_A_1_MBD_97	1074.33	84.04	80.70	207Pb/235Uc	269	2.42	1.88075	0.23355	0.19124	0.02326	1074.33	84.04	80.70	1128.11	126.51	125.28	966.74	281.83	258.39
P1462_015_Zrn_A_1_MBD_91	1078.70	78.96	76.00	207Pb/235Uc	57	3.79	1.89318	0.22067	0.18431	0.01919	1078.70	78.96	76.00	1090.47	104.90	104.06	1055.00	189.25	178.33
P1462_015_Zrn_A_1_MBD_107	1086.32	63.54	61.61	207Pb/235Uc	182	3.76	1.91497	0.17958	0.18647	0.01538	1086.32	63.54	61.61	1102.22	83.85	83.31	1054.57	190.97	179.86
P1462_015_Zrn_A_1_MBD_87	1088.39	63.53	61.61	207Pb/235Uc	131	4.39	1.92092	0.17994	0.18187	0.01604	1088.39	63.53	61.61	1077.21	87.80	87.21	1110.83	161.03	153.03
P1462_015_Zrn_A_1_MBD_58	1093.54	64.07	62.11	207Pb/235Uc	191	3.95	1.93577	0.18236	0.19540	0.01743	1093.54	64.07	62.11	1150.58	94.35	93.66	981.67	161.66	153.66
P1462_015_Zrn_A_1_MBD_26	1101.31	65.42	63.38	207Pb/235Uc	124	4.29	1.95832	0.18756	0.19535	0.01754	1101.31	65.42	63.38	1150.29	94.96	94.27	1005.77	181.39	171.37
P1462_015_Zrn_A_1_MBD_106	1101.92	62.00	60.16	207Pb/235Uc	256	4.73	1.96011	0.17802	0.18102	0.01660	1101.92	62.00	60.16	1072.54	90.91	90.27	1160.39	188.06	177.22
P1462_015_Zrn_A_1_MBD_14	1135.37	119.61	112.96	207Pb/235Uc	27	1.38	2.05923	0.34997	0.16739	0.01886	1135.37	119.61	112.96	997.72	104.54	103.70	1408.94	339.78	305.52
P1462_015_Zrn_A_1_MBD_45	1161.21	94.79	90.56	207Pb/235Uc	39	1.66	2.13809	0.28622	0.20659	0.02090	1161.21	94.79	90.56	1210.62	112.14	111.17	1070.14	261.49	241.07
P1462_015_Zrn_A_1_MBD_94	1172.52	74.90	72.24	207Pb/235Uc	95	1.71	2.17325	0.22981	0.20257	0.01857	1172.52	74.90	72.24	1189.13	99.95	99.18	1141.97	179.10	169.24
P1462_015_Zrn_A_1_MBD_17	1177.54	70.12	67.78	207Pb/235Uc	184	1.80	2.18898	0.21647	0.19766	0.01885	1177.54	70.12	67.78	1162.72	101.85	101.05	1204.89	178.50	168.68
P1462_015_Zrn_A_1_MBD_68	1181.48	66.44	64.34	207Pb/235Uc	169	2.73	2.20137	0.20610	0.20416	0.02220	1181.48	66.44	64.34	1197.61	119.42	118.32	1152.06	204.97	192.16
P1462_015_Zrn_A_1_MBD_37	1189.75	73.95	71.35	207Pb/235Uc	339	5.54	2.22755	0.23083	0.20058	0.01847	1189.75	73.95	71.35	1178.46	99.58	98.81	1210.32	195.43	183.71
P1462_015_Zrn_A_1_MBD_43	1199.09	89.06	85.31	207Pb/235Uc	79	1.91	2.25739	0.27952	0.20638	0.02434	1199.09	89.06	85.31	1209.49	130.70	129.39	1180.41	204.41	191.65
P1462_015_Zrn_A_1_MBD_81	1203.58	76.06	73.31	207Pb/235Uc	198	2.65	2.27183	0.24055	0.20609	0.02647	1203.58	76.06	73.31	1207.94	142.28	140.73	1195.78	240.45	222.96
P1462_015_Zrn_A_1_MBD_88	1204.34	72.65	70.14	207Pb/235Uc	48	3.25	2.27426	0.23014	0.20450	0.01515	1204.34	72.65	70.14	1199.46	81.35	80.84	1213.09	207.58	194.41
P1462_015_Zrn_A_1_MBD_98	1205.12	93.06	88.98	207Pb/235Uc	58	1.85	2.27678	0.29353	0.19922	0.01744	1205.12	93.06	88.98	1171.14	94.11	93.42	1266.54	237.09	220.02
P1462_015_Zrn_A_1_MBD_30	1219.19	70.23	67.88	207Pb/235Uc	120	3.27	2.32251	0.22587	0.21259	0.01881	1219.19	70.23	67.88	1242.61	100.39	99.62	1177.97	158.08	150.34
P1462_015_Zrn_A_1_MBD_109	1222.13	61.29	59.50	207Pb/235Uc	118	6.84	2.33215	0.19813	0.21327	0.01567	1222.13	61.29	59.50	1246.21	83.50	82.96	1179.88	150.29	143.27

**Table 2.** U–Pb age data from the Cretaceous Colombian back–arc basin (*continued*).

Analysis name	Preferred age (Ma)	Sample GPS–506																	
		2 –sigma	2 +sigma	Age type	[U] (ppm)	U/Th	207Pb/235U Ratio	2 sigma	206Pb/238U Ratio	2 sigma	207Pb/235Uc age (Ma)	2 –sigma	2 +sigma	206Pb/238U age (Ma)	2 –sigma	2 +sigma	207Pb/206Pb age (Ma)	2 –sigma	2 +sigma
P1462_015_Zrn_A_1_MBD_75	1252.93	75.35	72.66	207Pb/235Uc	93	2.92	2.43477	0.25023	0.21225	0.01589	1252.93	75.35	72.66	1240.78	84.80	84.25	1273.87	191.14	179.88
P1462_015_Zrn_A_1_MBD_29	1274.75	64.44	62.46	207Pb/235Uc	207	2.49	2.50938	0.21923	0.20990	0.01674	1274.75	64.44	62.46	1228.29	89.51	88.89	1353.98	149.64	142.62
P1462_015_Zrn_A_1_MBD_39	1299.42	78.61	75.68	207Pb/235Uc	76	5.28	2.59570	0.27307	0.22408	0.02091	1299.42	78.61	75.68	1303.39	110.58	109.64	1292.88	181.45	171.26
P1462_015_Zrn_A_1_MBD_19	1299.79	86.07	82.57	207Pb/235Uc	327	29.13	2.59698	0.29854	0.22040	0.02568	1299.79	86.07	82.57	1283.97	136.38	134.95	1326.00	197.66	185.61
P1462_015_Zrn_A_1_MBD_20	1316.61	87.13	83.55	207Pb/235Uc	131	2.07	2.65708	0.30718	0.22715	0.02030	1316.61	87.13	83.55	1319.53	107.07	106.19	1311.87	190.59	179.37
P1462_015_Zrn_A_1_MBD_53	1318.45	64.05	62.09	207Pb/235Uc	104	4.49	2.66372	0.22751	0.22341	0.01745	1318.45	64.05	62.09	1299.86	92.27	91.62	1348.81	163.16	154.85
P1462_015_Zrn_A_1_MBD_5	1335.59	68.79	66.54	207Pb/235Uc	850	2.66	2.72607	0.24821	0.21771	0.01895	1335.59	68.79	66.54	1269.78	100.70	99.93	1442.70	157.37	149.59
P1462_015_Zrn_A_1_MBD_80	1363.90	79.74	76.73	207Pb/235Uc	108	2.57	2.83142	0.29505	0.24027	0.02252	1363.90	79.74	76.73	1388.08	117.56	116.50	1326.21	182.79	172.44
P1462_015_Zrn_A_1_MBD_7	1368.36	97.30	92.85	207Pb/235Uc	185	1.29	2.84831	0.36008	0.20320	0.02817	1368.36	97.30	92.85	1192.49	151.79	150.03	1654.69	212.29	198.23
P1462_015_Zrn_A_1_MBD_16	1369.01	90.31	86.47	207Pb/235Uc	145	0.97	2.85075	0.33499	0.21017	0.02164	1369.01	90.31	86.47	1229.72	115.78	114.75	1593.56	211.66	197.73
P1462_015_Zrn_A_1_MBD_25	1392.83	72.59	70.09	207Pb/235Uc	65	2.60	2.94218	0.27686	0.23000	0.02135	1392.83	72.59	70.09	1334.50	112.38	111.41	1483.34	181.86	171.53
P1462_015_Zrn_A_1_MBD_55	1426.54	79.77	76.76	207Pb/235Uc	272	1.51	3.07522	0.31395	0.24334	0.02154	1426.54	79.77	76.76	1404.03	112.14	111.18	1460.28	183.40	172.92
P1462_015_Zrn_A_1_MBD_63	1431.75	77.61	74.75	207Pb/235Uc	73	3.17	3.09618	0.30718	0.23824	0.01886	1431.75	77.61	74.75	1377.54	98.55	97.80	1513.25	179.95	169.82
P1462_015_Zrn_A_1_MBD_103	1453.41	87.84	84.19	207Pb/235Uc	43	0.88	3.18453	0.35427	0.26181	0.02861	1453.41	87.84	84.19	1499.07	147.01	145.36	1387.27	189.70	178.54
P1462_015_Zrn_A_1_MBD_77	1471.29	71.85	69.39	207Pb/235Uc	323	1.05	3.25884	0.29608	0.26028	0.02109	1471.29	71.85	69.39	1491.27	108.33	107.43	1442.57	171.58	162.38
P1462_015_Zrn_A_1_MBD_1	1475.50	127.08	119.60	207Pb/235Uc	93	2.20	3.27655	0.51884	0.26587	0.03987	1475.50	127.08	119.60	1519.80	204.65	201.45	1412.35	288.70	263.59
P1462_015_Zrn_A_1_MBD_15	1483.03	80.58	77.51	207Pb/235Uc	34	1.10	3.30837	0.33522	0.24698	0.02419	1483.03	80.58	77.51	1422.89	125.67	124.46	1570.14	166.79	158.03
P1462_015_Zrn_A_1_MBD_35	1483.04	67.50	65.33	207Pb/235Uc	165	2.61	3.30843	0.28170	0.26374	0.02073	1483.04	67.50	65.33	1508.97	106.17	105.31	1446.15	139.79	133.62
P1462_015_Zrn_A_1_MBD_4	1496.86	84.96	81.55	207Pb/235Uc	313	2.95	3.36747	0.35792	0.26479	0.03057	1496.86	84.96	81.55	1514.30	156.77	154.88	1472.26	217.26	202.69
P1462_015_Zrn_A_1_MBD_34	1498.18	68.18	65.97	207Pb/235Uc	177	2.17	3.37315	0.28877	0.24213	0.02297	1498.18	68.18	65.97	1397.74	119.76	118.66	1643.30	163.81	155.32
P1462_015_Zrn_A_1_MBD_2	1503.09	91.81	87.84	207Pb/235Uc	78	1.39	3.39435	0.38848	0.24182	0.02336	1503.09	91.81	87.84	1396.18	121.84	120.69	1657.23	195.50	183.52
P1462_015_Zrn_A_1_MBD_59	1519.84	72.00	69.54	207Pb/235Uc	201	4.09	3.46744	0.31124	0.27854	0.02758	1519.84	72.00	69.54	1584.02	139.82	138.32	1431.57	201.81	189.20
P1462_015_Zrn_A_1_MBD_83	1556.20	83.82	80.50	207Pb/235Uc	60	2.67	3.63030	0.37447	0.28512	0.02413	1556.20	83.82	80.50	1617.10	121.63	120.49	1474.48	211.22	197.42
P1462_015_Zrn_A_1_MBD_102	1566.96	63.18	61.27	207Pb/235Uc	187	3.14	3.67962	0.28668	0.29004	0.01951	1566.96	63.18	61.27	1641.73	97.86	97.12	1467.64	125.99	120.94
P1462_015_Zrn_A_1_MBD_31	1575.77	66.62	64.50	207Pb/235Uc	87	1.47	3.72042	0.30467	0.27734	0.02134	1575.77	66.62	64.50	1577.96	108.16	107.27	1572.84	133.16	127.52
P1462_015_Zrn_A_1_MBD_92	1586.69	62.59	60.72	207Pb/235Uc	68	3.53	3.77143	0.28965	0.27370	0.02219	1586.69	62.59	60.72	1559.55	112.78	111.80	1622.94	163.94	155.44
P1462_015_Zrn_A_1_MBD_108	1621.25	97.41	92.95	207Pb/235Uc	65	1.40	3.93664	0.46242	0.27588	0.02589	1621.25	97.41	92.95	1570.56	131.49	130.16	1687.69	208.66	195.05
P1462_015_Zrn_A_1_MBD_47	1628.71	91.30	87.37	207Pb/235Uc	62	2.39	3.97304	0.43727	0.29075	0.02975	1628.71	91.30	87.37	1645.27	149.43	147.72	1607.38	180.22	170.01
P1462_015_Zrn_A_1_MBD_66	1632.38	80.32	77.27	207Pb/235Uc	73	2.45	3.99104	0.38711	0.30181	0.02894	1632.38	80.32	77.27	1700.28	144.11	142.52	1545.95	153.12	145.71
P1462_015_Zrn_A_1_MBD_3	1646.20	144.07	134.52	207Pb/235Uc	104	1.36	4.05944	0.69300	0.28854	0.04403	1646.20	144.07	134.52	1634.24	222.20	218.44	1661.50	229.82	213.43
P1462_015_Zrn_A_1_MBD_48	1650.55	67.39	65.23	207Pb/235Uc	138	1.25	4.08119	0.33170	0.28055	0.02154	1650.55	67.39	65.23	1594.13	108.92	108.01	1723.15	148.68	141.63
P1462_015_Zrn_A_1_MBD_61	1658.43	95.86	91.53	207Pb/235Uc	77	1.94	4.12079	0.47219	0.28077	0.03622	1658.43	95.86	91.53	1595.26	183.58	181.01	1739.40	244.76	226.19
P1462_015_Zrn_A_1_MBD_93	1660.42	109.82	104.19	207Pb/235Uc	33	2.69	4.13081	0.54020	0.29220	0.03359	1660.42	109.82	104.19	1652.51	168.64	166.47	1670.44	236.72	219.36
P1462_015_Zrn_A_1_MBD_6	1704.28	87.75	84.11	207Pb/235Uc	196	1.64	4.35728	0.45312	0.29740	0.03396	1704.28	87.75	84.11	1678.42	169.87	167.66	1736.21	187.54	176.44
P1462_015_Zrn_A_1_MBD_42	1704.70	89.02	85.28	207Pb/235Uc	224	1.86	4.35953	0.45974	0.32170	0.03251	1704.70	89.02	85.28	1798.04	159.57	157.62	1591.82	203.54	190.62
P1462_015_Zrn_A_1_MBD_0	1732.64	85.15	81.73	207Pb/235Uc	162	1.98	4.50906	0.45246	0.30139	0.02870	1732.64	85.15	81.73	1698.20	142.97	141.40	1774.49	184.73	173.94
P1462_015_Zrn_A_1_MBD_72	1759.29	78.37	75.46	207Pb/235Uc	55	2.57	4.65557	0.42821	0.32138	0.02486	1759.29	78.37	75.46	1796.46	121.88	120.74	1715.43	158.44	150.45
P1462_015_Zrn_A_1_MBD_36	1767.71	92.33	88.32	207Pb/235Uc	138	1.28	4.70262	0.50695	0.32264	0.03000	1767.71	92.33	88.32	1802.59	147.05	145.39	1726.74	163.18	154.72
P1462_015_Zrn_A_1_MBD_70	1779.27	87.02	83.44	207Pb/235Uc	214	2.22	4.76792	0.48386	0.32830	0.03231	1779.27	87.02	83.44	1830.12	157.76	155.85	1720.12	174.60	164.95
P1462_015_Zrn_A_1_MBD_89	1804.88	76.68	73.89	207Pb/235Uc	101	2.09	4.91525	0.43838	0.34657	0.03047	1804.88	76.68	73.89	1918.18	146.69	145.04	1676.41	140.22	133.94
P1462_015_Zrn_A_1_MBD_11	1813.39	87.11	83.53	207Pb/235Uc	125	0.98	4.96507	0.50095	0.31602	0.03156	1813.39	87.11	83.53	1770.29	155.53	153.68	1863.30	169.18	160.04
P1462_015_Zrn_A_1_MBD_50	1857.58	63.45	61.53	207Pb/235Uc	686	8.20	5.23040	0.38334	0.31490	0.02143	1857.58	63.45	61.53	1764.78	105.51	104.66	1963.11	123.55	118.58

**Table 2.** U–Pb age data from the Cretaceous Colombian back–arc basin (*continued*).

Sample GPS–506																			
Analysis name	Preferred age (Ma)	2–sigma	2 +sigma	Age type	[U] (ppm)	U/Th	207Pb/235U Ratio	2 sigma	206Pb/238U Ratio	2 sigma	207Pb/235Uc age (Ma)	2–sigma	2 +sigma	206Pb/238U age (Ma)	2–sigma	2 +sigma	207Pb/206Pb age (Ma)	2–sigma	2 +sigma
P1462_015_Zrn_A_1_MBD_24	2047.32	92.61	88.57	207Pb/235Uc	41	2.40	6.51052	0.66962	0.36530	0.03532	2047.32	92.61	88.57	2007.24	167.87	165.71	2087.94	162.07	153.58
P1462_015_Zrn_A_1_MBD_10	2065.08	94.75	90.53	207Pb/235Uc	77	1.58	6.64306	0.69684	0.37339	0.03281	2065.08	94.75	90.53	2045.35	154.93	153.09	2084.83	173.39	163.72
P1462_015_Zrn_A_1_MBD_62	2332.84	143.85	134.33	207Pb/235Uc	191	1.79	8.94921	1.36074	0.38663	0.05850	2332.84	143.85	134.33	2107.20	274.87	269.13	2536.56	249.23	229.36
P1462_015_Zrn_A_1_MBD_100	2641.96	97.86	93.36	207Pb/235Uc	276	2.73	12.48974	1.26922	0.49495	0.04830	2641.96	97.86	93.36	2592.07	209.98	206.61	2680.39	135.31	129.20
Sample GPS–510																			
Analysis name	Preferred age (Ma)	2–sigma	2 +sigma	Age type	[U] (ppm)	U/Th	207Pb/235U Ratio	2 sigma	206Pb/238U Ratio	2 sigma	207Pb/235Uc age (Ma)	2–sigma	2 +sigma	206Pb/238U age (Ma)	2–sigma	2 +sigma	207Pb/206Pb age (Ma)	2–sigma	2 +sigma
P1462_064_Zrn_A_1_MBD_45	312.27	9.77	9.76	206Pb/238U	423	1.02	0.34996	0.02119	0.04963	0.00159	304.69	16.00	15.88	312.27	9.77	9.76	247.03	134.65	129.29
P1462_064_Zrn_A_1_MBD_87	364.14	27.75	27.69	206Pb/238U	269	0.68	0.44798	0.05258	0.05811	0.00455	375.86	37.21	36.54	364.14	27.75	27.69	448.74	294.84	270.01
P1462_064_Zrn_A_1_MBD_94	369.90	13.50	13.49	206Pb/238U	354	1.93	0.44477	0.03225	0.05906	0.00222	373.61	22.79	22.54	369.90	13.50	13.49	396.70	162.45	154.64
P1462_064_Zrn_A_1_MBD_101	372.72	11.51	11.50	206Pb/238U	1136	1.78	0.44535	0.02012	0.05952	0.00189	374.02	14.18	14.08	372.72	11.51	11.50	382.10	98.77	95.83
P1462_064_Zrn_A_1_MBD_58	378.25	19.99	19.96	206Pb/238U	425	1.87	0.47339	0.03508	0.06043	0.00329	393.53	24.32	24.04	378.25	19.99	19.96	484.31	157.55	150.16
P1462_064_Zrn_A_1_MBD_30	387.10	14.13	14.11	206Pb/238U	483	5.05	0.47828	0.03484	0.06189	0.00233	396.89	24.07	23.79	387.10	14.13	14.11	454.31	157.87	150.46
P1462_064_Zrn_A_1_MBD_55	387.35	22.58	22.54	206Pb/238U	117	2.72	0.45641	0.06480	0.06193	0.00372	381.76	45.69	44.68	387.35	22.58	22.54	347.97	340.73	308.19
P1462_064_Zrn_A_1_MBD_6	388.59	11.12	11.11	206Pb/238U	274	0.81	0.44056	0.04335	0.06213	0.00183	370.65	30.78	30.33	388.59	11.12	11.11	259.92	234.81	218.98
P1462_064_Zrn_A_1_MBD_60	399.83	12.21	12.20	206Pb/238U	269	2.27	0.49757	0.03491	0.06399	0.00201	410.06	23.81	23.53	399.83	12.21	12.20	468.02	157.60	150.21
P1462_064_Zrn_A_1_MBD_51	402.57	12.13	12.12	206Pb/238U	402	2.07	0.46969	0.03457	0.06444	0.00200	390.97	24.02	23.74	402.57	12.13	12.12	322.92	166.66	158.49
P1462_064_Zrn_A_1_MBD_72	404.04	15.11	15.09	206Pb/238U	242	1.97	0.51889	0.05072	0.06468	0.00249	424.41	34.19	33.63	404.04	15.11	15.09	536.61	221.50	207.12
P1462_064_Zrn_A_1_MBD_18	407.52	14.96	14.94	206Pb/238U	463	3.54	0.50159	0.03565	0.06526	0.00247	412.78	24.25	23.97	407.52	14.96	14.94	442.24	151.57	144.73
P1462_064_Zrn_A_1_MBD_53	411.98	15.47	15.45	206Pb/238U	167	2.92	0.49148	0.04733	0.06600	0.00256	405.92	32.48	31.97	411.98	15.47	15.45	371.54	227.92	212.86
P1462_064_Zrn_A_1_MBD_88	415.02	17.51	17.49	206Pb/238U	226	1.11	0.46701	0.03554	0.06650	0.00290	389.12	24.75	24.45	415.02	17.51	17.49	237.93	197.84	186.50
P1462_064_Zrn_A_1_MBD_34	417.54	14.12	14.11	206Pb/238U	234	2.41	0.50900	0.04039	0.06691	0.00234	417.77	27.36	27.00	417.54	14.12	14.11	419.07	181.60	171.89
P1462_064_Zrn_A_1_MBD_67	419.70	10.95	10.94	206Pb/238U	563	1.21	0.49046	0.03370	0.06727	0.00181	405.22	23.09	22.83	419.70	10.95	10.94	323.49	157.54	150.22
P1462_064_Zrn_A_1_MBD_22	422.79	18.09	18.06	206Pb/238U	332	1.52	0.50001	0.03559	0.06778	0.00299	411.71	24.24	23.95	422.79	18.09	18.06	350.04	157.72	150.37
P1462_064_Zrn_A_1_MBD_57	431.16	15.13	15.11	206Pb/238U	265	8.18	0.51789	0.04041	0.06917	0.00251	423.74	27.21	26.85	431.16	15.13	15.11	383.59	172.24	163.50
P1462_064_Zrn_A_1_MBD_7	441.62	21.01	20.98	206Pb/238U	215	1.22	0.52361	0.06528	0.07091	0.00349	427.56	43.97	43.04	441.62	21.01	20.98	352.46	299.39	273.97
P1462_064_Zrn_A_1_MBD_71	450.56	13.77	13.76	206Pb/238U	210	0.95	0.56232	0.04889	0.07239	0.00229	453.04	32.02	31.53	450.56	13.77	13.76	465.63	195.42	184.19
P1462_064_Zrn_A_1_MBD_23	454.00	27.06	27.00	206Pb/238U	99	1.44	0.54505	0.06695	0.07297	0.00450	441.75	44.48	43.53	454.00	27.06	27.00	378.39	273.95	252.48
P1462_064_Zrn_A_1_MBD_25	471.47	16.06	16.04	206Pb/238U	255	3.38	0.57445	0.03803	0.07588	0.00268	460.89	24.68	24.38	471.47	16.06	16.04	408.51	138.55	132.83
P1462_064_Zrn_A_1_MBD_36	482.96	40.40	40.27	206Pb/238U	44	0.78	0.57985	0.09500	0.07780	0.00674	464.37	62.00	60.16	482.96	40.40	40.27	373.42	389.49	347.48
P1462_064_Zrn_A_1_MBD_64	489.56	29.62	29.55	206Pb/238U	127	1.63	0.60786	0.05832	0.07890	0.00495	482.21	37.17	36.50	489.56	29.62	29.55	447.40	197.76	186.27
P1462_064_Zrn_A_1_MBD_13	503.94	23.77	23.73	206Pb/238U	125	0.83	0.61095	0.05707	0.08131	0.00398	484.16	36.29	35.65	503.94	23.77	23.73	391.55	205.05	192.77
P1462_064_Zrn_A_1_MBD_24	505.33	17.74	17.71	206Pb/238U	148	0.87	0.62033	0.06089	0.08154	0.00297	490.06	38.52	37.80	505.33	17.74	17.71	419.27	229.07	213.82
P1462_064_Zrn_A_1_MBD_41	510.75	20.53	20.50	206Pb/238U	82	1.01	0.66440	0.08306	0.08245	0.00345	517.30	51.32	50.05	510.75	20.53	20.50	546.35	283.49	260.33
P1462_064_Zrn_A_1_MBD_28	526.86	15.27	15.25	206Pb/238U	767	2.58	0.67377	0.04441	0.08516	0.00257	523.00	27.12	26.77	526.86	15.27	15.25	506.22	141.83	135.80
P1462_064_Zrn_A_1_MBD_0	539.90	21.41	21.37	206Pb/238U	122	1.00	0.59295	0.09266	0.08736	0.00361	472.75	59.94	58.22	539.90	21.41	21.37	158.70	317.41	344.64
P1462_064_Zrn_A_1_MBD_100	539.93	21.96	21.92	206Pb/238U	175	1.63	0.69401	0.04452	0.08736	0.00370	535.21	26.86	26.51	539.93	21.96	21.92	515.13	146.97	140.51
P1462_064_Zrn_A_1_MBD_70	548.60	27.10	27.04	206Pb/238U	124	1.01	0.69990	0.05921	0.08883	0.00457	538.73	35.68	35.06	548.60	27.10	27.04	497.18	195.81	184.51
P1462_064_Zrn_A_1_MBD_77	561.93	18.97	18.95	206Pb/238U	543	6.17	0.75117	0.05757	0.09108	0.00321	568.90	33.66	33.11	561.93	18.97	18.95	596.85	166.22	157.96
P1462_064_Zrn_A_1_MBD_104	582.70	25.57	25.52	206Pb/238U	121	1.62	0.74673	0.07075	0.09460	0.00434	566.32	41.55	40.71	582.70	25.57	25.52	501.08	205.54	193.12
P1462_064_Zrn_A_1_MBD_50	588.46	18.79	18.76	206Pb/238U	218	1.28	0.81429	0.06281	0.09558	0.00319	604.86	35.46	34.85	588.46	18.79	18.76	666.78	175.25	166.05



**Table 2.** U–Pb age data from the Cretaceous Colombian back–arc basin (*continued*).

Analysis name	Preferred age (Ma)	Sample GPS-510																	
		2 –sigma	2 +sigma	Age type	[U] (ppm)	U/Th	207Pb/235U Ratio	2 sigma	206Pb/238U Ratio	2 sigma	207Pb/235Uc age (Ma)	2 –sigma	2 +sigma	206Pb/238U age (Ma)	2 –sigma	2 +sigma	207Pb/206Pb age (Ma)	2 –sigma	2 +sigma
P1462_064_Zrn_A_1_MBD_33	606.07	18.42	18.39	206Pb/238U	157	1.44	0.81348	0.07638	0.09858	0.00314	604.40	43.22	42.32	606.07	18.42	18.39	598.15	204.29	191.95
P1462_064_Zrn_A_1_MBD_80	610.34	19.62	19.59	206Pb/238U	240	2.40	0.85239	0.07333	0.09931	0.00334	625.96	40.60	39.80	610.34	19.62	19.59	682.82	194.08	182.85
P1462_064_Zrn_A_1_MBD_75	614.25	29.25	29.18	206Pb/238U	304	2.30	0.84864	0.05766	0.09997	0.00498	623.90	31.92	31.43	614.25	29.25	29.18	659.06	130.42	125.26
P1462_064_Zrn_A_1_MBD_1	634.06	73.41	73.00	206Pb/238U	6	1.34	0.97477	0.39939	0.10336	0.01253	690.92	216.50	195.63	634.06	73.41	73.00	880.68	995.99	754.35
P1462_064_Zrn_A_1_MBD_5	636.99	26.13	26.08	206Pb/238U	115	5.34	0.82272	0.08194	0.10386	0.00447	609.57	46.17	45.14	636.99	26.13	26.08	508.91	219.79	205.64
P1462_064_Zrn_A_1_MBD_98	638.13	50.58	50.38	206Pb/238U	35	0.82	0.93492	0.16554	0.10405	0.00865	670.22	88.78	85.06	638.13	50.58	50.38	779.66	403.80	357.78
P1462_064_Zrn_A_1_MBD_38	647.15	18.50	18.47	206Pb/238U	222	16.69	0.90335	0.06318	0.10560	0.00317	653.51	33.99	33.43	647.15	18.50	18.47	675.55	148.64	141.97
P1462_064_Zrn_A_1_MBD_49	682.77	15.99	15.97	206Pb/238U	530	1.37	0.97461	0.04548	0.11173	0.00276	690.84	23.52	23.25	682.77	15.99	15.97	717.19	95.96	93.13
P1462_064_Zrn_A_1_MBD_107	893.35	40.41	40.28	206Pb/238U	89	2.00	1.42142	0.10781	0.14864	0.00719	897.96	45.72	44.71	893.35	40.41	40.28	909.32	163.91	155.72
P1462_064_Zrn_A_1_MBD_103	893.62	43.34	43.19	206Pb/238U	79	2.75	1.47214	0.16755	0.14869	0.00771	919.01	70.01	67.68	893.62	43.34	43.19	980.47	229.56	213.75
P1462_064_Zrn_A_1_MBD_106	901.95	27.05	27.00	206Pb/238U	137	1.80	1.42892	0.09580	0.15018	0.00482	901.10	40.45	39.66	901.95	27.05	27.00	899.01	140.85	134.76
P1462_064_Zrn_A_1_MBD_59	903.42	33.23	33.15	206Pb/238U	112	2.56	1.52379	0.11499	0.15044	0.00592	940.00	46.80	45.75	903.42	33.23	33.15	1026.74	151.19	144.15
P1462_064_Zrn_A_1_MBD_32	916.20	38.88	38.15	207Pb/235Uc	184	1.99	1.46531	0.09350	0.14932	0.00674	916.20	38.88	38.15	897.17	37.85	37.74	962.32	116.68	112.46
P1462_064_Zrn_A_1_MBD_16	917.70	32.98	32.90	206Pb/238U	85	3.27	1.51267	0.09104	0.15299	0.00589	935.52	37.13	36.46	917.70	32.98	32.90	977.72	102.85	99.55
P1462_064_Zrn_A_1_MBD_27	920.99	38.91	38.79	206Pb/238U	72	3.09	1.46665	0.11174	0.15358	0.00695	916.75	46.53	45.49	920.99	38.91	38.79	906.56	145.60	139.10
P1462_064_Zrn_A_1_MBD_54	922.76	55.08	54.85	206Pb/238U	27	0.83	1.34171	0.22691	0.15390	0.00984	863.97	100.85	96.08	922.76	55.08	54.85	716.01	385.23	343.28
P1462_064_Zrn_A_1_MBD_17	926.50	30.18	30.10	206Pb/238U	113	4.09	1.43982	0.12628	0.15456	0.00540	905.65	53.25	51.89	926.50	30.18	30.10	855.12	177.39	167.87
P1462_064_Zrn_A_1_MBD_19	933.40	44.68	44.52	206Pb/238U	51	3.73	1.54394	0.13850	0.15580	0.00800	948.08	56.05	54.54	933.40	44.68	44.52	982.30	168.90	160.18
P1462_064_Zrn_A_1_MBD_31	938.67	29.69	29.62	206Pb/238U	244	1.97	1.51576	0.09146	0.15675	0.00532	936.77	37.25	36.58	938.67	29.69	29.62	932.29	117.32	113.06
P1462_064_Zrn_A_1_MBD_96	941.19	38.91	38.79	206Pb/238U	147	2.47	1.50105	0.11855	0.15720	0.00697	930.81	48.71	47.57	941.19	38.91	38.79	906.33	160.66	152.79
P1462_064_Zrn_A_1_MBD_12	941.41	164.94	156.64	207Pb/206Pb	176	0.94	1.25408	0.37810	0.12911	0.03814	825.24	177.89	163.56	782.79	219.62	215.94	941.41	164.94	156.64
P1462_064_Zrn_A_1_MBD_99	945.93	33.97	33.88	206Pb/238U	97	2.41	1.50164	0.08979	0.15805	0.00609	931.05	36.77	36.12	945.93	33.97	33.88	895.99	116.49	112.30
P1462_064_Zrn_A_1_MBD_74	946.12	26.87	26.82	206Pb/238U	91	6.61	1.49026	0.12374	0.15808	0.00482	926.42	51.09	49.84	946.12	26.87	26.82	879.84	176.49	167.05
P1462_064_Zrn_A_1_MBD_78	946.66	30.58	30.51	206Pb/238U	250	137.95	1.60347	0.10216	0.15818	0.00549	971.56	40.24	39.46	946.66	30.58	30.51	1028.33	127.97	122.89
P1462_064_Zrn_A_1_MBD_10	947.19	45.96	45.79	206Pb/238U	47	2.46	1.57349	0.13555	0.15828	0.00824	959.80	54.20	52.79	947.19	45.96	45.79	988.82	159.47	151.67
P1462_064_Zrn_A_1_MBD_85	947.45	33.56	33.48	206Pb/238U	100	3.66	1.60656	0.10358	0.15832	0.00602	972.77	40.76	39.95	947.45	33.56	33.48	1030.39	135.95	130.23
P1462_064_Zrn_A_1_MBD_20	951.35	33.96	33.88	206Pb/238U	52	1.63	1.65491	0.14304	0.15902	0.00610	991.43	55.46	53.98	951.35	33.96	33.88	1081.22	171.26	162.26
P1462_064_Zrn_A_1_MBD_90	955.47	29.38	29.32	206Pb/238U	452	4.56	1.58617	0.08124	0.15976	0.00528	964.79	32.15	31.65	955.47	29.38	29.32	986.11	102.09	98.84
P1462_064_Zrn_A_1_MBD_62	956.25	30.80	30.73	206Pb/238U	95	1.88	1.53757	0.13894	0.15991	0.00554	945.53	56.37	54.85	956.25	30.80	30.73	920.65	184.05	173.79
P1462_064_Zrn_A_1_MBD_8	966.60	35.10	35.01	206Pb/238U	97	3.09	1.57903	0.12481	0.16177	0.00632	961.99	49.74	48.56	966.60	35.10	35.01	951.45	163.76	155.57
P1462_064_Zrn_A_1_MBD_48	969.67	33.41	33.33	206Pb/238U	77	1.88	1.59799	0.11270	0.16232	0.00602	969.42	44.53	43.57	969.67	33.41	33.33	968.87	151.07	144.07
P1462_064_Zrn_A_1_MBD_15	973.83	21.98	21.94	206Pb/238U	506	1.09	1.57669	0.06477	0.16307	0.00396	961.07	25.68	25.36	973.83	21.98	21.94	931.98	77.70	75.81
P1462_064_Zrn_A_1_MBD_73	978.73	23.02	22.98	206Pb/238U	260	3.04	1.61347	0.08079	0.16396	0.00415	975.46	31.64	31.15	978.73	23.02	22.98	968.09	105.68	102.20
P1462_064_Zrn_A_1_MBD_9	981.39	54.66	54.43	206Pb/238U	49	0.75	1.52729	0.15733	0.16444	0.00985	941.41	64.22	62.25	981.39	54.66	54.43	849.02	193.82	182.52
P1462_064_Zrn_A_1_MBD_2	996.78	39.43	39.31	206Pb/238U	84	3.45	1.53354	0.15880	0.16722	0.00713	943.92	64.66	62.67	996.78	39.43	39.31	822.56	219.59	205.20
P1462_064_Zrn_A_1_MBD_35	998.22	32.98	32.90	206Pb/238U	137	1.61	1.73900	0.11940	0.16748	0.00597	1023.09	44.75	43.79	998.22	32.98	32.90	1076.70	131.65	126.27
P1462_064_Zrn_A_1_MBD_84	1000.95	31.17	31.09	206Pb/238U	83	1.87	1.77510	0.13138	0.16798	0.00564	1036.39	48.65	47.51	1000.95	31.17	31.09	1111.92	148.57	141.74
P1462_064_Zrn_A_1_MBD_76	1001.84	30.93	30.85	206Pb/238U	183	3.85	1.79236	0.11444	0.16814	0.00560	1042.68	42.05	41.19	1001.84	30.93	30.85	1129.31	124.94	120.07
P1462_064_Zrn_A_1_MBD_79	1004.75	26.76	26.70	206Pb/238U	165	2.45	1.71620	0.08542	0.16867	0.00485	1014.60	32.19	31.68	1004.75	26.76	26.70	1035.93	99.28	96.19
P1462_064_Zrn_A_1_MBD_82	1008.06	29.66	29.59	206Pb/238U	158	1.83	1.71413	0.13424	0.16927	0.00537	1013.83	50.85	49.61	1008.06	29.66	29.59	1026.32	163.66	155.44
P1462_064_Zrn_A_1_MBD_97	1029.64	46.73	46.56	206Pb/238U	43	1.76	1.77412	0.13848	0.17319	0.00849	1036.03	51.33	50.06	1029.64	46.73	46.56	1049.53	149.41	142.53
P1462_064_Zrn_A_1_MBD_40	1031.61	56.78	55.24	207Pb/235Uc	55	1.98	1.76208	0.15232	0.17257	0.01016	1031.61	56.78	55.24	1026.23	56.00	55.76	1043.03	158.13	150.44

**Table 2.** U–Pb age data from the Cretaceous Colombian back–arc basin (*continued*).

Sample GPS–510																			
Analysis name	Preferred age (Ma)	2–sigma	2 +sigma	Age type	[U] (ppm)	U/Th	207Pb/235U Ratio	2 sigma	206Pb/238U Ratio	2 sigma	207Pb/235Uc age (Ma)	2–sigma	2 +sigma	206Pb/238U age (Ma)	2–sigma	2 +sigma	207Pb/206Pb age (Ma)	2–sigma	2 +sigma
P1462_064_Zrn_A_1_MBD_37	1058.17	64.60	64.28	206Pb/238U	59	2.09	2.06483	0.34913	0.17839	0.01178	1137.22	119.09	112.49	1058.17	64.60	64.28	1291.37	333.73	300.81
P1462_064_Zrn_A_1_MBD_102	1058.50	32.47	32.38	206Pb/238U	182	4.01	1.99869	0.10840	0.17845	0.00593	1115.07	37.04	36.38	1058.50	32.47	32.38	1227.07	111.42	107.51
P1462_064_Zrn_A_1_MBD_105	1066.88	32.53	32.45	206Pb/238U	187	1.76	1.93661	0.11358	0.17998	0.00595	1093.83	39.66	38.90	1066.88	32.53	32.45	1147.86	120.82	116.25
P1462_064_Zrn_A_1_MBD_43	1076.46	24.55	24.51	206Pb/238U	481	7.08	1.90770	0.08778	0.18174	0.00450	1083.78	30.89	30.43	1076.46	24.55	24.51	1098.53	87.74	85.31
P1462_064_Zrn_A_1_MBD_52	1076.77	38.44	38.32	206Pb/238U	160	1.32	2.02151	0.12161	0.18179	0.00704	1122.77	41.28	40.46	1076.77	38.44	38.32	1212.89	110.38	106.54
P1462_064_Zrn_A_1_MBD_3	1088.71	36.40	35.76	207Pb/235Uc	412	25.21	1.92184	0.10381	0.17834	0.00707	1088.71	36.40	35.76	1057.89	38.73	38.62	1150.90	93.68	90.91
P1462_064_Zrn_A_1_MBD_109	1096.96	32.53	32.45	206Pb/238U	220	3.20	2.02061	0.10953	0.18550	0.00598	1122.46	37.16	36.49	1096.96	32.53	32.45	1172.17	104.93	101.46
P1462_064_Zrn_A_1_MBD_92	1113.41	47.18	47.01	206Pb/238U	66	2.00	1.95996	0.15544	0.18853	0.00868	1101.87	54.04	52.64	1113.41	47.18	47.01	1079.14	143.36	137.00
P1462_064_Zrn_A_1_MBD_81	1115.85	37.39	37.28	206Pb/238U	177	2.02	2.01250	0.14094	0.18898	0.00689	1119.73	48.07	46.96	1115.85	37.39	37.28	1127.28	138.43	132.47
P1462_064_Zrn_A_1_MBD_69	1134.02	27.27	27.21	206Pb/238U	428	3.67	2.15864	0.09512	0.19234	0.00504	1167.84	30.81	30.35	1134.02	27.27	27.21	1231.09	85.92	83.57
P1462_064_Zrn_A_1_MBD_47	1139.37	39.41	39.29	206Pb/238U	60	1.15	2.13571	0.17192	0.19333	0.00728	1160.44	56.45	54.92	1139.37	39.41	39.29	1199.98	157.57	149.87
P1462_064_Zrn_A_1_MBD_4	1142.12	41.73	41.59	206Pb/238U	160	3.93	2.13130	0.14926	0.19384	0.00771	1159.01	48.99	47.83	1142.12	41.73	41.59	1190.72	126.43	121.43
P1462_064_Zrn_A_1_MBD_83	1184.85	37.26	37.15	206Pb/238U	94	3.15	2.21885	0.17276	0.20178	0.00694	1187.01	55.24	53.78	1184.85	37.26	37.15	1190.94	158.22	150.46
P1462_064_Zrn_A_1_MBD_63	1187.90	68.13	65.92	207Pb/235Uc	208	1.06	2.22169	0.21258	0.19572	0.01462	1187.90	68.13	65.92	1152.29	79.05	78.57	1253.31	132.67	127.16
P1462_064_Zrn_A_1_MBD_14	1192.45	51.39	51.19	206Pb/238U	67	4.59	2.26486	0.22379	0.20319	0.00957	1201.42	70.82	68.43	1192.45	51.39	51.19	1217.59	187.89	177.03
P1462_064_Zrn_A_1_MBD_86	1202.83	42.02	41.88	206Pb/238U	69	1.92	2.20546	0.14286	0.20513	0.00784	1182.77	45.77	44.76	1202.83	42.02	41.88	1146.28	129.51	124.28
P1462_064_Zrn_A_1_MBD_93	1256.63	48.46	47.33	207Pb/235Uc	231	1.08	2.44732	0.16258	0.20834	0.01003	1256.63	48.46	47.33	1219.98	53.60	53.38	1319.97	112.98	108.94
P1462_064_Zrn_A_1_MBD_11	1278.72	34.37	33.80	207Pb/235Uc	796	2.18	2.52310	0.11825	0.21087	0.00658	1278.72	34.37	33.80	1233.47	35.08	34.98	1355.58	80.93	78.83
P1462_064_Zrn_A_1_MBD_29	1283.85	84.98	84.42	206Pb/238U	154	1.76	2.75455	1.14546	0.22037	0.01603	1343.32	336.12	288.31	1283.85	84.98	84.42	1439.36	922.00	706.06
P1462_064_Zrn_A_1_MBD_95	1295.03	71.13	68.73	207Pb/235Uc	64	1.37	2.58016	0.24647	0.22708	0.01670	1295.03	71.13	68.73	1319.19	88.03	87.43	1255.20	153.35	146.03
P1462_064_Zrn_A_1_MBD_68	1298.96	31.32	30.84	207Pb/235Uc	465	1.66	2.59407	0.11000	0.21901	0.00663	1298.96	31.32	30.84	1276.66	35.13	35.03	1336.01	79.61	77.59
P1462_064_Zrn_A_1_MBD_108	1322.81	32.28	31.77	207Pb/235Uc	285	1.87	2.67945	0.11605	0.22546	0.00707	1322.81	32.28	31.77	1310.66	37.27	37.16	1342.54	83.14	80.93
P1462_064_Zrn_A_1_MBD_61	1332.43	49.97	49.77	206Pb/238U	52	1.03	2.71932	0.21680	0.22961	0.00951	1333.75	60.07	58.34	1332.43	49.97	49.77	1335.86	153.07	145.74
P1462_064_Zrn_A_1_MBD_46	1421.95	34.89	34.30	207Pb/235Uc	618	3.51	3.05683	0.13821	0.24065	0.00708	1421.95	34.89	34.30	1390.07	36.85	36.74	1470.00	79.58	77.54
P1462_064_Zrn_A_1_MBD_89	1438.31	93.83	93.15	206Pb/238U	69	1.80	3.48464	0.56402	0.24997	0.01813	1523.74	131.89	123.85	1438.31	93.83	93.15	1644.49	334.44	300.84
P1462_064_Zrn_A_1_MBD_21	1464.76	47.88	46.77	207Pb/235Uc	99	1.48	3.23157	0.19719	0.25434	0.01241	1464.76	47.88	46.77	1460.84	63.95	63.64	1470.46	90.31	87.69
P1462_064_Zrn_A_1_MBD_44	1479.42	34.91	34.32	207Pb/235Uc	274	3.67	3.29309	0.14633	0.25599	0.00681	1479.42	34.91	34.32	1469.31	35.01	34.92	1493.95	79.78	77.73
P1462_064_Zrn_A_1_MBD_65	1533.03	41.33	40.51	207Pb/235Uc	106	2.28	3.52583	0.18235	0.26301	0.00875	1533.03	41.33	40.51	1505.24	44.75	44.59	1571.57	88.48	85.95
P1462_064_Zrn_A_1_MBD_26	1533.22	40.47	39.68	207Pb/235Uc	173	2.35	3.52670	0.17865	0.26843	0.01041	1533.22	40.47	39.68	1532.83	53.01	52.79	1533.77	86.37	83.97
P1462_064_Zrn_A_1_MBD_56	1550.55	60.16	58.43	207Pb/235Uc	101	1.84	3.60460	0.26882	0.25889	0.01631	1550.55	60.16	58.43	1484.18	83.77	83.23	1642.20	92.33	89.57
P1462_064_Zrn_A_1_MBD_91	1730.56	39.12	38.38	207Pb/235Uc	228	1.52	4.49777	0.20980	0.30843	0.01043	1730.56	39.12	38.38	1732.98	51.49	51.29	1727.63	78.72	76.70
P1462_064_Zrn_A_1_MBD_39	1785.27	45.50	44.50	207Pb/235Uc	591	2.67	4.80212	0.25709	0.31251	0.01257	1785.27	45.50	44.50	1753.04	61.88	61.58	1823.16	85.68	83.28

  

Sample GPS–511																			
Analysis name	Preferred age (Ma)	2–sigma	2 +sigma	Age type	[U] (ppm)	U/Th	207Pb/235U Ratio	2 sigma	206Pb/238U Ratio	2 sigma	207Pb/235Uc age (Ma)	2–sigma	2 +sigma	206Pb/238U age (Ma)	2–sigma	2 +sigma	207Pb/206Pb age (Ma)	2–sigma	2 +sigma
P1462_019_Zrn_A_1_MBD_24	310.73	11.73	11.71	206Pb/238U	1332	1.24	0.37173	0.02563	0.04938	0.00191	320.93	19.06	18.89	310.73	11.73	11.71	395.69	150.67	143.94
P1462_019_Zrn_A_1_MBD_57	317.19	19.46	19.43	206Pb/238U	1505	4.54	0.37864	0.03107	0.05044	0.00317	326.04	23.01	22.76	317.19	19.46	19.43	389.66	163.02	155.16
P1462_019_Zrn_A_1_MBD_40	331.10	12.21	12.20	206Pb/238U	1476	9.61	0.40886	0.02270	0.05270	0.00199	348.06	16.43	16.30	331.10	12.21	12.20	462.80	120.32	115.97
P1462_019_Zrn_A_1_MBD_7	333.53	58.43	56.80	207Pb/235Uc	1533	1.63	0.38885	0.07878	0.04999	0.00974	333.53	58.43	56.80	314.47	59.95	59.68	468.71	286.89	263.30
P1462_019_Zrn_A_1_MBD_34	334.05	16.55	16.52	206Pb/238U	442	1.86	0.40049	0.02783	0.05319	0.00270	342.00	20.28	20.08	334.05	16.55	16.52	396.37	147.45	140.99
P1462_019_Zrn_A_1_MBD_0	353.87	18.87	18.84	206Pb/238U	229	1.39	0.42274	0.04146	0.05643	0.00309	358.01	29.80	29.37	353.87	18.87	18.84	384.97	215.99	202.42

**Table 2.** U–Pb age data from the Cretaceous Colombian back–arc basin (*continued*).

Analysis name	Preferred age (Ma)	Sample GPS–511																	
		2–sigma	2 +sigma	Age type	[U] (ppm)	U/Th	207Pb/235U Ratio	2 sigma	206Pb/238U Ratio	2 sigma	207Pb/235Uc age (Ma)	2–sigma	2 +sigma	206Pb/238U age (Ma)	2–sigma	2 +sigma	207Pb/206Pb age (Ma)	2–sigma	2 +sigma
P1462_019_Zrn_A_1_MBD_5	357.75	15.39	15.37	206Pb/238U	712	1.71	0.45066	0.04790	0.05707	0.00252	377.74	33.81	33.25	357.75	15.39	15.37	502.21	244.07	226.75
P1462_019_Zrn_A_1_MBD_35	380.93	34.39	34.29	206Pb/238U	27	1.73	0.62224	0.14252	0.06087	0.00565	491.25	91.22	87.30	380.93	34.39	34.29	1045.22	487.15	420.80
P1462_019_Zrn_A_1_MBD_43	394.44	15.53	15.51	206Pb/238U	1375	1.63	0.47005	0.02474	0.06310	0.00256	391.22	17.16	17.02	394.44	15.53	15.51	372.25	100.74	97.68
P1462_019_Zrn_A_1_MBD_60	394.67	13.64	13.63	206Pb/238U	542	2.58	0.46762	0.02331	0.06314	0.00225	389.55	16.19	16.07	394.67	13.64	13.63	359.25	104.18	100.92
P1462_019_Zrn_A_1_MBD_10	404.84	17.01	16.99	206Pb/238U	557	1.84	0.49722	0.02742	0.06482	0.00281	409.82	18.68	18.51	404.84	17.01	16.99	437.95	126.53	121.73
P1462_019_Zrn_A_1_MBD_79	404.89	13.59	13.57	206Pb/238U	393	2.34	0.46848	0.03158	0.06482	0.00224	390.14	21.96	21.72	404.89	13.59	13.57	303.62	152.08	145.26
P1462_019_Zrn_A_1_MBD_59	410.31	15.72	15.70	206Pb/238U	349	1.90	0.50606	0.04357	0.06572	0.00260	415.79	29.59	29.16	410.31	15.72	15.70	446.37	193.53	182.52
P1462_019_Zrn_A_1_MBD_9	420.91	18.29	18.26	206Pb/238U	373	3.40	0.50329	0.03134	0.06747	0.00303	413.93	21.28	21.06	420.91	18.29	18.26	375.18	139.18	133.41
P1462_019_Zrn_A_1_MBD_19	421.57	15.24	15.22	206Pb/238U	990	1.12	0.52526	0.02608	0.06758	0.00252	428.66	17.44	17.29	421.57	15.24	15.22	466.97	95.90	93.11
P1462_019_Zrn_A_1_MBD_93	429.13	18.60	18.58	206Pb/238U	451	0.64	0.54402	0.03113	0.06883	0.00308	441.07	20.58	20.37	429.13	18.60	18.58	503.87	100.45	97.39
P1462_019_Zrn_A_1_MBD_30	441.52	16.89	16.87	206Pb/238U	280	1.10	0.56090	0.03816	0.07089	0.00280	452.11	24.98	24.67	441.52	16.89	16.87	506.34	154.28	147.17
P1462_019_Zrn_A_1_MBD_38	463.38	20.22	20.18	206Pb/238U	687	1.57	0.63226	0.03722	0.07453	0.00337	497.50	23.29	23.02	463.38	20.22	20.18	657.73	126.95	122.06
P1462_019_Zrn_A_1_MBD_2	466.11	21.77	21.74	206Pb/238U	542	0.58	0.56958	0.03388	0.07498	0.00363	457.74	22.03	21.80	466.11	21.77	21.74	415.97	110.63	106.95
P1462_019_Zrn_A_1_MBD_81	473.26	23.92	23.88	206Pb/238U	121	2.16	0.59486	0.05498	0.07618	0.00399	473.97	35.31	34.70	473.26	23.92	23.88	477.41	216.69	202.95
P1462_019_Zrn_A_1_MBD_62	488.50	34.32	34.23	206Pb/238U	89	2.53	0.62620	0.07121	0.07872	0.00574	493.73	44.96	43.98	488.50	34.32	34.23	518.08	264.83	244.54
P1462_019_Zrn_A_1_MBD_11	493.12	20.51	20.48	206Pb/238U	186	0.97	0.63924	0.04792	0.07950	0.00343	501.84	29.90	29.47	493.12	20.51	20.48	541.78	151.78	144.88
P1462_019_Zrn_A_1_MBD_39	511.93	19.57	19.54	206Pb/238U	340	1.94	0.65672	0.04051	0.08265	0.00328	512.61	24.98	24.68	511.93	19.57	19.54	515.64	133.04	127.72
P1462_019_Zrn_A_1_MBD_102	512.50	18.72	18.69	206Pb/238U	309	2.97	0.66356	0.04194	0.08275	0.00314	516.79	25.76	25.44	512.50	18.72	18.69	535.81	132.71	127.41
P1462_019_Zrn_A_1_MBD_61	523.45	24.83	24.78	206Pb/238U	97	0.91	0.69345	0.09101	0.08459	0.00417	534.87	55.32	53.85	523.45	24.83	24.78	583.87	296.78	271.44
P1462_019_Zrn_A_1_MBD_51	526.18	19.30	19.27	206Pb/238U	108	1.74	0.68622	0.05610	0.08505	0.00325	530.53	34.06	33.50	526.18	19.30	19.27	549.26	180.80	171.09
P1462_019_Zrn_A_1_MBD_64	534.39	32.82	32.73	206Pb/238U	59	1.09	0.81932	0.13280	0.08643	0.00552	607.67	75.50	72.80	534.39	32.82	32.73	891.33	353.45	317.47
P1462_019_Zrn_A_1_MBD_32	536.70	18.84	18.81	206Pb/238U	348	1.75	0.70522	0.04256	0.08682	0.00317	541.90	25.50	25.18	536.70	18.84	18.81	563.87	124.84	120.13
P1462_019_Zrn_A_1_MBD_54	536.92	30.13	30.06	206Pb/238U	117	1.46	0.71265	0.05230	0.08686	0.00507	546.32	31.24	30.77	536.92	30.13	30.06	585.72	151.67	144.76
P1462_019_Zrn_A_1_MBD_76	540.73	15.30	15.28	206Pb/238U	307	2.44	0.71343	0.04200	0.08750	0.00258	546.78	25.04	24.74	540.73	15.30	15.28	572.08	125.98	121.18
P1462_019_Zrn_A_1_MBD_96	546.26	21.77	21.73	206Pb/238U	233	1.12	0.73466	0.06450	0.08843	0.00367	559.28	38.11	37.41	546.26	21.77	21.73	612.62	190.78	179.96
P1462_019_Zrn_A_1_MBD_31	547.69	18.09	18.07	206Pb/238U	775	2.93	0.70552	0.03505	0.08867	0.00305	542.09	20.97	20.76	547.69	18.09	18.07	518.60	101.42	98.29
P1462_019_Zrn_A_1_MBD_22	555.12	20.06	20.03	206Pb/238U	116	2.31	0.69650	0.07295	0.08993	0.00339	536.70	44.14	43.20	555.12	20.06	20.03	459.15	241.41	224.50
P1462_019_Zrn_A_1_MBD_20	555.50	18.62	18.59	206Pb/238U	571	2.57	0.73996	0.04334	0.08999	0.00315	562.38	25.45	25.13	555.50	18.62	18.59	590.34	125.09	120.35
P1462_019_Zrn_A_1_MBD_28	557.30	29.45	29.03	207Pb/235Uc	1384	0.87	0.73127	0.04986	0.08562	0.00542	557.30	29.45	29.03	529.61	32.20	32.12	672.09	128.03	123.05
P1462_019_Zrn_A_1_MBD_90	591.90	22.92	22.87	206Pb/238U	129	1.69	0.79706	0.05897	0.09617	0.00389	595.17	33.60	33.05	591.90	22.92	22.87	607.65	151.81	144.89
P1462_019_Zrn_A_1_MBD_89	593.85	21.52	21.48	206Pb/238U	356	2.09	0.77586	0.04521	0.09650	0.00366	583.12	26.01	25.68	593.85	21.52	21.48	541.54	117.32	113.16
P1462_019_Zrn_A_1_MBD_8	598.77	32.13	32.05	206Pb/238U	84	1.58	0.80747	0.09656	0.09733	0.00546	601.04	54.98	53.53	598.77	32.13	32.05	609.61	275.10	253.16
P1462_019_Zrn_A_1_MBD_23	599.07	20.29	20.26	206Pb/238U	246	2.36	0.85341	0.05333	0.09739	0.00345	626.52	29.43	29.01	599.07	20.29	20.26	726.92	132.85	127.48
P1462_019_Zrn_A_1_MBD_48	601.27	18.56	18.53	206Pb/238U	392	1.41	0.80686	0.05036	0.09776	0.00316	600.69	28.50	28.11	601.27	18.56	18.53	598.53	131.36	126.14
P1462_019_Zrn_A_1_MBD_83	603.41	25.40	25.35	206Pb/238U	93	2.82	0.77316	0.07564	0.09813	0.00432	581.58	43.78	42.86	603.41	25.40	25.35	497.18	219.49	205.39
P1462_019_Zrn_A_1_MBD_1	612.30	27.55	27.18	207Pb/235Uc	352	2.81	0.82764	0.04925	0.10281	0.00496	612.30	27.55	27.18	630.87	29.03	28.97	544.22	119.82	115.48
P1462_019_Zrn_A_1_MBD_94	613.38	18.26	18.24	206Pb/238U	239	1.56	0.81297	0.04343	0.09982	0.00311	604.12	24.47	24.18	613.38	18.26	18.24	569.52	110.17	106.49
P1462_019_Zrn_A_1_MBD_16	626.28	36.85	36.75	206Pb/238U	33	0.50	0.86280	0.07925	0.10203	0.00629	631.65	43.66	42.75	626.28	36.85	36.75	650.90	188.64	178.03
P1462_019_Zrn_A_1_MBD_66	650.45	19.89	19.86	206Pb/238U	207	1.67	0.92200	0.06288	0.10617	0.00341	663.42	33.49	32.95	650.45	19.89	19.86	707.72	140.80	134.79
P1462_019_Zrn_A_1_MBD_25	674.08	53.79	53.56	206Pb/238U	14	1.11	0.99881	0.19221	0.11023	0.00924	703.20	100.06	95.36	674.08	53.79	53.56	797.40	431.57	379.36
P1462_019_Zrn_A_1_MBD_87	675.92	18.50	18.48	206Pb/238U	1075	1.20	0.96125	0.04276	0.11055	0.00319	683.94	22.26	22.02	675.92	18.50	18.48	710.44	85.68	83.41
P1462_019_Zrn_A_1_MBD_6	682.95	24.92	24.87	206Pb/238U	277	1.41	0.91505	0.06005	0.11176	0.00429	659.74	32.09	31.59	682.95	24.92	24.87	581.19	145.66	139.28

**Table 2.** U–Pb age data from the Cretaceous Colombian back–arc basin (*continued*).

Analysis name	Preferred age (Ma)	Sample GPS–511																	
		2 –sigma	2 +sigma	Age type	[U] (ppm)	U/Th	207Pb/235U Ratio	2 sigma	206Pb/238U Ratio	2 sigma	207Pb/235Uc age (Ma)	2 –sigma	2 +sigma	206Pb/238U age (Ma)	2 –sigma	2 +sigma	207Pb/206Pb age (Ma)	2 –sigma	2 +sigma
P1462_019_Zrn_A_1_MBD_47	701.64	22.73	22.69	206Pb/238U	529	3.33	0.97854	0.05661	0.11499	0.00393	692.85	29.26	28.85	701.64	22.73	22.69	664.43	118.38	114.12
P1462_019_Zrn_A_1_MBD_99	731.55	19.64	19.61	206Pb/238U	1213	1.13	1.07149	0.04179	0.12017	0.00341	739.47	20.59	20.38	731.55	19.64	19.61	763.55	71.03	69.46
P1462_019_Zrn_A_1_MBD_58	737.12	35.32	35.23	206Pb/238U	78	0.83	1.14354	0.10952	0.12114	0.00613	774.19	52.55	51.23	737.12	35.32	35.23	882.64	192.20	181.05
P1462_019_Zrn_A_1_MBD_26	755.49	39.08	38.34	207Pb/235Uc	160	2.19	1.10443	0.08022	0.12018	0.00691	755.49	39.08	38.34	731.61	39.82	39.70	826.83	137.65	131.86
P1462_019_Zrn_A_1_MBD_4	764.56	39.50	39.38	206Pb/238U	58	0.37	1.08228	0.11810	0.12592	0.00689	744.74	58.42	56.79	764.56	39.50	39.38	685.64	243.62	226.18
P1462_019_Zrn_A_1_MBD_75	769.60	24.37	24.32	206Pb/238U	116	1.06	1.14502	0.07033	0.12680	0.00426	774.89	33.57	33.02	769.60	24.37	24.32	790.13	124.72	119.95
P1462_019_Zrn_A_1_MBD_84	779.34	23.86	23.82	206Pb/238U	476	1.36	1.22872	0.07035	0.12851	0.00417	813.76	32.31	31.80	779.34	23.86	23.82	909.09	114.12	110.09
P1462_019_Zrn_A_1_MBD_14	782.12	31.66	31.58	206Pb/238U	109	2.34	1.19480	0.08618	0.12899	0.00554	798.19	40.27	39.49	782.12	31.66	31.58	843.32	147.82	141.15
P1462_019_Zrn_A_1_MBD_86	805.86	37.64	37.53	206Pb/238U	86	1.77	1.24915	0.08696	0.13316	0.00661	823.02	39.64	38.88	805.86	37.64	37.53	869.69	130.51	125.28
P1462_019_Zrn_A_1_MBD_17	869.95	30.12	30.05	206Pb/238U	388	6.02	1.39779	0.08021	0.14448	0.00534	888.00	34.26	33.69	869.95	30.12	30.05	933.22	111.08	107.26
P1462_019_Zrn_A_1_MBD_37	896.78	34.81	34.22	207Pb/235Uc	338	5.68	1.41862	0.08221	0.14805	0.00653	896.78	34.81	34.22	890.01	36.74	36.64	913.50	94.70	91.91
P1462_019_Zrn_A_1_MBD_65	911.08	28.11	28.05	206Pb/238U	140	2.24	1.51765	0.10356	0.15181	0.00502	937.53	42.20	41.34	911.08	28.11	28.05	1000.22	134.43	128.85
P1462_019_Zrn_A_1_MBD_27	952.12	38.99	38.87	206Pb/238U	58	3.16	1.52417	0.15206	0.15916	0.00700	940.16	62.11	60.26	952.12	38.99	38.87	912.24	209.17	196.02
P1462_019_Zrn_A_1_MBD_98	970.16	37.80	37.69	206Pb/238U	39	1.62	1.73742	0.20611	0.16241	0.00681	1022.51	77.93	75.05	970.16	37.80	37.69	1136.33	243.71	225.82
P1462_019_Zrn_A_1_MBD_104	975.47	43.32	43.18	206Pb/238U	46	0.29	1.67364	0.14583	0.16337	0.00781	998.57	56.15	54.64	975.47	43.32	43.18	1049.65	176.45	166.92
P1462_019_Zrn_A_1_MBD_72	986.48	26.28	26.23	206Pb/238U	142	3.32	1.72269	0.11291	0.16536	0.00475	1017.03	42.55	41.68	986.48	26.28	26.23	1083.40	131.01	125.67
P1462_019_Zrn_A_1_MBD_63	986.64	34.86	34.77	206Pb/238U	89	4.64	1.63908	0.10800	0.16539	0.00629	985.36	41.98	41.13	986.64	34.86	34.77	982.52	127.49	122.46
P1462_019_Zrn_A_1_MBD_21	996.30	37.80	37.69	206Pb/238U	108	1.94	1.62638	0.11291	0.16713	0.00683	980.46	44.13	43.19	996.30	37.80	37.69	945.16	138.61	132.70
P1462_019_Zrn_A_1_MBD_91	1001.72	46.48	46.31	206Pb/238U	55	4.17	1.83817	0.16479	0.16812	0.00841	1059.21	59.83	58.12	1001.72	46.48	46.31	1179.65	165.37	156.92
P1462_019_Zrn_A_1_MBD_41	1006.49	33.47	32.93	207Pb/235Uc	401	4.59	1.69459	0.08810	0.16291	0.00596	1006.49	33.47	32.93	972.94	33.08	32.99	1080.29	103.01	99.68
P1462_019_Zrn_A_1_MBD_95	1015.23	34.41	34.31	206Pb/238U	69	1.78	1.71977	0.13178	0.17057	0.00624	1015.94	49.80	48.61	1015.23	34.41	34.31	1017.48	151.62	144.55
P1462_019_Zrn_A_1_MBD_109	1017.50	34.44	34.35	206Pb/238U	153	2.55	1.72035	0.11296	0.17098	0.00625	1016.16	42.61	41.73	1017.50	34.44	34.35	1013.26	123.83	119.07
P1462_019_Zrn_A_1_MBD_100	1027.55	49.69	49.50	206Pb/238U	37	2.78	1.80833	0.17856	0.17281	0.00902	1048.48	65.61	63.56	1027.55	49.69	49.50	1092.33	185.13	174.65
P1462_019_Zrn_A_1_MBD_44	1033.67	46.04	45.88	206Pb/238U	43	0.42	1.76443	0.16256	0.17392	0.00837	1032.48	60.60	58.85	1033.67	46.04	45.88	1029.96	183.27	173.03
P1462_019_Zrn_A_1_MBD_49	1040.55	40.02	39.24	207Pb/235Uc	180	3.04	1.78648	0.10874	0.17433	0.00739	1040.55	40.02	39.24	1035.90	40.64	40.51	1050.30	106.30	102.76
P1462_019_Zrn_A_1_MBD_106	1138.34	37.93	37.82	206Pb/238U	103	3.84	2.15883	0.14049	0.19314	0.00701	1167.90	45.67	44.66	1138.34	37.93	37.82	1223.11	123.77	118.96
P1462_019_Zrn_A_1_MBD_55	1139.71	29.77	29.34	207Pb/235Uc	718	4.40	2.07235	0.08941	0.18987	0.00710	1139.71	29.77	29.34	1120.68	38.54	38.43	1176.12	73.45	71.73
P1462_019_Zrn_A_1_MBD_80	1168.20	38.25	38.14	206Pb/238U	192	0.85	2.09218	0.12871	0.19867	0.00710	1146.24	42.71	41.83	1168.20	38.25	38.14	1104.94	112.96	108.97
P1462_019_Zrn_A_1_MBD_68	1182.15	29.66	29.24	207Pb/235Uc	284	3.66	2.20349	0.09291	0.19786	0.00640	1182.15	29.66	29.24	1163.80	34.47	34.38	1215.89	72.22	70.56
P1462_019_Zrn_A_1_MBD_12	1195.09	32.90	32.38	207Pb/235Uc	141	2.66	2.24456	0.10429	0.20033	0.00692	1195.09	32.90	32.38	1177.07	37.22	37.11	1227.82	86.18	83.82
P1462_019_Zrn_A_1_MBD_85	1230.73	46.41	45.38	207Pb/235Uc	91	1.93	2.36049	0.15187	0.21599	0.00996	1230.73	46.41	45.38	1260.66	52.92	52.71	1178.68	118.48	114.08
P1462_019_Zrn_A_1_MBD_108	1248.01	38.28	37.57	207Pb/235Uc	201	2.59	2.41814	0.12766	0.21270	0.00738	1248.01	38.28	37.57	1243.20	39.27	39.15	1256.30	101.06	97.83
P1462_019_Zrn_A_1_MBD_77	1299.83	36.14	35.51	207Pb/235Uc	234	1.84	2.59714	0.12689	0.22135	0.00691	1299.83	36.14	35.51	1289.00	36.50	36.40	1317.76	92.46	89.73
P1462_019_Zrn_A_1_MBD_33	1319.32	42.99	42.10	207Pb/235Uc	173	1.43	2.66686	0.15362	0.22760	0.01026	1319.32	42.99	42.10	1321.89	53.99	53.76	1315.16	104.47	101.01
P1462_019_Zrn_A_1_MBD_3	1322.22	52.86	51.52	207Pb/235Uc	73	2.86	2.67734	0.18898	0.22487	0.01151	1322.22	52.86	51.52	1307.53	60.70	60.41	1346.11	140.12	133.95
P1462_019_Zrn_A_1_MBD_70	1383.87	33.12	32.59	207Pb/235Uc	821	3.60	2.90754	0.12644	0.23542	0.00707	1383.87	33.12	32.59	1362.82	36.93	36.82	1416.50	72.55	70.85
P1462_019_Zrn_A_1_MBD_105	1428.65	36.85	36.20	207Pb/235Uc	467	2.44	3.08371	0.14688	0.24183	0.00793	1428.65	36.85	36.20	1396.18	41.21	41.08	1477.35	86.01	83.63
P1462_019_Zrn_A_1_MBD_82	1469.60	40.75	39.95	207Pb/235Uc	140	2.73	3.25178	0.16893	0.25090	0.01005	1469.60	40.75	39.95	1443.14	51.92	51.71	1508.05	82.19	80.01
P1462_019_Zrn_A_1_MBD_56	1482.57	37.22	36.55	207Pb/235Uc	307	4.51	3.30641	0.15640	0.25878	0.00986	1482.57	37.22	36.55	1483.62	50.57	50.37	1481.06	77.76	75.81
P1462_019_Zrn_A_1_MBD_53	1505.78	32.65	32.14	207Pb/235Uc	197	3.09	3.40601	0.14055	0.26203	0.00875	1505.78	32.65	32.14	1500.22	44.76	44.60	1513.61	66.55	65.12
P1462_019_Zrn_A_1_MBD_73	1512.02	41.71	40.87	207Pb/235Uc	117	1.86	3.43314	0.18024	0.25920	0.00978	1512.02	41.71	40.87	1485.77	50.19	49.99	1548.97	99.48	96.30
P1462_019_Zrn_A_1_MBD_71	1662.38	34.49	33.91	207Pb/235Uc	745	1.73	4.14075	0.17312	0.28516	0.00874	1662.38	34.49	33.91	1617.30	43.89	43.74	1719.82	67.38	65.89

**Table 2.** U–Pb age data from the Cretaceous Colombian back–arc basin (*continued*).

Sample GPS–511																			
Analysis name	Preferred age (Ma)	2–sigma	2 +sigma	Age type	[U] (ppm)	U/Th	207Pb/235U Ratio	2 sigma	206Pb/238U Ratio	2 sigma	207Pb/235Uc age (Ma)	2–sigma	2 +sigma	206Pb/238U age (Ma)	2–sigma	2 +sigma	207Pb/206Pb age (Ma)	2–sigma	2 +sigma
P1462_019_Zrn_A_1_MBD_78	1865.13	36.51	35.87	207Pb/235Uc	145	1.01	5.27685	0.22370	0.33541	0.00999	1865.13	36.51	35.87	1864.56	48.34	48.16	1865.75	69.70	68.10
P1462_019_Zrn_A_1_MBD_107	1906.27	44.38	43.43	207Pb/235Uc	901	0.99	5.53639	0.28258	0.32965	0.01368	1906.27	44.38	43.43	1836.68	66.50	66.16	1982.87	79.97	77.85
P1462_019_Zrn_A_1_MBD_50	1943.40	52.40	51.08	207Pb/235Uc	112	3.13	5.77986	0.34541	0.34488	0.01441	1943.40	52.40	51.08	1910.12	69.26	68.89	1979.06	90.09	87.42
P1462_019_Zrn_A_1_MBD_36	1987.35	52.58	51.25	207Pb/235Uc	392	2.92	6.07976	0.36189	0.34381	0.01597	1987.35	52.58	51.25	1904.95	76.82	76.36	2074.19	92.28	89.47
P1462_019_Zrn_A_1_MBD_88	2074.93	44.29	43.35	207Pb/235Uc	133	0.76	6.71756	0.33301	0.37339	0.01550	2074.93	44.29	43.35	2045.34	72.94	72.53	2104.44	72.40	70.66
P1462_019_Zrn_A_1_MBD_15	2179.79	68.90	66.63	207Pb/235Uc	15	1.17	7.55716	0.57088	0.39058	0.02463	2179.79	68.90	66.63	2125.52	114.68	113.67	2231.27	121.94	117.04
P1462_019_Zrn_A_1_MBD_103	2773.66	47.70	46.61	207Pb/235Uc	66	0.70	14.35804	0.71314	0.52603	0.02041	2773.66	47.70	46.61	2724.69	86.51	85.94	2809.48	61.30	60.01
P1462_019_Zrn_A_1_MBD_97	3521.20	39.93	39.16	207Pb/235Uc	311	1.46	31.06776	1.24874	0.71381	0.02173	3521.20	39.93	39.16	3472.81	82.00	81.48	3548.84	49.62	48.75
Sample GPS–518																			
Analysis name	Preferred age (Ma)	2–sigma	2 +sigma	Age type	[U] (ppm)	U/Th	207Pb/235U Ratio	2 sigma	206Pb/238U Ratio	2 sigma	207Pb/235Uc age (Ma)	2–sigma	2 +sigma	206Pb/238U age (Ma)	2–sigma	2 +sigma	207Pb/206Pb age (Ma)	2–sigma	2 +sigma
P1462_066_Zrn_A_1_MBD_95	334.71	12.21	12.20	206Pb/238U	290	3.95	0.38037	0.03626	0.05329	0.00199	327.31	26.85	26.50	334.71	12.21	12.20	275.02	220.28	206.28
P1462_066_Zrn_A_1_MBD_5	371.91	9.19	9.18	206Pb/238U	518	2.17	0.46225	0.03217	0.05939	0.00151	385.82	22.47	22.22	371.91	9.19	9.18	470.13	159.71	152.13
P1462_066_Zrn_A_1_MBD_63	396.10	12.29	12.27	206Pb/238U	432	1.44	0.49029	0.03319	0.06337	0.00203	405.11	22.74	22.49	396.10	12.29	12.27	456.79	146.42	140.02
P1462_066_Zrn_A_1_MBD_72	415.54	22.01	21.97	206Pb/238U	516	3.41	0.52423	0.03592	0.06658	0.00364	427.97	24.07	23.79	415.54	22.01	21.97	495.49	125.85	121.09
P1462_066_Zrn_A_1_MBD_12	420.15	11.98	11.97	206Pb/238U	558	1.87	0.53552	0.03253	0.06735	0.00198	435.47	21.63	21.40	420.15	11.98	11.97	517.31	138.93	133.13
P1462_066_Zrn_A_1_MBD_54	436.74	16.66	16.64	206Pb/238U	76	1.22	0.55063	0.09559	0.07010	0.00276	445.41	63.58	61.65	436.74	16.66	16.64	490.42	407.43	361.37
P1462_066_Zrn_A_1_MBD_96	466.23	35.25	35.15	206Pb/238U	42	1.66	0.58506	0.08241	0.07500	0.00587	467.71	53.49	52.12	466.23	35.25	35.15	474.99	331.68	300.53
P1462_066_Zrn_A_1_MBD_73	534.26	18.19	18.16	206Pb/238U	326	1.55	0.67550	0.05371	0.08641	0.00306	524.05	32.81	32.29	534.26	18.19	18.16	479.81	179.47	169.94
P1462_066_Zrn_A_1_MBD_19	544.95	16.37	16.35	206Pb/238U	107	1.43	0.64098	0.08656	0.08821	0.00276	502.91	54.28	52.87	544.95	16.37	16.35	315.92	323.25	293.88
P1462_066_Zrn_A_1_MBD_18	547.62	15.52	15.51	206Pb/238U	448	1.18	0.70622	0.04553	0.08866	0.00262	542.50	27.28	26.92	547.62	15.52	15.51	521.06	143.17	137.03
P1462_066_Zrn_A_1_MBD_66	562.99	21.46	21.42	206Pb/238U	113	3.90	0.74516	0.08846	0.09126	0.00363	565.41	52.13	50.83	562.99	21.46	21.42	575.15	270.86	249.61
P1462_066_Zrn_A_1_MBD_34	596.31	44.57	44.41	206Pb/238U	44	1.10	0.75217	0.12964	0.09692	0.00757	569.48	76.55	73.77	596.31	44.57	44.41	463.75	405.04	359.56
P1462_066_Zrn_A_1_MBD_88	599.60	27.83	27.77	206Pb/238U	66	0.93	0.80964	0.09671	0.09748	0.00473	602.25	55.00	53.55	599.60	27.83	27.77	612.25	279.82	257.15
P1462_066_Zrn_A_1_MBD_77	607.93	41.25	41.11	206Pb/238U	47	0.58	0.80492	0.09632	0.09890	0.00702	599.60	54.92	53.48	607.93	41.25	41.11	568.23	282.51	259.47
P1462_066_Zrn_A_1_MBD_30	620.00	26.86	26.81	206Pb/238U	97	1.94	0.88285	0.12233	0.10095	0.00458	642.52	67.07	64.92	620.00	26.86	26.81	722.52	299.82	273.77
P1462_066_Zrn_A_1_MBD_17	629.19	23.19	23.15	206Pb/238U	247	2.46	1.03419	0.09711	0.10252	0.00396	721.02	49.06	47.91	629.19	23.19	23.15	1018.38	191.11	180.01
P1462_066_Zrn_A_1_MBD_64	642.33	25.28	25.23	206Pb/238U	133	1.35	0.86192	0.07067	0.10477	0.00433	631.17	38.91	38.18	642.33	25.28	25.23	591.42	173.41	164.44
P1462_066_Zrn_A_1_MBD_24	698.69	34.90	34.81	206Pb/238U	71	1.24	0.94787	0.11261	0.11448	0.00603	676.99	59.56	57.87	698.69	34.90	34.81	605.47	257.70	238.36
P1462_066_Zrn_A_1_MBD_107	848.77	73.23	72.82	206Pb/238U	228	2.78	1.46981	0.22939	0.14073	0.01292	918.05	96.57	92.18	848.77	73.23	72.82	1088.47	308.93	280.80
P1462_066_Zrn_A_1_MBD_11	863.41	26.39	26.34	206Pb/238U	153	2.07	1.37022	0.07576	0.14332	0.00468	876.26	32.72	32.20	863.41	26.39	26.34	908.86	106.21	102.71
P1462_066_Zrn_A_1_MBD_38	866.72	42.61	42.47	206Pb/238U	70	1.66	1.34593	0.16471	0.14391	0.00755	865.80	72.57	70.07	866.72	42.61	42.47	863.44	259.25	239.39
P1462_066_Zrn_A_1_MBD_49	883.81	33.82	33.73	206Pb/238U	195	3.17	1.48100	0.10835	0.14694	0.00601	922.64	44.84	43.87	883.81	33.82	33.73	1016.66	137.81	131.95
P1462_066_Zrn_A_1_MBD_98	891.09	31.36	31.28	206Pb/238U	115	2.07	1.35420	0.08686	0.14824	0.00558	869.37	37.81	37.12	891.09	31.36	31.28	814.42	127.24	122.28
P1462_066_Zrn_A_1_MBD_91	903.14	25.97	25.92	206Pb/238U	267	4.82	1.45202	0.08104	0.15039	0.00463	910.71	33.84	33.29	903.14	25.97	25.92	929.10	105.86	102.38
P1462_066_Zrn_A_1_MBD_43	910.61	46.07	45.91	206Pb/238U	335	6.05	1.58077	0.12881	0.15172	0.00822	962.67	51.32	50.06	910.61	46.07	45.91	1083.56	146.35	139.73
P1462_066_Zrn_A_1_MBD_35	914.66	131.96	123.91	207Pb/235Uc	165	5.37	1.46157	0.30973	0.13453	0.02300	914.66	131.96	123.91	813.67	131.35	130.02	1166.97	352.71	316.37
P1462_066_Zrn_A_1_MBD_62	915.76	31.49	31.41	206Pb/238U	101	2.43	1.44285	0.13223	0.15264	0.00562	906.90	55.72	54.23	915.76	31.49	31.41	885.39	190.93	179.93
P1462_066_Zrn_A_1_MBD_1	921.54	33.69	33.60	206Pb/238U	112	1.94	1.58133	0.12253	0.15368	0.00602	962.89	48.78	47.63	921.54	33.69	33.60	1058.55	155.03	147.62
P1462_066_Zrn_A_1_MBD_55	925.09	32.00	31.50	207Pb/235Uc	470	2.54	1.48701	0.07775	0.14852	0.00550	925.09	32.00	31.50	892.65	30.91	30.83	1003.26	92.17	89.51
P1462_066_Zrn_A_1_MBD_58	931.82	24.80	24.75	206Pb/238U	293	1.95	1.55014	0.08333	0.15552	0.00444	950.55	33.45	32.91	931.82	24.80	24.75	994.17	103.85	100.48



**Table 2.** U–Pb age data from the Cretaceous Colombian back–arc basin (*continued*).

Analysis name	Preferred age (Ma)	Sample GPS–518																	
		2 –sigma	2 +sigma	Age type	[U] (ppm)	U/Th	207Pb/235U Ratio	2 sigma	206Pb/238U Ratio	2 sigma	207Pb/235Uc age (Ma)	2 –sigma	2 +sigma	206Pb/238U age (Ma)	2 –sigma	2 +sigma	207Pb/206Pb age (Ma)	2 –sigma	2 +sigma
P1462_066_Zrn_A_1_MBD_97	933.13	46.73	46.57	206Pb/238U	50	0.96	1.57561	0.16173	0.15575	0.00836	960.64	64.78	62.78	933.13	46.73	46.57	1024.17	207.25	194.25
P1462_066_Zrn_A_1_MBD_89	934.78	28.37	28.31	206Pb/238U	120	2.61	1.46507	0.09292	0.15605	0.00508	916.10	38.64	37.92	934.78	28.37	28.31	871.36	126.56	121.63
P1462_066_Zrn_A_1_MBD_26	958.72	33.07	32.98	206Pb/238U	82	3.13	1.57363	0.12956	0.16035	0.00594	959.86	51.77	50.48	958.72	33.07	32.98	962.46	168.87	160.17
P1462_066_Zrn_A_1_MBD_59	962.27	28.12	27.73	207Pb/235Uc	528	3.89	1.57976	0.07095	0.15920	0.00518	962.27	28.12	27.73	952.34	28.81	28.75	985.05	91.67	89.05
P1462_066_Zrn_A_1_MBD_21	972.19	45.91	45.75	206Pb/238U	241	4.15	1.72574	0.15991	0.16278	0.00827	1018.17	60.46	58.71	972.19	45.91	45.75	1118.39	178.18	168.44
P1462_066_Zrn_A_1_MBD_37	975.49	113.33	112.34	206Pb/238U	7	0.23	1.50376	0.37051	0.16337	0.02036	931.91	156.11	144.96	975.49	113.33	112.34	830.21	532.57	455.09
P1462_066_Zrn_A_1_MBD_39	989.89	43.09	42.19	207Pb/235Uc	170	4.16	1.65089	0.11130	0.16261	0.00814	989.89	43.09	42.19	971.27	45.19	45.04	1031.40	128.93	123.77
P1462_066_Zrn_A_1_MBD_57	1007.74	31.07	30.99	206Pb/238U	168	2.92	1.69285	0.08702	0.16921	0.00563	1005.84	33.08	32.55	1007.74	31.07	30.99	1001.69	93.77	91.02
P1462_066_Zrn_A_1_MBD_100	1038.54	47.67	47.49	206Pb/238U	241	1.83	1.88359	0.15780	0.17481	0.00867	1075.33	56.34	54.82	1038.54	47.67	47.49	1150.68	175.13	165.69
P1462_066_Zrn_A_1_MBD_92	1043.62	27.32	27.26	206Pb/238U	195	1.83	1.95104	0.12443	0.17573	0.00498	1098.81	43.27	42.37	1043.62	27.32	27.26	1209.79	122.50	117.79
P1462_066_Zrn_A_1_MBD_4	1045.35	68.86	68.49	206Pb/238U	146	1.33	2.05495	0.26136	0.17605	0.01253	1133.94	88.78	85.06	1045.35	68.86	68.49	1307.72	229.06	213.05
P1462_066_Zrn_A_1_MBD_61	1047.55	45.08	44.92	206Pb/238U	101	1.70	1.88362	0.15786	0.17645	0.00821	1075.34	56.36	54.84	1047.55	45.08	44.92	1132.11	170.24	161.32
P1462_066_Zrn_A_1_MBD_78	1065.31	46.60	45.56	207Pb/235Uc	379	10.18	1.85527	0.12955	0.17203	0.00982	1065.31	46.60	45.56	1023.30	54.11	53.88	1152.36	119.35	114.89
P1462_066_Zrn_A_1_MBD_79	1094.23	43.98	43.83	206Pb/238U	131	3.29	2.17315	0.18363	0.18500	0.00807	1172.49	59.63	57.93	1094.23	43.98	43.83	1320.00	153.78	146.39
P1462_066_Zrn_A_1_MBD_51	1104.05	36.49	36.39	206Pb/238U	172	2.05	2.01505	0.11850	0.18681	0.00671	1120.60	40.31	39.52	1104.05	36.49	36.39	1152.83	106.98	103.39
P1462_066_Zrn_A_1_MBD_85	1154.63	29.31	28.89	207Pb/235Uc	417	2.55	2.11783	0.08935	0.19032	0.00563	1154.63	29.31	28.89	1123.10	30.54	30.47	1214.31	70.57	68.98
P1462_066_Zrn_A_1_MBD_29	1166.43	45.47	44.47	207Pb/235Uc	298	3.67	2.15427	0.13967	0.18596	0.01093	1166.43	45.47	44.47	1099.45	59.56	59.28	1293.00	123.85	119.02
P1462_066_Zrn_A_1_MBD_109	1223.20	65.19	64.86	206Pb/238U	116	2.38	2.29421	0.22462	0.20895	0.01219	1210.51	70.44	68.08	1223.20	65.19	64.86	1187.94	180.52	170.49
P1462_066_Zrn_A_1_MBD_81	1228.82	29.53	29.11	207Pb/235Uc	148	1.70	2.35415	0.09684	0.20599	0.00676	1228.82	29.53	29.11	1207.44	36.18	36.08	1266.53	76.67	74.80
P1462_066_Zrn_A_1_MBD_90	1240.73	34.74	34.65	206Pb/238U	196	2.25	2.49868	0.14281	0.21224	0.00652	1271.65	41.87	41.03	1240.73	34.74	34.65	1324.31	106.41	102.82
P1462_066_Zrn_A_1_MBD_80	1272.79	47.74	46.64	207Pb/235Uc	216	1.03	2.50262	0.16277	0.21312	0.00870	1272.79	47.74	46.64	1245.40	46.32	46.16	1319.36	112.27	108.28
P1462_066_Zrn_A_1_MBD_33	1301.94	41.03	40.22	207Pb/235Uc	178	2.51	2.60462	0.14419	0.21823	0.00968	1301.94	41.03	40.22	1272.49	51.32	51.12	1350.82	89.12	86.58
P1462_066_Zrn_A_1_MBD_46	1329.79	35.45	34.84	207Pb/235Uc	221	2.02	2.70484	0.12821	0.22446	0.00742	1329.79	35.45	34.84	1305.39	39.10	38.98	1369.30	82.04	79.88
P1462_066_Zrn_A_1_MBD_94	1333.06	33.91	33.35	207Pb/235Uc	353	1.87	2.71679	0.12308	0.22152	0.00665	1333.06	33.91	33.35	1289.91	35.15	35.05	1403.05	78.08	76.12
P1462_066_Zrn_A_1_MBD_20	1333.25	36.40	35.76	207Pb/235Uc	206	1.50	2.71751	0.13209	0.22583	0.00683	1333.25	36.40	35.76	1312.61	35.97	35.87	1366.57	95.67	92.75
P1462_066_Zrn_A_1_MBD_104	1360.93	46.87	45.82	207Pb/235Uc	189	3.62	2.82023	0.17434	0.22449	0.00927	1360.93	46.87	45.82	1305.55	48.89	48.70	1449.01	98.95	95.82
P1462_066_Zrn_A_1_MBD_6	1385.66	45.59	44.59	207Pb/235Uc	338	2.41	2.91441	0.17380	0.23743	0.00999	1385.66	45.59	44.59	1373.32	52.13	51.92	1404.71	101.46	98.17
P1462_066_Zrn_A_1_MBD_0	1411.08	32.01	31.93	206Pb/238U	389	2.36	3.20841	0.14352	0.24470	0.00617	1459.19	34.93	34.34	1411.08	32.01	31.93	1529.95	82.84	80.63
P1462_066_Zrn_A_1_MBD_93	1412.27	34.11	34.02	206Pb/238U	92	1.65	3.04527	0.19403	0.24493	0.00658	1419.05	49.29	48.13	1412.27	34.11	34.02	1429.24	118.70	114.22
P1462_066_Zrn_A_1_MBD_42	1432.72	38.46	37.74	207Pb/235Uc	278	2.24	3.10010	0.15383	0.24355	0.00846	1432.72	38.46	37.74	1405.12	43.92	43.77	1473.94	86.03	83.65
P1462_066_Zrn_A_1_MBD_69	1438.46	41.81	40.97	207Pb/235Uc	260	0.59	3.12335	0.16806	0.25465	0.01025	1438.46	41.81	40.97	1462.40	52.79	52.58	1403.24	92.77	90.01
P1462_066_Zrn_A_1_MBD_23	1443.41	51.36	50.09	207Pb/235Uc	178	2.31	3.14351	0.20694	0.24100	0.01021	1443.41	51.36	50.09	1391.88	53.12	52.91	1520.17	115.39	111.14
P1462_066_Zrn_A_1_MBD_83	1454.06	33.41	32.87	207Pb/235Uc	332	1.82	3.18720	0.13664	0.24906	0.00794	1454.06	33.41	32.87	1433.61	41.05	40.92	1484.08	77.39	75.46
P1462_066_Zrn_A_1_MBD_16	1494.09	47.85	46.75	207Pb/235Uc	198	3.98	3.35556	0.20285	0.25030	0.00971	1494.09	47.85	46.75	1440.03	50.18	49.99	1571.66	111.22	107.25
P1462_066_Zrn_A_1_MBD_99	1502.31	28.05	27.67	207Pb/235Uc	603	1.88	3.39095	0.12048	0.25885	0.00735	1502.31	28.05	27.67	1483.94	37.68	37.57	1528.30	65.11	63.74
P1462_066_Zrn_A_1_MBD_74	1512.44	71.27	68.86	207Pb/235Uc	111	1.68	3.43500	0.30590	0.26812	0.01500	1512.44	71.27	68.86	1531.24	76.45	76.00	1486.22	152.28	144.97
P1462_066_Zrn_A_1_MBD_45	1530.29	60.07	59.79	206Pb/238U	150	1.70	3.88419	0.30459	0.26793	0.01179	1610.40	64.33	62.35	1530.29	60.07	59.79	1716.80	130.70	125.22
P1462_066_Zrn_A_1_MBD_25	1552.14	48.04	47.86	206Pb/238U	74	0.46	3.53046	0.22112	0.27224	0.00946	1534.07	50.17	48.96	1552.14	48.04	47.86	1509.23	120.78	116.13
P1462_066_Zrn_A_1_MBD_68	1552.70	65.12	63.10	207Pb/235Uc	429	2.33	3.61435	0.29125	0.25472	0.01773	1552.70	65.12	63.10	1462.76	91.40	90.75	1677.31	109.79	105.90
P1462_066_Zrn_A_1_MBD_28	1555.88	49.09	47.93	207Pb/235Uc	213	2.22	3.62883	0.22110	0.26725	0.01026	1555.88	49.09	47.93	1526.83	52.31	52.10	1595.53	100.26	97.02
P1462_066_Zrn_A_1_MBD_10	1560.76	36.68	36.03	207Pb/235Uc	174	0.99	3.65116	0.16651	0.27378	0.00818	1560.76	36.68	36.03	1559.97	41.49	41.35	1561.84	80.39	78.29
P1462_066_Zrn_A_1_MBD_70	1592.65	44.05	43.11	207Pb/235Uc	118	1.77	3.79957	0.20597	0.27422	0.00902	1592.65	44.05	43.11	1562.16	45.72	45.56	1633.25	91.96	89.22

**Table 2.** U–Pb age data from the Cretaceous Colombian back–arc basin (*continued*).

Sample GPS–518																			
Analysis name	Preferred age (Ma)	2–sigma	2 +sigma	Age type	[U] (ppm)	U/Th	207Pb/235U Ratio	2 sigma	206Pb/238U Ratio	2 sigma	207Pb/235Uc age (Ma)	2–sigma	2 +sigma	206Pb/238U age (Ma)	2–sigma	2 +sigma	207Pb/206Pb age (Ma)	2–sigma	2 +sigma
P1462_066_Zrn_A_1_MBD_50	1607.12	40.99	40.18	207Pb/235Uc	250	2.28	3.86842	0.19455	0.28863	0.00914	1607.12	40.99	40.18	1634.69	45.82	45.66	1571.16	85.58	83.22
P1462_066_Zrn_A_1_MBD_82	1658.56	44.11	43.96	206Pb/238U	217	2.11	4.23908	0.23539	0.29341	0.00884	1681.62	46.14	45.12	1658.56	44.11	43.96	1710.52	94.37	91.48
P1462_066_Zrn_A_1_MBD_52	1659.23	47.03	45.96	207Pb/235Uc	185	2.30	4.12481	0.23462	0.28517	0.01184	1659.23	47.03	45.96	1617.37	59.53	59.26	1712.64	91.48	88.77
P1462_066_Zrn_A_1_MBD_106	1705.50	38.02	37.32	207Pb/235Uc	287	0.64	4.36374	0.19899	0.29960	0.01147	1705.50	38.02	37.32	1689.34	57.03	56.78	1725.42	76.07	74.18
P1462_066_Zrn_A_1_MBD_31	1712.42	69.51	67.21	207Pb/235Uc	130	1.10	4.40039	0.36342	0.29439	0.02317	1712.42	69.51	67.21	1663.43	115.91	114.87	1772.86	109.70	105.80
P1462_066_Zrn_A_1_MBD_44	1749.76	46.65	45.60	207Pb/235Uc	398	1.69	4.60269	0.25448	0.30634	0.01169	1749.76	46.65	45.60	1722.69	57.81	57.55	1782.25	92.36	89.58
P1462_066_Zrn_A_1_MBD_65	1963.15	51.60	50.33	207Pb/235Uc	164	2.04	5.91303	0.34691	0.34698	0.01806	1963.15	51.60	50.33	1920.18	86.72	86.14	2008.76	81.37	79.18
Sample GPS–520																			
Analysis name	Preferred age (Ma)	2–sigma	2 +sigma	Age type	[U] (ppm)	U/Th	207Pb/235U Ratio	2 sigma	206Pb/238U Ratio	2 sigma	207Pb/235Uc age (Ma)	2–sigma	2 +sigma	206Pb/238U age (Ma)	2–sigma	2 +sigma	207Pb/206Pb age (Ma)	2–sigma	2 +sigma
P1462_024_Zrn_A_1_MBD_102	462.84	11.53	11.52	206Pb/238U	738	1.86	0.55317	0.03356	0.07444	0.00192	447.07	22.06	21.82	462.84	11.53	11.52	366.72	136.86	131.29
P1462_024_Zrn_A_1_MBD_33	467.81	19.63	19.60	206Pb/238U	136	1.59	0.59585	0.06937	0.07527	0.00327	474.60	44.63	43.67	467.81	19.63	19.60	507.53	259.90	240.35
P1462_024_Zrn_A_1_MBD_100	474.04	14.82	14.81	206Pb/238U	429	1.79	0.58292	0.03359	0.07631	0.00247	466.33	21.66	21.43	474.04	14.82	14.81	428.57	132.70	127.43
P1462_024_Zrn_A_1_MBD_93	499.71	17.14	17.12	206Pb/238U	191	1.93	0.61516	0.11271	0.08060	0.00287	486.81	72.12	69.65	499.71	17.14	17.12	426.54	436.17	383.99
P1462_024_Zrn_A_1_MBD_52	636.36	20.99	20.95	206Pb/238U	357	1.76	0.83843	0.05809	0.10375	0.00359	618.28	32.34	31.84	636.36	20.99	20.95	552.62	153.19	146.16
P1462_024_Zrn_A_1_MBD_27	827.00	43.99	43.84	206Pb/238U	62	0.84	1.27856	0.14878	0.13688	0.00774	836.21	67.41	65.24	827.00	43.99	43.84	860.77	240.68	223.48
P1462_024_Zrn_A_1_MBD_74	888.51	30.14	30.07	206Pb/238U	393	7.91	1.38765	0.18533	0.14778	0.00536	883.70	80.38	77.32	888.51	30.14	30.07	871.68	291.80	266.87
P1462_024_Zrn_A_1_MBD_17	895.60	41.19	41.06	206Pb/238U	91	2.16	1.52141	0.12481	0.14904	0.00733	939.04	50.89	49.65	895.60	41.19	41.06	1042.40	170.99	162.03
P1462_024_Zrn_A_1_MBD_24	912.02	25.39	25.34	206Pb/238U	433	2.27	1.49160	0.07728	0.15197	0.00453	926.97	31.74	31.25	912.02	25.39	25.34	962.70	100.23	97.10
P1462_024_Zrn_A_1_MBD_14	923.84	28.52	28.46	206Pb/238U	230	1.36	1.40721	0.09041	0.15409	0.00510	891.98	38.50	37.78	923.84	28.52	28.46	813.83	132.72	127.33
P1462_024_Zrn_A_1_MBD_34	924.32	33.38	33.29	206Pb/238U	322	2.90	1.52642	0.08982	0.15417	0.00597	941.06	36.42	35.78	924.32	33.38	33.29	980.46	109.90	106.15
P1462_024_Zrn_A_1_MBD_37	932.55	28.80	28.74	206Pb/238U	311	3.33	1.45350	0.08256	0.15565	0.00516	911.32	34.46	33.89	932.55	28.80	28.74	860.24	112.81	108.88
P1462_024_Zrn_A_1_MBD_96	934.17	32.13	32.05	206Pb/238U	105	1.04	1.55572	0.09694	0.15594	0.00575	952.77	38.88	38.15	934.17	32.13	32.05	995.96	124.66	119.84
P1462_024_Zrn_A_1_MBD_35	944.05	32.50	32.42	206Pb/238U	410	3.19	1.56471	0.08425	0.15771	0.00583	956.33	33.63	33.08	944.05	32.50	32.42	984.70	99.01	95.95
P1462_024_Zrn_A_1_MBD_84	952.53	32.49	32.41	206Pb/238U	172	2.73	1.58992	0.09803	0.15924	0.00584	966.27	38.80	38.07	952.53	32.49	32.41	997.65	120.47	115.97
P1462_024_Zrn_A_1_MBD_43	952.96	32.83	32.75	206Pb/238U	120	1.07	1.55388	0.10104	0.15931	0.00590	952.04	40.58	39.78	952.96	32.83	32.75	949.91	135.32	129.68
P1462_024_Zrn_A_1_MBD_23	957.94	32.19	32.11	206Pb/238U	715	3.11	1.62656	0.08563	0.16021	0.00579	980.53	33.38	32.84	957.94	32.19	32.11	1031.46	90.68	88.10
P1462_024_Zrn_A_1_MBD_61	959.40	31.85	31.78	206Pb/238U	381	3.33	1.56731	0.09408	0.16047	0.00573	957.36	37.56	36.87	959.40	31.85	31.78	952.68	118.09	113.77
P1462_024_Zrn_A_1_MBD_13	972.24	49.97	49.78	206Pb/238U	31	2.00	1.54541	0.18648	0.16279	0.00900	948.66	75.79	73.06	972.24	49.97	49.78	894.34	250.67	232.03
P1462_024_Zrn_A_1_MBD_89	978.97	43.14	43.00	206Pb/238U	65	1.47	1.69746	0.13083	0.16400	0.00778	1007.57	49.85	48.66	978.97	43.14	43.00	1070.32	145.79	139.21
P1462_024_Zrn_A_1_MBD_83	981.07	27.40	27.03	207Pb/235Uc	478	4.81	1.62796	0.07043	0.16552	0.00553	981.07	27.40	27.03	987.39	30.63	30.55	966.94	87.92	85.50
P1462_024_Zrn_A_1_MBD_108	982.40	26.69	26.63	206Pb/238U	212	0.74	1.66772	0.07714	0.16462	0.00482	996.32	29.58	29.15	982.40	26.69	26.63	1027.08	96.05	93.16
P1462_024_Zrn_A_1_MBD_88	986.95	49.73	49.54	206Pb/238U	56	1.01	1.60845	0.15810	0.16544	0.00897	973.50	62.50	60.63	986.95	49.73	49.54	943.29	194.90	183.41
P1462_024_Zrn_A_1_MBD_64	988.00	35.40	35.31	206Pb/238U	76	1.21	1.67374	0.13361	0.16563	0.00639	998.61	51.38	50.12	988.00	35.40	35.31	1021.96	156.04	148.55
P1462_024_Zrn_A_1_MBD_48	989.74	48.78	47.63	207Pb/235Uc	613	1.49	1.65050	0.12581	0.15530	0.00997	989.74	48.78	47.63	930.63	55.74	55.50	1123.21	134.00	128.41
P1462_024_Zrn_A_1_MBD_20	992.14	33.32	33.23	206Pb/238U	156	2.84	1.53075	0.10473	0.16638	0.00602	942.80	42.46	41.59	992.14	33.32	33.23	829.26	136.22	130.54
P1462_024_Zrn_A_1_MBD_42	992.32	29.72	29.66	206Pb/238U	164	2.59	1.67779	0.10176	0.16641	0.00537	1000.14	38.96	38.22	992.32	29.72	29.66	1017.35	120.39	115.88
P1462_024_Zrn_A_1_MBD_50	998.47	36.80	36.70	206Pb/238U	158	4.73	1.78475	0.12366	0.16753	0.00666	1039.91	45.60	44.59	998.47	36.80	36.70	1128.08	132.69	127.21
P1462_024_Zrn_A_1_MBD_95	1005.46	40.74	40.61	206Pb/238U	262	2.88	1.68573	0.11048	0.16879	0.00737	1003.15	42.20	41.34	1005.46	40.74	40.61	998.10	123.66	118.92
P1462_024_Zrn_A_1_MBD_10	1006.38	29.42	29.35	206Pb/238U	402	2.46	1.73350	0.09725	0.16896	0.00533	1021.05	36.45	35.81	1006.38	29.42	29.35	1052.65	108.93	105.23
P1462_024_Zrn_A_1_MBD_8	1008.57	27.88	27.82	206Pb/238U	527	3.30	1.77793	0.09360	0.16936	0.00505	1037.42	34.50	33.93	1008.57	27.88	27.82	1098.74	99.72	96.60

**Table 2.** U–Pb age data from the Cretaceous Colombian back–arc basin (*continued*).

Analysis name	Preferred age (Ma)	Sample GPS–520																	
		2–sigma	2 +sigma	Age type	[U] (ppm)	U/Th	207Pb/235U Ratio	2 sigma	206Pb/238U Ratio	2 sigma	207Pb/235Uc age (Ma)	2–sigma	2 +sigma	206Pb/238U age (Ma)	2–sigma	2 +sigma	207Pb/206Pb age (Ma)	2–sigma	2 +sigma
P1462_024_Zrn_A_1_MBD_29	1008.91	38.79	38.67	206Pb/238U	48	1.88	1.60647	0.14175	0.16942	0.00703	972.73	55.99	54.48	1008.91	38.79	38.67	891.90	187.53	176.90
P1462_024_Zrn_A_1_MBD_36	1020.18	34.35	34.26	206Pb/238U	209	2.40	1.63389	0.08718	0.17147	0.00623	983.36	33.89	33.33	1020.18	34.35	34.26	902.04	102.84	99.56
P1462_024_Zrn_A_1_MBD_62	1026.04	28.82	28.76	206Pb/238U	193	1.32	1.72305	0.08972	0.17253	0.00524	1017.16	33.73	33.18	1026.04	28.82	28.76	998.09	100.71	97.54
P1462_024_Zrn_A_1_MBD_71	1033.03	31.48	31.00	207Pb/235Uc	329	3.04	1.76593	0.08508	0.17548	0.00600	1033.03	31.48	31.00	1042.26	32.96	32.88	1013.53	93.17	90.45
P1462_024_Zrn_A_1_MBD_21	1037.56	61.18	59.39	207Pb/235Uc	160	2.73	1.77830	0.16491	0.16497	0.01312	1037.56	61.18	59.39	984.33	72.81	72.40	1151.48	206.40	193.41
P1462_024_Zrn_A_1_MBD_22	1041.91	37.92	37.81	206Pb/238U	218	3.03	1.80436	0.11379	0.17542	0.00690	1047.04	41.62	40.79	1041.91	37.92	37.81	1057.77	121.05	116.48
P1462_024_Zrn_A_1_MBD_104	1051.03	25.74	25.42	207Pb/235Uc	1264	9.95	1.81539	0.07091	0.17610	0.00503	1051.03	25.74	25.42	1045.66	27.59	27.53	1062.20	72.06	70.42
P1462_024_Zrn_A_1_MBD_97	1053.36	49.20	48.03	207Pb/235Uc	78	2.16	1.82187	0.13508	0.17605	0.00947	1053.36	49.20	48.03	1045.35	51.99	51.78	1070.01	134.14	128.56
P1462_024_Zrn_A_1_MBD_99	1059.77	42.25	42.11	206Pb/238U	201	5.73	1.69950	0.14282	0.17868	0.00771	1008.34	54.44	53.02	1059.77	42.25	42.11	898.22	166.48	158.04
P1462_024_Zrn_A_1_MBD_73	1087.37	91.57	90.92	206Pb/238U	39	3.27	1.86132	0.30130	0.18374	0.01675	1067.46	109.84	104.20	1087.37	91.57	90.92	1026.99	333.23	300.84
P1462_024_Zrn_A_1_MBD_106	1093.81	36.15	36.05	206Pb/238U	174	1.93	1.94315	0.11640	0.18492	0.00664	1096.09	40.56	39.76	1093.81	36.15	36.05	1100.62	117.49	113.18
P1462_024_Zrn_A_1_MBD_92	1112.19	45.41	44.42	207Pb/235Uc	575	4.02	1.99021	0.13225	0.18511	0.01070	1112.19	45.41	44.42	1094.86	58.36	58.10	1146.24	94.65	91.82
P1462_024_Zrn_A_1_MBD_15	1126.10	45.65	45.49	206Pb/238U	242	1.83	2.15110	0.16374	0.19087	0.00842	1165.41	53.46	52.09	1126.10	45.65	45.49	1239.21	142.46	136.12
P1462_024_Zrn_A_1_MBD_45	1132.39	32.94	32.86	206Pb/238U	834	3.28	2.09846	0.10296	0.19204	0.00608	1148.30	34.02	33.46	1132.39	32.94	32.86	1178.47	89.33	86.81
P1462_024_Zrn_A_1_MBD_30	1140.49	36.95	36.29	207Pb/235Uc	296	2.75	2.07470	0.11089	0.19002	0.00688	1140.49	36.95	36.29	1121.49	37.34	37.23	1176.80	97.15	94.17
P1462_024_Zrn_A_1_MBD_56	1142.65	52.76	52.55	206Pb/238U	280	2.58	2.16594	0.58690	0.19393	0.00975	1170.18	197.53	180.01	1142.65	52.76	52.55	1221.48	588.28	493.36
P1462_024_Zrn_A_1_MBD_47	1156.91	31.77	31.28	207Pb/235Uc	364	3.94	2.12484	0.09702	0.19775	0.00620	1156.91	31.77	31.28	1163.24	33.39	33.30	1145.07	85.50	83.18
P1462_024_Zrn_A_1_MBD_55	1173.68	33.62	33.07	207Pb/235Uc	242	2.10	2.17688	0.10433	0.20189	0.00660	1173.68	33.62	33.07	1185.45	35.43	35.33	1152.04	87.10	84.70
P1462_024_Zrn_A_1_MBD_0	1188.47	36.88	36.22	207Pb/235Uc	198	0.97	2.22350	0.11602	0.20117	0.00803	1188.47	36.88	36.22	1181.58	43.15	43.01	1201.04	104.59	101.14
P1462_024_Zrn_A_1_MBD_90	1227.79	37.28	36.61	207Pb/235Uc	179	3.65	2.35075	0.12189	0.20516	0.00713	1227.79	37.28	36.61	1203.00	38.20	38.09	1271.59	110.41	106.55
P1462_024_Zrn_A_1_MBD_94	1229.58	29.93	29.50	207Pb/235Uc	606	2.69	2.35669	0.09823	0.21155	0.00597	1229.58	29.93	29.50	1237.07	31.80	31.72	1216.48	74.96	73.17
P1462_024_Zrn_A_1_MBD_63	1236.95	37.88	37.77	206Pb/238U	275	5.40	2.28995	0.12730	0.21153	0.00711	1209.19	39.67	38.91	1236.95	37.88	37.77	1159.95	105.39	101.90
P1462_024_Zrn_A_1_MBD_32	1238.28	44.33	44.18	206Pb/238U	180	3.69	2.37515	0.15137	0.21178	0.00832	1235.15	46.06	45.04	1238.28	44.33	44.18	1229.70	109.80	105.99
P1462_024_Zrn_A_1_MBD_28	1248.03	34.93	34.83	206Pb/238U	278	3.27	2.36943	0.11619	0.21361	0.00657	1233.43	35.32	34.71	1248.03	34.93	34.83	1208.01	88.89	86.38
P1462_024_Zrn_A_1_MBD_85	1255.56	32.37	31.87	207Pb/235Uc	188	1.71	2.44365	0.10893	0.21557	0.00695	1255.56	32.37	31.87	1258.42	36.89	36.78	1250.65	80.89	78.80
P1462_024_Zrn_A_1_MBD_12	1257.95	48.71	47.57	207Pb/235Uc	88	1.89	2.45177	0.16361	0.22238	0.00955	1257.95	48.71	47.57	1294.41	50.45	50.25	1196.09	130.50	125.17
P1462_024_Zrn_A_1_MBD_66	1258.37	35.95	35.33	207Pb/235Uc	155	3.33	2.45320	0.12119	0.21996	0.00720	1258.37	35.95	35.33	1281.68	38.09	37.97	1218.72	91.12	88.49
P1462_024_Zrn_A_1_MBD_82	1271.09	35.48	34.87	207Pb/235Uc	284	3.65	2.49676	0.12112	0.21777	0.00670	1271.09	35.48	34.87	1270.10	35.54	35.44	1272.77	90.82	88.20
P1462_024_Zrn_A_1_MBD_54	1275.92	39.72	38.96	207Pb/235Uc	598	2.13	2.51341	0.13611	0.21999	0.00841	1275.92	39.72	38.96	1281.81	44.50	44.34	1266.00	103.11	99.75
P1462_024_Zrn_A_1_MBD_76	1284.88	49.18	48.02	207Pb/235Uc	649	1.84	2.54456	0.16963	0.20838	0.00865	1284.88	49.18	48.02	1220.17	46.24	46.08	1394.76	119.74	115.20
P1462_024_Zrn_A_1_MBD_68	1296.12	38.61	37.89	207Pb/235Uc	332	2.15	2.58400	0.13498	0.21815	0.00771	1296.12	38.61	37.89	1272.11	40.84	40.71	1336.09	93.90	91.09
P1462_024_Zrn_A_1_MBD_26	1303.48	39.57	38.81	207Pb/235Uc	302	1.58	2.61008	0.13933	0.22285	0.00829	1303.48	39.57	38.81	1296.92	43.79	43.64	1314.29	89.36	86.82
P1462_024_Zrn_A_1_MBD_39	1306.95	38.51	37.79	207Pb/235Uc	228	1.88	2.62243	0.13610	0.22537	0.00781	1306.95	38.51	37.79	1310.21	41.17	41.04	1301.59	90.90	88.27
P1462_024_Zrn_A_1_MBD_101	1321.81	52.04	50.74	207Pb/235Uc	121	1.65	2.67586	0.18600	0.22166	0.01272	1321.81	52.04	50.74	1290.66	67.28	66.93	1372.68	113.36	109.29
P1462_024_Zrn_A_1_MBD_80	1323.50	30.99	30.52	207Pb/235Uc	260	1.99	2.68198	0.11151	0.22691	0.00686	1323.50	30.99	30.52	1318.31	36.09	35.99	1331.92	73.67	71.93
P1462_024_Zrn_A_1_MBD_75	1329.20	46.52	45.47	207Pb/235Uc	656	2.29	2.70271	0.16770	0.21958	0.00975	1329.20	46.52	45.47	1279.65	51.62	51.41	1409.98	107.99	104.28
P1462_024_Zrn_A_1_MBD_78	1331.45	35.12	34.52	207Pb/235Uc	744	2.61	2.71091	0.12723	0.22671	0.00746	1331.45	35.12	34.52	1317.22	39.24	39.12	1354.41	87.41	84.97
P1462_024_Zrn_A_1_MBD_18	1334.97	44.50	43.54	207Pb/235Uc	203	3.01	2.72379	0.16142	0.22611	0.00836	1334.97	44.50	43.54	1314.06	44.04	43.89	1368.65	108.41	104.68
P1462_024_Zrn_A_1_MBD_59	1400.70	44.61	43.65	207Pb/235Uc	104	1.17	2.97284	0.17263	0.24134	0.00857	1400.70	44.61	43.65	1393.67	44.60	44.45	1411.42	104.24	100.77
P1462_024_Zrn_A_1_MBD_70	1401.19	61.81	61.51	206Pb/238U	25	1.90	2.99058	0.27616	0.24279	0.01189	1405.23	71.51	69.08	1401.19	61.81	61.51	1411.36	177.68	167.84
P1462_024_Zrn_A_1_MBD_81	1422.35	36.58	35.93	207Pb/235Uc	145	2.90	3.05846	0.14489	0.24645	0.00805	1422.35	36.58	35.93	1420.13	41.71	41.57	1425.68	81.53	79.39
P1462_024_Zrn_A_1_MBD_107	1423.78	46.87	45.81	207Pb/235Uc	353	2.14	3.06416	0.18544	0.24729	0.01345	1423.78	46.87	45.81	1424.47	69.72	69.34	1422.74	70.04	68.46

**Table 2.** U–Pb age data from the Cretaceous Colombian back–arc basin (*continued*).

Sample GPS–520																			
Analysis name	Preferred age (Ma)	2 –sigma	2 +sigma	Age type	[U] (ppm)	U/Th	207Pb/235U Ratio	2 sigma	206Pb/238U Ratio	2 sigma	207Pb/235Uc age (Ma)	2 –sigma	2 +sigma	206Pb/238U age (Ma)	2 –sigma	2 +sigma	207Pb/206Pb age (Ma)	2 –sigma	2 +sigma
P1462_024_Zrn_A_1_MBD_69	1437.80	39.44	39.32	206Pb/238U	255	2.07	3.40285	0.18525	0.24987	0.00763	1505.05	43.18	42.28	1437.80	39.44	39.32	1601.05	97.03	94.00
P1462_024_Zrn_A_1_MBD_44	1466.40	39.31	38.56	207Pb/235Uc	140	1.99	3.23837	0.16251	0.25920	0.00780	1466.40	39.31	38.56	1485.77	39.98	39.85	1438.45	92.34	89.61
P1462_024_Zrn_A_1_MBD_40	1468.20	35.76	35.14	207Pb/235Uc	442	1.96	3.24591	0.14823	0.25390	0.00785	1468.20	35.76	35.14	1458.57	40.41	40.29	1482.16	81.63	79.49
P1462_024_Zrn_A_1_MBD_53	1485.20	39.28	38.54	207Pb/235Uc	429	1.62	3.31759	0.16543	0.25771	0.00861	1485.20	39.28	38.54	1478.12	44.22	44.07	1495.32	88.25	85.74
P1462_024_Zrn_A_1_MBD_109	1488.20	31.54	31.06	207Pb/235Uc	596	2.55	3.33035	0.13349	0.25954	0.00720	1488.20	31.54	31.06	1487.48	36.92	36.81	1489.22	78.00	76.03
P1462_024_Zrn_A_1_MBD_9	1492.61	35.68	35.06	207Pb/235Uc	500	2.10	3.34920	0.15148	0.26201	0.00780	1492.61	35.68	35.06	1500.13	39.91	39.79	1481.93	81.59	79.44
P1462_024_Zrn_A_1_MBD_105	1500.37	41.71	40.87	207Pb/235Uc	295	0.94	3.38257	0.17818	0.26026	0.00998	1500.37	41.71	40.87	1491.15	51.14	50.94	1513.40	96.08	93.11
P1462_024_Zrn_A_1_MBD_51	1519.54	44.70	43.73	207Pb/235Uc	265	1.86	3.46613	0.19445	0.25317	0.00938	1519.54	44.70	43.73	1454.79	48.33	48.14	1610.94	93.87	91.02
P1462_024_Zrn_A_1_MBD_72	1543.98	36.40	35.76	207Pb/235Uc	208	3.29	3.57492	0.16254	0.27106	0.00804	1543.98	36.40	35.76	1546.20	40.83	40.70	1540.94	78.70	76.69
P1462_024_Zrn_A_1_MBD_38	1569.88	55.34	53.88	207Pb/235Uc	62	0.59	3.69310	0.25235	0.27311	0.01326	1569.88	55.34	53.88	1556.55	67.31	66.95	1587.85	121.06	116.37
P1462_024_Zrn_A_1_MBD_98	1581.23	38.19	37.49	207Pb/235Uc	306	4.34	3.74585	0.17684	0.27306	0.00915	1581.23	38.19	37.49	1556.32	46.40	46.24	1614.61	88.07	85.56
P1462_024_Zrn_A_1_MBD_6	1647.80	43.39	42.48	207Pb/235Uc	160	1.87	4.06744	0.21424	0.30368	0.01087	1647.80	43.39	42.48	1709.55	53.85	53.62	1569.92	92.17	89.43
P1462_024_Zrn_A_1_MBD_4	1674.52	42.87	41.99	207Pb/235Uc	675	3.28	4.20254	0.21737	0.29656	0.01175	1674.52	42.87	41.99	1674.22	58.58	58.31	1674.89	87.82	85.32
P1462_024_Zrn_A_1_MBD_58	1713.19	40.69	39.89	207Pb/235Uc	336	1.62	4.40453	0.21442	0.30144	0.00996	1713.19	40.69	39.89	1698.44	49.43	49.24	1731.28	83.69	81.41
P1462_024_Zrn_A_1_MBD_67	1755.83	41.24	40.42	207Pb/235Uc	319	2.31	4.63631	0.22660	0.31307	0.01009	1755.83	41.24	40.42	1755.78	49.61	49.42	1755.90	82.77	80.53
P1462_024_Zrn_A_1_MBD_46	1781.71	41.63	40.80	207Pb/235Uc	189	1.17	4.78179	0.23464	0.32251	0.01022	1781.71	41.63	40.80	1801.99	49.90	49.71	1758.03	83.21	80.94
P1462_024_Zrn_A_1_MBD_16	1793.82	41.18	40.36	207Pb/235Uc	288	1.15	4.85119	0.23492	0.31953	0.01124	1793.82	41.18	40.36	1787.44	55.01	54.77	1801.26	81.90	79.70
P1462_024_Zrn_A_1_MBD_3	1832.18	59.80	58.09	207Pb/235Uc	77	0.97	5.07646	0.35264	0.32823	0.01351	1832.18	59.80	58.09	1829.80	65.73	65.39	1834.89	119.41	114.79
P1462_024_Zrn_A_1_MBD_5	1867.66	47.17	46.10	207Pb/235Uc	367	1.84	5.29253	0.28894	0.34019	0.01192	1867.66	47.17	46.10	1887.56	57.44	57.19	1845.58	96.65	93.60
P1462_024_Zrn_A_1_MBD_103	1963.38	45.47	44.48	207Pb/235Uc	175	1.91	5.91457	0.30622	0.35079	0.01065	1963.38	45.47	44.48	1938.36	50.92	50.72	1989.85	88.75	86.16
P1462_024_Zrn_A_1_MBD_1	2006.84	50.18	48.97	207Pb/235Uc	113	2.61	6.21701	0.35232	0.36080	0.01415	2006.84	50.18	48.97	1985.99	67.18	66.83	2028.38	96.67	93.60
P1462_024_Zrn_A_1_MBD_7	2761.54	42.39	41.52	207Pb/235Uc	336	2.27	14.17581	0.62697	0.55095	0.01494	2761.54	42.39	41.52	2829.14	62.24	61.94	2712.50	67.61	66.05

  

Sample GPS–526																			
Analysis name	Preferred age (Ma)	2 –sigma	2 +sigma	Age type	[U] (ppm)	U/Th	207Pb/235U Ratio	2 sigma	206Pb/238U Ratio	2 sigma	207Pb/235Uc age (Ma)	2 –sigma	2 +sigma	206Pb/238U age (Ma)	2 –sigma	2 +sigma	207Pb/206Pb age (Ma)	2 –sigma	2 +sigma
P1462_029_Zrn_A_1_MBD_77	409.80	18.48	18.46	206Pb/238U	483	1.57	0.46721	0.04663	0.06563	0.00305	389.26	32.53	32.02	409.80	18.48	18.46	268.95	227.58	212.66
P1462_029_Zrn_A_1_MBD_10	437.02	23.23	23.19	206Pb/238U	69	1.53	0.55710	0.07691	0.07014	0.00385	449.64	50.78	49.54	437.02	23.23	23.19	514.67	323.92	294.08
P1462_029_Zrn_A_1_MBD_93	466.26	18.04	18.01	206Pb/238U	1186	3.02	0.61221	0.03423	0.07501	0.00301	484.95	21.68	21.45	466.26	18.04	18.01	574.28	113.27	109.37
P1462_029_Zrn_A_1_MBD_66	489.89	19.78	19.75	206Pb/238U	296	1.81	0.63453	0.03447	0.07896	0.00331	498.91	21.53	21.30	489.89	19.78	19.75	540.50	133.23	127.89
P1462_029_Zrn_A_1_MBD_102	518.13	17.11	17.08	206Pb/238U	599	2.23	0.66540	0.02811	0.08369	0.00287	517.91	17.21	17.07	518.13	17.11	17.08	516.96	83.82	81.68
P1462_029_Zrn_A_1_MBD_65	579.10	26.52	26.46	206Pb/238U	67	0.82	0.75972	0.10632	0.09399	0.00450	573.85	62.30	60.44	579.10	26.52	26.46	553.12	320.64	291.31
P1462_029_Zrn_A_1_MBD_39	883.31	27.40	27.04	207Pb/235Uc	371	1.47	1.38674	0.06398	0.14279	0.00519	883.31	27.40	27.04	860.41	29.31	29.24	941.12	83.37	81.19
P1462_029_Zrn_A_1_MBD_49	890.98	40.91	40.10	207Pb/235Uc	114	2.06	1.40484	0.09593	0.14930	0.00730	890.98	40.91	40.10	897.04	41.00	40.87	875.98	124.59	119.81
P1462_029_Zrn_A_1_MBD_76	951.47	39.73	39.60	206Pb/238U	141	8.64	1.59987	0.10572	0.15905	0.00713	970.16	41.72	40.88	951.47	39.73	39.60	1012.73	126.75	121.77
P1462_029_Zrn_A_1_MBD_26	966.42	33.47	33.38	206Pb/238U	159	3.31	1.64525	0.12821	0.16174	0.00602	987.73	49.82	48.63	966.42	33.47	33.38	1035.38	156.18	148.67
P1462_029_Zrn_A_1_MBD_29	968.78	28.00	27.94	206Pb/238U	264	1.88	1.56428	0.07039	0.16216	0.00504	956.16	28.06	27.68	968.78	28.00	27.94	927.24	89.81	87.29
P1462_029_Zrn_A_1_MBD_35	976.66	25.73	25.68	206Pb/238U	169	2.26	1.53685	0.09426	0.16358	0.00464	945.24	38.08	37.38	976.66	25.73	25.68	872.76	126.43	121.51
P1462_029_Zrn_A_1_MBD_8	990.99	31.56	31.48	206Pb/238U	302	2.34	1.61482	0.09306	0.16617	0.00570	975.98	36.46	35.82	990.99	31.56	31.48	942.35	111.22	107.38
P1462_029_Zrn_A_1_MBD_85	993.33	59.73	59.45	206Pb/238U	23	2.06	1.57910	0.20518	0.16660	0.01078	962.02	82.43	79.22	993.33	59.73	59.45	891.12	260.44	240.37
P1462_029_Zrn_A_1_MBD_55	993.91	29.83	29.76	206Pb/238U	439	1.21	1.66465	0.08398	0.16670	0.00539	995.15	32.26	31.75	993.91	29.83	29.76	997.89	98.19	95.18
P1462_029_Zrn_A_1_MBD_58	1003.41	32.17	31.67	207Pb/235Uc	156	2.59	1.68642	0.08445	0.17041	0.00610	1003.41	32.17	31.67	1014.38	33.64	33.56	979.52	102.08	98.83

**Table 2.** U–Pb age data from the Cretaceous Colombian back–arc basin (*continued*).

Analysis name	Preferred age (Ma)	Sample GPS–526																	
		2–sigma	2 +sigma	Age type	[U] (ppm)	U/Th	207Pb/235U Ratio	2 sigma	206Pb/238U Ratio	2 sigma	207Pb/235Uc age (Ma)	2–sigma	2 +sigma	206Pb/238U age (Ma)	2–sigma	2 +sigma	207Pb/206Pb age (Ma)	2–sigma	2 +sigma
P1462_029_Zrn_A_1_MBD_97	1004.67	60.25	59.97	206Pb/238U	182	3.00	1.66930	0.15692	0.16865	0.01090	996.92	60.58	58.83	1004.67	60.25	59.97	979.90	157.34	149.75
P1462_029_Zrn_A_1_MBD_28	1007.21	29.84	29.77	206Pb/238U	151	3.93	1.66455	0.13289	0.16911	0.00540	995.11	51.28	50.02	1007.21	29.84	29.77	968.54	163.10	154.97
P1462_029_Zrn_A_1_MBD_48	1014.86	33.95	33.87	206Pb/238U	774	4.51	1.71210	0.11029	0.17050	0.00616	1013.07	41.72	40.88	1014.86	33.95	33.87	1009.21	124.09	119.31
P1462_029_Zrn_A_1_MBD_90	1020.22	40.89	40.08	207Pb/235Uc	89	2.16	1.73127	0.10889	0.17407	0.00828	1020.22	40.89	40.08	1034.52	45.53	45.37	989.66	129.51	124.32
P1462_029_Zrn_A_1_MBD_32	1021.17	27.89	27.83	206Pb/238U	153	3.36	1.72473	0.11030	0.17165	0.00506	1017.79	41.53	40.69	1021.17	27.89	27.83	1010.53	129.51	124.31
P1462_029_Zrn_A_1_MBD_51	1030.81	32.38	31.87	207Pb/235Uc	196	2.45	1.75989	0.08732	0.17444	0.00690	1030.81	32.38	31.87	1036.52	37.94	37.83	1018.71	89.83	87.30
P1462_029_Zrn_A_1_MBD_64	1032.97	37.31	36.64	207Pb/235Uc	186	9.32	1.76578	0.10070	0.17202	0.00711	1032.97	37.31	36.64	1023.23	39.16	39.05	1053.67	113.91	109.86
P1462_029_Zrn_A_1_MBD_15	1033.44	30.86	30.78	206Pb/238U	142	2.25	1.76198	0.08784	0.17388	0.00561	1031.58	32.55	32.04	1033.44	30.86	30.78	1027.63	96.55	93.63
P1462_029_Zrn_A_1_MBD_25	1055.12	33.07	32.98	206Pb/238U	206	3.94	1.79896	0.09499	0.17783	0.00603	1045.08	34.75	34.17	1055.12	33.07	32.98	1024.14	105.95	102.45
P1462_029_Zrn_A_1_MBD_105	1083.54	25.17	24.86	207Pb/235Uc	616	2.21	1.90700	0.07162	0.18394	0.00519	1083.54	25.17	24.86	1088.47	28.28	28.22	1073.64	73.09	71.40
P1462_029_Zrn_A_1_MBD_50	1085.71	27.45	27.39	206Pb/238U	274	1.82	2.02320	0.08450	0.18343	0.00503	1123.33	28.58	28.18	1085.71	27.45	27.39	1196.83	78.79	76.81
P1462_029_Zrn_A_1_MBD_69	1109.99	47.17	47.00	206Pb/238U	82	2.38	1.94263	0.16221	0.18790	0.00868	1095.91	56.76	55.21	1109.99	47.17	47.00	1068.05	170.22	161.33
P1462_029_Zrn_A_1_MBD_44	1117.57	31.37	30.89	207Pb/235Uc	615	3.15	2.00610	0.09216	0.18252	0.00662	1117.57	31.37	30.89	1080.71	36.15	36.05	1189.97	82.85	80.68
P1462_029_Zrn_A_1_MBD_88	1134.35	43.34	42.43	207Pb/235Uc	347	1.97	2.05618	0.12906	0.18281	0.00845	1134.35	43.34	42.43	1082.30	46.14	45.98	1235.37	109.71	105.91
P1462_029_Zrn_A_1_MBD_96	1165.48	31.76	31.69	206Pb/238U	310	3.39	2.11511	0.09729	0.19817	0.00590	1153.74	31.96	31.47	1165.48	31.76	31.69	1131.76	90.90	88.29
P1462_029_Zrn_A_1_MBD_16	1172.07	28.61	28.21	207Pb/235Uc	295	4.05	2.17184	0.08875	0.19886	0.00685	1172.07	28.61	28.21	1169.21	36.90	36.80	1177.35	73.45	71.73
P1462_029_Zrn_A_1_MBD_78	1225.00	41.94	41.09	207Pb/235Uc	94	3.77	2.34156	0.13660	0.21437	0.00810	1225.00	41.94	41.09	1252.06	43.08	42.94	1177.67	108.74	105.02
P1462_029_Zrn_A_1_MBD_3	1236.12	53.53	53.31	206Pb/238U	61	1.91	2.26965	0.23761	0.21137	0.01004	1202.91	75.16	72.48	1236.12	53.53	53.31	1143.74	213.86	199.96
P1462_029_Zrn_A_1_MBD_91	1246.30	45.65	45.49	206Pb/238U	106	2.68	2.47155	0.18217	0.21329	0.00858	1263.75	53.99	52.60	1246.30	45.65	45.49	1293.58	137.96	131.99
P1462_029_Zrn_A_1_MBD_59	1248.47	40.26	40.13	206Pb/238U	250	3.66	2.43558	0.13795	0.21369	0.00757	1253.17	41.19	40.37	1248.47	40.26	40.13	1261.25	111.78	107.83
P1462_029_Zrn_A_1_MBD_45	1270.85	39.77	39.00	207Pb/235Uc	226	2.16	2.49592	0.13559	0.21190	0.00757	1270.85	39.77	39.00	1238.96	40.32	40.19	1325.22	99.28	96.15
P1462_029_Zrn_A_1_MBD_1	1290.41	41.64	40.81	207Pb/235Uc	185	2.60	2.56390	0.14468	0.21960	0.00865	1290.41	41.64	40.81	1279.75	45.79	45.63	1308.18	97.17	94.17
P1462_029_Zrn_A_1_MBD_19	1295.81	80.08	77.04	207Pb/235Uc	29	1.15	2.58291	0.27707	0.21323	0.01623	1295.81	80.08	77.04	1246.02	86.51	85.94	1379.26	189.81	178.64
P1462_029_Zrn_A_1_MBD_103	1318.80	61.43	59.62	207Pb/235Uc	255	1.31	2.66498	0.21839	0.21064	0.01068	1318.80	61.43	59.62	1232.24	57.00	56.75	1462.39	165.60	157.00
P1462_029_Zrn_A_1_MBD_60	1320.15	47.00	46.83	206Pb/238U	217	1.45	2.90694	0.19206	0.22727	0.00893	1383.72	50.54	49.31	1320.15	47.00	46.83	1483.17	119.10	114.58
P1462_029_Zrn_A_1_MBD_0	1324.63	97.51	93.04	207Pb/235Uc	368	3.59	2.68607	0.34562	0.21270	0.02258	1324.63	97.51	93.04	1243.20	120.58	119.46	1458.88	192.11	180.64
P1462_029_Zrn_A_1_MBD_43	1334.50	36.32	35.68	207Pb/235Uc	221	2.47	2.72208	0.13195	0.22506	0.00726	1334.50	36.32	35.68	1308.56	38.24	38.12	1376.37	86.62	84.22
P1462_029_Zrn_A_1_MBD_100	1337.70	30.80	30.34	207Pb/235Uc	479	2.00	2.73384	0.11240	0.23302	0.00657	1337.70	30.80	30.34	1350.30	34.42	34.33	1317.61	82.79	80.60
P1462_029_Zrn_A_1_MBD_95	1342.69	31.60	31.11	207Pb/235Uc	1024	2.37	2.75222	0.11586	0.22191	0.00942	1342.69	31.60	31.11	1291.95	49.81	49.61	1424.51	75.83	73.98
P1462_029_Zrn_A_1_MBD_67	1344.77	32.13	32.05	206Pb/238U	507	4.42	2.78690	0.12464	0.23196	0.00613	1352.03	33.70	33.15	1344.77	32.13	32.05	1363.53	84.42	82.14
P1462_029_Zrn_A_1_MBD_4	1344.85	33.67	33.12	207Pb/235Uc	190	6.79	2.76022	0.12366	0.22233	0.00900	1344.85	33.67	33.12	1294.17	47.53	47.35	1426.43	83.53	81.29
P1462_029_Zrn_A_1_MBD_71	1347.04	32.34	31.83	207Pb/235Uc	321	1.74	2.76832	0.11907	0.23328	0.00805	1347.04	32.34	31.83	1351.68	42.16	42.02	1339.67	87.30	84.87
P1462_029_Zrn_A_1_MBD_106	1366.75	46.48	46.31	206Pb/238U	56	2.19	2.64173	0.16648	0.23617	0.00890	1312.34	46.96	45.89	1366.75	46.48	46.31	1224.51	122.46	117.75
P1462_029_Zrn_A_1_MBD_33	1370.71	38.01	37.31	207Pb/235Uc	226	2.59	2.85721	0.14306	0.23768	0.00910	1370.71	38.01	37.31	1374.63	47.48	47.30	1364.61	93.48	90.69
P1462_029_Zrn_A_1_MBD_68	1378.81	29.47	29.05	207Pb/235Uc	812	8.58	2.88809	0.11203	0.23318	0.00740	1378.81	29.47	29.05	1351.15	38.72	38.60	1421.90	63.63	62.32
P1462_029_Zrn_A_1_MBD_46	1379.35	33.86	33.31	207Pb/235Uc	220	1.70	2.89017	0.12866	0.23954	0.00924	1379.35	33.86	33.31	1384.29	48.14	47.97	1371.71	71.05	69.43
P1462_029_Zrn_A_1_MBD_83	1381.68	30.89	30.42	207Pb/235Uc	121	2.20	2.89912	0.11771	0.23691	0.00770	1381.68	30.89	30.42	1370.60	40.21	40.09	1398.85	71.57	69.92
P1462_029_Zrn_A_1_MBD_94	1384.75	43.23	43.09	206Pb/238U	105	2.04	2.93216	0.18465	0.23963	0.00830	1390.25	48.25	47.13	1384.75	43.23	43.09	1398.69	118.21	113.78
P1462_029_Zrn_A_1_MBD_30	1389.00	34.63	34.05	207Pb/235Uc	275	2.00	2.92730	0.13283	0.23850	0.00860	1389.00	34.63	34.05	1378.88	44.86	44.71	1404.57	78.11	76.15
P1462_029_Zrn_A_1_MBD_20	1421.82	31.56	31.07	207Pb/235Uc	247	1.76	3.05632	0.12509	0.24980	0.00831	1421.82	31.56	31.07	1437.44	42.93	42.79	1398.51	73.98	72.21
P1462_029_Zrn_A_1_MBD_109	1425.82	28.85	28.44	207Pb/235Uc	527	1.80	3.07233	0.11487	0.24602	0.00653	1425.82	28.85	28.44	1417.94	33.82	33.73	1437.60	69.04	67.50
P1462_029_Zrn_A_1_MBD_86	1429.68	34.32	33.75	207Pb/235Uc	419	1.43	3.08784	0.13702	0.24006	0.00921	1429.68	34.32	33.75	1387.00	47.95	47.77	1493.79	72.70	70.99



**Table 2.** U–Pb age data from the Cretaceous Colombian back–arc basin (*continued*).

Analysis name	Preferred age (Ma)	Sample GPS–526																	
		2 –sigma	2 +sigma	Age type	[U] (ppm)	U/Th	207Pb/235U Ratio	2 sigma	206Pb/238U Ratio	2 sigma	207Pb/235Uc age (Ma)	2 –sigma	2 +sigma	206Pb/238U age (Ma)	2 –sigma	2 +sigma	207Pb/206Pb age (Ma)	2 –sigma	2 +sigma
P1462_029_Zrn_A_1_MBD_98	1430.87	68.43	66.20	207Pb/235Uc	388	1.07	3.09264	0.27122	0.23671	0.01873	1430.87	68.43	66.20	1369.55	97.98	97.24	1523.28	119.31	114.77
P1462_029_Zrn_A_1_MBD_27	1456.81	29.28	28.86	207Pb/235Uc	346	2.61	3.19854	0.12020	0.24722	0.00711	1456.81	29.28	28.86	1424.13	36.81	36.71	1504.80	68.98	67.44
P1462_029_Zrn_A_1_MBD_104	1472.94	32.22	31.72	207Pb/235Uc	324	1.38	3.26578	0.13429	0.25396	0.00770	1472.94	32.22	31.72	1458.85	39.66	39.54	1493.31	74.88	73.06
P1462_029_Zrn_A_1_MBD_6	1496.35	36.55	35.90	207Pb/235Uc	202	3.43	3.36528	0.15572	0.25461	0.00919	1496.35	36.55	35.90	1462.23	47.31	47.14	1545.03	76.54	74.65
P1462_029_Zrn_A_1_MBD_108	1512.14	27.14	26.78	207Pb/235Uc	306	3.10	3.43370	0.11773	0.26659	0.00695	1512.14	27.14	26.78	1523.49	35.44	35.34	1496.30	71.16	69.52
P1462_029_Zrn_A_1_MBD_72	1513.58	31.45	30.97	207Pb/235Uc	772	2.92	3.43996	0.13645	0.26099	0.00909	1513.58	31.45	30.97	1494.93	46.55	46.39	1539.76	68.54	67.02
P1462_029_Zrn_A_1_MBD_62	1524.61	39.19	38.45	207Pb/235Uc	141	2.46	3.48847	0.17159	0.27036	0.00869	1524.61	39.19	38.45	1542.61	44.19	44.04	1499.71	87.30	84.85
P1462_029_Zrn_A_1_MBD_101	1536.51	41.37	40.55	207Pb/235Uc	1131	2.59	3.54140	0.18318	0.26834	0.01285	1536.51	41.37	40.55	1532.38	65.46	65.13	1542.20	69.07	67.52
P1462_029_Zrn_A_1_MBD_89	1539.75	37.91	37.21	207Pb/235Uc	145	1.31	3.55589	0.16850	0.27072	0.01332	1539.75	37.91	37.21	1544.47	67.73	67.37	1533.26	95.28	92.36
P1462_029_Zrn_A_1_MBD_24	1554.80	50.23	49.02	207Pb/235Uc	80	1.89	3.62393	0.22593	0.27205	0.01267	1554.80	50.23	49.02	1551.22	64.36	64.04	1559.67	101.35	98.05
P1462_029_Zrn_A_1_MBD_18	1554.86	34.50	33.93	207Pb/235Uc	181	1.21	3.62422	0.15581	0.27599	0.00992	1554.86	34.50	33.93	1571.14	50.21	50.02	1532.83	79.36	77.32
P1462_029_Zrn_A_1_MBD_84	1555.19	25.94	25.61	207Pb/235Uc	649	2.61	3.62570	0.11740	0.26954	0.00685	1555.19	25.94	25.61	1538.49	34.84	34.74	1577.95	58.54	57.42
P1462_029_Zrn_A_1_MBD_87	1567.47	36.82	36.16	207Pb/235Uc	291	2.47	3.68201	0.16824	0.27738	0.00912	1567.47	36.82	36.16	1578.14	46.09	45.92	1553.14	73.35	71.61
P1462_029_Zrn_A_1_MBD_61	1582.01	56.16	55.92	206Pb/238U	140	2.51	3.54379	0.24768	0.27814	0.01111	1537.05	56.12	54.61	1582.01	56.16	55.92	1475.73	134.09	128.39
P1462_029_Zrn_A_1_MBD_92	1592.37	56.05	54.55	207Pb/235Uc	160	0.57	3.79821	0.26125	0.27655	0.01188	1592.37	56.05	54.55	1573.94	60.12	59.84	1616.85	123.86	118.94
P1462_029_Zrn_A_1_MBD_41	1617.68	37.87	37.76	206Pb/238U	117	0.96	3.91669	0.20156	0.28524	0.00754	1617.14	42.06	41.21	1617.68	37.87	37.76	1616.43	94.40	91.52
P1462_029_Zrn_A_1_MBD_23	1621.87	64.83	64.51	206Pb/238U	116	1.97	3.71588	0.34743	0.28607	0.01290	1574.79	76.22	73.46	1621.87	64.83	64.51	1512.28	177.70	167.81
P1462_029_Zrn_A_1_MBD_73	1631.13	28.04	27.66	207Pb/235Uc	504	2.29	3.98491	0.13672	0.28437	0.00813	1631.13	28.04	27.66	1613.32	40.88	40.75	1654.17	57.91	56.81
P1462_029_Zrn_A_1_MBD_36	1648.10	33.67	33.12	207Pb/235Uc	413	1.91	4.06895	0.16671	0.29188	0.01139	1648.10	33.67	33.12	1650.90	56.96	56.71	1644.54	69.59	68.02
P1462_029_Zrn_A_1_MBD_5	1693.98	47.34	46.26	207Pb/235Uc	193	1.92	4.30322	0.24439	0.29815	0.01308	1693.98	47.34	46.26	1682.13	65.13	64.80	1708.68	96.03	93.04
P1462_029_Zrn_A_1_MBD_17	1711.11	34.02	33.46	207Pb/235Uc	362	2.99	4.39347	0.17920	0.30398	0.00990	1711.11	34.02	33.46	1711.02	49.05	48.86	1711.23	67.21	65.73
P1462_029_Zrn_A_1_MBD_22	1712.11	40.42	39.63	207Pb/235Uc	587	1.55	4.39878	0.21281	0.29352	0.01344	1712.11	40.42	39.63	1659.12	67.16	66.82	1777.56	72.38	70.66
P1462_029_Zrn_A_1_MBD_70	1725.40	30.07	29.63	207Pb/235Uc	323	1.44	4.46989	0.16078	0.30952	0.00907	1725.40	30.07	29.63	1738.33	44.71	44.55	1709.75	61.55	60.31
P1462_029_Zrn_A_1_MBD_47	1743.02	39.71	38.95	207Pb/235Uc	135	2.45	4.56563	0.21556	0.31204	0.01169	1743.02	39.71	38.95	1750.72	57.58	57.32	1733.79	71.90	70.21
P1462_029_Zrn_A_1_MBD_80	1765.42	34.23	33.66	207Pb/235Uc	267	1.57	4.68977	0.19021	0.31587	0.01103	1765.42	34.23	33.66	1769.52	54.14	53.91	1760.57	60.27	59.07
P1462_029_Zrn_A_1_MBD_7	1771.00	39.24	38.49	207Pb/235Uc	215	1.18	4.72115	0.21896	0.31212	0.01135	1771.00	39.24	38.49	1751.12	55.89	55.65	1794.52	75.95	74.06
P1462_029_Zrn_A_1_MBD_75	1786.07	29.08	28.67	207Pb/235Uc	211	0.89	4.80667	0.16510	0.31939	0.00836	1786.07	29.08	28.67	1786.75	40.89	40.76	1785.27	58.07	56.96
P1462_029_Zrn_A_1_MBD_21	1804.00	42.80	41.92	207Pb/235Uc	125	1.28	4.91015	0.24651	0.32092	0.01120	1804.00	42.80	41.92	1794.20	54.78	54.55	1815.35	81.93	79.74
P1462_029_Zrn_A_1_MBD_9	1806.26	53.70	52.32	207Pb/235Uc	154	1.86	4.92333	0.30917	0.31702	0.01231	1806.26	53.70	52.32	1775.14	60.42	60.14	1842.38	106.71	103.01
P1462_029_Zrn_A_1_MBD_42	1812.28	53.31	51.95	207Pb/235Uc	242	1.11	4.95852	0.30877	0.32031	0.01788	1812.28	53.31	51.95	1791.23	87.62	87.03	1836.57	112.56	108.45
P1462_029_Zrn_A_1_MBD_53	1814.57	39.87	39.10	207Pb/235Uc	541	2.44	4.97200	0.23222	0.31784	0.01355	1814.57	39.87	39.10	1779.18	66.43	66.09	1855.46	61.30	60.06
P1462_029_Zrn_A_1_MBD_57	1821.50	37.97	37.27	207Pb/235Uc	232	1.94	5.01288	0.22274	0.32095	0.01428	1821.50	37.97	37.27	1794.35	69.89	69.51	1852.69	66.39	64.94
P1462_029_Zrn_A_1_MBD_14	1826.18	42.13	41.28	207Pb/235Uc	113	1.21	5.04069	0.24808	0.34012	0.01568	1826.18	42.13	41.28	1887.27	75.64	75.20	1757.22	66.93	65.46
P1462_029_Zrn_A_1_MBD_38	1828.51	46.04	45.02	207Pb/235Uc	328	3.17	5.05454	0.27144	0.31983	0.01524	1828.51	46.04	45.02	1788.88	74.64	74.21	1873.95	82.05	79.84
P1462_029_Zrn_A_1_MBD_81	1876.27	58.91	57.25	207Pb/235Uc	164	1.56	5.34611	0.36287	0.33721	0.01421	1876.27	58.91	57.25	1873.23	68.67	68.30	1879.63	116.42	112.01
P1462_029_Zrn_A_1_MBD_54	1947.91	38.81	38.08	207Pb/235Uc	308	1.60	5.81008	0.25780	0.33967	0.01278	1947.91	38.81	38.08	1885.09	61.65	61.36	2015.38	82.07	79.84
P1462_029_Zrn_A_1_MBD_99	2008.98	34.02	33.46	207Pb/235Uc	218	1.47	6.23217	0.24027	0.36581	0.01084	2008.98	34.02	33.46	2009.67	51.26	51.06	2008.26	60.03	58.83
P1462_029_Zrn_A_1_MBD_63	2102.16	35.92	35.30	207Pb/235Uc	152	1.46	6.92726	0.27797	0.37953	0.01341	2102.16	35.92	35.30	2074.08	62.80	62.50	2129.75	65.67	64.23

**Table 2.** U–Pb age data from the Cretaceous Colombian back-arc basin (*continued*).

Analysis name	Preferred age (Ma)	Sample GPS-540																	
		2–sigma	2 +sigma	Age type	[U] (ppm)	U/Th	207Pb/235U Ratio	2 sigma	206Pb/238U Ratio	2 sigma	207Pb/235Uc age (Ma)	2–sigma	2 +sigma	206Pb/238U age (Ma)	2–sigma	2 +sigma	207Pb/206Pb age (Ma)	2–sigma	2 +sigma
P1462_039_Zrn_A_1_MBD_47	373.08	17.70	17.68	206Pb/238U	878	2.27	0.46348	0.03772	0.05958	0.00291	386.67	26.34	26.00	373.08	17.70	17.68	468.88	183.28	173.36
P1462_039_Zrn_A_1_MBD_48	427.49	17.53	17.50	206Pb/238U	572	2.10	0.52379	0.03925	0.06856	0.00290	427.68	26.32	25.99	427.49	17.53	17.50	428.70	164.74	156.70
P1462_039_Zrn_A_1_MBD_86	442.36	23.38	23.33	206Pb/238U	133	2.74	0.55994	0.08137	0.07103	0.00388	451.49	53.67	52.28	442.36	23.38	23.33	498.26	327.46	297.03
P1462_039_Zrn_A_1_MBD_74	452.68	25.02	24.97	206Pb/238U	497	19.91	0.53929	0.04305	0.07275	0.00416	437.96	28.60	28.20	452.68	25.02	24.97	361.25	171.81	163.12
P1462_039_Zrn_A_1_MBD_15	470.11	15.32	15.30	206Pb/238U	481	1.33	0.59031	0.03672	0.07565	0.00255	471.07	23.58	23.31	470.11	15.32	15.30	475.75	136.89	131.28
P1462_039_Zrn_A_1_MBD_61	483.21	25.52	25.47	206Pb/238U	304	1.79	0.61420	0.05879	0.07784	0.00426	486.20	37.32	36.65	483.21	25.52	25.47	500.34	215.90	202.24
P1462_039_Zrn_A_1_MBD_7	483.53	13.36	13.35	206Pb/238U	327	1.17	0.60253	0.03373	0.07789	0.00223	478.84	21.48	21.26	483.53	13.36	13.35	456.43	126.43	121.63
P1462_039_Zrn_A_1_MBD_67	514.98	64.69	64.37	206Pb/238U	16	0.36	0.62824	0.13837	0.08316	0.01084	495.00	88.18	84.51	514.98	64.69	64.37	403.61	521.19	448.45
P1462_039_Zrn_A_1_MBD_56	521.48	26.27	26.21	206Pb/238U	239	2.85	0.69369	0.06503	0.08426	0.00441	535.01	39.37	38.62	521.48	26.27	26.21	593.13	196.85	185.37
P1462_039_Zrn_A_1_MBD_42	537.82	29.36	29.30	206Pb/238U	129	1.74	0.69134	0.05905	0.08701	0.00495	533.60	35.76	35.14	537.82	29.36	29.30	515.63	190.31	179.61
P1462_039_Zrn_A_1_MBD_3	541.94	17.54	17.52	206Pb/238U	576	2.01	0.69206	0.04389	0.08770	0.00296	534.04	26.51	26.17	541.94	17.54	17.52	500.42	141.27	135.29
P1462_039_Zrn_A_1_MBD_77	587.08	38.62	38.50	206Pb/238U	109	1.19	0.82814	0.11892	0.09535	0.00655	612.58	67.15	65.00	587.08	38.62	38.50	708.04	306.52	279.38
P1462_039_Zrn_A_1_MBD_89	591.90	39.43	39.31	206Pb/238U	58	0.95	0.86878	0.08433	0.09617	0.00669	634.91	46.34	45.31	591.90	39.43	39.31	791.16	219.58	205.22
P1462_039_Zrn_A_1_MBD_87	597.37	40.60	40.47	206Pb/238U	209	2.41	0.86663	0.08653	0.09710	0.00690	633.74	47.62	46.53	597.37	40.60	40.47	765.70	212.66	199.19
P1462_039_Zrn_A_1_MBD_60	620.50	50.30	50.11	206Pb/238U	23	1.54	0.82084	0.19074	0.10104	0.00858	608.52	109.25	103.67	620.50	50.30	50.11	564.13	541.10	462.41
P1462_039_Zrn_A_1_MBD_94	753.58	61.16	60.87	206Pb/238U	20	0.41	1.15236	0.19593	0.12401	0.01064	778.36	94.60	90.39	753.58	61.16	60.87	850.09	369.73	330.63
P1462_039_Zrn_A_1_MBD_75	808.44	41.48	41.35	206Pb/238U	496	2.72	1.24371	0.09418	0.13361	0.00728	820.56	43.07	42.18	808.44	41.48	41.35	853.54	143.50	137.20
P1462_039_Zrn_A_1_MBD_101	829.05	43.94	43.01	207Pb/235Uc	497	2.98	1.26255	0.09686	0.13112	0.00753	829.05	43.94	43.01	794.24	43.01	42.86	923.57	150.63	143.69
P1462_039_Zrn_A_1_MBD_64	829.91	50.15	49.95	206Pb/238U	69	1.86	1.24774	0.13244	0.13739	0.00883	822.39	60.73	58.96	829.91	50.15	49.95	802.09	212.75	199.24
P1462_039_Zrn_A_1_MBD_69	834.20	54.35	52.93	207Pb/235Uc	282	0.92	1.27406	0.12010	0.13661	0.00964	834.20	54.35	52.93	825.46	54.80	54.57	857.57	158.36	150.73
P1462_039_Zrn_A_1_MBD_102	835.21	51.17	50.97	206Pb/238U	96	3.40	1.45605	0.16940	0.13833	0.00902	912.38	71.27	68.85	835.21	51.17	50.97	1104.04	242.03	224.41
P1462_039_Zrn_A_1_MBD_22	847.24	29.14	29.08	206Pb/238U	477	2.56	1.33772	0.07534	0.14046	0.00515	862.24	32.99	32.46	847.24	29.14	29.08	900.98	104.70	101.30
P1462_039_Zrn_A_1_MBD_63	855.83	52.13	50.82	207Pb/235Uc	286	2.65	1.32301	0.11774	0.14176	0.00952	855.83	52.13	50.82	854.61	53.84	53.61	859.00	156.69	149.21
P1462_039_Zrn_A_1_MBD_84	861.20	56.20	55.96	206Pb/238U	58	3.42	1.49338	0.19146	0.14293	0.00994	927.69	79.51	76.51	861.20	56.20	55.96	1089.25	248.95	230.36
P1462_039_Zrn_A_1_MBD_92	863.56	43.37	43.22	206Pb/238U	73	2.80	1.38927	0.14319	0.14335	0.00768	884.39	61.78	59.96	863.56	43.37	43.22	936.85	208.02	194.99
P1462_039_Zrn_A_1_MBD_79	871.45	42.50	42.36	206Pb/238U	316	2.99	1.34637	0.11094	0.14475	0.00754	865.99	48.59	47.45	871.45	42.50	42.36	852.05	154.87	147.57
P1462_039_Zrn_A_1_MBD_96	872.73	40.35	40.22	206Pb/238U	313	0.45	1.38237	0.10267	0.14497	0.00715	881.45	44.24	43.29	872.73	40.35	40.22	903.40	141.82	135.65
P1462_039_Zrn_A_1_MBD_54	876.72	37.93	37.23	207Pb/235Uc	398	2.24	1.37131	0.08775	0.14205	0.00651	876.72	37.93	37.23	856.24	36.81	36.71	928.82	118.79	114.42
P1462_039_Zrn_A_1_MBD_73	881.20	46.16	45.14	207Pb/235Uc	382	5.63	1.38179	0.10706	0.14348	0.00805	881.20	46.16	45.14	864.30	45.46	45.29	923.88	143.34	137.03
P1462_039_Zrn_A_1_MBD_100	886.70	47.33	47.16	206Pb/238U	316	3.10	1.49447	0.12688	0.14746	0.00841	928.14	52.32	51.00	886.70	47.33	47.16	1027.90	153.35	146.11
P1462_039_Zrn_A_1_MBD_50	889.74	41.89	41.75	206Pb/238U	165	2.43	1.43789	0.12175	0.14800	0.00745	904.84	51.35	50.09	889.74	41.89	41.75	941.89	161.35	153.40
P1462_039_Zrn_A_1_MBD_97	891.31	48.52	48.34	206Pb/238U	374	3.86	1.38468	0.11610	0.14828	0.00863	882.43	50.04	48.84	891.31	48.52	48.34	860.23	162.00	154.02
P1462_039_Zrn_A_1_MBD_58	892.27	53.36	53.14	206Pb/238U	83	2.24	1.30066	0.12691	0.14845	0.00949	846.01	56.80	55.25	892.27	53.36	53.14	726.52	200.07	188.12
P1462_039_Zrn_A_1_MBD_83	902.63	43.53	43.39	206Pb/238U	153	2.84	1.48764	0.12196	0.15030	0.00775	925.35	50.40	49.18	902.63	43.53	43.39	979.91	157.44	149.84
P1462_039_Zrn_A_1_MBD_90	906.06	60.04	59.76	206Pb/238U	65	1.74	1.70945	0.21006	0.15091	0.01069	1012.08	80.29	77.23	906.06	60.04	59.76	1249.25	234.59	217.87
P1462_039_Zrn_A_1_MBD_59	907.43	60.90	60.61	206Pb/238U	81	2.64	1.44063	0.17370	0.15115	0.01085	905.98	73.58	71.01	907.43	60.90	60.61	902.46	252.35	233.45
P1462_039_Zrn_A_1_MBD_91	910.57	48.56	48.37	206Pb/238U	134	1.52	1.53376	0.14063	0.15171	0.00866	944.00	57.15	55.59	910.57	48.56	48.37	1022.83	174.15	164.88
P1462_039_Zrn_A_1_MBD_82	911.27	52.90	52.68	206Pb/238U	38	3.28	1.61048	0.20578	0.15184	0.00943	974.29	81.66	78.50	911.27	52.90	52.68	1119.23	249.84	231.09
P1462_039_Zrn_A_1_MBD_33	921.57	37.05	36.94	206Pb/238U	107	2.03	1.56438	0.11753	0.15368	0.00662	956.20	47.08	46.01	921.57	37.05	36.94	1036.75	148.90	142.06
P1462_039_Zrn_A_1_MBD_85	922.87	42.75	42.61	206Pb/238U	101	2.36	1.46196	0.13648	0.15392	0.00764	914.82	57.08	55.52	922.87	42.75	42.61	895.43	192.56	181.36
P1462_039_Zrn_A_1_MBD_68	924.67	56.91	55.36	207Pb/235Uc	194	3.79	1.48596	0.13740	0.15591	0.01143	924.67	56.91	55.36	933.98	63.92	63.61	902.52	160.32	152.48
P1462_039_Zrn_A_1_MBD_34	925.61	33.33	33.24	206Pb/238U	213	2.70	1.49726	0.09682	0.15441	0.00596	929.27	39.75	38.99	925.61	33.33	33.24	937.97	132.45	127.04

**Table 2.** U–Pb age data from the Cretaceous Colombian back–arc basin (*continued*).

Analysis name	Preferred age (Ma)	Sample GPS–540																	
		2 –sigma	2 +sigma	Age type	[U] (ppm)	U/Th	207Pb/235U Ratio	2 sigma	206Pb/238U Ratio	2 sigma	207Pb/235Uc age (Ma)	2 –sigma	2 +sigma	206Pb/238U age (Ma)	2 –sigma	2 +sigma	207Pb/206Pb age (Ma)	2 –sigma	2 +sigma
P1462_039_Zrn_A_1_MBD_9	926.12	39.77	39.65	206Pb/238U	79	1.09	1.40124	0.18446	0.15450	0.00711	889.46	79.54	76.54	926.12	39.77	39.65	799.37	287.17	263.09
P1462_039_Zrn_A_1_MBD_106	932.93	55.47	55.23	206Pb/238U	117	4.56	1.53268	0.15104	0.15572	0.00992	943.57	61.47	59.67	932.93	55.47	55.23	968.48	182.83	172.66
P1462_039_Zrn_A_1_MBD_109	936.39	45.57	45.41	206Pb/238U	87	1.27	1.49145	0.15421	0.15634	0.00816	926.91	63.84	61.90	936.39	45.57	45.41	904.42	212.75	199.16
P1462_039_Zrn_A_1_MBD_21	937.67	35.97	35.87	206Pb/238U	700	1.70	1.72838	0.12329	0.15657	0.00644	1019.15	46.41	45.37	937.67	35.97	35.87	1198.56	138.51	132.52
P1462_039_Zrn_A_1_MBD_104	938.66	53.27	51.90	207Pb/235Uc	213	1.01	1.52047	0.13050	0.14983	0.00992	938.66	53.27	51.90	900.00	55.74	55.50	1030.54	155.36	147.94
P1462_039_Zrn_A_1_MBD_46	946.52	34.43	34.34	206Pb/238U	726	66.49	1.57370	0.09581	0.15816	0.00618	959.89	38.16	37.45	946.52	34.43	34.34	990.65	118.20	113.86
P1462_039_Zrn_A_1_MBD_31	948.44	38.10	37.98	206Pb/238U	145	2.42	1.61153	0.14015	0.15850	0.00684	974.70	55.24	53.77	948.44	38.10	37.98	1034.36	180.77	170.79
P1462_039_Zrn_A_1_MBD_55	956.33	46.97	46.80	206Pb/238U	86	1.96	1.71604	0.16586	0.15992	0.00844	1014.55	62.97	61.08	956.33	46.97	46.80	1142.43	183.66	173.31
P1462_039_Zrn_A_1_MBD_25	956.94	30.97	30.89	206Pb/238U	139	5.61	1.61584	0.10474	0.16003	0.00557	976.38	41.07	40.26	956.94	30.97	30.89	1020.36	133.55	128.03
P1462_039_Zrn_A_1_MBD_37	957.15	44.60	43.64	207Pb/235Uc	226	3.28	1.56678	0.11151	0.15645	0.00825	957.15	44.60	43.64	936.99	46.09	45.93	1003.77	125.44	120.56
P1462_039_Zrn_A_1_MBD_65	959.31	55.20	54.96	206Pb/238U	135	3.96	1.53933	0.13616	0.16046	0.00991	946.24	55.19	53.73	959.31	55.20	54.96	915.93	180.92	171.00
P1462_039_Zrn_A_1_MBD_28	960.20	42.06	41.93	206Pb/238U	115	2.53	1.53765	0.11666	0.16062	0.00756	945.57	47.22	46.15	960.20	42.06	41.93	911.65	148.10	141.38
P1462_039_Zrn_A_1_MBD_99	962.63	54.42	53.00	207Pb/235Uc	155	4.20	1.58067	0.13646	0.16244	0.01032	962.63	54.42	53.00	970.33	57.37	57.12	945.09	161.17	153.23
P1462_039_Zrn_A_1_MBD_39	974.88	39.59	39.46	206Pb/238U	113	2.78	1.49831	0.12702	0.16326	0.00713	929.70	52.29	50.98	974.88	39.59	39.46	824.04	175.18	165.91
P1462_039_Zrn_A_1_MBD_105	982.56	53.80	53.57	206Pb/238U	142	3.45	1.57955	0.13856	0.16465	0.00970	962.19	55.29	53.82	982.56	53.80	53.57	915.93	171.91	162.93
P1462_039_Zrn_A_1_MBD_35	993.14	38.10	37.40	207Pb/235Uc	336	5.04	1.65937	0.09887	0.16990	0.00735	993.14	38.10	37.40	1011.56	40.54	40.41	952.67	115.87	111.71
P1462_039_Zrn_A_1_MBD_19	993.76	58.40	58.14	206Pb/238U	63	2.63	1.64762	0.21965	0.16667	0.01055	988.64	86.03	82.54	993.76	58.40	58.14	977.28	273.55	251.40
P1462_039_Zrn_A_1_MBD_18	994.56	29.72	29.65	206Pb/238U	391	3.06	1.69114	0.08046	0.16682	0.00537	1005.19	30.59	30.13	994.56	29.72	29.65	1028.44	96.51	93.59
P1462_039_Zrn_A_1_MBD_30	996.77	41.48	41.35	206Pb/238U	63	2.88	1.63528	0.13259	0.16722	0.00750	983.90	51.74	50.46	996.77	41.48	41.35	955.27	164.73	156.44
P1462_039_Zrn_A_1_MBD_27	996.89	36.06	35.96	206Pb/238U	152	2.96	1.60453	0.12832	0.16724	0.00652	971.98	50.65	49.42	996.89	36.06	35.96	916.09	166.91	158.43
P1462_039_Zrn_A_1_MBD_53	998.12	46.56	46.39	206Pb/238U	96	2.64	1.60661	0.13509	0.16746	0.00842	972.79	53.32	51.95	998.12	46.56	46.39	916.01	165.01	156.71
P1462_039_Zrn_A_1_MBD_36	999.04	77.76	77.29	206Pb/238U	20	2.55	1.50570	0.23943	0.16763	0.01404	932.70	99.42	94.78	999.04	77.76	77.29	779.05	331.95	300.22
P1462_039_Zrn_A_1_MBD_12	1008.90	38.83	38.72	206Pb/238U	68	2.08	1.81261	0.21145	0.16942	0.00703	1050.02	77.81	74.94	1008.90	38.83	38.72	1136.57	240.69	223.23
P1462_039_Zrn_A_1_MBD_11	1012.44	26.61	26.56	206Pb/238U	393	2.76	1.70298	0.08813	0.17006	0.00483	1009.65	33.38	32.84	1012.44	26.61	26.56	1003.60	104.69	101.27
P1462_039_Zrn_A_1_MBD_16	1014.30	34.57	34.48	206Pb/238U	298	3.41	1.67720	0.09453	0.17040	0.00627	999.92	36.17	35.54	1014.30	34.57	34.48	968.53	112.90	108.95
P1462_039_Zrn_A_1_MBD_10	1015.34	35.70	35.60	206Pb/238U	138	2.03	1.67844	0.10310	0.17059	0.00647	1000.39	39.47	38.71	1015.34	35.70	35.60	967.77	122.17	117.54
P1462_039_Zrn_A_1_MBD_23	1015.59	35.71	35.61	206Pb/238U	230	3.25	1.66406	0.09181	0.17063	0.00648	994.93	35.30	34.69	1015.59	35.71	35.61	949.65	107.47	103.88
P1462_039_Zrn_A_1_MBD_32	1019.49	39.66	39.54	206Pb/238U	353	2.69	1.89868	0.12993	0.17134	0.00720	1080.63	46.03	45.01	1019.49	39.66	39.54	1206.08	132.77	127.26
P1462_039_Zrn_A_1_MBD_13	1026.89	53.21	52.99	206Pb/238U	52	2.64	1.78396	0.17884	0.17268	0.00966	1039.62	66.30	64.20	1026.89	53.21	52.99	1066.50	209.79	196.44
P1462_039_Zrn_A_1_MBD_5	1027.48	37.34	36.67	207Pb/235Uc	227	3.20	1.75085	0.10024	0.17433	0.00716	1027.48	37.34	36.67	1035.91	39.38	39.26	1009.56	110.04	106.27
P1462_039_Zrn_A_1_MBD_6	1027.65	29.53	29.47	206Pb/238U	317	6.25	1.68470	0.10159	0.17282	0.00537	1002.76	38.79	38.06	1027.65	29.53	29.47	948.74	124.21	119.44
P1462_039_Zrn_A_1_MBD_93	1032.90	52.72	51.39	207Pb/235Uc	200	5.70	1.76559	0.14176	0.16664	0.01024	1032.90	52.72	51.39	993.55	56.73	56.48	1117.20	145.15	138.61
P1462_039_Zrn_A_1_MBD_78	1034.16	49.13	47.97	207Pb/235Uc	408	2.75	1.76902	0.13238	0.16743	0.00954	1034.16	49.13	47.97	997.94	52.80	52.59	1111.56	123.06	118.33
P1462_039_Zrn_A_1_MBD_8	1057.18	61.90	61.60	206Pb/238U	55	2.43	1.68193	0.20162	0.17821	0.01129	1001.71	77.81	74.93	1057.18	61.90	61.60	882.24	263.98	243.40
P1462_039_Zrn_A_1_MBD_62	1064.60	51.34	50.07	207Pb/235Uc	140	3.38	1.85328	0.14245	0.17837	0.00974	1064.60	51.34	50.07	1058.09	53.38	53.16	1077.96	147.17	140.47
P1462_039_Zrn_A_1_MBD_76	1072.96	50.83	49.59	207Pb/235Uc	223	4.36	1.87687	0.14223	0.18301	0.01017	1072.96	50.83	49.59	1083.40	55.54	55.30	1051.81	140.51	134.40
P1462_039_Zrn_A_1_MBD_88	1086.29	91.03	90.39	206Pb/238U	30	2.20	1.88036	0.29916	0.18354	0.01665	1074.19	108.30	102.81	1086.29	91.03	90.39	1049.72	318.75	288.95
P1462_039_Zrn_A_1_MBD_44	1092.73	45.93	45.77	206Pb/238U	102	1.88	1.99451	0.17767	0.18472	0.00843	1113.65	61.16	59.37	1092.73	45.93	45.77	1154.73	173.83	164.53
P1462_039_Zrn_A_1_MBD_0	1103.83	51.42	51.22	206Pb/238U	121	2.95	1.93619	0.14940	0.18677	0.00945	1093.68	52.33	51.02	1103.83	51.42	51.22	1073.54	159.39	151.57
P1462_039_Zrn_A_1_MBD_66	1117.33	72.11	69.63	207Pb/235Uc	91	2.26	2.00537	0.20968	0.18549	0.01524	1117.33	72.11	69.63	1096.91	83.15	82.62	1157.27	170.23	161.30
P1462_039_Zrn_A_1_MBD_26	1121.02	35.64	35.54	206Pb/238U	229	3.58	2.06892	0.11675	0.18993	0.00657	1138.58	39.00	38.27	1121.02	35.64	35.54	1172.19	109.43	105.67
P1462_039_Zrn_A_1_MBD_1	1127.85	34.08	33.52	207Pb/235Uc	321	2.80	2.03669	0.10107	0.19299	0.00764	1127.85	34.08	33.52	1137.53	41.37	41.24	1109.28	104.18	100.77

**Table 2.** U–Pb age data from the Cretaceous Colombian back–arc basin (*continued*).

Sample GPS–540																			
Analysis name	Preferred age (Ma)	2–sigma	2+sigma	Age type	[U] (ppm)	U/Th	207Pb/235U Ratio	2 sigma	206Pb/238U Ratio	2 sigma	207Pb/235Uc age (Ma)	2–sigma	2+sigma	206Pb/238U age (Ma)	2–sigma	2+sigma	207Pb/206Pb age (Ma)	2–sigma	2+sigma
P1462_039_Zrn_A_1_MBD_107	1132.91	52.80	51.46	207Pb/235Uc	141	2.30	2.05186	0.15665	0.18219	0.01045	1132.91	52.80	51.46	1078.93	57.08	56.83	1237.87	136.56	130.73
P1462_039_Zrn_A_1_MBD_20	1134.69	33.59	33.50	206Pb/238U	429	3.18	2.02126	0.10790	0.19246	0.00620	1122.68	36.59	35.94	1134.69	33.59	33.50	1099.52	106.26	102.72
P1462_039_Zrn_A_1_MBD_51	1190.72	51.32	51.12	206Pb/238U	146	2.27	2.17830	0.16219	0.20287	0.00956	1174.13	52.49	51.16	1190.72	51.32	51.12	1143.68	141.26	135.06
P1462_039_Zrn_A_1_MBD_14	1237.43	44.55	44.39	206Pb/238U	40	1.90	2.26708	0.23310	0.21162	0.00836	1202.11	73.77	71.18	1237.43	44.55	44.39	1139.17	211.30	197.72
P1462_039_Zrn_A_1_MBD_29	1332.88	45.35	44.36	207Pb/235Uc	333	2.15	2.71614	0.16414	0.21954	0.01088	1332.88	45.35	44.36	1279.43	57.65	57.40	1419.81	108.79	105.02
P1462_039_Zrn_A_1_MBD_108	1333.39	71.32	68.90	207Pb/235Uc	69	2.13	2.71802	0.25662	0.22838	0.01427	1333.39	71.32	68.90	1325.99	75.11	74.68	1345.29	172.37	163.13
P1462_039_Zrn_A_1_MBD_71	1374.49	58.33	56.70	207Pb/235Uc	555	2.94	2.87161	0.21924	0.23143	0.01248	1374.49	58.33	56.70	1342.01	65.49	65.16	1425.33	128.85	123.60
P1462_039_Zrn_A_1_MBD_57	1382.98	65.09	63.06	207Pb/235Uc	206	1.47	2.90408	0.24628	0.23118	0.01558	1382.98	65.09	63.06	1340.69	81.85	81.33	1448.86	134.73	128.98
P1462_039_Zrn_A_1_MBD_52	1426.83	47.71	46.61	207Pb/235Uc	462	2.22	3.07639	0.18929	0.23999	0.01015	1426.83	47.71	46.61	1386.65	52.88	52.66	1487.29	107.33	103.64
P1462_039_Zrn_A_1_MBD_4	1429.04	35.11	34.51	207Pb/235Uc	344	2.92	3.08527	0.14004	0.24313	0.00748	1429.04	35.11	34.51	1402.96	38.86	38.75	1468.09	80.67	78.57
P1462_039_Zrn_A_1_MBD_103	1429.57	79.11	76.14	207Pb/235Uc	81	1.50	3.08739	0.31232	0.23971	0.01530	1429.57	79.11	76.14	1385.17	79.82	79.33	1496.28	184.05	173.47
P1462_039_Zrn_A_1_MBD_81	1438.00	62.13	60.29	207Pb/235Uc	191	1.99	3.12147	0.24837	0.24523	0.01427	1438.00	62.13	60.29	1413.85	74.10	73.67	1473.90	126.46	121.38
P1462_039_Zrn_A_1_MBD_17	1444.29	35.23	34.63	207Pb/235Uc	483	1.44	3.14711	0.14266	0.24596	0.00780	1444.29	35.23	34.63	1417.59	40.42	40.29	1483.83	84.52	82.22
P1462_039_Zrn_A_1_MBD_80	1445.26	58.04	56.43	207Pb/235Uc	262	1.56	3.15105	0.23392	0.24960	0.01382	1445.26	58.04	56.43	1436.39	71.48	71.08	1458.33	119.94	115.37
P1462_039_Zrn_A_1_MBD_72	1446.59	56.48	54.95	207Pb/235Uc	381	1.69	3.15651	0.22803	0.24754	0.01397	1446.59	56.48	54.95	1425.79	72.40	71.99	1477.30	123.11	118.29
P1462_039_Zrn_A_1_MBD_49	1475.78	50.45	49.23	207Pb/235Uc	323	1.24	3.27774	0.20994	0.24754	0.00987	1475.78	50.45	49.23	1425.78	51.10	50.89	1548.45	113.97	109.82
P1462_039_Zrn_A_1_MBD_45	1492.89	62.96	61.06	207Pb/235Uc	193	2.07	3.35042	0.26560	0.25242	0.01309	1492.89	62.96	61.06	1450.92	67.57	67.21	1553.01	141.31	134.97
P1462_039_Zrn_A_1_MBD_24	1538.73	59.18	58.91	206Pb/238U	54	0.70	3.67390	0.28100	0.26959	0.01163	1565.71	61.98	60.15	1538.73	59.18	58.91	1602.29	144.15	137.54
P1462_039_Zrn_A_1_MBD_70	1614.42	79.95	76.92	207Pb/235Uc	118	1.16	3.90354	0.37858	0.25216	0.01533	1614.42	79.95	76.92	1449.63	79.14	78.66	1836.53	174.32	164.65
P1462_039_Zrn_A_1_MBD_41	1630.44	73.79	71.20	207Pb/235Uc	49	1.67	3.98156	0.35552	0.28618	0.02135	1630.44	73.79	71.20	1622.41	107.45	106.56	1640.82	145.81	139.04
P1462_039_Zrn_A_1_MBD_95	1637.37	66.58	64.46	207Pb/235Uc	74	1.47	4.01564	0.32354	0.27801	0.01590	1637.37	66.58	64.46	1581.33	80.46	79.97	1710.09	136.38	130.43
P1462_039_Zrn_A_1_MBD_40	1668.56	49.62	48.44	207Pb/235Uc	344	2.67	4.17214	0.24968	0.29378	0.01178	1668.56	49.62	48.44	1660.37	58.85	58.58	1678.89	106.40	102.75
P1462_039_Zrn_A_1_MBD_98	1895.78	84.83	81.43	207Pb/235Uc	78	1.41	5.46922	0.52933	0.32692	0.02114	1895.78	84.83	81.43	1823.45	103.13	102.31	1975.92	159.90	151.67
P1462_039_Zrn_A_1_MBD_2	1990.52	44.52	43.56	207Pb/235Uc	103	1.67	6.10187	0.30799	0.36913	0.01224	1990.52	44.52	43.56	2025.32	57.78	57.52	1954.57	95.77	92.76
P1462_039_Zrn_A_1_MBD_43	2111.71	50.72	49.48	207Pb/235Uc	535	1.55	7.00217	0.39475	0.37220	0.01588	2111.71	50.72	49.48	2039.72	74.82	74.38	2182.57	88.44	85.84

  

Sample GPS–541																			
Analysis name	Preferred age (Ma)	2–sigma	2+sigma	Age type	[U] (ppm)	U/Th	207Pb/235U Ratio	2 sigma	206Pb/238U Ratio	2 sigma	207Pb/235Uc age (Ma)	2–sigma	2+sigma	206Pb/238U age (Ma)	2–sigma	2+sigma	207Pb/206Pb age (Ma)	2–sigma	2+sigma
P1462_040_Zrn_A_1_MBD_26	134.22	14.70	14.69	206Pb/238U	273	1.03	0.16899	0.04414	0.02104	0.00233	158.54	38.71	37.99	134.22	14.70	14.69	539.35	667.31	551.65
P1462_040_Zrn_A_1_MBD_75	138.73	9.45	9.44	206Pb/238U	300	1.45	0.15184	0.03335	0.02175	0.00150	143.54	29.62	29.19	138.73	9.45	9.44	223.77	447.55	478.52
P1462_040_Zrn_A_1_MBD_70	145.48	8.81	8.80	206Pb/238U	197	1.45	0.16323	0.03071	0.02282	0.00140	153.53	26.99	26.64	145.48	8.81	8.80	279.62	467.57	408.61
P1462_040_Zrn_A_1_MBD_16	156.89	6.73	6.72	206Pb/238U	576	2.36	0.17399	0.01881	0.02464	0.00107	162.88	16.34	16.21	156.89	6.73	6.72	250.86	254.85	236.32
P1462_040_Zrn_A_1_MBD_105	175.04	9.29	9.28	206Pb/238U	442	0.49	0.18981	0.01686	0.02752	0.00148	176.47	14.44	14.34	175.04	9.29	9.28	195.70	212.33	199.35
P1462_040_Zrn_A_1_MBD_109	185.58	14.32	14.31	206Pb/238U	172	0.85	0.21357	0.03785	0.02921	0.00229	196.55	31.92	31.42	185.58	14.32	14.31	330.26	418.74	370.69
P1462_040_Zrn_A_1_MBD_108	190.87	10.07	10.06	206Pb/238U	323	0.92	0.21548	0.02391	0.03005	0.00161	198.14	20.07	19.88	190.87	10.07	10.06	285.61	262.22	242.59
P1462_040_Zrn_A_1_MBD_85	193.54	11.34	11.33	206Pb/238U	746	1.15	0.21697	0.02620	0.03048	0.00181	199.38	21.98	21.74	193.54	11.34	11.33	269.12	291.16	267.18
P1462_040_Zrn_A_1_MBD_53	193.62	15.77	15.75	206Pb/238U	241	0.96	0.21907	0.03547	0.03049	0.00252	201.14	29.76	29.33	193.62	15.77	15.75	290.18	363.93	327.17
P1462_040_Zrn_A_1_MBD_66	193.73	12.36	12.35	206Pb/238U	280	1.05	0.23163	0.03095	0.03051	0.00198	211.54	25.68	25.36	193.73	12.36	12.35	414.85	316.84	288.40
P1462_040_Zrn_A_1_MBD_78	194.88	8.55	8.55	206Pb/238U	456	0.66	0.21271	0.02422	0.03069	0.00137	195.83	20.38	20.18	194.88	8.55	8.55	207.28	270.98	250.18
P1462_040_Zrn_A_1_MBD_95	196.49	13.76	13.75	206Pb/238U	150	1.51	0.22370	0.02490	0.03095	0.00220	204.99	20.77	20.56	196.49	13.76	13.75	303.88	282.61	259.92
P1462_040_Zrn_A_1_MBD_81	198.97	12.41	12.40	206Pb/238U	273	1.15	0.23844	0.02175	0.03135	0.00198	217.14	17.91	17.76	198.97	12.41	12.40	418.96	206.74	194.24

**Table 2.** U–Pb age data from the Cretaceous Colombian back–arc basin (*continued*).

Analysis name	Preferred age (Ma)	Sample GPS–541																	
		2 –sigma	2 +sigma	Age type	[U] (ppm)	U/Th	207Pb/235U Ratio	2 sigma	206Pb/238U Ratio	2 sigma	207Pb/235Uc age (Ma)	2 –sigma	2 +sigma	206Pb/238U age (Ma)	2 –sigma	2 +sigma	207Pb/206Pb age (Ma)	2 –sigma	2 +sigma
P1462_040_Zrn_A_1_MBD_58	199.35	16.67	16.64	206Pb/238U	281	1.00	0.22000	0.02572	0.03141	0.00266	201.91	21.52	21.29	199.35	16.67	16.64	231.83	277.62	255.79
P1462_040_Zrn_A_1_MBD_57	200.04	12.05	12.04	206Pb/238U	462	7.23	0.21954	0.02662	0.03152	0.00193	201.53	22.29	22.05	200.04	12.05	12.04	219.06	299.16	273.99
P1462_040_Zrn_A_1_MBD_3	200.17	12.18	12.17	206Pb/238U	575	2.27	0.22737	0.03136	0.03154	0.00195	208.02	26.11	25.78	200.17	12.18	12.17	297.97	338.32	306.32
P1462_040_Zrn_A_1_MBD_45	201.63	12.86	12.85	206Pb/238U	158	0.63	0.21485	0.03148	0.03177	0.00206	197.62	26.49	26.14	201.63	12.86	12.85	149.95	299.90	337.42
P1462_040_Zrn_A_1_MBD_29	201.89	16.81	16.79	206Pb/238U	279	2.38	0.22398	0.03990	0.03181	0.00269	205.22	33.37	32.83	201.89	16.81	16.79	243.70	469.84	410.47
P1462_040_Zrn_A_1_MBD_73	203.33	13.77	13.75	206Pb/238U	349	1.01	0.22351	0.02630	0.03204	0.00220	204.83	21.95	21.71	203.33	13.77	13.75	222.15	280.06	257.87
P1462_040_Zrn_A_1_MBD_20	204.49	10.25	10.24	206Pb/238U	246	1.07	0.20738	0.02945	0.03223	0.00164	191.35	24.92	24.62	204.49	10.25	10.24	32.17	64.33	325.92
P1462_040_Zrn_A_1_MBD_18	206.01	10.75	10.74	206Pb/238U	302	0.85	0.22608	0.02646	0.03247	0.00172	206.96	22.03	21.80	206.01	10.75	10.74	217.72	280.63	258.36
P1462_040_Zrn_A_1_MBD_36	206.65	11.68	11.67	206Pb/238U	231	0.84	0.25259	0.04181	0.03258	0.00187	228.68	34.18	33.61	206.65	11.68	11.67	461.73	390.81	348.31
P1462_040_Zrn_A_1_MBD_47	208.10	8.37	8.37	206Pb/238U	1034	5.30	0.22645	0.01846	0.03281	0.00134	207.27	15.34	15.22	208.10	8.37	8.37	197.76	194.28	183.36
P1462_040_Zrn_A_1_MBD_38	208.51	11.37	11.36	206Pb/238U	145	1.10	0.25577	0.04133	0.03287	0.00182	231.26	33.70	33.15	208.51	11.37	11.36	469.28	383.10	342.16
P1462_040_Zrn_A_1_MBD_15	210.11	16.55	16.53	206Pb/238U	1260	0.92	0.31643	0.11400	0.03313	0.00265	279.15	89.89	86.08	210.11	16.55	16.53	906.82	854.79	670.40
P1462_040_Zrn_A_1_MBD_44	211.01	24.93	24.88	206Pb/238U	59	0.77	0.25657	0.09868	0.03327	0.00399	231.90	81.34	78.21	211.01	24.93	24.88	449.34	898.68	761.96
P1462_040_Zrn_A_1_MBD_72	213.51	9.39	9.38	206Pb/238U	317	1.45	0.23923	0.03360	0.03367	0.00150	217.79	27.72	27.34	213.51	9.39	9.38	264.30	337.24	305.49
P1462_040_Zrn_A_1_MBD_8	214.51	13.39	13.38	206Pb/238U	418	1.88	0.23565	0.02749	0.03384	0.00215	214.85	22.71	22.46	214.51	13.39	13.38	218.54	298.53	273.46
P1462_040_Zrn_A_1_MBD_67	218.29	26.05	25.99	206Pb/238U	443	1.43	0.31394	0.18351	0.03444	0.00418	277.23	147.00	137.08	218.29	26.05	25.99	809.81	1541.06	1030.20
P1462_040_Zrn_A_1_MBD_24	219.44	10.52	10.51	206Pb/238U	384	1.38	0.24865	0.02382	0.03463	0.00169	225.48	19.46	19.28	219.44	10.52	10.51	288.97	228.06	213.06
P1462_040_Zrn_A_1_MBD_21	219.73	14.59	14.58	206Pb/238U	473	0.67	0.24848	0.02557	0.03467	0.00234	225.34	20.91	20.69	219.73	14.59	14.58	284.28	259.42	240.20
P1462_040_Zrn_A_1_MBD_28	221.80	16.03	16.01	206Pb/238U	290	1.06	0.23706	0.02914	0.03501	0.00257	216.01	24.06	23.78	221.80	16.03	16.01	153.36	306.71	301.80
P1462_040_Zrn_A_1_MBD_31	222.41	14.38	14.37	206Pb/238U	209	0.61	0.23879	0.04186	0.03510	0.00231	217.43	34.61	34.03	222.41	14.38	14.37	163.80	327.59	389.54
P1462_040_Zrn_A_1_MBD_23	227.15	13.75	13.74	206Pb/238U	216	0.65	0.25855	0.03883	0.03586	0.00221	233.49	31.57	31.09	227.15	13.75	13.74	297.89	382.55	342.13
P1462_040_Zrn_A_1_MBD_37	230.82	9.93	9.93	206Pb/238U	336	1.32	0.26527	0.04095	0.03646	0.00160	238.91	33.13	32.60	230.82	9.93	9.93	319.17	365.80	328.62
P1462_040_Zrn_A_1_MBD_49	238.83	11.12	11.11	206Pb/238U	246	1.77	0.26016	0.03183	0.03774	0.00179	234.80	25.81	25.49	238.83	11.12	11.11	194.63	299.48	274.29
P1462_040_Zrn_A_1_MBD_7	298.89	14.31	14.30	206Pb/238U	660	3.44	0.36801	0.02410	0.04746	0.00232	318.18	17.97	17.81	298.89	14.31	14.30	461.93	139.31	133.51
P1462_040_Zrn_A_1_MBD_69	403.94	17.06	17.04	206Pb/238U	467	1.11	0.49490	0.04528	0.06467	0.00282	408.24	30.99	30.52	403.94	17.06	17.04	432.63	204.35	192.12
P1462_040_Zrn_A_1_MBD_77	427.07	16.14	16.12	206Pb/238U	1171	9.53	0.53554	0.03313	0.06849	0.00267	435.48	22.03	21.79	427.07	16.14	16.12	480.21	132.78	127.49
P1462_040_Zrn_A_1_MBD_74	429.35	22.48	22.44	206Pb/238U	584	1.16	0.53275	0.04706	0.06887	0.00372	433.63	31.42	30.94	429.35	22.48	22.44	456.43	199.76	188.04
P1462_040_Zrn_A_1_MBD_100	431.11	18.66	18.63	206Pb/238U	494	3.57	0.52931	0.03156	0.06916	0.00309	431.35	21.07	20.85	431.11	18.66	18.63	432.65	125.20	120.50
P1462_040_Zrn_A_1_MBD_88	432.42	70.70	70.31	206Pb/238U	8	1.14	0.48854	0.21420	0.06938	0.01170	403.92	151.64	141.10	432.42	70.70	70.31	244.00	488.01	900.90
P1462_040_Zrn_A_1_MBD_97	433.98	18.41	18.38	206Pb/238U	575	1.86	0.53149	0.04110	0.06964	0.00305	432.79	27.44	27.07	433.98	18.41	18.38	426.48	168.02	159.67
P1462_040_Zrn_A_1_MBD_83	438.36	20.38	20.35	206Pb/238U	823	0.94	0.56621	0.03596	0.07037	0.00338	455.56	23.45	23.18	438.36	20.38	20.35	543.31	138.60	132.83
P1462_040_Zrn_A_1_MBD_80	444.83	20.14	20.10	206Pb/238U	682	0.88	0.53697	0.03991	0.07144	0.00334	436.43	26.54	26.20	444.83	20.14	20.10	392.32	168.08	159.74
P1462_040_Zrn_A_1_MBD_61	449.05	28.86	28.80	206Pb/238U	363	2.21	0.61050	0.12184	0.07214	0.00480	483.88	78.31	75.40	449.05	28.86	28.80	652.41	452.18	395.63
P1462_040_Zrn_A_1_MBD_0	468.38	13.35	13.33	206Pb/238U	1633	1.57	0.57197	0.02502	0.07536	0.00223	459.29	16.22	16.10	468.38	13.35	13.33	414.07	98.86	95.91
P1462_040_Zrn_A_1_MBD_12	475.95	23.04	23.00	206Pb/238U	155	1.26	0.58824	0.05009	0.07663	0.00385	469.74	32.28	31.77	475.95	23.04	23.00	439.52	187.16	176.85
P1462_040_Zrn_A_1_MBD_34	477.58	27.75	27.69	206Pb/238U	204	3.35	0.58488	0.07342	0.07690	0.00463	467.59	47.59	46.50	477.58	27.75	27.69	418.84	292.89	268.42
P1462_040_Zrn_A_1_MBD_90	503.20	27.00	26.94	206Pb/238U	87	1.20	0.61011	0.10955	0.08119	0.00452	483.63	70.29	67.94	503.20	27.00	26.94	391.89	428.06	377.79
P1462_040_Zrn_A_1_MBD_55	541.30	20.59	20.56	206Pb/238U	196	1.43	0.72578	0.07957	0.08760	0.00347	554.07	47.36	46.28	541.30	20.59	20.56	606.91	241.84	224.72
P1462_040_Zrn_A_1_MBD_86	575.73	27.32	27.26	206Pb/238U	144	1.39	0.76221	0.05921	0.09342	0.00463	575.29	34.41	33.84	575.73	27.32	27.26	573.53	168.37	159.91
P1462_040_Zrn_A_1_MBD_76	602.59	25.09	25.04	206Pb/238U	380	2.42	0.79255	0.06123	0.09799	0.00427	592.62	34.98	34.39	602.59	25.09	25.04	554.62	164.98	156.86
P1462_040_Zrn_A_1_MBD_11	664.21	43.03	42.88	206Pb/238U	398	0.86	0.92010	0.22708	0.10853	0.00739	662.41	123.78	116.67	664.21	43.03	42.88	656.30	587.97	495.75
P1462_040_Zrn_A_1_MBD_101	881.82	55.69	55.45	206Pb/238U	122	2.98	1.52694	0.17466	0.14659	0.00988	941.27	71.43	69.00	881.82	55.69	55.45	1083.09	222.46	207.50



**Table 2.** U–Pb age data from the Cretaceous Colombian back–arc basin (*continued*).

Analysis name	Preferred age (Ma)	Sample GPS–541																	
		2–sigma	2 +sigma	Age type	[U] (ppm)	U/Th	207Pb/235U Ratio	2 sigma	206Pb/238U Ratio	2 sigma	207Pb/235Uc age (Ma)	2–sigma	2 +sigma	206Pb/238U age (Ma)	2–sigma	2 +sigma	207Pb/206Pb age (Ma)	2–sigma	2 +sigma
P1462_040_Zrn_A_1_MBD_98	881.92	39.46	39.34	206Pb/238U	390	1.36	1.31121	0.09512	0.14661	0.00701	850.66	42.22	41.36	881.92	39.46	39.34	769.98	142.22	136.07
P1462_040_Zrn_A_1_MBD_106	914.10	50.70	50.50	206Pb/238U	89	1.85	1.52040	0.14667	0.15235	0.00904	938.64	59.97	58.25	914.10	50.70	50.50	996.68	190.99	179.91
P1462_040_Zrn_A_1_MBD_87	917.80	39.91	39.79	206Pb/238U	122	4.04	1.54373	0.13989	0.15301	0.00713	947.99	56.62	55.08	917.80	39.91	39.79	1018.78	183.74	173.46
P1462_040_Zrn_A_1_MBD_5	937.07	40.28	39.50	207Pb/235Uc	175	2.07	1.51652	0.09884	0.15694	0.00800	937.07	40.28	39.50	939.74	44.67	44.52	930.80	117.74	113.45
P1462_040_Zrn_A_1_MBD_94	940.64	53.98	53.76	206Pb/238U	50	2.71	1.63323	0.21035	0.15710	0.00967	983.11	82.78	79.53	940.64	53.98	53.76	1079.18	262.04	241.54
P1462_040_Zrn_A_1_MBD_43	958.90	64.35	64.03	206Pb/238U	55	1.38	1.62006	0.22365	0.16038	0.01155	978.01	88.58	84.88	958.90	64.35	64.03	1021.19	271.27	249.42
P1462_040_Zrn_A_1_MBD_92	960.00	56.18	55.93	206Pb/238U	170	3.16	1.54489	0.16585	0.16058	0.01009	948.46	67.28	65.12	960.00	56.18	55.93	921.76	214.18	200.40
P1462_040_Zrn_A_1_MBD_107	964.98	43.75	42.83	207Pb/235Uc	430	2.96	1.58665	0.11026	0.15889	0.00792	964.98	43.75	42.83	950.63	44.15	43.99	997.83	124.90	120.06
P1462_040_Zrn_A_1_MBD_60	973.41	47.51	47.34	206Pb/238U	125	2.22	1.71933	0.15201	0.16300	0.00856	1015.77	57.57	55.98	973.41	47.51	47.34	1108.27	164.89	156.51
P1462_040_Zrn_A_1_MBD_91	973.48	68.92	68.56	206Pb/238U	43	1.65	1.58613	0.29917	0.16301	0.01240	964.78	121.00	114.19	973.48	68.92	68.56	945.00	398.84	353.49
P1462_040_Zrn_A_1_MBD_56	984.48	43.80	42.88	207Pb/235Uc	291	3.38	1.63680	0.11254	0.16081	0.00851	984.48	43.80	42.88	961.28	47.37	47.19	1036.58	119.22	114.80
P1462_040_Zrn_A_1_MBD_40	996.36	33.79	33.70	206Pb/238U	144	3.43	1.67668	0.11455	0.16714	0.00611	999.72	43.93	43.00	996.36	33.79	33.70	1007.11	143.19	136.87
P1462_040_Zrn_A_1_MBD_103	1000.94	39.69	38.93	207Pb/235Uc	375	7.43	1.67990	0.10374	0.16996	0.00780	1000.94	39.69	38.93	1011.88	43.04	42.90	977.07	113.09	109.11
P1462_040_Zrn_A_1_MBD_42	1003.50	39.65	39.53	206Pb/238U	239	2.77	1.77792	0.11463	0.16844	0.00718	1037.42	42.34	41.47	1003.50	39.65	39.53	1109.61	123.81	119.03
P1462_040_Zrn_A_1_MBD_64	1004.15	46.46	46.30	206Pb/238U	147	2.33	1.54762	0.13538	0.16856	0.00841	949.54	54.69	53.25	1004.15	46.46	46.30	825.01	179.82	170.06
P1462_040_Zrn_A_1_MBD_27	1010.52	45.09	44.93	206Pb/238U	143	1.87	1.61858	0.13996	0.16971	0.00817	977.44	55.01	53.56	1010.52	45.09	44.93	903.84	189.36	178.52
P1462_040_Zrn_A_1_MBD_19	1022.80	37.27	36.60	207Pb/235Uc	157	3.76	1.73820	0.09960	0.16973	0.00721	1022.80	37.27	36.60	1010.60	39.79	39.66	1048.98	122.20	117.56
P1462_040_Zrn_A_1_MBD_63	1076.20	56.55	56.30	206Pb/238U	71	1.48	1.77212	0.17906	0.18169	0.01034	1035.30	66.67	64.55	1076.20	56.55	56.30	949.90	201.20	188.98
P1462_040_Zrn_A_1_MBD_4	1081.66	47.54	47.36	206Pb/238U	131	3.73	1.76534	0.18226	0.18269	0.00871	1032.81	68.05	65.84	1081.66	47.54	47.36	930.77	211.70	198.22
P1462_040_Zrn_A_1_MBD_10	1089.03	53.85	53.62	206Pb/238U	121	2.79	1.83688	0.14612	0.18404	0.00987	1058.75	52.98	51.64	1089.03	53.85	53.62	996.84	174.93	165.59
P1462_040_Zrn_A_1_MBD_35	1103.87	41.75	40.91	207Pb/235Uc	146	4.06	1.96580	0.12070	0.17928	0.00803	1103.87	41.75	40.91	1063.04	43.95	43.80	1185.24	126.78	121.75
P1462_040_Zrn_A_1_MBD_13	1110.42	48.55	47.41	207Pb/235Uc	154	4.37	1.98499	0.14103	0.18500	0.01062	1110.42	48.55	47.41	1094.25	57.88	57.62	1142.23	155.15	147.70
P1462_040_Zrn_A_1_MBD_52	1150.45	46.72	45.67	207Pb/235Uc	111	4.61	2.10502	0.14125	0.19475	0.00857	1150.45	46.72	45.67	1147.06	46.31	46.14	1156.85	135.82	130.08
P1462_040_Zrn_A_1_MBD_102	1166.10	59.48	59.21	206Pb/238U	52	1.58	2.14966	0.23443	0.19828	0.01103	1164.94	77.02	74.20	1166.10	59.48	59.21	1162.79	212.76	198.98
P1462_040_Zrn_A_1_MBD_1	1201.21	31.33	30.86	207Pb/235Uc	717	1.54	2.26420	0.09995	0.20489	0.00669	1201.21	31.33	30.86	1201.55	35.84	35.74	1200.60	81.23	79.13
P1462_040_Zrn_A_1_MBD_104	1222.22	53.67	53.45	206Pb/238U	116	1.89	2.52496	0.20132	0.20876	0.01004	1279.25	58.84	57.18	1222.22	53.67	53.45	1376.38	144.92	138.32
P1462_040_Zrn_A_1_MBD_17	1264.83	37.73	37.05	207Pb/235Uc	603	3.19	2.47527	0.12796	0.22117	0.00944	1264.83	37.73	37.05	1288.08	49.94	49.75	1225.52	89.11	86.60
P1462_040_Zrn_A_1_MBD_30	1298.88	50.72	49.48	207Pb/235Uc	168	2.37	2.59379	0.17729	0.22342	0.00986	1298.88	50.72	49.48	1299.92	52.08	51.87	1297.17	122.95	118.19
P1462_040_Zrn_A_1_MBD_25	1318.89	30.85	30.39	207Pb/235Uc	404	2.38	2.66531	0.11052	0.22852	0.00594	1318.89	30.85	30.39	1326.75	31.20	31.12	1306.15	82.32	80.16
P1462_040_Zrn_A_1_MBD_99	1423.75	63.85	61.90	207Pb/235Uc	164	1.61	3.06406	0.25158	0.24007	0.01479	1423.75	63.85	61.90	1387.08	77.10	76.64	1479.03	129.59	124.26
P1462_040_Zrn_A_1_MBD_50	1467.97	57.63	57.38	206Pb/238U	44	1.42	3.15388	0.34899	0.25573	0.01120	1445.95	87.15	83.56	1467.97	57.63	57.38	1413.71	218.09	203.45
P1462_040_Zrn_A_1_MBD_89	1479.00	57.72	56.13	207Pb/235Uc	81	1.89	3.29133	0.24051	0.24620	0.01147	1479.00	57.72	56.13	1418.86	59.45	59.17	1566.38	127.50	122.32
P1462_040_Zrn_A_1_MBD_62	1485.97	56.64	55.11	207Pb/235Uc	179	1.50	3.32088	0.23771	0.25433	0.01584	1485.97	56.64	55.11	1460.79	81.68	81.17	1522.10	98.74	95.61
P1462_040_Zrn_A_1_MBD_96	1506.64	76.90	74.10	207Pb/235Uc	44	4.87	3.40975	0.32774	0.24731	0.01591	1506.64	76.90	74.10	1424.60	82.49	81.96	1623.98	173.81	164.29
P1462_040_Zrn_A_1_MBD_59	1535.46	52.51	51.19	207Pb/235Uc	148	1.58	3.53668	0.23161	0.27523	0.01617	1535.46	52.51	51.19	1567.30	82.00	81.48	1491.87	100.31	97.08
P1462_040_Zrn_A_1_MBD_6	1571.76	49.60	48.42	207Pb/235Uc	240	2.36	3.70179	0.22689	0.27444	0.01356	1571.76	49.60	48.42	1563.28	68.80	68.43	1583.15	105.96	102.35
P1462_040_Zrn_A_1_MBD_68	1619.36	44.30	43.35	207Pb/235Uc	276	2.32	3.92748	0.21264	0.28617	0.01097	1619.36	44.30	43.35	1622.35	55.13	54.89	1615.48	94.31	91.43
P1462_040_Zrn_A_1_MBD_82	1770.39	54.45	53.03	207Pb/235Uc	207	1.33	4.71773	0.30253	0.30927	0.01612	1770.39	54.45	53.03	1737.12	79.60	79.11	1809.87	95.66	92.68
P1462_040_Zrn_A_1_MBD_14	2006.63	64.70	62.70	207Pb/235Uc	583	1.36	6.21548	0.45252	0.35804	0.02383	2006.63	64.70	62.70	1972.89	113.61	112.62	2041.55	126.41	121.20

**Table 2.** U–Pb age data from the Cretaceous Colombian back–arc basin (*continued*).

Analysis name	Preferred age (Ma)	2 –sigma	2 +sigma	Age type	[U] (ppm)	U/Th	Sample GPS–543												
							207Pb/235U Ratio	2 sigma	206Pb/238U Ratio	2 sigma	207Pb/235Uc age (Ma)	2 –sigma	2 +sigma	206Pb/238U age (Ma)	2 –sigma	2 +sigma	207Pb/206Pb age (Ma)	2 –sigma	2 +sigma
P1462_072_Zrn_A_1_MBD_66	268.51	19.49	19.46	206Pb/238U	266	1.74	0.31255	0.03251	0.04253	0.00315	276.16	25.31	24.99	268.51	19.49	19.46	341.42	254.95	236.29
P1462_072_Zrn_A_1_MBD_101	346.04	17.44	17.42	206Pb/238U	140	2.41	0.45470	0.07741	0.05515	0.00285	380.57	54.76	53.32	346.04	17.44	17.42	596.36	399.68	354.99
P1462_072_Zrn_A_1_MBD_100	407.62	14.06	14.05	206Pb/238U	1144	2.50	0.50023	0.02735	0.06527	0.00232	411.86	18.60	18.43	407.62	14.06	14.05	435.69	114.86	110.89
P1462_072_Zrn_A_1_MBD_69	414.41	11.86	11.85	206Pb/238U	450	1.39	0.48610	0.04303	0.06640	0.00196	402.25	29.62	29.19	414.41	11.86	11.85	332.95	202.60	190.65
P1462_072_Zrn_A_1_MBD_88	418.62	19.42	19.39	206Pb/238U	90	0.57	0.48506	0.04883	0.06709	0.00321	401.54	33.66	33.12	418.62	19.42	19.39	304.40	240.65	224.00
P1462_072_Zrn_A_1_MBD_13	434.62	11.82	11.81	206Pb/238U	966	0.86	0.52672	0.02831	0.06975	0.00196	429.63	18.92	18.74	434.62	11.82	11.81	402.96	115.10	111.12
P1462_072_Zrn_A_1_MBD_78	464.72	28.79	28.73	206Pb/238U	210	1.46	0.54007	0.06683	0.07475	0.00480	438.47	44.55	43.59	464.72	28.79	28.73	302.91	293.59	269.18
P1462_072_Zrn_A_1_MBD_68	491.65	14.40	14.39	206Pb/238U	698	2.65	0.63832	0.03236	0.07925	0.00241	501.27	20.15	19.95	491.65	14.40	14.39	545.44	109.30	105.67
P1462_072_Zrn_A_1_MBD_42	511.44	15.61	15.59	206Pb/238U	885	0.59	0.68909	0.05018	0.08257	0.00262	532.25	30.39	29.94	511.44	15.61	15.59	622.51	149.47	142.74
P1462_072_Zrn_A_1_MBD_51	538.50	44.00	43.85	206Pb/238U	19	1.39	0.69179	0.16251	0.08712	0.00741	533.87	99.96	95.27	538.50	44.00	43.85	514.16	538.76	460.92
P1462_072_Zrn_A_1_MBD_18	540.85	22.76	22.72	206Pb/238U	480	1.91	0.70037	0.05304	0.08752	0.00384	539.01	31.92	31.43	540.85	22.76	22.72	531.22	151.39	144.54
P1462_072_Zrn_A_1_MBD_31	548.24	22.88	22.84	206Pb/238U	724	1.17	0.72828	0.05039	0.08877	0.00386	555.55	29.82	29.39	548.24	22.88	22.84	585.60	137.32	131.64
P1462_072_Zrn_A_1_MBD_85	590.96	26.45	26.40	206Pb/238U	138	1.71	0.82828	0.07073	0.09601	0.00449	612.66	39.67	38.91	590.96	26.45	26.40	693.73	182.44	172.48
P1462_072_Zrn_A_1_MBD_108	611.47	23.84	23.80	206Pb/238U	422	1.61	0.81139	0.05011	0.09950	0.00406	603.23	28.29	27.90	611.47	23.84	23.80	572.40	117.28	113.11
P1462_072_Zrn_A_1_MBD_36	614.33	21.53	21.49	206Pb/238U	212	1.66	0.86240	0.06733	0.09999	0.00367	631.43	37.05	36.38	614.33	21.53	21.49	693.18	165.99	157.71
P1462_072_Zrn_A_1_MBD_44	641.45	28.39	28.32	206Pb/238U	587	7.23	0.89095	0.08037	0.10462	0.00486	646.88	43.62	42.70	641.45	28.39	28.32	665.88	208.29	195.42
P1462_072_Zrn_A_1_MBD_21	651.57	44.32	44.17	206Pb/238U	38	0.59	0.92363	0.18371	0.10636	0.00759	664.28	99.36	94.73	651.57	44.32	44.17	707.65	435.91	382.96
P1462_072_Zrn_A_1_MBD_89	826.26	42.17	41.32	207Pb/235Uc	134	1.62	1.25634	0.09275	0.12995	0.00721	826.26	42.17	41.32	787.60	41.20	41.07	931.77	157.80	150.19
P1462_072_Zrn_A_1_MBD_102	890.97	40.95	40.82	206Pb/238U	157	1.24	1.40745	0.10483	0.14822	0.00728	892.08	44.70	43.74	890.97	40.95	40.82	894.85	135.93	130.25
P1462_072_Zrn_A_1_MBD_107	895.68	34.48	34.39	206Pb/238U	151	2.08	1.48489	0.10120	0.14906	0.00614	924.23	41.78	40.94	895.68	34.48	34.39	992.99	129.65	124.45
P1462_072_Zrn_A_1_MBD_17	907.65	28.56	28.50	206Pb/238U	359	2.18	1.46762	0.10532	0.15119	0.00509	917.15	43.81	42.88	907.65	28.56	28.50	940.06	142.08	135.87
P1462_072_Zrn_A_1_MBD_79	911.68	45.08	44.93	206Pb/238U	65	1.89	1.48672	0.17062	0.15191	0.00804	924.98	70.89	68.50	911.68	45.08	44.93	956.81	223.52	208.53
P1462_072_Zrn_A_1_MBD_104	911.94	52.67	52.46	206Pb/238U	54	3.79	1.57057	0.16317	0.15196	0.00939	958.65	65.50	63.45	911.94	52.67	52.46	1067.40	209.39	196.09
P1462_072_Zrn_A_1_MBD_5	915.22	37.02	36.91	206Pb/238U	62	0.81	1.45222	0.15426	0.15255	0.00661	910.79	64.90	62.89	915.22	37.02	36.91	900.08	226.27	210.96
P1462_072_Zrn_A_1_MBD_65	915.65	45.28	45.12	206Pb/238U	190	2.75	1.49453	0.11356	0.15262	0.00808	928.16	46.76	45.70	915.65	45.28	45.12	958.00	140.45	134.38
P1462_072_Zrn_A_1_MBD_77	916.27	37.17	37.06	206Pb/238U	79	2.00	1.49131	0.14068	0.15273	0.00664	926.85	58.16	56.54	916.27	37.17	37.06	952.10	186.01	175.51
P1462_072_Zrn_A_1_MBD_46	917.89	27.53	27.47	206Pb/238U	269	3.15	1.48207	0.10849	0.15302	0.00492	923.08	44.87	43.90	917.89	27.53	27.47	935.49	143.31	137.01
P1462_072_Zrn_A_1_MBD_98	921.20	28.43	28.37	206Pb/238U	317	2.26	1.48555	0.09441	0.15362	0.00508	924.50	38.94	38.21	921.20	28.43	28.37	932.39	127.83	122.79
P1462_072_Zrn_A_1_MBD_7	922.82	31.50	31.42	206Pb/238U	179	2.85	1.49637	0.10633	0.15390	0.00563	928.91	43.72	42.80	922.82	31.50	31.42	943.40	143.45	137.13
P1462_072_Zrn_A_1_MBD_87	924.08	28.89	28.83	206Pb/238U	112	1.95	1.52001	0.10982	0.15413	0.00517	938.48	44.74	43.77	924.08	28.89	28.83	972.43	145.34	138.85
P1462_072_Zrn_A_1_MBD_84	925.65	52.32	52.11	206Pb/238U	99	4.05	1.47291	0.17973	0.15441	0.00935	919.32	75.17	72.49	925.65	52.32	52.11	904.17	261.04	240.87
P1462_072_Zrn_A_1_MBD_109	926.79	35.14	34.54	207Pb/235Uc	336	2.97	1.49115	0.08546	0.14724	0.00602	926.79	35.14	34.54	885.49	33.87	33.79	1026.36	112.55	108.60
P1462_072_Zrn_A_1_MBD_38	929.11	25.68	25.63	206Pb/238U	564	4.17	1.56031	0.08163	0.15503	0.00460	954.59	32.63	32.12	929.11	25.68	25.63	1013.80	97.93	94.93
P1462_072_Zrn_A_1_MBD_30	930.43	29.35	29.28	206Pb/238U	270	6.46	1.55473	0.10835	0.15527	0.00525	952.37	43.53	42.61	930.43	29.35	29.28	1003.43	136.55	130.79
P1462_072_Zrn_A_1_MBD_62	932.58	31.66	31.58	206Pb/238U	238	1.86	1.51408	0.08537	0.15565	0.00567	936.09	34.78	34.19	932.58	31.66	31.58	944.37	107.54	103.94
P1462_072_Zrn_A_1_MBD_58	933.14	31.96	31.88	206Pb/238U	236	1.43	1.52409	0.10735	0.15575	0.00572	940.12	43.65	42.73	933.14	31.96	31.88	956.53	144.16	137.77
P1462_072_Zrn_A_1_MBD_27	934.37	38.45	38.34	206Pb/238U	76	2.20	1.62109	0.24442	0.15598	0.00688	978.41	96.96	92.55	934.37	38.45	38.34	1078.61	312.14	283.47
P1462_072_Zrn_A_1_MBD_25	936.39	30.97	30.90	206Pb/238U	208	2.79	1.50143	0.10898	0.15634	0.00555	930.97	44.73	43.76	936.39	30.97	30.90	918.15	147.72	141.03
P1462_072_Zrn_A_1_MBD_54	944.94	52.29	52.08	206Pb/238U	63	2.36	1.59895	0.20081	0.15787	0.00937	969.80	80.01	76.98	944.94	52.29	52.08	1026.56	242.87	225.21
P1462_072_Zrn_A_1_MBD_60	948.51	29.12	29.06	206Pb/238U	519	6.84	1.58522	0.09053	0.15851	0.00523	964.42	35.87	35.25	948.51	29.12	29.06	1000.88	109.38	105.66
P1462_072_Zrn_A_1_MBD_49	952.52	31.34	31.27	206Pb/238U	424	2.66	1.54264	0.08985	0.15923	0.00563	947.56	36.20	35.57	952.52	31.34	31.27	936.04	105.10	101.67
P1462_072_Zrn_A_1_MBD_24	955.45	23.28	23.24	206Pb/238U	1223	11.57	1.66569	0.08383	0.15976	0.00418	995.55	32.19	31.68	955.45	23.28	23.24	1084.97	97.55	94.56

**Table 2.** U–Pb age data from the Cretaceous Colombian back–arc basin (*continued*).

Sample GPS-543																			
Analysis name	Preferred age (Ma)	2–sigma	2 +sigma	Age type	[U] (ppm)	U/Th	207Pb/235U Ratio	2 sigma	206Pb/238U Ratio	2 sigma	207Pb/235Uc age (Ma)	2–sigma	2 +sigma	206Pb/238U age (Ma)	2–sigma	2 +sigma	207Pb/206Pb age (Ma)	2–sigma	2 +sigma
P1462_072_Zrn_A_1_MBD_86	955.91	34.29	34.20	206Pb/238U	215	3.51	1.58543	0.09686	0.15984	0.00616	964.50	38.40	37.69	955.91	34.29	34.20	984.15	115.70	111.55
P1462_072_Zrn_A_1_MBD_91	957.99	31.54	31.47	206Pb/238U	262	1.42	1.57126	0.09870	0.16022	0.00567	958.92	39.35	38.61	957.99	31.54	31.47	961.07	126.96	121.98
P1462_072_Zrn_A_1_MBD_57	959.46	42.94	42.80	206Pb/238U	58	2.20	1.66080	0.14190	0.16048	0.00772	993.68	54.88	53.44	959.46	42.94	42.80	1070.00	167.75	159.11
P1462_072_Zrn_A_1_MBD_8	962.64	33.02	32.93	206Pb/238U	129	1.72	1.62354	0.12520	0.16106	0.00594	979.36	49.04	47.89	962.64	33.02	32.93	1017.05	154.17	146.86
P1462_072_Zrn_A_1_MBD_10	964.22	24.63	24.58	206Pb/238U	472	2.36	1.58564	0.07456	0.16134	0.00443	964.59	29.49	29.07	964.22	24.63	24.58	965.44	97.33	94.37
P1462_072_Zrn_A_1_MBD_50	971.62	27.03	26.97	206Pb/238U	249	3.55	1.60134	0.11655	0.16267	0.00487	970.73	46.01	44.99	971.62	27.03	26.97	968.72	145.01	138.54
P1462_072_Zrn_A_1_MBD_12	978.13	28.31	28.25	206Pb/238U	284	2.08	1.65238	0.09216	0.16385	0.00511	990.46	35.59	34.98	978.13	28.31	28.25	1017.89	107.39	103.79
P1462_072_Zrn_A_1_MBD_15	979.86	31.35	31.28	206Pb/238U	266	3.19	1.70107	0.10991	0.16416	0.00566	1008.94	41.75	40.90	979.86	31.35	31.28	1072.61	126.61	121.63
P1462_072_Zrn_A_1_MBD_35	982.31	39.80	39.68	206Pb/238U	75	2.97	1.56027	0.12378	0.16460	0.00718	954.57	49.70	48.51	982.31	39.80	39.68	891.19	154.25	146.99
P1462_072_Zrn_A_1_MBD_6	985.85	33.09	33.01	206Pb/238U	139	1.45	1.64325	0.12248	0.16524	0.00597	986.96	47.60	46.51	985.85	33.09	33.01	989.43	152.91	145.72
P1462_072_Zrn_A_1_MBD_61	990.47	35.60	35.50	206Pb/238U	68	2.69	1.73575	0.14352	0.16608	0.00643	1021.89	53.98	52.58	990.47	35.60	35.50	1089.81	164.44	156.12
P1462_072_Zrn_A_1_MBD_43	991.83	35.86	35.76	206Pb/238U	114	2.29	1.62182	0.10258	0.16632	0.00648	978.69	40.12	39.34	991.83	35.86	35.76	949.34	126.40	121.46
P1462_072_Zrn_A_1_MBD_74	994.96	45.66	45.50	206Pb/238U	104	2.15	1.69080	0.12228	0.16689	0.00825	1005.06	46.68	45.63	994.96	45.66	45.50	1027.17	140.06	134.00
P1462_072_Zrn_A_1_MBD_39	999.73	34.86	34.76	206Pb/238U	94	2.47	1.58319	0.13470	0.16775	0.00631	963.62	53.65	52.27	999.73	34.86	34.76	882.14	173.98	164.80
P1462_072_Zrn_A_1_MBD_105	999.90	37.99	37.29	207Pb/235Uc	148	3.39	1.67716	0.09923	0.16732	0.00759	999.90	37.99	37.29	997.33	41.97	41.83	1005.56	121.89	117.28
P1462_072_Zrn_A_1_MBD_90	1004.45	35.25	35.15	206Pb/238U	128	2.50	1.78129	0.15375	0.16861	0.00638	1038.65	56.92	55.37	1004.45	35.25	35.15	1111.34	175.18	165.76
P1462_072_Zrn_A_1_MBD_14	1004.92	31.29	31.22	206Pb/238U	487	5.07	1.81251	0.09804	0.16870	0.00567	1049.99	35.71	35.09	1004.92	31.29	31.22	1144.96	104.46	101.03
P1462_072_Zrn_A_1_MBD_22	1005.92	46.73	46.56	206Pb/238U	59	2.20	1.61074	0.19488	0.16888	0.00846	974.40	77.24	74.41	1005.92	46.73	46.56	904.00	254.46	235.26
P1462_072_Zrn_A_1_MBD_106	1009.84	34.90	34.80	206Pb/238U	75	1.35	1.74142	0.17040	0.16959	0.00632	1023.99	64.11	62.15	1009.84	34.90	34.80	1054.35	198.68	186.68
P1462_072_Zrn_A_1_MBD_26	1011.13	27.36	27.30	206Pb/238U	163	2.12	1.70540	0.08573	0.16982	0.00496	1010.56	32.43	31.93	1011.13	27.36	27.30	1009.31	100.12	96.99
P1462_072_Zrn_A_1_MBD_20	1011.93	37.55	37.44	206Pb/238U	96	1.74	1.68708	0.14605	0.16997	0.00680	1003.66	55.95	54.45	1011.93	37.55	37.44	985.64	171.61	162.62
P1462_072_Zrn_A_1_MBD_28	1030.37	49.19	49.01	206Pb/238U	51	1.75	1.81261	0.17140	0.17332	0.00894	1050.02	62.84	60.95	1030.37	49.19	49.01	1091.14	187.92	177.13
P1462_072_Zrn_A_1_MBD_0	1033.00	56.77	56.52	206Pb/238U	207	1.92	1.81780	0.23574	0.17380	0.01031	1051.89	86.78	83.22	1033.00	56.77	56.52	1091.33	272.01	249.97
P1462_072_Zrn_A_1_MBD_1	1057.94	33.49	33.40	206Pb/238U	203	3.03	1.85098	0.10217	0.17835	0.00611	1063.78	36.72	36.06	1057.94	33.49	33.40	1075.77	105.06	101.60
P1462_072_Zrn_A_1_MBD_32	1060.42	30.65	30.58	206Pb/238U	268	3.35	1.86336	0.10692	0.17880	0.00560	1068.18	38.27	37.57	1060.42	30.65	30.58	1084.05	111.21	107.34
P1462_072_Zrn_A_1_MBD_16	1069.87	48.63	48.45	206Pb/238U	79	2.30	1.81380	0.14545	0.18053	0.00889	1050.45	53.18	51.82	1069.87	48.63	48.45	1010.30	172.28	163.21
P1462_072_Zrn_A_1_MBD_72	1086.56	40.59	39.80	207Pb/235Uc	367	3.48	1.91566	0.11540	0.18367	0.00777	1086.56	40.59	39.80	1087.01	42.40	42.26	1085.65	99.54	96.43
P1462_072_Zrn_A_1_MBD_71	1091.40	39.16	38.42	207Pb/235Uc	392	4.38	1.92959	0.11191	0.17419	0.00685	1091.40	39.16	38.42	1035.13	37.64	37.53	1205.43	104.52	101.08
P1462_072_Zrn_A_1_MBD_95	1102.82	32.81	32.72	206Pb/238U	165	1.42	2.03994	0.14952	0.18658	0.00603	1128.94	50.57	49.34	1102.82	32.81	32.72	1179.54	144.93	138.40
P1462_072_Zrn_A_1_MBD_2	1103.25	35.00	34.91	206Pb/238U	109	2.83	1.99014	0.11975	0.18666	0.00643	1112.17	41.08	40.26	1103.25	35.00	34.91	1129.66	122.23	117.56
P1462_072_Zrn_A_1_MBD_73	1131.03	35.93	35.31	207Pb/235Uc	567	4.33	2.04620	0.10684	0.18680	0.00665	1131.03	35.93	35.31	1104.03	36.16	36.06	1183.23	84.29	82.04
P1462_072_Zrn_A_1_MBD_103	1141.10	35.51	35.42	206Pb/238U	574	5.59	2.18651	0.11568	0.19365	0.00657	1176.75	37.20	36.53	1141.10	35.51	35.42	1242.92	99.16	96.05
P1462_072_Zrn_A_1_MBD_23	1179.00	37.27	37.16	206Pb/238U	169	1.48	2.14015	0.13270	0.20068	0.00693	1161.87	43.37	42.46	1179.00	37.27	37.16	1130.09	121.76	117.13
P1462_072_Zrn_A_1_MBD_76	1182.30	55.50	55.26	206Pb/238U	147	2.58	2.32478	0.18761	0.20130	0.01032	1219.89	58.12	56.50	1182.30	55.50	55.26	1286.98	136.81	130.94
P1462_072_Zrn_A_1_MBD_70	1182.33	38.99	38.87	206Pb/238U	525	2.74	2.23631	0.12638	0.20131	0.00725	1192.50	40.04	39.27	1182.33	38.99	38.87	1210.97	97.14	94.15
P1462_072_Zrn_A_1_MBD_40	1185.76	40.97	40.84	206Pb/238U	166	3.76	2.19186	0.14382	0.20194	0.00763	1178.46	46.27	45.24	1185.76	40.97	40.84	1165.07	119.16	114.71
P1462_072_Zrn_A_1_MBD_45	1192.73	38.04	37.92	206Pb/238U	78	1.68	2.26599	0.21343	0.20325	0.00709	1201.77	67.46	65.29	1192.73	38.04	37.92	1218.05	185.69	175.08
P1462_072_Zrn_A_1_MBD_48	1194.66	36.52	36.42	206Pb/238U	194	1.57	2.22791	0.14619	0.20361	0.00681	1189.86	46.52	45.47	1194.66	36.52	36.42	1181.14	120.74	116.17
P1462_072_Zrn_A_1_MBD_96	1216.04	62.72	62.42	206Pb/238U	106	1.61	2.39181	0.24530	0.20760	0.01172	1240.15	74.80	72.14	1216.04	62.72	62.42	1282.29	188.19	177.26
P1462_072_Zrn_A_1_MBD_75	1218.52	64.13	62.17	207Pb/235Uc	129	2.39	2.32031	0.20644	0.20390	0.01249	1218.52	64.13	62.17	1196.23	67.07	66.72	1258.20	139.49	133.40
P1462_072_Zrn_A_1_MBD_55	1254.81	49.11	47.95	207Pb/235Uc	162	2.08	2.44111	0.16442	0.21408	0.00952	1254.81	49.11	47.95	1250.52	50.67	50.47	1262.16	114.33	110.21
P1462_072_Zrn_A_1_MBD_41	1278.50	41.68	41.55	206Pb/238U	140	3.79	2.61351	0.16870	0.21936	0.00787	1304.44	47.97	46.86	1278.50	41.68	41.55	1347.37	116.40	112.11

**Table 2.** U–Pb age data from the Cretaceous Colombian back–arc basin (*continued*).

Sample GPS–543																			
Analysis name	Preferred age (Ma)	2 –sigma	2 +sigma	Age type	[U] (ppm)	U/Th	207Pb/235U Ratio	2 sigma	206Pb/238U Ratio	2 sigma	207Pb/235Uc age (Ma)	2 –sigma	2 +sigma	206Pb/238U age (Ma)	2 –sigma	2 +sigma	207Pb/206Pb age (Ma)	2 –sigma	2 +sigma
P1462_072_Zrn_A_1_MBD_97	1329.66	51.97	51.76	206Pb/238U	103	1.22	2.76572	0.22593	0.22908	0.00989	1346.34	61.85	60.02	1329.66	51.97	51.76	1372.94	157.30	149.56
P1462_072_Zrn_A_1_MBD_92	1343.20	61.99	60.15	207Pb/235Uc	92	2.51	2.75411	0.22571	0.22096	0.01149	1343.20	61.99	60.15	1286.94	60.81	60.52	1433.99	149.00	142.01
P1462_072_Zrn_A_1_MBD_34	1354.40	51.84	50.55	207Pb/235Uc	158	0.65	2.79576	0.19133	0.23457	0.01207	1354.40	51.84	50.55	1358.39	63.19	62.89	1348.12	97.56	94.53
P1462_072_Zrn_A_1_MBD_93	1386.27	33.33	33.24	206Pb/238U	511	1.65	2.98374	0.14214	0.23992	0.00640	1403.48	36.55	35.91	1386.27	33.33	33.24	1429.73	84.66	82.36
P1462_072_Zrn_A_1_MBD_37	1390.79	41.52	41.39	206Pb/238U	158	2.31	3.03336	0.17737	0.24079	0.00798	1416.05	45.15	44.17	1390.79	41.52	41.39	1454.27	101.65	98.35
P1462_072_Zrn_A_1_MBD_47	1416.10	35.94	35.84	206Pb/238U	615	3.29	3.22713	0.15984	0.24567	0.00694	1463.70	38.76	38.04	1416.10	35.94	35.84	1533.46	85.03	82.70
P1462_072_Zrn_A_1_MBD_83	1427.58	48.63	47.50	207Pb/235Uc	170	1.67	3.07939	0.19306	0.24220	0.00966	1427.58	48.63	47.50	1398.13	50.21	50.01	1471.76	109.49	105.66
P1462_072_Zrn_A_1_MBD_64	1440.39	58.50	56.86	207Pb/235Uc	114	4.88	3.13120	0.23461	0.24272	0.01219	1440.39	58.50	56.86	1400.81	63.40	63.09	1499.33	125.83	120.79
P1462_072_Zrn_A_1_MBD_81	1487.34	48.49	47.36	207Pb/235Uc	185	2.94	3.32671	0.20419	0.25401	0.00938	1487.34	48.49	47.36	1459.14	48.29	48.10	1527.79	104.93	101.40
P1462_072_Zrn_A_1_MBD_3	1492.10	40.58	39.79	207Pb/235Uc	291	2.19	3.34704	0.17201	0.26247	0.00793	1492.10	40.58	39.79	1502.49	40.58	40.45	1477.37	91.43	88.74
P1462_072_Zrn_A_1_MBD_29	1520.75	45.62	44.62	207Pb/235Uc	253	3.39	3.47146	0.19866	0.25887	0.00899	1520.75	45.62	44.62	1484.04	46.09	45.93	1572.24	93.06	90.26
P1462_072_Zrn_A_1_MBD_99	1523.69	40.89	40.76	206Pb/238U	119	2.62	3.48011	0.21349	0.26663	0.00802	1522.72	48.97	47.82	1523.69	40.89	40.76	1521.36	113.29	109.19
P1462_072_Zrn_A_1_MBD_33	1657.01	40.84	40.71	206Pb/238U	226	1.17	4.41732	0.22975	0.29310	0.00818	1715.59	43.53	42.61	1657.01	40.84	40.71	1787.87	90.45	87.78
P1462_072_Zrn_A_1_MBD_94	1675.95	46.58	45.53	207Pb/235Uc	201	1.41	4.20991	0.23626	0.29788	0.01050	1675.95	46.58	45.53	1680.79	52.28	52.07	1669.90	100.13	96.88
P1462_072_Zrn_A_1_MBD_67	1761.63	54.17	52.77	207Pb/235Uc	260	1.62	4.66861	0.29844	0.29870	0.01476	1761.63	54.17	52.77	1684.84	73.49	73.07	1853.95	90.33	87.66
P1462_072_Zrn_A_1_MBD_19	1767.70	48.95	47.79	207Pb/235Uc	311	3.22	4.70260	0.27161	0.32270	0.01602	1767.70	48.95	47.79	1802.88	78.31	77.84	1726.39	85.82	83.43
P1462_072_Zrn_A_1_MBD_80	1876.97	63.70	61.76	207Pb/235Uc	92	1.60	5.35048	0.39219	0.32302	0.01734	1876.97	63.70	61.76	1804.48	84.77	84.22	1958.18	98.79	95.59
P1462_072_Zrn_A_1_MBD_4	1929.30	40.03	39.26	207Pb/235Uc	533	4.17	5.68634	0.26103	0.34384	0.00939	1929.30	40.03	39.26	1905.11	45.11	44.95	1955.38	83.37	81.08
P1462_072_Zrn_A_1_MBD_82	2143.69	80.57	77.50	207Pb/235Uc	42	1.34	7.25823	0.64249	0.38766	0.01895	2143.69	80.57	77.50	2111.99	88.36	87.76	2174.21	147.98	140.85

  

Sample GPS–549																			
Analysis name	Preferred age (Ma)	2 –sigma	2 +sigma	Age type	[U] (ppm)	U/Th	207Pb/235U Ratio	2 sigma	206Pb/238U Ratio	2 sigma	207Pb/235Uc age (Ma)	2 –sigma	2 +sigma	206Pb/238U age (Ma)	2 –sigma	2 +sigma	207Pb/206Pb age (Ma)	2 –sigma	2 +sigma
P1462_078_Zrn_A_1_MBD_99	144.63	5.76	5.75	206Pb/238U	1237	0.59	0.16845	0.01638	0.02269	0.00091	158.07	14.28	14.18	144.63	5.76	5.75	364.53	221.29	207.08
P1462_078_Zrn_A_1_MBD_43	152.09	16.69	16.67	206Pb/238U	96	1.72	0.16767	0.05843	0.02387	0.00265	157.40	51.45	50.18	152.09	16.69	16.67	238.11	476.21	738.22
P1462_078_Zrn_A_1_MBD_15	154.15	7.07	7.07	206Pb/238U	409	0.95	0.15416	0.02034	0.02420	0.00112	145.58	17.98	17.82	154.15	7.07	7.07	8.05	16.10	298.97
P1462_078_Zrn_A_1_MBD_34	159.78	12.55	12.53	206Pb/238U	68	0.98	0.17621	0.04875	0.02509	0.00199	164.79	42.52	41.65	159.78	12.55	12.53	237.48	474.95	587.58
P1462_078_Zrn_A_1_MBD_56	164.47	5.55	5.55	206Pb/238U	912	1.04	0.17492	0.01489	0.02584	0.00088	163.68	12.91	12.82	164.47	5.55	5.55	152.19	197.32	186.09
P1462_078_Zrn_A_1_MBD_59	168.45	8.27	8.26	206Pb/238U	682	1.79	0.19063	0.02363	0.02647	0.00132	177.17	20.25	20.05	168.45	8.27	8.26	295.19	296.29	271.45
P1462_078_Zrn_A_1_MBD_29	169.35	7.15	7.15	206Pb/238U	458	0.99	0.17744	0.01669	0.02662	0.00114	165.85	14.44	14.34	169.35	7.15	7.15	116.27	228.03	213.21
P1462_078_Zrn_A_1_MBD_53	170.03	11.57	11.56	206Pb/238U	194	0.73	0.18143	0.02345	0.02673	0.00184	169.29	20.25	20.05	170.03	11.57	11.56	158.92	317.84	302.11
P1462_078_Zrn_A_1_MBD_20	173.77	7.62	7.62	206Pb/238U	644	0.74	0.18360	0.01634	0.02732	0.00121	171.15	14.07	13.97	173.77	7.62	7.62	135.13	206.26	194.04
P1462_078_Zrn_A_1_MBD_37	174.03	8.45	8.44	206Pb/238U	362	0.66	0.19514	0.02135	0.02736	0.00135	181.01	18.22	18.06	174.03	8.45	8.44	273.14	244.84	227.65
P1462_078_Zrn_A_1_MBD_50	174.32	11.19	11.18	206Pb/238U	444	0.94	0.20118	0.02095	0.02741	0.00178	186.12	17.79	17.63	174.32	11.19	11.18	338.69	223.92	209.40
P1462_078_Zrn_A_1_MBD_58	179.85	7.56	7.55	206Pb/238U	281	0.90	0.19090	0.02236	0.02829	0.00121	177.40	19.16	18.98	179.85	7.56	7.55	144.91	284.02	261.34
P1462_078_Zrn_A_1_MBD_102	182.05	14.81	14.79	206Pb/238U	91	0.44	0.21373	0.03646	0.02864	0.00236	196.68	30.73	30.27	182.05	14.81	14.79	376.02	424.43	375.00
P1462_078_Zrn_A_1_MBD_48	182.06	8.07	8.07	206Pb/238U	397	0.43	0.20192	0.02520	0.02865	0.00129	186.75	21.40	21.18	182.06	8.07	8.07	246.44	298.89	273.71
P1462_078_Zrn_A_1_MBD_69	183.24	10.78	10.77	206Pb/238U	237	0.94	0.19820	0.02488	0.02883	0.00172	183.61	21.19	20.97	183.24	10.78	10.77	188.31	320.63	291.93
P1462_078_Zrn_A_1_MBD_23	185.01	6.92	6.92	206Pb/238U	516	3.60	0.21334	0.02270	0.02912	0.00111	196.35	19.09	18.91	185.01	6.92	6.92	334.89	241.17	224.42
P1462_078_Zrn_A_1_MBD_8	185.77	11.48	11.47	206Pb/238U	146	1.09	0.20742	0.03386	0.02924	0.00183	191.39	28.67	28.27	185.77	11.48	11.47	261.20	403.35	358.76
P1462_078_Zrn_A_1_MBD_0	186.09	8.71	8.70	206Pb/238U	262	0.78	0.19300	0.02992	0.02929	0.00139	179.18	25.63	25.31	186.09	8.71	8.70	89.06	178.11	352.41
P1462_078_Zrn_A_1_MBD_106	188.26	9.13	9.13	206Pb/238U	920	0.53	0.22112	0.01963	0.02964	0.00146	202.84	16.39	16.26	188.26	9.13	9.13	375.86	188.18	177.80

**Table 2.** U–Pb age data from the Cretaceous Colombian back–arc basin (*continued*).

Analysis name	Sample GPS-549																		
	Preferred age (Ma)	2–sigma	2 +sigma	Age type	[U] (ppm)	U/Th	207Pb/235U Ratio	2 sigma	206Pb/238U Ratio	2 sigma	207Pb/235Uc age (Ma)	2–sigma	2 +sigma	206Pb/238U age (Ma)	2–sigma	2 +sigma	207Pb/206Pb age (Ma)	2–sigma	2 +sigma
P1462_078_Zrn_A_1_MBD_98	190.31	9.24	9.24	206Pb/238U	733	0.87	0.20530	0.01798	0.02996	0.00148	189.60	15.20	15.09	190.31	9.24	9.24	180.67	199.48	187.99
P1462_078_Zrn_A_1_MBD_91	191.15	18.05	18.03	206Pb/238U	70	0.96	0.21019	0.07960	0.03010	0.00288	193.71	67.91	65.71	191.15	18.05	18.03	224.99	449.99	781.49
P1462_078_Zrn_A_1_MBD_36	192.32	10.72	10.71	206Pb/238U	384	0.87	0.22046	0.02584	0.03028	0.00171	202.29	21.61	21.38	192.32	10.72	10.71	320.10	269.07	248.40
P1462_078_Zrn_A_1_MBD_66	192.65	11.92	11.90	206Pb/238U	428	1.65	0.22892	0.02470	0.03034	0.00190	209.30	20.51	20.31	192.65	11.92	11.90	401.21	252.27	233.92
P1462_078_Zrn_A_1_MBD_10	198.49	7.81	7.80	206Pb/238U	1022	0.93	0.21219	0.01730	0.03127	0.00125	195.39	14.54	14.44	198.49	7.81	7.80	158.15	184.10	174.29
P1462_078_Zrn_A_1_MBD_94	202.33	9.21	9.20	206Pb/238U	565	2.08	0.21393	0.01963	0.03188	0.00147	196.85	16.49	16.35	202.33	9.21	9.20	131.65	208.40	195.94
P1462_078_Zrn_A_1_MBD_17	207.36	12.45	12.44	206Pb/238U	413	1.44	0.23770	0.02610	0.03269	0.00199	216.53	21.52	21.30	207.36	12.45	12.44	317.55	255.08	236.43
P1462_078_Zrn_A_1_MBD_76	219.01	21.13	21.09	206Pb/238U	158	1.34	0.22720	0.04444	0.03456	0.00339	207.88	37.10	36.44	219.01	21.13	21.09	83.58	167.17	429.10
P1462_078_Zrn_A_1_MBD_46	221.99	9.11	9.10	206Pb/238U	942	1.03	0.26380	0.01985	0.03504	0.00146	237.72	16.01	15.89	221.99	9.11	9.10	396.18	157.75	150.38
P1462_078_Zrn_A_1_MBD_16	222.28	8.81	8.81	206Pb/238U	592	1.18	0.24363	0.02334	0.03508	0.00141	221.39	19.14	18.97	222.28	8.81	8.81	211.93	221.12	207.06
P1462_078_Zrn_A_1_MBD_12	226.69	10.77	10.77	206Pb/238U	160	1.22	0.24347	0.02662	0.03579	0.00173	221.26	21.86	21.62	226.69	10.77	10.77	163.85	258.11	239.22
P1462_078_Zrn_A_1_MBD_47	229.74	8.44	8.43	206Pb/238U	937	1.72	0.26663	0.01928	0.03628	0.00136	239.99	15.52	15.40	229.74	8.44	8.43	341.56	155.58	148.43
P1462_078_Zrn_A_1_MBD_45	237.70	11.44	11.43	206Pb/238U	98	1.93	0.28865	0.05214	0.03756	0.00184	257.50	41.50	40.67	237.70	11.44	11.43	441.84	424.30	374.71
P1462_078_Zrn_A_1_MBD_25	241.83	11.15	11.15	206Pb/238U	365	2.40	0.28053	0.01983	0.03823	0.00180	251.08	15.79	15.66	241.83	11.15	11.15	338.36	145.64	139.36
P1462_078_Zrn_A_1_MBD_13	322.58	14.69	14.67	206Pb/238U	2809	0.98	0.39466	0.02448	0.05131	0.00239	337.77	17.90	17.75	322.58	14.69	14.67	443.70	103.17	99.95
P1462_078_Zrn_A_1_MBD_72	325.77	13.98	13.96	206Pb/238U	240	1.37	0.42032	0.04574	0.05183	0.00228	356.28	32.97	32.44	325.77	13.98	13.96	560.16	236.21	219.90
P1462_078_Zrn_A_1_MBD_68	332.37	15.11	15.09	206Pb/238U	319	0.83	0.37224	0.04358	0.05291	0.00247	321.32	32.50	31.99	332.37	15.11	15.09	241.97	281.36	258.95
P1462_078_Zrn_A_1_MBD_11	351.20	18.17	18.15	206Pb/238U	473	2.32	0.41782	0.03563	0.05599	0.00297	354.49	25.68	25.36	351.20	18.17	18.15	376.06	166.09	157.95
P1462_078_Zrn_A_1_MBD_52	373.28	20.06	20.03	206Pb/238U	1332	7.54	0.45673	0.03605	0.05961	0.00330	381.98	25.29	24.98	373.28	20.06	20.03	435.09	177.15	167.88
P1462_078_Zrn_A_1_MBD_104	380.49	13.35	13.34	206Pb/238U	1644	1.79	0.46039	0.02781	0.06080	0.00220	384.53	19.43	19.24	380.49	13.35	13.34	408.90	127.70	122.82
P1462_078_Zrn_A_1_MBD_55	383.05	12.21	12.20	206Pb/238U	266	3.36	0.44832	0.04131	0.06122	0.00201	376.10	29.17	28.75	383.05	12.21	12.20	333.53	211.46	198.47
P1462_078_Zrn_A_1_MBD_97	386.79	16.27	16.25	206Pb/238U	780	5.64	0.48333	0.03269	0.06184	0.00268	400.36	22.50	22.25	386.79	16.27	16.25	479.42	143.45	137.30
P1462_078_Zrn_A_1_MBD_54	389.88	17.05	17.03	206Pb/238U	567	1.75	0.47602	0.03317	0.06235	0.00281	395.34	22.95	22.69	389.88	17.05	17.03	427.35	143.77	137.61
P1462_078_Zrn_A_1_MBD_42	396.93	13.16	13.15	206Pb/238U	706	3.24	0.48538	0.03118	0.06351	0.00217	401.76	21.43	21.20	396.93	13.16	13.15	429.61	132.89	127.61
P1462_078_Zrn_A_1_MBD_40	400.03	19.94	19.91	206Pb/238U	340	4.03	0.49071	0.04798	0.06402	0.00329	405.39	32.94	32.42	400.03	19.94	19.91	436.03	214.93	201.44
P1462_078_Zrn_A_1_MBD_77	401.15	13.33	13.31	206Pb/238U	540	1.69	0.48315	0.03856	0.06421	0.00220	400.23	26.57	26.23	401.15	13.33	13.31	394.90	178.16	168.82
P1462_078_Zrn_A_1_MBD_39	403.21	15.02	15.00	206Pb/238U	415	1.39	0.50720	0.04956	0.06455	0.00248	416.57	33.66	33.12	403.21	15.02	15.00	491.24	215.50	201.90
P1462_078_Zrn_A_1_MBD_101	405.66	14.34	14.33	206Pb/238U	731	2.12	0.49987	0.03573	0.06495	0.00237	411.61	24.33	24.05	405.66	14.34	14.33	445.10	151.33	144.51
P1462_078_Zrn_A_1_MBD_88	408.21	14.64	14.62	206Pb/238U	599	2.61	0.52466	0.04131	0.06537	0.00242	428.26	27.70	27.33	408.21	14.64	14.62	537.59	168.58	160.12
P1462_078_Zrn_A_1_MBD_5	410.42	11.78	11.77	206Pb/238U	977	5.06	0.50298	0.03008	0.06574	0.00195	413.72	20.42	20.22	410.42	11.78	11.77	432.13	126.38	121.60
P1462_078_Zrn_A_1_MBD_31	411.94	13.87	13.86	206Pb/238U	970	2.74	0.49475	0.02718	0.06599	0.00229	408.15	18.55	18.38	411.94	13.87	13.86	386.75	112.54	108.74
P1462_078_Zrn_A_1_MBD_75	412.21	19.19	19.16	206Pb/238U	404	1.60	0.50173	0.04112	0.06603	0.00317	412.87	27.99	27.61	412.21	19.19	19.16	416.60	168.14	159.78
P1462_078_Zrn_A_1_MBD_57	415.43	16.86	16.84	206Pb/238U	387	1.75	0.50056	0.03967	0.06657	0.00279	412.08	27.02	26.66	415.43	16.86	16.84	393.39	175.07	166.04
P1462_078_Zrn_A_1_MBD_83	417.62	22.40	22.36	206Pb/238U	140	1.66	0.52935	0.06119	0.06693	0.00370	431.38	41.04	40.23	417.62	22.40	22.36	505.56	252.28	233.82
P1462_078_Zrn_A_1_MBD_109	421.86	14.93	14.91	206Pb/238U	521	5.14	0.54977	0.03770	0.06763	0.00247	444.85	24.85	24.55	421.86	14.93	14.91	565.56	148.23	141.63
P1462_078_Zrn_A_1_MBD_93	422.68	14.63	14.61	206Pb/238U	664	1.35	0.50312	0.03901	0.06777	0.00242	413.81	26.53	26.18	422.68	14.63	14.61	364.68	174.69	165.71
P1462_078_Zrn_A_1_MBD_95	427.67	15.24	15.22	206Pb/238U	421	1.35	0.52868	0.04358	0.06859	0.00252	430.93	29.16	28.74	427.67	15.24	15.22	448.42	184.03	174.05
P1462_078_Zrn_A_1_MBD_18	428.50	15.24	15.22	206Pb/238U	568	2.41	0.50830	0.03895	0.06873	0.00252	417.31	26.39	26.05	428.50	15.24	15.22	355.88	161.60	153.89
P1462_078_Zrn_A_1_MBD_28	437.97	18.97	18.94	206Pb/238U	458	16.80	0.55105	0.03882	0.07030	0.00315	445.68	25.57	25.26	437.97	18.97	18.94	485.70	148.72	142.12
P1462_078_Zrn_A_1_MBD_90	458.32	17.00	16.98	206Pb/238U	598	3.40	0.55969	0.04831	0.07369	0.00283	451.32	31.70	31.21	458.32	17.00	16.98	415.85	193.92	182.88
P1462_078_Zrn_A_1_MBD_14	464.20	15.84	15.82	206Pb/238U	1139	3.42	0.55725	0.03232	0.07467	0.00264	449.73	21.18	20.96	464.20	15.84	15.82	376.40	113.97	110.08
P1462_078_Zrn_A_1_MBD_78	493.87	16.21	16.19	206Pb/238U	608	2.80	0.64914	0.04477	0.07962	0.00271	507.95	27.75	27.38	493.87	16.21	16.19	571.83	153.78	146.69



**Table 2.** U–Pb age data from the Cretaceous Colombian back–arc basin (*continued*).

Analysis name	Preferred age (Ma)	Sample GPS–549																	
		2 –sigma	2 +sigma	Age type	[U] (ppm)	U/Th	207Pb/235U Ratio	2 sigma	206Pb/238U Ratio	2 sigma	207Pb/235Uc age (Ma)	2 –sigma	2 +sigma	206Pb/238U age (Ma)	2 –sigma	2 +sigma	207Pb/206Pb age (Ma)	2 –sigma	2 +sigma
P1462_078_Zrn_A_1_MBD_2	541.57	53.89	52.49	207Pb/235Uc	281	1.15	0.70465	0.08928	0.08605	0.01031	541.57	53.89	52.49	532.11	61.36	61.07	581.56	111.17	107.42
P1462_078_Zrn_A_1_MBD_105	547.09	34.08	33.99	206Pb/238U	209	2.29	0.72198	0.06879	0.08857	0.00575	551.84	40.97	40.16	547.09	34.08	33.99	571.48	188.30	177.78
P1462_078_Zrn_A_1_MBD_92	554.12	27.80	27.43	207Pb/235Uc	759	0.88	0.72587	0.04694	0.08203	0.00430	554.12	27.80	27.43	508.22	25.66	25.61	747.51	158.21	150.63
P1462_078_Zrn_A_1_MBD_79	567.10	24.63	24.59	206Pb/238U	141	1.39	0.68932	0.09011	0.09196	0.00417	532.39	54.90	53.45	567.10	24.63	24.59	386.29	304.85	278.48
P1462_078_Zrn_A_1_MBD_70	578.51	20.96	20.92	206Pb/238U	333	2.63	0.75934	0.05503	0.09389	0.00355	573.63	32.01	31.51	578.51	20.96	20.92	554.33	154.98	147.79
P1462_078_Zrn_A_1_MBD_41	590.90	31.77	31.69	206Pb/238U	92	0.93	0.77482	0.09097	0.09600	0.00540	582.52	52.72	51.39	590.90	31.77	31.69	549.99	261.90	242.01
P1462_078_Zrn_A_1_MBD_80	592.90	22.18	22.14	206Pb/238U	259	0.60	0.76018	0.04537	0.09634	0.00377	574.11	26.34	26.01	592.90	22.18	22.14	500.43	126.71	121.88
P1462_078_Zrn_A_1_MBD_71	732.92	59.42	59.15	206Pb/238U	703	2.29	1.23231	0.14561	0.12041	0.01030	815.39	67.34	65.18	732.92	59.42	59.15	1047.61	208.18	195.05
P1462_078_Zrn_A_1_MBD_67	755.37	37.95	37.84	206Pb/238U	125	1.78	1.04547	0.12141	0.12432	0.00661	726.63	61.18	59.39	755.37	37.95	37.84	638.97	245.55	227.89
P1462_078_Zrn_A_1_MBD_51	798.75	28.27	28.21	206Pb/238U	250	0.55	1.16488	0.07421	0.13191	0.00496	784.25	35.11	34.51	798.75	28.27	28.21	743.20	126.95	122.03
P1462_078_Zrn_A_1_MBD_65	834.29	36.16	36.06	206Pb/238U	150	1.86	1.30079	0.09762	0.13817	0.00638	846.07	43.55	42.63	834.29	36.16	36.06	877.09	148.23	141.51
P1462_078_Zrn_A_1_MBD_6	846.91	27.48	27.42	206Pb/238U	224	1.89	1.30527	0.08091	0.14040	0.00486	848.05	35.95	35.33	846.91	27.48	27.42	851.03	120.70	116.21
P1462_078_Zrn_A_1_MBD_49	874.22	29.52	29.45	206Pb/238U	1596	29.84	1.48069	0.09088	0.14524	0.00524	922.51	37.54	36.86	874.22	29.52	29.45	1039.84	113.60	109.58
P1462_078_Zrn_A_1_MBD_19	879.17	25.78	25.73	206Pb/238U	762	2.85	1.41443	0.07569	0.14612	0.00458	895.02	32.08	31.58	879.17	25.78	25.73	934.39	95.78	92.92
P1462_078_Zrn_A_1_MBD_81	900.37	31.45	31.37	206Pb/238U	801	2.13	1.46212	0.09462	0.14989	0.00560	914.88	39.40	38.65	900.37	31.45	31.37	950.07	124.04	119.28
P1462_078_Zrn_A_1_MBD_7	939.68	47.68	47.51	206Pb/238U	2009	3.50	1.76041	0.14383	0.15693	0.00854	1031.00	53.61	52.23	939.68	47.68	47.51	1230.17	135.20	129.49
P1462_078_Zrn_A_1_MBD_35	958.54	31.21	31.14	206Pb/238U	373	2.61	1.55853	0.09711	0.16032	0.00561	953.88	38.91	38.18	958.54	31.21	31.14	943.15	115.48	111.35
P1462_078_Zrn_A_1_MBD_85	1011.87	41.54	40.71	207Pb/235Uc	439	3.01	1.70888	0.10970	0.16359	0.00804	1011.87	41.54	40.71	976.71	44.63	44.47	1088.77	103.00	99.67
P1462_078_Zrn_A_1_MBD_86	1049.34	77.32	74.48	207Pb/235Uc	772	4.67	1.81074	0.21000	0.16385	0.01572	1049.34	77.32	74.48	978.14	87.36	86.77	1200.68	236.24	219.33
P1462_078_Zrn_A_1_MBD_73	1057.17	47.06	46.89	206Pb/238U	204	2.43	1.83650	0.14809	0.17821	0.00859	1058.61	53.72	52.33	1057.17	47.06	46.89	1061.58	148.62	141.80
P1462_078_Zrn_A_1_MBD_61	1100.43	37.83	37.72	206Pb/238U	256	1.59	2.15144	0.13206	0.18614	0.00695	1165.52	43.00	42.11	1100.43	37.83	37.72	1288.56	110.18	106.34
P1462_078_Zrn_A_1_MBD_84	1121.72	43.72	43.58	206Pb/238U	104	1.40	1.88121	0.13544	0.19006	0.00806	1074.49	48.30	47.18	1121.72	43.72	43.58	979.87	138.22	132.33
P1462_078_Zrn_A_1_MBD_107	1147.17	55.99	54.49	207Pb/235Uc	159	1.91	2.09502	0.16834	0.19140	0.01036	1147.17	55.99	54.49	1128.97	56.16	55.91	1181.75	149.78	142.81
P1462_078_Zrn_A_1_MBD_87	1204.53	53.35	51.98	207Pb/235Uc	184	1.88	2.27486	0.16982	0.20481	0.01158	1204.53	53.35	51.98	1201.11	62.10	61.80	1210.65	109.97	106.16
P1462_078_Zrn_A_1_MBD_74	1228.82	53.80	52.41	207Pb/235Uc	101	1.76	2.35417	0.17538	0.19144	0.01010	1228.82	53.80	52.41	1129.19	54.75	54.52	1408.15	150.98	143.82
P1462_078_Zrn_A_1_MBD_60	1233.02	64.60	64.28	206Pb/238U	310	1.24	2.68465	0.25385	0.21079	0.01210	1324.24	71.19	68.78	1233.02	64.60	64.28	1475.04	168.93	159.98
P1462_078_Zrn_A_1_MBD_30	1250.84	121.92	115.02	207Pb/235Uc	296	0.97	2.42770	0.39947	0.18548	0.02747	1250.84	121.92	115.02	1096.85	150.25	148.52	1526.64	199.89	187.45
P1462_078_Zrn_A_1_MBD_89	1307.90	609.51	468.18	207Pb/235Uc	47	1.48	2.62583	1.88023	0.17993	0.09277	1307.90	609.51	468.18	1066.60	517.05	497.12	1728.99	2072.43	1214.20
P1462_078_Zrn_A_1_MBD_32	1318.48	49.61	48.42	207Pb/235Uc	274	1.62	2.66383	0.17683	0.21416	0.01076	1318.48	49.61	48.42	1250.96	57.28	57.02	1430.01	96.82	93.83
P1462_078_Zrn_A_1_MBD_63	1327.90	48.76	47.62	207Pb/235Uc	229	3.07	2.69798	0.17548	0.21861	0.00921	1327.90	48.76	47.62	1274.51	48.83	48.65	1415.10	110.84	106.93
P1462_078_Zrn_A_1_MBD_27	1344.91	46.39	45.35	207Pb/235Uc	623	2.42	2.76043	0.16984	0.22115	0.00991	1344.91	46.39	45.35	1287.95	52.44	52.22	1436.72	89.66	87.08
P1462_078_Zrn_A_1_MBD_96	1447.60	87.60	83.98	207Pb/235Uc	278	3.05	3.16064	0.35132	0.23248	0.01851	1447.60	87.60	83.98	1347.47	97.19	96.46	1597.89	192.34	180.76
P1462_078_Zrn_A_1_MBD_33	1600.29	116.55	110.22	207Pb/235Uc	283	2.09	3.83578	0.53943	0.25640	0.02331	1600.29	116.55	110.22	1471.38	120.15	119.04	1774.43	211.46	197.44
P1462_078_Zrn_A_1_MBD_26	1620.13	52.87	51.53	207Pb/235Uc	281	1.65	3.93119	0.25344	0.28388	0.01099	1620.13	52.87	51.53	1610.85	55.30	55.07	1632.20	102.39	99.00
P1462_078_Zrn_A_1_MBD_100	1828.56	94.36	91.45	207Pb/206Pb	348	1.58	4.80348	0.54050	0.31167	0.03246	1785.51	96.84	92.43	1748.90	160.55	158.57	1828.56	94.36	91.45
P1462_078_Zrn_A_1_MBD_103	1831.79	56.58	55.04	207Pb/235Uc	238	1.62	5.07414	0.33377	0.34269	0.01444	1831.79	56.58	55.04	1899.61	69.50	69.12	1755.56	107.95	104.17
P1462_078_Zrn_A_1_MBD_9	1849.82	51.04	49.79	207Pb/235Uc	255	0.56	5.18293	0.30691	0.31821	0.01071	1849.82	51.04	49.79	1780.98	52.47	52.26	1928.14	97.06	93.97
P1462_078_Zrn_A_1_MBD_38	1857.62	59.06	57.39	207Pb/235Uc	73	0.32	5.23063	0.35718	0.32013	0.01662	1857.62	59.06	57.39	1790.38	81.44	80.93	1933.75	102.67	99.22
P1462_078_Zrn_A_1_MBD_24	2130.46	60.33	58.59	207Pb/235Uc	304	0.85	7.15131	0.47721	0.37754	0.01770	2130.46	60.33	58.59	2064.77	83.08	82.55	2194.44	100.74	97.38

**Table 2.** U–Pb age data from the Cretaceous Colombian back–arc basin (*continued*).

Analysis name	Preferred age (Ma)	Sample GPS-551																	
		2–sigma	2 +sigma	Age type	[U] (ppm)	U/Th	207Pb/235U Ratio	2 sigma	206Pb/238U Ratio	2 sigma	207Pb/235Uc age (Ma)	2–sigma	2 +sigma	206Pb/238U age (Ma)	2–sigma	2 +sigma	207Pb/206Pb age (Ma)	2–sigma	2 +sigma
P1462_080_Zrn_A_1_MBD_105	255.94	10.70	10.69	206Pb/238U	80	1.18	0.29460	0.04995	0.04050	0.00173	262.17	39.56	38.80	255.94	10.70	10.69	318.22	414.03	367.02
P1462_080_Zrn_A_1_MBD_24	370.37	13.42	13.41	206Pb/238U	886	1.82	0.46287	0.02378	0.05914	0.00220	386.25	16.57	16.44	370.37	13.42	13.41	482.53	98.13	95.21
P1462_080_Zrn_A_1_MBD_36	384.95	13.79	13.78	206Pb/238U	354	2.36	0.46581	0.02656	0.06154	0.00227	388.29	18.49	18.32	384.95	13.79	13.78	408.19	125.38	120.68
P1462_080_Zrn_A_1_MBD_42	405.53	13.41	13.39	206Pb/238U	757	2.59	0.50034	0.02747	0.06493	0.00221	411.93	18.68	18.51	405.53	13.41	13.39	447.96	106.67	103.24
P1462_080_Zrn_A_1_MBD_62	406.17	14.15	14.14	206Pb/238U	406	2.92	0.49419	0.02924	0.06503	0.00234	407.76	19.97	19.77	406.17	14.15	14.14	416.81	126.37	121.59
P1462_080_Zrn_A_1_MBD_15	418.23	14.53	14.52	206Pb/238U	460	2.87	0.51375	0.03137	0.06703	0.00240	420.97	21.15	20.93	418.23	14.53	14.52	435.99	136.44	130.88
P1462_080_Zrn_A_1_MBD_10	420.24	12.25	12.24	206Pb/238U	527	1.21	0.51743	0.02419	0.06736	0.00203	423.43	16.25	16.12	420.24	12.25	12.24	440.83	101.38	98.28
P1462_080_Zrn_A_1_MBD_22	425.55	16.97	16.95	206Pb/238U	66	2.34	0.52525	0.06296	0.06824	0.00281	428.65	42.35	41.49	425.55	16.97	16.95	445.37	281.22	258.55
P1462_080_Zrn_A_1_MBD_4	464.84	13.23	13.22	206Pb/238U	129	1.59	0.55218	0.04289	0.07477	0.00220	446.43	28.25	27.86	464.84	13.23	13.22	352.61	181.58	171.91
P1462_080_Zrn_A_1_MBD_61	471.74	20.75	20.71	206Pb/238U	73	1.74	0.55798	0.05360	0.07592	0.00346	450.21	35.23	34.63	471.74	20.75	20.71	341.71	208.84	196.16
P1462_080_Zrn_A_1_MBD_49	518.17	42.40	42.26	206Pb/238U	269	1.64	0.70205	0.08046	0.08370	0.00712	540.01	48.57	47.44	518.17	42.40	42.26	633.32	187.54	177.06
P1462_080_Zrn_A_1_MBD_14	542.78	14.53	14.51	206Pb/238U	749	4.52	0.71131	0.02945	0.08784	0.00245	545.52	17.55	17.40	542.78	14.53	14.51	557.02	85.98	83.72
P1462_080_Zrn_A_1_MBD_82	549.38	19.36	19.33	206Pb/238U	216	1.78	0.70594	0.03940	0.08896	0.00327	542.34	23.59	23.31	549.38	19.36	19.33	512.83	108.70	105.13
P1462_080_Zrn_A_1_MBD_67	569.55	15.59	15.57	206Pb/238U	64	1.68	0.74276	0.06894	0.09237	0.00264	564.02	40.57	39.77	569.55	15.59	15.57	541.76	206.51	193.95
P1462_080_Zrn_A_1_MBD_94	595.14	17.05	17.02	206Pb/238U	114	2.31	0.75843	0.05516	0.09672	0.00290	573.11	32.11	31.61	595.14	17.05	17.02	486.67	166.30	158.08
P1462_080_Zrn_A_1_MBD_60	627.98	19.36	19.33	206Pb/238U	87	1.57	0.84686	0.07565	0.10232	0.00331	622.92	42.02	41.17	627.98	19.36	19.33	604.61	199.11	187.36
P1462_080_Zrn_A_1_MBD_92	630.09	22.21	22.17	206Pb/238U	136	2.44	0.87946	0.07601	0.10268	0.00380	640.69	41.48	40.65	630.09	22.21	22.17	678.26	187.40	176.91
P1462_080_Zrn_A_1_MBD_58	648.29	27.02	26.96	206Pb/238U	42	1.62	0.89643	0.13386	0.10580	0.00463	649.82	72.97	70.44	648.29	27.02	26.96	655.11	332.43	300.83
P1462_080_Zrn_A_1_MBD_74	652.20	17.00	16.97	206Pb/238U	215	14.91	0.87058	0.04717	0.10647	0.00292	635.88	25.77	25.44	652.20	17.00	16.97	578.29	113.57	109.66
P1462_080_Zrn_A_1_MBD_66	665.61	26.76	26.71	206Pb/238U	403	3.80	0.92041	0.05976	0.10877	0.00460	662.58	31.85	31.36	665.61	26.76	26.71	652.28	142.39	136.26
P1462_080_Zrn_A_1_MBD_95	711.28	42.10	41.96	206Pb/238U	326	3.32	1.03531	0.12008	0.11666	0.00728	721.58	60.81	59.04	711.28	42.10	41.96	753.72	261.86	241.74
P1462_080_Zrn_A_1_MBD_102	882.89	42.17	42.04	206Pb/238U	51	2.21	1.57644	0.13401	0.14678	0.00749	960.97	53.51	52.14	882.89	42.17	42.04	1144.19	159.06	151.24
P1462_080_Zrn_A_1_MBD_7	897.29	30.73	30.65	206Pb/238U	90	1.87	1.42904	0.09425	0.14934	0.00547	901.15	39.78	39.02	897.29	30.73	30.65	910.63	131.75	126.41
P1462_080_Zrn_A_1_MBD_37	910.36	36.86	36.20	207Pb/235Uc	283	2.87	1.45117	0.08817	0.15206	0.00747	910.36	36.86	36.20	912.51	41.84	41.70	905.15	111.62	107.76
P1462_080_Zrn_A_1_MBD_18	931.24	36.29	35.65	207Pb/235Uc	77	2.71	1.50210	0.08863	0.15964	0.00795	931.24	36.29	35.65	954.76	44.28	44.12	875.98	113.97	109.96
P1462_080_Zrn_A_1_MBD_1	956.75	26.68	26.63	206Pb/238U	103	2.47	1.52398	0.08943	0.15999	0.00480	940.08	36.30	35.66	956.75	26.68	26.63	901.23	118.94	114.57
P1462_080_Zrn_A_1_MBD_47	960.87	31.15	31.07	206Pb/238U	141	2.52	1.51714	0.10076	0.16074	0.00560	937.32	41.06	40.25	960.87	31.15	31.07	882.39	125.74	120.87
P1462_080_Zrn_A_1_MBD_50	965.26	57.82	56.22	207Pb/235Uc	81	1.72	1.58736	0.14527	0.16158	0.01099	965.26	57.82	56.22	965.57	61.11	60.82	964.56	148.98	142.16
P1462_080_Zrn_A_1_MBD_48	965.90	37.10	36.99	206Pb/238U	39	2.14	1.57848	0.11255	0.16164	0.00668	961.77	44.81	43.85	965.90	37.10	36.99	952.33	136.41	130.68
P1462_080_Zrn_A_1_MBD_78	968.00	29.83	29.76	206Pb/238U	100	5.17	1.57060	0.08919	0.16202	0.00537	958.66	35.54	34.93	968.00	29.83	29.76	937.29	109.26	105.55
P1462_080_Zrn_A_1_MBD_12	968.36	36.90	36.24	207Pb/235Uc	63	2.45	1.59528	0.09346	0.16184	0.00679	968.36	36.90	36.24	966.97	37.71	37.60	971.53	117.41	113.13
P1462_080_Zrn_A_1_MBD_21	970.76	30.04	29.97	206Pb/238U	81	2.99	1.65119	0.12224	0.16252	0.00541	990.01	47.37	46.29	970.76	30.04	29.97	1032.92	152.84	145.65
P1462_080_Zrn_A_1_MBD_6	974.43	38.20	38.09	206Pb/238U	65	1.48	1.61459	0.12768	0.16318	0.00688	975.89	50.20	48.99	974.43	38.20	38.09	979.19	164.11	155.87
P1462_080_Zrn_A_1_MBD_108	974.99	25.94	25.89	206Pb/238U	81	2.34	1.60503	0.08907	0.16328	0.00468	972.17	35.02	34.43	974.99	25.94	25.89	965.80	110.91	107.09
P1462_080_Zrn_A_1_MBD_40	975.40	38.62	38.51	206Pb/238U	50	1.93	1.58499	0.11142	0.16336	0.00696	964.33	44.25	43.30	975.40	38.62	38.51	939.19	137.63	131.81
P1462_080_Zrn_A_1_MBD_8	976.92	53.79	53.57	206Pb/238U	26	1.82	1.57020	0.29482	0.16363	0.00969	958.51	119.94	113.25	976.92	53.79	53.57	916.49	405.99	359.16
P1462_080_Zrn_A_1_MBD_31	978.01	35.45	35.35	206Pb/238U	93	3.45	1.61396	0.12836	0.16383	0.00639	975.65	50.48	49.26	978.01	35.45	35.35	970.35	158.89	151.16
P1462_080_Zrn_A_1_MBD_43	979.36	27.04	26.99	206Pb/238U	199	4.05	1.59383	0.07369	0.16407	0.00488	967.80	29.05	28.64	979.36	27.04	26.99	941.63	87.95	85.53
P1462_080_Zrn_A_1_MBD_17	988.48	26.22	26.17	206Pb/238U	77	2.59	1.69595	0.12895	0.16572	0.00474	1007.01	49.16	48.00	988.48	26.22	26.17	1047.54	156.93	149.35
P1462_080_Zrn_A_1_MBD_34	989.96	34.25	34.16	206Pb/238U	146	7.12	1.57052	0.09156	0.16599	0.00619	958.63	36.49	35.85	989.96	34.25	34.16	887.42	103.80	100.46
P1462_080_Zrn_A_1_MBD_20	991.55	34.34	34.25	206Pb/238U	98	2.60	1.58189	0.08804	0.16627	0.00620	963.11	34.92	34.33	991.55	34.34	34.25	898.75	107.53	103.94
P1462_080_Zrn_A_1_MBD_107	997.59	30.97	30.51	207Pb/235Uc	256	3.58	1.67107	0.08086	0.16681	0.00609	997.59	30.97	30.51	994.53	33.68	33.59	1004.33	78.20	76.27

**Table 2.** U–Pb age data from the Cretaceous Colombian back–arc basin (*continued*).

Analysis name	Preferred age (Ma)	Sample GPS–551																	
		2 –sigma	2 +sigma	Age type	[U] (ppm)	U/Th	207Pb/235U Ratio	2 sigma	206Pb/238U Ratio	2 sigma	207Pb/235Uc age (Ma)	2 –sigma	2 +sigma	206Pb/238U age (Ma)	2 –sigma	2 +sigma	207Pb/206Pb age (Ma)	2 –sigma	2 +sigma
P1462_080_Zrn_A_1_MBD_46	1000.45	26.37	26.32	206Pb/238U	121	4.67	1.64947	0.09054	0.16789	0.00477	989.35	35.00	34.40	1000.45	26.37	26.32	964.80	106.60	103.07
P1462_080_Zrn_A_1_MBD_101	1000.65	28.70	28.64	206Pb/238U	156	2.15	1.62485	0.09487	0.16792	0.00519	979.87	37.03	36.37	1000.65	28.70	28.64	933.59	115.70	111.56
P1462_080_Zrn_A_1_MBD_29	1001.78	38.95	38.21	207Pb/235Uc	79	1.18	1.68211	0.10190	0.17111	0.00718	1001.78	38.95	38.21	1018.21	39.59	39.47	966.02	125.07	120.23
P1462_080_Zrn_A_1_MBD_5	1002.98	37.55	37.44	206Pb/238U	52	3.87	1.76048	0.16472	0.16834	0.00680	1031.03	61.51	59.70	1002.98	37.55	37.44	1091.01	183.91	173.57
P1462_080_Zrn_A_1_MBD_53	1004.65	36.00	35.38	207Pb/235Uc	51	2.81	1.68970	0.09453	0.16969	0.00717	1004.65	36.00	35.38	1010.41	39.57	39.45	992.11	112.59	108.65
P1462_080_Zrn_A_1_MBD_70	1006.94	48.75	48.57	206Pb/238U	33	1.68	1.80495	0.15384	0.16906	0.00882	1047.25	56.47	54.94	1006.94	48.75	48.57	1132.32	162.03	153.93
P1462_080_Zrn_A_1_MBD_33	1007.63	26.96	26.91	206Pb/238U	139	4.24	1.69971	0.08655	0.16919	0.00489	1008.42	32.82	32.30	1007.63	26.96	26.91	1010.14	99.01	95.95
P1462_080_Zrn_A_1_MBD_9	1007.82	24.04	23.75	207Pb/235Uc	1133	4.93	1.69812	0.06349	0.17114	0.00477	1007.82	24.04	23.75	1018.39	26.26	26.21	984.91	70.26	68.70
P1462_080_Zrn_A_1_MBD_75	1009.61	38.81	38.70	206Pb/238U	31	5.72	1.68583	0.14362	0.16955	0.00703	1003.19	55.03	53.58	1009.61	38.81	38.70	989.18	172.64	163.54
P1462_080_Zrn_A_1_MBD_83	1010.68	25.42	25.37	206Pb/238U	102	5.64	1.70881	0.08418	0.16974	0.00461	1011.84	31.80	31.31	1010.68	25.42	25.37	1014.36	94.66	91.85
P1462_080_Zrn_A_1_MBD_16	1015.14	33.94	33.85	206Pb/238U	71	4.73	1.72715	0.10276	0.17055	0.00615	1018.69	38.62	37.90	1015.14	33.94	33.85	1026.32	111.88	107.98
P1462_080_Zrn_A_1_MBD_85	1019.25	28.29	28.23	206Pb/238U	33	2.00	1.75273	0.14145	0.17130	0.00513	1028.17	52.86	51.52	1019.25	28.29	28.23	1047.21	162.42	154.32
P1462_080_Zrn_A_1_MBD_97	1027.71	29.99	29.92	206Pb/238U	103	2.28	1.76743	0.10286	0.17283	0.00545	1033.58	38.10	37.40	1027.71	29.99	29.92	1046.01	109.71	105.95
P1462_080_Zrn_A_1_MBD_19	1029.81	34.72	34.62	206Pb/238U	61	0.78	1.77414	0.10835	0.17322	0.00631	1036.04	40.05	39.27	1029.81	34.72	34.62	1049.20	118.31	113.95
P1462_080_Zrn_A_1_MBD_45	1032.20	46.63	45.58	207Pb/235Uc	70	2.96	1.76368	0.12546	0.17261	0.00951	1032.20	46.63	45.58	1026.46	52.38	52.17	1044.39	115.11	110.98
P1462_080_Zrn_A_1_MBD_90	1038.58	39.16	39.04	206Pb/238U	35	3.65	1.74459	0.17080	0.17481	0.00713	1025.16	64.19	62.23	1038.58	39.16	39.04	996.64	205.27	192.52
P1462_080_Zrn_A_1_MBD_104	1040.95	87.40	86.81	206Pb/238U	8	3.66	1.61056	0.32946	0.17525	0.01588	974.33	132.37	124.26	1040.95	87.40	86.81	826.99	424.56	373.86
P1462_080_Zrn_A_1_MBD_55	1042.90	55.01	54.78	206Pb/238U	56	3.10	1.73346	0.14723	0.17560	0.01001	1021.04	55.44	53.97	1042.90	55.01	54.78	974.44	166.99	158.47
P1462_080_Zrn_A_1_MBD_51	1045.99	35.84	35.74	206Pb/238U	136	4.21	1.81174	0.10185	0.17616	0.00653	1049.71	37.12	36.45	1045.99	35.84	35.74	1057.45	94.89	92.06
P1462_080_Zrn_A_1_MBD_27	1048.36	35.90	35.80	206Pb/238U	69	3.93	1.77356	0.13301	0.17660	0.00654	1035.82	49.29	48.12	1048.36	35.90	35.80	1009.45	154.33	147.01
P1462_080_Zrn_A_1_MBD_87	1055.63	25.96	25.91	206Pb/238U	100	3.78	1.78349	0.10615	0.17792	0.00474	1039.45	39.10	38.36	1055.63	25.96	25.91	1005.60	122.56	117.90
P1462_080_Zrn_A_1_MBD_106	1056.42	26.96	26.90	206Pb/238U	131	4.19	1.86450	0.09198	0.17807	0.00492	1068.58	32.87	32.34	1056.42	26.96	26.90	1093.50	90.57	87.99
P1462_080_Zrn_A_1_MBD_80	1073.27	32.77	32.69	206Pb/238U	459	40.77	1.90144	0.09465	0.18115	0.00600	1081.59	33.40	32.86	1073.27	32.77	32.69	1098.41	91.11	88.49
P1462_080_Zrn_A_1_MBD_89	1076.16	40.44	39.65	207Pb/235Uc	55	4.70	1.88595	0.11381	0.18599	0.00824	1076.16	40.44	39.65	1099.62	44.86	44.70	1028.93	117.96	113.63
P1462_080_Zrn_A_1_MBD_86	1085.74	30.49	30.04	207Pb/235Uc	186	3.10	1.91331	0.08683	0.18628	0.00603	1085.74	30.49	30.04	1101.17	32.80	32.72	1054.92	84.82	82.56
P1462_080_Zrn_A_1_MBD_13	1098.40	34.88	34.78	206Pb/238U	209	1.79	1.99969	0.10714	0.18577	0.00641	1115.41	36.59	35.95	1098.40	34.88	34.78	1148.70	96.13	93.22
P1462_080_Zrn_A_1_MBD_109	1098.94	61.45	61.16	206Pb/238U	30	2.85	1.82530	0.16690	0.18587	0.01128	1054.59	60.88	59.11	1098.94	61.45	61.16	963.88	194.98	183.47
P1462_080_Zrn_A_1_MBD_0	1101.18	32.35	31.84	207Pb/235Uc	87	1.80	1.95796	0.09349	0.18115	0.00639	1101.18	32.35	31.84	1073.23	34.92	34.83	1156.83	90.81	88.21
P1462_080_Zrn_A_1_MBD_69	1113.54	70.27	67.92	207Pb/235Uc	431	2.53	1.99417	0.20368	0.18492	0.01801	1113.54	70.27	67.92	1093.78	98.36	97.61	1152.32	106.06	102.53
P1462_080_Zrn_A_1_MBD_28	1146.98	29.50	29.08	207Pb/235Uc	448	3.10	2.09444	0.08926	0.18787	0.00548	1146.98	29.50	29.08	1109.85	29.75	29.68	1217.89	76.96	75.07
P1462_080_Zrn_A_1_MBD_98	1161.23	26.32	26.27	206Pb/238U	209	3.20	2.03680	0.08982	0.19738	0.00488	1127.89	30.26	29.81	1161.23	26.32	26.27	1064.24	84.54	82.29
P1462_080_Zrn_A_1_MBD_11	1164.95	84.71	81.32	207Pb/235Uc	111	3.63	2.14968	0.25737	0.20006	0.02451	1164.95	84.71	81.32	1175.63	132.32	130.97	1145.15	144.92	138.40
P1462_080_Zrn_A_1_MBD_81	1166.86	33.60	33.51	206Pb/238U	121	2.24	2.05810	0.11035	0.19843	0.00624	1134.99	36.97	36.31	1166.86	33.60	33.51	1074.53	101.31	98.09
P1462_080_Zrn_A_1_MBD_93	1182.91	40.19	40.06	206Pb/238U	36	2.32	2.19236	0.16870	0.20141	0.00748	1178.62	54.38	52.96	1182.91	40.19	40.06	1170.74	146.31	139.66
P1462_080_Zrn_A_1_MBD_88	1197.23	31.55	31.07	207Pb/235Uc	155	1.74	2.25143	0.10026	0.20542	0.00623	1197.23	31.55	31.07	1204.39	33.36	33.27	1184.35	80.88	78.80
P1462_080_Zrn_A_1_MBD_72	1224.98	77.29	76.83	206Pb/238U	175	2.25	2.39297	0.51171	0.20928	0.01446	1240.50	159.22	147.64	1224.98	77.29	76.83	1267.55	438.47	383.40
P1462_080_Zrn_A_1_MBD_35	1248.73	43.55	43.40	206Pb/238U	63	1.80	2.30787	0.17541	0.21374	0.00819	1214.71	54.57	53.14	1248.73	43.55	43.40	1154.75	145.23	138.68
P1462_080_Zrn_A_1_MBD_76	1270.21	35.74	35.64	206Pb/238U	142	2.89	2.45442	0.12445	0.21779	0.00674	1258.73	36.91	36.25	1270.21	35.74	35.64	1239.14	89.99	87.42
P1462_080_Zrn_A_1_MBD_39	1270.77	37.88	37.18	207Pb/235Uc	181	3.19	2.49564	0.12919	0.22102	0.00888	1270.77	37.88	37.18	1287.26	46.95	46.78	1242.98	76.87	74.99
P1462_080_Zrn_A_1_MBD_56	1282.04	41.47	40.64	207Pb/235Uc	94	3.84	2.53465	0.14289	0.22639	0.00815	1282.04	41.47	40.64	1315.57	42.90	42.76	1226.27	98.90	95.80
P1462_080_Zrn_A_1_MBD_41	1282.25	37.07	36.41	207Pb/235Uc	219	1.80	2.53540	0.12792	0.21976	0.00723	1282.25	37.07	36.41	1280.59	38.28	38.16	1285.03	92.55	89.83
P1462_080_Zrn_A_1_MBD_23	1290.00	33.33	32.80	207Pb/235Uc	57	2.43	2.56249	0.11600	0.22882	0.00776	1290.00	33.33	32.80	1328.31	40.75	40.62	1226.80	90.87	88.26

**Table 2.** U–Pb age data from the Cretaceous Colombian back–arc basin (*continued*).

Sample GPS-551																			
Analysis name	Preferred age (Ma)	2–sigma	2 +sigma	Age type	[U] (ppm)	U/Th	207Pb/235U Ratio	2 sigma	206Pb/238U Ratio	2 sigma	207Pb/235Uc age (Ma)	2–sigma	2 +sigma	206Pb/238U age (Ma)	2–sigma	2 +sigma	207Pb/206Pb age (Ma)	2–sigma	2 +sigma
P1462_080_Zrn_A_1_MBD_25	1431.36	44.33	44.18	206Pb/238U	63	1.65	3.26817	0.19714	0.24862	0.00857	1473.51	47.45	46.36	1431.36	44.33	44.18	1534.76	112.67	108.61
P1462_080_Zrn_A_1_MBD_2	1434.59	27.17	26.81	207Pb/235Uc	404	2.83	3.10768	0.10917	0.25192	0.00641	1434.59	27.17	26.81	1448.38	33.06	32.98	1414.21	64.62	63.27
P1462_080_Zrn_A_1_MBD_32	1444.63	48.92	47.77	207Pb/235Uc	248	3.11	3.14847	0.19748	0.25106	0.01170	1444.63	48.92	47.77	1443.92	60.43	60.15	1445.66	97.00	93.99
P1462_080_Zrn_A_1_MBD_30	1508.20	43.60	42.69	207Pb/235Uc	94	1.23	3.41650	0.18763	0.26698	0.00879	1508.20	43.60	42.69	1525.47	44.81	44.65	1484.03	97.17	94.14
P1462_080_Zrn_A_1_MBD_68	1509.49	41.26	41.13	206Pb/238U	82	3.05	3.38209	0.18975	0.26385	0.00808	1500.26	44.45	43.50	1509.49	41.26	41.13	1487.24	102.61	99.24
P1462_080_Zrn_A_1_MBD_64	1511.47	40.20	39.42	207Pb/235Uc	79	2.06	3.43075	0.17371	0.26237	0.00925	1511.47	40.20	39.42	1501.98	47.31	47.14	1524.79	82.16	79.98
P1462_080_Zrn_A_1_MBD_65	1513.71	53.88	53.66	206Pb/238U	61	2.80	3.16483	0.24627	0.26467	0.01055	1448.62	60.95	59.17	1513.71	53.88	53.66	1354.37	142.23	135.88
P1462_080_Zrn_A_1_MBD_96	1518.38	40.05	39.28	207Pb/235Uc	97	0.80	3.46103	0.17424	0.27272	0.00949	1518.38	40.05	39.28	1554.61	48.14	47.96	1468.24	86.85	84.42
P1462_080_Zrn_A_1_MBD_63	1518.91	39.17	38.43	207Pb/235Uc	401	4.45	3.46334	0.17052	0.25793	0.00982	1518.91	39.17	38.43	1479.26	50.45	50.25	1574.61	74.39	72.60
P1462_080_Zrn_A_1_MBD_100	1531.78	37.21	36.54	207Pb/235Uc	266	2.85	3.52026	0.16413	0.26880	0.00755	1531.78	37.21	36.54	1534.72	38.41	38.30	1527.71	85.86	83.48
P1462_080_Zrn_A_1_MBD_73	1538.62	62.89	62.58	206Pb/238U	24	0.80	3.61649	0.38917	0.26957	0.01236	1553.17	87.45	83.84	1538.62	62.89	62.58	1573.01	200.42	187.89
P1462_080_Zrn_A_1_MBD_103	1543.42	34.31	33.74	207Pb/235Uc	185	2.31	3.57239	0.15321	0.27447	0.00852	1543.42	34.31	33.74	1563.43	43.18	43.03	1516.12	67.42	65.94
P1462_080_Zrn_A_1_MBD_84	1545.61	39.35	38.61	207Pb/235Uc	86	2.06	3.58225	0.17589	0.27940	0.00947	1545.61	39.35	38.61	1588.33	47.80	47.63	1487.66	80.52	78.43
P1462_080_Zrn_A_1_MBD_44	1574.41	66.85	64.72	207Pb/235Uc	91	1.79	3.71408	0.30530	0.27740	0.01861	1574.41	66.85	64.72	1578.24	94.25	93.57	1569.28	103.49	100.05
P1462_080_Zrn_A_1_MBD_71	1657.46	43.66	43.51	206Pb/238U	91	2.03	4.34914	0.23914	0.29319	0.00874	1702.73	45.91	44.89	1657.46	43.66	43.51	1758.91	99.21	96.01
P1462_080_Zrn_A_1_MBD_91	1667.70	32.88	32.36	207Pb/235Uc	163	2.19	4.16774	0.16599	0.29733	0.00705	1667.70	32.88	32.36	1678.07	35.06	34.96	1654.67	68.02	66.51
P1462_080_Zrn_A_1_MBD_57	1682.66	39.24	38.50	207Pb/235Uc	160	1.87	4.24445	0.20074	0.29652	0.00929	1682.66	39.24	38.50	1674.03	46.27	46.11	1693.44	77.38	75.43
P1462_080_Zrn_A_1_MBD_3	1738.56	36.12	35.49	207Pb/235Uc	158	1.86	4.54125	0.19536	0.31019	0.00948	1738.56	36.12	35.49	1741.63	46.74	46.57	1734.87	70.47	68.85
P1462_080_Zrn_A_1_MBD_52	1798.48	47.22	46.15	207Pb/235Uc	47	1.03	4.87809	0.27023	0.31667	0.01213	1798.48	47.22	46.15	1773.46	59.54	59.27	1827.61	86.40	83.96
P1462_080_Zrn_A_1_MBD_99	1804.44	30.76	30.30	207Pb/235Uc	272	2.87	4.91272	0.17777	0.32855	0.00757	1804.44	30.76	30.30	1831.36	36.78	36.67	1773.48	61.66	60.41

  

Sample GPS-553																			
Analysis name	Preferred age (Ma)	2–sigma	2 +sigma	Age type	[U] (ppm)	U/Th	207Pb/235U Ratio	2 sigma	206Pb/238U Ratio	2 sigma	207Pb/235Uc age (Ma)	2–sigma	2 +sigma	206Pb/238U age (Ma)	2–sigma	2 +sigma	207Pb/206Pb age (Ma)	2–sigma	2 +sigma
P1462_042_Zrn_A_1_MBD_94	401.38	17.21	17.19	206Pb/238U	1017	3.18	0.50459	0.03024	0.06424	0.00284	414.81	20.51	20.31	401.38	17.21	17.19	490.21	124.82	120.13
P1462_042_Zrn_A_1_MBD_0	411.34	21.76	21.72	206Pb/238U	247	1.13	0.53565	0.05301	0.06589	0.00359	435.55	35.35	34.75	411.34	21.76	21.72	565.66	233.13	217.22
P1462_042_Zrn_A_1_MBD_55	438.38	12.92	12.90	206Pb/238U	783	1.42	0.55294	0.03012	0.07037	0.00214	446.92	19.79	19.60	438.38	12.92	12.90	491.12	118.42	114.19
P1462_042_Zrn_A_1_MBD_13	468.78	19.18	19.15	206Pb/238U	524	0.75	0.62639	0.04987	0.07543	0.00320	493.84	31.37	30.90	468.78	19.18	19.15	611.82	182.04	172.16
P1462_042_Zrn_A_1_MBD_2	486.26	147.93	141.39	207Pb/206Pb	206	0.97	0.73663	3.08957	0.09395	0.39403	560.44	1120.87	1292.24	578.87	1157.75	2135.01	486.26	147.93	141.39
P1462_042_Zrn_A_1_MBD_61	486.54	30.25	30.18	206Pb/238U	499	1.16	0.65656	0.06985	0.07840	0.00505	512.51	43.27	42.37	486.54	30.25	30.18	630.09	204.56	192.16
P1462_042_Zrn_A_1_MBD_52	496.29	15.85	15.83	206Pb/238U	265	1.02	0.63443	0.05027	0.08003	0.00265	498.85	31.47	30.99	496.29	15.85	15.83	510.60	180.14	170.52
P1462_042_Zrn_A_1_MBD_109	496.36	22.46	22.21	207Pb/235Uc	592	4.93	0.63042	0.03586	0.08089	0.00391	496.36	22.46	22.21	501.45	23.33	23.28	472.92	113.41	109.53
P1462_042_Zrn_A_1_MBD_50	509.96	77.34	76.88	206Pb/238U	48	1.81	0.66336	0.14498	0.08232	0.01295	516.67	90.49	86.63	509.96	77.34	76.88	546.43	395.16	351.54
P1462_042_Zrn_A_1_MBD_51	535.13	38.76	38.64	206Pb/238U	49	2.02	0.68609	0.12780	0.08656	0.00652	530.45	78.46	75.54	535.13	38.76	38.64	510.34	436.43	383.94
P1462_042_Zrn_A_1_MBD_10	538.81	24.80	24.76	206Pb/238U	256	1.59	0.68986	0.05430	0.08718	0.00418	532.71	32.89	32.37	538.81	24.80	24.76	506.68	165.11	157.00
P1462_042_Zrn_A_1_MBD_18	540.51	32.12	32.04	206Pb/238U	184	1.30	0.71377	0.06246	0.08746	0.00541	546.98	37.35	36.67	540.51	32.12	32.04	574.05	197.23	185.71
P1462_042_Zrn_A_1_MBD_85	555.42	23.94	23.90	206Pb/238U	577	2.61	0.73348	0.04196	0.08998	0.00404	558.60	24.73	24.43	555.42	23.94	23.90	571.54	121.93	117.43
P1462_042_Zrn_A_1_MBD_27	570.63	41.89	41.04	207Pb/235Uc	129	2.06	0.75415	0.07162	0.08989	0.00744	570.63	41.89	41.04	554.88	44.05	43.90	633.88	195.78	184.39
P1462_042_Zrn_A_1_MBD_62	578.71	39.69	39.57	206Pb/238U	89	2.75	0.71496	0.07842	0.09392	0.00672	547.69	46.97	45.91	578.71	39.69	39.57	420.65	250.62	232.48
P1462_042_Zrn_A_1_MBD_5	580.05	21.67	21.63	206Pb/238U	193	8.14	0.79787	0.06895	0.09415	0.00367	595.63	39.32	38.57	580.05	21.67	21.63	655.42	193.82	182.63
P1462_042_Zrn_A_1_MBD_95	601.56	27.65	27.59	206Pb/238U	177	1.16	0.84928	0.06309	0.09781	0.00470	624.25	34.94	34.35	601.56	27.65	27.59	707.38	148.30	141.64
P1462_042_Zrn_A_1_MBD_19	603.52	21.54	21.50	206Pb/238U	566	4.72	0.83798	0.05347	0.09814	0.00367	618.03	29.76	29.33	603.52	21.54	21.50	671.54	133.97	128.52

**Table 2.** U–Pb age data from the Cretaceous Colombian back–arc basin (*continued*).

Analysis name	Preferred age (Ma)	Sample GPS–553																	
		2 –sigma	2 +sigma	Age type	[U] (ppm)	U/Th	207Pb/235U Ratio	2 sigma	206Pb/238U Ratio	2 sigma	207Pb/235Uc age (Ma)	2 –sigma	2 +sigma	206Pb/238U age (Ma)	2 –sigma	2 +sigma	207Pb/206Pb age (Ma)	2 –sigma	2 +sigma
P1462_042_Zrn_A_1_MBD_82	604.30	24.61	24.57	206Pb/238U	668	1.01	0.82899	0.06015	0.09828	0.00419	613.05	33.67	33.12	604.30	24.61	24.57	645.52	147.82	141.23
P1462_042_Zrn_A_1_MBD_87	639.06	26.60	26.25	207Pb/235Uc	402	3.52	0.87644	0.04883	0.10018	0.00471	639.06	26.60	26.25	615.46	27.64	27.58	723.41	99.47	96.43
P1462_042_Zrn_A_1_MBD_66	672.16	30.06	29.99	206Pb/238U	146	2.52	0.96395	0.05937	0.10990	0.00517	685.34	30.93	30.47	672.16	30.06	29.99	728.86	120.39	115.96
P1462_042_Zrn_A_1_MBD_78	678.78	39.99	39.87	206Pb/238U	148	10.77	1.01190	0.14533	0.11104	0.00688	709.83	74.70	72.05	678.78	39.99	39.87	809.35	309.24	281.47
P1462_042_Zrn_A_1_MBD_39	683.37	52.34	51.02	207Pb/235Uc	168	5.14	0.96015	0.09975	0.11140	0.01080	683.37	52.34	51.02	680.89	62.78	62.48	691.55	187.17	176.70
P1462_042_Zrn_A_1_MBD_99	711.82	71.31	70.92	206Pb/238U	32	1.85	0.93796	0.16896	0.11675	0.01232	671.81	90.51	86.65	711.82	71.31	70.92	539.88	394.34	350.92
P1462_042_Zrn_A_1_MBD_54	717.08	28.17	28.11	206Pb/238U	500	0.85	1.10998	0.07303	0.11766	0.00488	758.16	35.45	34.85	717.08	28.17	28.11	881.30	149.27	142.46
P1462_042_Zrn_A_1_MBD_7	730.08	52.36	51.04	207Pb/235Uc	183	2.40	1.05241	0.10448	0.11417	0.00913	730.08	52.36	51.04	696.91	52.91	52.69	833.29	177.58	168.05
P1462_042_Zrn_A_1_MBD_93	842.26	57.78	57.53	206Pb/238U	74	1.30	1.36765	0.19322	0.13958	0.01019	875.15	84.60	81.22	842.26	57.78	57.53	959.32	308.66	280.77
P1462_042_Zrn_A_1_MBD_32	957.71	36.23	36.13	206Pb/238U	299	3.26	1.57808	0.10232	0.16017	0.00651	961.61	40.70	39.90	957.71	36.23	36.13	970.54	127.44	122.42
P1462_042_Zrn_A_1_MBD_69	985.80	78.63	78.15	206Pb/238U	32	1.34	1.49971	0.23940	0.16523	0.01417	930.27	99.65	94.99	985.80	78.63	78.15	800.88	344.65	310.53
P1462_042_Zrn_A_1_MBD_75	1010.84	37.20	37.09	206Pb/238U	91	2.72	1.67856	0.15012	0.16977	0.00674	1000.44	57.72	56.12	1010.84	37.20	37.09	977.72	178.08	168.42
P1462_042_Zrn_A_1_MBD_97	1017.34	34.06	33.97	206Pb/238U	143	3.31	1.79042	0.10202	0.17095	0.00618	1041.98	37.47	36.79	1017.34	34.06	33.97	1094.02	113.79	109.74
P1462_042_Zrn_A_1_MBD_70	1024.76	36.81	36.16	207Pb/235Uc	478	3.76	1.74351	0.09857	0.17171	0.00795	1024.76	36.81	36.16	1021.55	43.79	43.64	1031.62	94.51	91.71
P1462_042_Zrn_A_1_MBD_98	1038.42	38.85	38.12	207Pb/235Uc	261	0.99	1.78066	0.10537	0.17480	0.00766	1038.42	38.85	38.12	1038.49	42.11	41.97	1038.27	107.59	103.97
P1462_042_Zrn_A_1_MBD_72	1055.75	72.38	71.98	206Pb/238U	84	2.91	1.82737	0.22547	0.17795	0.01319	1055.34	82.63	79.40	1055.75	72.38	71.98	1054.48	223.07	208.06
P1462_042_Zrn_A_1_MBD_16	1067.00	43.85	43.70	206Pb/238U	140	0.80	1.84530	0.14370	0.18000	0.00801	1061.76	51.94	50.65	1067.00	43.85	43.70	1051.00	151.16	144.12
P1462_042_Zrn_A_1_MBD_46	1099.94	55.42	55.18	206Pb/238U	116	4.60	1.86661	0.19245	0.18605	0.01017	1069.33	69.34	67.05	1099.94	55.42	55.18	1007.42	203.59	191.04
P1462_042_Zrn_A_1_MBD_26	1116.71	82.27	79.06	207Pb/235Uc	87	2.90	2.00354	0.23848	0.19497	0.01601	1116.71	82.27	79.06	1148.24	86.65	86.07	1055.85	223.26	208.22
P1462_042_Zrn_A_1_MBD_100	1125.97	50.25	49.04	207Pb/235Uc	106	2.32	2.03105	0.14816	0.18632	0.01295	1125.97	50.25	49.04	1101.38	70.58	70.19	1173.70	180.62	170.59
P1462_042_Zrn_A_1_MBD_21	1145.77	69.91	67.58	207Pb/235Uc	87	2.60	2.09075	0.20918	0.19731	0.01349	1145.77	69.91	67.58	1160.84	72.85	72.44	1117.36	185.80	175.23
P1462_042_Zrn_A_1_MBD_4	1149.57	60.22	58.48	207Pb/235Uc	364	2.00	2.10234	0.18129	0.19952	0.01479	1149.57	60.22	58.48	1172.76	79.72	79.23	1106.10	132.95	127.46
P1462_042_Zrn_A_1_MBD_38	1175.38	161.81	153.71	207Pb/206Pb	109	1.32	2.48230	0.58900	0.22752	0.05311	1266.89	179.44	164.87	1321.47	281.99	275.95	1175.38	161.81	153.71
P1462_042_Zrn_A_1_MBD_81	1184.55	39.27	38.52	207Pb/235Uc	160	3.61	2.21107	0.12298	0.19519	0.00894	1184.55	39.27	38.52	1149.45	48.31	48.13	1249.21	98.22	95.16
P1462_042_Zrn_A_1_MBD_59	1194.19	43.57	42.65	207Pb/235Uc	126	2.22	2.24171	0.13761	0.19703	0.00891	1194.19	43.57	42.65	1159.34	48.05	47.87	1257.84	107.73	104.07
P1462_042_Zrn_A_1_MBD_92	1212.42	43.91	43.76	206Pb/238U	184	3.72	2.26868	0.16268	0.20693	0.00821	1202.61	51.17	49.92	1212.42	43.91	43.76	1185.02	134.16	128.54
P1462_042_Zrn_A_1_MBD_47	1246.89	105.98	100.72	207Pb/235Uc	78	3.61	2.41438	0.34724	0.20788	0.02145	1246.89	105.98	100.72	1217.52	115.00	113.98	1297.97	305.31	277.52
P1462_042_Zrn_A_1_MBD_49	1257.93	66.40	64.29	207Pb/235Uc	135	7.61	2.45173	0.22206	0.20292	0.01730	1257.93	66.40	64.29	1190.99	93.07	92.40	1374.36	170.52	161.46
P1462_042_Zrn_A_1_MBD_96	1276.25	44.86	43.89	207Pb/235Uc	428	3.10	2.51455	0.15356	0.21700	0.01215	1276.25	44.86	43.89	1266.02	64.51	64.19	1293.51	98.70	95.61
P1462_042_Zrn_A_1_MBD_9	1285.93	46.51	45.47	207Pb/235Uc	145	1.28	2.54822	0.16067	0.22014	0.00877	1285.93	46.51	45.47	1282.62	46.43	46.26	1291.45	116.46	112.18
P1462_042_Zrn_A_1_MBD_91	1300.31	36.69	36.59	206Pb/238U	107	3.89	2.65194	0.15683	0.22349	0.00695	1315.18	44.08	43.14	1300.31	36.69	36.59	1339.51	109.67	105.86
P1462_042_Zrn_A_1_MBD_14	1301.56	54.52	54.29	206Pb/238U	99	2.85	2.60535	0.21189	0.22373	0.01033	1302.15	60.57	58.81	1301.56	54.52	54.29	1303.11	164.96	156.50
P1462_042_Zrn_A_1_MBD_60	1354.62	60.90	59.12	207Pb/235Uc	254	0.98	2.79657	0.22432	0.23239	0.01346	1354.62	60.90	59.12	1347.00	70.62	70.24	1366.67	127.55	122.41
P1462_042_Zrn_A_1_MBD_8	1354.85	136.15	127.59	207Pb/235Uc	272	0.56	2.79743	0.49248	0.22855	0.04047	1354.85	136.15	127.59	1326.88	214.11	210.61	1399.28	161.94	153.73
P1462_042_Zrn_A_1_MBD_57	1361.75	44.69	44.54	206Pb/238U	201	2.05	2.77901	0.16529	0.23521	0.00855	1349.91	44.91	43.93	1361.75	44.69	44.54	1331.22	113.29	109.22
P1462_042_Zrn_A_1_MBD_105	1364.19	117.17	110.77	207Pb/235Uc	48	4.14	2.83253	0.42973	0.21478	0.02225	1364.19	117.17	110.77	1254.23	118.63	117.55	1540.89	299.74	272.60
P1462_042_Zrn_A_1_MBD_36	1400.87	60.44	60.16	206Pb/238U	51	1.86	2.89975	0.24941	0.24273	0.01162	1381.85	66.00	63.92	1400.87	60.44	60.16	1352.59	159.69	151.72
P1462_042_Zrn_A_1_MBD_31	1420.00	59.24	57.56	207Pb/235Uc	89	2.25	3.04905	0.23283	0.24230	0.01262	1420.00	59.24	57.56	1398.64	65.65	65.31	1452.17	125.76	120.74
P1462_042_Zrn_A_1_MBD_20	1427.52	64.82	62.81	207Pb/235Uc	74	1.20	3.07918	0.25628	0.24985	0.01490	1427.52	64.82	62.81	1437.69	77.07	76.62	1412.40	147.50	140.65
P1462_042_Zrn_A_1_MBD_108	1437.60	47.94	46.83	207Pb/235Uc	220	1.20	3.11987	0.19222	0.24039	0.01117	1437.60	47.94	46.83	1388.71	58.20	57.94	1510.71	96.76	93.75
P1462_042_Zrn_A_1_MBD_40	1461.88	46.77	45.72	207Pb/235Uc	212	9.72	3.21958	0.19213	0.26400	0.01328	1461.88	46.77	45.72	1510.28	67.92	67.56	1392.26	108.66	104.91
P1462_042_Zrn_A_1_MBD_15	1498.55	41.48	41.35	206Pb/238U	278	2.57	3.52388	0.19863	0.26170	0.00811	1532.59	45.08	44.10	1498.55	41.48	41.35	1579.89	99.00	95.84



**Table 2.** U–Pb age data from the Cretaceous Colombian back–arc basin (*continued*).

Sample GPS–553																			
Analysis name	Preferred age (Ma)	2–sigma	2 +sigma	Age type	[U] (ppm)	U/Th	207Pb/235U Ratio	2 sigma	206Pb/238U Ratio	2 sigma	207Pb/235Uc age (Ma)	2–sigma	2 +sigma	206Pb/238U age (Ma)	2–sigma	2 +sigma	207Pb/206Pb age (Ma)	2–sigma	2 +sigma
P1462_042_Zrn_A_1_MBD_23	1508.67	95.71	91.40	207Pb/235Uc	28	2.81	3.41856	0.40684	0.25972	0.02154	1508.67	95.71	91.40	1488.40	110.69	109.74	1537.24	237.00	219.71
P1462_042_Zrn_A_1_MBD_6	1518.83	72.21	69.73	207Pb/235Uc	163	1.99	3.46297	0.31182	0.25735	0.01551	1518.83	72.21	69.73	1476.25	79.75	79.26	1578.68	155.61	147.95
P1462_042_Zrn_A_1_MBD_73	1521.22	42.28	41.41	207Pb/235Uc	146	2.09	3.47353	0.18433	0.26330	0.00987	1521.22	42.28	41.41	1506.72	50.44	50.24	1541.47	87.75	85.27
P1462_042_Zrn_A_1_MBD_35	1522.20	51.22	49.96	207Pb/235Uc	121	1.95	3.47785	0.22308	0.26312	0.01165	1522.20	51.22	49.96	1505.80	59.61	59.33	1545.09	119.08	114.55
P1462_042_Zrn_A_1_MBD_45	1531.95	76.39	73.62	207Pb/235Uc	92	1.81	3.52105	0.33381	0.26181	0.01879	1531.95	76.39	73.62	1499.08	96.35	95.64	1577.64	132.86	127.23
P1462_042_Zrn_A_1_MBD_84	1545.99	76.33	73.56	207Pb/235Uc	386	2.22	3.58399	0.33818	0.25441	0.02153	1545.99	76.33	73.56	1461.18	111.12	110.17	1663.94	107.06	103.37
P1462_042_Zrn_A_1_MBD_74	1578.43	63.09	61.19	207Pb/235Uc	157	1.80	3.73282	0.28954	0.25976	0.01650	1578.43	63.09	61.19	1488.61	84.70	84.14	1700.65	109.55	105.68
P1462_042_Zrn_A_1_MBD_11	1605.50	47.88	46.78	207Pb/235Uc	315	3.96	3.86065	0.22652	0.27428	0.01044	1605.50	47.88	46.78	1562.50	52.90	52.68	1662.37	99.43	96.24
P1462_042_Zrn_A_1_MBD_68	1650.39	135.84	127.32	207Pb/235Uc	63	3.68	4.08037	0.65742	0.28312	0.03864	1650.39	135.84	127.32	1607.08	195.59	192.67	1705.98	215.01	200.57
P1462_042_Zrn_A_1_MBD_101	1653.75	71.92	69.46	207Pb/235Uc	78	1.08	4.09723	0.35474	0.28331	0.01922	1653.75	71.92	69.46	1608.00	96.91	96.18	1712.37	135.21	129.35
P1462_042_Zrn_A_1_MBD_86	1667.47	47.87	46.77	207Pb/235Uc	171	1.99	4.16654	0.24072	0.29161	0.01514	1667.47	47.87	46.77	1649.56	75.79	75.35	1690.08	100.26	97.00
P1462_042_Zrn_A_1_MBD_33	1678.64	37.16	36.50	207Pb/235Uc	430	3.86	4.22370	0.18945	0.28998	0.01032	1678.64	37.16	36.50	1641.44	51.65	51.45	1725.44	74.46	72.64
P1462_042_Zrn_A_1_MBD_53	1702.95	35.45	34.84	207Pb/235Uc	198	1.46	4.35026	0.18515	0.29890	0.01072	1702.95	35.45	34.84	1685.84	53.32	53.10	1724.06	77.68	75.71
P1462_042_Zrn_A_1_MBD_29	1707.09	47.43	46.35	207Pb/235Uc	170	1.57	4.37212	0.24805	0.31151	0.01722	1707.09	47.43	46.35	1748.15	84.94	84.38	1657.06	106.55	102.89
P1462_042_Zrn_A_1_MBD_22	1755.15	56.05	54.55	207Pb/235Uc	79	2.24	4.63253	0.30669	0.30736	0.01749	1755.15	56.05	54.55	1727.70	86.55	85.98	1787.99	109.42	105.54
P1462_042_Zrn_A_1_MBD_67	1756.55	65.59	63.54	207Pb/235Uc	264	3.82	4.64033	0.35852	0.30968	0.02234	1756.55	65.59	63.54	1739.11	110.43	109.49	1777.37	102.04	98.65
P1462_042_Zrn_A_1_MBD_48	1757.51	89.76	85.96	207Pb/235Uc	93	1.45	4.64563	0.48821	0.30760	0.02857	1757.51	89.76	85.96	1728.88	141.63	140.09	1791.72	168.67	159.62
P1462_042_Zrn_A_1_MBD_90	1758.69	48.86	47.71	207Pb/235Uc	291	1.99	4.65222	0.26875	0.31333	0.01588	1758.69	48.86	47.71	1757.06	78.19	77.72	1760.63	92.74	89.94
P1462_042_Zrn_A_1_MBD_76	1782.36	42.09	41.23	207Pb/235Uc	343	1.84	4.78551	0.23734	0.32911	0.01344	1782.36	42.09	41.23	1834.08	65.34	65.01	1722.33	82.35	80.14
P1462_042_Zrn_A_1_MBD_63	1786.54	132.57	124.44	207Pb/235Uc	17	1.62	4.80936	0.73424	0.30094	0.03599	1786.54	132.57	124.44	1695.98	179.58	177.11	1894.01	276.43	252.81
P1462_042_Zrn_A_1_MBD_3	1789.20	57.25	55.68	207Pb/235Uc	227	1.22	4.82462	0.32381	0.31869	0.01436	1789.20	57.25	55.68	1783.33	70.41	70.02	1796.05	114.78	110.51
P1462_042_Zrn_A_1_MBD_71	1795.66	46.32	45.29	207Pb/235Uc	157	1.41	4.86181	0.26440	0.32055	0.01298	1795.66	46.32	45.29	1792.43	63.52	63.21	1799.42	90.29	87.62
P1462_042_Zrn_A_1_MBD_30	1821.99	67.82	65.63	207Pb/235Uc	72	1.44	5.01577	0.39520	0.32665	0.01926	1821.99	67.82	65.63	1822.13	93.94	93.26	1821.82	112.18	108.10
P1462_042_Zrn_A_1_MBD_42	1838.86	173.16	159.55	207Pb/235Uc	52	2.20	5.11655	0.99987	0.28147	0.04221	1838.86	173.16	159.55	1598.76	214.10	210.60	2122.60	397.68	350.11
P1462_042_Zrn_A_1_MBD_77	1849.08	49.83	48.64	207Pb/235Uc	262	2.70	5.17844	0.29954	0.33608	0.01723	1849.08	49.83	48.64	1867.78	83.39	82.86	1828.11	66.06	64.63
P1462_042_Zrn_A_1_MBD_102	1867.19	118.82	112.25	207Pb/235Uc	22	2.36	5.28962	0.71487	0.34997	0.04124	1867.19	118.82	112.25	1934.47	198.43	195.42	1793.10	244.37	225.82
P1462_042_Zrn_A_1_MBD_80	1884.26	49.94	48.74	207Pb/235Uc	227	1.60	5.39624	0.31073	0.34962	0.01210	1884.26	49.94	48.74	1932.79	57.93	57.67	1831.18	94.30	91.40
P1462_042_Zrn_A_1_MBD_12	1907.59	89.24	85.48	207Pb/235Uc	404	1.57	5.54493	0.56276	0.33637	0.02726	1907.59	89.24	85.48	1869.16	132.17	130.83	1949.64	141.39	134.93
P1462_042_Zrn_A_1_MBD_106	1913.52	48.87	47.72	207Pb/235Uc	174	1.96	5.58327	0.31305	0.34236	0.01677	1913.52	48.87	47.72	1898.02	80.79	80.29	1930.37	74.55	72.72
P1462_042_Zrn_A_1_MBD_58	1937.29	35.19	34.59	207Pb/235Uc	464	1.47	5.73919	0.23157	0.34662	0.01112	1937.29	35.19	34.59	1918.43	53.37	53.15	1957.52	65.98	64.54
P1462_042_Zrn_A_1_MBD_89	2076.94	39.59	38.83	207Pb/235Uc	225	1.53	6.73279	0.29858	0.37560	0.01209	2076.94	39.59	38.83	2055.70	56.77	56.52	2098.06	67.90	66.36
P1462_042_Zrn_A_1_MBD_17	2623.73	63.35	61.43	207Pb/235Uc	179	1.06	12.24982	0.81384	0.49372	0.02007	2623.73	63.35	61.43	2586.77	86.89	86.31	2652.38	97.25	94.06

  

Sample GPS–555																			
Analysis name	Preferred age (Ma)	2–sigma	2 +sigma	Age type	[U] (ppm)	U/Th	207Pb/235U Ratio	2 sigma	206Pb/238U Ratio	2 sigma	207Pb/235Uc age (Ma)	2–sigma	2 +sigma	206Pb/238U age (Ma)	2–sigma	2 +sigma	207Pb/206Pb age (Ma)	2–sigma	2 +sigma
P1462_043_Zrn_A_1_MBD_99	472.80	24.64	24.59	206Pb/238U	759	1.39	0.60045	0.04819	0.07610	0.00411	477.52	30.81	30.35	472.80	24.64	24.59	500.27	154.95	147.78
P1462_043_Zrn_A_1_MBD_93	483.08	24.50	24.45	206Pb/238U	196	1.14	0.60228	0.07254	0.07782	0.00409	478.68	46.50	45.46	483.08	24.50	24.45	457.64	286.59	263.07
P1462_043_Zrn_A_1_MBD_101	512.24	21.21	21.18	206Pb/238U	461	1.43	0.69579	0.04100	0.08270	0.00356	536.27	24.70	24.40	512.24	21.21	21.18	639.83	123.35	118.73
P1462_043_Zrn_A_1_MBD_85	536.77	25.19	25.14	206Pb/238U	258	1.83	0.69822	0.05244	0.08683	0.00424	537.72	31.60	31.12	536.77	25.19	25.14	541.78	178.90	169.39
P1462_043_Zrn_A_1_MBD_51	559.99	28.49	28.43	206Pb/238U	95	1.61	0.68855	0.11048	0.09075	0.00482	531.93	67.54	65.37	559.99	28.49	28.43	413.30	376.43	336.96
P1462_043_Zrn_A_1_MBD_15	622.33	29.26	29.19	206Pb/238U	155	2.55	0.83168	0.08012	0.10135	0.00499	614.54	44.91	43.94	622.33	29.26	29.19	585.95	210.67	197.57

**Table 2.** U–Pb age data from the Cretaceous Colombian back–arc basin (*continued*).

Analysis name	Preferred age (Ma)	Sample GPS–555																	
		2 –sigma	2 +sigma	Age type	[U] (ppm)	U/Th	207Pb/235U Ratio	2 sigma	206Pb/238U Ratio	2 sigma	207Pb/235Uc age (Ma)	2 –sigma	2 +sigma	206Pb/238U age (Ma)	2 –sigma	2 +sigma	207Pb/206Pb age (Ma)	2 –sigma	2 +sigma
P1462_043_Zrn_A_1_MBD_38	674.55	29.61	29.54	206Pb/238U	434	2.48	1.00220	0.13587	0.11031	0.00509	704.92	70.10	67.76	674.55	29.61	29.54	802.94	298.00	272.14
P1462_043_Zrn_A_1_MBD_31	690.87	36.94	36.83	206Pb/238U	156	2.18	0.95168	0.10554	0.11313	0.00637	678.98	55.67	54.18	690.87	36.94	36.83	639.72	234.85	218.64
P1462_043_Zrn_A_1_MBD_58	744.67	56.49	54.96	207Pb/235Uc	138	2.60	1.08212	0.11423	0.11813	0.01021	744.67	56.49	54.96	719.79	59.01	58.75	820.21	188.27	177.60
P1462_043_Zrn_A_1_MBD_84	769.19	29.19	29.12	206Pb/238U	557	1.13	1.12556	0.08273	0.12673	0.00510	765.64	39.91	39.14	769.19	29.19	29.12	755.28	147.27	140.68
P1462_043_Zrn_A_1_MBD_87	862.61	48.74	47.60	207Pb/235Uc	147	3.69	1.33857	0.11091	0.14793	0.01111	862.61	48.74	47.60	889.33	62.57	62.26	794.55	191.61	180.59
P1462_043_Zrn_A_1_MBD_97	911.74	35.26	35.16	206Pb/238U	229	2.60	1.43769	0.09418	0.15192	0.00629	904.76	39.61	38.86	911.74	35.26	35.16	887.75	129.14	124.01
P1462_043_Zrn_A_1_MBD_6	962.98	61.49	61.20	206Pb/238U	81	2.11	1.67004	0.19528	0.16112	0.01105	997.20	75.65	72.94	962.98	61.49	61.20	1073.24	253.51	234.27
P1462_043_Zrn_A_1_MBD_10	963.04	36.85	36.74	206Pb/238U	144	1.81	1.69203	0.11756	0.16113	0.00663	1005.53	44.83	43.87	963.04	36.85	36.74	1099.32	132.30	126.85
P1462_043_Zrn_A_1_MBD_13	966.26	61.99	61.69	206Pb/238U	66	1.63	1.61382	0.17986	0.16171	0.01114	975.59	71.10	68.70	966.26	61.99	61.69	996.67	200.58	188.40
P1462_043_Zrn_A_1_MBD_20	966.61	47.80	46.70	207Pb/235Uc	139	9.84	1.59079	0.12054	0.16484	0.00940	966.61	47.80	46.70	983.63	52.13	51.92	928.10	123.12	118.44
P1462_043_Zrn_A_1_MBD_1	967.33	34.17	34.08	206Pb/238U	150	3.63	1.69008	0.13150	0.16190	0.00615	1004.79	50.25	49.04	967.33	34.17	34.08	1087.42	154.58	147.21
P1462_043_Zrn_A_1_MBD_104	975.90	40.90	40.10	207Pb/235Uc	684	3.19	1.61460	0.10428	0.15819	0.00764	975.90	40.90	40.10	946.74	42.62	42.48	1042.12	123.94	119.16
P1462_043_Zrn_A_1_MBD_35	982.19	48.16	47.05	207Pb/235Uc	137	1.89	1.63085	0.12332	0.16651	0.01092	982.19	48.16	47.05	992.86	60.51	60.23	958.40	128.56	123.46
P1462_043_Zrn_A_1_MBD_92	1010.13	41.04	40.23	207Pb/235Uc	237	1.98	1.70426	0.10821	0.15692	0.00804	1010.13	41.04	40.23	939.62	44.90	44.75	1166.38	124.69	119.83
P1462_043_Zrn_A_1_MBD_70	1012.30	42.80	41.91	207Pb/235Uc	366	3.71	1.71004	0.11303	0.16927	0.00865	1012.30	42.80	41.91	1008.10	47.79	47.62	1021.40	125.85	120.94
P1462_043_Zrn_A_1_MBD_19	1018.39	35.88	35.25	207Pb/235Uc	409	5.12	1.72634	0.09548	0.16756	0.00789	1018.39	35.88	35.25	998.65	43.63	43.48	1061.07	96.18	93.28
P1462_043_Zrn_A_1_MBD_28	1034.31	28.34	27.95	207Pb/235Uc	1074	2.13	1.76943	0.07677	0.17275	0.00575	1034.31	28.34	27.95	1027.23	31.65	31.57	1049.32	85.58	83.28
P1462_043_Zrn_A_1_MBD_49	1050.86	57.92	57.66	206Pb/238U	69	2.94	1.78771	0.26678	0.17705	0.01055	1040.99	99.57	94.92	1050.86	57.92	57.66	1020.33	305.63	278.17
P1462_043_Zrn_A_1_MBD_50	1075.75	48.92	48.74	206Pb/238U	92	2.68	1.74109	0.16592	0.18161	0.00895	1023.87	62.41	60.55	1075.75	48.92	48.74	914.58	189.98	179.07
P1462_043_Zrn_A_1_MBD_43	1079.32	45.59	45.43	206Pb/238U	110	2.39	1.80365	0.12676	0.18226	0.00835	1046.78	46.44	45.40	1079.32	45.59	45.43	979.48	133.64	128.12
P1462_043_Zrn_A_1_MBD_8	1132.47	33.64	33.09	207Pb/235Uc	435	2.06	2.05052	0.10024	0.18144	0.00695	1132.47	33.64	33.09	1074.82	37.95	37.84	1244.72	87.36	84.94
P1462_043_Zrn_A_1_MBD_56	1138.37	35.37	35.27	206Pb/238U	483	0.85	2.20211	0.12188	0.19314	0.00654	1181.71	39.02	38.29	1138.37	35.37	35.27	1261.96	102.33	99.02
P1462_043_Zrn_A_1_MBD_66	1138.37	36.76	36.66	206Pb/238U	526	3.12	2.12395	0.14120	0.19314	0.00679	1156.62	46.42	45.38	1138.37	36.76	36.66	1190.98	126.57	121.55
P1462_043_Zrn_A_1_MBD_26	1146.57	56.17	54.66	207Pb/235Uc	123	2.12	2.09318	0.16878	0.20097	0.01086	1146.57	56.17	54.66	1180.52	58.41	58.14	1082.92	143.32	136.96
P1462_043_Zrn_A_1_MBD_75	1158.33	36.87	36.76	206Pb/238U	633	1.90	2.13425	0.11412	0.19684	0.00684	1159.96	37.31	36.64	1158.33	36.87	36.76	1163.02	107.48	103.85
P1462_043_Zrn_A_1_MBD_90	1172.34	51.15	49.89	207Pb/235Uc	47	1.65	2.17268	0.15782	0.20215	0.01582	1172.34	51.15	49.89	1186.87	85.11	84.55	1145.60	191.29	180.09
P1462_043_Zrn_A_1_MBD_5	1191.63	43.46	42.55	207Pb/235Uc	211	2.80	2.23353	0.13694	0.19758	0.00828	1191.63	43.46	42.55	1162.29	44.63	44.47	1245.24	109.11	105.36
P1462_043_Zrn_A_1_MBD_18	1194.00	49.05	48.86	206Pb/238U	62	2.94	2.16865	0.17899	0.20348	0.00914	1171.05	58.18	56.56	1194.00	49.05	48.86	1128.86	168.47	159.73
P1462_043_Zrn_A_1_MBD_48	1239.74	54.39	54.16	206Pb/238U	221	1.88	2.65640	0.21341	0.21205	0.01020	1316.42	60.14	58.41	1239.74	54.39	54.16	1443.57	151.67	144.44
P1462_043_Zrn_A_1_MBD_78	1257.31	38.52	37.80	207Pb/235Uc	406	7.70	2.44962	0.12964	0.20877	0.00761	1257.31	38.52	37.80	1222.26	40.65	40.53	1317.82	95.31	92.42
P1462_043_Zrn_A_1_MBD_55	1265.81	38.22	37.51	207Pb/235Uc	173	3.97	2.47861	0.12970	0.22005	0.01017	1265.81	38.22	37.51	1282.15	53.85	53.62	1238.15	98.44	95.37
P1462_043_Zrn_A_1_MBD_41	1310.92	58.15	57.88	206Pb/238U	66	2.57	2.48188	0.19404	0.22551	0.01103	1266.76	57.39	55.81	1310.92	58.15	57.88	1192.56	146.77	140.07
P1462_043_Zrn_A_1_MBD_74	1312.03	44.61	43.65	207Pb/235Uc	300	2.42	2.64060	0.15820	0.22320	0.00927	1312.03	44.61	43.65	1298.74	48.95	48.76	1333.80	105.51	101.98
P1462_043_Zrn_A_1_MBD_83	1323.04	47.87	46.77	207Pb/235Uc	175	4.81	2.68031	0.17150	0.21918	0.01090	1323.04	47.87	46.77	1277.52	57.77	57.52	1397.55	105.61	102.06
P1462_043_Zrn_A_1_MBD_2	1363.75	71.02	68.62	207Pb/235Uc	140	1.15	2.83087	0.26332	0.22476	0.01620	1363.75	71.02	68.62	1306.99	85.55	84.99	1453.85	132.34	126.79
P1462_043_Zrn_A_1_MBD_47	1369.72	45.38	44.39	207Pb/235Uc	105	2.28	2.85344	0.17030	0.23436	0.00880	1369.72	45.38	44.39	1357.30	46.05	45.89	1389.13	108.73	104.97
P1462_043_Zrn_A_1_MBD_91	1372.37	66.91	64.78	207Pb/235Uc	51	1.49	2.86353	0.25044	0.23920	0.01307	1372.37	66.91	64.78	1382.56	68.17	67.81	1356.56	164.88	156.40
P1462_043_Zrn_A_1_MBD_68	1401.81	37.47	36.79	207Pb/235Uc	971	2.39	2.97717	0.14541	0.23250	0.00813	1401.81	37.47	36.79	1347.60	42.61	42.47	1485.24	85.89	83.51
P1462_043_Zrn_A_1_MBD_45	1403.86	49.56	48.37	207Pb/235Uc	127	1.98	2.98521	0.19214	0.24802	0.01097	1403.86	49.56	48.37	1428.24	56.78	56.53	1367.03	125.29	120.33
P1462_043_Zrn_A_1_MBD_40	1424.01	52.89	51.55	207Pb/235Uc	127	2.92	3.06507	0.20902	0.23881	0.01064	1424.01	52.89	51.55	1380.53	55.46	55.22	1489.62	120.41	115.79
P1462_043_Zrn_A_1_MBD_59	1426.82	53.86	52.47	207Pb/235Uc	140	2.10	3.07635	0.21339	0.24697	0.01262	1426.82	53.86	52.47	1422.83	65.41	65.08	1432.77	119.30	114.78
P1462_043_Zrn_A_1_MBD_107	1444.12	55.47	55.23	206Pb/238U	112	1.22	3.17253	0.23173	0.25109	0.01074	1450.50	57.19	55.62	1444.12	55.47	55.23	1459.86	131.42	125.95

**Table 2.** U–Pb age data from the Cretaceous Colombian back–arc basin (*continued*).

Sample GPS-555																			
Analysis name	Preferred age (Ma)	2–sigma	2 +sigma	Age type	[U] (ppm)	U/Th	207Pb/235U Ratio	2 sigma	206Pb/238U Ratio	2 sigma	207Pb/235Uc age (Ma)	2–sigma	2 +sigma	206Pb/238U age (Ma)	2–sigma	2 +sigma	207Pb/206Pb age (Ma)	2–sigma	2 +sigma
P1462_043_Zrn_A_1_MBD_105	1448.23	46.68	45.63	207Pb/235Uc	538	2.17	3.16324	0.18923	0.24845	0.01147	1448.23	46.68	45.63	1430.46	59.36	59.08	1474.42	103.96	100.50
P1462_043_Zrn_A_1_MBD_52	1449.62	41.83	40.98	207Pb/235Uc	326	1.21	3.16894	0.16997	0.24387	0.00986	1449.62	41.83	40.98	1406.81	51.23	51.02	1512.97	98.68	95.55
P1462_043_Zrn_A_1_MBD_86	1487.88	70.12	69.74	206Pb/238U	114	1.16	3.20421	0.28718	0.25962	0.01366	1458.18	70.57	68.20	1487.88	70.12	69.74	1415.17	162.85	154.54
P1462_043_Zrn_A_1_MBD_98	1492.66	58.19	56.57	207Pb/235Uc	143	3.13	3.34945	0.24574	0.25622	0.01250	1492.66	58.19	56.57	1470.49	64.31	63.99	1524.31	129.99	124.62
P1462_043_Zrn_A_1_MBD_17	1506.25	44.29	43.35	207Pb/235Uc	145	1.52	3.40805	0.19020	0.26603	0.01212	1506.25	44.29	43.35	1520.63	61.87	61.58	1486.09	97.52	94.47
P1462_043_Zrn_A_1_MBD_100	1507.39	46.30	45.27	207Pb/235Uc	474	3.55	3.41299	0.19896	0.26402	0.01175	1507.39	46.30	45.27	1510.35	60.04	59.76	1503.23	94.83	91.94
P1462_043_Zrn_A_1_MBD_12	1509.44	50.43	49.21	207Pb/235Uc	155	1.08	3.42193	0.21692	0.25479	0.01217	1509.44	50.43	49.21	1463.13	62.70	62.40	1575.04	102.75	99.35
P1462_043_Zrn_A_1_MBD_36	1526.87	37.90	37.21	207Pb/235Uc	299	1.71	3.49846	0.16637	0.27055	0.01007	1526.87	37.90	37.21	1543.62	51.17	50.97	1503.73	86.03	83.64
P1462_043_Zrn_A_1_MBD_3	1532.23	42.22	41.36	207Pb/235Uc	530	7.91	3.52229	0.18611	0.27129	0.01087	1532.23	42.22	41.36	1547.34	55.25	55.01	1511.44	80.39	78.30
P1462_043_Zrn_A_1_MBD_7	1534.96	42.15	41.29	207Pb/235Uc	276	2.76	3.53446	0.18629	0.26725	0.01152	1534.96	42.15	41.29	1526.82	58.73	58.47	1546.19	77.90	75.93
P1462_043_Zrn_A_1_MBD_77	1535.42	49.75	48.56	207Pb/235Uc	140	1.23	3.53652	0.21956	0.25699	0.01051	1535.42	49.75	48.56	1474.42	54.00	53.77	1620.48	108.38	104.60
P1462_043_Zrn_A_1_MBD_106	1539.50	56.20	54.69	207Pb/235Uc	146	2.59	3.55478	0.24865	0.27105	0.01287	1539.50	56.20	54.69	1546.11	65.44	65.11	1530.43	124.61	119.67
P1462_043_Zrn_A_1_MBD_94	1549.94	53.26	51.90	207Pb/235Uc	77	1.97	3.60185	0.23826	0.26772	0.01359	1549.94	53.26	51.90	1529.21	69.31	68.94	1578.32	114.74	110.52
P1462_043_Zrn_A_1_MBD_16	1555.98	105.95	100.70	207Pb/235Uc	174	3.03	3.62930	0.47066	0.26232	0.03145	1555.98	105.95	100.70	1501.72	161.62	159.62	1630.44	173.71	164.20
P1462_043_Zrn_A_1_MBD_109	1571.01	51.67	50.38	207Pb/235Uc	257	1.34	3.69832	0.23605	0.26107	0.01139	1571.01	51.67	50.38	1495.33	58.37	58.10	1674.20	111.37	107.37
P1462_043_Zrn_A_1_MBD_103	1605.07	49.81	48.62	207Pb/235Uc	357	2.30	3.85861	0.23544	0.27268	0.01013	1605.07	49.81	48.62	1554.38	51.43	51.23	1672.25	110.11	106.20
P1462_043_Zrn_A_1_MBD_79	1613.92	83.77	83.23	206Pb/238U	37	1.23	3.52395	0.43151	0.28449	0.01664	1532.60	99.24	94.61	1613.92	83.77	83.23	1422.12	227.64	211.73
P1462_043_Zrn_A_1_MBD_46	1657.28	44.35	43.40	207Pb/235Uc	268	1.22	4.11496	0.22098	0.28720	0.00977	1657.28	44.35	43.40	1627.54	49.01	48.82	1695.17	91.00	88.31
P1462_043_Zrn_A_1_MBD_32	1686.30	55.22	53.76	207Pb/235Uc	364	1.78	4.26328	0.28237	0.29133	0.01829	1686.30	55.22	53.76	1648.17	91.62	90.97	1734.05	88.91	86.34
P1462_043_Zrn_A_1_MBD_89	1698.40	63.95	61.99	207Pb/235Uc	274	0.90	4.32637	0.33021	0.28515	0.01708	1698.40	63.95	61.99	1617.25	85.95	85.38	1800.05	134.85	129.00
P1462_043_Zrn_A_1_MBD_29	1713.05	64.37	62.39	207Pb/235Uc	201	1.95	4.40379	0.33719	0.30142	0.01604	1713.05	64.37	62.39	1698.34	79.70	79.21	1731.08	115.75	111.42
P1462_043_Zrn_A_1_MBD_0	1714.72	51.38	50.12	207Pb/235Uc	253	2.01	4.41268	0.27048	0.30479	0.01260	1714.72	51.38	50.12	1715.01	62.40	62.10	1714.37	105.99	102.36
P1462_043_Zrn_A_1_MBD_96	1719.28	52.66	51.33	207Pb/235Uc	107	2.13	4.43702	0.27837	0.31021	0.01393	1719.28	52.66	51.33	1741.73	68.72	68.36	1692.05	110.11	106.20
P1462_043_Zrn_A_1_MBD_62	1747.61	45.09	44.11	207Pb/235Uc	204	3.11	4.59087	0.24556	0.30521	0.01442	1747.61	45.09	44.11	1717.08	71.42	71.03	1784.33	81.46	79.29
P1462_043_Zrn_A_1_MBD_34	1750.26	89.45	85.68	207Pb/235Uc	101	1.17	4.60546	0.48312	0.31334	0.01838	1750.26	89.45	85.68	1757.12	90.52	89.89	1742.07	182.56	172.02
P1462_043_Zrn_A_1_MBD_64	1760.43	42.82	41.93	207Pb/235Uc	227	2.32	4.66191	0.23626	0.31428	0.01039	1760.43	42.82	41.93	1761.74	51.06	50.86	1758.88	87.08	84.61
P1462_043_Zrn_A_1_MBD_76	1767.34	60.81	59.04	207Pb/235Uc	313	1.55	4.70056	0.33634	0.31420	0.01996	1767.34	60.81	59.04	1761.35	98.26	97.52	1774.43	91.38	88.66
P1462_043_Zrn_A_1_MBD_27	1767.58	37.18	36.51	207Pb/235Uc	210	2.03	4.70190	0.20690	0.32423	0.01148	1767.58	37.18	36.51	1810.35	56.00	55.76	1717.41	73.13	71.38
P1462_043_Zrn_A_1_MBD_82	1773.74	44.93	43.96	207Pb/235Uc	212	1.12	4.73659	0.25108	0.30970	0.01128	1773.74	44.93	43.96	1739.23	55.63	55.39	1814.60	93.28	90.44
P1462_043_Zrn_A_1_MBD_65	1786.12	39.80	39.04	207Pb/235Uc	295	1.23	4.80697	0.22541	0.31650	0.01024	1786.12	39.80	39.04	1772.61	50.23	50.04	1801.94	80.06	77.96
P1462_043_Zrn_A_1_MBD_21	1807.53	53.45	52.08	207Pb/235Uc	165	1.96	4.93072	0.30810	0.32108	0.01778	1807.53	53.45	52.08	1795.00	87.05	86.47	1822.01	92.06	89.29
P1462_043_Zrn_A_1_MBD_102	1818.53	42.86	41.98	207Pb/235Uc	239	1.20	4.99532	0.25044	0.33030	0.01096	1818.53	42.86	41.98	1839.85	53.24	53.02	1794.19	86.98	84.51
P1462_043_Zrn_A_1_MBD_44	1824.54	59.74	58.03	207Pb/235Uc	59	1.37	5.03089	0.34966	0.33074	0.01674	1824.54	59.74	58.03	1841.98	81.33	80.82	1804.68	112.05	107.98
P1462_043_Zrn_A_1_MBD_71	1980.67	81.70	81.19	206Pb/238U	43	2.59	5.50853	0.51645	0.35968	0.01718	1901.93	82.21	79.01	1980.67	81.70	81.19	1817.08	160.59	152.35
P1462_043_Zrn_A_1_MBD_53	2004.59	80.71	77.62	207Pb/235Uc	274	2.13	6.20098	0.56116	0.35292	0.02750	2004.59	80.71	77.62	1948.55	131.72	130.39	2062.84	110.90	106.86

  

Sample GPS-556																			
Analysis Name	Preferred Age (Ma)	2–sigma	2 +sigma	Age Type	[U] (ppm)	U/Th	207Pb/235U Ratio	2 sigma	206Pb/238U Ratio	2 sigma	207Pb/235Uc Age (Ma)	2–sigma	2 +sigma	206Pb/238U Age (Ma)	2–sigma	2 +sigma	207Pb/206Pb Age (Ma)	2–sigma	2 +sigma
P1462_044_Zrn_A_1_MBD_38	144.76	8.23	8.23	206Pb/238U	300	1.39	0.16384	0.02184	0.02271	0.00131	154.06	19.15	18.97	144.76	8.23	8.23	299.63	326.15	296.30
P1462_044_Zrn_A_1_MBD_25	147.64	9.78	9.77	206Pb/238U	216	1.42	0.17044	0.02718	0.02317	0.00155	159.80	23.72	23.44	147.64	9.78	9.77	344.14	404.16	359.18
P1462_044_Zrn_A_1_MBD_41	153.97	9.93	9.92	206Pb/238U	238	1.35	0.16924	0.02291	0.02417	0.00158	158.76	19.99	19.80	153.97	9.93	9.92	230.90	336.98	305.34

**Table 2.** U–Pb age data from the Cretaceous Colombian back–arc basin (*continued*).

Analysis Name	Preferred Age (Ma)	Sample GPS–556																	
		2 –sigma	2 +sigma	Age Type	[U] (ppm)	U/Th	207Pb/235U Ratio	2 sigma	206Pb/238U Ratio	2 sigma	207Pb/235Uc Age (Ma)	2 –sigma	2 +sigma	206Pb/238U Age (Ma)	2 –sigma	2 +sigma	207Pb/206Pb Age (Ma)	2 –sigma	2 +sigma
P1462_044_Zrn_A_1_MBD_51	156.68	14.93	14.91	206Pb/238U	107	1.06	0.17317	0.02957	0.02460	0.00237	162.17	25.76	25.44	156.68	14.93	14.91	243.10	433.59	382.54
P1462_044_Zrn_A_1_MBD_52	158.43	9.75	9.75	206Pb/238U	175	1.35	0.17663	0.02029	0.02488	0.00155	165.16	17.59	17.44	158.43	9.75	9.75	262.66	275.34	253.81
P1462_044_Zrn_A_1_MBD_67	158.70	10.25	10.24	206Pb/238U	188	1.53	0.18957	0.03424	0.02492	0.00163	176.26	29.44	29.02	158.70	10.25	10.24	418.84	437.52	385.06
P1462_044_Zrn_A_1_MBD_45	159.22	16.79	16.76	206Pb/238U	199	1.19	0.18320	0.05358	0.02501	0.00267	170.81	46.51	45.47	159.22	16.79	16.76	334.59	669.18	617.42
P1462_044_Zrn_A_1_MBD_40	160.75	15.88	15.86	206Pb/238U	131	0.89	0.21012	0.08917	0.02525	0.00252	193.65	76.23	73.47	160.75	15.88	15.86	616.30	1100.87	816.30
P1462_044_Zrn_A_1_MBD_71	161.35	14.61	14.59	206Pb/238U	68	1.40	0.17373	0.05215	0.02534	0.00232	162.65	45.62	44.62	161.35	14.61	14.59	181.70	363.39	647.93
P1462_044_Zrn_A_1_MBD_15	161.89	11.47	11.46	206Pb/238U	102	1.15	0.17238	0.03434	0.02543	0.00182	161.48	29.97	29.53	161.89	11.47	11.46	155.49	310.98	430.74
P1462_044_Zrn_A_1_MBD_9	162.17	9.87	9.87	206Pb/238U	269	0.62	0.18263	0.02283	0.02548	0.00157	170.32	19.69	19.50	162.17	9.87	9.87	285.08	305.76	279.40
P1462_044_Zrn_A_1_MBD_27	162.71	6.70	6.70	206Pb/238U	610	0.96	0.18473	0.01649	0.02556	0.00107	172.13	14.18	14.08	162.71	6.70	6.70	303.62	208.97	196.30
P1462_044_Zrn_A_1_MBD_18	163.09	6.29	6.28	206Pb/238U	856	1.89	0.18317	0.01488	0.02562	0.00100	170.79	12.81	12.73	163.09	6.29	6.28	278.81	184.18	174.29
P1462_044_Zrn_A_1_MBD_3	163.38	15.88	15.86	206Pb/238U	101	1.74	0.19633	0.07819	0.02567	0.00253	182.01	67.47	65.30	163.38	15.88	15.86	431.40	862.80	791.71
P1462_044_Zrn_A_1_MBD_100	163.84	5.02	5.02	206Pb/238U	1091	0.70	0.18188	0.01527	0.02574	0.00080	169.68	13.16	13.08	163.84	5.02	5.02	251.86	197.53	186.20
P1462_044_Zrn_A_1_MBD_33	164.79	8.60	8.60	206Pb/238U	365	1.22	0.17544	0.02288	0.02589	0.00137	164.13	19.86	19.67	164.79	8.60	8.60	154.54	309.09	299.65
P1462_044_Zrn_A_1_MBD_4	164.87	8.04	8.03	206Pb/238U	789	1.44	0.17740	0.01525	0.02590	0.00128	165.82	13.19	13.11	164.87	8.04	8.03	179.46	208.65	196.12
P1462_044_Zrn_A_1_MBD_20	165.82	9.81	9.80	206Pb/238U	147	1.71	0.17816	0.04207	0.02606	0.00156	166.48	36.58	35.94	165.82	9.81	9.80	175.91	351.83	513.65
P1462_044_Zrn_A_1_MBD_58	166.53	15.16	15.15	206Pb/238U	199	1.16	0.17922	0.03949	0.02617	0.00241	167.39	34.29	33.72	166.53	15.16	15.15	179.51	359.02	488.28
P1462_044_Zrn_A_1_MBD_49	166.96	21.15	21.12	206Pb/238U	56	0.82	0.20694	0.06435	0.02624	0.00336	190.98	54.87	53.42	166.96	21.15	21.12	499.34	812.55	647.52
P1462_044_Zrn_A_1_MBD_17	167.65	8.42	8.42	206Pb/238U	321	0.71	0.19913	0.02978	0.02635	0.00134	184.39	25.38	25.06	167.65	8.42	8.42	404.53	362.77	325.99
P1462_044_Zrn_A_1_MBD_13	167.70	7.78	7.78	206Pb/238U	456	2.22	0.17177	0.01884	0.02636	0.00124	160.96	16.39	16.26	167.70	7.78	7.78	62.90	125.80	243.21
P1462_044_Zrn_A_1_MBD_14	168.76	7.78	7.78	206Pb/238U	584	0.47	0.18330	0.01517	0.02652	0.00124	170.90	13.06	12.98	168.76	7.78	7.78	200.58	193.96	183.07
P1462_044_Zrn_A_1_MBD_65	168.83	13.72	13.70	206Pb/238U	72	2.01	0.20336	0.07245	0.02654	0.00218	187.96	62.07	60.23	168.83	13.72	13.70	435.68	871.35	715.00
P1462_044_Zrn_A_1_MBD_82	168.98	14.18	14.17	206Pb/238U	550	0.65	0.19506	0.02786	0.02656	0.00226	180.94	23.81	23.54	168.98	14.18	14.17	340.16	341.70	309.00
P1462_044_Zrn_A_1_MBD_19	169.32	16.17	16.15	206Pb/238U	89	1.45	0.17707	0.03841	0.02661	0.00257	165.54	33.40	32.86	169.32	16.17	16.15	111.73	223.47	498.41
P1462_044_Zrn_A_1_MBD_28	170.69	8.71	8.71	206Pb/238U	90	0.91	0.20176	0.04730	0.02683	0.00139	186.61	40.36	39.58	170.69	8.71	8.71	393.22	578.21	490.06
P1462_044_Zrn_A_1_MBD_12	171.85	13.43	13.41	206Pb/238U	147	1.30	0.21439	0.04576	0.02702	0.00214	197.23	38.63	37.90	171.85	13.43	13.41	512.86	520.37	447.40
P1462_044_Zrn_A_1_MBD_2	172.29	10.05	10.04	206Pb/238U	229	1.25	0.18590	0.03278	0.02709	0.00160	173.12	28.27	27.88	172.29	10.05	10.04	184.48	368.97	395.15
P1462_044_Zrn_A_1_MBD_42	172.96	11.62	11.61	206Pb/238U	350	1.52	0.20157	0.03454	0.02719	0.00185	186.46	29.40	28.98	172.96	11.62	11.61	361.02	402.08	357.49
P1462_044_Zrn_A_1_MBD_69	173.54	7.38	7.37	206Pb/238U	522	0.98	0.19153	0.01632	0.02729	0.00118	177.93	13.95	13.86	173.54	7.38	7.37	236.70	206.85	194.48
P1462_044_Zrn_A_1_MBD_34	173.86	8.76	8.76	206Pb/238U	143	0.92	0.21480	0.03019	0.02734	0.00140	197.57	25.39	25.08	173.86	8.76	8.76	491.01	327.13	296.77
P1462_044_Zrn_A_1_MBD_97	174.09	7.19	7.18	206Pb/238U	452	0.70	0.19341	0.02055	0.02737	0.00115	179.54	17.56	17.41	174.09	7.19	7.18	251.81	257.90	238.93
P1462_044_Zrn_A_1_MBD_76	174.15	6.57	6.57	206Pb/238U	500	0.98	0.19235	0.02782	0.02738	0.00105	178.63	23.83	23.55	174.15	6.57	6.57	238.38	350.20	316.15
P1462_044_Zrn_A_1_MBD_46	174.38	10.34	10.33	206Pb/238U	287	0.75	0.19342	0.02380	0.02742	0.00165	179.54	20.35	20.15	174.38	10.34	10.33	248.06	287.18	263.86
P1462_044_Zrn_A_1_MBD_60	174.43	9.51	9.50	206Pb/238U	132	1.06	0.20397	0.03972	0.02743	0.00151	188.48	33.77	33.22	174.43	9.51	9.50	368.30	468.57	409.07
P1462_044_Zrn_A_1_MBD_79	174.69	8.46	8.45	206Pb/238U	385	0.89	0.20058	0.02550	0.02747	0.00135	185.61	21.69	21.46	174.69	8.46	8.45	327.04	301.47	275.75
P1462_044_Zrn_A_1_MBD_75	175.01	16.07	16.05	206Pb/238U	133	0.88	0.19885	0.06314	0.02752	0.00256	184.15	54.19	52.78	175.01	16.07	16.05	303.14	606.27	656.32
P1462_044_Zrn_A_1_MBD_29	175.79	15.24	15.23	206Pb/238U	140	1.23	0.19080	0.07326	0.02764	0.00243	177.31	63.45	61.53	175.79	15.24	15.23	197.65	395.30	799.62
P1462_044_Zrn_A_1_MBD_35	176.04	12.28	12.27	206Pb/238U	88	1.06	0.19749	0.04197	0.02768	0.00196	183.00	35.90	35.28	176.04	12.28	12.27	273.94	537.80	461.25
P1462_044_Zrn_A_1_MBD_21	176.61	12.16	12.14	206Pb/238U	79	1.15	0.19734	0.05863	0.02778	0.00194	182.88	50.34	49.12	176.61	12.16	12.14	264.56	529.13	625.96
P1462_044_Zrn_A_1_MBD_103	176.76	5.97	5.97	206Pb/238U	659	1.77	0.19761	0.02515	0.02780	0.00095	183.11	21.44	21.21	176.76	5.97	5.97	265.83	305.60	279.30
P1462_044_Zrn_A_1_MBD_84	177.48	18.70	18.68	206Pb/238U	280	0.94	0.19838	0.03330	0.02791	0.00298	183.76	28.41	28.02	177.48	18.70	18.68	265.22	424.48	375.36
P1462_044_Zrn_A_1_MBD_44	177.65	15.96	15.94	206Pb/238U	180	1.17	0.21278	0.04005	0.02794	0.00254	195.88	33.81	33.26	177.65	15.96	15.94	421.59	439.44	386.53
P1462_044_Zrn_A_1_MBD_94	178.25	5.41	5.41	206Pb/238U	717	0.70	0.20788	0.02132	0.02804	0.00086	191.78	18.00	17.84	178.25	5.41	5.41	361.72	240.32	223.66

**Table 2.** U–Pb age data from the Cretaceous Colombian back–arc basin (*continued*).

Analysis Name	Preferred Age (Ma)	Sample GPS-556																	
		2–sigma	2 +sigma	Age Type	[U] (ppm)	U/Th	207Pb/235U Ratio	2 sigma	206Pb/238U Ratio	2 sigma	207Pb/235Uc Age (Ma)	2–sigma	2 +sigma	206Pb/238U Age (Ma)	2–sigma	2 +sigma	207Pb/206Pb Age (Ma)	2–sigma	2 +sigma
P1462_044_Zrn_A_1_MBD_98	178.57	5.46	5.46	206Pb/238U	693	0.94	0.19204	0.01801	0.02809	0.00087	178.37	15.40	15.28	178.57	5.46	5.46	175.74	232.06	216.66
P1462_044_Zrn_A_1_MBD_96	178.94	6.85	6.85	206Pb/238U	328	1.23	0.20428	0.02691	0.02815	0.00109	188.74	22.81	22.56	178.94	6.85	6.85	313.18	311.64	284.26
P1462_044_Zrn_A_1_MBD_90	179.16	6.88	6.88	206Pb/238U	453	1.26	0.20704	0.02415	0.02818	0.00110	191.07	20.42	20.21	179.16	6.88	6.88	340.92	280.42	258.01
P1462_044_Zrn_A_1_MBD_39	180.38	17.86	17.84	206Pb/238U	73	1.36	0.22204	0.07514	0.02838	0.00285	203.60	63.41	61.49	180.38	17.86	17.84	481.81	878.83	689.03
P1462_044_Zrn_A_1_MBD_85	181.26	15.55	15.53	206Pb/238U	127	2.51	0.18321	0.03364	0.02852	0.00248	170.82	29.08	28.67	181.26	15.55	15.53	28.49	56.98	436.14
P1462_044_Zrn_A_1_MBD_59	181.32	11.73	11.72	206Pb/238U	76	1.82	0.21109	0.02887	0.02853	0.00187	194.47	24.35	24.06	181.32	11.73	11.72	357.16	336.57	304.77
P1462_044_Zrn_A_1_MBD_8	181.36	9.88	9.87	206Pb/238U	110	1.50	0.20312	0.04501	0.02853	0.00158	187.76	38.34	37.63	181.36	9.88	9.87	269.08	538.16	478.87
P1462_044_Zrn_A_1_MBD_72	181.91	11.93	11.92	206Pb/238U	153	1.08	0.22453	0.04649	0.02862	0.00190	205.67	38.92	38.18	181.91	11.93	11.92	487.57	505.56	436.51
P1462_044_Zrn_A_1_MBD_83	182.68	8.53	8.52	206Pb/238U	619	0.80	0.19239	0.01618	0.02874	0.00136	178.67	13.83	13.73	182.68	8.53	8.52	125.90	202.05	190.32
P1462_044_Zrn_A_1_MBD_106	182.74	8.39	8.39	206Pb/238U	449	1.14	0.19539	0.02737	0.02875	0.00134	181.21	23.38	23.12	182.74	8.39	8.39	161.36	322.71	311.66
P1462_044_Zrn_A_1_MBD_32	183.04	12.48	12.47	206Pb/238U	236	1.07	0.19654	0.04774	0.02880	0.00199	182.19	40.92	40.11	183.04	12.48	12.47	171.17	342.33	532.97
P1462_044_Zrn_A_1_MBD_87	184.12	7.84	7.83	206Pb/238U	442	1.72	0.21346	0.02393	0.02897	0.00125	196.45	20.12	19.93	184.12	7.84	7.83	347.27	267.03	246.63
P1462_044_Zrn_A_1_MBD_11	184.64	6.69	6.69	206Pb/238U	566	3.85	0.20285	0.01544	0.02906	0.00107	187.54	13.08	12.99	184.64	6.69	6.69	224.16	181.86	172.24
P1462_044_Zrn_A_1_MBD_61	185.20	14.18	14.17	206Pb/238U	138	1.48	0.21589	0.05927	0.02915	0.00226	198.48	50.11	48.90	185.20	14.18	14.17	359.41	694.12	571.02
P1462_044_Zrn_A_1_MBD_109	187.52	7.00	6.99	206Pb/238U	595	0.91	0.20482	0.02485	0.02952	0.00112	189.20	21.05	20.84	187.52	7.00	6.99	210.21	294.39	269.99
P1462_044_Zrn_A_1_MBD_66	187.71	12.99	12.97	206Pb/238U	295	0.86	0.19758	0.02664	0.02955	0.00207	183.08	22.72	22.46	187.71	12.99	12.97	123.78	247.57	302.28
P1462_044_Zrn_A_1_MBD_73	188.57	7.85	7.84	206Pb/238U	270	1.60	0.21335	0.02738	0.02968	0.00125	196.36	23.04	22.78	188.57	7.85	7.84	290.97	308.55	281.72
P1462_044_Zrn_A_1_MBD_108	189.51	13.04	13.03	206Pb/238U	169	0.76	0.22307	0.02649	0.02983	0.00208	204.47	22.11	21.87	189.51	13.04	13.03	380.60	314.84	286.80
P1462_044_Zrn_A_1_MBD_107	189.97	11.82	11.81	206Pb/238U	172	0.61	0.24693	0.04485	0.02991	0.00189	224.08	36.86	36.20	189.97	11.82	11.81	599.27	434.30	382.03
P1462_044_Zrn_A_1_MBD_62	191.24	13.06	13.04	206Pb/238U	106	0.96	0.22038	0.04163	0.03011	0.00209	202.23	34.94	34.34	191.24	13.06	13.04	332.30	463.75	405.52
P1462_044_Zrn_A_1_MBD_55	191.26	12.29	12.27	206Pb/238U	259	1.16	0.22086	0.02583	0.03011	0.00196	202.62	21.60	21.37	191.26	12.29	12.27	336.97	277.57	255.61
P1462_044_Zrn_A_1_MBD_92	192.84	12.74	12.73	206Pb/238U	84	0.43	0.22009	0.11017	0.03037	0.00204	201.99	93.82	89.68	192.84	12.74	12.73	310.13	620.25	976.96
P1462_044_Zrn_A_1_MBD_105	193.15	12.23	12.22	206Pb/238U	105	1.28	0.21775	0.04314	0.03042	0.00195	200.04	36.30	35.66	193.15	12.23	12.22	282.02	491.78	426.97
P1462_044_Zrn_A_1_MBD_102	194.77	6.80	6.80	206Pb/238U	332	1.52	0.21040	0.01765	0.03068	0.00109	193.89	14.86	14.76	194.77	6.80	6.80	183.08	213.09	200.03
P1462_044_Zrn_A_1_MBD_36	194.81	10.38	10.37	206Pb/238U	259	0.98	0.23521	0.03473	0.03068	0.00166	214.49	28.75	28.35	194.81	10.38	10.37	436.49	342.61	309.56
P1462_044_Zrn_A_1_MBD_37	197.25	12.51	12.49	206Pb/238U	155	1.14	0.20122	0.03983	0.03107	0.00200	186.16	33.95	33.39	197.25	12.51	12.49	47.68	95.35	442.55
P1462_044_Zrn_A_1_MBD_57	199.05	24.07	24.03	206Pb/238U	76	1.06	0.20643	0.06122	0.03136	0.00385	190.56	52.19	50.89	199.05	24.07	24.03	86.54	173.09	640.42
P1462_044_Zrn_A_1_MBD_80	202.10	15.58	15.56	206Pb/238U	140	0.82	0.24043	0.05438	0.03185	0.00249	218.77	45.01	44.04	202.10	15.58	15.56	402.13	536.89	460.03
P1462_044_Zrn_A_1_MBD_74	203.27	26.20	26.15	206Pb/238U	50	1.19	0.23477	0.07523	0.03203	0.00419	214.13	62.83	60.94	203.27	26.20	26.15	335.26	670.52	681.59
P1462_044_Zrn_A_1_MBD_95	466.93	12.95	12.94	206Pb/238U	524	3.37	0.60678	0.03865	0.07512	0.00216	481.53	24.57	24.28	466.93	12.95	12.94	551.63	143.46	137.28
P1462_044_Zrn_A_1_MBD_0	700.03	48.42	48.23	206Pb/238U	49	2.22	1.03742	0.14380	0.11471	0.00836	722.63	72.96	70.43	700.03	48.42	48.23	793.42	286.82	262.80
P1462_044_Zrn_A_1_MBD_104	817.16	31.00	30.92	206Pb/238U	128	3.21	1.36001	0.16481	0.13515	0.00545	871.87	72.18	69.70	817.16	31.00	30.92	1013.55	251.98	233.03
P1462_044_Zrn_A_1_MBD_50	917.78	42.85	41.96	207Pb/235Uc	299	3.66	1.46917	0.10310	0.14180	0.00741	917.78	42.85	41.96	854.86	41.92	41.78	1072.29	113.59	109.56
P1462_044_Zrn_A_1_MBD_6	918.37	29.77	29.70	206Pb/238U	223	1.92	1.53723	0.09897	0.15311	0.00532	945.39	40.00	39.23	918.37	29.77	29.70	1008.87	130.38	125.12
P1462_044_Zrn_A_1_MBD_10	944.41	32.49	32.41	206Pb/238U	112	5.78	1.50004	0.14723	0.15778	0.00583	930.40	60.70	58.93	944.41	32.49	32.41	897.36	206.08	193.31
P1462_044_Zrn_A_1_MBD_43	954.04	40.73	39.93	207Pb/235Uc	411	1.97	1.55891	0.10162	0.16204	0.00795	954.04	40.73	39.93	968.12	44.19	44.04	921.71	110.04	106.29
P1462_044_Zrn_A_1_MBD_78	1002.77	40.35	40.22	206Pb/238U	125	2.81	1.75445	0.14651	0.16831	0.00730	1028.80	54.74	53.30	1002.77	40.35	40.22	1084.59	166.38	157.87
P1462_044_Zrn_A_1_MBD_81	1026.79	33.97	33.88	206Pb/238U	228	3.04	1.76833	0.10740	0.17267	0.00617	1033.91	39.78	39.01	1026.79	33.97	33.88	1049.00	122.77	118.08
P1462_044_Zrn_A_1_MBD_24	1088.70	37.85	37.16	207Pb/235Uc	1331	4.22	1.92181	0.10791	0.17486	0.00846	1088.70	37.85	37.16	1038.82	46.50	46.33	1189.88	100.82	97.61
P1462_044_Zrn_A_1_MBD_70	1269.28	43.91	42.98	207Pb/235Uc	183	2.18	2.49052	0.14934	0.21368	0.00832	1269.28	43.91	42.98	1248.37	44.29	44.14	1304.89	120.73	116.14
P1462_044_Zrn_A_1_MBD_86	1310.74	31.49	31.00	207Pb/235Uc	308	1.82	2.63600	0.11188	0.22776	0.00869	1310.74	31.49	31.00	1322.73	45.72	45.56	1291.19	86.60	84.21
P1462_044_Zrn_A_1_MBD_31	1396.24	47.41	46.33	207Pb/235Uc	182	1.56	2.95542	0.18255	0.23115	0.01101	1396.24	47.41	46.33	1340.51	57.78	57.53	1482.42	121.90	117.17



**Table 2.** U–Pb age data from the Cretaceous Colombian back–arc basin (*continued*).

Sample GPS–556																			
Analysis Name	Preferred Age (Ma)	2 –sigma	2 +sigma	Age Type	[U] (ppm)	U/Th	207Pb/235U Ratio	2 sigma	206Pb/238U Ratio	2 sigma	207Pb/235Uc Age (Ma)	2 –sigma	2 +sigma	206Pb/238U Age (Ma)	2 –sigma	2 +sigma	207Pb/206Pb Age (Ma)	2 –sigma	2 +sigma
P1462_044_Zrn_A_1_MBD_30	1546.25	44.54	43.58	207Pb/235Uc	275	2.23	3.58516	0.19893	0.26494	0.01023	1546.25	44.54	43.58	1515.07	52.23	52.02	1589.13	94.40	91.53
P1462_044_Zrn_A_1_MBD_54	1721.14	49.83	48.64	207Pb/235Uc	194	2.11	4.44700	0.26406	0.30020	0.01451	1721.14	49.83	48.64	1692.29	72.12	71.72	1756.42	91.07	88.37
Sample GPS–564																			
Analysis name	Preferred age (Ma)	2 –sigma	2 +sigma	Age type	[U] (ppm)	U/Th	207Pb/235U Ratio	2 sigma	206Pb/238U Ratio	2 sigma	207Pb/235Uc age (Ma)	2 –sigma	2 +sigma	206Pb/238U age (Ma)	2 –sigma	2 +sigma	207Pb/206Pb age (Ma)	2 –sigma	2 +sigma
P1462_136_Zrn_A_1_MBD_13	420.08	15.53	15.51	206Pb/238U	241	1.19	0.49192	0.03251	0.06733	0.00257	406.22	22.25	22.01	420.08	15.53	15.51	328.17	148.18	141.69
P1462_136_Zrn_A_1_MBD_107	518.38	28.61	28.54	206Pb/238U	177	0.72	0.70192	0.07136	0.08373	0.00480	539.94	43.02	42.13	518.38	28.61	28.54	632.04	214.35	200.77
P1462_136_Zrn_A_1_MBD_104	523.07	17.05	17.03	206Pb/238U	369	1.69	0.70136	0.07044	0.08452	0.00287	539.61	42.48	41.61	523.07	17.05	17.03	610.08	215.86	202.12
P1462_136_Zrn_A_1_MBD_96	535.32	17.38	17.36	206Pb/238U	187	1.78	0.67955	0.07334	0.08659	0.00293	526.50	44.83	43.86	535.32	17.38	17.36	488.46	246.23	228.63
P1462_136_Zrn_A_1_MBD_26	546.57	21.26	21.23	206Pb/238U	312	1.67	0.74780	0.04791	0.08848	0.00359	566.95	28.02	27.64	546.57	21.26	21.23	649.58	138.15	132.38
P1462_136_Zrn_A_1_MBD_51	552.35	24.73	24.68	206Pb/238U	448	1.87	0.73085	0.05980	0.08946	0.00418	557.05	35.39	34.78	552.35	24.73	24.68	576.30	160.16	152.48
P1462_136_Zrn_A_1_MBD_52	610.44	26.53	26.47	206Pb/238U	283	2.09	0.88610	0.07588	0.09932	0.00452	644.27	41.26	40.44	610.44	26.53	26.47	764.73	167.50	159.03
P1462_136_Zrn_A_1_MBD_32	612.88	22.12	22.08	206Pb/238U	106	0.92	0.88316	0.11028	0.09974	0.00377	642.69	60.35	58.61	612.88	22.12	22.08	748.89	271.43	249.87
P1462_136_Zrn_A_1_MBD_94	883.37	36.47	36.37	206Pb/238U	76	2.14	1.43708	0.14283	0.14687	0.00648	904.51	60.40	58.65	883.37	36.47	36.37	956.48	208.85	195.71
P1462_136_Zrn_A_1_MBD_61	884.23	25.89	25.84	206Pb/238U	220	1.32	1.43643	0.12814	0.14702	0.00460	904.23	54.12	52.71	884.23	25.89	25.84	953.42	182.93	172.76
P1462_136_Zrn_A_1_MBD_82	884.32	30.84	30.77	206Pb/238U	273	1.72	1.51568	0.09666	0.14703	0.00548	936.73	39.40	38.65	884.32	30.84	30.77	1062.14	122.36	117.70
P1462_136_Zrn_A_1_MBD_40	889.78	52.23	52.02	206Pb/238U	133	4.61	1.52681	0.17233	0.14801	0.00928	941.22	70.46	68.10	889.78	52.23	52.02	1063.58	204.49	191.80
P1462_136_Zrn_A_1_MBD_55	898.56	33.23	33.15	206Pb/238U	110	1.41	1.34905	0.13318	0.14957	0.00592	867.15	58.40	56.77	898.56	33.23	33.15	787.70	204.87	192.33
P1462_136_Zrn_A_1_MBD_57	900.44	28.56	28.50	206Pb/238U	243	2.14	1.46743	0.10201	0.14991	0.00509	917.07	42.42	41.55	900.44	28.56	28.50	957.31	135.83	130.14
P1462_136_Zrn_A_1_MBD_7	909.90	33.49	33.40	206Pb/238U	121	1.65	1.41725	0.11321	0.15159	0.00597	896.21	48.12	47.01	909.90	33.49	33.40	862.60	162.95	154.88
P1462_136_Zrn_A_1_MBD_2	933.45	33.48	33.39	206Pb/238U	140	2.97	1.55663	0.13690	0.15581	0.00600	953.13	55.11	53.65	933.45	33.48	33.39	998.85	174.91	165.57
P1462_136_Zrn_A_1_MBD_23	936.20	51.46	51.26	206Pb/238U	77	3.06	1.73752	0.20861	0.15630	0.00921	1022.54	78.89	75.94	936.20	51.46	51.26	1212.29	230.64	214.49
P1462_136_Zrn_A_1_MBD_86	939.74	42.71	42.57	206Pb/238U	171	3.11	1.57113	0.20459	0.15694	0.00765	958.87	82.45	79.23	939.74	42.71	42.57	1003.01	263.91	243.21
P1462_136_Zrn_A_1_MBD_1	941.93	28.08	28.02	206Pb/238U	354	2.36	1.51213	0.09009	0.15733	0.00504	935.30	36.74	36.09	941.93	28.08	28.02	919.70	115.73	111.59
P1462_136_Zrn_A_1_MBD_41	944.91	69.26	68.89	206Pb/238U	91	1.94	1.51687	0.18332	0.15787	0.01241	937.22	75.34	72.64	944.91	69.26	68.89	919.17	211.05	197.66
P1462_136_Zrn_A_1_MBD_89	949.88	42.19	42.05	206Pb/238U	112	1.94	1.46328	0.13354	0.15876	0.00757	915.36	55.80	54.31	949.88	42.19	42.05	833.02	181.37	171.44
P1462_136_Zrn_A_1_MBD_17	952.36	46.31	46.14	206Pb/238U	106	1.47	1.57712	0.14459	0.15920	0.00831	961.24	57.78	56.18	952.36	46.31	46.14	981.61	174.90	165.57
P1462_136_Zrn_A_1_MBD_88	956.33	37.69	37.58	206Pb/238U	160	3.71	1.56406	0.10962	0.15992	0.00677	956.08	43.88	42.95	956.33	37.69	37.58	955.50	132.99	127.54
P1462_136_Zrn_A_1_MBD_24	957.50	36.21	36.11	206Pb/238U	147	1.91	1.63917	0.15684	0.16013	0.00651	985.39	61.26	59.46	957.50	36.21	36.11	1048.05	193.54	182.14
P1462_136_Zrn_A_1_MBD_54	965.46	32.47	32.39	206Pb/238U	240	2.71	1.60017	0.11815	0.16156	0.00584	970.28	46.67	45.62	965.46	32.47	32.39	981.19	142.26	136.03
P1462_136_Zrn_A_1_MBD_105	970.30	52.79	51.45	207Pb/235Uc	184	2.12	1.60022	0.13345	0.16165	0.00946	970.30	52.79	51.45	965.93	52.58	52.37	980.20	136.55	130.79
P1462_136_Zrn_A_1_MBD_20	973.64	37.48	37.37	206Pb/238U	180	2.39	1.73305	0.12941	0.16304	0.00675	1020.88	48.66	47.52	973.64	37.48	37.37	1123.62	141.46	135.25
P1462_136_Zrn_A_1_MBD_79	973.75	49.15	47.99	207Pb/235Uc	160	1.87	1.60907	0.12477	0.16512	0.00986	973.75	49.15	47.99	985.18	54.69	54.46	948.04	116.97	112.73
P1462_136_Zrn_A_1_MBD_108	982.89	47.85	47.68	206Pb/238U	62	2.63	1.53835	0.15942	0.16471	0.00863	945.85	64.79	62.79	982.89	47.85	47.68	860.57	222.21	207.46
P1462_136_Zrn_A_1_MBD_100	983.60	35.59	35.49	206Pb/238U	138	2.14	1.63407	0.12533	0.16484	0.00642	983.43	48.90	47.75	983.60	35.59	35.49	983.04	152.41	145.28
P1462_136_Zrn_A_1_MBD_9	984.89	29.66	29.59	206Pb/238U	151	0.96	1.65287	0.15578	0.16507	0.00535	990.65	60.52	58.77	984.89	29.66	29.59	1003.43	192.69	181.42
P1462_136_Zrn_A_1_MBD_3	985.34	44.84	44.68	206Pb/238U	117	3.27	1.56306	0.14655	0.16515	0.00809	955.68	58.90	57.24	985.34	44.84	44.68	888.01	184.88	174.54
P1462_136_Zrn_A_1_MBD_37	993.16	31.48	31.41	206Pb/238U	169	3.78	1.58904	0.17560	0.16657	0.00569	965.92	70.06	67.73	993.16	31.48	31.41	904.44	232.69	216.53
P1462_136_Zrn_A_1_MBD_83	1001.10	26.70	26.65	206Pb/238U	837	3.96	1.67090	0.09035	0.16800	0.00483	997.53	34.64	34.06	1001.10	26.70	26.65	989.67	101.69	98.46
P1462_136_Zrn_A_1_MBD_6	1002.51	40.08	39.96	206Pb/238U	133	2.54	1.74627	0.12609	0.16826	0.00725	1025.79	47.16	46.09	1002.51	40.08	39.96	1075.78	141.67	135.45
P1462_136_Zrn_A_1_MBD_45	1015.83	46.60	46.43	206Pb/238U	91	2.31	1.74335	0.14137	0.17067	0.00845	1024.70	53.01	51.66	1015.83	46.60	46.43	1043.70	157.90	150.23

**Table 2.** U–Pb age data from the Cretaceous Colombian back–arc basin (*continued*).

Sample GPS-564																			
Analysis name	Preferred age (Ma)	2–sigma	2 +sigma	Age type	[U] (ppm)	U/Th	207Pb/235U Ratio	2 sigma	206Pb/238U Ratio	2 sigma	207Pb/235Uc age (Ma)	2–sigma	2 +sigma	206Pb/238U age (Ma)	2–sigma	2 +sigma	207Pb/206Pb age (Ma)	2–sigma	2 +sigma
P1462_136_Zrn_A_1_MBD_65	1015.84	31.40	31.33	206Pb/238U	381	3.16	1.73148	0.10068	0.17068	0.00570	1020.30	37.78	37.09	1015.84	31.40	31.33	1029.88	111.27	107.41
P1462_136_Zrn_A_1_MBD_42	1016.58	55.72	55.48	206Pb/238U	34	2.37	1.68910	0.28809	0.17081	0.01010	1004.42	111.80	105.97	1016.58	55.72	55.48	977.98	372.73	332.76
P1462_136_Zrn_A_1_MBD_27	1022.46	33.47	33.38	206Pb/238U	165	2.39	1.76688	0.13542	0.17188	0.00608	1033.38	50.31	49.10	1022.46	33.47	33.38	1056.55	151.31	144.25
P1462_136_Zrn_A_1_MBD_28	1027.67	24.61	24.56	206Pb/238U	669	4.91	1.73318	0.09046	0.17283	0.00447	1020.93	33.89	33.33	1027.67	24.61	24.56	1006.52	102.46	99.19
P1462_136_Zrn_A_1_MBD_75	1037.73	47.94	47.76	206Pb/238U	141	2.31	1.73626	0.14180	0.17466	0.00872	1022.08	53.31	51.95	1037.73	47.94	47.76	988.70	146.36	139.77
P1462_136_Zrn_A_1_MBD_36	1042.33	39.61	39.49	206Pb/238U	201	2.49	1.84760	0.14847	0.17550	0.00721	1062.58	53.64	52.26	1042.33	39.61	39.49	1104.39	152.98	145.75
P1462_136_Zrn_A_1_MBD_93	1046.55	47.06	46.89	206Pb/238U	101	1.28	1.69940	0.18683	0.17627	0.00857	1008.31	71.52	69.09	1046.55	47.06	46.89	926.11	224.80	209.66
P1462_136_Zrn_A_1_MBD_97	1088.06	52.90	52.68	206Pb/238U	54	2.94	1.76760	0.18365	0.18387	0.00969	1033.64	68.52	66.28	1088.06	52.90	52.68	920.23	216.80	202.69
P1462_136_Zrn_A_1_MBD_4	1093.15	60.79	60.50	206Pb/238U	51	1.60	1.80471	0.24863	0.18480	0.01115	1047.16	92.07	88.07	1093.15	60.79	60.50	952.44	281.72	258.31
P1462_136_Zrn_A_1_MBD_33	1093.69	38.54	38.42	206Pb/238U	196	1.52	1.86209	0.13244	0.18490	0.00707	1067.73	47.54	46.45	1093.69	38.54	38.42	1015.07	136.39	130.64
P1462_136_Zrn_A_1_MBD_69	1114.12	32.25	32.17	206Pb/238U	230	3.31	2.06596	0.13874	0.18866	0.00594	1137.60	46.48	45.44	1114.12	32.25	32.17	1182.65	128.47	123.31
P1462_136_Zrn_A_1_MBD_15	1122.39	36.15	36.05	206Pb/238U	291	2.91	2.01357	0.14749	0.19019	0.00666	1120.10	50.31	49.10	1122.39	36.15	36.05	1115.65	137.17	131.32
P1462_136_Zrn_A_1_MBD_25	1131.53	49.99	48.79	207Pb/235Uc	503	2.05	2.04769	0.14823	0.18150	0.00930	1131.53	49.99	48.79	1075.14	50.83	50.63	1241.38	134.16	128.53
P1462_136_Zrn_A_1_MBD_103	1140.70	35.29	35.19	206Pb/238U	196	2.56	2.05672	0.13736	0.19357	0.00652	1134.53	46.15	45.12	1140.70	35.29	35.19	1122.75	129.63	124.39
P1462_136_Zrn_A_1_MBD_60	1169.32	37.46	37.35	206Pb/238U	271	2.48	2.11169	0.12320	0.19888	0.00696	1152.63	40.61	39.81	1169.32	37.46	37.35	1121.36	105.65	102.15
P1462_136_Zrn_A_1_MBD_73	1170.20	47.17	47.00	206Pb/238U	190	2.63	2.21254	0.16916	0.19905	0.00876	1185.02	54.18	52.77	1170.20	47.17	47.00	1212.15	131.79	126.35
P1462_136_Zrn_A_1_MBD_84	1170.70	48.57	47.44	207Pb/235Uc	83	0.74	2.16755	0.14973	0.19558	0.00929	1170.70	48.57	47.44	1151.52	50.19	49.99	1206.34	129.40	124.16
P1462_136_Zrn_A_1_MBD_92	1183.55	40.91	40.78	206Pb/238U	508	3.28	2.22567	0.18015	0.20153	0.00761	1189.16	57.51	55.93	1183.55	40.91	40.78	1199.36	149.42	142.48
P1462_136_Zrn_A_1_MBD_0	1190.59	43.58	42.67	207Pb/235Uc	94	3.07	2.23021	0.13717	0.19915	0.00807	1190.59	43.58	42.67	1170.75	43.47	43.32	1226.79	118.53	114.11
P1462_136_Zrn_A_1_MBD_16	1193.08	42.98	42.83	206Pb/238U	229	3.81	2.24187	0.14448	0.20331	0.00801	1194.24	45.76	44.76	1193.08	42.98	42.83	1196.34	120.76	116.19
P1462_136_Zrn_A_1_MBD_53	1199.22	37.37	37.27	206Pb/238U	287	1.98	2.28867	0.15023	0.20446	0.00697	1208.80	46.92	45.86	1199.22	37.37	37.27	1225.95	120.07	115.54
P1462_136_Zrn_A_1_MBD_5	1204.68	40.15	40.03	206Pb/238U	238	2.65	2.22404	0.15904	0.20548	0.00750	1188.64	50.72	49.48	1204.68	40.15	40.03	1159.58	131.90	126.48
P1462_136_Zrn_A_1_MBD_48	1210.18	50.52	50.32	206Pb/238U	174	3.16	2.29401	0.16839	0.20651	0.00944	1210.45	52.58	51.25	1210.18	50.52	50.32	1210.92	130.93	125.57
P1462_136_Zrn_A_1_MBD_102	1216.64	44.88	44.73	206Pb/238U	82	1.76	2.27855	0.20590	0.20772	0.00839	1205.67	64.79	62.79	1216.64	44.88	44.73	1186.08	172.82	163.60
P1462_136_Zrn_A_1_MBD_47	1233.60	43.46	43.32	206Pb/238U	56	0.26	2.41126	0.24048	0.21090	0.00815	1245.96	72.87	70.35	1233.60	43.46	43.32	1267.39	194.63	182.98
P1462_136_Zrn_A_1_MBD_39	1245.70	41.56	40.72	207Pb/235Uc	606	2.21	2.41041	0.13816	0.20961	0.00771	1245.70	41.56	40.72	1226.76	41.17	41.04	1278.61	96.27	93.33
P1462_136_Zrn_A_1_MBD_70	1247.54	55.63	54.15	207Pb/235Uc	318	4.18	2.41659	0.18466	0.21963	0.01113	1247.54	55.63	54.15	1279.93	58.95	58.68	1192.07	118.66	114.24
P1462_136_Zrn_A_1_MBD_87	1271.28	43.13	42.99	206Pb/238U	352	2.98	2.64107	0.15973	0.21800	0.00814	1312.16	45.04	44.06	1271.28	43.13	42.99	1379.59	100.76	97.52
P1462_136_Zrn_A_1_MBD_8	1298.55	51.98	50.68	207Pb/235Uc	155	2.53	2.59262	0.18159	0.21557	0.01070	1298.55	51.98	50.68	1258.40	56.88	56.63	1365.54	117.65	113.26
P1462_136_Zrn_A_1_MBD_74	1299.82	39.55	39.43	206Pb/238U	206	2.39	2.56212	0.16747	0.22340	0.00749	1289.90	48.31	47.18	1299.82	39.55	39.43	1273.42	125.29	120.35
P1462_136_Zrn_A_1_MBD_90	1358.56	71.51	71.11	206Pb/238U	44	2.17	2.92319	0.29496	0.23460	0.01366	1387.93	77.81	74.94	1358.56	71.51	71.11	1433.37	182.55	172.17
P1462_136_Zrn_A_1_MBD_31	1361.05	35.75	35.65	206Pb/238U	490	5.34	2.88981	0.16960	0.23508	0.00684	1379.26	44.76	43.80	1361.05	35.75	35.65	1407.55	103.11	99.72
P1462_136_Zrn_A_1_MBD_91	1381.56	41.81	41.67	206Pb/238U	93	1.65	2.95605	0.19339	0.23901	0.00802	1396.40	50.25	49.04	1381.56	41.81	41.67	1419.14	127.77	122.60
P1462_136_Zrn_A_1_MBD_18	1392.16	50.77	50.57	206Pb/238U	144	1.52	2.83541	0.19823	0.24105	0.00976	1364.96	53.17	51.81	1392.16	50.77	50.57	1322.62	122.92	118.15
P1462_136_Zrn_A_1_MBD_76	1426.01	52.86	52.64	206Pb/238U	108	2.92	3.25298	0.23313	0.24758	0.01021	1469.89	56.44	54.91	1426.01	52.86	52.64	1533.86	120.26	115.65
P1462_136_Zrn_A_1_MBD_71	1443.14	49.85	49.66	206Pb/238U	236	2.21	3.28125	0.22630	0.25090	0.00966	1476.62	54.39	52.98	1443.14	49.85	49.66	1525.07	119.56	115.00
P1462_136_Zrn_A_1_MBD_109	1446.95	71.89	69.43	207Pb/235Uc	96	1.00	3.15797	0.28923	0.23889	0.01602	1446.95	71.89	69.43	1380.92	83.65	83.11	1545.34	140.70	134.42
P1462_136_Zrn_A_1_MBD_14	1448.90	47.59	47.41	206Pb/238U	69	0.79	3.23240	0.24513	0.25202	0.00923	1464.96	59.68	57.97	1448.90	47.59	47.41	1488.33	135.75	129.91
P1462_136_Zrn_A_1_MBD_12	1451.98	50.63	50.43	206Pb/238U	155	2.40	3.23570	0.22317	0.25262	0.00982	1465.75	54.22	52.81	1451.98	50.63	50.43	1485.76	120.03	115.44
P1462_136_Zrn_A_1_MBD_21	1454.73	55.82	55.57	206Pb/238U	29	0.65	3.35415	0.45232	0.25316	0.01083	1493.76	108.32	102.83	1454.73	55.82	55.57	1549.60	262.90	241.78
P1462_136_Zrn_A_1_MBD_38	1455.99	61.01	60.72	206Pb/238U	86	0.96	3.35692	0.28005	0.25340	0.01183	1494.41	66.34	64.24	1455.99	61.01	60.72	1549.33	149.28	142.23
P1462_136_Zrn_A_1_MBD_106	1463.48	46.50	45.46	207Pb/235Uc	341	0.96	3.22621	0.19133	0.24291	0.00889	1463.48	46.50	45.46	1401.81	46.21	46.04	1554.15	96.80	93.78

**Table 2.** U–Pb age data from the Cretaceous Colombian back–arc basin (*continued*).

Sample GPS–564																			
Analysis name	Preferred age (Ma)	2 –sigma	2 +sigma	Age type	[U] (ppm)	U/Th	207Pb/235U Ratio	2 sigma	206Pb/238U Ratio	2 sigma	207Pb/235Uc age (Ma)	2 –sigma	2 +sigma	206Pb/238U age (Ma)	2 –sigma	2 +sigma	207Pb/206Pb age (Ma)	2 –sigma	2 +sigma
P1462_136_Zrn_A_1_MBD_67	1465.40	51.05	49.80	207Pb/235Uc	269	1.82	3.23421	0.21024	0.24988	0.00978	1465.40	51.05	49.80	1437.84	50.55	50.35	1505.57	104.00	100.53
P1462_136_Zrn_A_1_MBD_63	1484.98	76.46	76.00	206Pb/238U	72	1.10	3.48436	0.37032	0.25905	0.01489	1523.68	85.63	82.17	1484.98	76.46	76.00	1577.85	182.98	172.48
P1462_136_Zrn_A_1_MBD_22	1494.53	48.52	47.38	207Pb/235Uc	114	2.29	3.35745	0.20574	0.25144	0.00985	1494.53	48.52	47.38	1445.91	50.82	50.62	1564.19	98.41	95.29
P1462_136_Zrn_A_1_MBD_11	1496.84	49.31	48.14	207Pb/235Uc	178	0.87	3.36740	0.20955	0.26474	0.00988	1496.84	49.31	48.14	1514.05	50.46	50.26	1472.57	108.61	104.85
P1462_136_Zrn_A_1_MBD_95	1498.74	42.46	42.32	206Pb/238U	145	0.91	3.37324	0.24176	0.26174	0.00830	1498.20	56.92	55.37	1498.74	42.46	42.32	1497.44	133.48	127.82
P1462_136_Zrn_A_1_MBD_77	1500.95	56.74	55.20	207Pb/235Uc	344	2.19	3.38509	0.24165	0.26774	0.01352	1500.95	56.74	55.20	1529.32	68.96	68.59	1461.13	103.17	99.77
P1462_136_Zrn_A_1_MBD_10	1514.91	44.37	44.22	206Pb/238U	149	1.01	3.60724	0.20630	0.26491	0.00869	1551.13	45.98	44.97	1514.91	44.37	44.22	1600.82	96.02	93.05
P1462_136_Zrn_A_1_MBD_78	1521.08	39.30	39.18	206Pb/238U	298	4.82	3.60856	0.21192	0.26612	0.00771	1551.42	47.24	46.16	1521.08	39.30	39.18	1592.98	102.12	98.76
P1462_136_Zrn_A_1_MBD_44	1521.24	87.03	83.46	207Pb/235Uc	125	0.78	3.47359	0.37535	0.24304	0.01700	1521.24	87.03	83.46	1402.46	88.48	87.87	1690.65	166.79	157.98
P1462_136_Zrn_A_1_MBD_50	1524.79	56.24	54.72	207Pb/235Uc	139	1.51	3.48927	0.24522	0.26182	0.01176	1524.79	56.24	54.72	1499.13	60.21	59.93	1560.59	112.96	108.87
P1462_136_Zrn_A_1_MBD_35	1541.74	81.60	81.09	206Pb/238U	31	0.57	3.98374	0.47505	0.27018	0.01603	1630.89	99.17	94.55	1541.74	81.60	81.09	1747.86	208.31	194.70
P1462_136_Zrn_A_1_MBD_80	1622.75	56.88	55.33	207Pb/235Uc	211	2.54	3.94393	0.27311	0.28785	0.01342	1622.75	56.88	55.33	1630.76	67.34	66.99	1612.37	105.27	101.70
P1462_136_Zrn_A_1_MBD_64	1624.86	58.79	57.14	207Pb/235Uc	227	3.55	3.95425	0.28274	0.28088	0.01164	1624.86	58.79	57.14	1595.79	58.72	58.45	1662.71	115.75	111.44
P1462_136_Zrn_A_1_MBD_56	1678.77	60.20	58.47	207Pb/235Uc	259	1.69	4.22437	0.30521	0.29861	0.01625	1678.77	60.20	58.47	1684.40	80.93	80.43	1671.74	100.90	97.61
P1462_136_Zrn_A_1_MBD_19	1706.84	65.36	63.32	207Pb/235Uc	185	1.32	4.37080	0.34020	0.30343	0.01429	1706.84	65.36	63.32	1708.31	70.89	70.50	1705.03	124.93	119.92
P1462_136_Zrn_A_1_MBD_29	1719.82	125.43	124.22	206Pb/238U	211	1.70	5.43681	1.26559	0.30576	0.02528	1890.68	210.15	190.43	1719.82	125.43	124.22	2083.86	424.11	370.51
P1462_136_Zrn_A_1_MBD_85	1732.90	60.08	58.35	207Pb/235Uc	122	1.49	4.51047	0.32127	0.30978	0.01602	1732.90	60.08	58.35	1739.63	79.07	78.58	1724.79	119.56	114.96
P1462_136_Zrn_A_1_MBD_62	1744.99	43.81	43.66	206Pb/238U	253	1.54	4.76936	0.26573	0.31087	0.00889	1779.52	47.31	46.24	1744.99	43.81	43.66	1820.27	93.68	90.81
P1462_136_Zrn_A_1_MBD_98	1763.47	54.05	53.82	206Pb/238U	221	1.80	4.73481	0.30813	0.31463	0.01100	1773.42	55.30	53.84	1763.47	54.05	53.82	1785.16	103.45	99.97
P1462_136_Zrn_A_1_MBD_68	1769.90	53.53	52.15	207Pb/235Uc	492	2.06	4.71497	0.29733	0.30757	0.01301	1769.90	53.53	52.15	1728.75	64.29	63.97	1818.81	91.56	88.82
P1462_136_Zrn_A_1_MBD_30	1772.37	49.53	48.35	207Pb/235Uc	176	1.80	4.72885	0.27605	0.31869	0.01233	1772.37	49.53	48.35	1783.33	60.44	60.15	1759.48	89.65	87.03
P1462_136_Zrn_A_1_MBD_81	1834.00	73.57	70.99	207Pb/235Uc	226	1.28	5.08733	0.43315	0.32427	0.02211	1834.00	73.57	70.99	1810.53	108.08	107.18	1860.74	106.75	103.04
P1462_136_Zrn_A_1_MBD_72	1905.82	65.50	63.45	207Pb/235Uc	151	2.17	5.53350	0.41474	0.34415	0.01734	1905.82	65.50	63.45	1906.62	83.44	82.90	1904.95	106.83	103.11
P1462_136_Zrn_A_1_MBD_66	1908.81	45.29	44.30	207Pb/235Uc	226	1.95	5.55282	0.28904	0.34310	0.01020	1908.81	45.29	44.30	1901.58	49.03	48.85	1916.69	89.92	87.27
P1462_136_Zrn_A_1_MBD_34	1978.53	46.14	45.12	207Pb/235Uc	140	2.02	6.01854	0.31536	0.36123	0.01250	1978.53	46.14	45.12	1987.98	59.34	59.07	1968.67	94.25	91.33
P1462_136_Zrn_A_1_MBD_43	2018.39	50.54	49.31	207Pb/235Uc	152	7.01	6.29956	0.35886	0.35787	0.01288	2018.39	50.54	49.31	1972.09	61.27	60.98	2066.10	89.78	87.12
P1462_136_Zrn_A_1_MBD_59	2117.80	64.01	62.05	207Pb/235Uc	198	1.48	7.05033	0.49958	0.38722	0.02134	2117.80	64.01	62.05	2109.92	99.53	98.77	2125.46	86.06	83.60
P1462_136_Zrn_A_1_MBD_101	2141.54	55.30	53.83	207Pb/235Uc	76	1.98	7.24076	0.44273	0.39286	0.01419	2141.54	55.30	53.83	2136.06	65.83	65.50	2146.80	101.09	97.72

  

Sample GPS–568																			
Analysis name	Preferred age (Ma)	2 –sigma	2 +sigma	Age type	[U] (ppm)	U/Th	207Pb/235U Ratio	2 sigma	206Pb/238U Ratio	2 sigma	207Pb/235Uc age (Ma)	2 –sigma	2 +sigma	206Pb/238U age (Ma)	2 –sigma	2 +sigma	207Pb/206Pb age (Ma)	2 –sigma	2 +sigma
P1462_140_Zrn_A_1_MBD_56	486.59	77.74	77.27	206Pb/238U	24	5.91	0.59067	0.32707	0.07840	0.01297	471.30	220.31	198.73	486.59	77.74	77.27	397.51	795.03	1042.73
P1462_140_Zrn_A_1_MBD_12	521.32	15.05	15.03	206Pb/238U	179	1.12	0.68210	0.05800	0.08423	0.00253	528.04	35.32	34.71	521.32	15.05	15.03	557.23	192.39	181.43
P1462_140_Zrn_A_1_MBD_109	537.43	49.54	49.35	206Pb/238U	589	4.67	0.73038	0.11361	0.08694	0.00834	556.78	67.79	65.60	537.43	49.54	49.35	636.69	303.33	276.83
P1462_140_Zrn_A_1_MBD_66	558.81	27.82	27.76	206Pb/238U	169	1.39	0.75080	0.06956	0.09055	0.00470	568.69	40.75	39.95	558.81	27.82	27.76	608.40	200.15	188.28
P1462_140_Zrn_A_1_MBD_37	584.44	28.27	28.20	206Pb/238U	75	1.78	0.74889	0.11727	0.09490	0.00480	567.58	69.25	66.97	584.44	28.27	28.20	500.57	366.73	328.97
P1462_140_Zrn_A_1_MBD_63	896.54	54.26	54.03	206Pb/238U	66	1.31	1.34419	0.15989	0.14921	0.00965	865.05	70.47	68.10	896.54	54.26	54.03	785.21	240.57	223.45
P1462_140_Zrn_A_1_MBD_40	930.49	31.71	31.63	206Pb/238U	211	1.41	1.47923	0.09541	0.15528	0.00568	921.92	39.45	38.70	930.49	31.71	31.63	901.45	125.30	120.46
P1462_140_Zrn_A_1_MBD_93	949.32	38.68	37.95	207Pb/235Uc	252	1.89	1.54706	0.09610	0.15750	0.00688	949.32	38.68	37.95	942.86	38.35	38.24	964.35	123.84	119.09
P1462_140_Zrn_A_1_MBD_17	955.80	47.88	47.70	206Pb/238U	104	2.71	1.55665	0.13113	0.15982	0.00860	953.14	52.76	51.42	955.80	47.88	47.70	947.00	177.05	167.52
P1462_140_Zrn_A_1_MBD_9	959.21	63.98	63.66	206Pb/238U	106	1.89	1.54597	0.17626	0.16044	0.01149	948.89	71.54	69.11	959.21	63.98	63.66	925.01	250.40	231.77

**Table 2.** U–Pb age data from the Cretaceous Colombian back–arc basin (*continued*).

Analysis name	Preferred age (Ma)	Sample GPS-568																	
		2–sigma	2 +sigma	Age type	[U] (ppm)	U/Th	207Pb/235U Ratio	2 sigma	206Pb/238U Ratio	2 sigma	207Pb/235Uc age (Ma)	2–sigma	2 +sigma	206Pb/238U age (Ma)	2–sigma	2 +sigma	207Pb/206Pb age (Ma)	2–sigma	2 +sigma
P1462_140_Zrn_A_1_MBD_55	968.04	39.46	38.70	207Pb/235Uc	358	2.34	1.59445	0.09984	0.15784	0.00857	968.04	39.46	38.70	944.74	47.80	47.63	1021.31	98.04	95.04
P1462_140_Zrn_A_1_MBD_46	1003.57	42.53	42.39	206Pb/238U	151	2.61	1.66315	0.14415	0.16845	0.00770	994.58	55.72	54.23	1003.57	42.53	42.39	974.80	166.72	158.23
P1462_140_Zrn_A_1_MBD_70	1070.57	32.49	32.41	206Pb/238U	400	2.45	1.91874	0.12312	0.18066	0.00594	1087.63	43.29	42.39	1070.57	32.49	32.41	1121.95	123.42	118.67
P1462_140_Zrn_A_1_MBD_53	1104.80	46.89	46.72	206Pb/238U	211	2.57	1.92001	0.13909	0.18694	0.00862	1088.07	48.95	47.80	1104.80	46.89	46.72	1054.73	131.96	126.56
P1462_140_Zrn_A_1_MBD_79	1160.61	60.13	59.85	206Pb/238U	275	1.25	2.36775	0.22616	0.19727	0.01114	1232.92	69.36	67.07	1160.61	60.13	59.85	1361.67	172.06	162.84
P1462_140_Zrn_A_1_MBD_5	1184.81	33.31	33.23	206Pb/238U	597	2.97	2.23066	0.10896	0.20177	0.00620	1190.73	34.54	33.96	1184.81	33.31	33.23	1201.48	89.96	87.40
P1462_140_Zrn_A_1_MBD_80	1207.77	51.42	50.15	207Pb/235Uc	271	1.73	2.28534	0.16428	0.19971	0.01245	1207.77	51.42	50.15	1173.77	67.05	66.70	1269.07	100.11	96.93
P1462_140_Zrn_A_1_MBD_69	1232.81	36.16	36.06	206Pb/238U	243	2.15	2.49491	0.13671	0.21075	0.00678	1270.56	40.11	39.33	1232.81	36.16	36.06	1335.01	98.73	95.63
P1462_140_Zrn_A_1_MBD_72	1249.12	34.28	33.71	207Pb/235Uc	297	2.31	2.42191	0.11457	0.21137	0.00713	1249.12	34.28	33.71	1236.14	37.98	37.87	1271.59	84.42	82.15
P1462_140_Zrn_A_1_MBD_87	1258.08	35.34	34.74	207Pb/235Uc	1495	1.76	2.45223	0.11912	0.21036	0.00804	1258.08	35.34	34.74	1230.75	42.89	42.75	1305.13	84.56	82.28
P1462_140_Zrn_A_1_MBD_85	1264.23	37.62	37.51	206Pb/238U	128	1.50	2.49679	0.17386	0.21667	0.00709	1271.10	51.12	49.87	1264.23	37.62	37.51	1282.74	135.46	129.71
P1462_140_Zrn_A_1_MBD_28	1270.51	43.88	42.95	207Pb/235Uc	108	2.86	2.49475	0.14940	0.21365	0.00833	1270.51	43.88	42.95	1248.22	44.32	44.17	1308.43	117.44	113.09
P1462_140_Zrn_A_1_MBD_26	1279.68	52.33	51.02	207Pb/235Uc	289	3.52	2.52644	0.17944	0.20395	0.01504	1279.68	52.33	51.02	1196.48	80.76	80.26	1422.23	132.88	127.29
P1462_140_Zrn_A_1_MBD_77	1289.48	52.42	51.10	207Pb/235Uc	275	2.52	2.56066	0.18148	0.22482	0.01066	1289.48	52.42	51.10	1307.32	56.23	55.99	1259.90	112.30	108.32
P1462_140_Zrn_A_1_MBD_10	1291.19	48.70	47.56	207Pb/235Uc	165	1.77	2.56667	0.16903	0.21404	0.00885	1291.19	48.70	47.56	1250.30	47.06	46.89	1359.87	125.55	120.57
P1462_140_Zrn_A_1_MBD_90	1298.62	45.22	44.23	207Pb/235Uc	295	2.15	2.59284	0.15823	0.21469	0.01026	1298.62	45.22	44.23	1253.75	54.55	54.32	1373.55	101.17	97.91
P1462_140_Zrn_A_1_MBD_48	1303.53	38.10	37.40	207Pb/235Uc	263	2.01	2.61026	0.13421	0.22261	0.00713	1303.53	38.10	37.40	1295.66	37.67	37.56	1316.51	89.54	86.99
P1462_140_Zrn_A_1_MBD_50	1304.07	34.99	34.39	207Pb/235Uc	481	1.84	2.61219	0.12339	0.22509	0.00666	1304.07	34.99	34.39	1308.74	35.11	35.01	1296.41	81.09	78.99
P1462_140_Zrn_A_1_MBD_102	1306.61	40.21	39.43	207Pb/235Uc	257	2.11	2.62124	0.14199	0.21974	0.00813	1306.61	40.21	39.43	1280.49	43.03	42.89	1349.75	91.51	88.84
P1462_140_Zrn_A_1_MBD_86	1321.78	42.90	42.01	207Pb/235Uc	178	2.44	2.67575	0.15367	0.22706	0.01024	1321.78	42.90	42.01	1319.05	53.92	53.70	1326.22	102.59	99.25
P1462_140_Zrn_A_1_MBD_57	1324.71	85.24	81.81	207Pb/235Uc	47	1.10	2.68637	0.30307	0.21642	0.01524	1324.71	85.24	81.81	1262.92	81.01	80.51	1426.10	197.42	185.34
P1462_140_Zrn_A_1_MBD_89	1339.45	44.28	44.13	206Pb/238U	71	0.78	2.88096	0.30236	0.23094	0.00844	1376.94	80.69	77.60	1339.45	44.28	44.13	1435.58	204.59	191.64
P1462_140_Zrn_A_1_MBD_84	1343.73	37.86	37.75	206Pb/238U	248	1.22	2.73821	0.15149	0.23176	0.00722	1338.89	41.57	40.74	1343.73	37.86	37.75	1331.16	100.94	97.71
P1462_140_Zrn_A_1_MBD_101	1345.99	44.56	43.60	207Pb/235Uc	136	1.49	2.76443	0.16338	0.23597	0.01271	1345.99	44.56	43.60	1365.70	66.45	66.11	1314.80	96.52	93.56
P1462_140_Zrn_A_1_MBD_100	1347.34	58.38	56.74	207Pb/235Uc	415	1.93	2.76944	0.21362	0.21570	0.01290	1347.34	58.38	56.74	1259.13	68.57	68.21	1490.29	108.05	104.31
P1462_140_Zrn_A_1_MBD_65	1366.94	62.04	60.20	207Pb/235Uc	553	2.52	2.84293	0.23126	0.21943	0.01086	1366.94	62.04	60.20	1278.87	57.52	57.27	1507.41	137.06	131.11
P1462_140_Zrn_A_1_MBD_95	1373.41	38.84	38.11	207Pb/235Uc	385	2.44	2.86749	0.14654	0.23251	0.00749	1373.41	38.84	38.11	1347.65	39.25	39.13	1413.71	86.36	83.96
P1462_140_Zrn_A_1_MBD_33	1390.49	34.12	33.56	207Pb/235Uc	275	2.10	2.93307	0.13108	0.24283	0.00680	1390.49	34.12	33.56	1401.37	35.32	35.23	1373.82	79.26	77.24
P1462_140_Zrn_A_1_MBD_58	1410.49	53.56	53.34	206Pb/238U	147	1.93	3.00314	0.21811	0.24459	0.01032	1408.42	56.09	54.58	1410.49	53.56	53.34	1405.28	128.68	123.44
P1462_140_Zrn_A_1_MBD_32	1433.43	38.72	38.00	207Pb/235Uc	328	2.31	3.10299	0.15498	0.24427	0.00941	1433.43	38.72	38.00	1408.86	48.85	48.66	1470.10	77.81	75.85
P1462_140_Zrn_A_1_MBD_13	1438.01	40.36	39.58	207Pb/235Uc	197	1.43	3.12154	0.16223	0.24448	0.01013	1438.01	40.36	39.58	1409.95	52.60	52.39	1479.78	106.77	103.13
P1462_140_Zrn_A_1_MBD_38	1457.06	73.06	72.65	206Pb/238U	55	1.29	3.05911	0.31299	0.25361	0.01417	1422.52	79.84	76.82	1457.06	73.06	72.65	1371.18	200.91	188.45
P1462_140_Zrn_A_1_MBD_71	1468.82	67.69	67.34	206Pb/238U	77	0.63	3.30736	0.30464	0.25590	0.01315	1482.79	73.11	70.57	1468.82	67.69	67.34	1502.83	167.83	158.98
P1462_140_Zrn_A_1_MBD_74	1472.13	67.45	65.28	207Pb/235Uc	300	1.75	3.26238	0.27850	0.24523	0.01329	1472.13	67.45	65.28	1413.82	68.98	68.62	1557.24	136.41	130.49
P1462_140_Zrn_A_1_MBD_68	1472.76	30.05	29.61	207Pb/235Uc	570	1.58	3.26503	0.12530	0.25547	0.00600	1472.76	30.05	29.61	1466.61	30.85	30.78	1481.65	64.20	62.87
P1462_140_Zrn_A_1_MBD_105	1481.62	43.54	42.62	207Pb/235Uc	119	2.10	3.30239	0.18251	0.25162	0.00882	1481.62	43.54	42.62	1446.85	45.53	45.36	1531.77	99.56	96.38
P1462_140_Zrn_A_1_MBD_76	1504.84	62.13	61.83	206Pb/238U	106	0.76	3.35381	0.27828	0.26293	0.01214	1493.68	65.96	63.88	1504.84	62.13	61.83	1477.88	157.08	149.32
P1462_140_Zrn_A_1_MBD_103	1507.14	40.59	39.80	207Pb/235Uc	302	2.08	3.41189	0.17463	0.25984	0.00888	1507.14	40.59	39.80	1489.04	45.51	45.35	1532.66	83.15	80.92
P1462_140_Zrn_A_1_MBD_31	1513.93	42.42	41.55	207Pb/235Uc	509	1.62	3.44152	0.18361	0.25404	0.00866	1513.93	42.42	41.55	1459.30	44.60	44.44	1591.21	95.10	92.18
P1462_140_Zrn_A_1_MBD_6	1515.49	40.18	39.40	207Pb/235Uc	246	1.68	3.44835	0.17430	0.25952	0.01131	1515.49	40.18	39.40	1487.38	58.01	57.75	1554.99	112.25	108.21
P1462_140_Zrn_A_1_MBD_59	1516.06	42.54	41.67	207Pb/235Uc	505	1.86	3.45083	0.18454	0.26469	0.01211	1516.06	42.54	41.67	1513.78	61.86	61.57	1519.25	63.13	61.84
P1462_140_Zrn_A_1_MBD_18	1517.09	98.13	93.60	207Pb/235Uc	194	1.12	3.45536	0.42033	0.26242	0.03026	1517.09	98.13	93.60	1502.22	155.45	153.60	1537.90	135.57	129.73

**Table 2.** U–Pb age data from the Cretaceous Colombian back–arc basin (*continued*).

Analysis name	Preferred age (Ma)	Sample GPS–568																	
		2 –sigma	2 +sigma	Age type	[U] (ppm)	U/Th	207Pb/235U Ratio	2 sigma	206Pb/238U Ratio	2 sigma	207Pb/235Uc age (Ma)	2 –sigma	2 +sigma	206Pb/238U age (Ma)	2 –sigma	2 +sigma	207Pb/206Pb age (Ma)	2 –sigma	2 +sigma
P1462_140_Zrn_A_1_MBD_106	1522.30	45.57	44.57	207Pb/235Uc	191	0.86	3.47827	0.19876	0.25977	0.00905	1522.30	45.57	44.57	1488.68	46.37	46.20	1569.36	103.12	99.70
P1462_140_Zrn_A_1_MBD_61	1526.19	84.39	83.84	206Pb/238U	28	1.67	3.35177	0.39732	0.26712	0.01653	1493.21	94.89	90.65	1526.19	84.39	83.84	1446.69	215.51	201.18
P1462_140_Zrn_A_1_MBD_97	1536.51	55.18	53.72	207Pb/235Uc	96	1.05	3.54138	0.24349	0.26547	0.01070	1536.51	55.18	53.72	1517.77	54.62	54.39	1562.39	128.39	123.13
P1462_140_Zrn_A_1_MBD_64	1540.05	35.79	35.17	207Pb/235Uc	466	2.31	3.55722	0.15921	0.26224	0.00944	1540.05	35.79	35.17	1501.30	48.32	48.14	1593.65	72.45	70.74
P1462_140_Zrn_A_1_MBD_19	1542.17	39.90	39.13	207Pb/235Uc	442	2.84	3.56679	0.17768	0.26832	0.01186	1542.17	39.90	39.13	1532.28	60.41	60.13	1555.77	75.80	73.94
P1462_140_Zrn_A_1_MBD_107	1543.41	42.08	41.22	207Pb/235Uc	264	1.41	3.57235	0.18753	0.26486	0.01011	1543.41	42.08	41.22	1514.64	51.61	51.40	1583.04	81.94	79.77
P1462_140_Zrn_A_1_MBD_94	1545.86	55.04	53.58	207Pb/235Uc	122	0.80	3.58339	0.24509	0.26942	0.01105	1545.86	55.04	53.58	1537.87	56.22	55.97	1556.80	117.10	112.71
P1462_140_Zrn_A_1_MBD_22	1561.17	65.61	63.55	207Pb/235Uc	109	1.13	3.65302	0.29584	0.26888	0.01404	1561.17	65.61	63.55	1535.11	71.54	71.15	1596.60	133.69	127.99
P1462_140_Zrn_A_1_MBD_23	1577.99	41.28	40.45	207Pb/235Uc	138	1.82	3.73074	0.19037	0.27281	0.01025	1577.99	41.28	40.45	1555.03	52.00	51.79	1608.82	83.72	81.44
P1462_140_Zrn_A_1_MBD_36	1581.37	48.30	47.18	207Pb/235Uc	203	1.04	3.74650	0.22312	0.27873	0.01245	1581.37	48.30	47.18	1584.94	62.92	62.61	1576.60	105.53	101.95
P1462_140_Zrn_A_1_MBD_52	1596.40	81.04	77.93	207Pb/235Uc	98	1.16	3.81730	0.37690	0.26592	0.01664	1596.40	81.04	77.93	1520.07	85.02	84.46	1698.68	172.85	163.39
P1462_140_Zrn_A_1_MBD_4	1619.79	43.66	42.74	207Pb/235Uc	393	1.81	3.92955	0.20972	0.27656	0.01272	1619.79	43.66	42.74	1574.02	64.41	64.09	1679.78	78.29	76.30
P1462_140_Zrn_A_1_MBD_39	1619.98	41.90	41.05	207Pb/235Uc	461	1.43	3.93049	0.20135	0.28220	0.00862	1619.98	41.90	41.05	1602.44	43.40	43.26	1642.84	88.96	86.39
P1462_140_Zrn_A_1_MBD_73	1622.02	82.44	79.23	207Pb/235Uc	249	1.02	3.94038	0.39310	0.27114	0.01690	1622.02	82.44	79.23	1546.57	86.00	85.43	1721.34	150.96	143.69
P1462_140_Zrn_A_1_MBD_3	1649.93	57.93	56.33	207Pb/235Uc	337	0.61	4.07806	0.28564	0.27974	0.01360	1649.93	57.93	56.33	1590.04	68.71	68.35	1727.06	107.00	103.30
P1462_140_Zrn_A_1_MBD_25	1663.39	80.22	77.17	207Pb/235Uc	72	2.08	4.14586	0.39862	0.29034	0.02180	1663.39	80.22	77.17	1643.21	109.36	108.44	1688.97	126.45	121.32
P1462_140_Zrn_A_1_MBD_41	1676.62	40.53	39.74	207Pb/235Uc	205	1.42	4.21335	0.20605	0.30057	0.00914	1676.62	40.53	39.74	1694.15	45.37	45.21	1654.77	83.83	81.54
P1462_140_Zrn_A_1_MBD_1	1683.24	60.65	58.89	207Pb/235Uc	138	2.59	4.24741	0.30879	0.30742	0.01396	1683.24	60.65	58.89	1728.00	68.99	68.63	1627.89	120.74	116.07
P1462_140_Zrn_A_1_MBD_96	1687.34	52.90	51.55	207Pb/235Uc	433	3.91	4.26867	0.27093	0.28957	0.01158	1687.34	52.90	51.55	1639.36	58.02	57.76	1747.50	101.55	98.21
P1462_140_Zrn_A_1_MBD_67	1692.94	52.92	51.58	207Pb/235Uc	272	1.83	4.29782	0.27256	0.29454	0.01495	1692.94	52.92	51.58	1664.20	74.68	74.25	1728.72	82.08	79.88
P1462_140_Zrn_A_1_MBD_81	1714.63	40.83	40.70	206Pb/238U	193	1.42	4.48403	0.22428	0.30471	0.00825	1728.02	41.96	41.11	1714.63	40.83	40.70	1744.28	86.19	83.77
P1462_140_Zrn_A_1_MBD_14	1722.41	88.86	85.13	207Pb/235Uc	335	1.29	4.45379	0.46698	0.28892	0.02917	1722.41	88.86	85.13	1636.11	146.72	145.07	1828.94	238.21	220.52
P1462_140_Zrn_A_1_MBD_49	1736.62	42.48	41.61	207Pb/235Uc	295	1.08	4.53067	0.22896	0.30454	0.01051	1736.62	42.48	41.61	1713.77	52.04	51.83	1764.26	77.51	75.55
P1462_140_Zrn_A_1_MBD_82	1739.82	40.92	40.11	207Pb/235Uc	238	1.76	4.54815	0.22136	0.30048	0.00899	1739.82	40.92	40.11	1693.69	44.63	44.48	1795.74	82.33	80.12
P1462_140_Zrn_A_1_MBD_16	1742.83	48.94	47.79	207Pb/235Uc	116	2.00	4.56458	0.26500	0.30961	0.01517	1742.83	48.94	47.79	1738.80	74.91	74.47	1747.66	89.31	86.71
P1462_140_Zrn_A_1_MBD_21	1743.11	53.23	51.87	207Pb/235Uc	289	1.04	4.56613	0.28799	0.30897	0.01667	1743.11	53.23	51.87	1735.63	82.37	81.84	1752.10	76.15	74.25
P1462_140_Zrn_A_1_MBD_2	1759.68	58.18	56.56	207Pb/235Uc	125	1.92	4.65772	0.31956	0.30757	0.01625	1759.68	58.18	56.56	1728.74	80.36	79.86	1796.61	98.84	95.66
P1462_140_Zrn_A_1_MBD_24	1763.07	58.26	56.64	207Pb/235Uc	163	1.54	4.67662	0.32109	0.31560	0.01826	1763.07	58.26	56.64	1768.20	89.79	89.17	1756.99	106.86	103.16
P1462_140_Zrn_A_1_MBD_20	1768.85	62.76	60.88	207Pb/235Uc	183	1.15	4.70903	0.34749	0.31305	0.01929	1768.85	62.76	60.88	1755.71	95.06	94.36	1784.39	91.55	88.82
P1462_140_Zrn_A_1_MBD_54	1820.65	42.77	41.88	207Pb/235Uc	360	3.37	5.00786	0.25040	0.32462	0.01373	1820.65	42.77	41.88	1812.24	66.98	66.64	1830.29	63.92	62.57
P1462_140_Zrn_A_1_MBD_108	1865.90	40.58	39.79	207Pb/235Uc	302	1.30	5.28167	0.24858	0.33003	0.01105	1865.90	40.58	39.79	1838.51	53.69	53.46	1896.56	71.34	69.66
P1462_140_Zrn_A_1_MBD_35	1880.81	65.97	63.90	207Pb/235Uc	85	1.08	5.37456	0.40752	0.33129	0.01410	1880.81	65.97	63.90	1844.65	68.48	68.12	1920.99	127.64	122.36
P1462_140_Zrn_A_1_MBD_60	1893.79	41.90	41.76	206Pb/238U	103	1.43	5.78421	0.33380	0.34148	0.00871	1944.05	50.58	49.35	1893.79	41.90	41.76	1998.04	100.35	97.04
P1462_140_Zrn_A_1_MBD_44	1902.76	49.45	49.26	206Pb/238U	149	1.72	5.28983	0.30509	0.34335	0.01029	1867.22	49.86	48.66	1902.76	49.45	49.26	1827.90	100.39	97.10
P1462_140_Zrn_A_1_MBD_88	1909.23	41.19	40.37	207Pb/235Uc	190	2.45	5.55548	0.26327	0.33779	0.01184	1909.23	41.19	40.37	1876.05	57.17	56.92	1945.47	79.42	77.34
P1462_140_Zrn_A_1_MBD_62	1909.59	49.74	48.55	207Pb/235Uc	212	1.51	5.55780	0.31733	0.34494	0.01337	1909.59	49.74	48.55	1910.39	64.22	63.91	1908.71	84.56	82.21
P1462_140_Zrn_A_1_MBD_11	1919.66	30.94	30.48	207Pb/235Uc	345	2.58	5.62318	0.20030	0.34363	0.00890	1919.66	30.94	30.48	1904.11	42.78	42.63	1936.49	59.85	58.67
P1462_140_Zrn_A_1_MBD_91	1938.45	41.17	40.35	207Pb/235Uc	138	1.10	5.74692	0.27081	0.34855	0.01400	1938.45	41.17	40.35	1927.66	67.09	66.75	1950.01	66.18	64.73
P1462_140_Zrn_A_1_MBD_42	1947.74	36.79	36.14	207Pb/235Uc	376	1.44	5.80892	0.24451	0.34812	0.01117	1947.74	36.79	36.14	1925.61	53.53	53.31	1971.35	63.13	61.80
P1462_140_Zrn_A_1_MBD_34	1974.19	60.65	58.89	207Pb/235Uc	115	1.25	5.98863	0.41128	0.36005	0.01395	1974.19	60.65	58.89	1982.42	66.27	65.93	1965.58	110.56	106.56
P1462_140_Zrn_A_1_MBD_104	1999.96	40.41	39.62	207Pb/235Uc	160	1.68	6.16823	0.28247	0.36376	0.01425	1999.96	40.41	39.62	1999.97	67.53	67.17	1999.94	74.63	72.79
P1462_140_Zrn_A_1_MBD_83	2001.50	51.75	50.47	207Pb/235Uc	71	0.93	6.17911	0.36128	0.37197	0.01623	2001.50	51.75	50.47	2038.65	76.49	76.04	1963.36	91.65	88.89



**Table 2.** U–Pb age data from the Cretaceous Colombian back–arc basin (*continued*).

Sample GPS-568																			
Analysis name	Preferred age (Ma)	2–sigma	2 +sigma	Age type	[U] (ppm)	U/Th	207Pb/235U Ratio	2 sigma	206Pb/238U Ratio	2 sigma	207Pb/235Uc age (Ma)	2–sigma	2 +sigma	206Pb/238U age (Ma)	2–sigma	2 +sigma	207Pb/206Pb age (Ma)	2–sigma	2 +sigma
P1462_140_Zrn_A_1_MBD_51	2009.20	46.84	45.78	207Pb/235Uc	354	1.31	6.23377	0.32986	0.36206	0.01506	2009.20	46.84	45.78	1991.91	71.47	71.08	2027.02	70.27	68.63
P1462_140_Zrn_A_1_MBD_45	2026.77	47.67	46.58	207Pb/235Uc	131	4.17	6.36004	0.34154	0.36433	0.01540	2026.77	47.67	46.58	2002.66	72.97	72.56	2051.42	70.81	69.15
P1462_140_Zrn_A_1_MBD_7	2242.82	35.03	34.43	207Pb/235Uc	190	1.00	8.10515	0.31141	0.41650	0.01230	2242.82	35.03	34.43	2244.59	56.10	55.86	2241.20	59.09	57.92
P1462_140_Zrn_A_1_MBD_8	2578.54	108.72	103.19	207Pb/235Uc	40	0.79	11.67307	1.32121	0.31992	0.02050	2578.54	108.72	103.19	1789.33	100.53	99.75	3274.50	193.39	180.90
P1462_140_Zrn_A_1_MBD_75	3296.48	106.93	101.58	207Pb/235Uc	100	1.23	24.70123	2.63665	0.47287	0.03329	3296.48	106.93	101.58	2496.14	146.55	144.90	3827.21	151.62	143.71
Sample GPS-571																			
Analysis name	Preferred age (Ma)	2–sigma	2 +sigma	Age type	[U] (ppm)	U/Th	207Pb/235U Ratio	2 sigma	206Pb/238U Ratio	2 sigma	207Pb/235Uc age (Ma)	2–sigma	2 +sigma	206Pb/238U age (Ma)	2–sigma	2 +sigma	207Pb/206Pb age (Ma)	2–sigma	2 +sigma
P1462_142_Zrn_A_1_MBD_33	287.37	12.92	12.91	206Pb/238U	949	0.89	0.35216	0.02248	0.04559	0.00209	306.34	16.95	16.81	287.37	12.92	12.91	453.43	141.05	135.10
P1462_142_Zrn_A_1_MBD_96	375.16	23.10	23.06	206Pb/238U	60	1.18	0.47603	0.09737	0.05992	0.00379	395.35	68.11	65.90	375.16	23.10	23.06	515.20	485.24	421.18
P1462_142_Zrn_A_1_MBD_77	395.79	16.89	16.87	206Pb/238U	1143	1.50	0.49857	0.03367	0.06332	0.00278	410.73	22.95	22.69	395.79	16.89	16.87	495.59	134.69	129.24
P1462_142_Zrn_A_1_MBD_30	398.87	23.87	23.83	206Pb/238U	90	0.77	0.55942	0.09052	0.06383	0.00394	451.15	59.81	58.10	398.87	23.87	23.83	727.21	367.95	329.46
P1462_142_Zrn_A_1_MBD_102	413.15	24.90	24.85	206Pb/238U	1442	0.85	0.55337	0.04539	0.06619	0.00411	447.20	29.89	29.45	413.15	24.90	24.85	626.37	151.85	144.91
P1462_142_Zrn_A_1_MBD_90	420.59	16.60	16.58	206Pb/238U	642	0.84	0.51257	0.03119	0.06742	0.00275	420.18	21.05	20.83	420.59	16.60	16.58	417.92	128.26	123.33
P1462_142_Zrn_A_1_MBD_7	458.60	20.26	20.23	206Pb/238U	117	0.79	0.57315	0.06789	0.07373	0.00337	460.05	44.30	43.35	458.60	20.26	20.23	467.30	274.93	253.19
P1462_142_Zrn_A_1_MBD_74	461.63	20.34	20.30	206Pb/238U	202	1.62	0.58667	0.03529	0.07424	0.00339	468.74	22.71	22.46	461.63	20.34	20.30	503.72	137.18	131.54
P1462_142_Zrn_A_1_MBD_44	468.20	22.60	22.56	206Pb/238U	175	1.21	0.62791	0.06102	0.07533	0.00377	494.80	38.42	37.71	468.20	22.60	22.56	619.84	222.15	207.61
P1462_142_Zrn_A_1_MBD_24	490.25	15.54	15.52	206Pb/238U	651	2.28	0.62725	0.03481	0.07902	0.00260	494.38	21.84	21.60	490.25	15.54	15.52	513.55	118.61	114.36
P1462_142_Zrn_A_1_MBD_55	494.80	17.31	17.29	206Pb/238U	346	0.97	0.63664	0.05475	0.07978	0.00290	500.22	34.25	33.68	494.80	17.31	17.29	525.13	190.88	180.11
P1462_142_Zrn_A_1_MBD_36	504.10	18.28	18.25	206Pb/238U	253	1.56	0.64711	0.05061	0.08134	0.00306	506.70	31.44	30.96	504.10	18.28	18.25	518.44	174.09	165.09
P1462_142_Zrn_A_1_MBD_5	516.66	24.93	24.88	206Pb/238U	54	0.24	0.74043	0.10557	0.08345	0.00419	562.66	62.54	60.67	516.66	24.93	24.88	753.30	324.29	293.98
P1462_142_Zrn_A_1_MBD_18	527.70	24.99	24.94	206Pb/238U	121	0.72	0.66358	0.05636	0.08530	0.00420	516.80	34.69	34.11	527.70	24.99	24.94	468.91	196.79	185.40
P1462_142_Zrn_A_1_MBD_42	530.31	24.38	24.34	206Pb/238U	142	0.58	0.75540	0.08543	0.08574	0.00410	571.35	50.02	48.82	530.31	24.38	24.34	738.20	240.99	223.86
P1462_142_Zrn_A_1_MBD_25	532.43	28.86	28.79	206Pb/238U	58	1.55	0.78247	0.14322	0.08610	0.00486	586.89	83.27	79.99	532.43	28.86	28.79	803.55	404.07	357.93
P1462_142_Zrn_A_1_MBD_38	538.57	36.24	36.14	206Pb/238U	378	1.19	0.62589	0.11060	0.08714	0.00610	493.53	70.27	67.92	538.57	36.24	36.14	289.63	432.04	381.19
P1462_142_Zrn_A_1_MBD_4	538.91	21.11	21.07	206Pb/238U	164	1.50	0.66153	0.07205	0.08719	0.00356	515.55	44.51	43.56	538.91	21.11	21.07	413.30	253.57	235.03
P1462_142_Zrn_A_1_MBD_70	540.30	27.56	27.50	206Pb/238U	128	1.37	0.75293	0.09119	0.08743	0.00464	569.93	53.52	52.14	540.30	27.56	27.50	689.95	263.41	243.13
P1462_142_Zrn_A_1_MBD_22	560.49	17.98	17.95	206Pb/238U	319	1.07	0.71411	0.05571	0.09084	0.00304	547.18	33.27	32.74	560.49	17.98	17.95	492.15	174.60	165.56
P1462_142_Zrn_A_1_MBD_68	569.90	24.60	24.55	206Pb/238U	477	4.97	0.79213	0.05824	0.09243	0.00416	592.38	33.27	32.73	569.90	24.60	24.55	679.44	146.69	140.18
P1462_142_Zrn_A_1_MBD_72	575.65	26.84	26.78	206Pb/238U	198	1.65	0.73484	0.07328	0.09341	0.00455	559.39	43.35	42.44	575.65	26.84	26.78	493.79	219.14	205.08
P1462_142_Zrn_A_1_MBD_59	583.31	23.94	23.90	206Pb/238U	158	0.73	0.79609	0.06354	0.09471	0.00406	594.62	36.25	35.61	583.31	23.94	23.90	638.01	178.05	168.58
P1462_142_Zrn_A_1_MBD_35	589.10	29.54	29.47	206Pb/238U	113	1.10	0.73141	0.07436	0.09569	0.00501	557.38	44.08	43.15	589.10	29.54	29.47	429.85	236.47	220.25
P1462_142_Zrn_A_1_MBD_17	598.26	22.55	22.51	206Pb/238U	199	0.56	0.82251	0.07153	0.09725	0.00383	609.45	40.25	39.46	598.26	22.55	22.51	651.25	187.44	176.96
P1462_142_Zrn_A_1_MBD_10	605.10	18.27	18.24	206Pb/238U	633	1.29	0.79857	0.04588	0.09841	0.00311	596.02	26.07	25.74	605.10	18.27	18.24	561.63	122.64	118.09
P1462_142_Zrn_A_1_MBD_62	610.04	28.19	28.13	206Pb/238U	126	1.33	0.83177	0.06313	0.09926	0.00480	614.59	35.30	34.70	610.04	28.19	28.13	631.40	150.40	143.59
P1462_142_Zrn_A_1_MBD_0	617.88	38.61	38.50	206Pb/238U	52	1.10	0.88876	0.14619	0.10059	0.00658	645.70	80.15	77.11	617.88	38.61	38.50	744.25	356.93	320.57
P1462_142_Zrn_A_1_MBD_82	630.96	26.09	26.04	206Pb/238U	104	1.26	0.82544	0.11066	0.10283	0.00446	611.08	62.51	60.64	630.96	26.09	26.04	538.07	300.32	274.46
P1462_142_Zrn_A_1_MBD_78	760.98	50.89	50.69	206Pb/238U	61	1.54	1.24302	0.13363	0.12530	0.00887	820.25	61.41	59.61	760.98	50.89	50.69	984.56	213.42	199.69
P1462_142_Zrn_A_1_MBD_8	766.63	27.83	27.77	206Pb/238U	440	2.25	1.24372	0.08144	0.12628	0.00486	820.57	37.19	36.52	766.63	27.83	27.77	969.70	128.56	123.45
P1462_142_Zrn_A_1_MBD_19	821.88	28.93	28.86	206Pb/238U	295	1.28	1.22751	0.06567	0.13598	0.00509	813.20	30.16	29.72	821.88	28.93	28.86	789.53	111.40	107.58
P1462_142_Zrn_A_1_MBD_56	853.62	30.93	30.86	206Pb/238U	94	2.34	1.34486	0.13878	0.14158	0.00547	865.34	61.00	59.22	853.62	30.93	30.86	895.47	216.42	202.38

**Table 2.** U–Pb age data from the Cretaceous Colombian back–arc basin (*continued*).

Analysis name	Preferred age (Ma)	Sample GPS–571																	
		2 –sigma	2 +sigma	Age type	[U] (ppm)	U/Th	207Pb/235U Ratio	2 sigma	206Pb/238U Ratio	2 sigma	207Pb/235Uc age (Ma)	2 –sigma	2 +sigma	206Pb/238U age (Ma)	2 –sigma	2 +sigma	207Pb/206Pb age (Ma)	2 –sigma	2 +sigma
P1462_142_Zrn_A_1_MBD_47	855.68	31.97	31.89	206Pb/238U	240	1.90	1.38864	0.12255	0.14195	0.00566	884.12	52.78	51.44	855.68	31.97	31.89	955.98	182.45	172.34
P1462_142_Zrn_A_1_MBD_103	859.06	38.25	38.14	206Pb/238U	100	1.34	1.37783	0.15256	0.14255	0.00677	879.51	66.22	64.13	859.06	38.25	38.14	931.35	240.63	223.37
P1462_142_Zrn_A_1_MBD_21	869.91	38.62	38.51	206Pb/238U	65	1.95	1.48801	0.17756	0.14447	0.00685	925.50	73.79	71.20	869.91	38.62	38.51	1060.42	243.23	225.48
P1462_142_Zrn_A_1_MBD_37	872.49	29.37	29.30	206Pb/238U	154	2.39	1.43570	0.14052	0.14493	0.00521	903.93	59.44	57.75	872.49	29.37	29.30	981.56	206.90	193.97
P1462_142_Zrn_A_1_MBD_86	875.11	35.67	35.57	206Pb/238U	255	3.78	1.41549	0.09203	0.14540	0.00633	895.47	39.06	38.32	875.11	35.67	35.57	946.07	120.06	115.60
P1462_142_Zrn_A_1_MBD_58	875.92	39.85	39.73	206Pb/238U	152	2.13	1.32395	0.09619	0.14554	0.00707	856.24	42.47	41.60	875.92	39.85	39.73	805.60	153.85	146.66
P1462_142_Zrn_A_1_MBD_23	879.11	47.53	47.35	206Pb/238U	44	0.97	1.42003	0.17199	0.14611	0.00843	897.38	73.48	70.91	879.11	47.53	47.35	942.65	242.90	225.31
P1462_142_Zrn_A_1_MBD_93	879.88	29.29	29.22	206Pb/238U	373	5.78	1.35273	0.11479	0.14625	0.00520	868.74	50.16	48.95	879.88	29.29	29.22	840.42	178.94	169.27
P1462_142_Zrn_A_1_MBD_106	890.27	35.59	35.49	206Pb/238U	203	2.69	1.40621	0.09590	0.14809	0.00633	891.56	40.88	40.07	890.27	35.59	35.49	894.76	134.22	128.68
P1462_142_Zrn_A_1_MBD_87	890.41	35.13	35.03	206Pb/238U	201	3.36	1.42637	0.09464	0.14812	0.00625	900.03	40.00	39.23	890.41	35.13	35.03	923.74	124.60	119.81
P1462_142_Zrn_A_1_MBD_69	891.75	44.91	44.76	206Pb/238U	184	1.89	1.37824	0.12604	0.14836	0.00799	879.69	54.54	53.11	891.75	44.91	44.76	849.45	184.10	173.87
P1462_142_Zrn_A_1_MBD_97	902.94	41.41	41.28	206Pb/238U	198	2.12	1.45731	0.11395	0.15035	0.00738	912.90	47.64	46.55	902.94	41.41	41.28	937.05	145.84	139.31
P1462_142_Zrn_A_1_MBD_32	905.45	33.25	33.17	206Pb/238U	215	3.72	1.36035	0.09262	0.15080	0.00593	872.02	40.24	39.46	905.45	33.25	33.17	788.05	144.65	138.28
P1462_142_Zrn_A_1_MBD_71	905.95	68.27	67.91	206Pb/238U	104	1.59	1.39107	0.15810	0.15089	0.01216	885.15	68.27	66.05	905.95	68.27	67.91	833.52	199.59	187.63
P1462_142_Zrn_A_1_MBD_84	907.54	33.00	32.92	206Pb/238U	332	2.11	1.52444	0.08762	0.15117	0.00589	940.26	35.55	34.94	907.54	33.00	32.92	1017.72	110.65	106.83
P1462_142_Zrn_A_1_MBD_28	910.11	31.77	31.28	207Pb/235Uc	593	2.30	1.45057	0.07608	0.15196	0.00610	910.11	31.77	31.28	911.94	34.21	34.12	905.66	100.09	96.97
P1462_142_Zrn_A_1_MBD_98	916.74	58.58	58.31	206Pb/238U	34	1.72	1.37656	0.19967	0.15282	0.01045	878.97	87.15	83.57	916.74	58.58	58.31	785.03	307.61	280.16
P1462_142_Zrn_A_1_MBD_94	919.91	35.23	35.14	206Pb/238U	245	2.43	1.47197	0.10429	0.15338	0.00630	918.94	43.30	42.39	919.91	35.23	35.14	916.62	137.71	131.88
P1462_142_Zrn_A_1_MBD_64	927.33	30.69	30.62	206Pb/238U	327	4.92	1.55114	0.08134	0.15471	0.00549	950.95	32.63	32.12	927.33	30.69	30.62	1006.01	105.62	102.14
P1462_142_Zrn_A_1_MBD_13	935.90	39.06	38.94	206Pb/238U	224	2.68	1.51279	0.10782	0.15625	0.00699	935.57	44.04	43.11	935.90	39.06	38.94	934.79	131.55	126.22
P1462_142_Zrn_A_1_MBD_91	940.00	33.57	33.49	206Pb/238U	510	2.99	1.52668	0.08427	0.15699	0.00602	941.17	34.15	33.59	940.00	33.57	33.49	943.89	106.84	103.29
P1462_142_Zrn_A_1_MBD_2	944.14	31.09	31.02	206Pb/238U	402	5.03	1.51080	0.09403	0.15773	0.00558	934.76	38.39	37.67	944.14	31.09	31.02	912.72	125.03	120.21
P1462_142_Zrn_A_1_MBD_79	947.32	43.32	43.17	206Pb/238U	84	3.04	1.54703	0.17484	0.15830	0.00777	949.31	70.92	68.53	947.32	43.32	43.17	953.92	239.20	222.11
P1462_142_Zrn_A_1_MBD_76	954.90	34.02	33.46	207Pb/235Uc	412	1.66	1.56110	0.08510	0.15383	0.00651	954.90	34.02	33.46	922.38	36.45	36.35	1030.61	96.19	93.29
P1462_142_Zrn_A_1_MBD_50	956.11	33.83	33.27	207Pb/235Uc	404	3.60	1.56415	0.08471	0.15794	0.00641	956.11	33.83	33.27	945.32	35.72	35.62	981.03	118.58	114.22
P1462_142_Zrn_A_1_MBD_16	961.38	49.05	48.87	206Pb/238U	56	0.95	1.54680	0.13395	0.16083	0.00882	949.22	54.12	52.71	961.38	49.05	48.87	921.12	170.71	161.84
P1462_142_Zrn_A_1_MBD_3	962.13	28.74	28.68	206Pb/238U	382	2.56	1.60109	0.07620	0.16096	0.00517	970.64	29.97	29.53	962.13	28.74	28.68	989.95	95.21	92.38
P1462_142_Zrn_A_1_MBD_60	962.21	40.36	39.58	207Pb/235Uc	203	3.80	1.57960	0.10153	0.15903	0.00761	962.21	40.36	39.58	951.38	42.41	42.27	987.05	123.17	118.47
P1462_142_Zrn_A_1_MBD_95	963.30	41.14	41.01	206Pb/238U	149	2.65	1.59053	0.16253	0.16117	0.00740	966.50	64.73	62.73	963.30	41.14	41.01	973.80	206.58	193.69
P1462_142_Zrn_A_1_MBD_105	972.25	48.88	47.73	207Pb/235Uc	188	3.48	1.60524	0.12391	0.15874	0.00855	972.25	48.88	47.73	949.76	47.66	47.48	1023.44	137.49	131.64
P1462_142_Zrn_A_1_MBD_109	972.57	46.12	45.95	206Pb/238U	81	1.51	1.56543	0.16757	0.16285	0.00830	956.62	67.43	65.26	972.57	46.12	45.95	920.11	220.66	206.07
P1462_142_Zrn_A_1_MBD_15	973.95	37.77	37.08	207Pb/235Uc	330	1.71	1.60960	0.09617	0.16399	0.00708	973.95	37.77	37.08	978.93	39.25	39.13	962.73	107.62	104.02
P1462_142_Zrn_A_1_MBD_61	977.69	40.93	40.13	207Pb/235Uc	400	2.66	1.61923	0.10453	0.16186	0.00872	977.69	40.93	40.13	967.10	48.49	48.30	1001.56	138.05	132.17
P1462_142_Zrn_A_1_MBD_101	979.80	41.97	41.12	207Pb/235Uc	204	5.77	1.62467	0.10738	0.16009	0.00861	979.80	41.97	41.12	957.29	47.93	47.75	1030.59	138.67	132.72
P1462_142_Zrn_A_1_MBD_14	989.53	50.01	49.81	206Pb/238U	127	4.14	1.60393	0.12822	0.16591	0.00903	971.75	50.63	49.39	989.53	50.01	49.81	931.74	142.61	136.36
P1462_142_Zrn_A_1_MBD_41	989.87	51.95	51.75	206Pb/238U	73	2.63	1.54003	0.14815	0.16597	0.00938	946.52	60.10	58.38	989.87	51.95	51.75	846.98	193.42	182.16
P1462_142_Zrn_A_1_MBD_107	994.64	51.31	51.11	206Pb/238U	63	3.60	1.68035	0.19108	0.16683	0.00927	1001.11	73.71	71.12	994.64	51.31	51.11	1015.32	225.15	209.90
P1462_142_Zrn_A_1_MBD_52	998.80	37.61	37.50	206Pb/238U	243	2.43	1.63639	0.10634	0.16759	0.00680	984.32	41.37	40.55	998.80	37.61	37.50	952.19	124.38	119.59
P1462_142_Zrn_A_1_MBD_88	1022.28	46.98	46.81	206Pb/238U	105	2.15	1.65610	0.12389	0.17185	0.00852	991.89	47.92	46.82	1022.28	46.98	46.81	925.26	153.56	146.34
P1462_142_Zrn_A_1_MBD_89	1073.68	33.89	33.80	206Pb/238U	974	2.55	1.98495	0.10301	0.18123	0.00620	1110.41	35.35	34.74	1073.68	33.89	33.80	1183.04	98.82	95.74
P1462_142_Zrn_A_1_MBD_108	1077.03	46.81	46.64	206Pb/238U	66	2.20	1.85349	0.18850	0.18184	0.00857	1064.67	68.21	65.99	1077.03	46.81	46.64	1039.43	211.75	198.18
P1462_142_Zrn_A_1_MBD_104	1095.92	41.53	41.39	206Pb/238U	119	2.04	1.95921	0.13269	0.18531	0.00762	1101.61	46.05	45.03	1095.92	41.53	41.39	1112.88	135.62	129.91

**Table 2.** U–Pb age data from the Cretaceous Colombian back–arc basin (*continued*).

Sample GPS-571																			
Analysis name	Preferred age (Ma)	2–sigma	2 +sigma	Age type	[U] (ppm)	U/Th	207Pb/235U Ratio	2 sigma	206Pb/238U Ratio	2 sigma	207Pb/235Uc age (Ma)	2–sigma	2 +sigma	206Pb/238U age (Ma)	2–sigma	2 +sigma	207Pb/206Pb age (Ma)	2–sigma	2 +sigma
P1462_142_Zrn_A_1_MBD_100	1112.55	70.58	68.21	207Pb/235Uc	303	1.39	1.99126	0.20437	0.18141	0.01522	1112.55	70.58	68.21	1074.68	83.31	82.78	1187.31	161.54	153.46
P1462_142_Zrn_A_1_MBD_12	1136.41	46.98	46.82	206Pb/238U	182	0.94	1.97914	0.15493	0.19278	0.00868	1108.43	53.51	52.13	1136.41	46.98	46.82	1053.94	152.50	145.33
P1462_142_Zrn_A_1_MBD_1	1196.80	41.92	41.79	206Pb/238U	200	2.36	2.24436	0.14429	0.20400	0.00782	1195.02	45.67	44.66	1196.80	41.92	41.79	1191.81	128.82	123.63
P1462_142_Zrn_A_1_MBD_34	1213.04	57.01	56.76	206Pb/238U	67	1.91	2.23844	0.22420	0.20704	0.01065	1193.17	71.54	69.11	1213.04	57.01	56.76	1157.34	193.00	181.60
P1462_142_Zrn_A_1_MBD_65	1241.64	42.52	42.38	206Pb/238U	140	2.36	2.46073	0.15898	0.21241	0.00798	1260.58	47.19	46.12	1241.64	42.52	42.38	1293.05	121.30	116.67
P1462_142_Zrn_A_1_MBD_51	1344.97	74.62	71.97	207Pb/235Uc	596	2.26	2.76065	0.27135	0.21210	0.01379	1344.97	74.62	71.97	1239.97	73.54	73.13	1516.16	180.75	170.52
P1462_142_Zrn_A_1_MBD_73	1353.72	59.94	59.67	206Pb/238U	353	1.13	3.08881	0.26907	0.23367	0.01144	1429.92	67.94	65.74	1353.72	59.94	59.67	1545.22	166.42	157.70
P1462_142_Zrn_A_1_MBD_6	1370.95	85.84	85.27	206Pb/238U	18	0.94	2.73142	0.48673	0.23697	0.01642	1337.05	136.96	128.31	1370.95	85.84	85.27	1283.17	360.49	322.39
P1462_142_Zrn_A_1_MBD_66	1403.22	125.16	117.89	207Pb/235Uc	13	1.78	2.98269	0.47611	0.24410	0.03227	1403.22	125.16	117.89	1408.00	168.32	166.15	1395.96	228.83	212.78
P1462_142_Zrn_A_1_MBD_11	1407.62	45.56	44.56	207Pb/235Uc	315	1.20	3.00001	0.17748	0.23986	0.01049	1407.62	45.56	44.56	1385.99	54.68	54.45	1440.53	95.84	92.89
P1462_142_Zrn_A_1_MBD_83	1408.77	48.40	47.27	207Pb/235Uc	296	1.37	3.00455	0.18862	0.23755	0.01122	1408.77	48.40	47.27	1373.95	58.60	58.34	1461.85	110.94	107.01
P1462_142_Zrn_A_1_MBD_85	1408.92	43.97	43.04	207Pb/235Uc	291	1.35	3.00514	0.17157	0.23759	0.00937	1408.92	43.97	43.04	1374.18	48.89	48.71	1461.87	98.00	94.92
P1462_142_Zrn_A_1_MBD_26	1420.58	72.62	72.21	206Pb/238U	117	2.30	3.09270	0.29576	0.24653	0.01400	1430.88	74.73	72.08	1420.58	72.62	72.21	1446.24	182.13	171.79
P1462_142_Zrn_A_1_MBD_43	1475.83	55.78	54.29	207Pb/235Uc	214	1.87	3.27796	0.23183	0.25700	0.01471	1475.83	55.78	54.29	1474.47	75.66	75.22	1477.79	109.61	105.77
P1462_142_Zrn_A_1_MBD_31	1490.65	74.08	71.47	207Pb/235Uc	383	0.66	3.34083	0.31099	0.25833	0.01945	1490.65	74.08	71.47	1481.31	100.01	99.24	1503.96	129.22	123.91
P1462_142_Zrn_A_1_MBD_39	1505.97	60.19	58.45	207Pb/235Uc	95	2.09	3.40682	0.25738	0.27639	0.01705	1505.97	60.19	58.45	1573.15	86.40	85.82	1412.70	112.03	108.04
P1462_142_Zrn_A_1_MBD_29	1515.11	49.03	47.87	207Pb/235Uc	221	1.56	3.44669	0.21214	0.25945	0.01121	1515.11	49.03	47.87	1487.03	57.52	57.27	1554.59	102.19	98.83
P1462_142_Zrn_A_1_MBD_67	1523.77	54.09	52.69	207Pb/235Uc	100	1.77	3.48474	0.23575	0.25576	0.01057	1523.77	54.09	52.69	1468.10	54.39	54.16	1601.95	122.08	117.31
P1462_142_Zrn_A_1_MBD_99	1537.59	59.07	57.40	207Pb/235Uc	115	1.18	3.54622	0.26068	0.25674	0.01321	1537.59	59.07	57.40	1473.15	67.91	67.56	1627.38	127.44	122.24
P1462_142_Zrn_A_1_MBD_9	1565.98	63.16	61.26	207Pb/235Uc	145	1.81	3.67513	0.28635	0.27423	0.01595	1565.98	63.16	61.26	1562.24	80.97	80.46	1571.04	132.76	127.15
P1462_142_Zrn_A_1_MBD_53	1703.22	44.56	43.60	207Pb/235Uc	144	4.19	4.35172	0.23231	0.29355	0.01206	1703.22	44.56	43.60	1659.25	60.26	59.98	1757.75	92.63	89.84
P1462_142_Zrn_A_1_MBD_57	1747.76	90.15	86.32	207Pb/235Uc	45	2.44	4.59168	0.48562	0.31709	0.02333	1747.76	90.15	86.32	1775.52	114.71	113.70	1714.71	167.73	158.81
P1462_142_Zrn_A_1_MBD_63	1794.86	70.43	68.07	207Pb/235Uc	48	1.44	4.85716	0.39929	0.30674	0.01610	1794.86	70.43	68.07	1724.63	79.66	79.17	1877.47	141.31	134.88
P1462_142_Zrn_A_1_MBD_27	1802.75	54.98	53.53	207Pb/235Uc	393	1.50	4.90289	0.31536	0.31812	0.01707	1802.75	54.98	53.53	1780.52	83.74	83.20	1828.56	93.82	90.94
P1462_142_Zrn_A_1_MBD_46	1847.48	49.43	48.26	207Pb/235Uc	340	2.15	5.16871	0.29668	0.32866	0.01383	1847.48	49.43	48.26	1831.89	67.30	66.95	1865.08	96.01	92.99
P1462_142_Zrn_A_1_MBD_80	1902.05	59.74	58.03	207Pb/235Uc	286	1.36	5.50931	0.37738	0.33312	0.01671	1902.05	59.74	58.03	1853.50	81.04	80.53	1955.44	113.40	109.20
P1462_142_Zrn_A_1_MBD_45	1933.66	41.77	40.93	207Pb/235Uc	398	1.05	5.71516	0.27342	0.34184	0.01127	1933.66	41.77	40.93	1895.50	54.24	54.01	1974.81	82.94	80.67
P1462_142_Zrn_A_1_MBD_92	1983.70	54.79	53.35	207Pb/235Uc	316	1.89	6.05438	0.37554	0.35155	0.01716	1983.70	54.79	53.35	1942.01	82.10	81.58	2027.44	91.19	88.45
P1462_142_Zrn_A_1_MBD_49	2075.38	56.35	54.83	207Pb/235Uc	232	1.57	6.72095	0.42258	0.39674	0.01796	2075.38	56.35	54.83	2154.01	83.15	82.62	1998.22	105.66	102.00

  

Sample GPS-572																			
Analysis name	Preferred age (Ma)	2–sigma	2 +sigma	Age type	[U] (ppm)	U/Th	207Pb/235U Ratio	2 sigma	206Pb/238U Ratio	2 sigma	207Pb/235Uc age (Ma)	2–sigma	2 +sigma	206Pb/238U age (Ma)	2–sigma	2 +sigma	207Pb/206Pb age (Ma)	2–sigma	2 +sigma
P1462_143_Zrn_A_1_MBD_88	157.69	8.15	8.15	206Pb/238U	558	0.86	0.16894	0.01291	0.02476	0.00130	158.50	11.25	11.18	157.69	8.15	8.15	170.68	177.84	168.66
P1462_143_Zrn_A_1_MBD_72	187.47	9.02	9.02	206Pb/238U	238	0.75	0.19035	0.03606	0.02951	0.00144	176.92	31.00	30.53	187.47	9.02	9.02	38.28	76.56	424.22
P1462_143_Zrn_A_1_MBD_77	190.12	8.76	8.75	206Pb/238U	328	0.87	0.21977	0.03061	0.02993	0.00140	201.72	25.64	25.32	190.12	8.76	8.75	339.60	327.25	297.14
P1462_143_Zrn_A_1_MBD_29	191.09	9.34	9.33	206Pb/238U	419	1.19	0.21036	0.01931	0.03009	0.00149	193.86	16.26	16.13	191.09	9.34	9.33	227.73	228.89	213.85
P1462_143_Zrn_A_1_MBD_67	194.20	14.14	14.12	206Pb/238U	107	0.78	0.21729	0.04573	0.03058	0.00226	199.65	38.51	37.79	194.20	14.14	14.12	264.54	523.65	450.85
P1462_143_Zrn_A_1_MBD_38	194.71	7.60	7.59	206Pb/238U	250	0.70	0.21936	0.02711	0.03066	0.00121	201.38	22.70	22.45	194.71	7.60	7.59	280.29	296.35	271.53
P1462_143_Zrn_A_1_MBD_28	196.64	6.46	6.46	206Pb/238U	371	0.68	0.22722	0.01917	0.03097	0.00103	207.90	15.92	15.80	196.64	6.46	6.46	337.57	199.65	188.03
P1462_143_Zrn_A_1_MBD_4	201.16	9.07	9.06	206Pb/238U	336	1.09	0.21423	0.02103	0.03170	0.00145	197.09	17.66	17.51	201.16	9.07	9.06	148.75	232.76	217.30
P1462_143_Zrn_A_1_MBD_31	201.95	8.72	8.72	206Pb/238U	246	1.67	0.22246	0.02505	0.03182	0.00140	203.95	20.91	20.70	201.95	8.72	8.72	227.14	276.57	254.91

**Table 2.** U–Pb age data from the Cretaceous Colombian back–arc basin (*continued*).

Analysis name	Preferred age (Ma)	Sample GPS–572																	
		2 –sigma	2 +sigma	Age type	[U] (ppm)	U/Th	207Pb/235U Ratio	2 sigma	206Pb/238U Ratio	2 sigma	207Pb/235Uc age (Ma)	2 –sigma	2 +sigma	206Pb/238U age (Ma)	2 –sigma	2 +sigma	207Pb/206Pb age (Ma)	2 –sigma	2 +sigma
P1462_143_Zrn_A_1_MBD_69	204.43	9.12	9.12	206Pb/238U	238	1.28	0.21550	0.03678	0.03222	0.00146	198.16	30.96	30.49	204.43	9.12	9.12	124.11	248.22	378.01
P1462_143_Zrn_A_1_MBD_66	213.15	11.58	11.57	206Pb/238U	329	0.99	0.24773	0.01869	0.03362	0.00186	224.73	15.27	15.16	213.15	11.58	11.57	347.76	170.58	162.02
P1462_143_Zrn_A_1_MBD_79	218.45	11.33	11.32	206Pb/238U	138	0.95	0.25330	0.04631	0.03447	0.00182	229.25	37.87	37.18	218.45	11.33	11.32	341.48	448.85	394.05
P1462_143_Zrn_A_1_MBD_97	220.81	13.73	13.72	206Pb/238U	133	0.74	0.24219	0.03770	0.03485	0.00220	220.21	31.05	30.58	220.81	13.73	13.72	213.77	387.68	346.43
P1462_143_Zrn_A_1_MBD_34	269.37	8.61	8.61	206Pb/238U	981	127.28	0.31085	0.02250	0.04267	0.00139	274.84	17.50	17.35	269.37	8.61	8.61	321.71	167.36	159.13
P1462_143_Zrn_A_1_MBD_10	366.27	14.13	14.12	206Pb/238U	689	2.00	0.42060	0.02883	0.05846	0.00232	356.48	20.71	20.50	366.27	14.13	14.12	293.20	150.91	144.19
P1462_143_Zrn_A_1_MBD_20	396.17	27.99	27.93	206Pb/238U	646	1.21	0.52068	0.07585	0.06338	0.00461	425.61	51.29	50.02	396.17	27.99	27.93	588.36	312.44	284.47
P1462_143_Zrn_A_1_MBD_24	404.05	22.25	22.21	206Pb/238U	459	2.36	0.49255	0.04204	0.06468	0.00367	406.65	28.80	28.40	404.05	22.25	22.21	421.42	158.90	151.41
P1462_143_Zrn_A_1_MBD_13	406.63	15.61	15.59	206Pb/238U	503	3.91	0.50676	0.03157	0.06511	0.00258	416.27	21.39	21.16	406.63	15.61	15.59	470.04	138.56	132.81
P1462_143_Zrn_A_1_MBD_16	408.20	14.91	14.89	206Pb/238U	401	1.16	0.51015	0.02936	0.06537	0.00246	418.55	19.84	19.65	408.20	14.91	14.89	475.97	121.86	117.39
P1462_143_Zrn_A_1_MBD_25	410.43	14.81	14.80	206Pb/238U	432	0.88	0.48814	0.02953	0.06574	0.00245	403.64	20.25	20.05	410.43	14.81	14.80	364.96	135.60	130.12
P1462_143_Zrn_A_1_MBD_0	414.22	17.07	17.05	206Pb/238U	577	1.51	0.49294	0.03620	0.06636	0.00282	406.92	24.77	24.47	414.22	17.07	17.05	365.69	164.85	156.83
P1462_143_Zrn_A_1_MBD_55	414.64	23.00	22.96	206Pb/238U	294	2.84	0.53041	0.05344	0.06644	0.00380	432.08	35.77	35.15	414.64	23.00	22.96	526.13	199.81	188.04
P1462_143_Zrn_A_1_MBD_68	415.90	32.61	32.53	206Pb/238U	847	4.74	0.53204	0.05739	0.06664	0.00539	433.16	38.40	37.68	415.90	32.61	32.53	526.01	196.58	185.18
P1462_143_Zrn_A_1_MBD_64	420.59	13.99	13.97	206Pb/238U	436	8.68	0.52312	0.03581	0.06742	0.00231	427.24	24.02	23.74	420.59	13.99	13.97	463.24	149.54	142.88
P1462_143_Zrn_A_1_MBD_11	421.01	17.49	17.47	206Pb/238U	163	1.17	0.53316	0.07100	0.06749	0.00289	433.90	47.57	46.48	421.01	17.49	17.47	502.94	305.70	279.00
P1462_143_Zrn_A_1_MBD_2	422.96	13.06	13.05	206Pb/238U	1697	4.65	0.50028	0.02813	0.06781	0.00216	411.89	19.13	18.95	422.96	13.06	13.05	350.30	125.08	120.42
P1462_143_Zrn_A_1_MBD_61	425.66	20.88	20.85	206Pb/238U	495	1.15	0.50785	0.03387	0.06826	0.00346	417.00	22.93	22.68	425.66	20.88	20.85	369.38	133.79	128.46
P1462_143_Zrn_A_1_MBD_76	425.85	12.73	12.71	206Pb/238U	406	1.75	0.55604	0.04309	0.06829	0.00211	448.95	28.32	27.93	425.85	12.73	12.71	569.07	168.95	160.44
P1462_143_Zrn_A_1_MBD_101	427.15	11.78	11.77	206Pb/238U	1356	0.99	0.52107	0.02577	0.06851	0.00195	425.87	17.27	17.13	427.15	11.78	11.77	418.95	111.20	107.48
P1462_143_Zrn_A_1_MBD_83	427.56	12.14	12.13	206Pb/238U	1046	1.33	0.54170	0.02722	0.06857	0.00201	439.54	18.00	17.85	427.56	12.14	12.13	502.77	110.57	106.87
P1462_143_Zrn_A_1_MBD_5	433.02	18.21	18.19	206Pb/238U	444	1.60	0.53478	0.04250	0.06948	0.00302	434.98	28.31	27.92	433.02	18.21	18.19	445.37	166.78	158.54
P1462_143_Zrn_A_1_MBD_59	435.72	12.30	12.29	206Pb/238U	608	0.55	0.56278	0.03325	0.06993	0.00204	453.33	21.72	21.49	435.72	12.30	12.29	543.63	129.43	124.38
P1462_143_Zrn_A_1_MBD_107	435.92	17.76	17.74	206Pb/238U	366	0.78	0.53094	0.03922	0.06996	0.00295	432.44	26.18	25.85	435.92	17.76	17.74	413.93	177.09	167.84
P1462_143_Zrn_A_1_MBD_41	436.64	18.67	18.64	206Pb/238U	119	1.64	0.56884	0.08064	0.07008	0.00310	457.26	52.87	51.53	436.64	18.67	18.64	562.26	322.24	292.62
P1462_143_Zrn_A_1_MBD_93	442.92	11.60	11.59	206Pb/238U	426	1.18	0.56014	0.03582	0.07112	0.00193	451.62	23.45	23.18	442.92	11.60	11.59	496.16	145.77	139.41
P1462_143_Zrn_A_1_MBD_26	443.95	20.99	20.96	206Pb/238U	408	1.38	0.56690	0.04209	0.07130	0.00349	456.01	27.46	27.09	443.95	20.99	20.96	517.23	145.24	138.93
P1462_143_Zrn_A_1_MBD_60	449.54	20.54	20.50	206Pb/238U	83	1.14	0.58900	0.08341	0.07222	0.00341	470.23	54.01	52.61	449.54	20.54	20.50	572.50	320.91	291.50
P1462_143_Zrn_A_1_MBD_56	450.06	15.52	15.50	206Pb/238U	570	1.00	0.56582	0.03662	0.07231	0.00258	455.31	23.89	23.61	450.06	15.52	15.50	481.89	143.93	137.74
P1462_143_Zrn_A_1_MBD_17	450.14	15.40	15.38	206Pb/238U	747	5.09	0.54399	0.03094	0.07232	0.00256	441.05	20.45	20.25	450.14	15.40	15.38	393.90	120.97	116.59
P1462_143_Zrn_A_1_MBD_85	458.75	18.43	18.40	206Pb/238U	268	1.27	0.57319	0.04270	0.07376	0.00307	460.07	27.75	27.37	458.75	18.43	18.40	466.67	166.85	158.59
P1462_143_Zrn_A_1_MBD_92	459.51	15.07	15.05	206Pb/238U	463	1.09	0.58528	0.03684	0.07388	0.00251	467.85	23.73	23.46	459.51	15.07	15.05	509.00	132.95	127.64
P1462_143_Zrn_A_1_MBD_90	461.11	22.69	22.65	206Pb/238U	207	0.73	0.60219	0.07273	0.07415	0.00378	478.62	46.62	45.58	461.11	22.69	22.65	563.45	279.53	256.96
P1462_143_Zrn_A_1_MBD_12	471.93	19.75	19.72	206Pb/238U	354	3.00	0.57251	0.04968	0.07595	0.00329	459.64	32.34	31.83	471.93	19.75	19.72	398.67	185.63	175.50
P1462_143_Zrn_A_1_MBD_96	539.08	40.59	40.47	206Pb/238U	224	2.71	0.90366	0.34573	0.08722	0.00684	653.68	193.32	176.51	539.08	40.59	40.47	1072.30	896.14	694.01
P1462_143_Zrn_A_1_MBD_23	546.55	33.18	33.10	206Pb/238U	413	2.26	0.70653	0.09542	0.08848	0.00560	542.68	57.59	56.00	546.55	33.18	33.10	526.47	288.61	264.67
P1462_143_Zrn_A_1_MBD_46	580.41	22.68	22.64	206Pb/238U	299	8.06	0.77691	0.07382	0.09421	0.00385	583.72	42.63	41.75	580.41	22.68	22.64	596.60	205.18	192.73
P1462_143_Zrn_A_1_MBD_39	603.73	21.00	20.97	206Pb/238U	311	1.67	0.83052	0.05526	0.09818	0.00357	613.90	30.89	30.42	603.73	21.00	20.97	651.60	136.99	131.31
P1462_143_Zrn_A_1_MBD_108	615.99	15.58	15.56	206Pb/238U	506	1.93	0.85333	0.04666	0.10027	0.00266	626.47	25.73	25.40	615.99	15.58	15.56	664.49	116.53	112.39
P1462_143_Zrn_A_1_MBD_27	717.75	32.09	32.01	206Pb/238U	514	6.91	1.15138	0.10293	0.11778	0.00556	777.89	49.17	48.01	717.75	32.09	32.01	954.58	183.70	173.45
P1462_143_Zrn_A_1_MBD_102	726.94	21.89	21.85	206Pb/238U	762	7.48	1.10404	0.04822	0.11937	0.00380	755.30	23.40	23.14	726.94	21.89	21.85	840.21	92.13	89.49
P1462_143_Zrn_A_1_MBD_78	819.00	23.10	23.06	206Pb/238U	576	4.58	1.28472	0.06400	0.13547	0.00407	838.95	28.64	28.25	819.00	23.10	23.06	892.14	93.68	90.95

**Table 2.** U–Pb age data from the Cretaceous Colombian back–arc basin (*continued*).

Analysis name	Preferred age (Ma)	Sample GPS-572																	
		2–sigma	2 +sigma	Age type	[U] (ppm)	U/Th	207Pb/235U Ratio	2 sigma	206Pb/238U Ratio	2 sigma	207Pb/235Uc age (Ma)	2–sigma	2 +sigma	206Pb/238U age (Ma)	2–sigma	2 +sigma	207Pb/206Pb age (Ma)	2–sigma	2 +sigma
P1462_143_Zrn_A_1_MBD_62	832.13	56.25	56.01	206Pb/238U	49	2.40	1.39025	0.21312	0.13779	0.00991	884.80	92.61	88.57	832.13	56.25	56.01	1018.91	303.76	276.62
P1462_143_Zrn_A_1_MBD_82	910.42	24.16	24.11	206Pb/238U	193	1.47	1.49958	0.10038	0.15169	0.00431	930.22	41.19	40.37	910.42	24.16	24.11	977.44	136.11	130.39
P1462_143_Zrn_A_1_MBD_100	921.17	37.45	37.34	206Pb/238U	191	1.66	1.47209	0.09117	0.15361	0.00669	918.99	37.80	37.11	921.17	37.45	37.34	913.76	120.55	116.06
P1462_143_Zrn_A_1_MBD_22	923.13	36.47	36.37	206Pb/238U	327	5.35	1.51185	0.11770	0.15396	0.00652	935.19	48.14	47.03	923.13	36.47	36.37	963.72	147.07	140.42
P1462_143_Zrn_A_1_MBD_8	957.66	35.79	35.69	206Pb/238U	232	2.81	1.48118	0.10305	0.16016	0.00643	922.71	42.62	41.74	957.66	35.79	35.69	840.07	140.43	134.40
P1462_143_Zrn_A_1_MBD_51	958.43	35.82	35.20	207Pb/235Uc	358	2.18	1.57002	0.08987	0.15768	0.00695	958.43	35.82	35.20	943.90	38.74	38.62	991.94	101.24	98.04
P1462_143_Zrn_A_1_MBD_84	964.00	33.26	33.18	206Pb/238U	154	3.57	1.60914	0.11165	0.16130	0.00598	973.77	43.92	42.99	964.00	33.26	33.18	995.89	144.73	138.28
P1462_143_Zrn_A_1_MBD_104	965.55	29.78	29.72	206Pb/238U	161	1.41	1.60790	0.10140	0.16158	0.00536	973.29	39.87	39.10	965.55	29.78	29.72	990.81	120.78	116.26
P1462_143_Zrn_A_1_MBD_54	968.56	44.34	43.39	207Pb/235Uc	241	6.07	1.59578	0.11211	0.15851	0.00822	968.56	44.34	43.39	948.47	45.83	45.66	1014.42	124.60	119.79
P1462_143_Zrn_A_1_MBD_42	970.44	36.55	36.45	206Pb/238U	176	3.07	1.53751	0.10384	0.16246	0.00658	945.51	41.98	41.13	970.44	36.55	36.45	887.88	128.53	123.45
P1462_143_Zrn_A_1_MBD_19	972.29	32.00	31.92	206Pb/238U	204	3.55	1.52121	0.10581	0.16279	0.00577	938.97	43.07	42.17	972.29	32.00	31.92	861.58	147.43	140.79
P1462_143_Zrn_A_1_MBD_99	973.19	36.97	36.31	207Pb/235Uc	341	2.02	1.60765	0.09408	0.16039	0.00714	973.19	36.97	36.31	958.94	39.73	39.61	1005.50	100.20	97.06
P1462_143_Zrn_A_1_MBD_106	979.89	28.88	28.81	206Pb/238U	406	2.88	1.56826	0.07916	0.16417	0.00521	957.74	31.54	31.06	979.89	28.88	28.81	907.20	100.29	97.16
P1462_143_Zrn_A_1_MBD_80	981.77	40.20	40.08	206Pb/238U	121	1.72	1.68978	0.16122	0.16451	0.00725	1004.68	61.79	59.96	981.77	40.20	40.08	1054.99	188.67	177.82
P1462_143_Zrn_A_1_MBD_40	983.11	38.33	38.21	206Pb/238U	114	1.00	1.71340	0.11744	0.16475	0.00691	1013.56	44.43	43.48	983.11	38.33	38.21	1079.94	135.35	129.66
P1462_143_Zrn_A_1_MBD_95	988.36	25.67	25.62	206Pb/238U	394	2.73	1.65853	0.08665	0.16570	0.00464	992.81	33.37	32.83	988.36	25.67	25.62	1002.68	104.18	100.80
P1462_143_Zrn_A_1_MBD_21	990.39	44.11	43.96	206Pb/238U	126	1.87	1.71313	0.15328	0.16606	0.00797	1013.46	58.19	56.57	990.39	44.11	43.96	1063.64	168.54	159.82
P1462_143_Zrn_A_1_MBD_105	1003.06	40.30	40.17	206Pb/238U	115	2.82	1.79100	0.13440	0.16836	0.00729	1042.19	49.50	48.32	1003.06	40.30	40.17	1125.17	139.97	133.89
P1462_143_Zrn_A_1_MBD_63	1016.17	27.84	27.78	206Pb/238U	378	2.96	1.74267	0.10311	0.17074	0.00505	1024.45	38.54	37.82	1016.17	27.84	27.78	1042.19	115.91	111.73
P1462_143_Zrn_A_1_MBD_86	1033.68	39.08	38.34	207Pb/235Uc	264	2.69	1.76771	0.10550	0.16701	0.00714	1033.68	39.08	38.34	995.59	39.48	39.36	1115.16	101.81	98.56
P1462_143_Zrn_A_1_MBD_98	1056.33	33.56	33.02	207Pb/235Uc	530	3.10	1.83015	0.09279	0.17419	0.00656	1056.33	33.56	33.02	1035.14	36.05	35.95	1100.39	85.45	83.15
P1462_143_Zrn_A_1_MBD_14	1071.49	36.66	36.56	206Pb/238U	425	3.62	1.88796	0.12462	0.18083	0.00671	1076.87	44.29	43.35	1071.49	36.66	36.56	1087.76	124.35	119.53
P1462_143_Zrn_A_1_MBD_45	1129.28	48.01	47.83	206Pb/238U	67	0.72	2.16845	0.17110	0.19146	0.00886	1170.98	55.58	54.10	1129.28	48.01	47.83	1248.92	152.99	145.71
P1462_143_Zrn_A_1_MBD_57	1154.92	35.31	35.21	206Pb/238U	146	2.20	2.15555	0.13594	0.19621	0.00654	1166.84	44.22	43.28	1154.92	35.31	35.21	1189.03	121.35	116.74
P1462_143_Zrn_A_1_MBD_37	1164.63	35.69	35.59	206Pb/238U	261	2.62	2.25229	0.13168	0.19801	0.00662	1197.50	41.53	40.70	1164.63	35.69	35.59	1257.32	110.66	106.80
P1462_143_Zrn_A_1_MBD_3	1179.60	43.71	43.56	206Pb/238U	299	2.11	2.14243	0.14387	0.20080	0.00813	1162.61	47.03	45.96	1179.60	43.71	43.56	1131.08	124.58	119.74
P1462_143_Zrn_A_1_MBD_49	1194.13	42.18	41.33	207Pb/235Uc	277	2.14	2.24152	0.13328	0.20378	0.00922	1194.13	42.18	41.33	1195.58	49.49	49.30	1191.51	95.17	92.30
P1462_143_Zrn_A_1_MBD_32	1213.59	36.61	36.51	206Pb/238U	328	1.94	2.32007	0.14409	0.20714	0.00685	1218.45	44.55	43.60	1213.59	36.61	36.51	1227.06	123.16	118.40
P1462_143_Zrn_A_1_MBD_6	1218.42	38.40	37.68	207Pb/235Uc	354	2.29	2.32000	0.12437	0.20860	0.00740	1218.42	38.40	37.68	1221.34	39.53	39.41	1213.27	100.22	97.04
P1462_143_Zrn_A_1_MBD_30	1229.93	52.02	51.81	206Pb/238U	212	2.61	2.49389	0.19158	0.21021	0.00975	1270.26	56.45	54.93	1229.93	52.02	51.81	1339.20	139.54	133.43
P1462_143_Zrn_A_1_MBD_33	1262.12	57.87	56.26	207Pb/235Uc	413	7.26	2.46598	0.19474	0.22570	0.01270	1262.12	57.87	56.26	1311.90	66.95	66.60	1178.24	127.95	122.83
P1462_143_Zrn_A_1_MBD_71	1263.99	51.21	49.95	207Pb/235Uc	180	4.19	2.47239	0.17293	0.20868	0.00958	1263.99	51.21	49.95	1221.76	51.21	51.00	1336.61	144.72	138.15
P1462_143_Zrn_A_1_MBD_47	1308.43	37.45	36.77	207Pb/235Uc	482	1.56	2.62773	0.13256	0.22384	0.00822	1308.43	37.45	36.77	1302.13	43.35	43.21	1318.77	90.68	88.06
P1462_143_Zrn_A_1_MBD_74	1320.07	34.43	33.85	207Pb/235Uc	403	1.75	2.66954	0.12336	0.22169	0.00727	1320.07	34.43	33.85	1290.80	38.44	38.33	1367.90	80.72	78.63
P1462_143_Zrn_A_1_MBD_44	1320.87	35.54	34.93	207Pb/235Uc	755	2.76	2.67244	0.12741	0.22518	0.00676	1320.87	35.54	34.93	1309.16	35.63	35.53	1339.91	90.71	88.09
P1462_143_Zrn_A_1_MBD_1	1339.53	42.28	41.42	207Pb/235Uc	279	1.39	2.74055	0.15415	0.22796	0.00899	1339.53	42.28	41.42	1323.79	47.28	47.11	1364.76	104.31	100.85
P1462_143_Zrn_A_1_MBD_48	1345.29	46.23	45.20	207Pb/235Uc	427	3.67	2.76184	0.16935	0.23225	0.01068	1345.29	46.23	45.20	1346.27	56.02	55.78	1343.73	96.13	93.18
P1462_143_Zrn_A_1_MBD_7	1356.78	51.98	50.69	207Pb/235Uc	183	3.04	2.80465	0.19231	0.23340	0.01023	1356.78	51.98	50.69	1352.28	53.58	53.36	1363.88	120.13	115.56
P1462_143_Zrn_A_1_MBD_18	1373.40	39.25	38.51	207Pb/235Uc	281	0.73	2.86745	0.14807	0.23754	0.00803	1373.40	39.25	38.51	1373.90	41.90	41.77	1372.62	94.91	92.03
P1462_143_Zrn_A_1_MBD_9	1386.98	44.09	43.94	206Pb/238U	342	1.22	2.96546	0.17563	0.24005	0.00847	1398.81	45.48	44.48	1386.98	44.09	43.94	1416.90	108.24	104.51
P1462_143_Zrn_A_1_MBD_52	1403.33	58.62	56.97	207Pb/235Uc	456	2.69	2.98315	0.22666	0.23779	0.01124	1403.33	58.62	56.97	1375.19	58.65	58.38	1446.35	126.86	121.75
P1462_143_Zrn_A_1_MBD_91	1449.06	33.33	32.79	207Pb/235Uc	420	2.97	3.16661	0.13564	0.24706	0.00814	1449.06	33.33	32.79	1423.31	42.17	42.03	1487.02	72.97	71.25



**Table 2.** U–Pb age data from the Cretaceous Colombian back–arc basin (*continued*).

Sample GPS–572																			
Analysis name	Preferred age (Ma)	2 –sigma	2 +sigma	Age type	[U] (ppm)	U/Th	207Pb/235U Ratio	2 sigma	206Pb/238U Ratio	2 sigma	207Pb/235Uc age (Ma)	2 –sigma	2 +sigma	206Pb/238U age (Ma)	2 –sigma	2 +sigma	207Pb/206Pb age (Ma)	2 –sigma	2 +sigma
P1462_143_Zrn_A_1_MBD_50	1481.32	49.00	47.85	207Pb/235Uc	283	2.57	3.30111	0.20508	0.25179	0.00933	1481.32	49.00	47.85	1447.71	48.16	47.98	1529.79	110.93	106.99
P1462_143_Zrn_A_1_MBD_75	1485.36	50.97	49.72	207Pb/235Uc	55	0.81	3.31828	0.21405	0.25040	0.01013	1485.36	50.97	49.72	1440.54	52.31	52.10	1549.97	114.39	110.20
P1462_143_Zrn_A_1_MBD_103	1486.03	41.80	40.96	207Pb/235Uc	215	1.74	3.32113	0.17608	0.26156	0.00818	1486.03	41.80	40.96	1497.82	41.85	41.72	1469.25	98.65	95.54
P1462_143_Zrn_A_1_MBD_65	1562.19	47.84	46.74	207Pb/235Uc	230	0.65	3.65772	0.21687	0.26780	0.01138	1562.19	47.84	46.74	1529.61	57.98	57.72	1606.52	91.16	88.47
P1462_143_Zrn_A_1_MBD_73	1596.02	46.48	45.44	207Pb/235Uc	294	0.83	3.81550	0.21791	0.26381	0.01147	1596.02	46.48	45.44	1509.32	58.65	58.39	1712.48	97.02	93.96
P1462_143_Zrn_A_1_MBD_53	1604.38	48.64	47.50	207Pb/235Uc	209	1.63	3.85533	0.22980	0.27613	0.01037	1604.38	48.64	47.50	1571.83	52.49	52.28	1647.40	107.33	103.62
P1462_143_Zrn_A_1_MBD_94	1609.77	38.34	37.63	207Pb/235Uc	340	1.65	3.88117	0.18256	0.27273	0.00983	1609.77	38.34	37.63	1554.66	49.90	49.70	1682.64	71.22	69.57
P1462_143_Zrn_A_1_MBD_89	1646.18	56.73	55.19	207Pb/235Uc	125	2.61	4.05935	0.27876	0.29043	0.01255	1646.18	56.73	55.19	1643.68	62.83	62.52	1649.37	118.27	113.78
P1462_143_Zrn_A_1_MBD_70	1747.63	47.44	46.36	207Pb/235Uc	224	2.71	4.59096	0.25821	0.29765	0.00992	1747.63	47.44	46.36	1679.65	49.37	49.18	1829.94	94.55	91.63
P1462_143_Zrn_A_1_MBD_43	1990.74	67.79	65.60	207Pb/235Uc	259	0.88	6.10346	0.46640	0.36525	0.02308	1990.74	67.79	65.60	2007.02	109.45	108.53	1973.88	107.91	104.10
P1462_143_Zrn_A_1_MBD_109	2034.07	35.54	34.93	207Pb/235Uc	469	1.91	6.41314	0.25723	0.36868	0.01059	2034.07	35.54	34.93	2023.20	49.96	49.77	2045.12	62.49	61.19

  

Sample GPS–579																			
Analysis name	Preferred age (Ma)	2 –sigma	2 +sigma	Age type	[U] (ppm)	U/Th	207Pb/235U Ratio	2 sigma	206Pb/238U Ratio	2 sigma	207Pb/235Uc age (Ma)	2 –sigma	2 +sigma	206Pb/238U age (Ma)	2 –sigma	2 +sigma	207Pb/206Pb age (Ma)	2 –sigma	2 +sigma
P1462_148_Zrn_A_1_MBD_76	110.78	22.31	22.27	206Pb/238U	20	3.21	0.13590	0.11439	0.01733	0.00352	129.39	104.92	99.76	110.78	22.31	22.27	486.35	972.70	1483.98
P1462_148_Zrn_A_1_MBD_51	117.85	16.73	16.71	206Pb/238U	90	1.90	0.13617	0.03634	0.01845	0.00264	129.62	32.74	32.22	117.85	16.73	16.71	351.27	702.53	611.08
P1462_148_Zrn_A_1_MBD_16	118.95	6.66	6.66	206Pb/238U	184	1.69	0.13372	0.01930	0.01862	0.00105	127.44	17.36	17.22	118.95	6.66	6.66	288.85	353.16	318.45
P1462_148_Zrn_A_1_MBD_13	123.01	13.00	12.99	206Pb/238U	116	1.83	0.14305	0.03499	0.01926	0.00205	135.75	31.32	30.85	123.01	13.00	12.99	364.94	653.22	543.04
P1462_148_Zrn_A_1_MBD_0	124.24	11.56	11.55	206Pb/238U	80	3.66	0.15692	0.06410	0.01946	0.00183	148.01	57.06	55.50	124.24	11.56	11.55	548.00	1036.39	781.24
P1462_148_Zrn_A_1_MBD_4	127.08	10.31	10.30	206Pb/238U	83	2.14	0.14335	0.04777	0.01991	0.00163	136.02	42.87	41.99	127.08	10.31	10.30	295.08	590.16	695.22
P1462_148_Zrn_A_1_MBD_99	127.55	14.89	14.88	206Pb/238U	58	3.10	0.14309	0.05007	0.01998	0.00236	135.79	44.97	44.00	127.55	14.89	14.88	282.41	564.83	731.42
P1462_148_Zrn_A_1_MBD_100	133.92	11.00	10.99	206Pb/238U	85	1.62	0.16370	0.06634	0.02099	0.00174	153.94	58.72	57.07	133.92	11.00	10.99	474.49	948.98	785.85
P1462_148_Zrn_A_1_MBD_8	135.29	10.82	10.81	206Pb/238U	116	1.71	0.15156	0.04140	0.02121	0.00171	143.29	36.84	36.18	135.29	10.82	10.81	277.86	555.71	580.63
P1462_148_Zrn_A_1_MBD_107	144.61	14.27	14.25	206Pb/238U	58	1.53	0.16337	0.03851	0.02269	0.00226	153.64	33.89	33.34	144.61	14.27	14.25	295.32	590.65	523.51
P1462_148_Zrn_A_1_MBD_6	149.72	12.13	12.12	206Pb/238U	97	1.43	0.15326	0.04159	0.02350	0.00192	144.79	36.95	36.29	149.72	12.13	12.12	64.77	129.54	601.80
P1462_148_Zrn_A_1_MBD_68	152.03	9.09	9.09	206Pb/238U	172	1.24	0.17928	0.02605	0.02386	0.00144	167.44	22.56	22.31	152.03	9.09	9.09	391.23	349.18	315.00
P1462_148_Zrn_A_1_MBD_101	153.74	5.42	5.42	206Pb/238U	610	2.32	0.16183	0.01722	0.02414	0.00086	152.31	15.10	14.99	153.74	5.42	5.42	130.00	259.81	241.50
P1462_148_Zrn_A_1_MBD_77	157.45	24.40	24.36	206Pb/238U	25	3.15	0.20581	0.10496	0.02473	0.00388	190.03	90.37	86.52	157.45	24.40	24.36	616.87	1233.74	973.80
P1462_148_Zrn_A_1_MBD_3	159.71	11.50	11.49	206Pb/238U	148	1.68	0.18341	0.02976	0.02509	0.00183	170.99	25.70	25.38	159.71	11.50	11.49	329.95	406.60	361.15
P1462_148_Zrn_A_1_MBD_86	162.42	13.07	13.06	206Pb/238U	70	3.02	0.20392	0.07449	0.02551	0.00208	188.44	63.82	61.87	162.42	13.07	13.06	528.47	926.64	717.54
P1462_148_Zrn_A_1_MBD_91	165.89	7.15	7.14	206Pb/238U	168	1.02	0.18712	0.02777	0.02607	0.00114	174.17	23.90	23.62	165.89	7.15	7.14	288.13	356.64	321.27
P1462_148_Zrn_A_1_MBD_108	170.08	13.19	13.18	206Pb/238U	92	1.44	0.19933	0.03514	0.02674	0.00210	184.56	29.97	29.54	170.08	13.19	13.18	374.09	456.31	399.68
P1462_148_Zrn_A_1_MBD_78	172.28	13.18	13.17	206Pb/238U	110	1.15	0.20193	0.02911	0.02709	0.00210	186.76	24.74	24.44	172.28	13.18	13.17	374.04	347.93	314.01
P1462_148_Zrn_A_1_MBD_5	172.67	13.61	13.59	206Pb/238U	138	0.98	0.19670	0.03807	0.02715	0.00217	182.33	32.56	32.05	172.67	13.61	13.59	309.49	500.93	433.73
P1462_148_Zrn_A_1_MBD_1	173.48	10.30	10.29	206Pb/238U	98	1.07	0.18658	0.06113	0.02728	0.00164	173.71	53.00	51.65	173.48	10.30	10.29	176.89	353.79	684.65
P1462_148_Zrn_A_1_MBD_23	174.47	16.82	16.80	206Pb/238U	52	1.10	0.19555	0.05662	0.02743	0.00268	181.36	48.66	47.52	174.47	16.82	16.80	272.05	544.09	615.26
P1462_148_Zrn_A_1_MBD_79	175.23	12.57	12.56	206Pb/238U	88	0.94	0.19699	0.04718	0.02756	0.00200	182.57	40.42	39.63	175.23	12.57	12.56	278.63	557.26	516.20
P1462_148_Zrn_A_1_MBD_2	175.41	10.80	10.79	206Pb/238U	270	1.74	0.18994	0.02896	0.02758	0.00172	176.58	24.86	24.56	175.41	10.80	10.79	192.17	362.18	325.97
P1462_148_Zrn_A_1_MBD_37	175.69	34.11	34.02	206Pb/238U	74	1.13	0.18536	0.06577	0.02763	0.00543	172.66	57.13	55.57	175.69	34.11	34.02	131.38	262.76	692.39
P1462_148_Zrn_A_1_MBD_40	176.09	13.26	13.25	206Pb/238U	99	1.22	0.19408	0.04706	0.02769	0.00211	180.11	40.42	39.63	176.09	13.26	13.25	233.08	466.15	521.45
P1462_148_Zrn_A_1_MBD_25	176.50	47.15	46.98	206Pb/238U	11	1.46	0.19601	0.32832	0.02776	0.00750	181.74	299.82	261.20	176.50	47.15	46.98	250.52	501.04	2531.74

**Table 2.** U–Pb age data from the Cretaceous Colombian back–arc basin (*continued*).

Sample GPS-579																			
Analysis name	Preferred age (Ma)	2–sigma	2 +sigma	Age type	[U] (ppm)	U/Th	207Pb/235U Ratio	2 sigma	206Pb/238U Ratio	2 sigma	207Pb/235Uc age (Ma)	2–sigma	2 +sigma	206Pb/238U age (Ma)	2–sigma	2 +sigma	207Pb/206Pb age (Ma)	2–sigma	2 +sigma
P1462_148_Zrn_A_1_MBD_93	179.64	21.67	21.63	206Pb/238U	46	1.45	0.18975	0.08597	0.02826	0.00345	176.41	74.73	72.07	179.64	21.67	21.63	133.42	266.85	936.29
P1462_148_Zrn_A_1_MBD_11	179.73	5.21	5.20	206Pb/238U	2214	1.08	0.19459	0.01329	0.02827	0.00083	180.54	11.33	11.27	179.73	5.21	5.20	191.17	158.07	150.77
P1462_148_Zrn_A_1_MBD_71	179.85	8.42	8.41	206Pb/238U	225	0.94	0.20943	0.02685	0.02829	0.00134	193.07	22.67	22.42	179.85	8.42	8.41	357.97	305.84	279.35
P1462_148_Zrn_A_1_MBD_90	180.29	11.86	11.85	206Pb/238U	118	1.59	0.19160	0.04741	0.02836	0.00189	177.99	40.81	40.00	180.29	11.86	11.85	147.57	295.14	541.01
P1462_148_Zrn_A_1_MBD_102	180.80	6.95	6.95	206Pb/238U	1171	12.63	0.18877	0.01282	0.02844	0.00111	175.58	10.98	10.92	180.80	6.95	6.95	105.91	155.88	148.81
P1462_148_Zrn_A_1_MBD_92	180.94	9.64	9.63	206Pb/238U	128	1.27	0.23454	0.04877	0.02847	0.00154	213.94	40.51	39.72	180.94	9.64	9.63	594.85	489.13	423.83
P1462_148_Zrn_A_1_MBD_87	182.80	18.50	18.47	206Pb/238U	47	1.63	0.22007	0.06844	0.02876	0.00295	201.97	57.77	56.18	182.80	18.50	18.47	432.10	813.67	648.81
P1462_148_Zrn_A_1_MBD_88	183.77	8.62	8.61	206Pb/238U	319	0.93	0.20967	0.05094	0.02892	0.00138	193.28	43.22	42.32	183.77	8.62	8.61	311.07	606.60	510.73
P1462_148_Zrn_A_1_MBD_98	185.19	10.69	10.68	206Pb/238U	91	1.75	0.21756	0.05186	0.02914	0.00171	199.87	43.71	42.79	185.19	10.69	10.68	376.94	592.73	500.53
P1462_148_Zrn_A_1_MBD_39	185.27	17.47	17.45	206Pb/238U	67	1.22	0.21332	0.05427	0.02916	0.00279	196.33	45.93	44.91	185.27	17.47	17.45	331.43	647.36	539.18
P1462_148_Zrn_A_1_MBD_12	185.77	13.74	13.73	206Pb/238U	80	1.20	0.21039	0.04107	0.02924	0.00219	193.88	34.75	34.17	185.77	13.74	13.73	293.82	488.02	424.08
P1462_148_Zrn_A_1_MBD_85	185.87	10.37	10.36	206Pb/238U	123	1.07	0.20214	0.04644	0.02925	0.00165	186.94	39.61	38.85	185.87	10.37	10.36	200.44	400.88	496.51
P1462_148_Zrn_A_1_MBD_32	186.49	16.14	16.12	206Pb/238U	69	1.12	0.20703	0.04202	0.02935	0.00258	191.06	35.66	35.04	186.49	16.14	16.12	247.91	495.82	458.56
P1462_148_Zrn_A_1_MBD_97	187.24	15.40	15.38	206Pb/238U	70	1.21	0.21704	0.05946	0.02947	0.00246	199.45	50.22	49.01	187.24	15.40	15.38	346.36	692.52	570.17
P1462_148_Zrn_A_1_MBD_95	187.60	12.67	12.66	206Pb/238U	106	1.08	0.22230	0.05256	0.02953	0.00202	203.82	44.14	43.20	187.60	12.67	12.66	395.80	580.13	491.43
P1462_148_Zrn_A_1_MBD_10	188.05	14.36	14.34	206Pb/238U	88	1.29	0.21545	0.04267	0.02960	0.00229	198.12	35.97	35.34	188.05	14.36	14.34	319.71	465.19	406.65
P1462_148_Zrn_A_1_MBD_96	192.72	9.82	9.81	206Pb/238U	178	1.38	0.21196	0.02590	0.03035	0.00157	195.20	21.81	21.58	192.72	9.82	9.81	225.20	305.57	279.34
P1462_148_Zrn_A_1_MBD_94	193.95	13.87	13.86	206Pb/238U	119	0.93	0.21752	0.04286	0.03054	0.00222	199.84	36.06	35.43	193.95	13.87	13.86	269.95	482.95	420.34
P1462_148_Zrn_A_1_MBD_69	199.34	19.15	19.12	206Pb/238U	42	1.66	0.26254	0.10451	0.03141	0.00306	236.71	85.84	82.36	199.34	19.15	19.12	626.12	1013.34	767.17
P1462_148_Zrn_A_1_MBD_103	206.30	23.87	23.82	206Pb/238U	52	1.40	0.21385	0.06673	0.03252	0.00382	196.78	56.60	55.07	206.30	23.87	23.82	84.07	168.14	701.89
P1462_148_Zrn_A_1_MBD_109	210.01	11.16	11.15	206Pb/238U	143	0.87	0.24060	0.03051	0.03311	0.00179	218.91	25.13	24.82	210.01	11.16	11.15	315.69	305.49	279.13
P1462_148_Zrn_A_1_MBD_9	210.27	14.63	14.62	206Pb/238U	106	1.06	0.22121	0.03588	0.03316	0.00234	202.92	30.05	29.61	210.27	14.63	14.62	118.24	236.48	363.53
P1462_148_Zrn_A_1_MBD_75	210.45	17.59	17.57	206Pb/238U	66	1.40	0.23185	0.06488	0.03319	0.00282	211.72	54.19	52.79	210.45	17.59	17.57	225.88	451.76	597.18
P1462_148_Zrn_A_1_MBD_15	210.64	25.64	25.59	206Pb/238U	71	1.17	0.24676	0.05450	0.03322	0.00411	223.94	44.88	43.91	210.64	25.64	25.59	365.98	604.82	509.17
P1462_148_Zrn_A_1_MBD_105	213.86	10.62	10.61	206Pb/238U	105	1.01	0.25884	0.05233	0.03373	0.00170	233.73	42.65	41.77	213.86	10.62	10.61	438.64	492.05	426.58
P1462_148_Zrn_A_1_MBD_80	349.54	51.07	50.87	206Pb/238U	16	3.99	0.43193	0.22178	0.05572	0.00835	364.54	163.69	151.47	349.54	51.07	50.87	461.17	922.34	955.36
P1462_148_Zrn_A_1_MBD_89	565.48	21.90	21.87	206Pb/238U	536	2.97	0.80208	0.06623	0.09168	0.00371	598.00	37.66	36.98	565.48	21.90	21.87	723.32	172.89	163.90
P1462_148_Zrn_A_1_MBD_64	611.67	56.21	55.96	206Pb/238U	45	1.16	0.82093	0.17962	0.09953	0.00957	608.57	102.71	97.77	611.67	56.21	55.96	597.04	491.06	425.26
P1462_148_Zrn_A_1_MBD_7	615.24	18.10	18.07	206Pb/238U	375	1.25	0.84919	0.05995	0.10014	0.00309	624.20	33.19	32.66	615.24	18.10	18.07	656.82	152.13	145.16
P1462_148_Zrn_A_1_MBD_22	870.33	44.09	43.94	206Pb/238U	47	2.53	1.33736	0.19071	0.14455	0.00781	862.08	84.58	81.20	870.33	44.09	43.94	840.93	303.25	276.46
P1462_148_Zrn_A_1_MBD_61	953.93	66.81	66.47	206Pb/238U	32	3.65	1.55856	0.20825	0.15949	0.01199	953.90	84.38	81.01	953.93	66.81	66.47	953.81	284.96	261.03
P1462_148_Zrn_A_1_MBD_18	978.11	95.86	95.15	206Pb/238U	22	2.87	1.62188	0.29793	0.16384	0.01724	978.72	118.79	112.22	978.11	95.86	95.15	980.09	379.92	338.47
P1462_148_Zrn_A_1_MBD_106	987.03	56.81	56.56	206Pb/238U	148	2.92	1.73313	0.17329	0.16546	0.01025	1020.92	65.42	63.38	987.03	56.81	56.56	1094.30	185.14	174.65
P1462_148_Zrn_A_1_MBD_72	1100.60	29.10	29.03	206Pb/238U	289	15.51	1.98892	0.12907	0.18617	0.00535	1111.75	44.33	43.38	1100.60	29.10	29.03	1133.63	123.54	118.78
P1462_148_Zrn_A_1_MBD_24	1146.52	50.54	50.35	206Pb/238U	100	2.39	2.03281	0.18280	0.19465	0.00935	1126.56	62.14	60.30	1146.52	50.54	50.35	1088.26	171.89	162.82
P1462_148_Zrn_A_1_MBD_38	1163.45	71.21	70.82	206Pb/238U	31	1.83	2.15879	0.25404	0.19779	0.01319	1167.88	83.35	80.06	1163.45	71.21	70.82	1176.12	220.08	205.36
P1462_148_Zrn_A_1_MBD_21	1206.56	42.74	41.86	207Pb/235Uc	118	2.64	2.28142	0.13667	0.20817	0.00838	1206.56	42.74	41.86	1219.07	44.79	44.63	1184.24	119.51	115.03

  

Sample GPS-599																			
Analysis name	Preferred age (Ma)	2–sigma	2 +sigma	Age type	[U] (ppm)	U/Th	207Pb/235U Ratio	2 sigma	206Pb/238U Ratio	2 sigma	207Pb/235Uc age (Ma)	2–sigma	2 +sigma	206Pb/238U age (Ma)	2–sigma	2 +sigma	207Pb/206Pb age (Ma)	2–sigma	2 +sigma
P1462_108_Zrn_A_1_POS_13	131.55	18.21	18.19	206Pb/238U	88	3.20	0.14553	0.02939	0.02062	0.00288	137.95	26.22	25.89	131.55	18.21	18.19	249.71	499.41	498.38
P1462_108_Zrn_A_1_POS_7	137.95	9.23	9.22	206Pb/238U	67	1.15	0.15672	0.03453	0.02163	0.00146	147.83	30.54	30.09	137.95	9.23	9.22	309.38	552.45	471.82

**Table 2.** U–Pb age data from the Cretaceous Colombian back–arc basin (*continued*).

Analysis name	Sample GPS–599																		
	Preferred age (Ma)	2 –sigma	2 +sigma	Age type	[U] (ppm)	U/Th	207Pb/235U Ratio	2 sigma	206Pb/238U Ratio	2 sigma	207Pb/235Uc age (Ma)	2 –sigma	2 +sigma	206Pb/238U age (Ma)	2 –sigma	2 +sigma	207Pb/206Pb age (Ma)	2 –sigma	2 +sigma
P1462_108_Zrn_A_1_POS_72	142.34	9.55	9.54	206Pb/238U	64	2.73	0.15512	0.04306	0.02233	0.00151	146.42	38.21	37.50	142.34	9.55	9.54	213.07	426.14	589.43
P1462_108_Zrn_A_1_POS_26	145.86	4.93	4.93	206Pb/238U	287	1.95	0.16833	0.02815	0.02288	0.00078	157.97	24.61	24.32	145.86	4.93	4.93	343.66	402.04	357.51
P1462_108_Zrn_A_1_POS_46	147.78	10.26	10.26	206Pb/238U	71	2.65	0.17679	0.06716	0.02319	0.00163	165.30	58.79	57.13	147.78	10.26	10.26	424.18	848.35	759.49
P1462_108_Zrn_A_1_POS_28	154.37	6.61	6.61	206Pb/238U	761	1.34	0.16274	0.01366	0.02424	0.00105	153.10	11.96	11.89	154.37	6.61	6.61	133.34	210.30	197.61
P1462_108_Zrn_A_1_POS_73	168.75	5.48	5.48	206Pb/238U	341	1.41	0.17310	0.02139	0.02652	0.00087	162.10	18.60	18.43	168.75	5.48	5.48	66.12	132.23	281.11
P1462_108_Zrn_A_1_POS_91	172.66	18.57	18.54	206Pb/238U	59	1.55	0.17840	0.03758	0.02715	0.00296	166.69	32.64	32.13	172.66	18.57	18.54	82.69	165.38	502.65
P1462_108_Zrn_A_1_POS_14	179.50	8.25	8.24	206Pb/238U	96	0.99	0.20541	0.04442	0.02824	0.00132	189.69	37.77	37.08	179.50	8.25	8.24	318.54	533.45	457.86
P1462_108_Zrn_A_1_POS_1	179.58	6.41	6.40	206Pb/238U	150	2.15	0.20427	0.02335	0.02825	0.00102	188.73	19.78	19.59	179.58	6.41	6.40	304.81	274.69	253.21
P1462_108_Zrn_A_1_POS_37	185.97	9.23	9.22	206Pb/238U	90	1.23	0.19996	0.04356	0.02927	0.00147	185.09	37.19	36.53	185.97	9.23	9.22	173.88	347.76	468.59
P1462_108_Zrn_A_1_POS_101	187.67	5.39	5.39	206Pb/238U	261	1.34	0.20077	0.01991	0.02954	0.00086	185.77	16.90	16.76	187.67	5.39	5.39	161.79	235.74	219.88
P1462_108_Zrn_A_1_POS_54	188.38	17.68	17.66	206Pb/238U	130	1.13	0.22577	0.04636	0.02965	0.00282	206.70	38.77	38.05	188.38	17.68	17.66	421.11	487.48	423.21
P1462_108_Zrn_A_1_POS_98	192.93	7.85	7.85	206Pb/238U	153	0.83	0.21742	0.02934	0.03038	0.00125	199.76	24.62	24.32	192.93	7.85	7.85	281.25	330.42	299.85
P1462_108_Zrn_A_1_POS_71	193.37	6.09	6.08	206Pb/238U	489	2.38	0.21268	0.01756	0.03045	0.00097	195.80	14.76	14.65	193.37	6.09	6.08	225.20	198.70	187.27
P1462_108_Zrn_A_1_POS_106	197.14	12.49	12.47	206Pb/238U	190	1.75	0.21775	0.04661	0.03105	0.00200	200.04	39.24	38.50	197.14	12.49	12.47	234.35	468.70	472.09
P1462_108_Zrn_A_1_POS_25	198.10	12.35	12.34	206Pb/238U	118	0.85	0.22956	0.04605	0.03121	0.00197	209.84	38.39	37.68	198.10	12.35	12.34	343.72	501.18	433.79
P1462_108_Zrn_A_1_POS_60	201.62	17.87	17.85	206Pb/238U	32	0.88	0.22316	0.06880	0.03177	0.00286	204.53	57.93	56.33	201.62	17.87	17.85	238.28	476.57	647.62
P1462_108_Zrn_A_1_POS_56	204.18	18.80	18.77	206Pb/238U	126	1.13	0.22498	0.07429	0.03218	0.00301	206.05	62.53	60.66	204.18	18.80	18.77	227.42	454.83	674.71
P1462_108_Zrn_A_1_POS_94	219.39	5.24	5.24	206Pb/238U	4839	1.62	0.25228	0.00889	0.03462	0.00084	228.42	7.22	7.20	219.39	5.24	5.24	322.44	83.87	81.75
P1462_108_Zrn_A_1_POS_30	232.54	9.08	9.07	206Pb/238U	138	1.45	0.25255	0.03982	0.03673	0.00146	228.65	32.54	32.02	232.54	9.08	9.07	188.83	377.66	349.77
P1462_108_Zrn_A_1_POS_92	276.06	11.58	11.57	206Pb/238U	303	1.88	0.30097	0.03722	0.04375	0.00187	267.16	29.26	28.84	276.06	11.58	11.57	189.87	304.86	278.80
P1462_108_Zrn_A_1_POS_79	276.65	13.96	13.95	206Pb/238U	125	1.36	0.30690	0.05090	0.04385	0.00226	271.77	39.93	39.16	276.65	13.96	13.95	229.98	412.17	365.81
P1462_108_Zrn_A_1_POS_75	277.65	7.62	7.62	206Pb/238U	277	2.95	0.32334	0.03014	0.04401	0.00123	284.47	23.26	23.00	277.65	7.62	7.62	340.92	218.17	204.37
P1462_108_Zrn_A_1_POS_11	284.73	9.54	9.53	206Pb/238U	235	2.43	0.32475	0.02524	0.04516	0.00155	285.55	19.44	19.25	284.73	9.54	9.53	292.27	186.45	176.30
P1462_108_Zrn_A_1_POS_3	335.26	20.26	20.23	206Pb/238U	50	2.10	0.42903	0.07349	0.05338	0.00331	362.49	52.90	51.56	335.26	20.26	20.23	540.60	411.16	364.17
P1462_108_Zrn_A_1_POS_8	429.30	25.10	25.05	206Pb/238U	506	1.32	0.53093	0.03908	0.06886	0.00416	432.42	26.08	25.75	429.30	25.10	25.05	449.12	116.21	112.14
P1462_108_Zrn_A_1_POS_109	476.40	15.00	14.98	206Pb/238U	159	1.74	0.62363	0.07104	0.07670	0.00250	492.12	44.92	43.95	476.40	15.00	14.98	565.99	257.54	238.26
P1462_108_Zrn_A_1_POS_85	478.07	11.53	11.52	206Pb/238U	182	1.31	0.59500	0.04353	0.07698	0.00193	474.06	27.90	27.52	478.07	11.53	11.52	454.67	162.48	154.64
P1462_108_Zrn_A_1_POS_50	503.11	15.97	15.95	206Pb/238U	417	3.04	0.69003	0.04261	0.08117	0.00268	532.82	25.77	25.44	503.11	15.97	15.95	662.17	133.63	128.21
P1462_108_Zrn_A_1_POS_6	531.80	18.02	17.99	206Pb/238U	204	0.54	0.66419	0.05262	0.08599	0.00303	517.18	32.36	31.86	531.80	18.02	17.99	453.08	178.19	168.81
P1462_108_Zrn_A_1_POS_59	548.66	15.64	15.62	206Pb/238U	456	3.82	0.71335	0.04561	0.08884	0.00264	546.73	27.21	26.85	548.66	15.64	15.62	538.71	145.37	139.03
P1462_108_Zrn_A_1_POS_16	551.74	13.21	13.20	206Pb/238U	349	75.07	0.71446	0.03685	0.08936	0.00223	547.39	21.94	21.71	551.74	13.21	13.20	529.33	110.64	106.94
P1462_108_Zrn_A_1_POS_86	591.41	13.69	13.67	206Pb/238U	313	2.15	0.78634	0.04328	0.09608	0.00233	589.09	24.75	24.45	591.41	13.69	13.67	580.17	119.60	115.26
P1462_108_Zrn_A_1_POS_31	595.05	17.03	17.00	206Pb/238U	1647	8.23	0.81375	0.03825	0.09670	0.00289	604.56	21.53	21.30	595.05	17.03	17.00	640.38	94.46	91.72
P1462_108_Zrn_A_1_POS_10	644.59	15.87	15.85	206Pb/238U	323	0.96	0.88061	0.05202	0.10516	0.00272	641.31	28.28	27.89	644.59	15.87	15.85	629.79	124.51	119.81
P1462_108_Zrn_A_1_POS_96	744.50	21.99	21.96	206Pb/238U	1415	6.17	1.13603	0.06016	0.12242	0.00383	770.62	28.80	28.40	744.50	21.99	21.96	847.08	103.49	100.17
P1462_108_Zrn_A_1_POS_40	810.06	23.15	23.11	206Pb/238U	410	4.16	1.25297	0.06845	0.13390	0.00407	824.74	31.09	30.62	810.06	23.15	23.11	864.52	107.60	104.02
P1462_108_Zrn_A_1_POS_32	842.10	24.32	24.27	206Pb/238U	478	3.73	1.34370	0.07853	0.13955	0.00429	864.83	34.31	33.74	842.10	24.32	24.27	923.55	111.37	107.53
P1462_108_Zrn_A_1_POS_19	846.15	26.36	26.30	206Pb/238U	556	2.08	1.42908	0.07747	0.14026	0.00466	901.16	32.64	32.13	846.15	26.36	26.30	1038.59	107.91	104.27
P1462_108_Zrn_A_1_POS_49	913.46	29.81	29.38	207Pb/235Uc	1186	3.85	1.45868	0.07165	0.14564	0.00549	913.46	29.81	29.38	876.47	30.94	30.87	1003.95	99.33	96.25
P1462_108_Zrn_A_1_POS_52	926.92	21.36	21.32	206Pb/238U	603	8.69	1.44812	0.06249	0.15464	0.00382	909.09	26.09	25.75	926.92	21.36	21.32	866.03	84.80	82.56
P1462_108_Zrn_A_1_POS_55	951.02	21.98	21.94	206Pb/238U	1134	4.18	1.55743	0.06111	0.15897	0.00395	953.45	24.41	24.12	951.02	21.98	21.94	959.05	75.99	74.17
P1462_108_Zrn_A_1_POS_77	953.42	22.40	22.37	206Pb/238U	448	2.89	1.57642	0.07577	0.15940	0.00403	960.96	30.08	29.64	953.42	22.40	22.37	978.25	93.08	90.37

**Table 2.** U–Pb age data from the Cretaceous Colombian back–arc basin (*continued*).

Analysis name	Preferred age (Ma)	Sample GPS-599																	
		2–sigma	2 +sigma	Age type	[U] (ppm)	U/Th	207Pb/235U Ratio	2 sigma	206Pb/238U Ratio	2 sigma	207Pb/235Uc age (Ma)	2–sigma	2 +sigma	206Pb/238U age (Ma)	2–sigma	2 +sigma	207Pb/206Pb age (Ma)	2–sigma	2 +sigma
P1462_108_Zrn_A_1_POS_53	959.85	21.30	21.27	206Pb/238U	1765	4.57	1.65344	0.06558	0.16055	0.00383	990.87	25.25	24.94	959.85	21.30	21.27	1060.20	81.05	78.98
P1462_108_Zrn_A_1_POS_18	968.50	21.28	21.25	206Pb/238U	453	1.60	1.59620	0.07154	0.16211	0.00383	968.72	28.17	27.79	968.50	21.28	21.25	969.23	87.41	85.02
P1462_108_Zrn_A_1_POS_78	975.65	23.86	23.82	206Pb/238U	456	6.69	1.63569	0.08154	0.16340	0.00430	984.05	31.66	31.17	975.65	23.86	23.82	1002.83	93.78	91.03
P1462_108_Zrn_A_1_POS_4	977.27	21.51	21.48	206Pb/238U	126	2.78	1.58639	0.08501	0.16369	0.00388	964.88	33.65	33.10	977.27	21.51	21.48	936.76	109.68	105.95
P1462_108_Zrn_A_1_POS_36	1014.51	23.24	23.20	206Pb/238U	476	7.03	1.78090	0.07667	0.17044	0.00422	1038.51	28.19	27.80	1014.51	23.24	23.20	1089.37	83.51	81.31
P1462_108_Zrn_A_1_POS_38	1026.80	27.22	27.16	206Pb/238U	220	1.42	1.84574	0.10075	0.17267	0.00495	1061.91	36.27	35.63	1026.80	27.22	27.16	1134.79	105.32	101.84
P1462_108_Zrn_A_1_POS_104	1039.26	40.29	40.16	206Pb/238U	80	4.45	1.69584	0.11611	0.17494	0.00733	1006.96	44.21	43.27	1039.26	40.29	40.16	937.34	135.20	129.57
P1462_108_Zrn_A_1_POS_81	1039.82	23.82	23.77	206Pb/238U	322	2.17	1.82329	0.07458	0.17504	0.00434	1053.87	27.00	26.65	1039.82	23.82	23.77	1083.10	73.85	72.13
P1462_108_Zrn_A_1_POS_57	1068.73	21.02	20.99	206Pb/238U	458	3.89	1.91661	0.07202	0.18032	0.00385	1086.89	25.23	24.92	1068.73	21.02	20.99	1123.47	71.34	69.72
P1462_108_Zrn_A_1_POS_51	1070.67	25.05	25.00	206Pb/238U	594	6.34	1.90776	0.07959	0.18068	0.00458	1083.80	27.98	27.60	1070.67	25.05	25.00	1110.29	76.60	74.74
P1462_108_Zrn_A_1_POS_61	1074.60	30.30	29.86	207Pb/235Uc	534	11.79	1.88152	0.08536	0.17884	0.00668	1074.60	30.30	29.86	1060.61	36.56	36.46	1103.08	76.78	74.92
P1462_108_Zrn_A_1_POS_93	1101.35	28.08	28.01	206Pb/238U	203	2.03	1.97681	0.08485	0.18631	0.00516	1107.63	29.15	28.74	1101.35	28.08	28.01	1119.98	80.04	78.02
P1462_108_Zrn_A_1_POS_95	1110.56	29.96	29.89	206Pb/238U	123	1.98	2.04422	0.11201	0.18800	0.00552	1130.37	37.71	37.02	1110.56	29.96	29.89	1168.63	104.60	101.16
P1462_108_Zrn_A_1_POS_65	1134.85	26.66	26.60	206Pb/238U	407	4.27	2.08369	0.09555	0.19249	0.00493	1143.45	31.71	31.22	1134.85	26.66	26.60	1159.81	87.82	85.38
P1462_108_Zrn_A_1_POS_82	1138.34	42.91	42.03	207Pb/235Uc	260	2.69	2.06821	0.12832	0.19777	0.00857	1138.34	42.91	42.03	1163.35	46.23	46.06	1090.97	111.84	107.93
P1462_108_Zrn_A_1_POS_43	1141.89	32.50	31.99	207Pb/235Uc	197	1.98	2.07894	0.09776	0.19298	0.00669	1141.89	32.50	31.99	1137.49	36.22	36.12	1150.24	87.05	84.65
P1462_108_Zrn_A_1_POS_27	1148.48	38.16	38.05	206Pb/238U	89	1.67	2.03684	0.16471	0.19501	0.00706	1127.91	55.83	54.34	1148.48	38.16	38.05	1088.51	160.14	152.24
P1462_108_Zrn_A_1_POS_15	1149.44	36.92	36.81	206Pb/238U	155	2.23	2.13649	0.12878	0.19519	0.00683	1160.69	42.12	41.27	1149.44	36.92	36.81	1181.74	112.60	108.62
P1462_108_Zrn_A_1_POS_0	1150.48	29.15	29.09	206Pb/238U	174	2.66	2.16076	0.11870	0.19539	0.00540	1168.51	38.49	37.78	1150.48	29.15	29.09	1202.09	106.29	102.73
P1462_108_Zrn_A_1_POS_34	1151.08	40.84	40.71	206Pb/238U	109	2.23	2.12134	0.13060	0.19550	0.00756	1155.77	42.94	42.05	1151.08	40.84	40.71	1164.57	124.43	119.59
P1462_108_Zrn_A_1_POS_45	1151.48	27.57	27.51	206Pb/238U	273	2.50	2.10784	0.09662	0.19557	0.00511	1151.37	31.82	31.32	1151.48	27.57	27.51	1151.17	87.07	84.67
P1462_108_Zrn_A_1_POS_24	1152.77	23.94	23.89	206Pb/238U	396	2.00	2.14146	0.09601	0.19581	0.00444	1162.30	31.27	30.80	1152.77	23.94	23.89	1180.09	83.80	81.57
P1462_108_Zrn_A_1_POS_74	1160.31	45.88	45.72	206Pb/238U	70	2.10	2.20924	0.16730	0.19721	0.00851	1183.97	53.63	52.25	1160.31	45.88	45.72	1227.45	152.70	145.44
P1462_108_Zrn_A_1_POS_67	1167.61	44.32	44.17	206Pb/238U	89	3.03	2.12324	0.18411	0.19857	0.00823	1156.39	60.76	58.99	1167.61	44.32	44.17	1135.42	175.58	166.10
P1462_108_Zrn_A_1_POS_89	1167.61	24.09	24.05	206Pb/238U	196	2.50	2.18908	0.09068	0.19857	0.00447	1177.57	29.08	28.67	1167.61	24.09	24.05	1195.92	80.93	78.85
P1462_108_Zrn_A_1_POS_66	1167.81	26.60	26.55	206Pb/238U	194	2.14	2.07427	0.11203	0.19860	0.00494	1140.35	37.34	36.67	1167.81	26.60	26.55	1088.46	104.43	101.02
P1462_108_Zrn_A_1_POS_29	1179.11	41.41	41.28	206Pb/238U	89	3.06	2.16221	0.15108	0.20071	0.00770	1168.98	49.10	47.94	1179.11	41.41	41.28	1150.26	130.21	124.92
P1462_108_Zrn_A_1_POS_108	1179.45	22.96	22.70	207Pb/235Uc	672	1.70	2.19499	0.07184	0.20234	0.00435	1179.45	22.96	22.70	1187.87	23.32	23.28	1164.05	55.96	54.96
P1462_108_Zrn_A_1_POS_62	1183.25	23.52	23.48	206Pb/238U	279	4.02	2.19715	0.10024	0.20148	0.00438	1180.14	32.09	31.59	1183.25	23.52	23.48	1174.44	90.28	87.70
P1462_108_Zrn_A_1_POS_88	1189.85	33.79	33.70	206Pb/238U	253	2.51	2.18841	0.11849	0.20271	0.00630	1177.36	38.09	37.39	1189.85	33.79	33.70	1154.47	97.96	94.94
P1462_108_Zrn_A_1_POS_100	1192.14	21.15	20.94	207Pb/235Uc	1555	3.73	2.23517	0.06705	0.20042	0.00407	1192.14	21.15	20.94	1177.60	21.90	21.86	1218.61	55.06	54.09
P1462_108_Zrn_A_1_POS_64	1248.09	27.67	27.61	206Pb/238U	127	3.47	2.38384	0.13998	0.21362	0.00520	1237.76	42.44	41.57	1248.09	27.67	27.61	1219.83	114.53	110.40
P1462_108_Zrn_A_1_POS_68	1301.15	32.42	32.34	206Pb/238U	135	2.08	2.62374	0.14653	0.22365	0.00615	1307.31	41.48	40.65	1301.15	32.42	32.34	1317.45	108.76	105.02
P1462_108_Zrn_A_1_POS_84	1305.83	32.29	31.79	207Pb/235Uc	158	0.70	2.61845	0.11417	0.22250	0.00641	1305.83	32.29	31.79	1295.05	33.82	33.73	1323.58	76.34	74.47
P1462_108_Zrn_A_1_POS_83	1328.32	228.83	205.64	207Pb/235Uc	23	1.44	2.69950	0.78847	0.22633	0.06178	1328.32	228.83	205.64	1315.22	328.93	320.75	1349.52	341.86	307.31
P1462_108_Zrn_A_1_POS_9	1363.21	29.06	28.99	206Pb/238U	767	3.29	2.79705	0.10895	0.23549	0.00556	1354.75	29.35	28.93	1363.21	29.06	28.99	1341.42	67.62	66.15
P1462_108_Zrn_A_1_POS_107	1443.48	39.11	38.37	207Pb/235Uc	122	2.50	3.14381	0.15809	0.25312	0.01151	1443.48	39.11	38.37	1454.54	59.33	59.06	1427.23	98.51	95.41
P1462_108_Zrn_A_1_POS_69	1443.85	34.47	33.89	207Pb/235Uc	239	2.16	3.14528	0.13953	0.24886	0.00772	1443.85	34.47	33.89	1432.62	39.91	39.79	1460.42	71.18	69.54
P1462_108_Zrn_A_1_POS_20	1449.92	78.75	75.81	207Pb/235Uc	84	2.38	3.17014	0.31725	0.24383	0.01941	1449.92	78.75	75.81	1406.56	100.98	100.19	1514.07	138.90	132.79
P1462_108_Zrn_A_1_POS_87	1478.04	66.63	64.51	207Pb/235Uc	64	1.32	3.28726	0.27675	0.24702	0.01308	1478.04	66.63	64.51	1423.11	67.79	67.44	1557.81	134.38	128.63
P1462_108_Zrn_A_1_POS_70	1494.62	34.62	34.53	206Pb/238U	155	1.89	3.20408	0.19002	0.26093	0.00676	1458.15	46.42	45.38	1494.62	34.62	34.53	1405.40	113.60	109.50
P1462_108_Zrn_A_1_POS_21	1507.93	29.98	29.91	206Pb/238U	403	2.92	3.52977	0.14212	0.26354	0.00587	1533.91	32.11	31.61	1507.93	29.98	29.91	1569.91	72.19	70.50

**Table 2.** U–Pb age data from the Cretaceous Colombian back–arc basin (*continued*).

Sample GPS–599																			
Analysis name	Preferred age (Ma)	2–sigma	2+sigma	Age type	[U] (ppm)	U/Th	207Pb/235U Ratio	2 sigma	206Pb/238U Ratio	2 sigma	207Pb/235Uc age (Ma)	2–sigma	2+sigma	206Pb/238U age (Ma)	2–sigma	2+sigma	207Pb/206Pb age (Ma)	2–sigma	2+sigma
P1462_108_Zrn_A_1_POS_103	1538.63	25.81	25.49	207Pb/235Uc	236	4.12	3.55088	0.11495	0.26736	0.00542	1538.63	25.81	25.49	1527.38	27.58	27.52	1554.13	56.16	55.13
P1462_108_Zrn_A_1_POS_5	1562.93	35.78	35.68	206Pb/238U	174	1.39	3.69555	0.16899	0.27437	0.00706	1570.41	36.88	36.22	1562.93	35.78	35.68	1580.47	82.93	80.70
P1462_108_Zrn_A_1_POS_23	1615.37	43.83	42.90	207Pb/235Uc	1172	1.58	3.90814	0.20959	0.27072	0.01059	1615.37	43.83	42.90	1544.43	53.83	53.60	1709.09	82.78	80.54
P1462_108_Zrn_A_1_POS_12	1668.18	38.68	37.96	207Pb/235Uc	239	2.15	4.17018	0.19511	0.28746	0.00809	1668.18	38.68	37.96	1628.82	40.59	40.46	1718.07	82.08	79.88
P1462_108_Zrn_A_1_POS_33	1681.53	34.39	33.81	207Pb/235Uc	191	1.40	4.23860	0.17592	0.29434	0.00776	1681.53	34.39	33.81	1663.19	38.71	38.59	1704.49	69.17	67.60
P1462_108_Zrn_A_1_POS_76	1683.23	51.34	50.07	207Pb/235Uc	118	1.52	4.24739	0.26198	0.28960	0.01090	1683.23	51.34	50.07	1639.55	54.60	54.37	1738.11	103.97	100.47
P1462_108_Zrn_A_1_POS_97	1703.21	31.41	30.93	207Pb/235Uc	198	1.07	4.35163	0.16429	0.29516	0.00886	1703.21	31.41	30.93	1667.29	44.18	44.03	1747.68	72.62	70.90
P1462_108_Zrn_A_1_POS_99	1705.33	26.55	26.21	207Pb/235Uc	699	4.49	4.36283	0.13933	0.29604	0.00654	1705.33	26.55	26.21	1671.64	32.59	32.51	1746.97	56.42	55.38
P1462_108_Zrn_A_1_POS_41	1725.17	33.10	32.56	207Pb/235Uc	189	1.50	4.46864	0.17680	0.29820	0.00850	1725.17	33.10	32.56	1682.40	42.30	42.16	1777.45	67.02	65.54
P1462_108_Zrn_A_1_POS_90	1829.85	34.75	34.16	207Pb/235Uc	338	1.21	5.06253	0.20570	0.32579	0.01088	1829.85	34.75	34.16	1817.95	53.00	52.78	1843.41	57.90	56.79
P1462_108_Zrn_A_1_POS_58	1938.36	36.79	36.14	207Pb/235Uc	211	1.95	5.74631	0.24225	0.35064	0.01048	1938.36	36.79	36.14	1937.67	50.13	49.94	1939.10	63.45	62.11
P1462_108_Zrn_A_1_POS_63	1983.71	36.16	35.53	207Pb/235Uc	129	1.04	6.05441	0.24903	0.36868	0.00984	1983.71	36.16	35.53	2023.17	46.43	46.26	1942.82	67.36	65.85
P1462_108_Zrn_A_1_POS_17	2535.12	53.06	51.71	207Pb/235Uc	95	1.22	11.14257	0.62636	0.46647	0.01735	2535.12	53.06	51.71	2468.07	76.47	76.02	2589.23	91.38	88.56
Sample GPS–602																			
Analysis name	Preferred age (Ma)	2–sigma	2+sigma	Age type	[U] (ppm)	U/Th	207Pb/235U Ratio	2 sigma	206Pb/238U Ratio	2 sigma	207Pb/235Uc age (Ma)	2–sigma	2+sigma	206Pb/238U age (Ma)	2–sigma	2+sigma	207Pb/206Pb age (Ma)	2–sigma	2+sigma
P1462_086_Zrn_A_1_MBD_71	118.27	24.14	23.85	207Pb/235Uc	134	1.50	0.12354	0.02655	0.01729	0.00084	118.27	24.14	23.85	110.50	5.35	5.35	277.57	530.58	455.92
P1462_086_Zrn_A_1_MBD_10	124.30	9.90	9.85	207Pb/235Uc	590	1.77	0.13023	0.01099	0.01923	0.00059	124.30	9.90	9.85	122.79	3.71	3.71	153.36	204.98	192.89
P1462_086_Zrn_A_1_MBD_100	125.50	11.68	11.67	206Pb/238U	165	1.77	0.13866	0.01905	0.01966	0.00185	131.85	17.06	16.92	125.50	11.68	11.67	247.88	317.16	288.95
P1462_086_Zrn_A_1_MBD_8	134.55	7.17	7.16	206Pb/238U	85	1.87	0.13817	0.03044	0.02109	0.00113	131.41	27.33	26.97	134.55	7.17	7.16	75.06	150.13	486.33
P1462_086_Zrn_A_1_MBD_32	138.39	6.99	6.99	206Pb/238U	140	2.18	0.15194	0.01888	0.02170	0.00111	143.62	16.71	16.58	138.39	6.99	6.99	230.98	315.36	287.49
P1462_086_Zrn_A_1_MBD_60	139.36	4.80	4.80	206Pb/238U	539	1.37	0.14471	0.01335	0.02185	0.00076	137.23	11.87	11.80	139.36	4.80	4.80	100.51	201.03	205.08
P1462_086_Zrn_A_1_MBD_34	140.03	6.38	6.38	206Pb/238U	145	3.08	0.15960	0.01941	0.02196	0.00101	150.35	17.07	16.92	140.03	6.38	6.38	316.40	293.64	269.20
P1462_086_Zrn_A_1_MBD_84	140.07	8.78	8.77	206Pb/238U	202	3.52	0.14092	0.01119	0.02197	0.00139	133.86	9.98	9.93	140.07	8.78	8.77	25.12	50.24	194.96
P1462_086_Zrn_A_1_MBD_77	141.54	4.47	4.47	206Pb/238U	402	1.78	0.15161	0.01049	0.02220	0.00071	143.33	9.27	9.23	141.54	4.47	4.47	173.22	163.06	155.31
P1462_086_Zrn_A_1_MBD_103	143.60	6.32	6.32	206Pb/238U	1289	0.89	0.15307	0.01079	0.02253	0.00100	144.62	9.52	9.48	143.60	6.32	6.32	161.42	163.00	155.26
P1462_086_Zrn_A_1_MBD_5	145.43	8.20	8.19	206Pb/238U	140	0.89	0.15747	0.02423	0.02282	0.00130	148.49	21.37	21.15	145.43	8.20	8.19	197.66	380.28	340.55
P1462_086_Zrn_A_1_MBD_49	147.22	3.75	3.75	206Pb/238U	1208	0.97	0.16113	0.00877	0.02310	0.00060	151.70	7.68	7.65	147.22	3.75	3.75	222.19	127.73	122.91
P1462_086_Zrn_A_1_MBD_2	150.05	7.05	7.05	206Pb/238U	272	1.95	0.15189	0.02112	0.02355	0.00112	143.58	18.70	18.53	150.05	7.05	7.05	37.97	75.93	311.55
P1462_086_Zrn_A_1_MBD_67	151.41	9.79	9.79	206Pb/238U	68	4.07	0.15314	0.03072	0.02376	0.00155	144.68	27.24	26.87	151.41	9.79	9.79	35.72	71.43	463.37
P1462_086_Zrn_A_1_MBD_52	151.85	5.64	5.63	206Pb/238U	185	2.85	0.16444	0.02361	0.02384	0.00089	154.59	20.69	20.49	151.85	5.64	5.63	196.67	352.30	317.94
P1462_086_Zrn_A_1_MBD_91	153.75	8.29	8.28	206Pb/238U	132	1.65	0.16621	0.01985	0.02414	0.00132	156.12	17.36	17.21	153.75	8.29	8.28	192.33	296.17	271.51
P1462_086_Zrn_A_1_MBD_79	156.66	4.61	4.61	206Pb/238U	548	0.82	0.16665	0.01525	0.02460	0.00073	156.51	13.32	13.23	156.66	4.61	4.61	154.23	219.32	205.54
P1462_086_Zrn_A_1_MBD_27	158.87	8.78	8.77	206Pb/238U	86	3.36	0.19392	0.03620	0.02495	0.00139	179.97	31.02	30.55	158.87	8.78	8.77	466.98	451.30	395.53
P1462_086_Zrn_A_1_MBD_93	162.24	6.98	6.97	206Pb/238U	186	2.53	0.18110	0.01952	0.02549	0.00111	169.01	16.85	16.72	162.24	6.98	6.97	264.81	262.17	242.58
P1462_086_Zrn_A_1_MBD_6	163.92	5.29	5.29	206Pb/238U	185	1.93	0.17103	0.01824	0.02575	0.00084	160.31	15.87	15.75	163.92	5.29	5.29	107.37	214.74	246.07
P1462_086_Zrn_A_1_MBD_97	169.23	4.94	4.94	206Pb/238U	278	2.72	0.18466	0.02950	0.02660	0.00079	172.06	25.44	25.13	169.23	4.94	4.94	211.18	391.18	349.23
P1462_086_Zrn_A_1_MBD_53	169.37	5.61	5.61	206Pb/238U	266	1.81	0.18769	0.02368	0.02662	0.00089	174.66	20.35	20.14	169.37	5.61	5.61	246.85	301.44	275.85
P1462_086_Zrn_A_1_MBD_33	171.14	4.20	4.20	206Pb/238U	655	1.61	0.17884	0.01338	0.02690	0.00067	167.06	11.56	11.49	171.14	4.20	4.20	109.74	181.66	172.13
P1462_086_Zrn_A_1_MBD_15	176.31	6.49	6.48	206Pb/238U	112	0.90	0.20116	0.02947	0.02773	0.00103	186.11	25.06	24.76	176.31	6.49	6.48	312.27	352.63	317.97
P1462_086_Zrn_A_1_MBD_13	176.36	7.14	7.14	206Pb/238U	353	1.15	0.19494	0.01772	0.02774	0.00114	180.84	15.11	15.00	176.36	7.14	7.14	239.75	231.57	216.17



**Table 2.** U–Pb age data from the Cretaceous Colombian back–arc basin (*continued*).

Analysis name	Preferred age (Ma)	Sample GPS-602																	
		2–sigma	2 +sigma	Age type	[U] (ppm)	U/Th	207Pb/235U Ratio	2 sigma	206Pb/238U Ratio	2 sigma	207Pb/235Uc age (Ma)	2–sigma	2 +sigma	206Pb/238U age (Ma)	2–sigma	2 +sigma	207Pb/206Pb age (Ma)	2–sigma	2 +sigma
P1462_086_Zrn_A_1_MBD_55	178.61	6.16	6.16	206Pb/238U	252	0.99	0.19209	0.02253	0.02809	0.00098	178.41	19.28	19.10	178.61	6.16	6.16	175.79	287.50	264.24
P1462_086_Zrn_A_1_MBD_72	180.87	11.08	11.07	206Pb/238U	107	0.81	0.20281	0.02654	0.02846	0.00177	187.50	22.53	22.29	180.87	11.08	11.07	271.79	336.09	304.54
P1462_086_Zrn_A_1_MBD_36	181.13	7.46	7.45	206Pb/238U	132	0.99	0.20627	0.02802	0.02850	0.00119	190.42	23.72	23.45	181.13	7.46	7.45	307.23	327.61	297.49
P1462_086_Zrn_A_1_MBD_24	181.86	7.82	7.82	206Pb/238U	229	0.99	0.18925	0.02409	0.02861	0.00125	175.99	20.67	20.46	181.86	7.82	7.82	97.78	195.55	296.96
P1462_086_Zrn_A_1_MBD_109	183.99	15.39	15.37	206Pb/238U	380	0.92	0.21563	0.02376	0.02895	0.00246	198.27	19.94	19.75	183.99	15.39	15.37	371.71	227.65	212.63
P1462_086_Zrn_A_1_MBD_62	184.11	5.76	5.76	206Pb/238U	323	1.29	0.19933	0.02021	0.02897	0.00092	184.56	17.18	17.04	184.11	5.76	5.76	190.29	245.45	228.28
P1462_086_Zrn_A_1_MBD_39	185.76	6.47	6.47	206Pb/238U	131	1.60	0.21526	0.03817	0.02924	0.00103	197.96	32.15	31.65	185.76	6.47	6.47	345.91	430.61	379.91
P1462_086_Zrn_A_1_MBD_75	186.57	7.07	7.07	206Pb/238U	437	1.05	0.20297	0.01157	0.02937	0.00113	187.64	9.79	9.74	186.57	7.07	7.07	201.06	125.30	120.66
P1462_086_Zrn_A_1_MBD_29	187.10	3.88	3.88	206Pb/238U	4804	1.04	0.20525	0.00630	0.02945	0.00062	189.56	5.32	5.30	187.10	3.88	3.88	220.30	69.30	67.86
P1462_086_Zrn_A_1_MBD_9	187.43	9.39	9.39	206Pb/238U	118	1.84	0.20732	0.02378	0.02950	0.00150	191.30	20.09	19.90	187.43	9.39	9.39	239.37	270.81	249.99
P1462_086_Zrn_A_1_MBD_78	187.79	6.30	6.30	206Pb/238U	165	1.38	0.20756	0.01975	0.02956	0.00101	191.51	16.68	16.54	187.79	6.30	6.30	237.57	225.99	211.31
P1462_086_Zrn_A_1_MBD_107	188.24	9.31	9.30	206Pb/238U	105	1.08	0.21888	0.03907	0.02963	0.00149	200.98	32.81	32.29	188.24	9.31	9.30	353.14	433.29	381.97
P1462_086_Zrn_A_1_MBD_35	188.28	4.10	4.10	206Pb/238U	5049	1.04	0.20317	0.00725	0.02964	0.00066	187.80	6.12	6.11	188.28	4.10	4.10	181.82	80.24	78.31
P1462_086_Zrn_A_1_MBD_73	188.84	9.85	9.84	206Pb/238U	113	0.89	0.20946	0.03375	0.02973	0.00157	193.10	28.53	28.13	188.84	9.85	9.84	245.53	399.01	355.37
P1462_086_Zrn_A_1_MBD_14	191.89	7.89	7.88	206Pb/238U	142	2.23	0.23088	0.04042	0.03021	0.00126	210.93	33.62	33.07	191.89	7.89	7.88	429.27	417.47	369.41
P1462_086_Zrn_A_1_MBD_41	192.97	16.56	16.54	206Pb/238U	59	2.02	0.22969	0.04455	0.03039	0.00265	209.94	37.13	36.46	192.97	16.56	16.54	404.90	495.99	429.67
P1462_086_Zrn_A_1_MBD_98	194.48	8.62	8.62	206Pb/238U	145	1.48	0.20532	0.02571	0.03063	0.00138	189.62	21.77	21.54	194.48	8.62	8.62	129.50	259.00	286.25
P1462_086_Zrn_A_1_MBD_57	194.79	9.86	9.85	206Pb/238U	104	0.34	0.21515	0.02863	0.03068	0.00158	197.86	24.07	23.79	194.79	9.86	9.85	234.67	329.49	299.18
P1462_086_Zrn_A_1_MBD_18	196.29	8.19	8.18	206Pb/238U	82	1.48	0.20958	0.02764	0.03092	0.00131	193.20	23.34	23.07	196.29	8.19	8.18	155.69	311.38	296.20
P1462_086_Zrn_A_1_MBD_82	197.12	11.14	11.13	206Pb/238U	78	1.44	0.21750	0.05593	0.03105	0.00178	199.82	47.19	46.12	197.12	11.14	11.13	231.82	463.65	550.29
P1462_086_Zrn_A_1_MBD_42	197.89	4.83	4.83	206Pb/238U	899	1.05	0.20911	0.01649	0.03117	0.00077	192.81	13.89	13.80	197.89	4.83	4.83	131.06	190.10	179.67
P1462_086_Zrn_A_1_MBD_81	198.12	5.37	5.36	206Pb/238U	1376	0.58	0.22199	0.01312	0.03121	0.00086	203.56	10.93	10.87	198.12	5.37	5.36	267.11	133.99	128.68
P1462_086_Zrn_A_1_MBD_50	205.60	8.86	8.85	206Pb/238U	110	1.79	0.22040	0.03741	0.03241	0.00142	202.24	31.37	30.89	205.60	8.86	8.85	163.25	326.49	379.76
P1462_086_Zrn_A_1_MBD_83	207.85	9.30	9.29	206Pb/238U	102	1.58	0.23484	0.03496	0.03277	0.00149	214.19	28.95	28.54	207.85	9.30	9.29	284.45	354.01	319.14
P1462_086_Zrn_A_1_MBD_45	208.13	7.36	7.36	206Pb/238U	299	1.58	0.22950	0.02022	0.03281	0.00118	209.78	16.76	16.63	208.13	7.36	7.36	228.33	212.50	199.47
P1462_086_Zrn_A_1_MBD_44	259.78	8.92	8.92	206Pb/238U	360	1.52	0.30315	0.02125	0.04112	0.00144	268.86	16.62	16.49	259.78	8.92	8.92	348.69	154.28	147.24
P1462_086_Zrn_A_1_MBD_56	261.91	8.22	8.21	206Pb/238U	483	3.08	0.28661	0.01487	0.04147	0.00133	255.89	11.77	11.70	261.91	8.22	8.21	201.09	127.80	122.98
P1462_086_Zrn_A_1_MBD_7	264.64	12.34	12.33	206Pb/238U	158	2.28	0.31927	0.03099	0.04191	0.00199	281.34	23.99	23.71	264.64	12.34	12.33	422.53	237.15	220.84
P1462_086_Zrn_A_1_MBD_16	265.95	7.98	7.98	206Pb/238U	239	1.30	0.28689	0.02269	0.04212	0.00129	256.11	17.98	17.82	265.95	7.98	7.98	166.99	185.06	175.14
P1462_086_Zrn_A_1_MBD_63	272.28	6.91	6.90	206Pb/238U	612	1.12	0.30839	0.01693	0.04314	0.00112	272.93	13.18	13.10	272.28	6.91	6.90	278.52	124.20	119.62
P1462_086_Zrn_A_1_MBD_101	273.36	8.63	8.62	206Pb/238U	344	3.55	0.31308	0.01602	0.04332	0.00140	276.56	12.42	12.35	273.36	8.63	8.62	303.76	114.46	110.55
P1462_086_Zrn_A_1_MBD_86	275.07	10.17	10.16	206Pb/238U	197	1.39	0.31853	0.02236	0.04359	0.00165	280.77	17.29	17.15	275.07	10.17	10.16	328.57	154.09	147.08
P1462_086_Zrn_A_1_MBD_92	281.94	10.31	10.30	206Pb/238U	97	1.70	0.32704	0.04332	0.04471	0.00167	287.30	33.42	32.88	281.94	10.31	10.30	331.14	318.22	289.69
P1462_086_Zrn_A_1_MBD_0	283.05	6.46	6.46	206Pb/238U	675	2.15	0.32188	0.01581	0.04489	0.00105	283.35	12.18	12.11	283.05	6.46	6.46	285.84	111.12	107.44
P1462_086_Zrn_A_1_MBD_87	305.80	14.85	14.83	206Pb/238U	131	1.10	0.34052	0.04202	0.04858	0.00241	297.57	32.08	31.58	305.80	14.85	14.83	233.49	291.32	267.37
P1462_086_Zrn_A_1_MBD_58	311.43	10.41	10.41	206Pb/238U	340	0.89	0.36551	0.02951	0.04950	0.00169	316.32	22.06	21.82	311.43	10.41	10.41	352.50	182.76	172.96
P1462_086_Zrn_A_1_MBD_11	393.05	11.32	11.31	206Pb/238U	407	2.28	0.47933	0.02414	0.06287	0.00187	397.61	16.64	16.50	393.05	11.32	11.31	424.20	111.56	107.82
P1462_086_Zrn_A_1_MBD_47	464.18	10.56	10.55	206Pb/238U	1094	4.71	0.56486	0.02189	0.07466	0.00176	454.69	14.25	14.16	464.18	10.56	10.55	406.97	82.93	80.85
P1462_086_Zrn_A_1_MBD_66	476.09	15.05	15.03	206Pb/238U	157	2.92	0.61103	0.04655	0.07665	0.00251	484.21	29.55	29.13	476.09	15.05	15.03	522.82	175.32	166.19
P1462_086_Zrn_A_1_MBD_43	578.44	15.29	15.28	206Pb/238U	396	3.72	0.73783	0.03593	0.09388	0.00259	561.14	21.10	20.88	578.44	15.29	15.28	491.59	107.22	103.74
P1462_086_Zrn_A_1_MBD_21	585.65	17.18	17.16	206Pb/238U	270	3.10	0.79654	0.04751	0.09510	0.00292	594.88	27.03	26.68	585.65	17.18	17.16	630.20	136.01	130.42
P1462_086_Zrn_A_1_MBD_23	587.76	13.48	13.47	206Pb/238U	156	2.17	0.76089	0.04976	0.09546	0.00229	574.52	28.90	28.49	587.76	13.48	13.47	522.48	145.61	139.25

**Table 2.** U–Pb age data from the Cretaceous Colombian back–arc basin (*continued*).

Sample GPS–602																			
Analysis name	Preferred age (Ma)	2 –sigma	2 +sigma	Age type	[U] (ppm)	U/Th	207Pb/235U Ratio	2 sigma	206Pb/238U Ratio	2 sigma	207Pb/235Uc age (Ma)	2 –sigma	2 +sigma	206Pb/238U age (Ma)	2 –sigma	2 +sigma	207Pb/206Pb age (Ma)	2 –sigma	2 +sigma
P1462_086_Zrn_A_1_MBD_4	589.13	20.50	20.47	206Pb/238U	148	1.53	0.74359	0.04385	0.09569	0.00348	564.50	25.70	25.38	589.13	20.50	20.47	466.46	132.66	127.39
P1462_086_Zrn_A_1_MBD_1	591.40	13.68	13.67	206Pb/238U	410	96.07	0.78837	0.03429	0.09608	0.00233	590.25	19.56	19.38	591.40	13.68	13.67	585.81	90.52	88.02
P1462_086_Zrn_A_1_MBD_76	721.44	17.85	17.82	206Pb/238U	350	3.76	1.04952	0.04706	0.11842	0.00309	728.65	23.45	23.18	721.44	17.85	17.82	750.87	92.15	89.53
P1462_086_Zrn_A_1_MBD_12	797.81	20.97	20.94	206Pb/238U	803	4.81	1.24679	0.05175	0.13174	0.00368	821.96	23.52	23.25	797.81	20.97	20.94	887.87	87.98	85.57
P1462_086_Zrn_A_1_MBD_89	958.71	28.09	27.71	207Pb/235Uc	268	3.70	1.57071	0.07064	0.16233	0.00515	958.71	28.09	27.71	969.71	28.59	28.52	933.53	84.65	82.41
P1462_086_Zrn_A_1_MBD_106	983.33	28.49	28.43	206Pb/238U	186	3.25	1.62321	0.08082	0.16479	0.00514	979.23	31.53	31.05	983.33	28.49	28.43	970.04	93.85	91.10
P1462_086_Zrn_A_1_MBD_70	1005.18	24.27	24.22	206Pb/238U	236	1.06	1.71058	0.06851	0.16874	0.00440	1012.50	25.83	25.50	1005.18	24.27	24.22	1028.38	77.30	75.42
P1462_086_Zrn_A_1_MBD_65	1009.81	33.14	33.05	206Pb/238U	65	4.09	1.65686	0.11228	0.16958	0.00600	992.18	43.37	42.46	1009.81	33.14	33.05	953.39	135.86	130.18
P1462_086_Zrn_A_1_MBD_96	1017.95	24.07	23.79	207Pb/235Uc	358	2.69	1.72517	0.06422	0.17317	0.00470	1017.95	24.07	23.79	1029.57	25.87	25.82	993.05	66.66	65.26
P1462_086_Zrn_A_1_MBD_85	1042.70	34.25	34.16	206Pb/238U	166	2.21	1.76597	0.10217	0.17557	0.00624	1033.04	37.86	37.16	1042.70	34.25	34.16	1012.65	119.48	115.05
P1462_086_Zrn_A_1_MBD_30	1051.61	30.39	30.32	206Pb/238U	184	1.14	1.82919	0.08838	0.17719	0.00554	1055.99	31.97	31.47	1051.61	30.39	30.32	1065.06	87.94	85.51
P1462_086_Zrn_A_1_MBD_54	1058.39	37.03	36.92	206Pb/238U	67	2.64	1.91224	0.15280	0.17843	0.00676	1085.37	53.99	52.59	1058.39	37.03	36.92	1139.92	157.74	150.05
P1462_086_Zrn_A_1_MBD_40	1072.46	36.72	36.62	206Pb/238U	120	4.16	1.89245	0.11799	0.18100	0.00672	1078.44	41.85	41.00	1072.46	36.72	36.62	1090.56	125.84	120.91
P1462_086_Zrn_A_1_MBD_20	1077.93	30.60	30.52	206Pb/238U	198	0.61	1.97397	0.09954	0.18201	0.00560	1106.66	34.27	33.70	1077.93	30.60	30.52	1163.57	101.71	98.45
P1462_086_Zrn_A_1_MBD_94	1095.79	39.01	38.89	206Pb/238U	66	3.47	1.92351	0.11202	0.18529	0.00716	1089.29	39.28	38.54	1095.79	39.01	38.89	1076.31	103.95	100.56
P1462_086_Zrn_A_1_MBD_25	1136.61	53.86	53.64	206Pb/238U	22	3.76	1.96695	0.17293	0.19281	0.00995	1104.27	60.06	58.34	1136.61	53.86	53.64	1041.10	162.62	154.50
P1462_086_Zrn_A_1_MBD_51	1143.26	26.39	26.34	206Pb/238U	224	2.18	2.13977	0.09823	0.19405	0.00488	1161.75	32.02	31.52	1143.26	26.39	26.34	1196.39	87.37	84.95
P1462_086_Zrn_A_1_MBD_28	1151.84	32.50	32.42	206Pb/238U	129	2.72	2.17888	0.10655	0.19564	0.00602	1174.32	34.32	33.75	1151.84	32.50	32.42	1216.00	100.05	96.89
P1462_086_Zrn_A_1_MBD_99	1162.06	24.59	24.30	207Pb/235Uc	1223	4.22	2.14072	0.07562	0.20178	0.00525	1162.06	24.59	24.30	1184.87	28.21	28.15	1119.78	63.73	62.44
P1462_086_Zrn_A_1_MBD_48	1163.74	32.21	32.13	206Pb/238U	101	4.56	2.24106	0.12795	0.19785	0.00598	1193.99	40.49	39.69	1163.74	32.21	32.13	1249.17	108.96	105.22
P1462_086_Zrn_A_1_MBD_61	1169.17	71.35	70.96	206Pb/238U	17	3.70	2.03685	0.29535	0.19886	0.01323	1127.91	101.23	96.43	1169.17	71.35	70.96	1049.31	285.76	261.58
P1462_086_Zrn_A_1_MBD_31	1173.30	27.54	27.18	207Pb/235Uc	570	2.16	2.17568	0.08556	0.20288	0.00561	1173.30	27.54	27.18	1190.76	30.09	30.02	1141.23	75.90	74.08
P1462_086_Zrn_A_1_MBD_26	1175.76	31.01	30.94	206Pb/238U	80	2.83	2.08637	0.11907	0.20008	0.00577	1144.33	39.56	38.80	1175.76	31.01	30.94	1085.24	112.39	108.44
P1462_086_Zrn_A_1_MBD_90	1226.46	30.60	30.15	207Pb/235Uc	191	4.40	2.34639	0.10009	0.21208	0.00666	1226.46	30.60	30.15	1239.89	35.49	35.40	1202.93	79.92	77.89
P1462_086_Zrn_A_1_MBD_17	1227.65	30.53	30.46	206Pb/238U	85	2.87	2.36579	0.11403	0.20978	0.00572	1232.33	34.70	34.11	1227.65	30.53	30.46	1240.54	96.19	93.26
P1462_086_Zrn_A_1_MBD_95	1235.19	40.89	40.77	206Pb/238U	50	3.71	2.18822	0.15010	0.21120	0.00767	1177.30	48.38	47.25	1235.19	40.89	40.77	1072.39	139.10	133.10
P1462_086_Zrn_A_1_MBD_88	1237.26	36.22	35.59	207Pb/235Uc	67	3.16	2.38215	0.11959	0.21775	0.00848	1237.26	36.22	35.59	1269.99	44.96	44.80	1180.69	90.25	87.67
P1462_086_Zrn_A_1_MBD_74	1262.91	33.94	33.38	207Pb/235Uc	193	2.53	2.46868	0.11497	0.21083	0.00618	1262.91	33.94	33.38	1233.23	32.94	32.86	1313.82	84.94	82.64
P1462_086_Zrn_A_1_MBD_104	1265.58	35.62	35.52	206Pb/238U	76	3.64	2.34153	0.13996	0.21692	0.00671	1224.99	42.98	42.09	1265.58	35.62	35.52	1154.21	116.64	112.38
P1462_086_Zrn_A_1_MBD_69	1325.57	30.79	30.72	206Pb/238U	253	2.49	2.72078	0.12772	0.22830	0.00586	1334.15	35.16	34.56	1325.57	30.79	30.72	1347.93	90.63	88.01
P1462_086_Zrn_A_1_MBD_105	1412.05	78.69	78.21	206Pb/238U	24	4.60	2.63233	0.27519	0.24489	0.01515	1309.72	78.42	75.51	1412.05	78.69	78.21	1145.86	213.37	199.53
P1462_086_Zrn_A_1_MBD_59	1778.50	28.33	27.94	207Pb/235Uc	1010	8.62	4.76357	0.15969	0.31438	0.00846	1778.50	28.33	27.94	1762.22	41.57	41.43	1797.66	53.73	52.78
P1462_086_Zrn_A_1_MBD_3	1958.23	28.51	28.12	207Pb/235Uc	231	4.94	5.87961	0.19183	0.35575	0.00784	1958.23	28.51	28.12	1962.01	37.33	37.22	1954.23	52.13	51.23
P1462_086_Zrn_A_1_MBD_64	2170.56	34.56	33.98	207Pb/235Uc	111	2.25	7.47970	0.28618	0.40259	0.01080	2170.56	34.56	33.98	2180.97	49.74	49.55	2160.73	60.01	58.80
P1462_086_Zrn_A_1_MBD_102	3040.12	39.40	38.65	207Pb/235Uc	66	2.23	18.96659	0.76728	0.61482	0.01692	3040.12	39.40	38.65	3089.27	67.73	67.38	3007.79	59.31	58.09

  

Sample GPS–619																			
Analysis name	Preferred age (Ma)	2 –sigma	2 +sigma	Age type	[U] (ppm)	U/Th	207Pb/235U Ratio	2 sigma	206Pb/238U Ratio	2 sigma	207Pb/235Uc age (Ma)	2 –sigma	2 +sigma	206Pb/238U age (Ma)	2 –sigma	2 +sigma	207Pb/206Pb age (Ma)	2 –sigma	2 +sigma
P1462_109_Zrn_A_1_POS_105	128.71	12.60	12.59	206Pb/238U	62	1.40	0.15295	0.05176	0.02017	0.00199	144.52	46.10	45.08	128.71	12.60	12.59	412.52	825.05	698.13
P1462_109_Zrn_A_1_POS_27	130.91	8.35	8.34	206Pb/238U	706	1.29	0.13821	0.01064	0.02051	0.00132	131.45	9.51	9.47	130.91	8.35	8.34	141.18	183.64	173.88
P1462_109_Zrn_A_1_POS_10	132.02	6.90	6.90	206Pb/238U	488	1.65	0.14279	0.01440	0.02069	0.00109	135.52	12.84	12.75	132.02	6.90	6.90	197.38	251.59	233.57

**Table 2.** U–Pb age data from the Cretaceous Colombian back–arc basin (*continued*).

Analysis name	Preferred age (Ma)	Sample GPS-619																	
		2–sigma	2 +sigma	Age type	[U] (ppm)	U/Th	207Pb/235U Ratio	2 sigma	206Pb/238U Ratio	2 sigma	207Pb/235Uc age (Ma)	2–sigma	2 +sigma	206Pb/238U age (Ma)	2–sigma	2 +sigma	207Pb/206Pb age (Ma)	2–sigma	2 +sigma
P1462_109_Zrn_A_1_POS_8	132.08	10.29	10.23	207Pb/235Uc	852	0.70	0.13892	0.01151	0.02012	0.00079	132.08	10.29	10.23	128.44	5.02	5.01	197.98	198.42	187.04
P1462_109_Zrn_A_1_POS_103	133.01	3.87	3.87	206Pb/238U	568	1.18	0.14228	0.01225	0.02085	0.00061	135.08	10.91	10.86	133.01	3.87	3.87	171.52	206.70	194.40
P1462_109_Zrn_A_1_POS_39	133.49	6.49	6.49	206Pb/238U	154	1.92	0.14195	0.02743	0.02092	0.00103	134.78	24.53	24.24	133.49	6.49	6.49	157.57	315.14	423.00
P1462_109_Zrn_A_1_POS_5	133.57	6.75	6.75	206Pb/238U	374	1.70	0.14111	0.01869	0.02094	0.00107	134.03	16.70	16.56	133.57	6.75	6.75	142.15	284.30	312.19
P1462_109_Zrn_A_1_POS_14	134.34	3.19	3.19	206Pb/238U	767	1.59	0.13815	0.01172	0.02106	0.00051	131.39	10.48	10.43	134.34	3.19	3.19	78.38	156.76	193.75
P1462_109_Zrn_A_1_POS_92	134.50	5.31	5.31	206Pb/238U	158	2.18	0.14507	0.01930	0.02108	0.00084	137.55	17.19	17.04	134.50	5.31	5.31	190.51	331.46	300.88
P1462_109_Zrn_A_1_POS_77	134.69	6.74	6.74	206Pb/238U	241	2.73	0.15142	0.02032	0.02111	0.00107	143.17	18.00	17.84	134.69	6.74	6.74	286.05	321.96	292.86
P1462_109_Zrn_A_1_POS_53	135.69	5.19	5.19	206Pb/238U	375	0.88	0.14965	0.01517	0.02127	0.00082	141.60	13.44	13.35	135.69	5.19	5.19	241.91	243.20	226.28
P1462_109_Zrn_A_1_POS_67	135.92	4.51	4.50	206Pb/238U	404	1.99	0.15389	0.01566	0.02131	0.00071	145.34	13.83	13.74	135.92	4.51	4.50	301.91	239.24	222.78
P1462_109_Zrn_A_1_POS_93	136.87	4.71	4.71	206Pb/238U	335	1.87	0.14902	0.02764	0.02146	0.00075	141.05	24.58	24.28	136.87	4.71	4.71	211.87	423.75	402.33
P1462_109_Zrn_A_1_POS_36	137.03	5.29	5.28	206Pb/238U	265	1.29	0.14186	0.02438	0.02148	0.00084	134.70	21.79	21.56	137.03	5.29	5.28	93.78	187.56	386.79
P1462_109_Zrn_A_1_POS_109	137.83	4.61	4.61	206Pb/238U	1196	2.12	0.14059	0.00910	0.02161	0.00073	133.57	8.12	8.09	137.83	4.61	4.61	58.55	117.09	155.87
P1462_109_Zrn_A_1_POS_101	137.94	5.25	5.25	206Pb/238U	1136	1.45	0.14502	0.00671	0.02163	0.00083	137.51	5.96	5.94	137.94	5.25	5.25	130.06	127.96	123.15
P1462_109_Zrn_A_1_POS_80	138.16	5.40	5.40	206Pb/238U	348	2.06	0.15012	0.01577	0.02166	0.00086	142.02	13.97	13.88	138.16	5.40	5.40	206.92	261.63	242.18
P1462_109_Zrn_A_1_POS_69	138.42	4.07	4.07	206Pb/238U	449	1.38	0.15019	0.01499	0.02171	0.00065	142.08	13.28	13.19	138.42	4.07	4.07	203.57	241.63	224.95
P1462_109_Zrn_A_1_POS_12	139.25	7.33	7.33	206Pb/238U	177	1.48	0.15939	0.02431	0.02184	0.00116	150.17	21.40	21.18	139.25	7.33	7.33	326.17	379.19	339.36
P1462_109_Zrn_A_1_POS_2	140.45	5.86	5.85	206Pb/238U	233	1.87	0.15362	0.02326	0.02203	0.00093	145.10	20.57	20.37	140.45	5.86	5.85	221.81	381.70	341.62
P1462_109_Zrn_A_1_POS_3	141.20	3.92	3.91	206Pb/238U	696	1.95	0.15626	0.01293	0.02215	0.00062	147.43	11.38	11.32	141.20	3.92	3.91	248.80	198.42	187.00
P1462_109_Zrn_A_1_POS_26	141.83	7.66	7.66	206Pb/238U	60	2.48	0.16549	0.03561	0.02225	0.00121	155.50	31.26	30.79	141.83	7.66	7.66	369.12	530.64	455.57
P1462_109_Zrn_A_1_POS_11	143.97	3.67	3.67	206Pb/238U	362	2.36	0.15847	0.01769	0.02258	0.00058	149.37	15.56	15.44	143.97	3.67	3.67	235.97	266.97	246.71
P1462_109_Zrn_A_1_POS_73	144.11	6.58	6.57	206Pb/238U	94	2.94	0.17054	0.04523	0.02261	0.00104	159.88	39.62	38.86	144.11	6.58	6.57	400.36	660.03	547.51
P1462_109_Zrn_A_1_POS_71	144.82	8.32	8.32	206Pb/238U	140	1.65	0.16136	0.02398	0.02272	0.00132	151.89	21.07	20.86	144.82	8.32	8.32	263.73	359.41	323.57
P1462_109_Zrn_A_1_POS_29	145.14	5.78	5.77	206Pb/238U	209	2.08	0.16217	0.02565	0.02277	0.00092	152.60	22.54	22.29	145.14	5.78	5.77	270.11	388.67	347.08
P1462_109_Zrn_A_1_POS_65	145.92	5.17	5.17	206Pb/238U	486	1.57	0.15425	0.02158	0.02289	0.00082	145.66	19.07	18.90	145.92	5.17	5.17	141.48	282.96	311.91
P1462_109_Zrn_A_1_POS_44	150.47	6.79	6.78	206Pb/238U	176	2.29	0.18389	0.03074	0.02362	0.00108	171.41	26.54	26.20	150.47	6.79	6.78	471.03	396.12	352.49
P1462_109_Zrn_A_1_POS_4	156.30	10.51	10.50	206Pb/238U	61	1.36	0.16466	0.05031	0.02454	0.00167	154.77	44.35	43.40	156.30	10.51	10.50	131.38	262.77	651.70
P1462_109_Zrn_A_1_POS_96	160.54	5.34	5.33	206Pb/238U	380	1.83	0.16868	0.02043	0.02522	0.00085	158.27	17.83	17.67	160.54	5.34	5.33	124.44	248.87	275.97
P1462_109_Zrn_A_1_POS_34	162.87	6.79	6.79	206Pb/238U	326	2.16	0.17453	0.01625	0.02559	0.00108	163.34	14.10	14.00	162.87	6.79	6.79	170.19	238.15	221.96
P1462_109_Zrn_A_1_POS_61	162.94	9.93	9.92	206Pb/238U	329	2.18	0.17917	0.02258	0.02560	0.00158	167.35	19.54	19.35	162.94	9.93	9.92	230.11	297.57	272.64
P1462_109_Zrn_A_1_POS_59	163.87	6.94	6.94	206Pb/238U	250	2.04	0.16755	0.02138	0.02575	0.00110	157.29	18.68	18.51	163.87	6.94	6.94	59.27	118.55	299.43
P1462_109_Zrn_A_1_POS_66	168.27	10.03	10.02	206Pb/238U	249	1.47	0.23484	0.06516	0.02645	0.00160	214.18	54.30	52.88	168.27	10.03	10.02	754.84	656.52	543.00
P1462_109_Zrn_A_1_POS_22	168.38	8.91	8.91	206Pb/238U	123	0.95	0.18318	0.04151	0.02646	0.00142	170.79	35.94	35.32	168.38	8.91	8.91	204.34	408.69	492.28
P1462_109_Zrn_A_1_POS_72	170.46	7.26	7.25	206Pb/238U	215	1.64	0.18326	0.02491	0.02679	0.00116	170.86	21.49	21.26	170.46	7.26	7.25	176.44	337.37	305.77
P1462_109_Zrn_A_1_POS_55	170.88	10.24	10.23	206Pb/238U	109	0.73	0.17496	0.03460	0.02686	0.00163	163.71	30.13	29.68	170.88	10.24	10.23	61.31	122.61	451.30
P1462_109_Zrn_A_1_POS_37	172.03	33.90	33.81	206Pb/238U	45	1.68	0.18489	0.06099	0.02705	0.00539	172.26	52.95	51.61	172.03	33.90	33.81	175.41	350.82	789.08
P1462_109_Zrn_A_1_POS_75	173.55	9.84	9.83	206Pb/238U	103	1.04	0.18814	0.02913	0.02729	0.00157	175.04	25.05	24.75	173.55	9.84	9.83	195.25	390.50	355.05
P1462_109_Zrn_A_1_POS_31	176.14	8.25	8.25	206Pb/238U	173	1.00	0.19409	0.02251	0.02770	0.00132	180.11	19.23	19.05	176.14	8.25	8.25	232.55	288.15	264.70
P1462_109_Zrn_A_1_POS_64	176.25	3.79	3.79	206Pb/238U	2140	0.34	0.18618	0.01133	0.02772	0.00060	173.36	9.72	9.67	176.25	3.79	3.79	134.15	144.08	138.01
P1462_109_Zrn_A_1_POS_85	177.15	11.48	11.47	206Pb/238U	260	0.77	0.19392	0.02779	0.02786	0.00183	179.97	23.77	23.50	177.15	11.48	11.47	217.17	372.55	334.29
P1462_109_Zrn_A_1_POS_46	177.21	7.77	7.77	206Pb/238U	313	0.51	0.20067	0.01515	0.02787	0.00124	185.69	12.85	12.77	177.21	7.77	7.77	295.06	195.40	184.28
P1462_109_Zrn_A_1_POS_47	179.45	7.12	7.11	206Pb/238U	307	0.86	0.20189	0.02005	0.02823	0.00113	186.72	17.01	16.87	179.45	7.12	7.11	279.71	239.73	223.23
P1462_109_Zrn_A_1_POS_95	179.49	10.75	10.74	206Pb/238U	63	1.30	0.23078	0.05644	0.02823	0.00171	210.84	47.11	46.04	179.49	10.75	10.74	577.46	582.97	492.57

**Table 2.** U–Pb age data from the Cretaceous Colombian back–arc basin (*continued*).

Analysis name	Sample GPS–619																		
	Preferred age (Ma)	2 –sigma	2 +sigma	Age type	[U] (ppm)	U/Th	207Pb/235U Ratio	2 sigma	206Pb/238U Ratio	2 sigma	207Pb/235Uc age (Ma)	2 –sigma	2 +sigma	206Pb/238U age (Ma)	2 –sigma	2 +sigma	207Pb/206Pb age (Ma)	2 –sigma	2 +sigma
P1462_109_Zrn_A_1_POS_0	179.94	9.65	9.64	206Pb/238U	127	1.49	0.22160	0.04460	0.02831	0.00154	203.24	37.41	36.74	179.94	9.65	9.64	482.97	487.69	423.14
P1462_109_Zrn_A_1_POS_19	180.49	7.89	7.88	206Pb/238U	179	0.81	0.19895	0.02945	0.02839	0.00126	184.23	25.10	24.79	180.49	7.89	7.88	232.58	369.17	331.53
P1462_109_Zrn_A_1_POS_58	181.75	9.83	9.82	206Pb/238U	80	0.96	0.20432	0.05895	0.02859	0.00157	188.78	50.32	49.11	181.75	9.83	9.82	277.62	555.23	601.21
P1462_109_Zrn_A_1_POS_35	183.02	17.25	17.23	206Pb/238U	36	1.05	0.21167	0.06463	0.02880	0.00275	194.95	54.89	53.45	183.02	17.25	17.23	341.98	683.95	645.14
P1462_109_Zrn_A_1_POS_6	183.14	5.70	5.70	206Pb/238U	321	0.82	0.19729	0.02161	0.02882	0.00091	182.83	18.41	18.25	183.14	5.70	5.70	178.92	265.58	245.60
P1462_109_Zrn_A_1_POS_49	183.30	4.85	4.85	206Pb/238U	1544	0.85	0.19457	0.00929	0.02884	0.00077	180.52	7.91	7.88	183.30	4.85	4.85	144.30	119.36	115.16
P1462_109_Zrn_A_1_POS_56	184.52	8.94	8.93	206Pb/238U	358	1.05	0.19720	0.01790	0.02904	0.00143	182.75	15.24	15.13	184.52	8.94	8.93	159.92	242.10	225.40
P1462_109_Zrn_A_1_POS_88	185.04	4.42	4.42	206Pb/238U	3556	1.62	0.19580	0.00835	0.02912	0.00071	181.57	7.10	7.08	185.04	4.42	4.42	136.58	94.34	91.70
P1462_109_Zrn_A_1_POS_54	185.06	6.82	6.82	206Pb/238U	225	1.36	0.21026	0.03039	0.02912	0.00109	193.77	25.65	25.33	185.06	6.82	6.82	301.19	348.41	314.55
P1462_109_Zrn_A_1_POS_78	185.24	7.69	7.68	206Pb/238U	258	0.74	0.19567	0.02333	0.02915	0.00123	181.45	19.91	19.71	185.24	7.69	7.68	132.37	264.74	275.19
P1462_109_Zrn_A_1_POS_23	185.39	8.79	8.78	206Pb/238U	163	1.05	0.19160	0.02433	0.02918	0.00140	177.99	20.84	20.63	185.39	8.79	8.78	80.91	161.83	280.76
P1462_109_Zrn_A_1_POS_99	188.53	9.47	9.46	206Pb/238U	263	1.02	0.20620	0.02230	0.02968	0.00151	190.36	18.86	18.69	188.53	9.47	9.46	213.04	267.92	247.56
P1462_109_Zrn_A_1_POS_57	189.05	10.81	10.80	206Pb/238U	160	2.17	0.20310	0.03447	0.02976	0.00173	187.74	29.30	28.88	189.05	10.81	10.80	171.37	342.74	382.76
P1462_109_Zrn_A_1_POS_15	189.18	7.02	7.02	206Pb/238U	297	0.82	0.21374	0.02390	0.02978	0.00112	196.69	20.10	19.90	189.18	7.02	7.02	287.67	274.81	253.33
P1462_109_Zrn_A_1_POS_43	191.61	13.24	13.23	206Pb/238U	61	0.69	0.24079	0.07130	0.03017	0.00212	219.07	59.20	57.52	191.61	13.24	13.23	525.44	733.56	596.21
P1462_109_Zrn_A_1_POS_18	192.31	11.56	11.55	206Pb/238U	79	1.10	0.23125	0.04921	0.03028	0.00185	211.23	40.99	40.18	192.31	11.56	11.55	427.90	529.05	454.15
P1462_109_Zrn_A_1_POS_28	193.80	10.26	10.25	206Pb/238U	109	1.91	0.21639	0.03999	0.03052	0.00164	198.90	33.66	33.11	193.80	10.26	10.25	259.92	447.50	393.27
P1462_109_Zrn_A_1_POS_30	194.92	8.86	8.85	206Pb/238U	115	1.10	0.21392	0.02155	0.03070	0.00142	196.84	18.10	17.94	194.92	8.86	8.85	219.91	252.40	234.24
P1462_109_Zrn_A_1_POS_48	196.73	10.02	10.01	206Pb/238U	108	2.02	0.22745	0.02596	0.03099	0.00160	208.09	21.59	21.36	196.73	10.02	10.01	338.77	271.98	250.86
P1462_109_Zrn_A_1_POS_25	200.63	7.17	7.17	206Pb/238U	268	1.09	0.22038	0.02434	0.03161	0.00115	202.22	20.35	20.15	200.63	7.17	7.17	220.80	268.93	248.41
P1462_109_Zrn_A_1_POS_94	256.73	9.25	9.24	206Pb/238U	493	1.17	0.29145	0.02171	0.04063	0.00149	259.70	17.14	17.00	256.73	9.25	9.24	286.59	174.56	165.64
P1462_109_Zrn_A_1_POS_107	261.85	6.96	6.96	206Pb/238U	420	0.79	0.30507	0.02838	0.04146	0.00112	270.35	22.20	21.96	261.85	6.96	6.96	344.66	214.95	201.53
P1462_109_Zrn_A_1_POS_86	262.01	6.76	6.76	206Pb/238U	1577	1.93	0.30065	0.01323	0.04148	0.00109	266.91	10.35	10.30	262.01	6.76	6.76	310.09	97.61	94.76
P1462_109_Zrn_A_1_POS_84	266.49	6.13	6.13	206Pb/238U	748	1.87	0.29383	0.03228	0.04221	0.00099	261.57	25.49	25.18	266.49	6.13	6.13	217.69	264.35	244.50
P1462_109_Zrn_A_1_POS_89	267.01	9.93	9.92	206Pb/238U	235	1.67	0.29492	0.02274	0.04229	0.00160	262.43	17.91	17.75	267.01	9.93	9.92	221.74	195.50	184.42
P1462_109_Zrn_A_1_POS_50	268.86	6.18	6.18	206Pb/238U	510	1.24	0.29446	0.02471	0.04259	0.00100	262.06	19.48	19.29	268.86	6.18	6.18	201.71	200.79	189.14
P1462_109_Zrn_A_1_POS_33	269.62	7.66	7.66	206Pb/238U	347	1.99	0.29232	0.02027	0.04271	0.00124	260.39	15.99	15.86	269.62	7.66	7.66	178.07	168.70	160.42
P1462_109_Zrn_A_1_POS_100	269.74	7.43	7.43	206Pb/238U	620	2.26	0.30030	0.03353	0.04273	0.00120	266.64	26.35	26.01	269.74	7.43	7.43	239.50	268.42	247.95
P1462_109_Zrn_A_1_POS_24	277.17	6.34	6.34	206Pb/238U	523	1.29	0.32713	0.04282	0.04393	0.00103	287.37	33.03	32.50	277.17	6.34	6.34	371.15	307.48	280.69
P1462_109_Zrn_A_1_POS_63	277.56	8.34	8.33	206Pb/238U	295	1.24	0.32298	0.01982	0.04400	0.00135	284.19	15.27	15.16	277.56	8.34	8.33	339.07	140.65	134.79
P1462_109_Zrn_A_1_POS_1	279.97	6.81	6.81	206Pb/238U	481	1.39	0.31316	0.02018	0.04439	0.00110	276.63	15.66	15.54	279.97	6.81	6.81	248.44	150.98	144.28
P1462_109_Zrn_A_1_POS_42	280.92	12.66	12.65	206Pb/238U	281	2.19	0.31637	0.04525	0.04454	0.00205	279.10	35.20	34.60	280.92	12.66	12.65	263.93	354.04	319.21
P1462_109_Zrn_A_1_POS_41	291.54	11.97	11.96	206Pb/238U	471	1.41	0.33397	0.02663	0.04626	0.00194	292.59	20.37	20.17	291.54	11.97	11.96	300.95	178.87	169.51
P1462_109_Zrn_A_1_POS_70	353.02	19.61	19.58	206Pb/238U	503	2.09	0.48243	0.06123	0.05629	0.00321	399.74	42.38	41.51	353.02	19.61	19.58	679.61	292.14	267.42
P1462_109_Zrn_A_1_POS_17	505.87	14.35	14.33	206Pb/238U	1136	5.07	0.66421	0.02428	0.08163	0.00241	517.18	14.87	14.76	505.87	14.35	14.33	567.50	73.19	71.54
P1462_109_Zrn_A_1_POS_102	543.29	14.26	14.25	206Pb/238U	323	2.25	0.73932	0.04827	0.08793	0.00241	562.01	28.38	27.99	543.29	14.26	14.25	638.55	148.06	141.45
P1462_109_Zrn_A_1_POS_98	598.75	14.58	14.57	206Pb/238U	2515	15.09	0.81874	0.02973	0.09733	0.00248	607.35	16.67	16.53	598.75	14.58	14.57	639.56	72.45	70.83
P1462_109_Zrn_A_1_POS_97	624.34	14.72	14.70	206Pb/238U	350	1.66	0.83937	0.04257	0.10170	0.00251	618.80	23.64	23.36	624.34	14.72	14.70	598.57	112.74	108.87
P1462_109_Zrn_A_1_POS_62	689.16	23.03	22.99	206Pb/238U	96	1.64	0.96913	0.08442	0.11283	0.00397	688.01	44.01	43.07	689.16	23.03	22.99	684.27	183.99	173.87
P1462_109_Zrn_A_1_POS_81	855.56	31.73	31.65	206Pb/238U	79	2.22	1.29178	0.10439	0.14193	0.00561	842.09	46.78	45.73	855.56	31.73	31.65	806.72	173.29	164.22
P1462_109_Zrn_A_1_POS_83	941.44	31.69	31.20	207Pb/235Uc	205	2.65	1.52737	0.07826	0.15699	0.00760	941.44	31.69	31.20	940.04	42.40	42.26	944.71	86.59	84.25
P1462_109_Zrn_A_1_POS_20	966.76	20.23	20.19	206Pb/238U	158	2.78	1.54151	0.07928	0.16180	0.00364	947.11	31.92	31.43	966.76	20.23	20.19	901.69	109.07	105.38

**Table 2.** U–Pb age data from the Cretaceous Colombian back–arc basin (*continued*).

Sample GPS-619																			
Analysis name	Preferred age (Ma)	2–sigma	2 +sigma	Age type	[U] (ppm)	U/Th	207Pb/235U Ratio	2 sigma	206Pb/238U Ratio	2 sigma	207Pb/235Uc age (Ma)	2–sigma	2 +sigma	206Pb/238U age (Ma)	2–sigma	2 +sigma	207Pb/206Pb age (Ma)	2–sigma	2 +sigma
P1462_109_Zrn_A_1_POS_38	985.97	26.63	26.57	206Pb/238U	127	2.75	1.68017	0.09858	0.16527	0.00481	1001.04	37.69	37.01	985.97	26.63	26.57	1034.20	118.72	114.33
P1462_109_Zrn_A_1_POS_32	992.41	29.32	29.25	206Pb/238U	214	1.84	1.64880	0.09074	0.16643	0.00530	989.09	35.09	34.49	992.41	29.32	29.25	981.72	104.78	101.36
P1462_109_Zrn_A_1_POS_87	1000.19	34.19	34.10	206Pb/238U	100	2.41	1.67848	0.10077	0.16784	0.00618	1000.40	38.56	37.84	1000.19	34.19	34.10	1000.86	124.23	119.44
P1462_109_Zrn_A_1_POS_82	1004.00	27.73	27.67	206Pb/238U	303	2.01	1.72302	0.08802	0.16853	0.00502	1017.15	33.09	32.56	1004.00	27.73	27.67	1045.57	98.71	95.66
P1462_109_Zrn_A_1_POS_21	1076.45	22.10	22.06	206Pb/238U	422	1.56	1.85828	0.07099	0.18174	0.00405	1066.38	25.38	25.06	1076.45	22.10	22.06	1045.83	72.66	70.99
P1462_109_Zrn_A_1_POS_9	1096.90	25.68	25.36	207Pb/235Uc	177	2.48	1.94550	0.07403	0.18089	0.00475	1096.90	25.68	25.36	1071.81	25.98	25.93	1147.02	74.16	72.41
P1462_109_Zrn_A_1_POS_60	1101.76	30.17	30.10	206Pb/238U	259	3.09	1.95644	0.10325	0.18638	0.00555	1100.66	35.77	35.16	1101.76	30.17	30.10	1098.50	103.63	100.26
P1462_109_Zrn_A_1_POS_79	1113.80	35.61	35.00	207Pb/235Uc	179	1.36	1.99494	0.10412	0.18641	0.00687	1113.80	35.61	35.00	1101.90	37.36	37.26	1137.09	91.17	88.55
P1462_109_Zrn_A_1_POS_52	1839.84	32.79	32.27	207Pb/235Uc	349	1.62	5.12247	0.19612	0.32374	0.00874	1839.84	32.79	32.27	1807.96	42.64	42.50	1876.10	60.55	59.34
P1462_109_Zrn_A_1_POS_91	1869.39	36.44	35.79	207Pb/235Uc	167	1.59	5.30328	0.22417	0.33481	0.00798	1869.39	36.44	35.79	1861.67	38.60	38.48	1877.99	73.80	72.01
P1462_109_Zrn_A_1_POS_13	2866.88	65.48	64.01	207Pb/206Pb	757	3.39	14.37621	1.14274	0.50847	0.03833	2774.86	76.90	74.09	2650.11	164.83	162.75	2866.88	65.48	64.01
Sample GPS-1210																			
Analysis name	Preferred age (Ma)	2–sigma	2 +sigma	Age type	[U] (ppm)	U/Th	207Pb/235U Ratio	2 sigma	206Pb/238U Ratio	2 sigma	207Pb/235Uc age (Ma)	2–sigma	2 +sigma	206Pb/238U age (Ma)	2–sigma	2 +sigma	207Pb/206Pb age (Ma)	2–sigma	2 +sigma
P1462_218_Zrn_A_1_MBD_105	261.59	121.19	120.06	206Pb/238U	1	3	0.69259	0.73644	0.04141	0.01949	534.36	498.19	399.73	261.59	121.19	120.06	1975.31	3183.99	1503.91
P1462_218_Zrn_A_1_MBD_54	524.77	24.05	24.01	206Pb/238U	149	0.55	0.69713	0.07210	0.08481	0.00404	537.08	43.60	42.69	524.77	24.05	24.01	589.66	234.69	218.55
P1462_218_Zrn_A_1_MBD_49	557.25	26.89	26.83	206Pb/238U	145	1.39	0.78898	0.06692	0.09029	0.00454	590.60	38.34	37.63	557.25	26.89	26.83	720.89	164.58	156.42
P1462_218_Zrn_A_1_MBD_38	642.47	22.94	22.90	206Pb/238U	351	1.75	0.85507	0.05639	0.10480	0.00393	627.43	31.10	30.63	642.47	22.94	22.90	573.58	129.64	124.56
P1462_218_Zrn_A_1_MBD_67	721.02	35.20	35.10	206Pb/238U	46	1.57	1.20743	0.23527	0.11834	0.00610	804.01	111.21	105.44	721.02	35.20	35.10	1041.41	420.03	369.78
P1462_218_Zrn_A_1_MBD_70	879.99	28.49	28.43	206Pb/238U	258	3.17	1.44067	0.08628	0.14626	0.00506	906.00	36.22	35.58	879.99	28.49	28.43	969.95	116.12	111.94
P1462_218_Zrn_A_1_MBD_99	880.62	41.99	41.14	207Pb/235Uc	578	2.19	1.38042	0.09744	0.14886	0.00907	880.62	41.99	41.14	894.55	50.97	50.77	845.76	116.20	112.04
P1462_218_Zrn_A_1_MBD_87	881.48	36.05	35.95	206Pb/238U	159	1.68	1.32654	0.11493	0.14653	0.00640	857.37	50.79	49.55	881.48	36.05	35.95	795.53	173.33	164.26
P1462_218_Zrn_A_1_MBD_85	889.70	42.64	41.76	207Pb/235Uc	193	3.30	1.40182	0.09981	0.14663	0.00751	889.70	42.64	41.76	882.06	42.28	42.14	908.75	124.31	119.54
P1462_218_Zrn_A_1_MBD_41	900.88	28.69	28.63	206Pb/238U	343	4.77	1.46813	0.09272	0.14998	0.00511	917.36	38.51	37.79	900.88	28.69	28.63	957.22	120.80	116.28
P1462_218_Zrn_A_1_MBD_30	931.33	41.58	41.44	206Pb/238U	221	1.07	1.51219	0.11141	0.15543	0.00744	935.32	45.54	44.54	931.33	41.58	41.44	944.75	142.17	135.95
P1462_218_Zrn_A_1_MBD_65	957.34	29.50	29.43	206Pb/238U	266	3.84	1.59078	0.09398	0.16010	0.00530	966.60	37.17	36.50	957.34	29.50	29.43	987.72	113.61	109.60
P1462_218_Zrn_A_1_MBD_55	999.23	33.15	33.07	206Pb/238U	214	2.92	1.67886	0.09506	0.16766	0.00600	1000.55	36.36	35.72	999.23	33.15	33.07	1003.45	112.20	108.28
P1462_218_Zrn_A_1_MBD_15	1004.04	77.53	77.06	206Pb/238U	109	3.19	1.56214	0.19151	0.16854	0.01401	955.31	77.35	74.51	1004.04	77.53	77.06	844.73	207.80	194.86
P1462_218_Zrn_A_1_MBD_100	1008.21	36.13	36.03	206Pb/238U	128	2.57	1.75998	0.11683	0.16929	0.00654	1030.84	43.44	42.53	1008.21	36.13	36.03	1079.18	126.46	121.48
P1462_218_Zrn_A_1_MBD_33	1041.90	44.44	43.49	207Pb/235Uc	664	3.30	1.79021	0.12080	0.17085	0.00989	1041.90	44.44	43.49	1016.80	54.55	54.32	1094.95	101.79	98.54
P1462_218_Zrn_A_1_MBD_88	1051.25	38.51	38.39	206Pb/238U	231	6.04	1.76213	0.10868	0.17713	0.00702	1031.63	40.35	39.56	1051.25	38.51	38.39	990.26	110.66	106.85
P1462_218_Zrn_A_1_MBD_5	1099.91	57.60	56.01	207Pb/235Uc	315	2.47	1.95426	0.16524	0.16519	0.01223	1099.91	57.60	56.01	985.54	67.84	67.49	1333.75	175.93	166.32
P1462_218_Zrn_A_1_MBD_86	1119.53	38.46	38.35	206Pb/238U	205	1.82	2.00363	0.13267	0.18966	0.00709	1116.74	45.35	44.36	1119.53	38.46	38.35	1111.31	131.76	126.35
P1462_218_Zrn_A_1_MBD_90	1123.97	40.06	39.94	206Pb/238U	273	4.15	2.01711	0.12108	0.19048	0.00739	1121.29	41.16	40.34	1123.97	40.06	39.94	1116.09	107.20	103.59
P1462_218_Zrn_A_1_MBD_60	1129.78	35.16	35.06	206Pb/238U	350	4.38	2.03277	0.11072	0.19155	0.00649	1126.54	37.41	36.73	1129.78	35.16	35.06	1120.32	100.75	97.56
P1462_218_Zrn_A_1_MBD_43	1130.66	34.67	34.09	207Pb/235Uc	327	3.20	2.04510	0.10308	0.19435	0.00731	1130.66	34.67	34.09	1144.91	39.50	39.37	1103.40	83.67	81.46
P1462_218_Zrn_A_1_MBD_73	1142.94	40.05	39.92	206Pb/238U	200	1.58	2.09462	0.12450	0.19399	0.00741	1147.04	41.27	40.45	1142.94	40.05	39.92	1154.81	108.82	105.10
P1462_218_Zrn_A_1_MBD_16	1190.62	75.89	73.15	207Pb/235Uc	67	2.65	2.23031	0.23697	0.19512	0.01822	1190.62	75.89	73.15	1149.05	98.67	97.92	1266.89	138.42	132.42
P1462_218_Zrn_A_1_MBD_31	1205.28	39.81	39.05	207Pb/235Uc	156	1.44	2.27731	0.12725	0.20585	0.00833	1205.28	39.81	39.05	1206.65	44.61	44.46	1202.84	94.20	91.39
P1462_218_Zrn_A_1_MBD_14	1233.68	48.29	47.17	207Pb/235Uc	269	1.98	2.37025	0.15841	0.20584	0.00878	1233.68	48.29	47.17	1206.61	47.00	46.83	1281.29	116.79	112.48
P1462_218_Zrn_A_1_MBD_68	1236.87	36.87	36.77	206Pb/238U	204	2.38	2.32401	0.14494	0.21151	0.00692	1219.65	44.76	43.80	1236.87	36.87	36.77	1189.32	116.84	112.56



**Table 2.** U–Pb age data from the Cretaceous Colombian back–arc basin (*continued*).

Analysis name	Sample GPS–1210																		
	Preferred age (Ma)	2 –sigma	2 +sigma	Age type	[U] (ppm)	U/Th	207Pb/235U Ratio	2 sigma	206Pb/238U Ratio	2 sigma	207Pb/235Uc age (Ma)	2 –sigma	2 +sigma	206Pb/238U age (Ma)	2 –sigma	2 +sigma	207Pb/206Pb age (Ma)	2 –sigma	2 +sigma
P1462_218_Zrn_A_1_MBD_57	1261.57	40.40	39.61	207Pb/235Uc	235	1.78	2.46411	0.13647	0.21051	0.00747	1261.57	40.40	39.61	1231.55	39.84	39.72	1313.13	99.31	96.18
P1462_218_Zrn_A_1_MBD_35	1274.00	56.18	54.67	207Pb/235Uc	250	2.11	2.50678	0.19137	0.20568	0.01287	1274.00	56.18	54.67	1205.75	69.02	68.65	1391.08	112.37	108.36
P1462_218_Zrn_A_1_MBD_104	1285.72	44.97	44.00	207Pb/235Uc	168	2.05	2.54751	0.15539	0.21792	0.00917	1285.72	44.97	44.00	1270.88	48.63	48.45	1310.61	98.21	95.14
P1462_218_Zrn_A_1_MBD_23	1287.06	52.51	51.18	207Pb/235Uc	101	2.59	2.55218	0.18134	0.21843	0.01040	1287.06	52.51	51.18	1273.59	55.16	54.93	1309.61	119.24	114.75
P1462_218_Zrn_A_1_MBD_42	1288.85	59.63	57.93	207Pb/235Uc	348	2.35	2.55846	0.20594	0.22254	0.01317	1288.85	59.63	57.93	1295.29	69.64	69.26	1278.14	121.79	117.12
P1462_218_Zrn_A_1_MBD_21	1296.88	36.30	35.66	207Pb/235Uc	240	2.27	2.58668	0.12707	0.21959	0.00719	1296.88	36.30	35.66	1279.72	38.08	37.97	1325.39	95.10	92.22
P1462_218_Zrn_A_1_MBD_92	1332.87	57.21	55.65	207Pb/235Uc	67	0.90	2.71612	0.20647	0.23132	0.01129	1332.87	57.21	55.65	1341.41	59.27	58.99	1319.19	133.21	127.63
P1462_218_Zrn_A_1_MBD_12	1335.82	45.66	44.66	207Pb/235Uc	228	1.90	2.72693	0.16574	0.22775	0.01059	1335.82	45.66	44.66	1322.72	55.71	55.47	1356.89	97.15	94.14
P1462_218_Zrn_A_1_MBD_108	1363.07	50.54	49.32	207Pb/235Uc	165	1.64	2.82830	0.18821	0.22925	0.01174	1363.07	50.54	49.32	1330.54	61.70	61.41	1414.44	127.30	122.17
P1462_218_Zrn_A_1_MBD_51	1367.87	34.95	34.36	207Pb/235Uc	165	1.77	2.84644	0.13127	0.23348	0.00748	1367.87	34.95	34.36	1352.70	39.13	39.01	1391.65	82.63	80.44
P1462_218_Zrn_A_1_MBD_6	1369.75	32.55	32.04	207Pb/235Uc	292	1.67	2.85358	0.12256	0.23180	0.00768	1369.75	32.55	32.04	1343.91	40.24	40.12	1410.29	80.37	78.30
P1462_218_Zrn_A_1_MBD_27	1377.47	64.70	62.70	207Pb/235Uc	130	1.32	2.88298	0.24353	0.23582	0.01563	1377.47	64.70	62.70	1364.91	81.77	81.25	1397.00	120.84	116.21
P1462_218_Zrn_A_1_MBD_0	1377.48	58.19	56.57	207Pb/235Uc	131	1.59	2.88300	0.21936	0.24134	0.01385	1377.48	58.19	56.57	1393.64	72.13	71.73	1352.51	120.89	116.27
P1462_218_Zrn_A_1_MBD_80	1407.59	57.71	56.12	207Pb/235Uc	95	0.97	2.99989	0.22415	0.24451	0.01211	1407.59	57.71	56.12	1410.08	62.87	62.56	1403.83	119.76	115.21
P1462_218_Zrn_A_1_MBD_96	1428.46	53.74	52.36	207Pb/235Uc	823	3.02	3.08295	0.21328	0.23733	0.01290	1428.46	53.74	52.36	1372.81	67.40	67.05	1512.39	94.93	92.03
P1462_218_Zrn_A_1_MBD_45	1430.81	38.63	37.91	207Pb/235Uc	330	2.33	3.09239	0.15424	0.24863	0.00965	1430.81	38.63	37.91	1431.42	49.93	49.74	1429.89	86.41	84.02
P1462_218_Zrn_A_1_MBD_71	1439.83	54.70	53.26	207Pb/235Uc	57	1.92	3.12894	0.21946	0.25596	0.01292	1439.83	54.70	53.26	1469.13	66.46	66.12	1396.82	112.70	108.67
P1462_218_Zrn_A_1_MBD_56	1450.90	34.27	33.70	207Pb/235Uc	498	2.40	3.17420	0.13969	0.25048	0.00747	1450.90	34.27	33.70	1440.96	38.55	38.43	1465.50	81.20	79.07
P1462_218_Zrn_A_1_MBD_18	1461.12	40.15	39.37	207Pb/235Uc	344	1.90	3.21639	0.16507	0.24837	0.01005	1461.12	40.15	39.37	1430.09	51.99	51.78	1506.52	75.62	73.77
P1462_218_Zrn_A_1_MBD_46	1473.85	55.57	55.33	206Pb/238U	61	1.07	3.17928	0.22949	0.25688	0.01081	1452.14	56.54	55.00	1473.85	55.57	55.33	1420.50	133.64	127.99
P1462_218_Zrn_A_1_MBD_89	1474.46	48.69	47.55	207Pb/235Uc	215	3.52	3.27216	0.20241	0.24649	0.01251	1474.46	48.69	47.55	1420.37	64.84	64.52	1553.20	92.59	89.82
P1462_218_Zrn_A_1_MBD_47	1478.98	39.79	39.02	207Pb/235Uc	288	2.92	3.29122	0.16652	0.26115	0.00955	1478.98	39.79	39.02	1495.73	48.89	48.70	1455.02	79.31	77.29
P1462_218_Zrn_A_1_MBD_98	1482.39	39.66	38.90	207Pb/235Uc	888	3.45	3.30565	0.16653	0.25500	0.01090	1482.39	39.66	38.90	1464.23	56.10	55.86	1508.47	93.00	90.22
P1462_218_Zrn_A_1_MBD_34	1484.99	49.08	47.92	207Pb/235Uc	196	2.20	3.31670	0.20613	0.26098	0.01294	1484.99	49.08	47.92	1494.88	66.34	66.00	1470.89	90.06	87.45
P1462_218_Zrn_A_1_MBD_48	1489.82	33.57	33.03	207Pb/235Uc	378	2.58	3.33727	0.14224	0.26145	0.00757	1489.82	33.57	33.03	1497.27	38.72	38.60	1479.22	74.93	73.12
P1462_218_Zrn_A_1_MBD_29	1491.29	35.34	34.74	207Pb/235Uc	403	1.50	3.34357	0.14987	0.25550	0.00874	1491.29	35.34	34.74	1466.77	44.96	44.81	1526.33	75.14	73.31
P1462_218_Zrn_A_1_MBD_13	1499.02	59.70	57.99	207Pb/235Uc	112	1.94	3.37676	0.25357	0.25900	0.01675	1499.02	59.70	57.99	1484.74	86.05	85.48	1519.26	94.79	91.90
P1462_218_Zrn_A_1_MBD_109	1502.44	74.23	71.61	207Pb/235Uc	280	1.08	3.39152	0.31525	0.24589	0.01592	1502.44	74.23	71.61	1417.23	82.66	82.13	1624.76	146.57	139.74
P1462_218_Zrn_A_1_MBD_39	1507.30	39.64	38.88	207Pb/235Uc	388	1.39	3.41262	0.17059	0.26170	0.01038	1507.30	39.64	38.88	1498.51	53.15	52.93	1519.68	76.75	74.84
P1462_218_Zrn_A_1_MBD_66	1509.16	48.86	47.71	207Pb/235Uc	71	2.21	3.42070	0.21018	0.26388	0.01122	1509.16	48.86	47.71	1509.68	57.36	57.11	1508.44	111.38	107.41
P1462_218_Zrn_A_1_MBD_69	1510.78	37.07	36.41	207Pb/235Uc	671	3.02	3.42776	0.16019	0.26761	0.00819	1510.78	37.07	36.41	1528.68	41.72	41.58	1485.78	77.49	75.56
P1462_218_Zrn_A_1_MBD_103	1511.60	47.16	46.09	207Pb/235Uc	116	1.56	3.43133	0.20345	0.26132	0.01183	1511.60	47.16	46.09	1496.60	60.62	60.34	1532.67	107.45	103.75
P1462_218_Zrn_A_1_MBD_2	1514.82	37.85	37.16	207Pb/235Uc	244	3.34	3.44539	0.16417	0.26362	0.00943	1514.82	37.85	37.16	1508.35	48.21	48.03	1523.87	82.92	80.70
P1462_218_Zrn_A_1_MBD_8	1525.53	66.37	64.27	207Pb/235Uc	26	0.84	3.49254	0.28890	0.28013	0.02072	1525.53	66.37	64.27	1592.04	104.75	103.91	1434.46	126.01	120.97
P1462_218_Zrn_A_1_MBD_44	1528.93	57.28	55.71	207Pb/235Uc	268	2.14	3.50759	0.25072	0.26662	0.01728	1528.93	57.28	55.71	1523.63	88.25	87.65	1536.27	83.79	81.52
P1462_218_Zrn_A_1_MBD_77	1536.15	96.46	92.08	207Pb/235Uc	34	1.33	3.53978	0.42117	0.27406	0.01998	1536.15	96.46	92.08	1561.38	101.50	100.71	1501.59	217.12	202.54
P1462_218_Zrn_A_1_MBD_64	1536.29	39.52	39.40	206Pb/238U	300	2.38	3.73338	0.21160	0.26911	0.00777	1578.55	45.91	44.89	1536.29	39.52	39.40	1635.50	98.43	95.30
P1462_218_Zrn_A_1_MBD_17	1544.19	37.89	37.19	207Pb/235Uc	710	3.53	3.57587	0.16915	0.27060	0.01002	1544.19	37.89	37.19	1543.87	50.96	50.76	1544.63	71.15	69.51
P1462_218_Zrn_A_1_MBD_10	1562.00	34.81	34.22	207Pb/235Uc	268	2.92	3.65684	0.15829	0.27432	0.00961	1562.00	34.81	34.22	1562.67	48.69	48.51	1561.10	72.71	71.00
P1462_218_Zrn_A_1_MBD_7	1584.67	54.63	53.19	207Pb/235Uc	132	2.76	3.76196	0.25277	0.27486	0.01116	1584.67	54.63	53.19	1565.40	56.54	56.29	1610.40	123.09	118.24
P1462_218_Zrn_A_1_MBD_75	1604.28	67.62	65.44	207Pb/235Uc	742	6.06	3.85481	0.31797	0.26398	0.01966	1604.28	67.62	65.44	1510.18	100.65	99.87	1730.13	85.89	83.49
P1462_218_Zrn_A_1_MBD_1	1608.01	55.14	53.68	207Pb/235Uc	153	1.87	3.87270	0.26106	0.27522	0.01513	1608.01	55.14	53.68	1567.26	76.71	76.25	1661.80	104.89	101.34

**Table 2.** U–Pb age data from the Cretaceous Colombian back–arc basin (*continued*).

Sample GPS–1210																			
Analysis name	Preferred age (Ma)	2–sigma	2 +sigma	Age type	[U] (ppm)	U/Th	207Pb/235U Ratio	2 sigma	206Pb/238U Ratio	2 sigma	207Pb/235Uc age (Ma)	2–sigma	2 +sigma	206Pb/238U age (Ma)	2–sigma	2 +sigma	207Pb/206Pb age (Ma)	2–sigma	2 +sigma
P1462_218_Zrn_A_1_MBD_11	1616.75	45.20	44.21	207Pb/235Uc	136	1.26	3.91483	0.21636	0.28057	0.01337	1616.75	45.20	44.21	1594.22	67.48	67.13	1646.21	81.84	79.66
P1462_218_Zrn_A_1_MBD_107	1631.12	41.55	40.72	207Pb/235Uc	207	1.51	3.98489	0.20192	0.28366	0.01107	1631.12	41.55	40.72	1609.75	55.70	55.46	1658.80	74.80	72.98
P1462_218_Zrn_A_1_MBD_61	1633.02	61.44	59.64	207Pb/235Uc	149	0.99	3.99423	0.29768	0.27418	0.01492	1633.02	61.44	59.64	1561.98	75.71	75.26	1725.77	122.39	117.56
P1462_218_Zrn_A_1_MBD_53	1650.91	38.57	37.85	207Pb/235Uc	323	0.75	4.08296	0.19126	0.29560	0.01038	1650.91	38.57	37.85	1669.47	51.75	51.54	1627.36	69.95	68.35
P1462_218_Zrn_A_1_MBD_62	1653.03	49.30	48.13	207Pb/235Uc	213	1.90	4.09360	0.24434	0.28244	0.01073	1653.03	49.30	48.13	1603.64	54.05	53.83	1716.39	93.77	90.92
P1462_218_Zrn_A_1_MBD_94	1664.09	44.01	43.08	207Pb/235Uc	378	1.76	4.14939	0.22080	0.28554	0.01090	1664.09	44.01	43.08	1619.22	54.76	54.53	1721.18	87.21	84.73
P1462_218_Zrn_A_1_MBD_101	1665.72	48.50	47.37	207Pb/235Uc	319	6.09	4.15767	0.24346	0.28943	0.01257	1665.72	48.50	47.37	1638.69	62.98	62.68	1699.97	83.02	80.77
P1462_218_Zrn_A_1_MBD_93	1671.96	54.07	52.67	207Pb/235Uc	154	1.43	4.18944	0.27269	0.29903	0.01484	1671.96	54.07	52.67	1686.49	73.87	73.45	1653.76	115.32	111.04
P1462_218_Zrn_A_1_MBD_22	1674.06	63.52	61.59	207Pb/235Uc	115	2.31	4.20021	0.32026	0.28458	0.01279	1674.06	63.52	61.59	1614.41	64.34	64.02	1749.68	147.83	140.85
P1462_218_Zrn_A_1_MBD_32	1676.60	76.16	73.41	207Pb/235Uc	162	2.05	4.21323	0.38380	0.29836	0.02125	1676.60	76.16	73.41	1683.18	105.96	105.10	1668.38	135.39	129.53
P1462_218_Zrn_A_1_MBD_58	1691.01	44.90	43.93	207Pb/235Uc	215	1.45	4.28776	0.23125	0.30453	0.00962	1691.01	44.90	43.93	1713.72	47.61	47.43	1662.97	94.71	91.80
P1462_218_Zrn_A_1_MBD_19	1699.59	58.51	56.87	207Pb/235Uc	307	2.69	4.33259	0.30291	0.29294	0.01857	1699.59	58.51	56.87	1656.20	92.90	92.23	1753.50	75.72	73.85
P1462_218_Zrn_A_1_MBD_82	1700.57	42.41	41.55	207Pb/235Uc	314	1.88	4.33778	0.22065	0.30682	0.01182	1700.57	42.41	41.55	1725.06	58.42	58.16	1670.53	73.86	72.08
P1462_218_Zrn_A_1_MBD_36	1712.79	38.94	38.21	207Pb/235Uc	164	1.85	4.40239	0.20521	0.29746	0.00984	1712.79	38.94	38.21	1678.69	48.98	48.80	1754.75	73.17	71.41
P1462_218_Zrn_A_1_MBD_91	1716.13	51.41	50.14	207Pb/235Uc	85	1.72	4.42021	0.27099	0.29692	0.01320	1716.13	51.41	50.14	1676.00	65.80	65.47	1765.46	90.63	87.95
P1462_218_Zrn_A_1_MBD_40	1734.22	56.36	54.84	207Pb/235Uc	177	1.38	4.51761	0.30204	0.30944	0.01556	1734.22	56.36	54.84	1737.93	76.83	76.38	1729.75	95.27	92.32
P1462_218_Zrn_A_1_MBD_76	1742.15	51.69	50.41	207Pb/235Uc	164	1.50	4.56086	0.27952	0.30808	0.01428	1742.15	51.69	50.41	1731.27	70.57	70.19	1755.23	87.31	84.83
P1462_218_Zrn_A_1_MBD_25	1763.71	40.16	39.38	207Pb/235Uc	199	1.41	4.68024	0.22245	0.31647	0.01306	1763.71	40.16	39.38	1772.45	64.11	63.79	1753.38	67.34	65.85
P1462_218_Zrn_A_1_MBD_52	1765.29	40.53	40.40	206Pb/238U	276	3.21	4.46459	0.22581	0.31501	0.00826	1724.41	42.40	41.53	1765.29	40.53	40.40	1675.15	89.25	86.67
P1462_218_Zrn_A_1_MBD_28	1785.20	58.98	57.32	207Pb/235Uc	113	1.18	4.80173	0.33217	0.31176	0.01597	1785.20	58.98	57.32	1749.35	78.71	78.24	1827.37	104.01	100.49
P1462_218_Zrn_A_1_MBD_3	1789.83	51.01	49.76	207Pb/235Uc	220	1.84	4.82823	0.28912	0.32196	0.01253	1789.83	51.01	49.76	1799.30	61.26	60.97	1778.80	100.11	96.85
P1462_218_Zrn_A_1_MBD_84	1813.99	38.89	38.16	207Pb/235Uc	260	1.71	4.96855	0.22641	0.30755	0.01316	1813.99	38.89	38.16	1728.64	65.06	64.74	1913.49	94.94	91.98
P1462_218_Zrn_A_1_MBD_9	1829.17	58.17	56.55	207Pb/235Uc	121	1.28	5.05847	0.34216	0.32462	0.01351	1829.17	58.17	56.55	1812.27	65.91	65.57	1848.46	112.37	108.27
P1462_218_Zrn_A_1_MBD_26	1848.41	44.14	43.20	207Pb/235Uc	165	1.73	5.17434	0.26549	0.32709	0.01208	1848.41	44.14	43.20	1824.25	58.82	58.55	1875.70	93.24	90.39
P1462_218_Zrn_A_1_MBD_20	1879.04	57.06	55.50	207Pb/235Uc	99	1.85	5.36344	0.35260	0.33238	0.01739	1879.04	57.06	55.50	1849.91	84.43	83.88	1911.40	92.68	89.87
P1462_218_Zrn_A_1_MBD_74	1928.28	43.28	42.38	207Pb/235Uc	139	1.35	5.67964	0.28173	0.34755	0.01120	1928.28	43.28	42.38	1922.88	53.67	53.45	1934.08	77.35	75.38
P1462_218_Zrn_A_1_MBD_4	1961.64	49.53	48.35	207Pb/235Uc	210	1.74	5.90273	0.33262	0.34815	0.01169	1961.64	49.53	48.35	1925.76	56.01	55.77	1999.70	94.92	91.95
P1462_218_Zrn_A_1_MBD_81	2019.38	43.02	42.13	207Pb/235Uc	133	1.60	6.30668	0.30633	0.37589	0.01174	2019.38	43.02	42.13	2057.08	55.12	54.89	1981.07	82.12	79.90
P1462_218_Zrn_A_1_MBD_106	2032.67	50.90	49.66	207Pb/235Uc	105	1.65	6.40291	0.36651	0.36087	0.01381	2032.67	50.90	49.66	1986.30	65.59	65.26	2080.07	83.45	81.15
P1462_218_Zrn_A_1_MBD_83	2056.97	50.49	49.26	207Pb/235Uc	194	4.46	6.58221	0.37237	0.37803	0.01142	2056.97	50.49	49.26	2067.07	53.55	53.33	2046.86	92.70	89.86

  

Sample GPS–1211																			
Analysis name	Preferred age (Ma)	2–sigma	2 +sigma	Age type	[U] (ppm)	U/Th	207Pb/235U Ratio	2 sigma	206Pb/238U Ratio	2 sigma	207Pb/235Uc age (Ma)	2–sigma	2 +sigma	206Pb/238U age (Ma)	2–sigma	2 +sigma	207Pb/206Pb age (Ma)	2–sigma	2 +sigma
P1462_219_Zrn_A_1_MBD_105	403.87	58.20	57.94	206Pb/238U	274	3.79	0.62598	0.15652	0.06465	0.00959	493.59	100.17	95.47	403.87	58.20	57.94	934.83	507.34	436.17
P1462_219_Zrn_A_1_MBD_34	427.79	14.40	14.39	206Pb/238U	369	1.67	0.51407	0.04544	0.06861	0.00239	421.18	30.71	30.25	427.79	14.40	14.39	385.16	195.16	184.01
P1462_219_Zrn_A_1_MBD_86	441.83	12.04	12.03	206Pb/238U	404	1.21	0.55247	0.03935	0.07094	0.00200	446.61	25.90	25.57	441.83	12.04	12.03	471.32	155.71	148.49
P1462_219_Zrn_A_1_MBD_90	452.93	22.49	22.45	206Pb/238U	689	1.70	0.60861	0.05392	0.07279	0.00374	482.68	34.33	33.76	452.93	22.49	22.45	626.58	172.49	163.59
P1462_219_Zrn_A_1_MBD_63	480.30	20.48	20.45	206Pb/238U	78	2.09	0.58409	0.08004	0.07735	0.00342	467.09	51.97	50.67	480.30	20.48	20.45	402.65	322.31	292.95
P1462_219_Zrn_A_1_MBD_30	500.26	19.89	19.86	206Pb/238U	436	2.16	0.69936	0.05400	0.08069	0.00333	538.41	32.52	32.01	500.26	19.89	19.86	703.45	167.68	159.22
P1462_219_Zrn_A_1_MBD_44	523.34	24.14	24.09	206Pb/238U	191	3.01	0.65797	0.05881	0.08457	0.00406	513.37	36.34	35.70	523.34	24.14	24.09	469.23	208.66	195.90
P1462_219_Zrn_A_1_MBD_104	527.73	16.36	16.34	206Pb/238U	194	1.87	0.67023	0.07229	0.08531	0.00275	520.85	44.43	43.48	527.73	16.36	16.34	490.81	240.88	224.01

**Table 2.** U–Pb age data from the Cretaceous Colombian back–arc basin (*continued*).

Analysis name	Preferred age (Ma)	Sample GPS–1211																	
		2 –sigma	2 +sigma	Age type	[U] (ppm)	U/Th	207Pb/235U Ratio	2 sigma	206Pb/238U Ratio	2 sigma	207Pb/235Uc age (Ma)	2 –sigma	2 +sigma	206Pb/238U age (Ma)	2 –sigma	2 +sigma	207Pb/206Pb age (Ma)	2 –sigma	2 +sigma
P1462_219_Zrn_A_1_MBD_25	562.24	38.97	38.24	207Pb/235Uc	281	3.19	0.73971	0.06614	0.07631	0.00593	562.24	38.97	38.24	474.04	35.56	35.46	937.33	232.23	216.10
P1462_219_Zrn_A_1_MBD_91	592.18	19.82	19.79	206Pb/238U	162	1.63	0.84618	0.07810	0.09621	0.00337	622.55	43.42	42.51	592.18	19.82	19.79	734.54	204.41	191.95
P1462_219_Zrn_A_1_MBD_22	603.85	23.67	23.63	206Pb/238U	265	2.09	0.80795	0.06362	0.09820	0.00403	601.30	36.05	35.42	603.85	23.67	23.63	591.73	160.49	152.78
P1462_219_Zrn_A_1_MBD_69	608.79	22.12	22.08	206Pb/238U	103	1.37	0.85315	0.07736	0.09904	0.00377	626.38	42.84	41.95	608.79	22.12	22.08	690.40	196.73	185.20
P1462_219_Zrn_A_1_MBD_92	672.74	28.84	28.78	206Pb/238U	270	6.26	0.98375	0.08797	0.11000	0.00496	695.53	45.53	44.54	672.74	28.84	28.78	769.90	188.50	177.83
P1462_219_Zrn_A_1_MBD_75	751.79	25.90	25.85	206Pb/238U	334	2.39	1.12585	0.06802	0.12369	0.00451	765.77	32.75	32.23	751.79	25.90	25.85	806.79	123.31	118.65
P1462_219_Zrn_A_1_MBD_41	762.56	43.36	43.21	206Pb/238U	162	10.12	1.28222	0.14382	0.12557	0.00756	837.84	65.02	63.00	762.56	43.36	43.21	1043.00	209.17	195.92
P1462_219_Zrn_A_1_MBD_78	792.87	28.54	28.47	206Pb/238U	272	1.57	1.28853	0.12073	0.13088	0.00500	840.65	54.28	52.87	792.87	28.54	28.47	969.03	192.61	181.36
P1462_219_Zrn_A_1_MBD_55	793.28	21.33	21.30	206Pb/238U	329	3.75	1.27427	0.08657	0.13095	0.00374	834.30	39.03	38.29	793.28	21.33	21.30	945.14	138.09	132.22
P1462_219_Zrn_A_1_MBD_36	805.29	34.90	34.80	206Pb/238U	209	4.37	1.23149	0.09102	0.13306	0.00613	815.01	41.85	41.00	805.29	34.90	34.80	841.67	141.35	135.24
P1462_219_Zrn_A_1_MBD_89	847.22	49.82	49.63	206Pb/238U	134	2.04	1.29012	0.15325	0.14045	0.00880	841.35	69.11	66.83	847.22	49.82	49.63	825.88	242.93	225.45
P1462_219_Zrn_A_1_MBD_6	849.97	22.51	22.47	206Pb/238U	202	3.45	1.30879	0.11761	0.14094	0.00398	849.60	52.39	51.07	849.97	22.51	22.47	848.62	188.25	177.57
P1462_219_Zrn_A_1_MBD_8	853.16	23.75	23.70	206Pb/238U	912	12.34	1.40232	0.06613	0.14150	0.00420	889.92	28.14	27.76	853.16	23.75	23.70	982.40	84.80	82.55
P1462_219_Zrn_A_1_MBD_56	859.88	82.13	81.61	206Pb/238U	35	1.32	1.44343	0.27754	0.14269	0.01451	907.15	118.74	112.18	859.88	82.13	81.61	1024.06	392.90	348.64
P1462_219_Zrn_A_1_MBD_27	864.87	23.83	23.79	206Pb/238U	297	1.61	1.42052	0.09623	0.14358	0.00422	897.58	40.78	39.97	864.87	23.83	23.79	979.01	133.81	128.28
P1462_219_Zrn_A_1_MBD_9	870.96	21.15	21.12	206Pb/238U	430	3.58	1.41259	0.08163	0.14466	0.00375	894.25	34.65	34.07	870.96	21.15	21.12	952.28	114.70	110.62
P1462_219_Zrn_A_1_MBD_70	878.97	27.28	27.22	206Pb/238U	294	2.82	1.44652	0.10129	0.14608	0.00484	908.43	42.48	41.61	878.97	27.28	27.22	980.73	141.67	135.48
P1462_219_Zrn_A_1_MBD_29	879.89	28.49	28.43	206Pb/238U	166	3.41	1.38248	0.12533	0.14625	0.00506	881.50	54.13	52.72	879.89	28.49	28.43	885.53	185.52	175.11
P1462_219_Zrn_A_1_MBD_15	882.27	65.04	64.71	206Pb/238U	57	3.07	1.37779	0.15965	0.14667	0.01154	879.50	69.35	67.06	882.27	65.04	64.71	872.52	233.95	217.65
P1462_219_Zrn_A_1_MBD_40	884.31	60.76	60.48	206Pb/238U	500	1.95	1.39919	0.15113	0.14703	0.01079	888.59	64.99	62.97	884.31	60.76	60.48	899.27	192.08	180.94
P1462_219_Zrn_A_1_MBD_2	885.68	28.29	28.22	206Pb/238U	322	4.68	1.49340	0.09881	0.14728	0.00503	927.70	40.64	39.85	885.68	28.29	28.22	1028.95	123.20	118.49
P1462_219_Zrn_A_1_MBD_59	900.83	49.81	49.62	206Pb/238U	138	2.87	1.40146	0.14165	0.14998	0.00887	889.55	60.79	59.03	900.83	49.81	49.62	861.61	199.51	187.54
P1462_219_Zrn_A_1_MBD_83	905.08	34.00	33.91	206Pb/238U	138	3.85	1.50629	0.12096	0.15074	0.00606	932.94	49.61	48.42	905.08	34.00	33.91	999.34	158.62	150.90
P1462_219_Zrn_A_1_MBD_4	919.04	44.24	44.09	206Pb/238U	165	1.82	1.55540	0.20859	0.15323	0.00790	952.64	84.62	81.24	919.04	44.24	44.09	1031.08	291.34	266.27
P1462_219_Zrn_A_1_MBD_71	927.16	31.70	31.62	206Pb/238U	178	3.96	1.54179	0.12121	0.15468	0.00567	947.22	49.01	47.85	927.16	31.70	31.62	994.14	162.47	154.39
P1462_219_Zrn_A_1_MBD_102	930.50	28.81	28.75	206Pb/238U	270	3.49	1.54556	0.07623	0.15528	0.00516	948.73	30.64	30.18	930.50	28.81	28.75	991.26	101.31	98.11
P1462_219_Zrn_A_1_MBD_65	951.33	25.14	25.09	206Pb/238U	252	3.60	1.61493	0.07825	0.15902	0.00452	976.03	30.61	30.16	951.33	25.14	25.09	1032.02	90.28	87.72
P1462_219_Zrn_A_1_MBD_64	961.09	82.84	82.31	206Pb/238U	84	2.69	1.83230	0.39135	0.16078	0.01487	1057.10	145.38	135.67	961.09	82.84	82.31	1261.10	415.81	365.97
P1462_219_Zrn_A_1_MBD_42	983.83	51.66	51.45	206Pb/238U	48	3.87	1.68932	0.25838	0.16488	0.00932	1004.51	99.98	95.28	983.83	51.66	51.45	1049.89	323.49	292.84
P1462_219_Zrn_A_1_MBD_45	988.36	32.98	32.89	206Pb/238U	203	14.16	1.71818	0.10102	0.16570	0.00596	1015.34	38.09	37.39	988.36	32.98	32.89	1074.01	106.26	102.73
P1462_219_Zrn_A_1_MBD_108	990.61	68.87	68.50	206Pb/238U	30	2.37	1.81566	0.30838	0.16610	0.01242	1051.12	114.37	108.27	990.61	68.87	68.50	1179.08	346.55	311.38
P1462_219_Zrn_A_1_MBD_106	994.51	28.68	28.62	206Pb/238U	122	1.92	1.51601	0.11636	0.16681	0.00519	936.87	47.51	46.42	994.51	28.68	28.62	803.65	162.93	154.89
P1462_219_Zrn_A_1_MBD_33	1006.68	34.70	34.61	206Pb/238U	124	3.75	1.74903	0.12228	0.16901	0.00628	1026.80	45.67	44.67	1006.68	34.70	34.61	1069.93	134.86	129.22
P1462_219_Zrn_A_1_MBD_48	1010.89	44.09	43.94	206Pb/238U	72	2.90	1.73147	0.13068	0.16978	0.00799	1020.30	49.17	48.01	1010.89	44.09	43.94	1040.54	155.86	148.39
P1462_219_Zrn_A_1_MBD_50	1022.31	56.46	54.93	207Pb/235Uc	344	2.30	1.73688	0.15008	0.16485	0.01013	1022.31	56.46	54.93	983.66	56.16	55.91	1105.99	145.25	138.71
P1462_219_Zrn_A_1_MBD_1	1027.96	33.45	33.36	206Pb/238U	178	3.68	1.79865	0.09634	0.17288	0.00608	1044.97	35.26	34.66	1027.96	33.45	33.36	1080.71	94.78	91.96
P1462_219_Zrn_A_1_MBD_39	1033.37	41.17	41.04	206Pb/238U	44	2.58	1.66518	0.19335	0.17386	0.00748	995.35	75.03	72.36	1033.37	41.17	41.04	912.51	244.54	226.74
P1462_219_Zrn_A_1_MBD_72	1113.07	35.25	35.15	206Pb/238U	497	4.21	2.13922	0.11862	0.18847	0.00649	1161.57	38.73	38.01	1113.07	35.25	35.15	1253.20	106.28	102.71
P1462_219_Zrn_A_1_MBD_73	1168.00	68.21	65.99	207Pb/235Uc	219	2.40	2.15917	0.20870	0.18294	0.01446	1168.00	68.21	65.99	1083.01	79.05	78.57	1329.18	132.47	126.95
P1462_219_Zrn_A_1_MBD_51	1171.28	40.72	40.60	206Pb/238U	229	5.01	2.17480	0.13641	0.19925	0.00756	1173.02	44.10	43.17	1171.28	40.72	40.60	1176.23	109.77	105.98
P1462_219_Zrn_A_1_MBD_5	1173.30	52.52	52.31	206Pb/238U	466	2.47	2.69182	0.42698	0.19962	0.00975	1326.21	120.97	114.17	1173.30	52.52	52.31	1582.56	315.04	285.13
P1462_219_Zrn_A_1_MBD_43	1181.05	31.24	31.16	206Pb/238U	326	2.40	2.21773	0.10445	0.20107	0.00581	1186.65	33.23	32.70	1181.05	31.24	31.16	1196.88	91.09	88.46

**Table 2.** U–Pb age data from the Cretaceous Colombian back–arc basin (*continued*).

Sample GPS–1211																			
Analysis name	Preferred age (Ma)	2–sigma	2 +sigma	Age type	[U] (ppm)	U/Th	207Pb/235U Ratio	2 sigma	206Pb/238U Ratio	2 sigma	207Pb/235Uc age (Ma)	2–sigma	2 +sigma	206Pb/238U age (Ma)	2–sigma	2 +sigma	207Pb/206Pb age (Ma)	2–sigma	2 +sigma
P1462_219_Zrn_A_1_MBD_14	1184.11	32.82	32.73	206Pb/238U	288	2.94	2.24980	0.11919	0.20164	0.00611	1196.73	37.59	36.90	1184.11	32.82	32.73	1219.58	94.06	91.26
P1462_219_Zrn_A_1_MBD_97	1187.11	54.34	54.11	206Pb/238U	42	2.64	2.20359	0.25277	0.20220	0.01011	1182.18	81.74	78.57	1187.11	54.34	54.11	1173.17	236.51	219.60
P1462_219_Zrn_A_1_MBD_87	1215.42	37.24	37.14	206Pb/238U	333	4.15	2.29270	0.13141	0.20749	0.00697	1210.04	40.93	40.12	1215.42	37.24	37.14	1200.45	104.44	101.00
P1462_219_Zrn_A_1_MBD_20	1228.54	54.45	53.03	207Pb/235Uc	314	3.05	2.35323	0.17742	0.20136	0.01228	1228.54	54.45	53.03	1182.63	66.06	65.72	1310.03	109.61	105.81
P1462_219_Zrn_A_1_MBD_84	1234.40	38.23	37.52	207Pb/235Uc	171	3.82	2.37266	0.12579	0.20852	0.00707	1234.40	38.23	37.52	1220.93	37.78	37.67	1258.01	100.47	97.27
P1462_219_Zrn_A_1_MBD_17	1273.31	46.87	45.81	207Pb/235Uc	205	5.47	2.50440	0.15990	0.20921	0.00949	1273.31	46.87	45.81	1224.60	50.70	50.50	1356.52	99.72	96.56
P1462_219_Zrn_A_1_MBD_28	1281.73	38.09	37.97	206Pb/238U	291	1.55	2.58372	0.14973	0.21997	0.00720	1296.04	42.87	41.99	1281.73	38.09	37.97	1319.81	101.49	98.22
P1462_219_Zrn_A_1_MBD_37	1283.22	38.71	38.59	206Pb/238U	642	9.90	2.67300	0.16150	0.22025	0.00732	1321.02	45.14	44.16	1283.22	38.71	38.59	1382.88	118.34	113.90
P1462_219_Zrn_A_1_MBD_0	1289.82	32.66	32.14	207Pb/235Uc	313	2.21	2.56185	0.11365	0.21662	0.00666	1289.82	32.66	32.14	1263.99	35.36	35.26	1333.09	80.00	77.95
P1462_219_Zrn_A_1_MBD_79	1376.95	41.74	40.90	207Pb/235Uc	372	2.24	2.88097	0.15791	0.22702	0.00941	1376.95	41.74	40.90	1318.89	49.52	49.33	1468.16	93.71	90.89
P1462_219_Zrn_A_1_MBD_76	1379.13	49.39	48.22	207Pb/235Uc	262	2.90	2.88934	0.18692	0.23409	0.01036	1379.13	49.39	48.22	1355.90	54.23	54.00	1415.28	116.95	112.61
P1462_219_Zrn_A_1_MBD_38	1389.74	56.53	56.28	206Pb/238U	102	1.36	3.24030	0.27143	0.24058	0.01086	1466.86	66.06	63.98	1389.74	56.53	56.28	1580.34	160.34	152.22
P1462_219_Zrn_A_1_MBD_18	1402.37	37.11	37.00	206Pb/238U	522	9.26	3.18478	0.16144	0.24302	0.00714	1453.47	39.55	38.80	1402.37	37.11	37.00	1529.01	89.17	86.61
P1462_219_Zrn_A_1_MBD_66	1434.11	51.39	50.12	207Pb/235Uc	280	1.43	3.10572	0.20520	0.24075	0.01205	1434.11	51.39	50.12	1390.60	62.76	62.45	1499.26	95.42	92.50
P1462_219_Zrn_A_1_MBD_32	1437.23	80.50	80.00	206Pb/238U	35	1.09	2.92707	0.42908	0.24976	0.01556	1388.94	114.09	108.02	1437.23	80.50	80.00	1315.51	289.70	264.54
P1462_219_Zrn_A_1_MBD_26	1444.66	41.50	40.67	207Pb/235Uc	264	2.30	3.14861	0.16783	0.24375	0.00774	1444.66	41.50	40.67	1406.15	40.19	40.07	1501.81	94.97	92.07
P1462_219_Zrn_A_1_MBD_81	1474.66	47.54	47.37	206Pb/238U	106	1.21	3.46783	0.23213	0.25704	0.00925	1519.93	53.45	52.08	1474.66	47.54	47.37	1583.55	114.41	110.22
P1462_219_Zrn_A_1_MBD_74	1492.61	61.17	59.38	207Pb/235Uc	612	3.30	3.34923	0.25812	0.24845	0.01444	1492.61	61.17	59.38	1430.46	74.80	74.36	1582.05	116.11	111.79
P1462_219_Zrn_A_1_MBD_107	1503.76	37.69	37.00	207Pb/235Uc	358	3.38	3.39725	0.16171	0.26200	0.00770	1503.76	37.69	37.00	1500.04	39.41	39.28	1509.01	84.11	81.83
P1462_219_Zrn_A_1_MBD_67	1534.99	97.84	93.35	207Pb/235Uc	108	1.95	3.53458	0.42660	0.26632	0.02110	1534.99	97.84	93.35	1522.12	107.86	106.97	1552.76	231.09	214.61
P1462_219_Zrn_A_1_MBD_19	1539.47	40.59	39.80	207Pb/235Uc	139	5.69	3.55465	0.18028	0.26388	0.00873	1539.47	40.59	39.80	1509.64	44.60	44.45	1580.69	89.46	86.87
P1462_219_Zrn_A_1_MBD_35	1608.58	53.79	52.40	207Pb/235Uc	334	0.88	3.87545	0.25488	0.27063	0.01202	1608.58	53.79	52.40	1543.99	61.12	60.84	1694.21	104.09	100.58
P1462_219_Zrn_A_1_MBD_80	1613.01	40.72	39.92	207Pb/235Uc	262	2.59	3.89677	0.19444	0.28289	0.00977	1613.01	40.72	39.92	1605.90	49.21	49.02	1622.31	81.96	79.78
P1462_219_Zrn_A_1_MBD_85	1624.71	46.79	45.73	207Pb/235Uc	163	1.54	3.95349	0.22564	0.27749	0.01128	1624.71	46.79	45.73	1578.69	57.03	56.77	1684.84	110.31	106.39
P1462_219_Zrn_A_1_MBD_3	1636.97	73.11	70.57	207Pb/235Uc	438	42.96	4.01365	0.35456	0.27872	0.02304	1636.97	73.11	70.57	1584.92	116.68	115.63	1704.48	146.61	139.75
P1462_219_Zrn_A_1_MBD_82	1639.15	37.44	36.76	207Pb/235Uc	438	1.66	4.02446	0.18357	0.28445	0.00789	1639.15	37.44	36.76	1613.75	39.68	39.56	1671.89	75.47	73.62
P1462_219_Zrn_A_1_MBD_47	1666.05	64.06	62.10	207Pb/235Uc	223	2.08	4.15936	0.32043	0.28502	0.01870	1666.05	64.06	62.10	1616.58	94.14	93.46	1728.97	91.92	89.18
P1462_219_Zrn_A_1_MBD_49	1705.21	56.70	55.16	207Pb/235Uc	160	1.74	4.36223	0.29528	0.29645	0.01243	1705.21	56.70	55.16	1673.70	61.96	61.66	1744.15	111.10	107.11
P1462_219_Zrn_A_1_MBD_94	1739.00	44.00	43.06	207Pb/235Uc	403	2.58	4.54363	0.23762	0.30163	0.01177	1739.00	44.00	43.06	1699.37	58.41	58.15	1786.99	78.12	76.12
P1462_219_Zrn_A_1_MBD_96	1773.76	47.65	46.56	207Pb/235Uc	248	1.21	4.73671	0.26609	0.31771	0.01241	1773.76	47.65	46.56	1778.54	60.87	60.59	1768.14	86.86	84.40
P1462_219_Zrn_A_1_MBD_103	1827.29	41.64	40.80	207Pb/235Uc	449	2.91	5.04729	0.24545	0.32294	0.01099	1827.29	41.64	40.80	1804.06	53.68	53.46	1853.88	86.05	83.63
P1462_219_Zrn_A_1_MBD_98	1833.38	49.43	48.25	207Pb/235Uc	196	1.71	5.08365	0.29258	0.32242	0.01304	1833.38	49.43	48.25	1801.53	63.70	63.39	1869.75	83.07	80.80
P1462_219_Zrn_A_1_MBD_93	1960.73	43.72	42.79	207Pb/235Uc	245	2.30	5.89655	0.29375	0.35524	0.01330	1960.73	43.72	42.79	1959.55	63.44	63.13	1961.97	71.00	69.34

  

Sample GPS–1220																			
Analysis name	Preferred age (Ma)	2–sigma	2 +sigma	Age type	[U] (ppm)	U/Th	207Pb/235U Ratio	2 sigma	206Pb/238U Ratio	2 sigma	207Pb/235Uc age (Ma)	2–sigma	2 +sigma	206Pb/238U age (Ma)	2–sigma	2 +sigma	207Pb/206Pb age (Ma)	2–sigma	2 +sigma
P1462_228_Zrn_A_1_MBD_40	281.72	25.95	25.90	206Pb/238U	482	2.87	0.35501	0.04183	0.04467	0.00420	308.48	31.59	31.10	281.72	25.95	25.90	516.05	227.33	212.22
P1462_228_Zrn_A_1_MBD_77	376.31	19.60	19.57	206Pb/238U	150	1.90	0.44913	0.06186	0.06011	0.00322	376.67	43.81	42.89	376.31	19.60	19.57	378.85	316.99	288.59
P1462_228_Zrn_A_1_MBD_1	387.69	10.30	10.29	206Pb/238U	381	1.89	0.44854	0.03617	0.06199	0.00170	376.25	25.52	25.20	387.69	10.30	10.29	306.45	188.72	178.32
P1462_228_Zrn_A_1_MBD_63	409.49	11.23	11.22	206Pb/238U	343	1.02	0.50315	0.04314	0.06558	0.00186	413.84	29.35	28.93	409.49	11.23	11.22	438.12	192.26	181.39
P1462_228_Zrn_A_1_MBD_56	418.64	18.29	18.26	206Pb/238U	268	0.81	0.54367	0.04295	0.06710	0.00303	440.84	28.45	28.06	418.64	18.29	18.26	558.49	165.66	157.47

**Table 2.** U–Pb age data from the Cretaceous Colombian back–arc basin (*continued*).

Analysis name	Preferred age (Ma)	Sample GPS–1220																	
		2 –sigma	2 +sigma	Age type	[U] (ppm)	U/Th	207Pb/235U Ratio	2 sigma	206Pb/238U Ratio	2 sigma	207Pb/235Uc age (Ma)	2 –sigma	2 +sigma	206Pb/238U age (Ma)	2 –sigma	2 +sigma	207Pb/206Pb age (Ma)	2 –sigma	2 +sigma
P1462_228_Zrn_A_1_MBD_35	423.06	17.71	17.69	206Pb/238U	834	2.07	0.54640	0.03852	0.06783	0.00293	442.63	25.45	25.14	423.06	17.71	17.69	545.71	148.79	142.16
P1462_228_Zrn_A_1_MBD_29	430.11	18.00	17.98	206Pb/238U	460	4.82	0.54716	0.04303	0.06900	0.00298	443.14	28.44	28.05	430.11	18.00	17.98	511.37	174.40	165.37
P1462_228_Zrn_A_1_MBD_48	434.05	15.62	15.60	206Pb/238U	723	1.19	0.53642	0.04023	0.06965	0.00259	436.06	26.77	26.42	434.05	15.62	15.60	446.72	161.84	154.07
P1462_228_Zrn_A_1_MBD_11	441.57	34.97	34.88	206Pb/238U	206	0.90	0.60921	0.24358	0.07090	0.00580	483.06	159.82	148.15	441.57	34.97	34.88	685.11	1003.19	760.68
P1462_228_Zrn_A_1_MBD_12	458.67	14.25	14.23	206Pb/238U	219	1.21	0.55006	0.04682	0.07374	0.00237	445.03	30.90	30.44	458.67	14.25	14.23	375.15	199.30	187.69
P1462_228_Zrn_A_1_MBD_98	496.66	37.58	37.47	206Pb/238U	87	1.14	0.65362	0.08847	0.08009	0.00629	510.71	55.06	53.61	496.66	37.58	37.47	574.08	305.77	278.95
P1462_228_Zrn_A_1_MBD_74	498.04	22.22	22.18	206Pb/238U	464	1.82	0.67995	0.06131	0.08032	0.00372	526.74	37.40	36.72	498.04	22.22	22.18	653.17	197.74	186.12
P1462_228_Zrn_A_1_MBD_42	523.14	27.94	27.88	206Pb/238U	90	0.80	0.60008	0.09892	0.08454	0.00470	477.29	63.76	61.82	523.14	27.94	27.88	262.54	393.19	350.69
P1462_228_Zrn_A_1_MBD_5	589.77	63.60	63.29	206Pb/238U	43	1.40	0.80992	0.22441	0.09580	0.01078	602.41	129.97	122.15	589.77	63.60	63.29	650.26	679.30	559.12
P1462_228_Zrn_A_1_MBD_81	606.52	22.28	22.24	206Pb/238U	225	3.22	0.87583	0.06887	0.09865	0.00379	638.73	37.63	36.94	606.52	22.28	22.24	754.38	158.60	150.99
P1462_228_Zrn_A_1_MBD_65	613.39	21.70	21.66	206Pb/238U	273	1.84	0.83591	0.06069	0.09983	0.00370	616.89	33.85	33.29	613.39	21.70	21.66	629.73	148.40	141.76
P1462_228_Zrn_A_1_MBD_83	730.08	71.60	71.21	206Pb/238U	17	1.60	1.15942	0.21934	0.11992	0.01241	781.68	105.85	100.60	730.08	71.60	71.21	931.97	403.20	356.94
P1462_228_Zrn_A_1_MBD_87	811.30	35.98	35.88	206Pb/238U	169	1.66	1.25565	0.09719	0.13411	0.00632	825.95	44.23	43.29	811.30	35.98	35.88	865.61	149.68	142.84
P1462_228_Zrn_A_1_MBD_13	865.63	22.28	22.25	206Pb/238U	554	1.74	1.37218	0.07255	0.14371	0.00395	877.10	31.29	30.82	865.63	22.28	22.25	906.16	103.61	100.28
P1462_228_Zrn_A_1_MBD_26	897.10	50.15	49.96	206Pb/238U	45	0.84	1.47035	0.19949	0.14931	0.00892	918.27	83.70	80.38	897.10	50.15	49.96	969.49	274.62	252.31
P1462_228_Zrn_A_1_MBD_68	909.63	26.76	26.70	206Pb/238U	208	3.47	1.42264	0.08293	0.15155	0.00477	898.47	35.06	34.46	909.63	26.76	26.70	871.13	109.11	105.43
P1462_228_Zrn_A_1_MBD_79	910.40	29.86	29.79	206Pb/238U	147	1.85	1.53027	0.13577	0.15168	0.00533	942.61	55.23	53.77	910.40	29.86	29.79	1018.63	175.69	166.26
P1462_228_Zrn_A_1_MBD_107	913.66	36.68	36.57	206Pb/238U	242	3.50	1.51510	0.10720	0.15227	0.00655	936.50	43.75	42.82	913.66	36.68	36.57	990.63	141.75	135.55
P1462_228_Zrn_A_1_MBD_3	925.73	24.09	24.04	206Pb/238U	181	3.38	1.48237	0.13231	0.15443	0.00431	923.20	54.85	53.41	925.73	24.09	24.04	917.17	186.94	176.36
P1462_228_Zrn_A_1_MBD_27	929.25	46.58	46.41	206Pb/238U	111	1.37	1.46787	0.13719	0.15506	0.00833	917.25	57.24	55.67	929.25	46.58	46.41	888.49	190.98	179.97
P1462_228_Zrn_A_1_MBD_34	930.82	32.46	32.38	206Pb/238U	172	3.23	1.43187	0.11752	0.15534	0.00581	902.33	49.67	48.49	930.82	32.46	32.38	833.19	168.38	159.79
P1462_228_Zrn_A_1_MBD_17	933.10	36.06	35.96	206Pb/238U	134	3.08	1.53594	0.10300	0.15575	0.00646	944.88	41.66	40.83	933.10	36.06	35.96	972.44	131.94	126.56
P1462_228_Zrn_A_1_MBD_54	934.01	25.80	25.75	206Pb/238U	380	2.72	1.61898	0.09445	0.15591	0.00462	977.59	36.95	36.29	934.01	25.80	25.75	1076.85	112.11	108.18
P1462_228_Zrn_A_1_MBD_19	935.31	29.44	29.37	206Pb/238U	305	3.86	1.60676	0.08605	0.15614	0.00527	972.84	33.80	33.25	935.31	29.44	29.37	1058.60	105.75	102.25
P1462_228_Zrn_A_1_MBD_86	940.61	31.92	31.84	206Pb/238U	519	4.23	1.59092	0.09638	0.15709	0.00572	966.66	38.13	37.42	940.61	31.92	31.84	1026.37	112.31	108.38
P1462_228_Zrn_A_1_MBD_90	941.46	38.98	38.86	206Pb/238U	215	2.62	1.61367	0.11485	0.15725	0.00699	975.54	45.11	44.13	941.46	38.98	38.86	1053.08	132.78	127.31
P1462_228_Zrn_A_1_MBD_16	941.84	28.13	28.06	206Pb/238U	211	2.33	1.56401	0.09133	0.15732	0.00504	956.06	36.49	35.85	941.84	28.13	28.06	988.90	118.70	114.33
P1462_228_Zrn_A_1_MBD_96	943.94	38.48	38.37	206Pb/238U	155	2.32	1.46719	0.10131	0.15769	0.00690	916.97	42.13	41.27	943.94	38.48	38.37	852.64	129.18	124.05
P1462_228_Zrn_A_1_MBD_18	945.00	29.41	29.34	206Pb/238U	187	2.05	1.52418	0.09785	0.15788	0.00528	940.16	39.75	38.99	945.00	29.41	29.34	928.84	123.73	119.00
P1462_228_Zrn_A_1_MBD_7	946.30	52.33	52.12	206Pb/238U	70	2.80	1.52869	0.15669	0.15812	0.00938	941.97	63.92	61.96	946.30	52.33	52.12	931.87	199.54	187.52
P1462_228_Zrn_A_1_MBD_41	947.87	42.16	41.30	207Pb/235Uc	405	9.77	1.54342	0.10451	0.15147	0.00839	947.87	42.16	41.30	909.17	47.08	46.91	1038.86	105.32	101.85
P1462_228_Zrn_A_1_MBD_21	953.71	29.24	29.17	206Pb/238U	158	2.66	1.51638	0.10062	0.15945	0.00525	937.02	41.01	40.20	953.71	29.24	29.17	897.97	131.62	126.29
P1462_228_Zrn_A_1_MBD_99	956.57	37.85	37.74	206Pb/238U	112	1.90	1.58834	0.11703	0.15996	0.00680	965.65	46.44	45.40	956.57	37.85	37.74	986.36	148.56	141.77
P1462_228_Zrn_A_1_MBD_46	957.24	35.65	35.56	206Pb/238U	100	2.31	1.55979	0.09988	0.16008	0.00641	954.38	40.01	39.24	957.24	35.65	35.56	947.81	134.30	128.74
P1462_228_Zrn_A_1_MBD_97	957.90	29.89	29.82	206Pb/238U	93	1.41	1.53100	0.09686	0.16020	0.00537	942.90	39.23	38.49	957.90	29.89	29.82	908.03	126.97	122.01
P1462_228_Zrn_A_1_MBD_20	958.21	43.66	43.51	206Pb/238U	53	1.44	1.58054	0.14864	0.16026	0.00784	962.58	59.35	57.66	958.21	43.66	43.51	972.59	203.40	190.90
P1462_228_Zrn_A_1_MBD_52	963.00	50.07	49.88	206Pb/238U	91	2.44	1.55710	0.14765	0.16112	0.00900	953.32	59.49	57.80	963.00	50.07	49.88	931.04	189.76	178.86
P1462_228_Zrn_A_1_MBD_4	970.06	28.97	28.91	206Pb/238U	220	3.01	1.55950	0.09259	0.16239	0.00522	954.27	37.07	36.40	970.06	28.97	28.91	918.03	113.82	109.81
P1462_228_Zrn_A_1_MBD_73	970.34	33.67	33.58	206Pb/238U	153	2.65	1.61795	0.12847	0.16244	0.00606	977.20	50.45	49.22	970.34	33.67	33.58	992.64	155.47	148.05
P1462_228_Zrn_A_1_MBD_91	971.79	29.81	29.74	206Pb/238U	187	4.07	1.58651	0.11101	0.16270	0.00537	964.93	44.05	43.12	971.79	29.81	29.74	949.33	145.00	138.54
P1462_228_Zrn_A_1_MBD_58	983.39	30.33	30.26	206Pb/238U	343	6.08	1.68178	0.09358	0.16480	0.00547	1001.66	35.74	35.13	983.39	30.33	30.26	1041.85	104.72	101.29
P1462_228_Zrn_A_1_MBD_28	987.26	44.55	44.40	206Pb/238U	110	3.73	1.67895	0.15021	0.16550	0.00804	1000.59	57.75	56.15	987.26	44.55	44.40	1029.89	188.31	177.51



**Table 2.** U–Pb age data from the Cretaceous Colombian back–arc basin (*continued*).

Analysis name	Preferred age (Ma)	Sample GPS–1220																	
		2–sigma	2 +sigma	Age type	[U] (ppm)	U/Th	207Pb/235U Ratio	2 sigma	206Pb/238U Ratio	2 sigma	207Pb/235Uc age (Ma)	2–sigma	2 +sigma	206Pb/238U age (Ma)	2–sigma	2 +sigma	207Pb/206Pb age (Ma)	2–sigma	2 +sigma
P1462_228_Zrn_A_1_MBD_82	987.67	35.08	34.98	206Pb/238U	101	3.77	1.56745	0.10979	0.16557	0.00633	957.42	43.89	42.96	987.67	35.08	34.98	888.55	136.10	130.42
P1462_228_Zrn_A_1_MBD_95	989.61	38.25	38.14	206Pb/238U	83	2.69	1.74685	0.16227	0.16592	0.00691	1026.00	60.89	59.11	989.61	38.25	38.14	1104.44	179.98	170.05
P1462_228_Zrn_A_1_MBD_38	991.46	35.40	35.30	206Pb/238U	104	2.41	1.62341	0.17926	0.16626	0.00640	979.31	70.59	68.22	991.46	35.40	35.30	952.16	225.96	210.65
P1462_228_Zrn_A_1_MBD_51	999.87	27.49	27.43	206Pb/238U	359	3.97	1.69767	0.08117	0.16778	0.00498	1007.66	30.78	30.32	999.87	27.49	27.43	1024.62	88.59	86.12
P1462_228_Zrn_A_1_MBD_89	1000.23	31.50	31.42	206Pb/238U	353	3.56	1.66367	0.09290	0.16785	0.00570	994.78	35.72	35.11	1000.23	31.50	31.42	982.77	108.36	104.71
P1462_228_Zrn_A_1_MBD_36	1000.39	49.58	49.39	206Pb/238U	41	2.73	1.70445	0.23249	0.16788	0.00897	1010.21	89.22	85.46	1000.39	49.58	49.39	1031.54	285.65	261.51
P1462_228_Zrn_A_1_MBD_62	1003.49	33.93	33.85	206Pb/238U	54	3.26	1.69656	0.20268	0.16844	0.00614	1007.24	77.79	74.92	1003.49	33.93	33.85	1015.39	249.83	231.19
P1462_228_Zrn_A_1_MBD_25	1008.99	25.47	25.42	206Pb/238U	188	4.08	1.65889	0.10701	0.16943	0.00462	992.95	41.28	40.46	1008.99	25.47	25.42	957.69	131.43	126.10
P1462_228_Zrn_A_1_MBD_84	1009.58	36.61	36.51	206Pb/238U	219	3.07	1.74279	0.10415	0.16954	0.00663	1024.50	38.93	38.20	1009.58	36.61	36.51	1056.50	118.22	113.87
P1462_228_Zrn_A_1_MBD_59	1015.03	30.13	30.06	206Pb/238U	268	3.45	1.73662	0.09381	0.17053	0.00546	1022.21	35.11	34.51	1015.03	30.13	30.06	1037.63	104.69	101.26
P1462_228_Zrn_A_1_MBD_108	1015.11	46.93	46.76	206Pb/238U	46	4.29	1.73977	0.17714	0.17054	0.00851	1023.38	66.73	64.61	1015.11	46.93	46.76	1041.11	206.66	193.71
P1462_228_Zrn_A_1_MBD_66	1019.93	29.24	28.83	207Pb/235Uc	457	4.39	1.73048	0.07807	0.17464	0.00569	1019.93	29.24	28.83	1037.65	31.25	31.18	982.09	78.17	76.25
P1462_228_Zrn_A_1_MBD_45	1023.20	51.59	51.38	206Pb/238U	115	2.45	1.84924	0.15116	0.17201	0.00936	1063.16	54.59	53.17	1023.20	51.59	51.38	1146.12	144.21	137.75
P1462_228_Zrn_A_1_MBD_53	1025.09	61.08	60.79	206Pb/238U	96	2.44	1.85079	0.25137	0.17236	0.01108	1063.71	91.56	87.61	1025.09	61.08	60.79	1143.81	275.49	252.84
P1462_228_Zrn_A_1_MBD_23	1035.24	64.59	64.27	206Pb/238U	32	4.29	1.91312	0.27440	0.17421	0.01174	1085.67	97.97	93.46	1035.24	64.59	64.27	1188.31	286.53	262.05
P1462_228_Zrn_A_1_MBD_102	1045.12	37.78	37.67	206Pb/238U	70	2.30	1.85011	0.14569	0.17601	0.00688	1063.47	52.58	51.25	1045.12	37.78	37.67	1101.31	160.15	152.24
P1462_228_Zrn_A_1_MBD_10	1046.89	31.07	30.99	206Pb/238U	286	1.48	1.85944	0.09988	0.17633	0.00566	1066.79	35.78	35.16	1046.89	31.07	30.99	1107.70	96.94	93.98
P1462_228_Zrn_A_1_MBD_104	1048.26	26.03	25.98	206Pb/238U	169	2.87	1.86591	0.09345	0.17658	0.00475	1069.08	33.38	32.84	1048.26	26.03	25.98	1111.82	101.42	98.19
P1462_228_Zrn_A_1_MBD_103	1052.51	107.02	106.14	206Pb/238U	14	6.15	1.85318	0.39600	0.17736	0.01947	1064.56	146.06	136.25	1052.51	107.02	106.14	1089.34	468.23	406.48
P1462_228_Zrn_A_1_MBD_37	1057.52	40.37	39.58	207Pb/235Uc	291	2.63	1.83345	0.11154	0.17715	0.00838	1057.52	40.37	39.58	1051.38	45.99	45.83	1070.20	96.96	94.01
P1462_228_Zrn_A_1_MBD_109	1058.45	30.99	30.92	206Pb/238U	231	2.95	1.84267	0.10677	0.17844	0.00566	1060.81	38.50	37.78	1058.45	30.99	30.92	1065.67	117.31	113.02
P1462_228_Zrn_A_1_MBD_60	1110.69	49.16	48.97	206Pb/238U	72	3.42	1.87978	0.20187	0.18803	0.00904	1073.99	72.45	69.96	1110.69	49.16	48.97	1000.21	213.80	200.01
P1462_228_Zrn_A_1_MBD_43	1113.87	34.78	34.20	207Pb/235Uc	421	4.99	1.99516	0.10173	0.18723	0.00673	1113.87	34.78	34.20	1106.37	36.57	36.47	1128.55	95.54	92.66
P1462_228_Zrn_A_1_MBD_78	1115.46	41.65	40.81	207Pb/235Uc	115	1.12	1.99985	0.12179	0.19183	0.00826	1115.46	41.65	40.81	1131.29	44.76	44.60	1084.75	101.47	98.24
P1462_228_Zrn_A_1_MBD_32	1145.87	33.28	33.20	206Pb/238U	90	2.18	2.04614	0.18157	0.19453	0.00616	1131.01	61.44	59.64	1145.87	33.28	33.20	1102.59	179.96	170.03
P1462_228_Zrn_A_1_MBD_57	1156.86	32.47	32.39	206Pb/238U	227	3.21	2.18072	0.11781	0.19657	0.00602	1174.91	37.96	37.27	1156.86	32.47	32.39	1208.32	96.66	93.71
P1462_228_Zrn_A_1_MBD_105	1162.97	32.37	31.86	207Pb/235Uc	245	3.07	2.14355	0.09942	0.19510	0.00700	1162.97	32.37	31.86	1148.97	37.82	37.71	1189.15	74.75	72.98
P1462_228_Zrn_A_1_MBD_85	1201.06	46.90	45.84	207Pb/235Uc	253	3.22	2.26370	0.14901	0.20078	0.01195	1201.06	46.90	45.84	1179.49	64.29	63.97	1240.06	134.05	128.43
P1462_228_Zrn_A_1_MBD_64	1278.18	64.78	62.78	207Pb/235Uc	73	0.88	2.52124	0.22112	0.20937	0.01300	1278.18	64.78	62.78	1225.45	69.46	69.08	1367.97	150.62	143.50
P1462_228_Zrn_A_1_MBD_9	1287.59	41.74	40.90	207Pb/235Uc	299	1.11	2.55402	0.14459	0.21227	0.00914	1287.59	41.74	40.90	1240.90	48.69	48.51	1366.33	86.78	84.37
P1462_228_Zrn_A_1_MBD_22	1310.02	38.59	38.48	206Pb/238U	118	2.99	2.70154	0.18953	0.22534	0.00733	1328.88	52.67	51.34	1310.02	38.59	38.48	1359.42	133.87	128.22
P1462_228_Zrn_A_1_MBD_31	1315.20	56.00	54.50	207Pb/235Uc	224	1.62	2.65201	0.19867	0.21764	0.01389	1315.20	56.00	54.50	1269.40	73.74	73.32	1390.67	133.60	127.97
P1462_228_Zrn_A_1_MBD_30	1320.95	39.30	39.17	206Pb/238U	128	3.72	2.88456	0.22443	0.22742	0.00747	1377.89	59.53	57.83	1320.95	39.30	39.17	1467.24	146.69	139.90
P1462_228_Zrn_A_1_MBD_70	1346.15	33.18	32.65	207Pb/235Uc	223	2.09	2.76504	0.12203	0.23060	0.00723	1346.15	33.18	32.65	1337.66	37.91	37.80	1359.68	73.61	71.87
P1462_228_Zrn_A_1_MBD_33	1372.40	40.50	40.37	206Pb/238U	193	1.02	2.93187	0.19836	0.23725	0.00776	1390.18	51.88	50.59	1372.40	40.50	40.37	1417.56	127.66	122.50
P1462_228_Zrn_A_1_MBD_100	1392.61	45.61	44.61	207Pb/235Uc	112	1.20	2.94129	0.17507	0.23754	0.00917	1392.61	45.61	44.61	1373.89	47.88	47.70	1421.39	103.15	99.75
P1462_228_Zrn_A_1_MBD_0	1395.24	32.77	32.25	207Pb/235Uc	469	2.08	2.95153	0.12651	0.23411	0.00661	1395.24	32.77	32.25	1356.00	34.60	34.51	1455.75	74.72	72.92
P1462_228_Zrn_A_1_MBD_55	1400.51	39.69	39.57	206Pb/238U	137	1.12	3.05836	0.19299	0.24266	0.00764	1422.33	48.87	47.72	1400.51	39.69	39.57	1455.14	119.24	114.72
P1462_228_Zrn_A_1_MBD_71	1404.53	53.98	53.75	206Pb/238U	92	1.72	3.09827	0.25221	0.24343	0.01039	1432.27	63.47	61.54	1404.53	53.98	53.75	1473.72	143.33	136.84
P1462_228_Zrn_A_1_MBD_14	1405.12	62.61	62.30	206Pb/238U	81	2.24	3.29527	0.50314	0.24355	0.01205	1479.94	122.57	115.59	1405.12	62.61	62.30	1588.91	301.83	274.26
P1462_228_Zrn_A_1_MBD_93	1408.88	69.53	69.15	206Pb/238U	93	1.65	3.06170	0.30896	0.24427	0.01338	1423.16	78.74	75.80	1408.88	69.53	69.15	1444.59	182.83	172.41
P1462_228_Zrn_A_1_MBD_76	1414.16	54.07	53.84	206Pb/238U	64	1.01	3.00299	0.23262	0.24529	0.01042	1408.38	59.88	58.16	1414.16	54.07	53.84	1399.64	135.99	130.16

**Table 2.** U–Pb age data from the Cretaceous Colombian back–arc basin (*continued*).

Sample GPS–1220																			
Analysis name	Preferred age (Ma)	2 –sigma	2 +sigma	Age type	[U] (ppm)	U/Th	207Pb/235U Ratio	2 sigma	206Pb/238U Ratio	2 sigma	207Pb/235Uc age (Ma)	2 –sigma	2 +sigma	206Pb/238U age (Ma)	2 –sigma	2 +sigma	207Pb/206Pb age (Ma)	2 –sigma	2 +sigma
P1462_228_Zrn_A_1_MBD_47	1429.24	70.92	70.53	206Pb/238U	30	0.82	3.06667	0.28573	0.24821	0.01369	1424.40	72.63	70.12	1429.24	70.92	70.53	1417.19	168.35	159.49
P1462_228_Zrn_A_1_MBD_49	1433.48	58.85	58.58	206Pb/238U	70	1.92	3.20445	0.24774	0.24903	0.01138	1458.24	60.73	58.96	1433.48	58.85	58.58	1494.50	134.49	128.75
P1462_228_Zrn_A_1_MBD_50	1436.06	39.85	39.73	206Pb/238U	205	2.98	3.20409	0.16961	0.24953	0.00771	1458.15	41.38	40.56	1436.06	39.85	39.73	1490.48	90.52	87.89
P1462_228_Zrn_A_1_MBD_92	1503.81	41.23	40.41	207Pb/235Uc	417	1.38	3.39744	0.17676	0.26285	0.01103	1503.81	41.23	40.41	1504.39	56.42	56.17	1502.98	80.27	78.19
P1462_228_Zrn_A_1_MBD_80	1518.73	39.31	38.56	207Pb/235Uc	244	1.98	3.46253	0.17109	0.25670	0.00804	1518.73	39.31	38.56	1472.94	41.32	41.18	1583.14	81.85	79.68
P1462_228_Zrn_A_1_MBD_101	1519.52	53.26	51.90	207Pb/235Uc	92	1.68	3.46601	0.23121	0.26116	0.01040	1519.52	53.26	51.90	1495.75	53.26	53.04	1552.78	111.59	107.60
P1462_228_Zrn_A_1_MBD_88	1531.51	39.88	39.11	207Pb/235Uc	228	2.98	3.51906	0.17574	0.25996	0.01076	1531.51	39.88	39.11	1489.66	55.19	54.96	1589.80	71.57	69.90
P1462_228_Zrn_A_1_MBD_39	1541.69	50.44	49.22	207Pb/235Uc	189	1.97	3.56460	0.22395	0.26790	0.01392	1541.69	50.44	49.22	1530.11	70.96	70.58	1557.59	83.33	81.08
P1462_228_Zrn_A_1_MBD_6	1569.50	47.68	47.50	206Pb/238U	208	1.31	4.03601	0.26821	0.27567	0.00942	1641.48	54.81	53.37	1569.50	47.68	47.50	1734.95	113.26	109.12
P1462_228_Zrn_A_1_MBD_75	1608.02	34.47	33.89	207Pb/235Uc	326	1.88	3.87277	0.16400	0.27845	0.00916	1608.02	34.47	33.89	1583.54	46.28	46.12	1640.24	62.32	61.05
P1462_228_Zrn_A_1_MBD_106	1631.74	39.70	38.94	207Pb/235Uc	298	3.32	3.98791	0.19312	0.28249	0.00967	1631.74	39.70	38.94	1603.87	48.71	48.52	1667.85	81.72	79.55
P1462_228_Zrn_A_1_MBD_44	1654.00	57.37	55.79	207Pb/235Uc	147	1.99	4.09849	0.28402	0.27789	0.01399	1654.00	57.37	55.79	1580.74	70.77	70.39	1748.36	109.86	105.95
P1462_228_Zrn_A_1_MBD_8	1684.35	52.28	50.97	207Pb/235Uc	104	1.04	4.25317	0.26701	0.28911	0.01063	1684.35	52.28	50.97	1637.09	53.28	53.06	1743.72	111.29	107.28
P1462_228_Zrn_A_1_MBD_69	1780.71	51.43	50.16	207Pb/235Uc	71	2.22	4.77610	0.28888	0.30518	0.01390	1780.71	51.43	50.16	1716.96	68.85	68.49	1856.26	103.23	99.76
P1462_228_Zrn_A_1_MBD_72	1910.75	39.82	39.06	207Pb/235Uc	204	1.51	5.56531	0.25497	0.33714	0.01009	1910.75	39.82	39.06	1872.89	48.73	48.55	1952.10	75.22	73.35
P1462_228_Zrn_A_1_MBD_94	1939.88	42.19	41.33	207Pb/235Uc	244	2.90	5.75642	0.27785	0.34590	0.01134	1939.88	42.19	41.33	1914.99	54.45	54.22	1966.57	75.53	73.64

  

Sample GPS–1238																			
Analysis name	Preferred age (Ma)	2 –sigma	2 +sigma	Age type	[U] (ppm)	U/Th	207Pb/235U Ratio	2 sigma	206Pb/238U Ratio	2 sigma	207Pb/235Uc age (Ma)	2 –sigma	2 +sigma	206Pb/238U age (Ma)	2 –sigma	2 +sigma	207Pb/206Pb age (Ma)	2 –sigma	2 +sigma
P1462_246_Zrn_A_1_MBD_84	303.97	25.93	25.87	206Pb/238U	55	1.27	0.34128	0.06402	0.04828	0.00421	298.14	49.06	47.90	303.97	25.93	25.87	252.71	463.19	405.35
P1462_246_Zrn_A_1_MBD_73	439.91	33.74	33.65	206Pb/238U	156	0.96	0.53221	0.06117	0.07062	0.00560	433.27	40.95	40.14	439.91	33.74	33.65	398.13	245.60	228.18
P1462_246_Zrn_A_1_MBD_0	498.96	18.80	18.78	206Pb/238U	690	6.01	0.66843	0.05341	0.08048	0.00315	519.76	32.77	32.25	498.96	18.80	18.78	612.22	167.01	158.66
P1462_246_Zrn_A_1_MBD_65	572.37	29.61	29.54	206Pb/238U	128	2.00	0.73324	0.08409	0.09285	0.00501	558.45	49.87	48.67	572.37	29.61	29.54	502.11	258.08	238.79
P1462_246_Zrn_A_1_MBD_3	574.85	23.99	23.95	206Pb/238U	224	4.34	0.79493	0.06837	0.09327	0.00407	593.96	39.05	38.31	574.85	23.99	23.95	667.64	186.06	175.73
P1462_246_Zrn_A_1_MBD_9	576.48	25.29	25.24	206Pb/238U	114	1.87	0.81066	0.07207	0.09355	0.00429	602.82	40.82	40.02	576.48	25.29	25.24	703.16	193.78	182.57
P1462_246_Zrn_A_1_MBD_49	589.82	25.42	25.37	206Pb/238U	265	1.53	0.80810	0.05970	0.09581	0.00432	601.39	33.81	33.25	589.82	25.42	25.37	645.22	151.32	144.42
P1462_246_Zrn_A_1_MBD_38	700.14	48.62	48.43	206Pb/238U	315	1.82	1.08161	0.12594	0.11473	0.00839	744.42	62.38	60.52	700.14	48.62	48.43	879.97	205.59	192.89
P1462_246_Zrn_A_1_MBD_46	873.23	46.93	46.76	206Pb/238U	85	3.30	1.36131	0.19237	0.14506	0.00832	872.44	84.45	81.08	873.23	46.93	46.76	870.41	310.02	282.03
P1462_246_Zrn_A_1_MBD_76	894.86	32.90	32.82	206Pb/238U	116	3.41	1.41292	0.13323	0.14891	0.00586	894.39	56.85	55.31	894.86	32.90	32.82	893.22	197.94	186.13
P1462_246_Zrn_A_1_MBD_51	913.16	40.71	40.58	206Pb/238U	159	2.00	1.44959	0.10796	0.15218	0.00726	909.70	45.25	44.27	913.16	40.71	40.58	901.32	143.29	137.00
P1462_246_Zrn_A_1_MBD_72	919.84	56.93	56.68	206Pb/238U	58	3.04	1.57036	0.18470	0.15337	0.01016	958.57	74.31	71.68	919.84	56.93	56.68	1048.51	230.13	214.19
P1462_246_Zrn_A_1_MBD_25	931.95	36.58	36.48	206Pb/238U	131	3.56	1.46737	0.12503	0.15554	0.00655	917.05	52.12	50.81	931.95	36.58	36.48	881.36	171.46	162.53
P1462_246_Zrn_A_1_MBD_15	933.19	34.76	34.67	206Pb/238U	282	2.53	1.66219	0.11723	0.15576	0.00622	994.21	45.21	44.23	933.19	34.76	34.67	1131.38	139.68	133.61
P1462_246_Zrn_A_1_MBD_27	935.88	55.37	53.90	207Pb/235Uc	96	2.56	1.51357	0.13521	0.15883	0.01026	935.88	55.37	53.90	950.28	57.22	56.97	902.13	168.13	159.53
P1462_246_Zrn_A_1_MBD_81	938.53	75.16	74.73	206Pb/238U	72	2.85	1.50028	0.19789	0.15672	0.01345	930.50	82.00	78.81	938.53	75.16	74.73	911.53	232.74	216.57
P1462_246_Zrn_A_1_MBD_78	963.95	38.54	38.43	206Pb/238U	84	4.91	1.67778	0.15454	0.16129	0.00693	1000.14	59.46	57.77	963.95	38.54	38.43	1080.35	190.12	179.09
P1462_246_Zrn_A_1_MBD_24	966.99	39.62	39.50	206Pb/238U	83	1.76	1.60718	0.11729	0.16184	0.00713	973.01	46.20	45.17	966.99	39.62	39.50	986.64	151.24	144.22
P1462_246_Zrn_A_1_MBD_108	970.18	39.24	39.12	206Pb/238U	190	2.96	1.65291	0.12636	0.16241	0.00706	990.67	48.95	47.80	970.18	39.24	39.12	1036.31	146.17	139.57
P1462_246_Zrn_A_1_MBD_48	973.43	34.40	34.31	206Pb/238U	154	3.19	1.65144	0.10537	0.16300	0.00620	990.10	40.76	39.96	973.43	34.40	34.31	1027.24	117.70	113.39
P1462_246_Zrn_A_1_MBD_62	993.85	43.49	43.35	206Pb/238U	126	4.07	1.71747	0.14990	0.16669	0.00786	1015.08	56.80	55.25	993.85	43.49	43.35	1061.18	166.71	158.18
P1462_246_Zrn_A_1_MBD_22	997.29	36.15	36.05	206Pb/238U	194	1.28	1.82131	0.15136	0.16731	0.00654	1053.16	55.22	53.76	997.29	36.15	36.05	1170.89	159.63	151.75

**Table 2.** U–Pb age data from the Cretaceous Colombian back–arc basin (*continued*).

Sample GPS–1238																			
Analysis name	Preferred age (Ma)	2–sigma	2 +sigma	Age type	[U] (ppm)	U/Th	207Pb/235U Ratio	2 sigma	206Pb/238U Ratio	2 sigma	207Pb/235Uc age (Ma)	2–sigma	2 +sigma	206Pb/238U age (Ma)	2–sigma	2 +sigma	207Pb/206Pb age (Ma)	2–sigma	2 +sigma
P1462_246_Zrn_A_1_MBD_102	1011.06	36.85	36.75	206Pb/238U	184	2.24	1.72608	0.10750	0.16981	0.00668	1018.29	40.44	39.65	1011.06	36.85	36.75	1033.89	130.72	125.42
P1462_246_Zrn_A_1_MBD_93	1012.27	57.54	57.28	206Pb/238U	114	2.40	1.58166	0.16953	0.17003	0.01042	963.02	67.80	65.61	1012.27	57.54	57.28	852.21	216.20	202.22
P1462_246_Zrn_A_1_MBD_90	1022.26	54.43	53.01	207Pb/235Uc	54	1.60	1.73674	0.14477	0.17219	0.01030	1022.26	54.43	53.01	1024.19	56.74	56.49	1018.12	182.30	172.17
P1462_246_Zrn_A_1_MBD_101	1038.30	41.30	41.17	206Pb/238U	79	2.68	1.79947	0.20637	0.17476	0.00751	1045.27	76.26	73.50	1038.30	41.30	41.17	1059.85	237.46	220.51
P1462_246_Zrn_A_1_MBD_67	1061.80	70.45	70.07	206Pb/238U	67	2.62	1.75215	0.21816	0.17905	0.01285	1027.96	82.13	78.93	1061.80	70.45	70.07	956.61	249.06	230.58
P1462_246_Zrn_A_1_MBD_106	1065.94	63.26	61.35	207Pb/235Uc	129	2.88	1.85707	0.17526	0.17267	0.01124	1065.94	63.26	61.35	1026.82	61.96	61.67	1146.92	165.40	156.95
P1462_246_Zrn_A_1_MBD_43	1087.72	47.77	47.59	206Pb/238U	67	1.80	1.78752	0.22915	0.18380	0.00876	1040.92	85.23	81.80	1087.72	47.77	47.59	943.92	267.29	246.14
P1462_246_Zrn_A_1_MBD_88	1090.89	51.09	50.88	206Pb/238U	126	2.62	1.91052	0.16630	0.18439	0.00937	1084.77	58.86	57.20	1090.89	51.09	50.88	1072.48	164.73	156.39
P1462_246_Zrn_A_1_MBD_66	1117.88	39.80	39.67	206Pb/238U	221	3.72	2.08339	0.14325	0.18935	0.00733	1143.35	47.73	46.63	1117.88	39.80	39.67	1192.01	129.97	124.69
P1462_246_Zrn_A_1_MBD_44	1144.59	38.27	38.16	206Pb/238U	150	3.05	2.06847	0.13706	0.19429	0.00708	1138.43	45.87	44.85	1144.59	38.27	38.16	1126.69	129.91	124.65
P1462_246_Zrn_A_1_MBD_64	1174.78	37.38	37.27	206Pb/238U	174	1.51	2.28358	0.15522	0.19990	0.00695	1207.23	48.57	47.44	1174.78	37.38	37.27	1265.74	132.58	127.07
P1462_246_Zrn_A_1_MBD_13	1196.94	44.93	44.78	206Pb/238U	76	1.80	2.26019	0.22830	0.20403	0.00838	1199.96	72.38	69.89	1196.94	44.93	44.78	1205.41	198.43	186.37
P1462_246_Zrn_A_1_MBD_52	1213.07	38.20	38.09	206Pb/238U	311	1.65	2.30898	0.15135	0.20705	0.00714	1215.05	46.98	45.92	1213.07	38.20	38.09	1218.56	131.87	126.43
P1462_246_Zrn_A_1_MBD_33	1217.08	41.23	40.41	207Pb/235Uc	802	1.66	2.31561	0.13329	0.20463	0.00864	1217.08	41.23	40.41	1200.16	46.33	46.17	1247.21	91.49	88.83
P1462_246_Zrn_A_1_MBD_20	1222.76	57.28	57.02	206Pb/238U	170	1.97	2.47034	0.20867	0.20886	0.01072	1263.39	61.99	60.16	1222.76	57.28	57.02	1333.26	154.24	146.80
P1462_246_Zrn_A_1_MBD_56	1239.23	47.19	46.12	207Pb/235Uc	421	3.00	2.38875	0.15567	0.21040	0.00909	1239.23	47.19	46.12	1230.95	48.51	48.33	1253.68	118.13	113.73
P1462_246_Zrn_A_1_MBD_5	1248.13	46.57	45.52	207Pb/235Uc	212	2.18	2.41858	0.15500	0.20215	0.00954	1248.13	46.57	45.52	1186.84	51.28	51.08	1355.49	116.12	111.85
P1462_246_Zrn_A_1_MBD_53	1253.88	41.23	41.10	206Pb/238U	267	2.34	2.48587	0.17336	0.21471	0.00776	1267.93	51.14	49.88	1253.88	41.23	41.10	1291.83	131.45	126.02
P1462_246_Zrn_A_1_MBD_12	1253.98	62.02	61.72	206Pb/238U	57	2.20	2.44090	0.26876	0.21473	0.01166	1254.74	80.90	77.80	1253.98	62.02	61.72	1256.05	217.77	203.29
P1462_246_Zrn_A_1_MBD_71	1255.62	51.70	51.49	206Pb/238U	179	2.17	2.51156	0.19459	0.21504	0.00972	1275.38	57.06	55.50	1255.62	51.70	51.49	1308.86	136.61	130.75
P1462_246_Zrn_A_1_MBD_58	1272.25	46.66	45.61	207Pb/235Uc	165	2.76	2.50073	0.15904	0.21503	0.00929	1272.25	46.66	45.61	1255.56	49.38	49.19	1300.56	112.86	108.83
P1462_246_Zrn_A_1_MBD_75	1300.49	65.08	64.75	206Pb/238U	234	2.20	2.91619	0.29265	0.22353	0.01232	1386.12	77.33	74.49	1300.49	65.08	64.75	1520.51	177.59	167.71
P1462_246_Zrn_A_1_MBD_61	1304.02	76.27	73.51	207Pb/235Uc	41	1.14	2.61200	0.26628	0.22399	0.01485	1304.02	76.27	73.51	1302.94	78.46	77.99	1305.80	192.84	181.37
P1462_246_Zrn_A_1_MBD_23	1304.91	39.18	39.06	206Pb/238U	237	1.75	2.68890	0.23845	0.22437	0.00743	1325.41	66.72	64.60	1304.91	39.18	39.06	1358.70	171.46	162.31
P1462_246_Zrn_A_1_MBD_89	1305.35	38.46	37.74	207Pb/235Uc	411	2.17	2.61675	0.13569	0.22337	0.00812	1305.35	38.46	37.74	1299.65	42.85	42.70	1314.74	90.58	87.97
P1462_246_Zrn_A_1_MBD_80	1342.04	62.89	62.58	206Pb/238U	80	2.18	2.88165	0.25441	0.23144	0.01198	1377.12	67.66	65.48	1342.04	62.89	62.58	1431.95	160.85	152.74
P1462_246_Zrn_A_1_MBD_1	1343.63	90.21	89.58	206Pb/238U	132	1.93	3.54512	1.92153	0.23174	0.01718	1537.35	482.26	389.43	1343.63	90.21	89.58	1815.01	1194.17	850.06
P1462_246_Zrn_A_1_MBD_82	1344.16	60.23	59.96	206Pb/238U	96	0.93	2.81462	0.26670	0.23184	0.01148	1359.44	72.26	69.78	1344.16	60.23	59.96	1383.54	178.66	168.73
P1462_246_Zrn_A_1_MBD_97	1347.89	55.18	54.94	206Pb/238U	218	2.72	2.69798	0.19884	0.23256	0.01053	1327.90	55.35	53.88	1347.89	55.18	54.94	1295.81	138.79	132.75
P1462_246_Zrn_A_1_MBD_63	1354.59	64.10	63.79	206Pb/238U	93	1.05	2.90323	0.25911	0.23384	0.01224	1382.75	68.55	66.31	1354.59	64.10	63.79	1426.50	160.34	152.28
P1462_246_Zrn_A_1_MBD_60	1354.84	50.58	49.35	207Pb/235Uc	336	2.02	2.79738	0.18682	0.23012	0.01259	1354.84	50.58	49.35	1335.15	66.17	65.83	1386.05	102.69	99.33
P1462_246_Zrn_A_1_MBD_91	1357.84	83.68	80.37	207Pb/235Uc	68	1.74	2.80864	0.30749	0.22617	0.01769	1357.84	83.68	80.37	1314.39	93.33	92.66	1426.94	185.62	174.90
P1462_246_Zrn_A_1_MBD_54	1370.15	69.20	66.92	207Pb/235Uc	612	1.18	2.85508	0.25830	0.21402	0.01519	1370.15	69.20	66.92	1250.22	80.91	80.41	1562.39	132.32	126.75
P1462_246_Zrn_A_1_MBD_14	1384.79	76.82	74.02	207Pb/235Uc	216	1.52	2.91108	0.29036	0.21843	0.01402	1384.79	76.82	74.02	1273.60	74.40	73.97	1560.57	168.06	159.17
P1462_246_Zrn_A_1_MBD_50	1387.89	41.46	41.32	206Pb/238U	239	2.04	2.99964	0.17950	0.24023	0.00796	1407.53	46.09	45.07	1387.89	41.46	41.32	1437.40	111.51	107.55
P1462_246_Zrn_A_1_MBD_26	1388.59	46.69	46.52	206Pb/238U	184	2.74	3.02541	0.21757	0.24036	0.00897	1414.05	55.64	54.15	1388.59	46.69	46.52	1452.62	133.40	127.76
P1462_246_Zrn_A_1_MBD_11	1389.92	81.87	78.69	207Pb/235Uc	19	0.66	2.93088	0.31063	0.23660	0.01729	1389.92	81.87	78.69	1369.00	90.44	89.81	1422.18	185.00	174.35
P1462_246_Zrn_A_1_MBD_87	1392.82	40.68	39.88	207Pb/235Uc	128	1.37	2.94211	0.15638	0.23939	0.00820	1392.82	40.68	39.88	1383.55	42.71	42.57	1407.04	96.60	93.62
P1462_246_Zrn_A_1_MBD_55	1402.20	56.45	54.92	207Pb/235Uc	46	2.03	2.97871	0.21814	0.22839	0.01304	1402.20	56.45	54.92	1326.06	68.59	68.23	1519.94	128.89	123.60
P1462_246_Zrn_A_1_MBD_18	1409.19	42.44	42.30	206Pb/238U	231	2.37	3.10752	0.19462	0.24433	0.00818	1434.55	48.69	47.55	1409.19	42.44	42.30	1472.37	113.76	109.64
P1462_246_Zrn_A_1_MBD_19	1414.80	52.54	51.21	207Pb/235Uc	167	1.14	3.02837	0.20576	0.23985	0.00978	1414.80	52.54	51.21	1385.93	50.93	50.73	1458.53	120.74	116.11
P1462_246_Zrn_A_1_MBD_59	1418.48	51.20	49.94	207Pb/235Uc	133	1.33	3.04303	0.20131	0.23823	0.01035	1418.48	51.20	49.94	1377.47	54.02	53.80	1480.62	119.01	114.50

**Table 2.** U–Pb age data from the Cretaceous Colombian back–arc basin (*continued*).

Sample GPS–1238																			
Analysis name	Preferred age (Ma)	2 –sigma	2 +sigma	Age type	[U] (ppm)	U/Th	207Pb/235U Ratio	2 sigma	206Pb/238U Ratio	2 sigma	207Pb/235Uc age (Ma)	2 –sigma	2 +sigma	206Pb/238U age (Ma)	2 –sigma	2 +sigma	207Pb/206Pb age (Ma)	2 –sigma	2 +sigma
P1462_246_Zrn_A_1_MBD_99	1420.08	55.66	55.42	206Pb/238U	111	1.99	3.23357	0.28116	0.24644	0.01074	1465.24	68.58	66.34	1420.08	55.66	55.42	1531.32	162.02	153.75
P1462_246_Zrn_A_1_MBD_10	1427.10	53.82	53.60	206Pb/238U	89	2.34	3.27497	0.29516	0.24780	0.01040	1475.13	71.34	68.92	1427.10	53.82	53.60	1544.92	164.49	155.97
P1462_246_Zrn_A_1_MBD_29	1431.97	68.77	68.41	206Pb/238U	75	2.18	2.93331	0.27005	0.24874	0.01329	1390.55	70.94	68.54	1431.97	68.77	68.41	1327.55	161.86	153.69
P1462_246_Zrn_A_1_MBD_8	1434.08	59.02	57.35	207Pb/235Uc	69	1.48	3.10562	0.23519	0.23776	0.01073	1434.08	59.02	57.35	1375.04	56.02	55.78	1522.80	134.73	128.96
P1462_246_Zrn_A_1_MBD_70	1436.58	51.17	49.92	207Pb/235Uc	159	2.29	3.11571	0.20484	0.24478	0.01106	1436.58	51.17	49.92	1411.51	57.38	57.13	1473.89	112.76	108.70
P1462_246_Zrn_A_1_MBD_98	1454.18	77.11	74.29	207Pb/235Uc	80	1.09	3.18771	0.31204	0.25653	0.01815	1454.18	77.11	74.29	1472.07	93.47	92.80	1428.14	148.12	141.22
P1462_246_Zrn_A_1_MBD_77	1454.83	50.41	49.19	207Pb/235Uc	276	2.69	3.19036	0.20548	0.25344	0.01189	1454.83	50.41	49.19	1456.17	61.29	60.99	1452.86	103.43	100.01
P1462_246_Zrn_A_1_MBD_107	1460.59	61.00	59.22	207Pb/235Uc	241	1.84	3.21421	0.24940	0.24694	0.01537	1460.59	61.00	59.22	1422.68	79.73	79.23	1516.17	109.47	105.64
P1462_246_Zrn_A_1_MBD_7	1461.97	61.17	59.39	207Pb/235Uc	258	2.53	3.21994	0.25045	0.24132	0.01171	1461.97	61.17	59.39	1393.54	60.97	60.68	1562.85	131.47	125.96
P1462_246_Zrn_A_1_MBD_35	1462.98	87.42	86.83	206Pb/238U	38	1.30	3.27364	0.45117	0.25476	0.01696	1474.81	110.13	104.46	1462.98	87.42	86.83	1491.88	249.38	230.35
P1462_246_Zrn_A_1_MBD_28	1477.30	64.96	62.95	207Pb/235Uc	42	1.20	3.28416	0.26975	0.25327	0.01334	1477.30	64.96	62.95	1455.32	68.80	68.43	1509.03	158.54	150.63
P1462_246_Zrn_A_1_MBD_30	1480.73	54.16	52.75	207Pb/235Uc	193	3.03	3.29862	0.22624	0.25587	0.01039	1480.73	54.16	52.75	1468.69	53.45	53.23	1498.02	119.68	115.12
P1462_246_Zrn_A_1_MBD_34	1481.12	43.27	42.37	207Pb/235Uc	326	2.08	3.30027	0.18132	0.25595	0.00918	1481.12	43.27	42.37	1469.10	47.22	47.05	1498.37	93.49	90.68
P1462_246_Zrn_A_1_MBD_4	1481.72	74.19	71.58	207Pb/235Uc	56	1.19	3.30282	0.30872	0.24247	0.01357	1481.72	74.19	71.58	1399.53	70.60	70.21	1601.45	174.20	164.65
P1462_246_Zrn_A_1_MBD_41	1482.47	50.69	49.46	207Pb/235Uc	260	1.35	3.30599	0.21232	0.25600	0.01009	1482.47	50.69	49.46	1469.33	51.88	51.67	1501.32	118.61	114.13
P1462_246_Zrn_A_1_MBD_36	1484.30	51.41	50.14	207Pb/235Uc	176	1.02	3.31377	0.21566	0.25181	0.01062	1484.30	51.41	50.14	1447.81	54.81	54.58	1536.84	108.94	105.14
P1462_246_Zrn_A_1_MBD_45	1486.97	47.96	46.86	207Pb/235Uc	287	0.92	3.32511	0.20191	0.25800	0.01073	1486.97	47.96	46.86	1479.59	55.12	54.89	1497.50	115.43	111.18
P1462_246_Zrn_A_1_MBD_109	1511.72	59.78	58.07	207Pb/235Uc	92	0.82	3.43186	0.25712	0.26120	0.01438	1511.72	59.78	58.07	1495.98	73.71	73.29	1533.85	117.46	113.06
P1462_246_Zrn_A_1_MBD_37	1517.99	61.86	60.03	207Pb/235Uc	83	2.00	3.45928	0.26756	0.27412	0.01416	1517.99	61.86	60.03	1561.70	71.84	71.44	1457.55	133.92	128.24
P1462_246_Zrn_A_1_MBD_85	1526.15	74.24	71.62	207Pb/235Uc	55	1.31	3.49528	0.32272	0.25788	0.01487	1526.15	74.24	71.62	1479.00	76.44	75.99	1592.15	162.43	154.10
P1462_246_Zrn_A_1_MBD_104	1531.71	70.24	67.89	207Pb/235Uc	55	1.16	3.51997	0.30731	0.27064	0.01482	1531.71	70.24	67.89	1544.07	75.41	74.97	1514.69	153.90	146.43
P1462_246_Zrn_A_1_MBD_69	1546.63	93.95	89.79	207Pb/235Uc	250	1.05	3.58686	0.41474	0.26533	0.02778	1546.63	93.95	89.79	1517.04	142.32	140.77	1587.29	105.33	101.76
P1462_246_Zrn_A_1_MBD_57	1552.09	52.80	51.46	207Pb/235Uc	187	1.79	3.61162	0.23670	0.26718	0.01161	1552.09	52.80	51.46	1526.47	59.20	58.93	1587.15	110.04	106.16
P1462_246_Zrn_A_1_MBD_68	1560.58	74.33	71.70	207Pb/235Uc	108	2.19	3.65031	0.33426	0.26610	0.01454	1560.58	74.33	71.70	1520.97	74.26	73.84	1614.59	155.67	147.99
P1462_246_Zrn_A_1_MBD_31	1560.94	76.39	73.62	207Pb/235Uc	281	1.19	3.65199	0.34347	0.26384	0.01698	1560.94	76.39	73.62	1509.47	86.88	86.30	1631.29	145.40	138.67
P1462_246_Zrn_A_1_MBD_96	1584.70	51.99	50.69	207Pb/235Uc	358	0.98	3.76212	0.24074	0.27315	0.01481	1584.70	51.99	50.69	1556.79	75.21	74.77	1622.05	104.93	101.38
P1462_246_Zrn_A_1_MBD_39	1586.73	60.22	58.49	207Pb/235Uc	136	0.92	3.77167	0.27885	0.28481	0.01568	1586.73	60.22	58.49	1615.56	78.92	78.44	1548.63	110.47	106.56
P1462_246_Zrn_A_1_MBD_94	1587.30	89.57	85.79	207Pb/235Uc	28	0.85	3.77433	0.41202	0.28793	0.01821	1587.30	89.57	85.79	1631.19	91.48	90.83	1529.48	197.51	185.36
P1462_246_Zrn_A_1_MBD_103	1587.50	50.14	48.93	207Pb/235Uc	117	1.35	3.77526	0.23292	0.27193	0.01365	1587.50	50.14	48.93	1550.58	69.35	68.98	1636.89	103.77	100.29
P1462_246_Zrn_A_1_MBD_21	1595.85	45.12	44.14	207Pb/235Uc	180	1.47	3.81468	0.21158	0.27899	0.00946	1595.85	45.12	44.14	1586.26	47.79	47.62	1608.54	97.04	94.00
P1462_246_Zrn_A_1_MBD_40	1601.96	46.79	45.74	207Pb/235Uc	339	7.04	3.84375	0.22067	0.28434	0.01166	1601.96	46.79	45.74	1613.17	58.68	58.41	1587.25	93.63	90.80
P1462_246_Zrn_A_1_MBD_16	1687.05	61.05	59.27	207Pb/235Uc	139	1.60	4.26716	0.31198	0.29239	0.01586	1687.05	61.05	59.27	1653.48	79.33	78.84	1729.04	124.30	119.33
P1462_246_Zrn_A_1_MBD_2	1689.98	50.63	49.40	207Pb/235Uc	164	1.60	4.28240	0.26015	0.28868	0.01053	1689.98	50.63	49.40	1634.92	52.77	52.56	1759.00	100.79	97.49
P1462_246_Zrn_A_1_MBD_6	1833.41	69.72	67.41	207Pb/235Uc	354	6.34	5.08385	0.41067	0.30506	0.02105	1833.41	69.72	67.41	1716.36	104.38	103.54	1969.05	104.98	101.38
P1462_246_Zrn_A_1_MBD_32	2355.89	47.98	46.87	207Pb/235Uc	161	2.37	9.17770	0.47530	0.42712	0.01462	2355.89	47.98	46.87	2292.73	66.21	65.87	2411.02	86.98	84.44

  

Sample OU																			
Analysis Name	Preferred Age (Ma)	2 –sigma	2 +sigma	Age Type	[U] (ppm)	U/Th	207Pb/235U Ratio	2 sigma	206Pb/238U Ratio	2 sigma	207Pb/235Uc Age (Ma)	2 –sigma	2 +sigma	206Pb/238U Age (Ma)	2 –sigma	2 +sigma	207Pb/206Pb Age (Ma)	2 –sigma	2 +sigma
P1462_177_Zrn_A_1_MBD_26	77.93	5.72	5.72	206Pb/238U	231	2.27	0.09534	0.02508	0.01216	0.00090	92.47	23.39	23.12	77.93	5.72	5.72	485.85	654.73	543.35
P1462_177_Zrn_A_1_MBD_36	83.58	6.34	6.33	206Pb/238U	364	2.66	0.09093	0.01530	0.01305	0.00100	88.37	14.29	14.19	83.58	6.34	6.33	219.84	439.69	394.79
P1462_177_Zrn_A_1_MBD_33	138.87	4.89	4.89	206Pb/238U	382	3.43	0.15082	0.02101	0.02178	0.00077	142.64	18.62	18.45	138.87	4.89	4.89	205.80	341.49	309.09

**Table 2.** U–Pb age data from the Cretaceous Colombian back–arc basin (*continued*).

Analysis Name	Preferred Age (Ma)	Sample OU																	
		2–sigma	2 +sigma	Age Type	[U] (ppm)	U/Th	207Pb/235U Ratio	2 sigma	206Pb/238U Ratio	2 sigma	207Pb/235Uc Age (Ma)	2–sigma	2 +sigma	206Pb/238U Age (Ma)	2–sigma	2 +sigma	207Pb/206Pb Age (Ma)	2–sigma	2 +sigma
P1462_177_Zrn_A_1_MBD_6	368.21	18.08	18.06	206Pb/238U	45	3.06	0.48203	0.05982	0.05878	0.00297	399.46	41.40	40.58	368.21	18.08	18.06	584.50	283.78	260.52
P1462_177_Zrn_A_1_MBD_27	848.55	48.86	48.68	206Pb/238U	568	15.76	1.48672	0.15483	0.14069	0.00863	924.98	64.23	62.26	848.55	48.86	48.68	1111.92	196.14	184.40
P1462_177_Zrn_A_1_MBD_21	1187.79	47.13	46.96	206Pb/238U	424	1.66	2.37465	0.17004	0.20232	0.00877	1235.00	51.82	50.53	1187.79	47.13	46.96	1318.36	121.04	116.41
P1462_177_Zrn_A_1_MBD_39	1204.97	36.24	36.14	206Pb/238U	846	2.55	2.46635	0.13378	0.20553	0.00677	1262.22	39.57	38.81	1204.97	36.24	36.14	1361.17	96.82	93.83
P1462_177_Zrn_A_1_MBD_45	1209.38	60.32	58.58	207Pb/235Uc	192	2.79	2.29056	0.19261	0.19623	0.01128	1209.38	60.32	58.58	1155.06	60.96	60.67	1307.70	137.32	131.40
P1462_177_Zrn_A_1_MBD_32	1237.25	37.62	37.51	206Pb/238U	190	3.10	2.60223	0.17630	0.21158	0.00706	1301.27	50.31	49.10	1237.25	37.62	37.51	1408.46	131.08	125.65
P1462_177_Zrn_A_1_MBD_19	1245.42	67.23	65.08	207Pb/235Uc	70	3.33	2.40945	0.22205	0.21483	0.01516	1245.42	67.23	65.08	1254.52	80.68	80.18	1229.72	178.59	168.75
P1462_177_Zrn_A_1_MBD_40	1270.15	48.36	48.18	206Pb/238U	180	2.03	2.56030	0.20924	0.21778	0.00912	1289.38	60.57	58.81	1270.15	48.36	48.18	1321.56	148.53	141.63
P1462_177_Zrn_A_1_MBD_20	1299.51	53.14	52.92	206Pb/238U	70	2.78	2.60617	0.27165	0.22334	0.01006	1302.38	77.97	75.08	1299.51	53.14	52.92	1307.10	198.07	185.99
P1462_177_Zrn_A_1_MBD_15	1396.21	69.97	67.64	207Pb/235Uc	92	0.93	2.95530	0.26793	0.23824	0.01499	1396.21	69.97	67.64	1377.55	78.26	77.79	1424.82	147.19	140.37
P1462_177_Zrn_A_1_MBD_38	1405.96	43.30	43.15	206Pb/238U	207	1.42	3.10719	0.19340	0.24371	0.00834	1434.47	48.38	47.26	1405.96	43.30	43.15	1477.02	115.44	111.19
P1462_177_Zrn_A_1_MBD_28	1496.85	82.81	79.56	207Pb/235Uc	115	0.85	3.36743	0.34901	0.24342	0.01813	1496.85	82.81	79.56	1404.47	94.34	93.66	1630.23	147.39	140.48
P1462_177_Zrn_A_1_MBD_25	1503.91	69.73	67.41	207Pb/235Uc	321	1.25	3.39791	0.29689	0.23632	0.01512	1503.91	69.73	67.41	1367.54	79.07	78.59	1701.69	141.06	134.70
P1462_177_Zrn_A_1_MBD_23	1542.47	80.63	80.13	206Pb/238U	67	1.47	3.44699	0.38563	0.27033	0.01584	1515.18	90.02	86.20	1542.47	80.63	80.13	1477.25	193.38	181.75
P1462_177_Zrn_A_1_MBD_34	1576.82	53.07	51.72	207Pb/235Uc	359	2.24	3.72531	0.24377	0.26872	0.01035	1576.82	53.07	51.72	1534.32	52.68	52.47	1634.17	114.61	110.39
P1462_177_Zrn_A_1_MBD_30	1597.49	97.15	96.42	206Pb/238U	19	1.08	3.50314	0.48266	0.28122	0.01924	1527.92	111.86	106.02	1597.49	97.15	96.42	1432.88	262.84	241.84
P1462_177_Zrn_A_1_MBD_14	1619.19	61.56	61.27	206Pb/238U	169	1.43	4.25491	0.35679	0.28554	0.01225	1684.69	70.14	67.80	1619.19	61.56	61.27	1767.22	142.61	136.09
P1462_177_Zrn_A_1_MBD_37	1668.35	63.32	61.41	207Pb/235Uc	193	1.63	4.17106	0.31750	0.27442	0.01569	1668.35	63.32	61.41	1563.20	79.59	79.10	1803.33	118.41	113.88
P1462_177_Zrn_A_1_MBD_22	1717.96	109.51	103.91	207Pb/235Uc	135	2.28	4.42996	0.57014	0.28525	0.03249	1717.96	109.51	103.91	1617.75	163.98	161.92	1842.36	138.43	132.26
P1462_177_Zrn_A_1_MBD_0	1726.55	77.40	74.56	207Pb/235Uc	195	0.81	4.47610	0.40958	0.30049	0.01645	1726.55	77.40	74.56	1693.74	81.78	81.26	1766.55	146.49	139.62
P1462_177_Zrn_A_1_MBD_24	1787.63	76.00	73.26	207Pb/235Uc	116	0.94	4.81560	0.42727	0.30563	0.01786	1787.63	76.00	73.26	1719.17	88.49	87.89	1868.48	143.62	136.98
P1462_177_Zrn_A_1_MBD_17	1853.65	92.21	88.21	207Pb/235Uc	63	2.23	5.20629	0.55103	0.32902	0.02669	1853.65	92.21	88.21	1833.64	130.11	128.81	1876.16	143.79	137.13
P1462_177_Zrn_A_1_MBD_35	1862.06	52.20	50.89	207Pb/235Uc	124	0.86	5.25794	0.31763	0.32115	0.01267	1862.06	52.20	50.89	1795.36	61.98	61.68	1937.37	104.79	101.20
P1462_177_Zrn_A_1_MBD_29	2051.92	78.04	75.16	207Pb/235Uc	39	2.70	6.54464	0.56889	0.37378	0.01969	2051.92	78.04	75.16	2047.15	92.73	92.07	2056.73	146.02	139.11
P1462_177_Zrn_A_1_MBD_41	2103.88	66.85	64.72	207Pb/235Uc	161	2.52	6.94076	0.51432	0.36750	0.01744	2103.88	66.85	64.72	2017.61	82.49	81.96	2189.35	115.73	111.32

  

Analysis name	Preferred age (Ma)	Sample QAD–15																	
		2–sigma	2 +sigma	Age type	[U] (ppm)	U/Th	207Pb/235U Ratio	2 sigma	206Pb/238U Ratio	2 sigma	207Pb/235Uc age (Ma)	2–sigma	2 +sigma	206Pb/238U age (Ma)	2–sigma	2 +sigma	207Pb/206Pb age (Ma)	2–sigma	2 +sigma
P1462_097_Zrn_A_1_POS_68	75.25	6.27	6.27	206Pb/238U	173	2.27	0.08642	0.02995	0.01174	0.00098	84.16	28.19	27.80	75.25	6.27	6.27	345.02	690.05	708.58
P1462_097_Zrn_A_1_POS_49	76.56	6.66	6.66	206Pb/238U	290	2.65	0.07888	0.01454	0.01195	0.00105	77.09	13.73	13.64	76.56	6.66	6.66	93.55	187.11	437.81
P1462_097_Zrn_A_1_POS_63	76.73	3.22	3.22	206Pb/238U	96	2.88	0.09321	0.02476	0.01197	0.00051	90.49	23.13	22.87	76.73	3.22	3.22	470.28	651.41	541.15
P1462_097_Zrn_A_1_POS_37	79.76	2.78	2.78	206Pb/238U	776	1.40	0.08577	0.00691	0.01245	0.00044	83.55	6.48	6.46	79.76	2.78	2.78	193.50	193.68	182.82
P1462_097_Zrn_A_1_POS_3	80.74	7.05	7.04	206Pb/238U	177	2.20	0.08918	0.02797	0.01260	0.00111	86.74	26.24	25.91	80.74	7.05	7.04	255.19	510.38	666.00
P1462_097_Zrn_A_1_POS_34	81.03	8.05	8.05	206Pb/238U	104	2.41	0.08497	0.02753	0.01265	0.00126	82.81	25.93	25.60	81.03	8.05	8.05	134.44	268.87	687.04
P1462_097_Zrn_A_1_POS_31	81.05	4.65	4.64	206Pb/238U	191	2.64	0.08843	0.01059	0.01265	0.00073	86.04	9.91	9.86	81.05	4.65	4.64	226.76	311.28	284.10
P1462_097_Zrn_A_1_POS_98	81.36	4.83	4.83	206Pb/238U	310	2.36	0.08786	0.01365	0.01270	0.00076	85.50	12.78	12.70	81.36	4.83	4.83	202.81	395.34	352.56
P1462_097_Zrn_A_1_POS_82	81.49	7.05	7.04	206Pb/238U	319	2.66	0.09557	0.03008	0.01272	0.00111	92.68	28.07	27.69	81.49	7.05	7.04	391.22	782.45	650.13
P1462_097_Zrn_A_1_POS_12	81.61	5.60	5.60	206Pb/238U	181	2.08	0.09635	0.04039	0.01274	0.00088	93.40	37.76	37.07	81.61	5.60	5.60	405.99	811.99	828.26
P1462_097_Zrn_A_1_POS_108	82.01	3.79	3.79	206Pb/238U	265	2.78	0.08919	0.01244	0.01280	0.00060	86.74	11.63	11.56	82.01	3.79	3.79	219.01	338.89	306.94
P1462_097_Zrn_A_1_POS_7	82.54	2.97	2.97	206Pb/238U	707	1.73	0.08709	0.00736	0.01289	0.00047	84.79	6.88	6.86	82.54	2.97	2.97	148.61	208.45	195.97
P1462_097_Zrn_A_1_POS_28	82.88	9.14	9.13	206Pb/238U	146	2.82	0.08491	0.01908	0.01294	0.00144	82.75	17.94	17.78	82.88	9.14	9.13	79.05	158.09	530.44



**Table 2.** U–Pb age data from the Cretaceous Colombian back–arc basin (*continued*).

Analysis name	Preferred age (Ma)	2 –sigma	2 +sigma	Age type	[U] (ppm)	U/Th	Sample QAD–15												
							207Pb/235U Ratio	2 sigma	206Pb/238U Ratio	2 sigma	207Pb/235Uc age (Ma)	2 –sigma	2 +sigma	206Pb/238U age (Ma)	2 –sigma	2 +sigma	207Pb/206Pb age (Ma)	2 –sigma	2 +sigma
<b>P1462_097_Zrn_A_1_POS_41</b>	<b>83.17</b>	<b>8.21</b>	<b>8.21</b>	<b>206Pb/238U</b>	<b>89</b>	<b>2.57</b>	<b>0.09109</b>	<b>0.02036</b>	<b>0.01299</b>	<b>0.00129</b>	<b>88.52</b>	<b>19.04</b>	<b>18.86</b>	<b>83.17</b>	<b>8.21</b>	<b>8.21</b>	<b>235.15</b>	<b>470.30</b>	<b>513.39</b>
P1462_097_Zrn_A_1_POS_43	83.18	3.35	3.35	206Pb/238U	352	1.32	0.08670	0.01310	0.01299	0.00053	84.42	12.28	12.21	83.18	3.35	3.35	119.81	239.63	342.21
P1462_097_Zrn_A_1_POS_76	83.23	4.74	4.74	206Pb/238U	586	1.70	0.08785	0.01081	0.01300	0.00075	85.50	10.12	10.07	83.23	4.74	4.74	149.33	298.66	292.03
P1462_097_Zrn_A_1_POS_61	83.27	6.23	6.22	206Pb/238U	162	1.87	0.09250	0.01646	0.01300	0.00098	89.83	15.36	15.24	83.27	6.23	6.22	267.80	466.77	408.04
P1462_097_Zrn_A_1_POS_96	83.64	3.90	3.90	206Pb/238U	322	1.88	0.09309	0.01336	0.01306	0.00061	90.38	12.45	12.37	83.64	3.90	3.90	272.18	356.52	321.21
P1462_097_Zrn_A_1_POS_107	83.69	3.02	3.01	206Pb/238U	302	2.12	0.08679	0.01179	0.01307	0.00047	84.51	11.05	10.99	83.69	3.02	3.01	107.76	215.52	308.98
P1462_097_Zrn_A_1_POS_65	83.70	4.07	4.07	206Pb/238U	239	1.49	0.09068	0.01098	0.01307	0.00064	88.13	10.25	10.20	83.70	4.07	4.07	209.89	303.43	277.57
P1462_097_Zrn_A_1_POS_67	83.75	9.02	9.01	206Pb/238U	1148	0.93	0.08606	0.01237	0.01308	0.00142	83.82	11.60	11.53	83.75	9.02	9.01	86.02	172.05	321.19
P1462_097_Zrn_A_1_POS_25	83.76	6.60	6.60	206Pb/238U	85	3.68	0.10064	0.03994	0.01308	0.00104	97.36	37.18	36.51	83.76	6.60	6.60	444.89	889.78	789.37
P1462_097_Zrn_A_1_POS_8	84.02	3.33	3.33	206Pb/238U	917	1.74	0.08702	0.00635	0.01312	0.00052	84.72	5.94	5.92	84.02	3.33	3.33	104.51	186.51	176.48
P1462_097_Zrn_A_1_POS_77	84.04	4.08	4.08	206Pb/238U	277	2.06	0.08973	0.01817	0.01312	0.00064	87.26	17.00	16.86	84.04	4.08	4.08	176.20	352.41	449.11
P1462_097_Zrn_A_1_POS_103	84.17	4.12	4.12	206Pb/238U	467	1.33	0.09134	0.00843	0.01314	0.00065	88.75	7.86	7.83	84.17	4.12	4.12	213.88	240.60	224.05
P1462_097_Zrn_A_1_POS_16	84.24	3.01	3.01	206Pb/238U	260	2.35	0.08666	0.00997	0.01315	0.00047	84.39	9.34	9.30	84.24	3.01	3.01	88.66	177.32	264.62
P1462_097_Zrn_A_1_POS_101	84.25	4.01	4.01	206Pb/238U	224	1.67	0.08543	0.02499	0.01316	0.00063	83.23	23.52	23.25	84.25	4.01	4.01	54.13	108.26	635.26
P1462_097_Zrn_A_1_POS_17	84.34	2.99	2.99	206Pb/238U	262	1.38	0.09025	0.01222	0.01317	0.00047	87.74	11.41	11.35	84.34	2.99	2.99	181.29	336.53	305.07
P1462_097_Zrn_A_1_POS_97	84.43	3.34	3.34	206Pb/238U	539	1.46	0.09052	0.00829	0.01318	0.00053	87.99	7.73	7.70	84.43	3.34	3.34	185.59	227.73	212.88
P1462_097_Zrn_A_1_POS_1	84.46	4.11	4.11	206Pb/238U	290	2.20	0.09971	0.01718	0.01319	0.00065	96.51	15.93	15.80	84.46	4.11	4.11	405.56	418.45	370.25
P1462_097_Zrn_A_1_POS_71	84.80	4.84	4.83	206Pb/238U	265	2.21	0.09097	0.01615	0.01324	0.00076	88.41	15.09	14.98	84.80	4.84	4.83	187.02	374.04	402.16
P1462_097_Zrn_A_1_POS_100	84.83	5.97	5.97	206Pb/238U	119	2.22	0.09478	0.01761	0.01325	0.00094	91.95	16.40	16.27	84.83	5.97	5.97	280.91	471.34	411.48
P1462_097_Zrn_A_1_POS_85	84.89	2.68	2.68	206Pb/238U	338	1.29	0.08755	0.01281	0.01326	0.00042	85.22	11.99	11.92	84.89	2.68	2.68	94.46	188.93	332.20
P1462_097_Zrn_A_1_POS_23	85.00	2.43	2.43	206Pb/238U	1065	1.50	0.09126	0.00694	0.01327	0.00038	88.68	6.47	6.45	85.00	2.43	2.43	188.94	183.12	173.39
P1462_097_Zrn_A_1_POS_2	85.20	3.16	3.15	206Pb/238U	348	1.97	0.09192	0.01514	0.01330	0.00050	89.29	14.13	14.03	85.20	3.16	3.15	200.11	400.21	362.03
P1462_097_Zrn_A_1_POS_93	85.28	3.50	3.50	206Pb/238U	129	2.58	0.08988	0.01555	0.01332	0.00055	87.39	14.54	14.44	85.28	3.50	3.50	145.44	290.88	384.72
P1462_097_Zrn_A_1_POS_40	85.32	5.30	5.30	206Pb/238U	86	2.36	0.09585	0.03405	0.01332	0.00083	92.94	31.80	31.31	85.32	5.30	5.30	293.12	586.24	723.71
P1462_097_Zrn_A_1_POS_39	85.52	5.44	5.43	206Pb/238U	167	2.05	0.09640	0.01790	0.01335	0.00085	93.45	16.65	16.51	85.52	5.44	5.43	300.91	470.41	410.70
P1462_097_Zrn_A_1_POS_92	85.71	3.55	3.55	206Pb/238U	230	2.63	0.09426	0.01520	0.01339	0.00056	91.47	14.16	14.06	85.71	3.55	3.55	244.23	400.20	356.31
P1462_097_Zrn_A_1_POS_90	85.85	3.34	3.34	206Pb/238U	402	1.26	0.09427	0.01345	0.01341	0.00053	91.47	12.52	12.44	85.85	3.34	3.34	240.64	351.88	317.51
P1462_097_Zrn_A_1_POS_18	85.91	2.94	2.94	206Pb/238U	435	2.02	0.09127	0.00730	0.01342	0.00046	88.68	6.80	6.78	85.91	2.94	2.94	163.81	201.19	189.53
P1462_097_Zrn_A_1_POS_30	86.39	6.80	6.80	206Pb/238U	106	2.24	0.08652	0.02247	0.01349	0.00107	84.25	21.11	20.89	86.39	6.80	6.80	23.94	47.87	586.13
P1462_097_Zrn_A_1_POS_24	86.49	3.25	3.25	206Pb/238U	600	1.32	0.08907	0.00945	0.01351	0.00051	86.64	8.83	8.79	86.49	3.25	3.25	90.79	181.57	249.75
P1462_097_Zrn_A_1_POS_42	86.50	5.78	5.78	206Pb/238U	140	1.39	0.09090	0.02219	0.01351	0.00091	88.34	20.76	20.55	86.50	5.78	5.78	138.53	277.06	540.36
P1462_097_Zrn_A_1_POS_109	86.81	6.20	6.19	206Pb/238U	160	2.81	0.09149	0.01921	0.01356	0.00097	88.89	17.95	17.80	86.81	6.20	6.19	145.11	290.22	476.08
P1462_097_Zrn_A_1_POS_66	86.85	8.10	8.10	206Pb/238U	87	2.72	0.09927	0.02041	0.01356	0.00127	96.10	18.94	18.77	86.85	8.10	8.10	332.13	542.71	464.60
P1462_097_Zrn_A_1_POS_89	86.94	2.83	2.83	206Pb/238U	1815	1.22	0.09473	0.00789	0.01358	0.00044	91.90	7.33	7.30	86.94	2.83	2.83	222.59	195.28	184.23
P1462_097_Zrn_A_1_POS_46	87.30	8.39	8.39	206Pb/238U	367	2.24	0.15159	0.07810	0.01363	0.00132	143.31	70.06	67.72	87.30	8.39	8.39	1212.66	1250.87	886.49
P1462_097_Zrn_A_1_POS_10	87.36	4.54	4.54	206Pb/238U	368	2.34	0.09407	0.01500	0.01364	0.00071	91.29	13.97	13.87	87.36	4.54	4.54	195.25	390.49	355.69
P1462_097_Zrn_A_1_POS_5	87.43	3.06	3.06	206Pb/238U	608	2.18	0.09451	0.00751	0.01366	0.00048	91.70	6.98	6.95	87.43	3.06	3.06	204.07	199.37	187.87
P1462_097_Zrn_A_1_POS_86	87.43	4.60	4.60	206Pb/238U	110	2.94	0.09296	0.02094	0.01366	0.00072	90.26	19.54	19.36	87.43	4.60	4.60	165.50	331.00	492.54
P1462_097_Zrn_A_1_POS_33	87.66	5.38	5.38	206Pb/238U	470	1.51	0.08756	0.01181	0.01369	0.00085	85.23	11.05	10.99	87.66	5.38	5.38	17.58	35.15	315.58
P1462_097_Zrn_A_1_POS_48	88.02	4.49	4.49	206Pb/238U	248	1.93	0.08812	0.01780	0.01375	0.00071	85.75	16.68	16.54	88.02	4.49	4.49	23.19	46.38	449.50
P1462_097_Zrn_A_1_POS_91	88.24	3.24	3.23	206Pb/238U	233	1.69	0.09667	0.01408	0.01378	0.00051	93.69	13.08	13.00	88.24	3.24	3.23	234.97	358.08	322.55
P1462_097_Zrn_A_1_POS_38	88.25	4.04	4.04	206Pb/238U	277	2.50	0.09748	0.01223	0.01378	0.00064	94.45	11.35	11.28	88.25	4.04	4.04	253.83	312.06	284.71

**Table 2.** U–Pb age data from the Cretaceous Colombian back–arc basin (*continued*).

Sample QAD–15																			
Analysis name	Preferred age (Ma)	2–sigma	2 +sigma	Age type	[U] (ppm)	U/Th	207Pb/235U Ratio	2 sigma	206Pb/238U Ratio	2 sigma	207Pb/235Uc age (Ma)	2–sigma	2 +sigma	206Pb/238U age (Ma)	2–sigma	2 +sigma	207Pb/206Pb age (Ma)	2–sigma	2 +sigma
P1462_097_Zrn_A_1_POS_78	88.51	3.64	3.64	206Pb/238U	324	1.44	0.09085	0.01089	0.01382	0.00057	88.29	10.17	10.11	88.51	3.64	3.64	82.41	164.83	278.74
P1462_097_Zrn_A_1_POS_58	88.66	4.76	4.76	206Pb/238U	212	2.03	0.09876	0.01645	0.01385	0.00075	95.63	15.26	15.15	88.66	4.76	4.76	273.16	415.20	368.06
P1462_097_Zrn_A_1_POS_62	89.41	5.60	5.59	206Pb/238U	113	1.84	0.10993	0.08598	0.01397	0.00088	105.90	80.22	77.17	89.41	5.60	5.59	495.00	990.01	1374.55
P1462_097_Zrn_A_1_POS_53	89.71	4.22	4.22	206Pb/238U	274	2.22	0.09160	0.01664	0.01401	0.00066	88.99	15.54	15.42	89.71	4.22	4.22	69.72	139.44	411.93
P1462_097_Zrn_A_1_POS_80	90.39	9.90	9.89	206Pb/238U	91	2.76	0.09273	0.02113	0.01412	0.00156	90.04	19.73	19.54	90.39	9.90	9.89	80.94	161.89	537.12
P1462_097_Zrn_A_1_POS_104	90.68	5.81	5.80	206Pb/238U	141	1.50	0.10195	0.02176	0.01417	0.00091	98.57	20.15	19.95	90.68	5.81	5.80	294.04	546.55	467.58
P1462_097_Zrn_A_1_POS_52	91.50	5.91	5.91	206Pb/238U	195	2.14	0.10647	0.02343	0.01429	0.00093	102.73	21.62	21.39	91.50	5.91	5.91	371.81	544.92	466.04
P1462_097_Zrn_A_1_POS_19	91.64	3.86	3.86	206Pb/238U	344	3.05	0.10288	0.01041	0.01432	0.00061	99.43	9.61	9.56	91.64	3.86	3.86	290.46	248.72	230.99
P1462_097_Zrn_A_1_POS_54	92.21	4.65	4.65	206Pb/238U	234	1.87	0.10203	0.01594	0.01441	0.00073	98.65	14.74	14.63	92.21	4.65	4.65	257.10	391.72	349.54
P1462_097_Zrn_A_1_POS_11	92.28	7.35	7.35	206Pb/238U	225	1.68	0.09763	0.03197	0.01442	0.00116	94.59	29.79	29.36	92.28	7.35	7.35	153.11	306.22	688.00
P1462_097_Zrn_A_1_POS_69	92.32	3.50	3.50	206Pb/238U	196	2.42	0.10250	0.02101	0.01442	0.00055	99.08	19.44	19.26	92.32	3.50	3.50	264.95	512.48	442.55
P1462_097_Zrn_A_1_POS_73	95.20	3.78	3.78	206Pb/238U	162	3.33	0.10372	0.01135	0.01488	0.00059	100.20	10.47	10.41	95.20	3.78	3.78	220.85	270.54	249.78
P1462_097_Zrn_A_1_POS_88	95.45	10.09	10.08	206Pb/238U	349	2.14	0.09691	0.02932	0.01492	0.00159	93.92	27.33	26.97	95.45	10.09	10.08	55.26	110.51	627.30
P1462_097_Zrn_A_1_POS_72	97.79	5.53	5.53	206Pb/238U	335	3.85	0.10275	0.03491	0.01529	0.00087	99.31	32.40	31.89	97.79	5.53	5.53	135.91	271.82	719.74
P1462_097_Zrn_A_1_POS_79	228.87	7.16	7.15	206Pb/238U	797	12.24	0.26258	0.01567	0.03614	0.00115	236.75	12.64	12.56	228.87	7.16	7.15	315.66	132.92	127.68
P1462_097_Zrn_A_1_POS_105	248.47	10.26	10.25	206Pb/238U	592	1.65	0.28852	0.02497	0.03930	0.00165	257.39	19.78	19.58	248.47	10.26	10.25	339.47	210.28	197.43
P1462_097_Zrn_A_1_POS_13	426.55	12.29	12.28	206Pb/238U	488	3.15	0.51337	0.02711	0.06841	0.00204	420.71	18.27	18.11	426.55	12.29	12.28	388.85	122.81	118.30
P1462_097_Zrn_A_1_POS_59	882.28	31.25	31.17	206Pb/238U	94	1.89	1.36846	0.08045	0.14667	0.00555	875.50	34.79	34.20	882.28	31.25	31.17	858.41	124.05	119.32
P1462_097_Zrn_A_1_POS_57	1038.46	33.88	33.79	206Pb/238U	71	1.92	1.73184	0.13210	0.17479	0.00617	1020.44	49.70	48.51	1038.46	33.88	33.79	981.97	158.35	150.66
P1462_097_Zrn_A_1_POS_99	1076.29	30.58	30.50	206Pb/238U	1210	2.70	1.92880	0.09252	0.18171	0.00560	1091.12	32.33	31.83	1076.29	30.58	30.50	1120.84	92.98	90.26
P1462_097_Zrn_A_1_POS_81	1086.19	29.31	29.24	206Pb/238U	829	5.21	2.01443	0.09091	0.18352	0.00537	1120.38	30.86	30.39	1086.19	29.31	29.24	1187.30	86.23	83.88
P1462_097_Zrn_A_1_POS_21	1186.55	44.17	43.23	207Pb/235Uc	73	2.28	2.21741	0.13844	0.20609	0.00841	1186.55	44.17	43.23	1207.95	45.05	44.89	1147.77	122.74	118.03
P1462_097_Zrn_A_1_POS_84	1237.43	31.86	31.37	207Pb/235Uc	367	15.55	2.38273	0.10531	0.20991	0.00599	1237.43	31.86	31.37	1228.33	31.94	31.86	1253.32	85.22	82.91
P1462_097_Zrn_A_1_POS_95	1459.95	40.19	40.07	206Pb/238U	98	2.85	3.22309	0.16747	0.25417	0.00781	1462.73	40.67	39.87	1459.95	40.19	40.07	1466.76	95.73	92.80
P1462_097_Zrn_A_1_POS_55	1481.14	40.87	40.74	206Pb/238U	120	1.58	3.29442	0.21638	0.25830	0.00796	1479.73	51.82	50.53	1481.14	40.87	40.74	1477.72	123.51	118.66
P1462_097_Zrn_A_1_POS_26	1693.88	54.70	53.26	207Pb/235Uc	50	0.87	4.30269	0.28184	0.29960	0.01145	1693.88	54.70	53.26	1689.31	56.92	56.67	1699.54	124.02	119.08
P1462_097_Zrn_A_1_POS_9	1715.31	32.96	32.43	207Pb/235Uc	312	1.21	4.41580	0.17437	0.30119	0.00866	1715.31	32.96	32.43	1697.20	42.98	42.83	1737.49	69.86	68.27
P1462_097_Zrn_A_1_POS_47	1918.52	47.53	46.45	207Pb/235Uc	85	3.95	5.61575	0.30610	0.34138	0.01672	1918.52	47.53	46.45	1893.29	80.63	80.13	1945.90	71.85	70.15
P1462_097_Zrn_A_1_POS_51	2057.73	38.76	38.03	207Pb/235Uc	80	1.92	6.58793	0.28688	0.37607	0.01288	2057.73	38.76	38.03	2057.89	60.47	60.19	2057.58	68.44	66.88

  

Sample QS–14.8																			
Analysis name	Preferred age (Ma)	2–sigma	2 +sigma	Age type	[U] (ppm)	U/Th	207Pb/235U Ratio	2 sigma	206Pb/238U Ratio	2 sigma	207Pb/235Uc age (Ma)	2–sigma	2 +sigma	206Pb/238U age (Ma)	2–sigma	2 +sigma	207Pb/206Pb age (Ma)	2–sigma	2 +sigma
P1462_058_Zrn_A_1_POS_2	535.93	29.73	29.66	206Pb/238U	250	1.18	0.74868	0.06190	0.08669	0.00501	567.46	36.27	35.63	535.93	29.73	29.66	695.90	193.59	182.41
P1462_058_Zrn_A_1_POS_64	956.40	21.98	21.94	206Pb/238U	133	2.97	1.57162	0.08481	0.15993	0.00395	959.07	33.77	33.21	956.40	21.98	21.94	965.17	107.03	103.47
P1462_058_Zrn_A_1_POS_80	1016.63	24.45	24.40	206Pb/238U	166	4.62	1.76159	0.07876	0.17082	0.00444	1031.43	29.17	28.75	1016.63	24.45	24.40	1062.95	92.24	89.57
P1462_058_Zrn_A_1_POS_44	1081.14	27.00	26.65	207Pb/235Uc	273	2.52	1.90014	0.07661	0.18058	0.00500	1081.14	27.00	26.65	1070.12	27.36	27.30	1103.41	67.66	66.21
P1462_058_Zrn_A_1_POS_79	1156.88	26.90	26.84	206Pb/238U	194	3.30	2.11568	0.09180	0.19657	0.00499	1153.93	30.14	29.70	1156.88	26.90	26.84	1148.39	82.03	79.90
P1462_058_Zrn_A_1_POS_0	1230.04	41.59	40.76	207Pb/235Uc	137	2.45	2.35820	0.13617	0.19841	0.01127	1230.04	41.59	40.76	1166.77	60.78	60.49	1342.72	122.48	117.74
P1462_058_Zrn_A_1_POS_98	1232.84	37.11	37.00	206Pb/238U	50	2.82	2.36124	0.13891	0.21076	0.00696	1230.96	42.40	41.54	1232.84	37.11	37.00	1227.66	106.43	102.85
P1462_058_Zrn_A_1_POS_104	1250.48	57.77	56.18	207Pb/235Uc	46	0.56	2.42647	0.19222	0.21372	0.01273	1250.48	57.77	56.18	1248.63	67.77	67.42	1253.65	123.45	118.66
P1462_058_Zrn_A_1_POS_65	1286.93	25.50	25.18	207Pb/235Uc	220	2.22	2.55172	0.08864	0.21730	0.00527	1286.93	25.50	25.18	1267.59	27.95	27.89	1319.35	62.33	61.09

**Table 2.** U–Pb age data from the Cretaceous Colombian back–arc basin (*continued*).

Analysis name	Preferred age (Ma)	Sample QS–14.8																	
		2 –sigma	2 +sigma	Age type	[U] (ppm)	U/Th	207Pb/235U Ratio	2 sigma	206Pb/238U Ratio	2 sigma	207Pb/235Uc age (Ma)	2 –sigma	2 +sigma	206Pb/238U age (Ma)	2 –sigma	2 +sigma	207Pb/206Pb age (Ma)	2 –sigma	2 +sigma
P1462_058_Zrn_A_1_POS_18	1311.30	20.68	20.48	207Pb/235Uc	318	2.09	2.63800	0.07373	0.22629	0.00465	1311.30	20.68	20.48	1315.00	24.45	24.40	1305.26	53.13	52.22
P1462_058_Zrn_A_1_POS_76	1334.51	33.40	33.31	206Pb/238U	72	3.84	2.57805	0.16172	0.23000	0.00636	1294.43	46.42	45.38	1334.51	33.40	33.31	1228.56	124.01	119.18
P1462_058_Zrn_A_1_POS_15	1334.84	34.13	33.56	207Pb/235Uc	327	3.13	2.72331	0.12409	0.22619	0.00726	1334.84	34.13	33.56	1314.48	38.24	38.13	1367.63	80.01	77.96
P1462_058_Zrn_A_1_POS_66	1336.77	40.02	39.25	207Pb/235Uc	212	3.76	2.73041	0.14560	0.22059	0.00742	1336.77	40.02	39.25	1284.98	39.26	39.14	1420.70	89.63	87.06
P1462_058_Zrn_A_1_POS_63	1345.52	31.32	31.25	206Pb/238U	164	2.90	2.87837	0.12703	0.23210	0.00598	1376.27	33.53	32.99	1345.52	31.32	31.25	1424.30	84.85	82.54
P1462_058_Zrn_A_1_POS_93	1367.77	31.05	30.58	207Pb/235Uc	189	1.89	2.84607	0.11672	0.23524	0.00604	1367.77	31.05	30.58	1361.89	31.58	31.51	1376.97	74.08	72.32
P1462_058_Zrn_A_1_POS_27	1378.99	27.92	27.54	207Pb/235Uc	263	2.53	2.88879	0.10621	0.23327	0.00733	1378.99	27.92	27.54	1351.59	38.38	38.27	1421.66	62.89	61.61
P1462_058_Zrn_A_1_POS_8	1379.01	25.44	25.12	207Pb/235Uc	146	2.09	2.88888	0.09682	0.23651	0.00566	1379.01	25.44	25.12	1368.55	29.55	29.48	1395.24	58.78	57.66
P1462_058_Zrn_A_1_POS_77	1384.49	28.94	28.88	206Pb/238U	190	2.03	2.85045	0.11245	0.23958	0.00556	1368.93	29.87	29.44	1384.49	28.94	28.88	1344.73	71.12	69.50
P1462_058_Zrn_A_1_POS_101	1403.33	25.28	24.96	207Pb/235Uc	186	2.33	2.98314	0.09854	0.24065	0.00539	1403.33	25.28	24.96	1390.05	28.02	27.96	1423.56	59.87	58.71
P1462_058_Zrn_A_1_POS_36	1424.78	64.40	62.42	207Pb/235Uc	49	1.41	3.06819	0.25397	0.24240	0.01348	1424.78	64.40	62.42	1399.17	70.11	69.73	1463.27	151.83	144.57
P1462_058_Zrn_A_1_POS_32	1448.21	25.69	25.36	207Pb/235Uc	267	2.06	3.16315	0.10465	0.24546	0.00524	1448.21	25.69	25.36	1415.02	27.14	27.08	1497.29	59.61	58.45
P1462_058_Zrn_A_1_POS_91	1454.67	33.12	32.59	207Pb/235Uc	161	1.20	3.18970	0.13556	0.25152	0.00666	1454.67	33.12	32.59	1446.31	34.35	34.26	1466.90	79.99	77.92
P1462_058_Zrn_A_1_POS_106	1461.52	36.40	36.29	206Pb/238U	61	1.67	3.34213	0.19971	0.25448	0.00707	1490.95	47.25	46.17	1461.52	36.40	36.29	1533.07	111.87	107.86
P1462_058_Zrn_A_1_POS_70	1473.10	30.19	29.74	207Pb/235Uc	99	1.10	3.26646	0.12589	0.25440	0.00786	1473.10	30.19	29.74	1461.14	40.45	40.32	1490.39	62.83	61.55
P1462_058_Zrn_A_1_POS_48	1491.67	27.85	27.47	207Pb/235Uc	174	0.89	3.34520	0.11835	0.26065	0.00674	1491.67	27.85	27.47	1493.18	34.49	34.40	1489.53	58.63	57.51
P1462_058_Zrn_A_1_POS_13	1506.51	42.33	42.19	206Pb/238U	50	1.35	3.43534	0.24108	0.26326	0.00828	1512.52	55.95	54.45	1506.51	42.33	42.19	1520.94	128.51	123.26
P1462_058_Zrn_A_1_POS_17	1510.59	25.72	25.39	207Pb/235Uc	175	2.42	3.42694	0.11141	0.26069	0.00683	1510.59	25.72	25.39	1493.38	34.99	34.90	1534.81	50.02	49.20
P1462_058_Zrn_A_1_POS_100	1684.94	79.17	78.69	206Pb/238U	84	1.51	4.78815	0.48799	0.29872	0.01590	1782.82	87.46	83.85	1684.94	79.17	78.69	1899.40	173.38	163.78
P1462_058_Zrn_A_1_POS_28	1703.19	29.75	29.32	207Pb/235Uc	349	2.08	4.35153	0.15565	0.30110	0.00666	1703.19	29.75	29.32	1696.75	33.06	32.97	1711.12	64.76	63.39
P1462_058_Zrn_A_1_POS_45	1710.57	34.77	34.19	207Pb/235Uc	228	1.86	4.39057	0.18304	0.30456	0.01112	1710.57	34.77	34.19	1713.89	55.07	54.83	1706.50	51.56	50.68
P1462_058_Zrn_A_1_POS_46	1733.47	27.59	27.22	207Pb/235Uc	188	2.47	4.51352	0.14880	0.30672	0.00672	1733.47	27.59	27.22	1724.54	33.18	33.09	1744.25	57.35	56.27
P1462_058_Zrn_A_1_POS_34	1737.46	44.25	43.31	207Pb/235Uc	53	1.15	4.53525	0.23861	0.30550	0.01101	1737.46	44.25	43.31	1718.50	54.47	54.24	1760.36	82.56	80.33
P1462_058_Zrn_A_1_POS_14	1746.36	37.88	37.18	207Pb/235Uc	101	2.36	4.58399	0.20637	0.30406	0.01148	1746.36	37.88	37.18	1711.42	56.87	56.62	1788.45	68.40	66.86
P1462_058_Zrn_A_1_POS_67	1758.05	34.51	33.93	207Pb/235Uc	98	2.29	4.64862	0.19034	0.31113	0.00862	1758.05	34.51	33.93	1746.28	42.44	42.30	1772.06	68.78	67.23
P1462_058_Zrn_A_1_POS_95	1759.11	27.99	27.61	207Pb/235Uc	225	1.29	4.65457	0.15481	0.31628	0.00698	1759.11	27.99	27.61	1771.53	34.23	34.14	1744.40	59.48	58.32
P1462_058_Zrn_A_1_POS_12	1761.31	28.19	27.80	207Pb/235Uc	272	1.38	4.66678	0.15624	0.31017	0.00841	1761.31	28.19	27.80	1741.55	41.45	41.32	1784.81	58.20	57.08
P1462_058_Zrn_A_1_POS_107	1762.60	30.12	29.68	207Pb/235Uc	168	1.53	4.67399	0.16706	0.31473	0.00834	1762.60	30.12	29.68	1763.93	40.96	40.83	1761.02	60.04	58.85
P1462_058_Zrn_A_1_POS_35	1762.70	29.21	28.80	207Pb/235Uc	117	0.94	4.67457	0.16210	0.31110	0.00688	1762.70	29.21	28.80	1746.11	33.89	33.80	1782.42	57.92	56.82
P1462_058_Zrn_A_1_POS_21	1763.52	28.36	27.97	207Pb/235Uc	167	2.07	4.67915	0.15750	0.31033	0.00728	1763.52	28.36	27.97	1742.31	35.85	35.75	1788.74	60.67	59.46
P1462_058_Zrn_A_1_POS_25	1764.36	33.39	32.85	207Pb/235Uc	186	1.65	4.68386	0.18540	0.32071	0.00781	1764.36	33.39	32.85	1793.22	38.18	38.07	1730.37	71.36	69.69
P1462_058_Zrn_A_1_POS_103	1764.70	35.90	35.27	207Pb/235Uc	138	1.85	4.68573	0.19924	0.30716	0.01166	1764.70	35.90	35.27	1726.74	57.63	57.38	1809.92	57.19	56.11
P1462_058_Zrn_A_1_POS_33	1769.39	32.15	31.64	207Pb/235Uc	268	2.24	4.71207	0.17941	0.31011	0.00937	1769.39	32.15	31.64	1741.27	46.17	46.01	1802.74	62.93	61.63
P1462_058_Zrn_A_1_POS_84	1771.77	32.83	32.31	207Pb/235Uc	203	2.42	4.72546	0.18365	0.31474	0.00887	1771.77	32.83	32.31	1763.97	43.59	43.44	1780.97	59.22	58.07
P1462_058_Zrn_A_1_POS_89	1775.88	35.70	35.08	207Pb/235Uc	116	1.29	4.74872	0.20034	0.31613	0.00852	1775.88	35.70	35.08	1770.82	41.78	41.65	1781.84	69.44	67.85
P1462_058_Zrn_A_1_POS_30	1776.08	34.49	33.91	207Pb/235Uc	189	1.26	4.74983	0.19365	0.31445	0.01161	1776.08	34.49	33.91	1762.56	57.09	56.84	1792.00	68.80	67.25
P1462_058_Zrn_A_1_POS_37	1776.28	32.40	31.89	207Pb/235Uc	104	7.75	4.75097	0.18205	0.31475	0.00860	1776.28	32.40	31.89	1764.06	42.24	42.10	1790.68	61.57	60.32
P1462_058_Zrn_A_1_POS_24	1783.04	42.31	41.45	207Pb/235Uc	139	1.89	4.78938	0.23875	0.31627	0.01309	1783.04	42.31	41.45	1771.49	64.28	63.96	1796.59	75.95	74.06
P1462_058_Zrn_A_1_POS_71	1784.31	46.72	45.67	207Pb/235Uc	52	1.06	4.79661	0.26368	0.32234	0.01076	1784.31	46.72	45.67	1801.13	52.58	52.37	1764.68	93.05	90.23
P1462_058_Zrn_A_1_POS_7	1785.49	38.38	37.67	207Pb/235Uc	207	2.07	4.80338	0.21731	0.32015	0.01001	1785.49	38.38	37.67	1790.48	48.98	48.79	1779.67	74.18	72.38
P1462_058_Zrn_A_1_POS_52	1787.14	32.89	32.36	207Pb/235Uc	156	2.70	4.81280	0.18674	0.31142	0.00921	1787.14	32.89	32.36	1747.71	45.34	45.18	1833.48	56.25	55.20
P1462_058_Zrn_A_1_POS_109	1788.80	33.68	33.13	207Pb/235Uc	137	1.52	4.82232	0.19155	0.32299	0.00917	1788.80	33.68	33.13	1804.34	44.76	44.61	1770.72	65.90	64.47

**Table 2.** U–Pb age data from the Cretaceous Colombian back–arc basin (*continued*).

Sample QS–14.8																			
Analysis name	Preferred age (Ma)	2–sigma	2 +sigma	Age type	[U] (ppm)	U/Th	207Pb/235U Ratio	2 sigma	206Pb/238U Ratio	2 sigma	207Pb/235Uc age (Ma)	2–sigma	2 +sigma	206Pb/238U age (Ma)	2–sigma	2 +sigma	207Pb/206Pb age (Ma)	2–sigma	2 +sigma
P1462_058_Zrn_A_1_POS_4	1792.94	64.86	63.48	207Pb/206Pb	222	2.26	4.56178	0.41710	0.30184	0.02685	1742.31	77.61	74.76	1700.44	133.65	132.28	1792.94	64.86	63.48
P1462_058_Zrn_A_1_POS_68	1805.18	28.50	28.10	207Pb/235Uc	213	1.93	4.91703	0.16490	0.31694	0.00755	1805.18	28.50	28.10	1774.75	37.03	36.92	1840.51	57.30	56.21
P1462_058_Zrn_A_1_POS_86	1815.10	38.78	38.06	207Pb/235Uc	50	1.07	4.97512	0.22606	0.32632	0.00945	1815.10	38.78	38.06	1820.54	46.00	45.84	1808.87	76.09	74.19
P1462_058_Zrn_A_1_POS_10	1818.50	47.03	45.97	207Pb/235Uc	67	1.25	4.99512	0.27450	0.32294	0.01279	1818.50	47.03	45.97	1804.05	62.49	62.18	1835.08	88.33	85.78
P1462_058_Zrn_A_1_POS_94	1819.18	35.15	34.55	207Pb/235Uc	107	1.39	4.99916	0.20589	0.32811	0.00943	1819.18	35.15	34.55	1829.23	45.83	45.67	1807.70	72.39	70.67
P1462_058_Zrn_A_1_POS_73	1820.43	36.60	35.96	207Pb/235Uc	75	1.38	5.00656	0.21460	0.32522	0.00882	1820.43	36.60	35.96	1815.20	42.95	42.81	1826.43	74.46	72.64
P1462_058_Zrn_A_1_POS_3	1823.08	42.89	42.00	207Pb/235Uc	201	1.47	5.02227	0.25169	0.32560	0.01105	1823.08	42.89	42.00	1817.00	53.86	53.64	1830.05	79.49	77.42
P1462_058_Zrn_A_1_POS_62	1835.27	40.80	40.00	207Pb/235Uc	75	0.95	5.09496	0.24246	0.31665	0.01420	1835.27	40.80	40.00	1773.33	69.73	69.36	1906.26	95.52	92.54
P1462_058_Zrn_A_1_POS_9	1837.86	29.27	28.85	207Pb/235Uc	182	1.74	5.11053	0.17487	0.33632	0.00920	1837.86	29.27	28.85	1868.95	44.48	44.32	1802.83	49.27	48.47
P1462_058_Zrn_A_1_POS_108	1853.92	33.13	32.60	207Pb/235Uc	211	1.74	5.20795	0.20094	0.33710	0.00884	1853.92	33.13	32.60	1872.69	42.67	42.53	1832.92	65.44	64.03
P1462_058_Zrn_A_1_POS_56	1877.07	43.21	42.31	207Pb/235Uc	147	1.63	5.35115	0.26741	0.33197	0.01057	1877.07	43.21	42.31	1847.92	51.28	51.07	1909.50	81.26	79.09
P1462_058_Zrn_A_1_POS_29	1899.47	37.56	37.45	206Pb/238U	120	1.22	5.58138	0.25834	0.34266	0.00781	1913.23	40.25	39.47	1899.47	37.56	37.45	1928.18	79.61	77.52
P1462_058_Zrn_A_1_POS_96	1914.22	29.87	29.43	207Pb/235Uc	226	1.82	5.58781	0.19236	0.34457	0.00904	1914.22	29.87	29.43	1908.62	43.43	43.29	1920.30	56.10	55.06
P1462_058_Zrn_A_1_POS_72	1915.53	32.26	31.76	207Pb/235Uc	217	1.41	5.59631	0.20795	0.34491	0.01055	1915.53	32.26	31.76	1910.27	50.68	50.48	1921.24	61.28	60.04
P1462_058_Zrn_A_1_POS_83	1918.59	32.24	31.73	207Pb/235Uc	190	1.46	5.61620	0.20840	0.34660	0.00969	1918.59	32.24	31.73	1918.33	46.49	46.32	1918.87	57.23	56.15
P1462_058_Zrn_A_1_POS_16	1919.55	32.78	32.26	207Pb/235Uc	135	1.32	5.62244	0.21207	0.34466	0.01002	1919.55	32.78	32.26	1909.06	48.13	47.95	1930.89	53.07	52.13
P1462_058_Zrn_A_1_POS_61	1924.30	33.76	33.21	207Pb/235Uc	275	3.13	5.65355	0.21940	0.34615	0.00878	1924.30	33.76	33.21	1916.19	42.09	41.95	1933.06	64.50	63.12
P1462_058_Zrn_A_1_POS_49	1924.41	41.02	40.20	207Pb/235Uc	174	1.62	5.65426	0.26610	0.33756	0.01500	1924.41	41.02	40.20	1874.91	72.48	72.08	1978.16	74.62	72.78
P1462_058_Zrn_A_1_POS_31	1925.39	34.17	33.60	207Pb/235Uc	105	1.23	5.66067	0.22225	0.34383	0.01042	1925.39	34.17	33.60	1905.06	50.11	49.91	1947.35	60.37	59.16
P1462_058_Zrn_A_1_POS_6	1928.81	42.57	41.69	207Pb/235Uc	78	1.83	5.68312	0.27724	0.35203	0.01216	1928.81	42.57	41.69	1944.31	58.13	57.87	1912.19	73.73	71.94
P1462_058_Zrn_A_1_POS_53	1941.91	32.46	31.95	207Pb/235Uc	129	1.92	5.76992	0.21467	0.35958	0.00921	1941.91	32.46	31.95	1980.19	43.74	43.59	1901.32	61.17	59.93
P1462_058_Zrn_A_1_POS_102	1944.56	29.72	29.29	207Pb/235Uc	220	1.39	5.78760	0.19723	0.34860	0.00902	1944.56	29.72	29.29	1927.89	43.17	43.03	1962.36	56.28	55.23
P1462_058_Zrn_A_1_POS_50	1951.56	36.04	35.41	207Pb/235Uc	119	1.61	5.83458	0.24044	0.34961	0.01094	1951.56	36.04	35.41	1932.75	52.38	52.16	1971.58	63.07	61.75
P1462_058_Zrn_A_1_POS_74	1955.32	32.56	32.05	207Pb/235Uc	120	1.70	5.85990	0.21824	0.35962	0.00979	1955.32	32.56	32.05	1980.39	46.48	46.32	1928.87	61.07	59.83
P1462_058_Zrn_A_1_POS_38	1959.94	34.66	34.08	207Pb/235Uc	156	2.11	5.89123	0.23323	0.35013	0.01183	1959.94	34.66	34.08	1935.22	56.60	56.36	1986.15	53.65	52.69
P1462_058_Zrn_A_1_POS_19	1966.64	29.27	28.85	207Pb/235Uc	133	1.09	5.93681	0.19852	0.36049	0.00968	1966.64	29.27	28.85	1984.50	45.96	45.80	1947.90	53.30	52.35
P1462_058_Zrn_A_1_POS_75	1970.30	32.44	31.93	207Pb/235Uc	79	1.56	5.96189	0.22066	0.36279	0.00964	1970.30	32.44	31.93	1995.40	45.67	45.51	1944.05	58.58	57.44
P1462_058_Zrn_A_1_POS_97	1972.37	32.72	32.21	207Pb/235Uc	171	1.82	5.97611	0.22303	0.35887	0.01013	1972.37	32.72	32.21	1976.80	48.15	47.97	1967.73	64.85	63.45
P1462_058_Zrn_A_1_POS_78	1990.04	42.90	42.01	207Pb/235Uc	114	0.90	6.09856	0.29674	0.36439	0.01556	1990.04	42.90	42.01	2002.96	73.74	73.32	1976.65	77.11	75.14
P1462_058_Zrn_A_1_POS_82	2016.45	33.12	32.59	207Pb/235Uc	102	1.40	6.28559	0.23574	0.36497	0.00951	2016.45	33.12	32.59	2005.67	45.01	44.85	2027.50	61.45	60.19
P1462_058_Zrn_A_1_POS_42	2292.14	80.13	77.98	207Pb/206Pb	68	0.98	8.40623	1.59487	0.41940	0.07803	2275.85	179.90	165.25	2257.76	359.36	349.62	2292.14	80.13	77.98
P1462_058_Zrn_A_1_POS_85	2322.05	36.60	35.95	207Pb/235Uc	87	1.56	8.84405	0.35168	0.43202	0.01307	2322.05	36.60	35.95	2314.82	58.96	58.69	2328.41	55.14	54.11
P1462_058_Zrn_A_1_POS_81	2663.15	34.57	34.00	207Pb/235Uc	105	1.73	12.77428	0.46505	0.50923	0.01484	2663.15	34.57	34.00	2653.33	63.55	63.24	2670.62	48.83	48.02

  

Sample QSA–92																			
Analysis name	Preferred age (Ma)	2–sigma	2 +sigma	Age type	[U] (ppm)	U/Th	207Pb/235U Ratio	2 sigma	206Pb/238U Ratio	2 sigma	207Pb/235Uc age (Ma)	2–sigma	2 +sigma	206Pb/238U age (Ma)	2–sigma	2 +sigma	207Pb/206Pb age (Ma)	2–sigma	2 +sigma
P1462_001_Zrn_A_1_POS_76	461.80	22.40	22.36	206Pb/238U	115	2.03	0.62375	0.08213	0.07427	0.00373	492.20	52.02	50.72	461.80	22.40	22.36	636.23	291.35	266.81
P1462_001_Zrn_A_1_POS_27	465.47	33.36	33.28	206Pb/238U	276	1.91	0.57344	0.05988	0.07488	0.00556	460.24	39.01	38.28	465.47	33.36	33.28	434.17	286.89	263.35
P1462_001_Zrn_A_1_POS_58	589.64	15.77	15.75	206Pb/238U	373	3.49	0.81555	0.04181	0.09578	0.00268	605.56	23.52	23.25	589.64	15.77	15.75	665.59	112.10	108.27
P1462_001_Zrn_A_1_POS_56	611.17	13.60	13.58	206Pb/238U	204	1.73	0.87477	0.21385	0.09945	0.00232	638.15	119.26	112.64	611.17	13.60	13.58	734.90	564.25	478.44
P1462_001_Zrn_A_1_POS_72	666.89	18.19	18.16	206Pb/238U	171	1.78	0.93604	0.07250	0.10899	0.00313	670.81	38.38	37.67	666.89	18.19	18.16	683.99	166.23	157.92

**Table 2.** U–Pb age data from the Cretaceous Colombian back–arc basin (*continued*).

Analysis name	Preferred age (Ma)	Sample QSA-92																	
		2 –sigma	2 +sigma	Age type	[U] (ppm)	U/Th	207Pb/235U Ratio	2 sigma	206Pb/238U Ratio	2 sigma	207Pb/235Uc age (Ma)	2 –sigma	2 +sigma	206Pb/238U age (Ma)	2 –sigma	2 +sigma	207Pb/206Pb age (Ma)	2 –sigma	2 +sigma
P1462_001_Zrn_A_1_POS_38	810.10	52.64	52.42	206Pb/238U	393	4.55	1.36146	0.18727	0.13390	0.00924	872.50	82.16	78.97	810.10	52.64	52.42	1034.37	292.64	267.35
P1462_001_Zrn_A_1_POS_84	892.44	31.28	31.20	206Pb/238U	47	1.33	1.36726	0.12715	0.14848	0.00557	874.99	55.28	53.82	892.44	31.28	31.20	831.07	192.31	181.18
P1462_001_Zrn_A_1_POS_29	892.54	27.50	27.44	206Pb/238U	428	5.63	1.55716	0.14694	0.14850	0.00489	953.34	59.20	57.53	892.54	27.50	27.44	1096.44	199.44	187.33
P1462_001_Zrn_A_1_POS_61	899.85	31.65	31.57	206Pb/238U	115	2.70	1.42384	0.09137	0.14980	0.00564	898.97	38.64	37.92	899.85	31.65	31.57	896.82	141.06	134.96
P1462_001_Zrn_A_1_POS_63	901.78	23.25	23.21	206Pb/238U	264	2.45	1.43919	0.06230	0.15015	0.00414	905.38	26.10	25.77	901.78	23.25	23.21	914.18	90.17	87.64
P1462_001_Zrn_A_1_POS_64	930.98	25.32	25.01	207Pb/235Uc	182	1.03	1.50147	0.06199	0.15438	0.01820	930.98	25.32	25.01	925.45	102.04	101.24	944.10	260.80	240.63
P1462_001_Zrn_A_1_POS_88	932.91	29.12	29.05	206Pb/238U	151	1.78	1.52536	0.09231	0.15571	0.00521	940.63	37.46	36.78	932.91	29.12	29.05	958.77	125.31	120.45
P1462_001_Zrn_A_1_POS_31	949.08	20.40	20.37	206Pb/238U	660	13.56	1.56635	0.05573	0.15862	0.00366	956.98	22.17	21.93	949.08	20.40	20.37	975.21	74.79	73.03
P1462_001_Zrn_A_1_POS_92	956.64	371.67	361.26	206Pb/238U	2	0.03	4.54805	6.79585	0.15998	0.06592	1739.80	1925.01	970.21	956.64	371.67	361.26	2875.85	5611.90	1789.68
P1462_001_Zrn_A_1_POS_70	961.69	17.31	17.29	206Pb/238U	732	2.73	1.58977	0.05244	0.16088	0.00312	966.21	20.67	20.46	961.69	17.31	17.29	976.50	67.26	65.83
P1462_001_Zrn_A_1_POS_35	981.02	38.18	38.07	206Pb/238U	124	3.82	1.71332	0.11502	0.16437	0.00689	1013.53	43.51	42.59	981.02	38.18	38.07	1084.44	118.75	114.36
P1462_001_Zrn_A_1_POS_40	994.47	23.78	23.74	206Pb/238U	198	4.71	1.65294	0.07379	0.16680	0.00430	990.68	28.44	28.05	994.47	23.78	23.74	982.29	90.06	87.52
P1462_001_Zrn_A_1_POS_74	1010.48	25.92	25.87	206Pb/238U	83	1.92	1.71979	0.10416	0.16970	0.00470	1015.95	39.26	38.52	1010.48	25.92	25.87	1027.76	120.56	116.04
P1462_001_Zrn_A_1_POS_106	1012.04	26.27	25.93	207Pb/235Uc	733	6.73	1.70935	0.06963	0.16692	0.00486	1012.04	26.27	25.93	995.09	26.87	26.82	1048.90	77.16	75.28
P1462_001_Zrn_A_1_POS_8	1013.51	23.94	23.90	206Pb/238U	353	5.30	1.76501	0.07006	0.17025	0.00434	1032.69	25.89	25.57	1013.51	23.94	23.90	1073.54	80.60	78.55
P1462_001_Zrn_A_1_POS_60	1018.63	25.19	25.14	206Pb/238U	508	1.58	2.00451	0.24704	0.17118	0.00457	1117.04	85.25	81.82	1018.63	25.19	25.14	1313.86	246.93	228.42
P1462_001_Zrn_A_1_POS_51	1023.67	39.51	39.39	206Pb/238U	224	4.00	1.90404	0.15310	0.17210	0.00717	1082.50	54.25	52.84	1023.67	39.51	39.39	1202.92	174.88	165.44
P1462_001_Zrn_A_1_POS_68	1059.50	21.69	21.65	206Pb/238U	331	6.83	1.90655	0.09539	0.17863	0.00396	1083.38	33.60	33.05	1059.50	21.69	21.65	1131.72	100.54	97.36
P1462_001_Zrn_A_1_POS_36	1106.66	31.21	31.14	206Pb/238U	328	7.34	1.94014	0.13785	0.18729	0.00574	1095.05	48.17	47.06	1106.66	31.21	31.14	1072.04	142.40	136.12
P1462_001_Zrn_A_1_POS_10	1129.05	42.25	42.11	206Pb/238U	56	4.66	2.07593	0.27675	0.19142	0.00780	1140.89	93.47	89.36	1129.05	42.25	42.11	1163.48	274.64	252.10
P1462_001_Zrn_A_1_POS_78	1129.37	23.84	23.79	206Pb/238U	1019	3.06	2.09420	0.10998	0.19148	0.00440	1146.91	36.42	35.77	1129.37	23.84	23.79	1180.23	103.98	100.57
P1462_001_Zrn_A_1_POS_69	1166.02	76.88	74.07	207Pb/235Uc	179	4.50	2.15300	0.23426	0.18937	0.01925	1166.02	76.88	74.07	1117.97	104.78	103.94	1256.41	302.04	274.87
P1462_001_Zrn_A_1_POS_25	1204.78	34.28	34.19	206Pb/238U	113	1.90	2.25448	0.11472	0.20550	0.00640	1198.19	36.11	35.48	1204.78	34.28	34.19	1186.32	102.92	99.58
P1462_001_Zrn_A_1_POS_33	1211.44	28.33	27.94	207Pb/235Uc	420	6.79	2.29726	0.09137	0.20393	0.00571	1211.44	28.33	27.94	1196.42	30.63	30.56	1238.32	72.28	70.61
P1462_001_Zrn_A_1_POS_90	1217.41	27.48	27.42	206Pb/238U	292	2.71	2.32963	0.20437	0.20786	0.00514	1221.37	63.30	61.39	1217.41	27.48	27.42	1228.36	176.07	166.49
P1462_001_Zrn_A_1_POS_30	1219.27	38.07	37.37	207Pb/235Uc	37	3.40	2.32276	0.12342	0.20901	0.00722	1219.27	38.07	37.37	1223.52	38.53	38.41	1211.75	105.24	101.75
P1462_001_Zrn_A_1_POS_37	1222.66	34.86	34.27	207Pb/235Uc	143	3.71	2.33388	0.11347	0.20778	0.00646	1222.66	34.86	34.27	1216.97	34.54	34.45	1232.71	88.14	85.68
P1462_001_Zrn_A_1_POS_65	1267.28	31.71	31.63	206Pb/238U	140	3.00	2.47876	0.12824	0.21724	0.00598	1265.85	37.78	37.09	1267.28	31.71	31.63	1263.43	101.83	98.54
P1462_001_Zrn_A_1_POS_4	1276.43	33.02	32.93	206Pb/238U	214	3.12	2.62294	0.12220	0.21897	0.00624	1307.09	34.54	33.96	1276.43	33.02	32.93	1357.76	94.36	91.52
P1462_001_Zrn_A_1_POS_71	1295.79	23.28	23.02	207Pb/235Uc	221	2.36	2.58285	0.08167	0.21973	0.00504	1295.79	23.28	23.02	1280.46	26.68	26.63	1321.28	60.40	59.23
P1462_001_Zrn_A_1_POS_42	1308.20	31.27	30.79	207Pb/235Uc	358	2.28	2.62691	0.11083	0.21742	0.00618	1308.20	31.27	30.79	1268.22	32.78	32.70	1374.37	81.56	79.43
P1462_001_Zrn_A_1_POS_66	1311.37	35.21	35.11	206Pb/238U	190	2.82	2.66623	0.17675	0.22560	0.00668	1319.15	49.55	48.37	1311.37	35.21	35.11	1331.81	131.86	126.39
P1462_001_Zrn_A_1_POS_23	1381.27	41.69	41.56	206Pb/238U	72	1.28	3.10135	0.19256	0.23896	0.00800	1433.03	48.24	47.12	1381.27	41.69	41.56	1510.74	115.83	111.55
P1462_001_Zrn_A_1_POS_9	1400.21	34.44	34.35	206Pb/238U	156	1.84	3.03086	0.47661	0.24260	0.00663	1415.42	123.75	116.64	1400.21	34.44	34.35	1438.40	314.62	284.99
P1462_001_Zrn_A_1_POS_7	1419.64	29.54	29.11	207Pb/235Uc	407	2.30	3.04764	0.11689	0.24632	0.00649	1419.64	29.54	29.11	1419.48	33.61	33.53	1419.88	69.07	67.53
P1462_001_Zrn_A_1_POS_17	1453.42	34.46	34.37	206Pb/238U	122	1.86	3.11840	0.13920	0.25290	0.00669	1437.24	34.61	34.03	1453.42	34.46	34.37	1413.37	82.78	80.58
P1462_001_Zrn_A_1_POS_59	1470.17	28.63	28.23	207Pb/235Uc	323	3.47	3.25415	0.11911	0.25304	0.00621	1470.17	28.63	28.23	1454.15	32.01	31.93	1493.37	67.04	65.58
P1462_001_Zrn_A_1_POS_52	1489.11	37.40	37.29	206Pb/238U	85	2.29	3.39704	0.19827	0.25986	0.00730	1503.71	46.31	45.28	1489.11	37.40	37.29	1524.35	108.90	105.10
P1462_001_Zrn_A_1_POS_53	1495.11	28.48	28.09	207Pb/235Uc	705	4.98	3.35993	0.12144	0.25118	0.00686	1495.11	28.48	28.09	1444.55	35.42	35.32	1567.54	67.61	66.13
P1462_001_Zrn_A_1_POS_43	1495.15	30.99	30.52	207Pb/235Uc	227	1.64	3.36009	0.13205	0.25637	0.00802	1495.15	30.99	30.52	1471.24	41.20	41.07	1529.20	63.90	62.58
P1462_001_Zrn_A_1_POS_80	1517.85	65.95	65.62	206Pb/238U	110	1.52	3.84139	1.07018	0.26549	0.01291	1601.47	237.85	212.89	1517.85	65.95	65.62	1713.28	565.05	475.00
P1462_001_Zrn_A_1_POS_104	1541.99	63.14	61.24	207Pb/235Uc	288	2.44	3.56595	0.27957	0.25788	0.01643	1541.99	63.14	61.24	1478.98	84.48	83.93	1629.47	120.76	116.08



**Table 2.** U–Pb age data from the Cretaceous Colombian back–arc basin (*continued*).

Sample QSA–92																			
Analysis name	Preferred age (Ma)	2–sigma	2 +sigma	Age type	[U] (ppm)	U/Th	207Pb/235U Ratio	2 sigma	206Pb/238U Ratio	2 sigma	207Pb/235Uc age (Ma)	2–sigma	2 +sigma	206Pb/238U age (Ma)	2–sigma	2 +sigma	207Pb/206Pb age (Ma)	2–sigma	2 +sigma
P1462_001_Zrn_A_1_POS_13	1546.82	31.03	30.56	207Pb/235Uc	388	3.36	3.58774	0.13914	0.27576	0.00694	1546.82	31.03	30.56	1569.99	35.10	35.01	1515.32	73.45	71.70
P1462_001_Zrn_A_1_POS_32	1550.53	56.54	55.00	207Pb/235Uc	208	2.70	3.60451	0.25284	0.26465	0.01525	1550.53	56.54	55.00	1513.57	77.95	77.48	1601.26	109.64	105.78
P1462_001_Zrn_A_1_POS_1	1571.56	39.06	38.32	207Pb/235Uc	115	1.19	3.70090	0.17910	0.27456	0.00996	1571.56	39.06	38.32	1563.92	50.45	50.25	1581.84	101.02	97.74
P1462_001_Zrn_A_1_POS_26	1578.67	43.37	43.23	206Pb/238U	81	1.65	3.71862	0.28840	0.27748	0.00858	1575.38	63.03	61.13	1578.67	43.37	43.23	1570.99	147.69	140.78
P1462_001_Zrn_A_1_POS_45	1587.78	36.58	35.94	207Pb/235Uc	378	2.61	3.77658	0.17056	0.27122	0.00992	1587.78	36.58	35.94	1547.00	50.39	50.20	1642.37	83.04	80.80
P1462_001_Zrn_A_1_POS_15	1608.05	48.82	47.68	207Pb/235Uc	213	1.46	3.87289	0.23152	0.26977	0.00963	1608.05	48.82	47.68	1539.66	48.97	48.78	1698.82	118.83	114.28
P1462_001_Zrn_A_1_POS_89	1670.61	44.01	43.08	207Pb/235Uc	148	2.37	4.18255	0.22221	0.28855	0.00853	1670.61	44.01	43.08	1634.30	42.73	42.59	1716.53	93.40	90.56
P1462_001_Zrn_A_1_POS_99	1687.62	111.07	107.09	207Pb/206Pb	743	1.49	3.74877	0.49899	0.26272	0.03239	1581.85	109.60	103.99	1503.74	166.42	164.30	1687.62	111.07	107.09
P1462_001_Zrn_A_1_POS_50	1727.62	88.11	84.44	207Pb/235Uc	144	2.13	4.48186	0.46551	0.29772	0.02990	1727.62	88.11	84.44	1679.97	149.41	147.70	1785.83	142.31	135.82
P1462_001_Zrn_A_1_POS_75	1739.97	33.38	32.84	207Pb/235Uc	162	1.74	4.54896	0.18092	0.29997	0.00825	1739.97	33.38	32.84	1691.16	40.99	40.86	1799.16	72.86	71.12
P1462_001_Zrn_A_1_POS_85	1745.34	24.94	24.64	207Pb/235Uc	197	1.87	4.57837	0.13620	0.31066	0.00660	1745.34	24.94	24.64	1743.97	32.49	32.41	1746.98	55.26	54.25
P1462_001_Zrn_A_1_POS_34	1795.90	41.45	40.62	207Pb/235Uc	103	2.16	4.86317	0.23690	0.32022	0.00874	1795.90	41.45	40.62	1790.80	42.73	42.59	1801.82	88.82	86.24
P1462_001_Zrn_A_1_POS_0	1800.12	38.62	37.90	207Pb/235Uc	124	3.01	4.88761	0.22180	0.32381	0.00915	1800.12	38.62	37.90	1808.32	44.62	44.46	1790.64	81.57	79.39
P1462_001_Zrn_A_1_POS_2	1815.90	40.75	39.94	207Pb/235Uc	219	1.73	4.97981	0.23757	0.32623	0.01187	1815.90	40.75	39.94	1820.07	57.82	57.57	1811.12	78.20	76.20
P1462_001_Zrn_A_1_POS_87	1817.84	34.77	34.19	207Pb/235Uc	114	1.71	4.99125	0.20343	0.31682	0.01202	1817.84	34.77	34.19	1774.18	58.97	58.70	1868.25	79.10	77.04
P1462_001_Zrn_A_1_POS_49	1838.31	38.88	38.15	207Pb/235Uc	187	1.37	5.11324	0.23186	0.32444	0.01187	1838.31	38.88	38.15	1811.36	57.90	57.64	1868.95	68.49	66.94
P1462_001_Zrn_A_1_POS_62	1856.06	41.55	40.72	207Pb/235Uc	164	2.02	5.22106	0.25201	0.32282	0.01119	1856.06	41.55	40.72	1803.49	54.65	54.42	1915.47	89.16	86.55
P1462_001_Zrn_A_1_POS_86	1864.25	41.85	41.01	207Pb/235Uc	443	3.65	5.27145	0.25584	0.32932	0.01176	1864.25	41.85	41.01	1835.08	57.14	56.89	1896.94	76.01	74.11
P1462_001_Zrn_A_1_POS_22	1918.88	34.90	34.31	207Pb/235Uc	222	2.27	5.61811	0.22555	0.33443	0.01173	1918.88	34.90	34.31	1859.82	56.78	56.53	1983.32	69.43	67.83
P1462_001_Zrn_A_1_POS_28	1950.73	28.15	27.77	207Pb/235Uc	472	3.98	5.82895	0.18804	0.35238	0.00960	1950.73	28.15	27.77	1945.94	45.84	45.68	1955.80	60.55	59.34
P1462_001_Zrn_A_1_POS_44	1962.97	45.92	44.91	207Pb/235Uc	159	5.95	5.91180	0.30909	0.35556	0.01632	1962.97	45.92	44.91	1961.09	77.84	77.37	1964.95	71.78	70.08
P1462_001_Zrn_A_1_POS_14	2007.90	58.90	58.64	206Pb/238U	73	1.38	6.81766	1.01814	0.36544	0.01245	2088.02	136.74	128.11	2007.90	58.90	58.64	2167.97	269.63	246.86
P1462_001_Zrn_A_1_POS_39	2015.89	30.02	29.58	207Pb/235Uc	239	9.63	6.28162	0.21368	0.36007	0.00961	2015.89	30.02	29.58	1982.50	45.63	45.47	2050.27	60.59	59.37
P1462_001_Zrn_A_1_POS_83	2069.71	51.06	49.80	207Pb/235Uc	121	1.81	6.67796	0.38125	0.37225	0.01091	2069.71	51.06	49.80	2039.97	51.35	51.14	2099.45	101.13	97.76
P1462_001_Zrn_A_1_POS_20	2746.68	29.12	28.70	207Pb/235Uc	268	2.53	13.95528	0.42577	0.52512	0.01287	2746.68	29.12	28.70	2720.87	54.52	54.29	2765.70	50.35	49.48
P1462_001_Zrn_A_1_POS_105	3908.13	3020.52	1303.73	207Pb/206Pb	0	0.18	9.28174	16.26151	0.16840	0.24782	2366.22	3177.02	1183.25	1003.29	1445.37	1299.54	3908.13	3020.52	1303.73

  

Sample RR–00																			
Analysis name	Preferred age (Ma)	2–sigma	2 +sigma	Age type	[U] (ppm)	U/Th	207Pb/235U Ratio	2 sigma	206Pb/238U Ratio	2 sigma	207Pb/235Uc age (Ma)	2–sigma	2 +sigma	206Pb/238U age (Ma)	2–sigma	2 +sigma	207Pb/206Pb age (Ma)	2–sigma	2 +sigma
P1462_132_Zrn_A_1_MBD_11	442.09	17.19	17.16	206Pb/238U	493	1.45	0.52658	0.03743	0.07099	0.00285	429.54	25.05	24.74	442.09	17.19	17.16	362.74	152.02	145.18
P1462_132_Zrn_A_1_MBD_15	743.63	85.01	84.46	206Pb/238U	105	2.16	1.36958	0.34443	0.12227	0.01475	875.98	153.23	142.48	743.63	85.01	84.46	1227.19	542.98	461.10
P1462_132_Zrn_A_1_MBD_98	873.07	62.14	61.84	206Pb/238U	81	1.41	1.47794	0.25386	0.14504	0.01101	921.39	106.78	101.45	873.07	62.14	61.84	1038.92	381.01	339.21
P1462_132_Zrn_A_1_MBD_72	882.26	42.63	42.49	206Pb/238U	201	2.12	1.40738	0.11236	0.14667	0.00757	892.05	47.95	46.84	882.26	42.63	42.49	916.41	146.65	140.06
P1462_132_Zrn_A_1_MBD_35	890.38	27.52	27.47	206Pb/238U	420	3.32	1.47921	0.08365	0.14811	0.00490	921.91	34.55	33.97	890.38	27.52	27.47	998.12	105.50	102.03
P1462_132_Zrn_A_1_MBD_75	904.87	100.98	96.20	207Pb/235Uc	258	1.59	1.43797	0.23653	0.12311	0.01551	904.87	100.98	96.20	748.45	89.34	88.73	1308.95	330.68	298.30
P1462_132_Zrn_A_1_MBD_29	961.23	35.59	35.49	206Pb/238U	342	1.60	1.61144	0.09308	0.16080	0.00640	974.67	36.52	35.87	961.23	35.59	35.49	1005.08	101.39	98.18
P1462_132_Zrn_A_1_MBD_109	977.32	29.14	29.08	206Pb/238U	428	2.00	1.66820	0.09052	0.16370	0.00525	996.50	34.74	34.16	977.32	29.14	29.08	1038.95	94.98	92.15
P1462_132_Zrn_A_1_MBD_17	1046.09	33.39	33.30	206Pb/238U	148	2.41	1.75975	0.14534	0.17618	0.00608	1030.76	54.19	52.78	1046.09	33.39	33.30	998.36	162.96	154.82
P1462_132_Zrn_A_1_MBD_40	1070.88	55.86	55.62	206Pb/238U	116	2.96	1.78954	0.16243	0.18072	0.01021	1041.66	60.00	58.28	1070.88	55.86	55.62	980.84	162.41	154.33
P1462_132_Zrn_A_1_MBD_48	1121.58	57.34	57.09	206Pb/238U	235	2.12	2.16441	0.19238	0.19004	0.01056	1169.69	62.69	60.81	1121.58	57.34	57.09	1259.87	159.92	151.96
P1462_132_Zrn_A_1_MBD_102	1195.13	41.99	41.86	206Pb/238U	274	3.11	2.37192	0.14846	0.20369	0.00783	1234.18	45.20	44.22	1195.13	41.99	41.86	1303.04	106.13	102.56

**Table 2.** U–Pb age data from the Cretaceous Colombian back–arc basin (*continued*).

Analysis name	Preferred age (Ma)	Sample RR-00																	
		2 –sigma	2 +sigma	Age type	[U] (ppm)	U/Th	207Pb/235U Ratio	2 sigma	206Pb/238U Ratio	2 sigma	207Pb/235Uc age (Ma)	2 –sigma	2 +sigma	206Pb/238U age (Ma)	2 –sigma	2 +sigma	207Pb/206Pb age (Ma)	2 –sigma	2 +sigma
P1462_132_Zrn_A_1_MBD_64	1220.69	118.81	117.73	206Pb/238U	46	0.60	2.63609	0.46188	0.20848	0.02217	1310.77	133.26	125.05	1220.69	118.81	117.73	1461.34	316.38	286.40
P1462_132_Zrn_A_1_MBD_20	1266.74	41.61	41.47	206Pb/238U	204	1.79	2.44367	0.16489	0.21714	0.00784	1255.56	49.21	48.05	1266.74	41.61	41.47	1236.45	125.30	120.37
P1462_132_Zrn_A_1_MBD_81	1279.02	38.28	38.17	206Pb/238U	276	3.32	2.63336	0.21111	0.21946	0.00723	1310.01	59.87	58.16	1279.02	38.28	38.17	1361.10	148.00	141.13
P1462_132_Zrn_A_1_MBD_37	1281.69	63.23	61.32	207Pb/235Uc	95	1.33	2.53343	0.21663	0.20862	0.01278	1281.69	63.23	61.32	1221.46	68.35	67.99	1384.12	140.29	134.10
P1462_132_Zrn_A_1_MBD_21	1298.39	46.35	45.32	207Pb/235Uc	185	3.27	2.59205	0.16211	0.22195	0.00946	1298.39	46.35	45.32	1292.19	50.00	49.81	1308.66	104.56	101.10
P1462_132_Zrn_A_1_MBD_89	1301.32	35.04	34.94	206Pb/238U	304	2.18	2.57801	0.12566	0.22368	0.00664	1294.42	35.98	35.35	1301.32	35.04	34.94	1283.00	84.89	82.59
P1462_132_Zrn_A_1_MBD_26	1310.50	52.51	52.30	206Pb/238U	161	4.93	2.83505	0.25991	0.22543	0.00996	1364.86	70.01	67.67	1310.50	52.51	52.30	1451.02	172.28	163.00
P1462_132_Zrn_A_1_MBD_22	1312.31	45.96	44.94	207Pb/235Uc	161	2.52	2.64161	0.16298	0.22749	0.00898	1312.31	45.96	44.94	1321.33	47.23	47.06	1297.60	106.89	103.27
P1462_132_Zrn_A_1_MBD_80	1326.73	45.16	44.18	207Pb/235Uc	224	4.55	2.69372	0.16247	0.22244	0.01301	1326.73	45.16	44.18	1294.73	68.77	68.41	1378.78	149.67	142.64
P1462_132_Zrn_A_1_MBD_77	1328.10	36.22	35.58	207Pb/235Uc	520	2.34	2.69869	0.13076	0.22218	0.00714	1328.10	36.22	35.58	1293.39	37.71	37.60	1384.53	79.50	77.47
P1462_132_Zrn_A_1_MBD_71	1366.09	54.51	54.28	206Pb/238U	235	1.76	2.64945	0.28491	0.23604	0.01043	1314.49	80.86	77.76	1366.09	54.51	54.28	1231.31	207.98	194.75
P1462_132_Zrn_A_1_MBD_34	1379.90	48.32	47.19	207Pb/235Uc	56	2.11	2.89228	0.18302	0.24179	0.01129	1379.90	48.32	47.19	1396.01	58.75	58.48	1355.07	124.09	119.22
P1462_132_Zrn_A_1_MBD_99	1405.46	42.16	42.02	206Pb/238U	301	3.38	2.85189	0.16492	0.24361	0.00812	1369.31	43.95	43.02	1405.46	42.16	42.02	1313.34	106.90	103.28
P1462_132_Zrn_A_1_MBD_79	1413.80	51.43	50.16	207Pb/235Uc	94	2.48	3.02440	0.20127	0.24362	0.01069	1413.80	51.43	50.16	1405.47	55.51	55.28	1426.37	118.36	113.91
P1462_132_Zrn_A_1_MBD_94	1446.64	52.14	50.84	207Pb/235Uc	145	1.42	3.15671	0.21074	0.25106	0.01025	1446.64	52.14	50.84	1443.93	52.94	52.72	1450.63	109.30	105.49
P1462_132_Zrn_A_1_MBD_4	1458.10	54.73	54.50	206Pb/238U	95	0.87	3.24105	0.25543	0.25381	0.01062	1467.04	62.09	60.25	1458.10	54.73	54.50	1480.00	136.09	130.22
P1462_132_Zrn_A_1_MBD_54	1459.62	58.80	58.53	206Pb/238U	192	2.80	3.77922	0.35530	0.25411	0.01141	1588.34	76.92	74.12	1459.62	58.80	58.53	1763.69	165.37	156.67
P1462_132_Zrn_A_1_MBD_16	1461.50	85.38	84.82	206Pb/238U	55	1.38	3.52795	0.42184	0.25447	0.01656	1533.50	96.87	92.46	1461.50	85.38	84.82	1634.27	214.32	200.01
P1462_132_Zrn_A_1_MBD_90	1474.07	44.93	43.96	207Pb/235Uc	383	2.93	3.27052	0.18690	0.24902	0.00972	1474.07	44.93	43.96	1433.41	50.29	50.09	1533.11	89.12	86.56
P1462_132_Zrn_A_1_MBD_97	1483.77	44.42	43.47	207Pb/235Uc	530	2.64	3.31152	0.18655	0.25470	0.01005	1483.77	44.42	43.47	1462.69	51.73	51.52	1514.04	91.60	88.90
P1462_132_Zrn_A_1_MBD_63	1500.88	49.79	48.60	207Pb/235Uc	124	0.77	3.38477	0.21239	0.25235	0.00986	1500.88	49.79	48.60	1450.58	50.88	50.68	1572.63	105.26	101.70
P1462_132_Zrn_A_1_MBD_57	1505.30	50.07	48.86	207Pb/235Uc	54	1.20	3.40391	0.21449	0.26584	0.01346	1505.30	50.07	48.86	1519.67	68.75	68.38	1485.14	96.63	93.64
P1462_132_Zrn_A_1_MBD_62	1505.50	45.79	44.78	207Pb/235Uc	274	2.84	3.40478	0.19643	0.25473	0.01035	1505.50	45.79	44.78	1462.84	53.26	53.04	1566.05	92.16	89.42
P1462_132_Zrn_A_1_MBD_107	1512.73	46.33	46.16	206Pb/238U	157	1.64	3.46285	0.21358	0.26448	0.00907	1518.80	49.18	48.02	1512.73	46.33	46.16	1527.26	106.29	102.67
P1462_132_Zrn_A_1_MBD_31	1524.42	59.73	58.03	207Pb/235Uc	180	1.62	3.48764	0.26016	0.26880	0.01210	1524.42	59.73	58.03	1534.72	61.60	61.31	1510.16	130.35	124.95
P1462_132_Zrn_A_1_MBD_83	1535.05	71.55	69.12	207Pb/235Uc	279	4.59	3.53486	0.31401	0.23683	0.01480	1535.05	71.55	69.12	1370.22	77.38	76.92	1770.17	147.74	140.76
P1462_132_Zrn_A_1_MBD_95	1555.86	38.29	37.58	207Pb/235Uc	547	1.70	3.62877	0.17292	0.26801	0.00826	1555.86	38.29	37.58	1530.69	42.07	41.94	1590.21	81.20	79.07
P1462_132_Zrn_A_1_MBD_45	1560.76	87.06	83.48	207Pb/235Uc	95	2.13	3.65113	0.39035	0.25620	0.01694	1560.76	87.06	83.48	1470.35	87.20	86.62	1685.32	176.90	167.01
P1462_132_Zrn_A_1_MBD_91	1563.17	41.21	40.39	207Pb/235Uc	417	2.37	3.66221	0.18732	0.26865	0.00943	1563.17	41.21	40.39	1533.93	47.99	47.81	1602.90	81.23	79.09
P1462_132_Zrn_A_1_MBD_70	1566.68	58.79	58.53	206Pb/238U	188	2.34	3.99122	0.36798	0.27511	0.01160	1632.41	76.27	73.51	1566.68	58.79	58.53	1718.17	160.09	151.94
P1462_132_Zrn_A_1_MBD_36	1570.28	57.20	56.94	206Pb/238U	160	1.21	3.54180	0.25143	0.27582	0.01129	1536.60	57.00	55.45	1570.28	57.20	56.94	1490.56	122.93	118.12
P1462_132_Zrn_A_1_MBD_101	1589.61	66.33	64.23	207Pb/235Uc	54	0.92	3.78518	0.30754	0.27326	0.01362	1589.61	66.33	64.23	1557.34	69.15	68.78	1632.67	133.97	128.24
P1462_132_Zrn_A_1_MBD_43	1592.01	86.14	82.64	207Pb/235Uc	41	1.10	3.79652	0.39842	0.27080	0.01895	1592.01	86.14	82.64	1544.87	96.46	95.75	1655.00	186.15	175.26
P1462_132_Zrn_A_1_MBD_38	1595.56	66.24	64.14	207Pb/235Uc	151	1.24	3.81331	0.30892	0.26657	0.01621	1595.56	66.24	64.14	1523.39	82.79	82.26	1692.24	120.65	115.97
P1462_132_Zrn_A_1_MBD_104	1624.78	45.96	44.94	207Pb/235Uc	523	1.90	3.95386	0.22171	0.28276	0.01016	1624.78	45.96	44.94	1605.23	51.17	50.97	1650.19	92.63	89.85
P1462_132_Zrn_A_1_MBD_27	1641.25	101.37	96.55	207Pb/235Uc	167	4.83	4.03484	0.49031	0.26473	0.02769	1641.25	101.37	96.55	1513.99	141.89	140.35	1808.33	142.95	136.39
P1462_132_Zrn_A_1_MBD_51	1660.00	72.09	69.62	207Pb/235Uc	72	1.08	4.12872	0.35775	0.27882	0.01588	1660.00	72.09	69.62	1585.43	80.29	79.79	1755.68	140.08	133.79
P1462_132_Zrn_A_1_MBD_19	1661.93	50.73	49.50	207Pb/235Uc	200	1.62	4.13844	0.25356	0.28214	0.01045	1661.93	50.73	49.50	1602.12	52.66	52.44	1738.34	102.06	98.68
P1462_132_Zrn_A_1_MBD_25	1662.15	47.23	46.15	207Pb/235Uc	188	1.62	4.13957	0.23629	0.27293	0.01120	1662.15	47.23	46.15	1555.64	56.83	56.58	1799.47	104.08	100.56
P1462_132_Zrn_A_1_MBD_41	1665.23	45.13	44.15	207Pb/235Uc	185	2.00	4.15517	0.22662	0.29925	0.01115	1665.23	45.13	44.15	1687.59	55.44	55.20	1637.15	94.92	92.01
P1462_132_Zrn_A_1_MBD_46	1683.12	99.98	95.29	207Pb/235Uc	131	1.64	4.24681	0.50412	0.27360	0.01920	1683.12	99.98	95.29	1559.03	97.56	96.83	1841.44	207.22	193.69
P1462_132_Zrn_A_1_MBD_1	1694.24	65.18	63.15	207Pb/235Uc	304	2.67	4.30459	0.33511	0.29893	0.01639	1694.24	65.18	63.15	1686.02	81.59	81.08	1704.42	109.01	105.17

**Table 2.** U–Pb age data from the Cretaceous Colombian back–arc basin (*continued*).

Sample RR–00																			
Analysis name	Preferred age (Ma)	2–sigma	2 +sigma	Age type	[U] (ppm)	U/Th	207Pb/235U Ratio	2 sigma	206Pb/238U Ratio	2 sigma	207Pb/235Uc age (Ma)	2–sigma	2 +sigma	206Pb/238U age (Ma)	2–sigma	2 +sigma	207Pb/206Pb age (Ma)	2–sigma	2 +sigma
P1462_132_Zrn_A_1_MBD_55	1713.96	83.50	80.20	207Pb/235Uc	56	0.68	4.40860	0.43575	0.30783	0.01834	1713.96	83.50	80.20	1730.04	90.74	90.10	1694.37	161.87	153.56
P1462_132_Zrn_A_1_MBD_18	1718.74	50.10	48.89	207Pb/235Uc	227	1.12	4.43411	0.26484	0.30407	0.01124	1718.74	50.10	48.89	1711.45	55.67	55.43	1727.63	94.23	91.34
P1462_132_Zrn_A_1_MBD_6	1729.42	60.06	58.33	207Pb/235Uc	143	1.60	4.49160	0.32007	0.30398	0.01368	1729.42	60.06	58.33	1711.00	67.80	67.45	1751.78	105.68	102.07
P1462_132_Zrn_A_1_MBD_28	1735.16	128.41	120.78	207Pb/235Uc	127	1.98	4.52271	0.67683	0.27384	0.02958	1735.16	128.41	120.78	1560.28	150.55	148.81	1952.98	211.51	197.37
P1462_132_Zrn_A_1_MBD_9	1745.78	46.96	45.90	207Pb/235Uc	139	1.59	4.58082	0.25515	0.31430	0.01179	1745.78	46.96	45.90	1761.84	57.93	57.68	1726.61	87.67	85.17
P1462_132_Zrn_A_1_MBD_24	1769.97	70.04	67.70	207Pb/235Uc	289	1.82	4.71537	0.38750	0.30136	0.01829	1769.97	70.04	67.70	1698.06	90.92	90.28	1855.91	131.91	126.29
P1462_132_Zrn_A_1_MBD_85	1776.19	39.22	38.48	207Pb/235Uc	304	0.88	4.75046	0.22001	0.31786	0.00944	1776.19	39.22	38.48	1779.25	46.24	46.07	1772.60	69.82	68.22
P1462_132_Zrn_A_1_MBD_73	1776.48	65.45	63.41	207Pb/235Uc	115	2.14	4.75212	0.36487	0.32088	0.01874	1776.48	65.45	63.41	1794.04	91.81	91.16	1755.91	101.16	97.84
P1462_132_Zrn_A_1_MBD_33	1777.57	62.57	60.70	207Pb/235Uc	126	1.35	4.75831	0.34943	0.31583	0.01786	1777.57	62.57	60.70	1769.34	87.81	87.21	1787.26	138.30	132.15
P1462_132_Zrn_A_1_MBD_68	1780.56	46.56	45.52	207Pb/235Uc	271	1.44	4.77525	0.26182	0.30495	0.01309	1780.56	46.56	45.52	1715.82	64.81	64.49	1857.31	93.44	90.59
P1462_132_Zrn_A_1_MBD_32	1786.44	48.60	47.47	207Pb/235Uc	224	1.37	4.80883	0.27475	0.31744	0.01297	1786.44	48.60	47.47	1777.21	63.64	63.33	1797.24	86.29	83.85
P1462_132_Zrn_A_1_MBD_0	1792.69	60.12	58.39	207Pb/235Uc	180	2.50	4.84470	0.34096	0.31770	0.01575	1792.69	60.12	58.39	1778.49	77.29	76.83	1809.26	98.98	95.79
P1462_132_Zrn_A_1_MBD_58	1799.00	57.45	55.87	207Pb/235Uc	134	1.08	4.88110	0.32807	0.32700	0.01351	1799.00	57.45	55.87	1823.83	65.78	65.45	1770.33	106.09	102.44
P1462_132_Zrn_A_1_MBD_30	1799.39	63.61	61.68	207Pb/235Uc	139	1.84	4.88339	0.36285	0.30790	0.01789	1799.39	63.61	61.68	1730.34	88.48	87.87	1880.38	103.48	99.99
P1462_132_Zrn_A_1_MBD_14	1829.23	64.51	62.52	207Pb/235Uc	122	0.78	5.05883	0.37886	0.31329	0.01701	1829.23	64.51	62.52	1756.86	83.77	83.23	1912.63	113.13	108.97
P1462_132_Zrn_A_1_MBD_86	1830.19	52.97	51.62	207Pb/235Uc	188	1.48	5.06458	0.31227	0.32116	0.01308	1830.19	52.97	51.62	1795.38	63.99	63.67	1870.03	91.96	89.19
P1462_132_Zrn_A_1_MBD_78	1831.14	45.00	44.03	207Pb/235Uc	125	1.89	5.07025	0.26608	0.32260	0.01179	1831.14	45.00	44.03	1802.40	57.59	57.33	1863.98	80.80	78.65
P1462_132_Zrn_A_1_MBD_49	1840.47	44.53	43.58	207Pb/235Uc	90	1.19	5.12628	0.26576	0.34035	0.01368	1840.47	44.53	43.58	1888.34	65.97	65.64	1786.77	90.83	88.14
P1462_132_Zrn_A_1_MBD_23	1850.48	96.01	91.67	207Pb/235Uc	117	2.14	5.18696	0.57137	0.30735	0.02813	1850.48	96.01	91.67	1727.65	139.46	137.97	1991.49	126.14	120.96
P1462_132_Zrn_A_1_MBD_44	1850.80	63.91	63.59	206Pb/238U	98	1.93	5.08367	0.43483	0.33257	0.01318	1833.38	73.90	71.31	1850.80	63.91	63.59	1813.66	149.80	142.61
P1462_132_Zrn_A_1_MBD_3	1872.13	62.72	60.84	207Pb/235Uc	72	1.60	5.32032	0.38445	0.33073	0.01645	1872.13	62.72	60.84	1841.91	79.95	79.46	1905.85	113.63	109.43
P1462_132_Zrn_A_1_MBD_106	1875.55	59.60	57.90	207Pb/235Uc	121	2.17	5.34165	0.36682	0.32608	0.01316	1875.55	59.60	57.90	1819.35	64.12	63.80	1938.40	109.72	105.79
P1462_132_Zrn_A_1_MBD_84	1889.49	51.15	49.89	207Pb/235Uc	159	1.95	5.42931	0.31981	0.32425	0.01182	1889.49	51.15	49.89	1810.44	57.65	57.39	1977.51	91.33	88.59
P1462_132_Zrn_A_1_MBD_60	1899.44	67.03	64.89	207Pb/235Uc	233	1.67	5.49259	0.42162	0.32347	0.01935	1899.44	67.03	64.89	1806.67	94.59	93.90	2002.37	97.92	94.77
P1462_132_Zrn_A_1_MBD_13	1934.53	53.44	52.07	207Pb/235Uc	101	1.24	5.72086	0.34908	0.35252	0.01415	1934.53	53.44	52.07	1946.63	67.62	67.26	1921.58	91.96	89.18
P1462_132_Zrn_A_1_MBD_7	1949.15	54.18	52.77	207Pb/235Uc	331	2.40	5.81838	0.35903	0.34615	0.01324	1949.15	54.18	52.77	1916.20	63.56	63.25	1984.34	87.20	84.69
P1462_132_Zrn_A_1_MBD_56	1976.82	67.61	65.44	207Pb/235Uc	56	1.41	6.00671	0.45889	0.36548	0.01975	1976.82	67.61	65.44	2008.11	93.55	92.88	1944.23	112.00	107.91
P1462_132_Zrn_A_1_MBD_96	2049.71	60.12	58.39	207Pb/235Uc	152	2.85	6.52820	0.43922	0.36827	0.01692	2049.71	60.12	58.39	2021.25	79.95	79.45	2078.46	95.96	92.92

  

Sample RR1–15																			
Analysis name	Preferred age (Ma)	2–sigma	2 +sigma	Age type	[U] (ppm)	U/Th	207Pb/235U Ratio	2 sigma	206Pb/238U Ratio	2 sigma	207Pb/235Uc age (Ma)	2–sigma	2 +sigma	206Pb/238U age (Ma)	2–sigma	2 +sigma	207Pb/206Pb age (Ma)	2–sigma	2 +sigma
P1462_098_Zrn_A_1_POS_31	84.39	5.23	5.23	206Pb/238U	219	1.83	0.09252	0.04748	0.01318	0.00082	89.85	44.61	43.65	84.39	5.23	5.23	237.29	474.58	1009.99
P1462_098_Zrn_A_1_POS_57	84.52	5.02	5.02	206Pb/238U	183	2.37	0.09232	0.01680	0.01320	0.00079	89.67	15.68	15.56	84.52	5.02	5.02	228.92	457.63	404.56
P1462_098_Zrn_A_1_POS_88	85.00	3.75	3.74	206Pb/238U	152	3.05	0.09028	0.01670	0.01327	0.00059	87.77	15.61	15.49	85.00	3.75	3.74	163.59	327.17	412.89
P1462_098_Zrn_A_1_POS_9	85.06	5.87	5.86	206Pb/238U	265	2.78	0.08936	0.02095	0.01328	0.00092	86.91	19.62	19.43	85.06	5.87	5.86	137.98	275.96	520.70
P1462_098_Zrn_A_1_POS_93	86.19	4.49	4.49	206Pb/238U	482	1.97	0.09850	0.01578	0.01346	0.00071	95.39	14.64	14.53	86.19	4.49	4.49	332.05	389.11	347.27
P1462_098_Zrn_A_1_POS_105	86.54	3.79	3.78	206Pb/238U	354	2.00	0.09431	0.00861	0.01352	0.00060	91.51	8.01	7.98	86.54	3.79	3.78	223.04	218.50	204.76
P1462_098_Zrn_A_1_POS_7	86.70	6.66	6.66	206Pb/238U	130	2.46	0.09674	0.03151	0.01354	0.00105	93.76	29.39	28.97	86.70	6.66	6.66	277.53	555.07	683.58
P1462_098_Zrn_A_1_POS_8	86.99	3.54	3.54	206Pb/238U	299	4.03	0.09329	0.00856	0.01359	0.00056	90.56	7.97	7.94	86.99	3.54	3.54	185.79	229.74	214.63
P1462_098_Zrn_A_1_POS_22	87.16	3.75	3.74	206Pb/238U	482	2.08	0.09207	0.01394	0.01361	0.00059	89.43	13.00	12.92	87.16	3.75	3.74	150.58	301.16	337.66
P1462_098_Zrn_A_1_POS_3	87.17	3.54	3.54	206Pb/238U	632	2.53	0.09138	0.01066	0.01361	0.00056	88.78	9.94	9.89	87.17	3.54	3.54	132.40	264.80	266.97

**Table 2.** U–Pb age data from the Cretaceous Colombian back–arc basin (*continued*).

Analysis name	Preferred age (Ma)	Sample RR1–15																	
		2 –sigma	2 +sigma	Age type	[U] (ppm)	U/Th	207Pb/235U Ratio	2 sigma	206Pb/238U Ratio	2 sigma	207Pb/235Uc age (Ma)	2 –sigma	2 +sigma	206Pb/238U age (Ma)	2 –sigma	2 +sigma	207Pb/206Pb age (Ma)	2 –sigma	2 +sigma
P1462_098_Zrn_A_1_POS_101	87.38	5.08	5.08	206Pb/238U	233	2.37	0.09903	0.01394	0.01365	0.00080	95.88	12.92	12.83	87.38	5.08	5.08	312.85	355.99	320.70
P1462_098_Zrn_A_1_POS_29	87.63	2.77	2.77	206Pb/238U	1089	2.14	0.09367	0.00785	0.01369	0.00043	90.92	7.30	7.27	87.63	2.77	2.77	178.16	202.30	190.50
P1462_098_Zrn_A_1_POS_11	87.94	6.63	6.62	206Pb/238U	212	2.22	0.09231	0.01332	0.01373	0.00104	89.65	12.42	12.35	87.94	6.63	6.62	135.61	271.22	349.91
P1462_098_Zrn_A_1_POS_4	88.18	2.99	2.99	206Pb/238U	1552	2.39	0.09153	0.00669	0.01377	0.00047	88.93	6.23	6.21	88.18	2.99	2.99	109.06	182.80	173.15
P1462_098_Zrn_A_1_POS_69	88.35	2.70	2.70	206Pb/238U	563	1.95	0.09595	0.01093	0.01380	0.00042	93.03	10.16	10.11	88.35	2.70	2.70	214.67	275.97	254.41
P1462_098_Zrn_A_1_POS_100	88.45	10.31	10.30	206Pb/238U	154	3.02	0.09950	0.03107	0.01381	0.00162	96.31	28.90	28.49	88.45	10.31	10.30	295.76	591.52	679.04
P1462_098_Zrn_A_1_POS_17	88.58	6.32	6.31	206Pb/238U	226	2.59	0.09939	0.06441	0.01384	0.00099	96.22	60.38	58.64	88.58	6.32	6.31	289.99	579.97	1218.26
P1462_098_Zrn_A_1_POS_43	88.61	2.72	2.72	206Pb/238U	780	1.65	0.09560	0.00785	0.01384	0.00043	92.71	7.29	7.26	88.61	2.72	2.72	199.56	198.35	186.98
P1462_098_Zrn_A_1_POS_84	88.69	3.20	3.20	206Pb/238U	400	2.39	0.09293	0.01754	0.01385	0.00050	90.23	16.36	16.23	88.69	3.20	3.20	131.02	262.04	418.58
P1462_098_Zrn_A_1_POS_104	88.80	3.72	3.72	206Pb/238U	356	1.78	0.09666	0.01466	0.01387	0.00058	93.69	13.62	13.53	88.80	3.72	3.72	219.99	377.08	337.93
P1462_098_Zrn_A_1_POS_37	88.85	3.81	3.81	206Pb/238U	304	3.04	0.09338	0.01583	0.01388	0.00060	90.65	14.75	14.64	88.85	3.81	3.81	138.31	276.62	379.07
P1462_098_Zrn_A_1_POS_6	88.96	4.88	4.87	206Pb/238U	215	2.24	0.09447	0.02295	0.01389	0.00077	91.66	21.40	21.18	88.96	4.88	4.87	162.71	325.43	528.37
P1462_098_Zrn_A_1_POS_103	88.96	7.41	7.40	206Pb/238U	259	1.84	0.09557	0.01120	0.01390	0.00116	92.68	10.41	10.35	88.96	7.41	7.40	189.64	329.37	299.16
P1462_098_Zrn_A_1_POS_99	89.10	4.99	4.98	206Pb/238U	290	2.87	0.09310	0.01397	0.01392	0.00078	90.39	13.02	12.94	89.10	4.99	4.98	124.60	249.20	349.19
P1462_098_Zrn_A_1_POS_85	89.15	3.94	3.94	206Pb/238U	120	2.45	0.10540	0.02146	0.01393	0.00062	101.75	19.81	19.61	89.15	3.94	3.94	407.92	496.27	429.86
P1462_098_Zrn_A_1_POS_33	89.19	3.25	3.25	206Pb/238U	261	2.85	0.09283	0.01252	0.01393	0.00051	90.14	11.67	11.60	89.19	3.25	3.25	115.40	230.81	303.29
P1462_098_Zrn_A_1_POS_87	89.25	3.74	3.74	206Pb/238U	154	2.33	0.09234	0.01544	0.01394	0.00059	89.68	14.40	14.30	89.25	3.74	3.74	101.14	202.29	378.06
P1462_098_Zrn_A_1_POS_19	89.35	3.39	3.39	206Pb/238U	268	3.52	0.10101	0.01549	0.01396	0.00053	97.71	14.34	14.24	89.35	3.39	3.39	306.97	373.96	335.22
P1462_098_Zrn_A_1_POS_26	89.52	3.65	3.65	206Pb/238U	412	2.53	0.09942	0.01162	0.01398	0.00057	96.24	10.76	10.70	89.52	3.65	3.65	266.31	284.33	261.43
P1462_098_Zrn_A_1_POS_1	89.57	3.99	3.99	206Pb/238U	177	3.71	0.09414	0.01476	0.01399	0.00063	91.35	13.74	13.65	89.57	3.99	3.99	138.11	276.21	353.27
P1462_098_Zrn_A_1_POS_35	89.89	3.91	3.91	206Pb/238U	404	2.76	0.09603	0.00878	0.01404	0.00061	93.11	8.15	8.11	89.89	3.91	3.91	176.34	227.92	213.05
P1462_098_Zrn_A_1_POS_21	89.89	4.53	4.52	206Pb/238U	223	2.09	0.09576	0.01001	0.01404	0.00071	92.86	9.30	9.25	89.89	4.53	4.52	169.71	273.42	252.30
P1462_098_Zrn_A_1_POS_16	89.89	4.03	4.02	206Pb/238U	324	3.24	0.09304	0.01150	0.01404	0.00063	90.34	10.71	10.65	89.89	4.03	4.02	101.99	203.98	287.28
P1462_098_Zrn_A_1_POS_90	90.13	3.55	3.55	206Pb/238U	284	3.41	0.09238	0.00969	0.01408	0.00056	89.71	9.02	8.98	90.13	3.55	3.55	78.62	157.24	245.83
P1462_098_Zrn_A_1_POS_79	90.15	5.03	5.02	206Pb/238U	262	2.77	0.09459	0.02174	0.01408	0.00079	91.77	20.27	20.07	90.15	5.03	5.02	133.97	267.95	502.82
P1462_098_Zrn_A_1_POS_91	90.24	4.59	4.59	206Pb/238U	404	1.68	0.09127	0.01340	0.01410	0.00072	88.68	12.50	12.43	90.24	4.59	4.59	47.03	94.07	343.04
P1462_098_Zrn_A_1_POS_96	90.34	4.10	4.09	206Pb/238U	279	1.59	0.10065	0.01542	0.01411	0.00064	97.38	14.28	14.18	90.34	4.10	4.09	273.32	372.42	334.06
P1462_098_Zrn_A_1_POS_74	90.67	4.67	4.67	206Pb/238U	284	3.20	0.09697	0.01474	0.01416	0.00074	93.98	13.69	13.60	90.67	4.67	4.67	178.73	357.46	345.79
P1462_098_Zrn_A_1_POS_95	90.68	4.72	4.72	206Pb/238U	237	2.36	0.09726	0.01229	0.01417	0.00074	94.24	11.41	11.34	90.68	4.72	4.72	185.29	320.49	291.83
P1462_098_Zrn_A_1_POS_60	90.69	4.19	4.19	206Pb/238U	413	2.83	0.10114	0.01268	0.01417	0.00066	97.83	11.72	11.66	90.69	4.19	4.19	275.48	304.94	278.73
P1462_098_Zrn_A_1_POS_106	90.80	6.15	6.14	206Pb/238U	129	3.09	0.09594	0.01943	0.01419	0.00097	93.02	18.08	17.92	90.80	6.15	6.14	150.43	300.87	459.56
P1462_098_Zrn_A_1_POS_2	90.87	3.08	3.08	206Pb/238U	587	2.48	0.09555	0.00871	0.01420	0.00049	92.66	8.09	8.06	90.87	3.08	3.08	138.93	224.08	209.73
P1462_098_Zrn_A_1_POS_76	90.88	3.82	3.82	206Pb/238U	311	2.75	0.09738	0.01836	0.01420	0.00060	94.36	17.06	16.92	90.88	3.82	3.82	183.28	366.57	417.67
P1462_098_Zrn_A_1_POS_13	90.88	2.84	2.84	206Pb/238U	670	2.99	0.09478	0.00739	0.01420	0.00045	91.95	6.86	6.84	90.88	2.84	2.84	119.75	189.97	179.57
P1462_098_Zrn_A_1_POS_58	90.90	4.01	4.00	206Pb/238U	363	2.45	0.09279	0.00923	0.01420	0.00063	90.10	8.60	8.56	90.90	4.01	4.00	69.09	138.17	231.84
P1462_098_Zrn_A_1_POS_18	90.93	6.39	6.39	206Pb/238U	193	2.63	0.09979	0.02785	0.01421	0.00101	96.58	25.88	25.55	90.93	6.39	6.39	238.33	476.65	593.25
P1462_098_Zrn_A_1_POS_72	91.09	3.33	3.33	206Pb/238U	486	3.49	0.10069	0.01037	0.01423	0.00052	97.41	9.59	9.54	91.09	3.33	3.33	254.93	249.20	231.44
P1462_098_Zrn_A_1_POS_92	91.14	5.48	5.48	206Pb/238U	153	3.54	0.11002	0.02172	0.01424	0.00086	105.98	19.97	19.77	91.14	5.48	5.48	454.03	480.90	418.13
P1462_098_Zrn_A_1_POS_24	91.18	3.24	3.24	206Pb/238U	229	2.77	0.09698	0.02112	0.01424	0.00051	93.98	19.64	19.45	91.18	3.24	3.24	165.67	331.34	474.35
P1462_098_Zrn_A_1_POS_80	91.41	4.40	4.40	206Pb/238U	345	2.59	0.09949	0.01308	0.01428	0.00069	96.30	12.11	12.04	91.41	4.40	4.40	219.17	317.64	289.40
P1462_098_Zrn_A_1_POS_40	91.43	3.56	3.56	206Pb/238U	281	2.35	0.10161	0.01410	0.01428	0.00056	98.26	13.04	12.96	91.43	3.56	3.56	267.44	340.41	308.08
P1462_098_Zrn_A_1_POS_98	91.46	3.22	3.22	206Pb/238U	267	3.90	0.09624	0.00976	0.01429	0.00051	93.30	9.06	9.02	91.46	3.22	3.22	140.60	251.54	233.59

**Table 2.** U–Pb age data from the Cretaceous Colombian back–arc basin (*continued*).

Analysis name	Preferred age (Ma)	Sample RR1–15																	
		2–sigma	2 +sigma	Age type	[U] (ppm)	U/Th	207Pb/235U Ratio	2 sigma	206Pb/238U Ratio	2 sigma	207Pb/235Uc age (Ma)	2–sigma	2 +sigma	206Pb/238U age (Ma)	2–sigma	2 +sigma	207Pb/206Pb age (Ma)	2–sigma	2 +sigma
P1462_098_Zrn_A_1_POS_94	91.54	25.54	25.50	206Pb/238U	395	2.02	0.11330	0.32995	0.01430	0.00402	108.98	217.96	280.62	91.54	25.54	25.50	509.22	1018.44	3473.03
P1462_098_Zrn_A_1_POS_42	91.57	3.59	3.59	206Pb/238U	294	2.36	0.09743	0.01305	0.01431	0.00056	94.40	12.11	12.04	91.57	3.59	3.59	166.56	330.07	299.78
P1462_098_Zrn_A_1_POS_70	91.71	4.85	4.85	206Pb/238U	311	3.48	0.11161	0.03706	0.01433	0.00076	107.44	34.14	33.58	91.71	4.85	4.85	471.90	839.54	664.77
P1462_098_Zrn_A_1_POS_15	91.77	4.15	4.15	206Pb/238U	323	5.94	0.09880	0.01242	0.01434	0.00065	95.67	11.51	11.45	91.77	4.15	4.15	194.10	317.37	289.22
P1462_098_Zrn_A_1_POS_71	91.78	4.12	4.12	206Pb/238U	399	2.36	0.09738	0.01010	0.01434	0.00065	94.35	9.37	9.33	91.78	4.12	4.12	159.92	255.58	237.05
P1462_098_Zrn_A_1_POS_36	91.87	2.79	2.78	206Pb/238U	1305	1.55	0.09703	0.00563	0.01435	0.00044	94.03	5.22	5.21	91.87	2.79	2.78	149.12	141.10	135.26
P1462_098_Zrn_A_1_POS_54	91.94	4.29	4.29	206Pb/238U	249	3.42	0.10330	0.02566	0.01436	0.00068	99.82	23.75	23.48	91.94	4.29	4.29	292.43	584.85	528.45
P1462_098_Zrn_A_1_POS_0	92.01	3.72	3.73	206Pb/238U	366	2.96	0.10093	0.01186	0.01438	0.00059	97.63	10.97	10.91	92.01	3.72	3.73	237.15	288.94	265.36
P1462_098_Zrn_A_1_POS_25	92.07	5.39	5.39	206Pb/238U	183	3.50	0.10340	0.01873	0.01438	0.00085	99.91	17.31	17.17	92.07	5.39	5.39	291.40	460.38	403.07
P1462_098_Zrn_A_1_POS_53	92.15	5.50	5.50	206Pb/238U	214	2.56	0.10158	0.01903	0.01440	0.00087	98.24	17.62	17.47	92.15	5.50	5.50	248.60	477.37	416.19
P1462_098_Zrn_A_1_POS_44	92.17	2.96	2.96	206Pb/238U	944	2.75	0.09376	0.00591	0.01440	0.00047	91.00	5.50	5.48	92.17	2.96	2.96	60.60	121.21	151.29
P1462_098_Zrn_A_1_POS_41	92.51	4.86	4.86	206Pb/238U	260	2.24	0.09556	0.01582	0.01445	0.00076	92.67	14.72	14.61	92.51	4.86	4.86	96.86	193.73	378.17
P1462_098_Zrn_A_1_POS_5	92.54	4.08	4.07	206Pb/238U	353	2.46	0.09788	0.00905	0.01446	0.00064	94.82	8.39	8.36	92.54	4.08	4.07	152.57	238.14	221.98
P1462_098_Zrn_A_1_POS_64	92.55	3.61	3.61	206Pb/238U	603	2.34	0.09438	0.01052	0.01446	0.00057	91.58	9.79	9.74	92.55	3.61	3.61	66.27	132.54	251.07
P1462_098_Zrn_A_1_POS_20	92.59	4.03	4.03	206Pb/238U	677	1.94	0.10357	0.01418	0.01447	0.00063	100.06	13.09	13.00	92.59	4.03	4.03	282.02	333.97	302.78
P1462_098_Zrn_A_1_POS_50	92.59	3.02	3.02	206Pb/238U	550	2.78	0.09781	0.00976	0.01447	0.00047	94.76	9.05	9.01	92.59	3.02	3.02	149.50	246.02	228.81
P1462_098_Zrn_A_1_POS_38	92.73	3.01	3.01	206Pb/238U	478	2.94	0.10227	0.00984	0.01449	0.00047	98.87	9.08	9.04	92.73	3.01	3.01	249.50	230.21	214.97
P1462_098_Zrn_A_1_POS_81	92.83	4.42	4.42	206Pb/238U	261	3.44	0.09862	0.01012	0.01450	0.00069	95.50	9.37	9.33	92.83	4.42	4.42	162.56	246.74	229.42
P1462_098_Zrn_A_1_POS_32	92.96	4.87	4.87	206Pb/238U	263	2.90	0.09955	0.02072	0.01453	0.00077	96.36	19.23	19.05	92.96	4.87	4.87	181.17	362.35	453.27
P1462_098_Zrn_A_1_POS_12	93.15	9.36	9.35	206Pb/238U	212	2.09	0.09437	0.02612	0.01456	0.00147	91.56	24.38	24.09	93.15	9.36	9.35	50.29	100.58	627.23
P1462_098_Zrn_A_1_POS_28	93.18	6.76	6.76	206Pb/238U	294	2.49	0.10127	0.01690	0.01456	0.00106	97.95	15.64	15.52	93.18	6.76	6.76	215.71	431.41	386.90
P1462_098_Zrn_A_1_POS_61	93.23	3.70	3.70	206Pb/238U	425	2.97	0.10110	0.01194	0.01457	0.00058	97.79	11.04	10.98	93.23	3.70	3.70	210.41	290.66	266.85
P1462_098_Zrn_A_1_POS_55	93.30	4.13	4.12	206Pb/238U	513	1.96	0.10095	0.01200	0.01458	0.00065	97.65	11.10	11.04	93.30	4.13	4.12	205.29	292.57	268.46
P1462_098_Zrn_A_1_POS_78	93.40	4.31	4.31	206Pb/238U	413	2.77	0.09557	0.01176	0.01459	0.00068	92.68	10.93	10.87	93.40	4.31	4.31	74.26	148.51	286.83
P1462_098_Zrn_A_1_POS_56	93.40	4.22	4.22	206Pb/238U	218	2.07	0.09879	0.00948	0.01459	0.00066	95.66	8.78	8.74	93.40	4.22	4.22	152.30	239.92	223.53
P1462_098_Zrn_A_1_POS_67	93.88	2.57	2.57	206Pb/238U	1554	1.41	0.09940	0.00574	0.01467	0.00040	96.22	5.31	5.30	93.88	2.57	2.57	154.56	137.59	132.03
P1462_098_Zrn_A_1_POS_47	94.23	4.56	4.55	206Pb/238U	470	2.95	0.09915	0.01068	0.01472	0.00072	95.99	9.89	9.84	94.23	4.56	4.55	140.11	272.88	251.88
P1462_098_Zrn_A_1_POS_97	94.24	3.62	3.62	206Pb/238U	234	2.22	0.10006	0.01266	0.01473	0.00057	96.83	11.72	11.65	94.24	3.62	3.62	161.32	309.53	282.75
P1462_098_Zrn_A_1_POS_89	94.26	4.31	4.31	206Pb/238U	193	2.86	0.10024	0.01787	0.01473	0.00068	97.00	16.56	16.43	94.26	4.31	4.31	164.84	329.68	395.98
P1462_098_Zrn_A_1_POS_109	94.35	5.07	5.07	206Pb/238U	193	2.26	0.10120	0.01429	0.01474	0.00080	97.88	13.22	13.14	94.35	5.07	5.07	184.74	356.81	321.64
P1462_098_Zrn_A_1_POS_102	94.62	6.54	6.54	206Pb/238U	1122	1.27	0.09911	0.00929	0.01479	0.00103	95.96	8.60	8.56	94.62	6.54	6.54	129.27	236.05	220.19
P1462_098_Zrn_A_1_POS_62	94.88	3.74	3.74	206Pb/238U	194	2.69	0.10148	0.01100	0.01483	0.00059	98.15	10.17	10.12	94.88	3.74	3.74	178.34	267.42	247.17
P1462_098_Zrn_A_1_POS_65	94.97	3.14	3.14	206Pb/238U	387	2.53	0.09815	0.01151	0.01484	0.00049	95.07	10.67	10.62	94.97	3.14	3.14	97.57	195.14	269.50
P1462_098_Zrn_A_1_POS_46	95.00	3.25	3.25	206Pb/238U	573	2.46	0.10141	0.00746	0.01485	0.00051	98.08	6.89	6.86	95.00	3.25	3.25	173.61	184.16	174.33
P1462_098_Zrn_A_1_POS_82	95.07	4.07	4.07	206Pb/238U	461	2.59	0.10352	0.01666	0.01486	0.00064	100.02	15.39	15.28	95.07	4.07	4.07	219.51	394.93	352.19
P1462_098_Zrn_A_1_POS_68	95.53	10.22	10.21	206Pb/238U	257	1.88	0.09788	0.01955	0.01493	0.00161	94.82	18.16	18.00	95.53	10.22	10.21	77.11	154.22	450.04
P1462_098_Zrn_A_1_POS_73	95.68	3.67	3.67	206Pb/238U	422	2.57	0.10095	0.09411	0.01495	0.00058	97.66	88.71	84.99	95.68	3.67	3.67	146.31	292.62	1667.34
P1462_098_Zrn_A_1_POS_66	96.71	4.97	4.96	206Pb/238U	207	2.14	0.10474	0.01996	0.01512	0.00078	101.14	18.43	18.26	96.71	4.97	4.96	206.93	413.87	419.56
P1462_098_Zrn_A_1_POS_49	96.98	3.49	3.49	206Pb/238U	395	2.20	0.10172	0.00998	0.01516	0.00055	98.36	9.22	9.18	96.98	3.49	3.49	131.85	246.10	228.90
P1462_098_Zrn_A_1_POS_77	97.72	7.71	7.71	206Pb/238U	245	2.23	0.10688	0.02073	0.01527	0.00121	103.11	19.11	18.93	97.72	7.71	7.71	229.59	459.18	439.00
P1462_098_Zrn_A_1_POS_75	98.21	3.73	3.73	206Pb/238U	429	3.14	0.10083	0.01458	0.01535	0.00059	97.54	13.49	13.40	98.21	3.73	3.73	81.34	162.68	330.96
P1462_098_Zrn_A_1_POS_34	98.91	5.35	5.35	206Pb/238U	442	2.50	0.10841	0.02270	0.01546	0.00084	104.51	20.90	20.69	98.91	5.35	5.35	234.22	468.43	455.37



**Table 2.** U–Pb age data from the Cretaceous Colombian back–arc basin (*continued*).

Sample RR1–15																			
Analysis name	Preferred age (Ma)	2 –sigma	2 +sigma	Age type	[U] (ppm)	U/Th	207Pb/235U Ratio	2 sigma	206Pb/238U Ratio	2 sigma	207Pb/235Uc age (Ma)	2 –sigma	2 +sigma	206Pb/238U age (Ma)	2 –sigma	2 +sigma	207Pb/206Pb age (Ma)	2 –sigma	2 +sigma
P1462_098_Zrn_A_1_POS_39	99.37	3.83	3.83	206Pb/238U	215	2.34	0.10468	0.01499	0.01553	0.00060	101.08	13.82	13.73	99.37	3.83	3.83	141.69	283.38	323.28
P1462_098_Zrn_A_1_POS_45	100.34	3.50	3.50	206Pb/238U	428	3.43	0.11068	0.01155	0.01569	0.00055	106.59	10.59	10.53	100.34	3.50	3.50	248.43	251.39	233.34
P1462_098_Zrn_A_1_POS_30	100.82	4.79	4.79	206Pb/238U	468	2.56	0.12091	0.01808	0.01576	0.00076	115.90	16.44	16.31	100.82	4.79	4.79	437.73	357.56	321.70
P1462_098_Zrn_A_1_POS_48	159.03	7.15	7.15	206Pb/238U	259	3.28	0.17407	0.01725	0.02498	0.00114	162.95	14.97	14.86	159.03	7.15	7.15	220.26	245.03	227.88
P1462_098_Zrn_A_1_POS_10	1023.90	24.24	24.19	206Pb/238U	474	4.20	1.73584	0.08144	0.17214	0.00440	1021.92	30.45	30.00	1023.90	24.24	24.19	1017.69	91.52	88.90
P1462_098_Zrn_A_1_POS_52	1447.24	29.26	28.84	207Pb/235Uc	356	2.82	3.15915	0.11899	0.25157	0.00727	1447.24	29.26	28.84	1446.58	37.51	37.40	1448.19	67.68	66.20
Sample CON6–1322																			
Analysis name	Preferred age (Ma)	2 –sigma	2 +sigma	Age type	[U] (ppm)	U/Th	207Pb/235U Ratio	2 sigma	206Pb/238U Ratio	2 sigma	207Pb/235Uc age (Ma)	2 –sigma	2 +sigma	206Pb/238U age (Ma)	2 –sigma	2 +sigma	207Pb/206Pb age (Ma)	2 –sigma	2 +sigma
P1462_123_Zrn_A_1_MBD_75	444.79	17.00	16.98	206Pb/238U	164	1.42	0.53828	0.05326	0.07143	0.00282	437.29	35.46	34.85	444.79	17.00	16.98	398.03	228.55	213.39
P1462_123_Zrn_A_1_MBD_42	505.25	48.86	48.67	206Pb/238U	32	1.51	0.70613	0.13460	0.08153	0.00818	542.44	81.73	78.57	505.25	48.86	48.67	701.98	415.10	366.83
P1462_123_Zrn_A_1_MBD_18	515.39	20.85	20.82	206Pb/238U	98	1.71	0.67188	0.06210	0.08323	0.00350	521.86	38.07	37.37	515.39	20.85	20.82	550.28	206.32	193.78
P1462_123_Zrn_A_1_MBD_63	518.23	25.85	25.79	206Pb/238U	415	1.54	0.65987	0.04635	0.08371	0.00434	514.53	28.55	28.16	518.23	25.85	25.79	498.14	142.90	136.79
P1462_123_Zrn_A_1_MBD_0	608.01	50.58	50.39	206Pb/238U	36	1.08	0.86517	0.12975	0.09891	0.00861	632.94	71.89	69.43	608.01	50.58	50.39	723.03	354.33	318.51
P1462_123_Zrn_A_1_MBD_53	731.20	39.73	39.61	206Pb/238U	89	2.57	1.02508	0.08880	0.12011	0.00689	716.47	45.02	44.05	731.20	39.73	39.61	670.59	190.78	179.93
P1462_123_Zrn_A_1_MBD_22	771.94	33.92	33.83	206Pb/238U	54	1.26	1.12114	0.07888	0.12721	0.00592	763.52	38.12	37.41	771.94	33.92	33.83	738.95	137.92	132.13
P1462_123_Zrn_A_1_MBD_10	821.99	47.41	46.33	207Pb/235Uc	64	1.40	1.24688	0.10369	0.13181	0.00847	821.99	47.41	46.33	798.15	48.34	48.16	887.05	182.59	172.50
P1462_123_Zrn_A_1_MBD_15	890.69	30.97	30.50	207Pb/235Uc	786	4.49	1.40415	0.07277	0.14679	0.00608	890.69	30.97	30.50	882.95	34.23	34.14	909.95	95.87	93.01
P1462_123_Zrn_A_1_MBD_109	921.53	30.53	30.46	206Pb/238U	489	5.47	1.52870	0.08052	0.15367	0.00546	941.98	32.59	32.08	921.53	30.53	30.46	990.09	92.17	89.52
P1462_123_Zrn_A_1_MBD_69	942.81	35.04	34.94	206Pb/238U	111	1.66	1.58310	0.10174	0.15749	0.00628	963.59	40.39	39.61	942.81	35.04	34.94	1011.31	121.92	117.31
P1462_123_Zrn_A_1_MBD_4	951.45	42.06	41.92	206Pb/238U	83	9.36	1.63718	0.15332	0.15904	0.00755	984.63	59.91	58.19	951.45	42.06	41.92	1059.35	188.41	177.59
P1462_123_Zrn_A_1_MBD_7	989.60	28.52	28.13	207Pb/235Uc	531	3.40	1.65012	0.07392	0.16369	0.00728	989.60	28.52	28.13	977.24	40.40	40.28	1017.09	78.44	76.50
P1462_123_Zrn_A_1_MBD_66	994.44	42.58	42.44	206Pb/238U	60	3.75	1.68551	0.11518	0.16680	0.00769	1003.07	44.02	43.09	994.44	42.58	42.44	1021.97	128.62	123.49
P1462_123_Zrn_A_1_MBD_6	1003.18	35.88	35.25	207Pb/235Uc	172	5.26	1.68581	0.09406	0.17289	0.00941	1003.18	35.88	35.25	1028.02	51.84	51.63	949.30	108.30	104.66
P1462_123_Zrn_A_1_MBD_48	1004.14	44.30	44.15	206Pb/238U	69	2.78	1.75066	0.15043	0.16855	0.00802	1027.41	56.30	54.78	1004.14	44.30	44.15	1077.30	182.17	172.02
P1462_123_Zrn_A_1_MBD_12	1015.24	37.60	36.92	207Pb/235Uc	101	2.32	1.71791	0.09972	0.17145	0.00889	1015.24	37.60	36.92	1020.12	49.04	48.85	1004.74	129.57	124.37
P1462_123_Zrn_A_1_MBD_29	1043.71	52.94	51.59	207Pb/235Uc	206	10.12	1.79518	0.14384	0.17487	0.01043	1043.71	52.94	51.59	1038.87	57.37	57.11	1053.85	139.98	133.92
P1462_123_Zrn_A_1_MBD_30	1049.52	110.42	109.49	206Pb/238U	12	2.93	1.75442	0.30204	0.17681	0.02007	1028.79	114.51	108.40	1049.52	110.42	109.49	984.99	328.08	296.70
P1462_123_Zrn_A_1_MBD_72	1049.81	35.27	35.18	206Pb/238U	157	3.27	1.83530	0.11324	0.17686	0.00643	1058.18	40.96	40.15	1049.81	35.27	35.18	1075.48	113.50	109.48
P1462_123_Zrn_A_1_MBD_88	1067.63	61.74	59.92	207Pb/235Uc	72	4.03	1.86180	0.17140	0.18610	0.01156	1067.63	61.74	59.92	1100.22	62.97	62.67	1001.63	183.47	173.22
P1462_123_Zrn_A_1_MBD_17	1082.73	34.60	34.51	206Pb/238U	243	3.78	2.00770	0.10610	0.18289	0.00634	1118.11	36.14	35.51	1082.73	34.60	34.51	1187.56	98.28	95.23
P1462_123_Zrn_A_1_MBD_3	1083.35	68.26	67.90	206Pb/238U	38	2.14	1.92024	0.20792	0.18300	0.01249	1088.15	73.61	71.04	1083.35	68.26	67.90	1097.77	210.70	197.22
P1462_123_Zrn_A_1_MBD_11	1107.19	51.25	49.99	207Pb/235Uc	175	2.96	1.97551	0.14830	0.17630	0.01003	1107.19	51.25	49.99	1046.72	55.07	54.83	1227.97	149.51	142.55
P1462_123_Zrn_A_1_MBD_47	1111.40	56.01	54.51	207Pb/235Uc	133	1.86	1.98787	0.16257	0.17980	0.01281	1111.40	56.01	54.51	1065.86	70.21	69.82	1201.61	138.90	132.88
P1462_123_Zrn_A_1_MBD_45	1131.86	52.29	50.98	207Pb/235Uc	136	3.11	2.04869	0.15500	0.19293	0.01519	1131.86	52.29	50.98	1137.25	82.35	81.83	1121.53	120.56	116.02
P1462_123_Zrn_A_1_MBD_44	1152.14	60.21	59.93	206Pb/238U	80	2.12	2.13910	0.19181	0.19569	0.01114	1161.53	63.01	61.11	1152.14	60.21	59.93	1179.10	178.09	168.32
P1462_123_Zrn_A_1_MBD_2	1160.00	53.37	52.01	207Pb/235Uc	70	2.90	2.13435	0.16261	0.19822	0.01271	1160.00	53.37	52.01	1165.74	68.54	68.18	1149.28	141.01	134.83
P1462_123_Zrn_A_1_MBD_35	1160.67	50.66	49.43	207Pb/235Uc	220	3.37	2.13644	0.15456	0.18366	0.01028	1160.67	50.66	49.43	1086.92	56.09	55.85	1301.07	135.72	129.93
P1462_123_Zrn_A_1_MBD_77	1171.02	39.55	39.43	206Pb/238U	93	4.01	2.15949	0.16760	0.19920	0.00735	1168.11	54.59	53.16	1171.02	39.55	39.43	1162.70	153.97	146.62
P1462_123_Zrn_A_1_MBD_108	1175.89	34.92	34.83	206Pb/238U	171	4.09	2.25511	0.12545	0.20011	0.00649	1198.38	39.52	38.76	1175.89	34.92	34.83	1239.18	100.79	97.57
P1462_123_Zrn_A_1_MBD_23	1198.96	68.34	67.98	206Pb/238U	53	3.83	2.26710	0.22184	0.20441	0.01273	1202.12	70.14	67.80	1198.96	68.34	67.98	1207.78	175.84	166.30

**Table 2.** U–Pb age data from the Cretaceous Colombian back–arc basin (*continued*).

Sample CON6–1322																			
Analysis name	Preferred age (Ma)	2–sigma	2 +sigma	Age type	[U] (ppm)	U/Th	207Pb/235U Ratio	2 sigma	206Pb/238U Ratio	2 sigma	207Pb/235Uc age (Ma)	2–sigma	2 +sigma	206Pb/238U age (Ma)	2–sigma	2 +sigma	207Pb/206Pb age (Ma)	2–sigma	2 +sigma
P1462_123_Zrn_A_1_MBD_81	1211.86	35.92	35.29	207Pb/235Uc	250	1.17	2.29860	0.11566	0.21065	0.00755	1211.86	35.92	35.29	1232.28	40.26	40.13	1175.66	87.89	85.44
P1462_123_Zrn_A_1_MBD_21	1232.56	36.66	36.01	207Pb/235Uc	452	3.78	2.36653	0.12046	0.20970	0.00763	1232.56	36.66	36.01	1227.20	40.72	40.59	1241.93	88.09	85.63
P1462_123_Zrn_A_1_MBD_103	1254.50	54.55	53.13	207Pb/235Uc	177	2.96	2.44008	0.18236	0.20996	0.01064	1254.50	54.55	53.13	1228.60	56.80	56.55	1299.22	130.13	124.80
P1462_123_Zrn_A_1_MBD_104	1270.35	42.06	41.20	207Pb/235Uc	128	2.29	2.49419	0.14324	0.22084	0.00986	1270.35	42.06	41.20	1286.30	52.15	51.94	1243.45	94.45	91.62
P1462_123_Zrn_A_1_MBD_16	1302.58	35.26	34.66	207Pb/235Uc	116	1.94	2.60688	0.12417	0.22137	0.00695	1302.58	35.26	34.66	1289.13	36.75	36.65	1324.80	90.49	87.88
P1462_123_Zrn_A_1_MBD_74	1322.81	44.65	43.69	207Pb/235Uc	103	2.76	2.67948	0.16005	0.22665	0.00903	1322.81	44.65	43.69	1316.90	47.56	47.38	1332.41	114.97	110.78
P1462_123_Zrn_A_1_MBD_43	1326.18	44.30	43.35	207Pb/235Uc	135	2.45	2.69170	0.15932	0.22747	0.01064	1326.18	44.30	43.35	1321.20	56.01	55.77	1334.23	101.70	98.41
P1462_123_Zrn_A_1_MBD_86	1326.43	50.19	48.98	207Pb/235Uc	87	2.06	2.69260	0.18029	0.22686	0.00974	1326.43	50.19	48.98	1318.02	51.30	51.09	1340.02	118.88	114.41
P1462_123_Zrn_A_1_MBD_107	1346.06	47.55	47.38	206Pb/238U	83	1.42	2.80734	0.19917	0.23221	0.00907	1357.50	53.82	52.43	1346.06	47.55	47.38	1375.56	127.56	122.42
P1462_123_Zrn_A_1_MBD_84	1367.63	58.70	58.44	206Pb/238U	139	2.32	2.80150	0.21929	0.23634	0.01123	1355.94	59.43	57.74	1367.63	58.70	58.44	1337.56	138.90	132.83
P1462_123_Zrn_A_1_MBD_20	1381.52	70.72	68.34	207Pb/235Uc	45	2.38	2.89851	0.26685	0.24321	0.01397	1381.52	70.72	68.34	1403.38	72.64	72.24	1347.91	160.29	152.27
P1462_123_Zrn_A_1_MBD_76	1406.19	46.19	45.16	207Pb/235Uc	98	1.43	2.99439	0.17965	0.24515	0.00941	1406.19	46.19	45.16	1413.41	48.79	48.60	1395.28	110.47	106.59
P1462_123_Zrn_A_1_MBD_24	1412.57	46.56	45.52	207Pb/235Uc	56	1.99	3.01956	0.18224	0.23960	0.01275	1412.57	46.56	45.52	1384.63	66.49	66.15	1454.98	98.79	95.67
P1462_123_Zrn_A_1_MBD_105	1426.87	46.96	46.79	206Pb/238U	193	2.75	3.16479	0.19555	0.24775	0.00907	1448.61	48.24	47.12	1426.87	46.96	46.79	1480.66	110.59	106.68
P1462_123_Zrn_A_1_MBD_62	1435.03	56.95	55.39	207Pb/235Uc	53	1.18	3.10946	0.22728	0.24323	0.01098	1435.03	56.95	55.39	1403.47	57.05	56.80	1482.14	125.05	120.08
P1462_123_Zrn_A_1_MBD_82	1436.98	50.87	49.63	207Pb/235Uc	106	1.60	3.11735	0.20372	0.24924	0.01173	1436.98	50.87	49.63	1434.56	60.67	60.38	1440.56	100.66	97.42
P1462_123_Zrn_A_1_MBD_28	1455.42	51.10	49.85	207Pb/235Uc	105	1.55	3.19279	0.20839	0.25703	0.01425	1455.42	51.10	49.85	1474.60	73.31	72.90	1427.51	124.68	119.75
P1462_123_Zrn_A_1_MBD_106	1455.44	35.73	35.11	207Pb/235Uc	514	8.90	3.19288	0.14625	0.25324	0.00874	1455.44	35.73	35.11	1455.16	45.03	44.87	1455.85	82.84	80.63
P1462_123_Zrn_A_1_MBD_54	1468.88	79.14	76.17	207Pb/235Uc	77	1.88	3.24874	0.32479	0.24484	0.01936	1468.88	79.14	76.17	1411.80	100.67	99.89	1552.37	150.21	143.07
P1462_123_Zrn_A_1_MBD_26	1474.21	80.58	77.51	207Pb/235Uc	74	1.28	3.27111	0.33233	0.25235	0.02342	1474.21	80.58	77.51	1450.58	121.13	120.00	1508.39	124.65	119.70
P1462_123_Zrn_A_1_MBD_83	1491.21	66.56	64.45	207Pb/235Uc	144	2.04	3.34324	0.28009	0.24927	0.01359	1491.21	66.56	64.45	1434.69	70.34	69.96	1572.53	142.30	135.87
P1462_123_Zrn_A_1_MBD_38	1496.34	53.31	51.95	207Pb/235Uc	34	1.35	3.36524	0.22620	0.25960	0.01629	1496.34	53.31	51.95	1487.79	83.63	83.09	1508.48	130.66	125.23
P1462_123_Zrn_A_1_MBD_80	1503.95	60.54	58.78	207Pb/235Uc	197	2.05	3.39805	0.25834	0.25546	0.01501	1503.95	60.54	58.78	1466.58	77.28	76.82	1556.99	116.23	111.90
P1462_123_Zrn_A_1_MBD_14	1524.81	47.39	46.31	207Pb/235Uc	154	3.34	3.48936	0.20711	0.26302	0.01224	1524.81	47.39	46.31	1505.27	62.62	62.32	1552.04	94.82	91.93
P1462_123_Zrn_A_1_MBD_46	1541.29	59.58	59.31	206Pb/238U	25	0.49	3.19198	0.40749	0.27010	0.01171	1455.22	101.18	96.38	1541.29	59.58	59.31	1331.69	252.04	232.76
P1462_123_Zrn_A_1_MBD_64	1546.69	45.71	44.70	207Pb/235Uc	154	2.74	3.58716	0.20419	0.27317	0.01100	1546.69	45.71	44.70	1556.88	55.81	55.57	1532.80	102.94	99.54
P1462_123_Zrn_A_1_MBD_57	1555.50	62.34	60.48	207Pb/235Uc	94	1.42	3.62710	0.27977	0.26086	0.01780	1555.50	62.34	60.48	1494.24	91.34	90.70	1639.71	117.23	112.81
P1462_123_Zrn_A_1_MBD_34	1560.22	85.46	82.00	207Pb/235Uc	71	0.95	3.64869	0.38312	0.25496	0.02177	1560.22	85.46	82.00	1463.98	112.33	111.36	1693.04	180.63	170.33
P1462_123_Zrn_A_1_MBD_56	1562.16	56.90	55.34	207Pb/235Uc	118	3.80	3.65755	0.25736	0.28628	0.01346	1562.16	56.90	55.34	1622.91	67.61	67.26	1480.98	113.46	109.36
P1462_123_Zrn_A_1_MBD_61	1593.05	46.57	45.53	207Pb/235Uc	104	5.21	3.80146	0.21773	0.28248	0.01124	1593.05	46.57	45.53	1603.82	56.60	56.35	1578.84	105.48	101.91
P1462_123_Zrn_A_1_MBD_60	1630.66	58.70	57.05	207Pb/235Uc	60	1.25	3.98262	0.28393	0.28309	0.01221	1630.66	58.70	57.05	1606.93	61.48	61.19	1661.41	123.87	118.95
P1462_123_Zrn_A_1_MBD_31	1636.68	59.76	58.05	207Pb/235Uc	308	18.33	4.01224	0.29069	0.28419	0.01443	1636.68	59.76	58.05	1612.42	72.66	72.25	1667.99	119.19	114.62
P1462_123_Zrn_A_1_MBD_67	1640.67	44.13	43.19	207Pb/235Uc	100	2.43	4.03197	0.21635	0.29185	0.00907	1640.67	44.13	43.19	1650.78	45.32	45.16	1627.74	96.98	93.95
P1462_123_Zrn_A_1_MBD_13	1704.37	40.85	40.04	207Pb/235Uc	112	0.96	4.35777	0.21339	0.29343	0.01199	1704.37	40.85	40.04	1658.67	59.91	59.63	1761.02	93.92	91.05
P1462_123_Zrn_A_1_MBD_79	1725.12	44.36	43.41	207Pb/235Uc	116	1.92	4.46840	0.23629	0.31398	0.01078	1725.12	44.36	43.41	1760.27	53.01	52.79	1682.73	87.99	85.47
P1462_123_Zrn_A_1_MBD_52	1749.98	53.57	52.19	207Pb/235Uc	91	1.46	4.60393	0.29179	0.31561	0.01547	1749.98	53.57	52.19	1768.27	76.01	75.56	1728.21	94.35	91.45
P1462_123_Zrn_A_1_MBD_19	1759.55	42.10	41.24	207Pb/235Uc	66	1.22	4.65701	0.23213	0.31619	0.01314	1759.55	42.10	41.24	1771.08	64.51	64.19	1745.90	82.26	80.06
P1462_123_Zrn_A_1_MBD_95	1792.85	53.56	52.19	207Pb/235Uc	58	1.33	4.84561	0.30433	0.32930	0.01610	1792.85	53.56	52.19	1834.97	78.32	77.85	1744.20	113.91	109.72
P1462_123_Zrn_A_1_MBD_78	1798.88	44.70	43.74	207Pb/235Uc	153	1.35	4.88042	0.25606	0.32177	0.01361	1798.88	44.70	43.74	1798.35	66.56	66.21	1799.49	78.30	76.29
P1462_123_Zrn_A_1_MBD_27	1802.79	72.99	70.46	207Pb/235Uc	69	1.65	4.90308	0.41680	0.32059	0.02368	1802.79	72.99	70.46	1792.62	116.12	115.08	1814.57	124.94	119.89
P1462_123_Zrn_A_1_MBD_65	1802.95	49.05	47.90	207Pb/235Uc	75	1.26	4.90404	0.28181	0.32199	0.01093	1802.95	49.05	47.90	1799.43	53.40	53.18	1807.03	96.04	93.03
P1462_123_Zrn_A_1_MBD_68	1808.19	46.15	45.12	207Pb/235Uc	125	1.17	4.93455	0.26667	0.32080	0.01256	1808.19	46.15	45.12	1793.62	61.44	61.15	1825.02	94.02	91.14

**Table 2.** U–Pb age data from the Cretaceous Colombian back–arc basin (*continued*).

Sample CON6–1322																			
Analysis name	Preferred age (Ma)	2–sigma	2 +sigma	Age type	[U] (ppm)	U/Th	207Pb/235U Ratio	2 sigma	206Pb/238U Ratio	2 sigma	207Pb/235Uc age (Ma)	2–sigma	2 +sigma	206Pb/238U age (Ma)	2–sigma	2 +sigma	207Pb/206Pb age (Ma)	2–sigma	2 +sigma
P1462_123_Zrn_A_1_MBD_73	1809.46	46.90	45.84	207Pb/235Uc	144	4.46	4.94198	0.27131	0.33162	0.01123	1809.46	46.90	45.84	1846.24	54.46	54.23	1767.35	101.81	98.44
P1462_123_Zrn_A_1_MBD_71	1819.43	59.39	57.70	207Pb/235Uc	95	0.58	5.00064	0.34587	0.32452	0.01686	1819.43	59.39	57.70	1811.78	82.31	81.79	1828.21	117.05	112.61
P1462_123_Zrn_A_1_MBD_25	1821.61	53.44	52.07	207Pb/235Uc	183	1.42	5.01356	0.31236	0.33213	0.01595	1821.61	53.44	52.07	1848.72	77.42	76.96	1790.76	99.59	96.37
P1462_123_Zrn_A_1_MBD_70	1822.66	59.93	59.65	206Pb/238U	44	1.34	4.94893	0.35186	0.32676	0.01231	1810.64	60.96	59.19	1822.66	59.93	59.65	1796.83	127.44	122.21
P1462_123_Zrn_A_1_MBD_9	1824.12	46.80	45.74	207Pb/235Uc	106	1.46	5.02844	0.27466	0.31548	0.01433	1824.12	46.80	45.74	1767.62	70.40	70.01	1889.26	93.86	90.97
P1462_123_Zrn_A_1_MBD_33	1828.44	39.04	38.30	207Pb/235Uc	171	3.50	5.05412	0.23052	0.32397	0.01175	1828.44	39.04	38.30	1809.07	57.32	57.07	1850.58	69.72	68.12
P1462_123_Zrn_A_1_MBD_55	1841.02	68.30	66.08	207Pb/235Uc	40	1.31	5.12958	0.40546	0.34830	0.01777	1841.02	68.30	66.08	1926.46	85.24	84.68	1745.76	135.72	129.81
P1462_123_Zrn_A_1_MBD_58	1902.34	76.79	73.99	207Pb/235Uc	52	2.02	5.51117	0.48320	0.36178	0.02728	1902.34	76.79	73.99	1990.61	129.77	128.48	1807.38	152.39	144.96
P1462_123_Zrn_A_1_MBD_1	1909.76	37.58	36.89	207Pb/235Uc	100	2.92	5.55896	0.24050	0.34179	0.01389	1909.76	37.58	36.89	1895.29	66.89	66.55	1925.52	76.46	74.53
P1462_123_Zrn_A_1_MBD_5	2027.22	57.27	55.70	207Pb/235Uc	137	1.77	6.36331	0.40949	0.34957	0.02230	2027.22	57.27	55.70	1932.53	106.97	106.09	2125.06	78.14	76.11
P1462_123_Zrn_A_1_MBD_36	2057.93	71.09	68.69	207Pb/235Uc	33	2.38	6.58942	0.52216	0.37764	0.02446	2057.93	71.09	68.69	2065.27	114.97	113.96	2050.59	118.41	113.82
P1462_123_Zrn_A_1_MBD_85	2168.38	85.10	81.68	207Pb/235Uc	34	1.82	7.46154	0.69455	0.40743	0.02417	2168.38	85.10	81.68	2203.18	111.18	110.23	2135.61	153.98	146.28
P1462_123_Zrn_A_1_MBD_98	2207.64	163.85	151.61	207Pb/235Uc	5	3.85	7.79512	1.36348	0.40978	0.07750	2207.64	163.85	151.61	2213.90	359.32	349.58	2201.84	417.60	365.29
Sample CON8–1181																			
Analysis name	Preferred age (Ma)	2–sigma	2 +sigma	Age type	[U] (ppm)	U/Th	207Pb/235U Ratio	2 sigma	206Pb/238U Ratio	2 sigma	207Pb/235Uc age (Ma)	2–sigma	2 +sigma	206Pb/238U age (Ma)	2–sigma	2 +sigma	207Pb/206Pb age (Ma)	2–sigma	2 +sigma
P1462_129_Zrn_A_1_MBD_48	332.02	30.09	30.02	206Pb/238U	1076	2.08	0.46573	0.06906	0.05285	0.00491	388.23	48.41	47.28	332.02	30.09	30.02	738.54	284.91	261.27
P1462_129_Zrn_A_1_MBD_58	335.89	16.83	16.81	206Pb/238U	607	2.75	0.44939	0.04802	0.05349	0.00275	376.85	33.92	33.37	335.89	16.83	16.81	637.05	227.99	212.69
P1462_129_Zrn_A_1_MBD_21	374.05	12.31	12.29	206Pb/238U	617	0.76	0.46924	0.03327	0.05974	0.00202	390.67	23.13	22.87	374.05	12.31	12.29	490.29	152.97	145.99
P1462_129_Zrn_A_1_MBD_46	394.96	13.50	13.49	206Pb/238U	391	1.13	0.50419	0.05759	0.06318	0.00223	414.54	39.26	38.51	394.96	13.50	13.49	525.01	255.55	236.61
P1462_129_Zrn_A_1_MBD_20	417.99	17.69	17.66	206Pb/238U	622	0.98	0.53647	0.04103	0.06699	0.00293	436.09	27.30	26.94	417.99	17.69	17.66	532.88	154.18	147.07
P1462_129_Zrn_A_1_MBD_104	423.40	18.26	18.23	206Pb/238U	581	0.74	0.51942	0.04198	0.06789	0.00302	424.77	28.25	27.86	423.40	18.26	18.23	432.17	166.05	157.89
P1462_129_Zrn_A_1_MBD_83	445.23	15.17	15.15	206Pb/238U	582	0.84	0.53738	0.03936	0.07151	0.00252	436.69	26.16	25.83	445.23	15.17	15.15	391.93	156.62	149.35
P1462_129_Zrn_A_1_MBD_85	445.81	28.20	28.14	206Pb/238U	91	1.15	0.63161	0.10666	0.07160	0.00468	497.10	67.49	65.32	445.81	28.20	28.14	740.81	375.94	335.83
P1462_129_Zrn_A_1_MBD_3	450.53	28.66	28.60	206Pb/238U	92	1.13	0.56320	0.12843	0.07239	0.00476	453.61	85.19	81.76	450.53	28.66	28.60	469.22	540.39	462.30
P1462_129_Zrn_A_1_MBD_59	489.35	18.38	18.35	206Pb/238U	327	1.10	0.64064	0.05659	0.07887	0.00307	502.70	35.33	34.72	489.35	18.38	18.35	563.92	190.28	179.55
P1462_129_Zrn_A_1_MBD_88	490.36	28.16	28.10	206Pb/238U	659	1.55	0.65217	0.06239	0.07903	0.00471	509.81	38.71	37.99	490.36	28.16	28.10	598.03	206.46	193.86
P1462_129_Zrn_A_1_MBD_32	494.90	22.90	22.86	206Pb/238U	151	1.68	0.62246	0.05560	0.07979	0.00383	491.39	35.10	34.50	494.90	22.90	22.86	475.06	191.12	180.35
P1462_129_Zrn_A_1_MBD_74	505.45	20.75	20.72	206Pb/238U	494	1.38	0.66050	0.04651	0.08156	0.00348	514.92	28.64	28.24	505.45	20.75	20.72	557.16	150.58	143.78
P1462_129_Zrn_A_1_MBD_107	556.66	24.92	24.87	206Pb/238U	297	1.10	0.79307	0.06510	0.09019	0.00421	592.91	37.20	36.53	556.66	24.92	24.87	734.17	173.51	164.45
P1462_129_Zrn_A_1_MBD_60	571.10	19.00	18.97	206Pb/238U	323	0.55	0.76575	0.06528	0.09263	0.00322	577.32	37.89	37.20	571.10	19.00	18.97	601.91	182.55	172.63
P1462_129_Zrn_A_1_MBD_54	589.89	18.91	18.88	206Pb/238U	631	5.60	0.79206	0.05481	0.09582	0.00321	592.34	31.30	30.82	589.89	18.91	18.88	601.74	141.69	135.64
P1462_129_Zrn_A_1_MBD_93	590.65	25.20	25.15	206Pb/238U	224	1.14	0.78249	0.06753	0.09595	0.00428	586.90	38.84	38.11	590.65	25.20	25.15	572.44	192.77	181.76
P1462_129_Zrn_A_1_MBD_43	599.72	37.48	37.38	206Pb/238U	91	1.83	0.80929	0.13308	0.09750	0.00637	602.05	76.10	73.35	599.72	37.48	37.38	610.85	384.24	342.73
P1462_129_Zrn_A_1_MBD_76	602.82	38.41	38.30	206Pb/238U	271	2.84	0.67212	0.10475	0.09802	0.00653	522.00	64.62	62.63	602.82	38.41	38.30	182.36	364.72	340.36
P1462_129_Zrn_A_1_MBD_108	613.35	30.48	30.41	206Pb/238U	96	0.37	0.87717	0.09578	0.09982	0.00519	639.45	52.48	51.16	613.35	30.48	30.41	732.82	236.86	220.29
P1462_129_Zrn_A_1_MBD_35	616.20	22.42	22.39	206Pb/238U	266	1.58	0.80601	0.05678	0.10031	0.00382	600.21	32.18	31.68	616.20	22.42	22.39	540.26	145.38	139.04
P1462_129_Zrn_A_1_MBD_72	691.19	24.49	24.45	206Pb/238U	175	1.19	0.94967	0.08415	0.11318	0.00423	677.93	44.31	43.36	691.19	24.49	24.45	634.16	189.24	178.58
P1462_129_Zrn_A_1_MBD_17	726.20	30.93	30.85	206Pb/238U	389	2.43	1.15178	0.09109	0.11924	0.00536	778.08	43.45	42.54	726.20	30.93	30.85	929.97	146.59	140.00
P1462_129_Zrn_A_1_MBD_22	734.18	61.17	59.38	207Pb/235Uc	299	4.57	1.06073	0.12229	0.11660	0.01161	734.18	61.17	59.38	710.98	67.19	66.84	805.67	166.89	158.46
P1462_129_Zrn_A_1_MBD_71	779.75	39.75	39.63	206Pb/238U	502	2.26	1.39623	0.12589	0.12858	0.00695	887.34	54.06	52.66	779.75	39.75	39.63	1166.01	182.35	172.13

**Table 2.** U–Pb age data from the Cretaceous Colombian back–arc basin (*continued*).

Sample CON8–1181																			
Analysis name	Preferred age (Ma)	2–sigma	2 +sigma	Age type	[U] (ppm)	U/Th	207Pb/235U Ratio	2 sigma	206Pb/238U Ratio	2 sigma	207Pb/235Uc age (Ma)	2–sigma	2 +sigma	206Pb/238U age (Ma)	2–sigma	2 +sigma	207Pb/206Pb age (Ma)	2–sigma	2 +sigma
P1462_129_Zrn_A_1_MBD_16	779.91	25.20	25.15	206Pb/238U	445	3.93	1.22684	0.08287	0.12861	0.00441	812.90	38.14	37.44	779.91	25.20	25.15	904.33	137.24	131.46
P1462_129_Zrn_A_1_MBD_0	786.27	44.11	43.96	206Pb/238U	259	2.77	1.32583	0.13039	0.12972	0.00772	857.06	57.74	56.14	786.27	44.11	43.96	1044.93	197.39	185.54
P1462_129_Zrn_A_1_MBD_40	812.16	28.86	28.79	206Pb/238U	753	15.19	1.29672	0.08444	0.13427	0.00507	844.27	37.68	36.99	812.16	28.86	28.79	929.67	120.29	115.82
P1462_129_Zrn_A_1_MBD_94	836.71	63.02	62.72	206Pb/238U	562	2.46	1.41179	0.16200	0.13860	0.01110	893.91	69.38	67.08	836.71	63.02	62.72	1038.16	218.05	203.69
P1462_129_Zrn_A_1_MBD_82	869.57	31.40	31.33	206Pb/238U	227	2.38	1.43923	0.12353	0.14441	0.00557	905.40	52.08	50.78	869.57	31.40	31.33	993.86	167.58	158.99
P1462_129_Zrn_A_1_MBD_73	884.78	27.76	27.70	206Pb/238U	245	1.46	1.33847	0.08863	0.14712	0.00493	862.57	38.85	38.12	884.78	27.76	27.70	805.91	135.29	129.69
P1462_129_Zrn_A_1_MBD_70	889.18	34.53	34.44	206Pb/238U	511	3.52	1.48208	0.11234	0.14790	0.00614	923.08	46.48	45.44	889.18	34.53	34.44	1004.97	146.59	139.97
P1462_129_Zrn_A_1_MBD_29	890.47	29.65	29.58	206Pb/238U	389	2.74	1.38504	0.11451	0.14813	0.00527	882.59	49.35	48.18	890.47	29.65	29.58	862.89	166.85	158.39
P1462_129_Zrn_A_1_MBD_65	893.04	42.70	42.56	206Pb/238U	613	2.62	1.44275	0.10546	0.14859	0.00759	906.86	44.32	43.37	893.04	42.70	42.56	940.68	142.43	136.20
P1462_129_Zrn_A_1_MBD_31	896.16	31.07	30.99	206Pb/238U	521	5.84	1.50029	0.10242	0.14914	0.00553	930.50	42.02	41.17	896.16	31.07	30.99	1012.78	128.65	123.53
P1462_129_Zrn_A_1_MBD_24	933.11	38.16	37.45	207Pb/235Uc	613	4.52	1.50671	0.09332	0.14506	0.00846	933.11	38.16	37.45	873.22	47.74	47.56	1077.37	154.95	147.55
P1462_129_Zrn_A_1_MBD_69	945.52	41.44	41.31	206Pb/238U	98	2.31	1.49550	0.12874	0.15798	0.00743	928.55	53.07	51.72	945.52	41.44	41.31	888.49	176.26	166.84
P1462_129_Zrn_A_1_MBD_102	967.44	41.35	41.22	206Pb/238U	323	3.01	1.57438	0.12895	0.16192	0.00744	960.15	51.51	50.23	967.44	41.35	41.22	943.50	155.41	148.02
P1462_129_Zrn_A_1_MBD_80	969.14	34.90	34.80	206Pb/238U	166	1.72	1.50429	0.15715	0.16223	0.00628	932.13	64.74	62.74	969.14	34.90	34.80	845.59	219.17	204.83
P1462_129_Zrn_A_1_MBD_19	986.73	153.51	151.71	206Pb/238U	114	1.60	2.20980	0.60002	0.16540	0.02759	1184.15	199.27	181.46	986.73	153.51	151.71	1565.22	473.66	409.16
P1462_129_Zrn_A_1_MBD_97	995.54	36.50	36.40	206Pb/238U	552	4.79	1.57195	0.10593	0.16700	0.00660	959.20	42.26	41.40	995.54	36.50	36.40	876.76	135.48	129.85
P1462_129_Zrn_A_1_MBD_49	1005.95	43.05	42.91	206Pb/238U	162	1.39	1.73615	0.21139	0.16888	0.00779	1022.04	80.00	76.97	1005.95	43.05	42.91	1056.64	253.40	234.20
P1462_129_Zrn_A_1_MBD_37	1094.46	36.31	36.21	206Pb/238U	281	2.59	2.01966	0.14860	0.18504	0.00667	1122.15	50.59	49.36	1094.46	36.31	36.21	1176.15	138.75	132.75
P1462_129_Zrn_A_1_MBD_99	1104.25	75.45	72.75	207Pb/235Uc	63	1.99	1.96690	0.21642	0.18985	0.01563	1104.25	75.45	72.75	1120.58	84.98	84.42	1072.21	187.24	176.54
P1462_129_Zrn_A_1_MBD_1	1129.77	43.07	42.92	206Pb/238U	414	1.34	2.28458	0.17977	0.19155	0.00795	1207.53	56.35	54.83	1129.77	43.07	42.92	1349.41	139.94	133.78
P1462_129_Zrn_A_1_MBD_106	1176.05	63.05	61.15	207Pb/235Uc	223	2.60	2.18429	0.19470	0.20384	0.01296	1176.05	63.05	61.15	1195.94	69.58	69.21	1139.62	184.32	173.90
P1462_129_Zrn_A_1_MBD_55	1205.47	37.27	37.16	206Pb/238U	357	1.78	2.37535	0.14489	0.20563	0.00696	1235.21	44.06	43.12	1205.47	37.27	37.16	1287.48	110.90	107.01
P1462_129_Zrn_A_1_MBD_98	1267.14	54.04	52.64	207Pb/235Uc	670	3.19	2.48317	0.18294	0.21529	0.01080	1267.14	54.04	52.64	1256.94	57.39	57.14	1284.50	150.61	143.53
P1462_129_Zrn_A_1_MBD_61	1269.35	58.45	56.82	207Pb/235Uc	438	3.04	2.49077	0.19809	0.20342	0.01095	1269.35	58.45	56.82	1193.65	58.77	58.51	1399.99	132.34	126.81
P1462_129_Zrn_A_1_MBD_26	1291.54	39.75	39.62	206Pb/238U	273	1.27	2.63612	0.15602	0.22183	0.00752	1310.78	44.04	43.11	1291.54	39.75	39.62	1342.39	105.76	102.21
P1462_129_Zrn_A_1_MBD_87	1308.81	67.33	66.98	206Pb/238U	164	1.41	2.84010	0.26809	0.22511	0.01276	1366.20	72.15	69.68	1308.81	67.33	66.98	1457.12	170.91	161.77
P1462_129_Zrn_A_1_MBD_27	1353.67	44.69	43.72	207Pb/235Uc	635	3.44	2.79301	0.16510	0.22612	0.00951	1353.67	44.69	43.72	1314.12	50.10	49.90	1416.70	93.91	91.09
P1462_129_Zrn_A_1_MBD_105	1359.14	61.98	61.68	206Pb/238U	352	1.86	3.43531	0.35959	0.23471	0.01184	1512.51	84.04	80.70	1359.14	61.98	61.68	1734.38	189.74	178.39
P1462_129_Zrn_A_1_MBD_33	1362.84	45.22	44.24	207Pb/235Uc	734	2.99	2.82743	0.16857	0.21934	0.00826	1362.84	45.22	44.24	1278.39	43.76	43.62	1497.86	100.88	97.62
P1462_129_Zrn_A_1_MBD_64	1375.32	51.49	51.28	206Pb/238U	218	1.03	2.97885	0.24215	0.23781	0.00987	1402.24	62.75	60.87	1375.32	51.49	51.28	1443.40	144.29	137.73
P1462_129_Zrn_A_1_MBD_62	1382.57	61.20	59.41	207Pb/235Uc	218	1.02	2.90252	0.23169	0.22940	0.01151	1382.57	61.20	59.41	1331.34	60.50	60.21	1462.57	134.62	128.88
P1462_129_Zrn_A_1_MBD_13	1384.95	57.66	56.06	207Pb/235Uc	118	2.07	2.91166	0.21899	0.23408	0.01179	1384.95	57.66	56.06	1355.83	61.73	61.44	1430.09	124.92	119.97
P1462_129_Zrn_A_1_MBD_30	1401.21	55.31	55.07	206Pb/238U	130	1.05	3.10884	0.24517	0.24280	0.01064	1434.88	61.51	59.70	1401.21	55.31	55.07	1485.15	137.71	131.71
P1462_129_Zrn_A_1_MBD_57	1402.06	49.28	49.10	206Pb/238U	175	1.89	2.92513	0.20192	0.24296	0.00948	1388.43	52.92	51.57	1402.06	49.28	49.10	1367.56	121.10	116.46
P1462_129_Zrn_A_1_MBD_25	1444.75	42.18	41.33	207Pb/235Uc	249	3.39	3.14897	0.17059	0.24828	0.00845	1444.75	42.18	41.33	1429.62	43.72	43.58	1467.08	96.17	93.20
P1462_129_Zrn_A_1_MBD_50	1457.27	56.55	55.02	207Pb/235Uc	283	6.62	3.20046	0.23073	0.23964	0.01250	1457.27	56.55	55.02	1384.82	65.19	64.86	1564.55	122.99	118.16
P1462_129_Zrn_A_1_MBD_68	1482.18	46.22	46.06	206Pb/238U	425	2.33	3.65909	0.24642	0.25850	0.00901	1562.49	54.43	53.01	1482.18	46.22	46.06	1672.79	115.19	110.92
P1462_129_Zrn_A_1_MBD_36	1486.67	49.41	49.22	206Pb/238U	95	0.35	3.51515	0.23388	0.25938	0.00963	1530.63	53.29	51.93	1486.67	49.41	49.22	1591.93	123.43	118.56
P1462_129_Zrn_A_1_MBD_90	1491.21	54.79	54.56	206Pb/238U	216	1.35	3.27650	0.23796	0.26027	0.01069	1475.49	57.30	55.73	1491.21	54.79	54.56	1452.95	134.16	128.46
P1462_129_Zrn_A_1_MBD_56	1508.51	48.53	47.40	207Pb/235Uc	394	2.89	3.41786	0.20864	0.26007	0.01041	1508.51	48.53	47.40	1490.21	53.35	53.13	1534.30	98.97	95.82
P1462_129_Zrn_A_1_MBD_109	1533.80	59.70	58.00	207Pb/235Uc	180	1.43	3.52930	0.26243	0.28512	0.01287	1533.80	59.70	58.00	1617.12	64.73	64.41	1420.74	134.06	128.38
P1462_129_Zrn_A_1_MBD_44	1554.11	53.93	52.54	207Pb/235Uc	230	1.28	3.62079	0.24221	0.25580	0.01004	1554.11	53.93	52.54	1468.31	51.64	51.43	1672.77	123.01	118.15

**Table 2.** U–Pb age data from the Cretaceous Colombian back–arc basin (*continued*).

Sample CON8–1181																			
Analysis name	Preferred age (Ma)	2 –sigma	2 +sigma	Age type	[U] (ppm)	U/Th	207Pb/235U Ratio	2 sigma	206Pb/238U Ratio	2 sigma	207Pb/235Uc age (Ma)	2 –sigma	2 +sigma	206Pb/238U age (Ma)	2 –sigma	2 +sigma	207Pb/206Pb age (Ma)	2 –sigma	2 +sigma
P1462_129_Zrn_A_1_MBD_92	1578.34	68.30	66.08	207Pb/235Uc	262	1.16	3.73239	0.31303	0.26449	0.01605	1578.34	68.30	66.08	1512.75	82.06	81.54	1667.15	149.10	142.02
P1462_129_Zrn_A_1_MBD_78	1585.64	74.04	71.43	207Pb/235Uc	824	1.56	3.76654	0.34130	0.24999	0.01673	1585.64	74.04	71.43	1438.44	86.57	85.99	1787.33	158.84	150.79
P1462_129_Zrn_A_1_MBD_4	1598.07	72.49	72.08	206Pb/238U	34	1.12	3.68359	0.40906	0.28133	0.01437	1567.82	90.68	86.80	1598.07	72.49	72.08	1527.32	206.16	192.96
P1462_129_Zrn_A_1_MBD_10	1606.72	42.81	41.93	207Pb/235Uc	331	1.72	3.86652	0.20304	0.27271	0.00992	1606.72	42.81	41.93	1554.55	50.35	50.15	1675.81	83.61	81.34
P1462_129_Zrn_A_1_MBD_77	1718.52	68.54	68.18	206Pb/238U	99	0.84	4.35615	0.36036	0.30550	0.01384	1704.06	69.49	67.19	1718.52	68.54	68.18	1686.33	146.72	139.86
P1462_129_Zrn_A_1_MBD_34	1734.88	49.06	47.90	207Pb/235Uc	421	2.35	4.52119	0.26358	0.30411	0.01086	1734.88	49.06	47.90	1711.67	53.78	53.56	1762.98	98.25	95.12
P1462_129_Zrn_A_1_MBD_75	1774.02	70.21	69.83	206Pb/238U	336	1.06	5.36267	0.47351	0.31679	0.01430	1878.91	77.01	74.19	1774.02	70.21	69.83	1996.95	149.46	142.25
P1462_129_Zrn_A_1_MBD_9	1791.75	39.82	39.05	207Pb/235Uc	418	1.92	4.83924	0.22675	0.30982	0.00936	1791.75	39.82	39.05	1739.82	46.15	45.98	1852.74	83.27	81.00
P1462_129_Zrn_A_1_MBD_100	1808.69	65.95	63.87	207Pb/235Uc	242	1.75	4.93749	0.37944	0.34009	0.01844	1808.69	65.95	63.87	1887.10	89.00	88.39	1719.50	143.22	136.66
Sample COS14–1550																			
Analysis name	Preferred age (Ma)	2 –sigma	2 +sigma	Age type	[U] (ppm)	U/Th	207Pb/235U Ratio	2 sigma	206Pb/238U Ratio	2 sigma	207Pb/235Uc age (Ma)	2 –sigma	2 +sigma	206Pb/238U age (Ma)	2 –sigma	2 +sigma	207Pb/206Pb age (Ma)	2 –sigma	2 +sigma
P1462_160_Zrn_A_1_MBD_16	401.46	11.90	11.89	206Pb/238U	808	3.13	0.47584	0.03185	0.06426	0.00196	395.21	22.03	21.80	401.46	11.90	11.89	358.83	149.03	142.45
P1462_160_Zrn_A_1_MBD_85	404.83	17.41	17.38	206Pb/238U	353	3.71	0.47516	0.05558	0.06481	0.00287	394.75	38.62	37.90	404.83	17.41	17.38	336.09	269.00	248.32
P1462_160_Zrn_A_1_MBD_62	408.30	15.53	15.51	206Pb/238U	405	2.28	0.50024	0.02882	0.06539	0.00257	411.86	19.60	19.41	408.30	15.53	15.51	431.86	124.61	119.95
P1462_160_Zrn_A_1_MBD_6	418.92	17.47	17.45	206Pb/238U	324	1.75	0.52976	0.03926	0.06714	0.00289	431.65	26.23	25.89	418.92	17.47	17.45	500.19	163.44	155.49
P1462_160_Zrn_A_1_MBD_42	427.90	17.32	17.29	206Pb/238U	300	1.34	0.52863	0.04844	0.06863	0.00287	430.90	32.44	31.93	427.90	17.32	17.29	446.96	204.98	192.67
P1462_160_Zrn_A_1_MBD_72	442.39	14.70	14.69	206Pb/238U	221	1.29	0.53305	0.05626	0.07104	0.00244	433.83	37.61	36.93	442.39	14.70	14.69	388.62	244.36	227.12
P1462_160_Zrn_A_1_MBD_49	477.79	16.28	16.26	206Pb/238U	219	1.70	0.58401	0.05648	0.07693	0.00272	467.03	36.53	35.89	477.79	16.28	16.26	414.51	222.21	207.84
P1462_160_Zrn_A_1_MBD_87	499.13	27.55	27.50	206Pb/238U	115	1.35	0.55198	0.08405	0.08050	0.00461	446.29	55.75	54.26	499.13	27.55	27.50	182.32	364.63	350.15
P1462_160_Zrn_A_1_MBD_56	526.42	30.19	30.12	206Pb/238U	133	1.94	0.65705	0.08050	0.08509	0.00508	512.81	49.93	48.74	526.42	30.19	30.12	452.56	294.06	269.35
P1462_160_Zrn_A_1_MBD_1	558.57	22.40	22.36	206Pb/238U	196	1.87	0.76639	0.06320	0.09051	0.00379	577.69	36.66	36.01	558.57	22.40	22.36	653.64	173.04	164.08
P1462_160_Zrn_A_1_MBD_100	567.54	21.66	21.63	206Pb/238U	470	2.03	0.75002	0.04556	0.09203	0.00367	568.24	26.61	26.26	567.54	21.66	21.63	571.04	129.32	124.27
P1462_160_Zrn_A_1_MBD_84	588.45	25.32	25.27	206Pb/238U	153	1.93	0.83238	0.09048	0.09558	0.00430	614.93	50.77	49.53	588.45	25.32	25.27	713.70	240.56	223.51
P1462_160_Zrn_A_1_MBD_76	748.22	21.67	21.63	206Pb/238U	487	1.06	1.10592	0.05756	0.12307	0.00377	756.21	27.94	27.56	748.22	21.67	21.63	779.92	103.43	100.13
P1462_160_Zrn_A_1_MBD_63	843.74	97.06	92.63	207Pb/235Uc	142	1.76	1.29552	0.21427	0.14313	0.02181	843.74	97.06	92.63	862.32	123.57	122.39	795.17	166.41	158.03
P1462_160_Zrn_A_1_MBD_41	858.94	24.28	24.23	206Pb/238U	556	6.46	1.36233	0.07089	0.14253	0.00430	872.87	30.70	30.24	858.94	24.28	24.23	908.39	103.03	99.73
P1462_160_Zrn_A_1_MBD_26	874.29	37.78	37.67	206Pb/238U	129	1.85	1.38853	0.11487	0.14525	0.00670	884.07	49.43	48.25	874.29	37.78	37.67	908.64	164.44	156.20
P1462_160_Zrn_A_1_MBD_74	893.78	24.86	24.81	206Pb/238U	515	2.27	1.44663	0.06466	0.14872	0.00443	908.48	27.01	26.66	893.78	24.86	24.81	944.36	88.99	86.52
P1462_160_Zrn_A_1_MBD_60	893.81	36.03	35.40	207Pb/235Uc	177	1.32	1.41154	0.08481	0.14873	0.00637	893.81	36.03	35.40	893.86	35.81	35.71	893.68	112.19	108.29
P1462_160_Zrn_A_1_MBD_93	899.58	42.34	42.20	206Pb/238U	168	1.85	1.40181	0.11434	0.14975	0.00754	889.70	48.92	47.77	899.58	42.34	42.20	865.24	148.34	141.62
P1462_160_Zrn_A_1_MBD_27	902.26	30.36	30.29	206Pb/238U	157	3.13	1.46841	0.12167	0.15023	0.00541	917.47	50.68	49.44	902.26	30.36	30.29	954.23	168.50	159.84
P1462_160_Zrn_A_1_MBD_61	902.51	48.36	47.24	207Pb/235Uc	246	3.58	1.43230	0.11449	0.13924	0.00900	902.51	48.36	47.24	840.35	51.01	50.80	1057.93	168.07	159.41
P1462_160_Zrn_A_1_MBD_9	902.71	24.85	24.80	206Pb/238U	718	5.44	1.45320	0.06912	0.15031	0.00443	911.20	28.81	28.41	902.71	24.85	24.80	931.82	92.29	89.63
P1462_160_Zrn_A_1_MBD_98	903.74	32.37	32.29	206Pb/238U	344	28.04	1.49839	0.10423	0.15049	0.00577	929.73	42.81	41.92	903.74	32.37	32.29	991.89	138.51	132.59
P1462_160_Zrn_A_1_MBD_68	917.25	82.01	81.49	206Pb/238U	184	4.56	1.62622	0.24772	0.15291	0.01462	980.40	98.11	93.59	917.25	82.01	81.49	1124.65	281.48	257.90
P1462_160_Zrn_A_1_MBD_35	929.08	37.51	37.40	206Pb/238U	175	4.15	1.58923	0.11823	0.15503	0.00671	965.99	46.90	45.84	929.08	37.51	37.40	1050.96	152.53	145.36
P1462_160_Zrn_A_1_MBD_109	932.74	39.48	39.36	206Pb/238U	155	2.64	1.51341	0.10982	0.15568	0.00707	935.82	44.86	43.89	932.74	39.48	39.36	943.08	143.38	137.06
P1462_160_Zrn_A_1_MBD_12	937.80	33.58	33.49	206Pb/238U	197	1.75	1.52865	0.08903	0.15659	0.00602	941.95	36.07	35.44	937.80	33.58	33.49	951.69	108.46	104.81
P1462_160_Zrn_A_1_MBD_43	946.20	37.97	37.86	206Pb/238U	144	2.67	1.62395	0.14823	0.15810	0.00681	979.52	58.19	56.57	946.20	37.97	37.86	1054.99	189.28	178.36
P1462_160_Zrn_A_1_MBD_33	947.69	35.47	35.38	206Pb/238U	287	2.83	1.63495	0.11693	0.15837	0.00637	983.77	45.57	44.57	947.69	35.47	35.38	1065.16	133.44	127.92



**Table 2.** U–Pb age data from the Cretaceous Colombian back–arc basin (*continued*).

Sample COS14–1550																			
Analysis name	Preferred age (Ma)	2–sigma	2 +sigma	Age type	[U] (ppm)	U/Th	207Pb/235U Ratio	2 sigma	206Pb/238U Ratio	2 sigma	207Pb/235Uc age (Ma)	2–sigma	2 +sigma	206Pb/238U age (Ma)	2–sigma	2 +sigma	207Pb/206Pb age (Ma)	2–sigma	2 +sigma
P1462_160_Zrn_A_1_MBD_107	949.58	32.26	32.17	206Pb/238U	132	2.10	1.50872	0.12996	0.15871	0.00579	933.92	53.29	51.93	949.58	32.26	32.17	897.15	180.22	170.38
P1462_160_Zrn_A_1_MBD_89	949.76	32.08	32.00	206Pb/238U	365	2.62	1.56349	0.10802	0.15874	0.00576	955.85	43.24	42.34	949.76	32.08	32.00	969.90	136.36	130.63
P1462_160_Zrn_A_1_MBD_101	949.79	39.83	39.71	206Pb/238U	95	1.86	1.59908	0.20499	0.15874	0.00715	969.85	81.71	78.55	949.79	39.83	39.71	1015.60	264.45	243.65
P1462_160_Zrn_A_1_MBD_58	952.04	28.20	28.14	206Pb/238U	521	7.35	1.58526	0.08126	0.15915	0.00506	964.44	32.17	31.67	952.04	28.20	28.14	992.79	101.04	97.85
P1462_160_Zrn_A_1_MBD_92	952.20	51.80	51.60	206Pb/238U	137	2.94	1.63815	0.14732	0.15918	0.00930	985.00	57.51	55.92	952.20	51.80	51.60	1058.83	171.53	162.51
P1462_160_Zrn_A_1_MBD_79	953.84	42.75	42.61	206Pb/238U	96	2.33	1.54344	0.11144	0.15947	0.00768	947.88	44.98	44.01	953.84	42.75	42.61	934.05	134.09	128.55
P1462_160_Zrn_A_1_MBD_83	955.28	34.78	34.20	207Pb/235Uc	234	2.19	1.56204	0.08702	0.15651	0.00657	955.28	34.78	34.20	937.35	36.70	36.59	996.79	107.21	103.63
P1462_160_Zrn_A_1_MBD_25	955.56	49.14	48.95	206Pb/238U	44	2.10	1.55046	0.19810	0.15978	0.00882	950.67	80.44	77.38	955.56	49.14	48.95	939.39	273.10	251.06
P1462_160_Zrn_A_1_MBD_59	956.95	42.45	42.31	206Pb/238U	120	1.91	1.58192	0.11344	0.16003	0.00763	963.13	45.11	44.13	956.95	42.45	42.31	977.26	133.77	128.24
P1462_160_Zrn_A_1_MBD_13	958.80	49.46	49.27	206Pb/238U	101	2.55	1.60863	0.18649	0.16036	0.00889	973.58	73.92	71.32	958.80	49.46	49.27	1007.08	234.29	217.82
P1462_160_Zrn_A_1_MBD_88	960.60	35.93	35.83	206Pb/238U	159	3.12	1.61472	0.12558	0.16069	0.00646	975.94	49.36	48.19	960.60	35.93	35.83	1010.63	154.67	147.32
P1462_160_Zrn_A_1_MBD_94	961.65	36.85	36.75	206Pb/238U	92	2.46	1.59972	0.11060	0.16088	0.00663	970.10	43.66	42.74	961.65	36.85	36.75	989.29	138.59	132.66
P1462_160_Zrn_A_1_MBD_53	961.96	28.43	28.37	206Pb/238U	838	3.08	1.62723	0.07617	0.16093	0.00512	980.79	29.66	29.23	961.96	28.43	28.37	1023.18	83.92	81.70
P1462_160_Zrn_A_1_MBD_75	962.34	43.80	43.65	206Pb/238U	37	2.44	1.57002	0.14777	0.16100	0.00788	958.43	59.24	57.56	962.34	43.80	43.65	949.48	202.08	189.75
P1462_160_Zrn_A_1_MBD_17	963.40	51.06	50.85	206Pb/238U	75	2.41	1.56126	0.15765	0.16119	0.00918	954.97	63.48	61.56	963.40	51.06	50.85	935.59	190.14	179.19
P1462_160_Zrn_A_1_MBD_91	965.11	38.87	38.75	206Pb/238U	306	2.91	1.57884	0.10636	0.16150	0.00699	961.91	42.32	41.45	965.11	38.87	38.75	954.61	135.88	130.19
P1462_160_Zrn_A_1_MBD_14	965.46	46.64	46.47	206Pb/238U	54	1.22	1.54238	0.18531	0.16156	0.00839	947.45	75.39	72.69	965.46	46.64	46.47	905.86	250.90	232.21
P1462_160_Zrn_A_1_MBD_106	965.59	36.46	36.36	206Pb/238U	211	2.70	1.62241	0.09755	0.16159	0.00656	978.93	38.12	37.42	965.59	36.46	36.36	1008.95	120.17	115.69
P1462_160_Zrn_A_1_MBD_73	969.62	35.96	35.86	206Pb/238U	158	2.21	1.55579	0.09631	0.16231	0.00647	952.80	38.63	37.91	969.62	35.96	35.86	914.15	124.41	119.63
P1462_160_Zrn_A_1_MBD_18	972.55	32.82	32.74	206Pb/238U	196	2.61	1.58260	0.09549	0.16284	0.00591	963.39	37.90	37.20	972.55	32.82	32.74	942.54	122.93	118.25
P1462_160_Zrn_A_1_MBD_104	976.56	49.28	49.09	206Pb/238U	42	2.16	1.67111	0.16891	0.16356	0.00888	997.61	65.25	63.22	976.56	49.28	49.09	1044.18	202.84	190.36
P1462_160_Zrn_A_1_MBD_71	981.75	32.44	32.36	206Pb/238U	277	2.38	1.60696	0.09861	0.16450	0.00585	972.93	38.77	38.05	981.75	32.44	32.36	953.06	124.83	120.01
P1462_160_Zrn_A_1_MBD_20	982.50	33.19	33.10	206Pb/238U	278	2.93	1.70188	0.12216	0.16464	0.00599	1009.24	46.44	45.40	982.50	33.19	33.10	1067.74	143.70	137.31
P1462_160_Zrn_A_1_MBD_57	983.95	30.75	30.29	207Pb/235Uc	695	1.54	1.63542	0.07920	0.15955	0.00537	983.95	30.75	30.29	954.29	29.87	29.80	1050.73	92.94	90.23
P1462_160_Zrn_A_1_MBD_7	985.80	45.49	45.33	206Pb/238U	59	2.00	1.69839	0.18710	0.16523	0.00821	1007.93	71.65	69.21	985.80	45.49	45.33	1056.35	217.79	203.46
P1462_160_Zrn_A_1_MBD_102	986.55	234.01	229.83	206Pb/238U	1	0.01	1.77866	1.57149	0.16537	0.04192	1037.69	674.97	505.72	986.55	234.01	229.83	1147.05	2294.10	1379.62
P1462_160_Zrn_A_1_MBD_39	986.94	43.95	43.80	206Pb/238U	132	2.52	1.60166	0.12797	0.16544	0.00793	970.86	50.57	49.34	986.94	43.95	43.80	934.63	156.88	149.35
P1462_160_Zrn_A_1_MBD_29	987.11	39.25	39.13	206Pb/238U	123	2.42	1.64872	0.17379	0.16547	0.00708	989.06	67.74	65.55	987.11	39.25	39.13	993.38	216.57	202.43
P1462_160_Zrn_A_1_MBD_51	989.11	32.46	32.38	206Pb/238U	192	2.57	1.64275	0.10477	0.16583	0.00586	986.77	40.66	39.86	989.11	32.46	32.38	981.57	124.99	120.15
P1462_160_Zrn_A_1_MBD_103	991.07	71.62	71.22	206Pb/238U	44	2.41	1.71005	0.27959	0.16619	0.01292	1012.31	107.55	102.14	991.07	71.62	71.22	1058.54	314.97	285.83
P1462_160_Zrn_A_1_MBD_8	992.60	35.53	35.43	206Pb/238U	142	3.09	1.75151	0.12105	0.16646	0.00642	1027.72	45.17	44.19	992.60	35.53	35.43	1103.25	131.64	126.25
P1462_160_Zrn_A_1_MBD_86	993.53	30.86	30.79	206Pb/238U	177	2.51	1.65845	0.10597	0.16663	0.00558	992.79	40.88	40.08	993.53	30.86	30.79	991.15	130.65	125.37
P1462_160_Zrn_A_1_MBD_77	998.25	43.75	43.60	206Pb/238U	59	3.33	1.65697	0.13108	0.16749	0.00791	992.22	50.72	49.49	998.25	43.75	43.60	978.90	172.68	163.59
P1462_160_Zrn_A_1_MBD_48	998.27	40.53	39.73	207Pb/235Uc	196	2.34	1.67285	0.10562	0.16408	0.00745	998.27	40.53	39.73	979.44	41.31	41.18	1039.86	115.77	111.59
P1462_160_Zrn_A_1_MBD_32	1005.30	31.12	31.05	206Pb/238U	269	7.18	1.69943	0.11074	0.16876	0.00564	1008.32	42.09	41.23	1005.30	31.12	31.05	1014.88	128.46	123.35
P1462_160_Zrn_A_1_MBD_52	1007.92	40.85	40.72	206Pb/238U	132	1.41	1.74041	0.11270	0.16924	0.00740	1023.62	42.19	41.33	1007.92	40.85	40.72	1057.32	120.52	115.99
P1462_160_Zrn_A_1_MBD_95	1015.89	55.10	53.64	207Pb/235Uc	41	2.33	1.71963	0.14558	0.17153	0.01096	1015.89	55.10	53.64	1020.56	60.46	60.18	1005.83	162.44	154.35
P1462_160_Zrn_A_1_MBD_50	1023.76	40.26	40.13	206Pb/238U	110	2.51	1.63994	0.14936	0.17212	0.00731	985.69	58.28	56.65	1023.76	40.26	40.13	901.85	193.05	181.80
P1462_160_Zrn_A_1_MBD_66	1026.03	37.49	36.81	207Pb/235Uc	138	3.10	1.74693	0.10050	0.16701	0.00718	1026.03	37.49	36.81	995.60	39.74	39.62	1091.51	115.99	111.79
P1462_160_Zrn_A_1_MBD_96	1039.05	32.88	32.80	206Pb/238U	230	2.50	1.76148	0.19481	0.17490	0.00599	1031.39	72.92	70.40	1039.05	32.88	32.80	1015.19	233.08	216.77
P1462_160_Zrn_A_1_MBD_10	1054.17	73.69	71.11	207Pb/235Uc	36	0.48	1.82412	0.20130	0.18513	0.01457	1054.17	73.69	71.11	1094.97	79.47	78.99	970.60	199.00	187.02
P1462_160_Zrn_A_1_MBD_15	1064.61	26.25	26.20	206Pb/238U	564	8.40	1.91954	0.08884	0.17957	0.00480	1087.91	31.14	30.67	1064.61	26.25	26.20	1134.85	86.80	84.42

**Table 2.** U–Pb age data from the Cretaceous Colombian back–arc basin (*continued*).

Analysis name	Preferred age (Ma)	Sample COS14–1550																	
		2 –sigma	2 +sigma	Age type	[U] (ppm)	U/Th	207Pb/235U Ratio	2 sigma	206Pb/238U Ratio	2 sigma	207Pb/235Uc age (Ma)	2 –sigma	2 +sigma	206Pb/238U age (Ma)	2 –sigma	2 +sigma	207Pb/206Pb age (Ma)	2 –sigma	2 +sigma
P1462_160_Zrn_A_1_MBD_45	1090.38	44.09	43.15	207Pb/235Uc	64	1.86	1.92666	0.12570	0.18026	0.00803	1090.38	44.09	43.15	1068.38	43.91	43.76	1134.59	119.07	114.64
P1462_160_Zrn_A_1_MBD_23	1104.20	33.90	33.34	207Pb/235Uc	171	5.55	1.96677	0.09822	0.18859	0.00663	1104.20	33.90	33.34	1113.72	36.03	35.93	1085.50	89.65	87.11
P1462_160_Zrn_A_1_MBD_105	1106.02	57.56	55.97	207Pb/235Uc	239	4.17	1.97208	0.16611	0.18158	0.01212	1106.02	57.56	55.97	1075.59	66.27	65.93	1166.35	143.34	136.95
P1462_160_Zrn_A_1_MBD_67	1111.03	40.02	39.90	206Pb/238U	329	1.34	2.05362	0.12893	0.18809	0.00736	1133.50	43.33	42.42	1111.03	40.02	39.90	1176.79	116.88	112.59
P1462_160_Zrn_A_1_MBD_46	1128.03	55.54	55.31	206Pb/238U	41	2.43	1.97598	0.23518	0.19123	0.01024	1107.35	81.87	78.70	1128.03	55.54	55.31	1066.95	248.04	229.60
P1462_160_Zrn_A_1_MBD_64	1132.47	35.33	35.24	206Pb/238U	424	3.38	2.04321	0.11156	0.19205	0.00652	1130.03	37.57	36.88	1132.47	35.33	35.24	1125.36	103.56	100.19
P1462_160_Zrn_A_1_MBD_5	1137.98	39.82	39.05	207Pb/235Uc	613	3.23	2.06712	0.11910	0.19024	0.00802	1137.98	39.82	39.05	1122.66	43.52	43.37	1167.31	90.16	87.59
P1462_160_Zrn_A_1_MBD_97	1156.58	36.11	35.47	207Pb/235Uc	397	1.67	2.12381	0.11010	0.19519	0.00702	1156.58	36.11	35.47	1149.46	37.93	37.82	1169.94	94.38	91.57
P1462_160_Zrn_A_1_MBD_37	1172.60	31.31	30.83	207Pb/235Uc	217	2.92	2.17349	0.09710	0.20413	0.00658	1172.60	31.31	30.83	1197.47	35.27	35.18	1126.96	86.11	83.77
P1462_160_Zrn_A_1_MBD_70	1174.03	52.12	51.91	206Pb/238U	152	1.57	2.35024	0.19610	0.19976	0.00968	1227.63	60.32	58.58	1174.03	52.12	51.91	1323.04	168.28	159.47
P1462_160_Zrn_A_1_MBD_78	1176.60	37.16	36.49	207Pb/235Uc	300	3.51	2.18602	0.11553	0.19709	0.00777	1176.60	37.16	36.49	1159.68	41.92	41.78	1207.84	88.01	85.55
P1462_160_Zrn_A_1_MBD_34	1177.29	41.40	41.26	206Pb/238U	210	1.51	2.27103	0.15670	0.20037	0.00770	1203.34	49.23	48.07	1177.29	41.40	41.26	1250.40	127.05	121.98
P1462_160_Zrn_A_1_MBD_0	1315.27	47.42	47.25	206Pb/238U	150	1.49	2.57186	0.17741	0.22634	0.00900	1292.67	51.07	49.82	1315.27	47.42	47.25	1255.33	132.37	126.88
P1462_160_Zrn_A_1_MBD_47	1348.66	48.88	48.70	206Pb/238U	89	2.10	2.91817	0.22558	0.23271	0.00933	1386.63	59.32	57.63	1348.66	48.88	48.70	1445.56	148.23	141.31
P1462_160_Zrn_A_1_MBD_44	1388.73	59.46	59.19	206Pb/238U	80	2.10	3.11938	0.27613	0.24039	0.01141	1437.48	69.23	66.95	1388.73	59.46	59.19	1510.39	160.93	152.78
P1462_160_Zrn_A_1_MBD_3	1408.85	33.15	32.61	207Pb/235Uc	1562	22.36	3.00486	0.12968	0.23882	0.00804	1408.85	33.15	32.61	1380.56	41.91	41.78	1451.91	67.53	66.06
P1462_160_Zrn_A_1_MBD_99	1414.05	42.92	42.78	206Pb/238U	182	1.80	3.11908	0.18589	0.24527	0.00828	1437.41	46.35	45.31	1414.05	42.92	42.78	1472.15	109.88	106.02
P1462_160_Zrn_A_1_MBD_54	1446.45	43.70	42.78	207Pb/235Uc	326	2.29	3.15592	0.17696	0.24988	0.00935	1446.45	43.70	42.78	1437.84	48.31	48.13	1459.13	97.49	94.45
P1462_160_Zrn_A_1_MBD_31	1459.10	54.11	53.88	206Pb/238U	60	2.37	3.24755	0.29179	0.25401	0.01050	1468.59	70.98	68.58	1459.10	54.11	53.88	1482.35	169.66	160.63
P1462_160_Zrn_A_1_MBD_82	1462.63	51.59	50.31	207Pb/235Uc	141	1.59	3.22270	0.21186	0.25216	0.01032	1462.63	51.59	50.31	1449.62	53.24	53.03	1481.59	124.08	119.18
P1462_160_Zrn_A_1_MBD_11	1475.58	41.55	40.72	207Pb/235Uc	264	1.92	3.27690	0.17325	0.25251	0.00825	1475.58	41.55	40.72	1451.41	42.54	42.40	1510.53	94.57	91.70
P1462_160_Zrn_A_1_MBD_21	1475.72	49.21	48.05	207Pb/235Uc	191	1.80	3.27749	0.20482	0.24638	0.01059	1475.72	49.21	48.05	1419.76	54.90	54.67	1557.15	107.67	103.95
P1462_160_Zrn_A_1_MBD_40	1494.01	46.49	45.45	207Pb/235Uc	312	2.29	3.35521	0.19714	0.25147	0.01266	1494.01	46.49	45.45	1446.05	65.38	65.05	1562.73	82.98	80.76
P1462_160_Zrn_A_1_MBD_65	1499.98	41.66	40.83	207Pb/235Uc	328	2.24	3.38092	0.17793	0.26045	0.01063	1499.98	41.66	40.83	1492.13	54.48	54.25	1511.09	97.29	94.25
P1462_160_Zrn_A_1_MBD_55	1525.23	57.30	55.73	207Pb/235Uc	385	1.66	3.49121	0.24990	0.25543	0.01380	1525.23	57.30	55.73	1466.40	71.06	70.67	1607.83	100.42	97.17
P1462_160_Zrn_A_1_MBD_36	1568.84	67.12	64.97	207Pb/235Uc	37	1.60	3.68832	0.30485	0.26873	0.01452	1568.84	67.12	64.97	1534.34	74.01	73.58	1615.58	153.70	146.21
P1462_160_Zrn_A_1_MBD_90	1744.35	43.98	43.05	207Pb/235Uc	260	1.31	4.57292	0.23879	0.30209	0.01128	1744.35	43.98	43.05	1701.68	55.98	55.74	1795.88	85.16	82.79
P1462_160_Zrn_A_1_MBD_108	2063.84	70.81	68.42	207Pb/235Uc	88	2.79	6.63372	0.52318	0.37223	0.02230	2063.84	70.81	68.42	2039.88	105.17	104.32	2087.86	127.09	121.81
P1462_160_Zrn_A_1_MBD_2	2155.86	39.39	38.64	207Pb/235Uc	147	1.44	7.35785	0.32109	0.39807	0.01263	2155.86	39.39	38.64	2160.14	58.37	58.11	2151.80	65.34	63.92
P1462_160_Zrn_A_1_MBD_28	2239.57	60.53	58.78	207Pb/235Uc	75	2.11	8.07607	0.53306	0.36058	0.02026	2239.57	60.53	58.78	1984.91	96.33	95.62	2481.25	110.05	106.01
P1462_160_Zrn_A_1_MBD_30	2683.10	72.57	70.78	207Pb/206Pb	315	1.48	11.85283	0.99591	0.46895	0.03775	2592.85	80.24	77.19	2478.93	166.74	164.61	2683.10	72.57	70.78