U-Th-Pb isotopic data

	Compositional Parameters							Radiogenic Isotope Ratios									Weighted Mean (Ma)				
	Th ²⁰⁶ Pb* mol % Pb* Pb _c ²⁰⁶ Pb			²⁰⁶ Ph	208 207 207 206							corr.	²⁰⁷ Pb ²⁰⁷ Pb ²⁰⁶ Pb					²⁰⁷ Pb			
Commlo	U	x10 ⁻¹³ mol	206Pb*	Pb _c	(pg)	²⁰⁴ Pb	²⁰⁶ Pb	206 Ph	% err	235U	% err	238U	% егг	coef.	²⁰⁶ Pb	±	235U	±	238U	±	²⁰⁶ Pb
Sample (a)	(b)	(c)	(c)	(c)	(c)	(d)	(e)	(e)	(f)	(e)	(f)	(e)	(f)		(g)	(f)	(g)	(f)	(g)	(f)	(h)
ECMB4																					
zl zl	0.459	1.7560	99.84%	189	0.24	11080	0.134	0.108748	0.071	4.747907	0.150	0.316793	0.096	0.927	1777.72	1.29	1775.74	1.26	1774.05	1.50	
z2	0.538	2.9136	99.88%	258	0.29	14816	0.157	0.108642	0.065	4.746500		0.317007	0.072	0.961	1775.96		1775.49	1.10	1775.09	1.12	$1776.76 \pm 0.49 [2.40]$ MSWD = 1.15 POF = 0.33
z3	0.482	0.8672	99.78%	138	0.16	8032	0.141	0.108731	0.088	4.737140	0.177	0.316124	0.120	0.896	1777.44	1.60	1773.83	1.49	1770.77	1.85	
z4	0.468	1.1223	99.79%	144	0.20	8395	0.137	0.108707	0.076	4.742804	0.168	0.316572	0.115	0.921	1777.04	1.39	1774.84	1.41	1772.97	1.78	
z5	0.572	2.6740	99.84%	201	0.35	11478	0.167	0.108678	0.068	4.730009	0.135	0.315801	0.074	0.952	1776.56	1.25	1772.57	1.13	1769.19	1.14	
z6	0.467	3.2913	99.82%	173	0.49	10119	0.136	0.108710	0.067	4.749514	0.134	0.317009	0.074	0.956	1777.10	1.22	1776.02	1.12	1775.11	1.15	
z7	0.446	3.8518	99.92%	381	0.26	22347	0.130	0.108530	0.064	4.711602	0.130	0.315002	0.072	0.959	1774.07	1.17	1769.30	1.09	1765.27	1.11	
z8	0.506	5.8883	99.75%	119	1.28	6606	0.148	0.108644	0.067	4.746793	0.132	0.317021	0.070	0.959	1775.98	1.23	1775.54	1.10	1775.17	1.09	
0.74																					
QP1																					
z1	0.359	9.6958	99.96%	768	0.32	45979	0.105	0.108903	0.061	4.774622	0.126	0.318120	0.070	0.967		1.12	1780.45	1.06	1780.54	1.08	1780.78 ± 0.45 [2.39] MSWD = 0.53 POF = 0.82
z2	0.401	4.9637	98.54%	21 269	6.10 0.61	1236 15865	0.117	0.108932	0.149	4.775515	0.206	0.318096	0.073	0.847	1780.81		1780.60 1780.08	1.73	1780.43 1779.06	1.14	
z3 z4	0.423	6.4130 2.7906	99.89% 99.91%	325	0.01	19550	0.123	0.108956	0.064	4.772557 4.771584		0.317818	0.069	0.967	1781.28 1781.22		1780.08	1.10	1778.80	1.13	
z5	0.366	2.5302	99.85%	198	0.32	11825	0.098	0.108930	0.068	4.775083	0.131	0.317704	0.073	0.944		1.24	1780.53	1.14	1778.80	1.19	
z6	0.360	2.8906	99.92%	401	0.18	23996	0.107	0.108922	0.066	4.772373		0.317916	0.074	0.951		1.20	1780.05	1.11	1779 54	1.15	
z7	0.451	5.0856	99.69%	100	1.30	5857	0.131	0.108882	0.072	4.771395		0.317968	0.070	0.952	1779.98	1.31	1779.88	1.13	1779.80	1.08	
z8	0.455	2.5040	99.63%	84	0.76	4943	0.133	0.108938	0.076	4.756832		0.316833	0.072	0.942	1780.92		1777.31			1.12	
ECMB6																					
z1	0.284	1.213	0.990	30.870	0.97	1899.098	0.083	0.108982	0.123	4.778311	0.211	0.318136	0.135	0.834	1781.66	2.25	1781.10	1.77	1780.62	2.11	
z2	0.335	4.276	0.999	226.896	0.47	13671.762	0.098	0.108953	0.066	4.771689	0.130	0.317780	0.070	0.958	1781.17	1.20	1779.93	1.09	1778.88	1.10	1781.44 ± 0.51 [2.40] MSWD = 1.24 POF = 0.28
z3	0.376	2.430	0.998	155.473	0.39	9279.850	0.110	0.109024	0.086	4.774201	0.156	0.317741	0.096	0.872	1782.35	1.57	1780.37	1.31	1778.69	1.48	
z4	0.476	1.918	0.998	191.621	0.26	11163.360	0.139	0.109071	0.098	4.775361	0.155	0.317681	0.084	0.822	1783.14	1.80	1780.58	1.30	1778.39	1.30	
z5	0.315	2.478	0.999	228.261	0.27	13819.538	0.092	0.108954	0.069	4.777931	0.134	0.318193	0.072	0.953	1781.18	1.25	1781.03	1.13	1780.90	1.13	
z6	0.332	1.064	0.998	155.064	0.17	9355.845	0.097	0.109010	0.084	4.755533	0.160	0.316539	0.101	0.893	1782.11		1777.08	1.35	1772.81	1.57	
z7	0.342	2.990	0.999	215.887	0.35	12986.019	0.100	0.108930	0.069	4.768270	0.133	0.317621	0.071	0.946	1780.77	1.26	1779.33	1.11	1778.10	1.11	
z8	0.368	2.149	0.998	126.819	0.43	7588.570	0.107	0.108921	0.074	4.768637	0.141	0.317671	0.079	0.931	1780.62	1.35	1779.39	1.18	1778.35	1.22	

⁽a) z1, z2 etc. are labels for single zircon grains or fragments annealed and chemically abraded after Mattinson (2005). Bold indicates z fraction included in weighted mean.
(b) Model Th/U ratio iteratively calculated from the radiogenic ²⁰⁸Pb/²⁰⁶Pb ratio and ²⁰⁶Pb/²²⁸U age.
(c) Pb* and Pbc represent radiogenic and common Pb, respectively; mol % ²⁰⁶Pb* with respect to radiogenic, blank and initial common Pb.

⁽d) Measured ratio corrected for spike and fractionation only. Fractionation estimated at 0.16 ± 0.03 %/a.m.u. (1 sigma) for Daly analyses, based on analyses of EARTHTIME 202-205 trace solution run recently.

(e) Corrected for fractionation, spike, and common Pb, all common Pb was assumed to be procedural blank: ²⁰⁶Pb/²⁰⁴Pb = 18.042 ± 0.61%; ²⁰⁷Pb/²⁰⁴Pb = 15.537 ± 0.52%; ²⁰⁸Pb/²⁰⁴Pb = 37.686 ± 0.63% (all uncertainties 1-sigma).

(f) Errors are 2 sigma, propagated using the algorithms of Schmitz and Schoene (2007).

(g) Calculations are based on the decay constants of Jaffey et al. (1971) and Hiess et al. (2012). ²⁰⁶Pb/²³⁸U and ²⁰⁷Pb/²⁰⁶Pb ages corrected for initial disequilibrium in ²³⁰Tb/²³⁸U using DTh/U [magma] = 0.20 ± 0.05 (1 sigma).

(h) Weighted mean ± 2s internal uncertainty [± 2s internal + decay constant uncertainties]. MSWD = Mean Standard Weighted Deviation. POF = Probability of Fit