Table A: U-Th-Pb data from D'Entrecasteaux Islands and Goodenough No. 1 Well

Grain	U	Th	Th/U	$^{204}Pb/^{206}Pb$	$^{207}Pb/^{206}Pb$	$^{238}U/^{206}Pb$	Age[1]
Z968 Felsic gneiss, Goodenough Island 89301							
1.0	149	40	0.27	0.01658 ± 0.00649	0.13584 ± 0.00904	481 ± 26	12.08 ± 0.68
2.0	191	105	0.55	0.02947 ± 0.01316	0.29232 ± 0.03695	1726 ± 141	2.73 ± 0.27
3.0	648	116	0.18	0.00796 ± 0.00307	0.09755 ± 0.00632	1267 ± 58	4.80 ± 0.23
4.0	218	193	0.88	0.02631 ± 0.01214	0.20506 ± 0.02127	2052 ± 153	2.60 ± 0.21
5.0	312	266	0.85	0.02491 ± 0.00950	0.22656 ± 0.02035	2063 ± 203	2.51 ± 0.26
6.0	216	153	0.71	0.02380 ± 0.01046	0.24095 ± 0.01590	2001 ± 133	2.54 ± 0.18
7.0	284	185	0.65	0.02309 ± 0.00726	0.17402 ± 0.01084	2066 ± 266	2.68 ± 0.35
8.0	285	127	0.45	0.00192 ± 0.00079	0.06213 ± 0.00277	159 ± 4	39.81 ± 0.96
9.0	110	31	0.28	0.03562 ± 0.01602	0.28508 ± 0.03258	2005 ± 237	2.38 ± 0.30
10.0	190	99	0.52	0.01397 ± 0.00861	0.16788 ± 0.01917	1782 ± 163	3.14 ± 0.30
11.0	184	66	0.36	0.02665 ± 0.00990	0.19034 ± 0.02317	1771 ± 162	3.07 ± 0.30
12.0	185	53	0.29	0.01247 ± 0.00738	0.22988 ± 0.02180	2353 ± 224	2.19 ± 0.22
13.0	105	50	0.48	0.00296 ± 0.00498	0.24198 ± 0.03155	1474 ± 174	3.44 ± 0.43
14.0	288	38	0.13	0.02478 ± 0.01569	0.18188 ± 0.02900	1972 ± 771	2.78 ± 1.09
Z1021 Felsic gneiss, Goodenough Island 89303							
5.0	807	395	0.49	0.00486 ± 0.00184	0.10592 ± 0.00511	362 ± 14	16.41 ± 0.64
6.0	201	85	0.42	0.00576 ± 0.00239	0.08995 ± 0.00417	160 ± 5	37.82 ± 1.19
7.0	174	63	0.36	0.01544 ± 0.00752	0.23462 ± 0.01886	262 ± 16	18.70 ± 1.29
8.0	376	275	0.73	0.00219 ± 0.00090	0.06253 ± 0.00235	116 ± 3	53.99 ± 1.43
9.0	155	132	0.85	0.01938 ± 0.00991	0.30873 ± 0.03500	1378 ± 146	3.12 ± 0.39
10.0	418	65	0.16	0.00094 ± 0.00055	0.05796 ± 0.00269	104 ± 3	60.50 ± 1.62
11.0	229	125	0.55	0.01643 ± 0.00768	0.28508 ± 0.02925	223 ± 14	20.05 ± 1.65
12.0	214	105	0.49	0.00306 ± 0.00145	0.05987 ± 0.00382	66 ± 3	95.57 ± 3.68
13.0	239	250	1.04	0.05006 ± 0.01404	0.37168 ± 0.03144	1672 ± 105	2.26 ± 0.21
14.0	136	36	0.27	0.01182 ± 0.00459	0.15323 ± 0.01058	224 ± 18	24.80 ± 1.99
15.0	234	265	1.13	0.05982 ± 0.01243	0.67272 ± 0.03616	874 ± 48	1.50 ± 0.35
16.0	228	321	1.40	0.08180 ± 0.01465	0.64998 ± 0.03766	1143 ± 83	1.31 ± 0.29
17.0	193	193	1.00	0.01509 ± 0.01141	0.32827 ± 0.02956	1521 ± 166	2.72 ± 0.34
18.0	88	68	0.77	<0.02	0.35417 ± 0.07509	1586 ± 300	2.47 ± 0.61
19.0	135	104	0.77	0.05366 ± 0.02044	0.23523 ± 0.03458	1635 ± 143	2.99 ± 0.31
20.0	476	187	0.39	0.00658 ± 0.00286	0.09263 ± 0.00602	182 ± 6	33.26 ± 1.12
Z1022 Omara granodiorite 89652							
1.1	1188	1934	1.63	0.03019 ± 0.01555	0.24424 ± 0.03140	2670 ± 319	1.89 ± 0.24
1.2	1213	1959	1.62	0.00708 ± 0.00647	0.24584 ± 0.05166	2642 ± 312	1.91 ± 0.26
1.3	1699	2465	1.45	0.00474 ± 0.00274	0.13774 ± 0.00981	3236 ± 169	1.79 ± 0.10
1.4	1653	2421	1.46	<0.01	0.15644 ± 0.01445	2980 ± 280	1.90 ± 0.18
2.1	1305	1966	1.51	0.01566 ± 0.00724	0.11971 ± 0.01287	3056 ± 204	1.94 ± 0.13
2.2	1319	1961	1.49	0.02742 ± 0.00874	0.14439 ± 0.01314	2803 ± 405	2.05 ± 0.30
3.1	1814	3439	1.90	0.00694 ± 0.00405	0.08997 ± 0.00972	2982 ± 272	2.06 ± 0.19
4.1	1571	2592	1.65	0.00315 ± 0.00144	0.07975 ± 0.00400	3106 ± 222	2.03 ± 0.15
5.1	2202	3156	1.43	0.00383 ± 0.00163	0.05758 ± 0.00420	3083 ± 84	2.06 ± 0.06
Z1137 Normanby granodiorite 89329							
1.1	197	222	1.13	0.23109 ± 0.05537	0.44001 ± 0.04401	3036 ± 647	1.21 ± 0.28
2.1	110	92	0.84	0.09570 ± 0.03834	0.52607 ± 0.08647	2704 ± 734	1.13 ± 0.38
3.1	738	1090	1.48	0.02897 ± 0.00980	0.16233 ± 0.01874	3397 ± 457	1.66 ± 0.23
4.1	1698	3355	1.98	0.00862 ± 0.00391	0.08118 ± 0.00641	3547 ± 355	1.75 ± 0.18
5.1	164	156	0.95	0.06411 ± 0.04100	0.65054 ± 0.17864	579 ± 85	3.78 ± 2.24
6.1	1925	3195	1.66	0.02711 ± 0.00897	0.19584 ± 0.01501	2870 ± 380	1.88 ± 0.25
7.1	1189	1864	1.57	0.00643 ± 0.00398	0.10263 ± 0.01170	3672 ± 552	1.65 ± 0.25
8.1	295	323	1.09	0.05903 ± 0.02145	0.17773 ± 0.02721	3776 ± 1427	1.46 ± 0.55
9.1	1220	1750	1.43	0.01212 ± 0.00424	0.08407 ± 0.00875	3615 ± 445	1.71 ± 0.21
10.1	94	71	0.76	0.08024 ± 0.03093	0.70999 ± 0.09649	332 ± 37	5.33 ± 2.13

Grain	U	Th	Th/U	$^{204}Pb/^{206}Pb$	$^{207}Pb^*/^{206}Pb^*$	$^{238}U/^{206}Pb^*$	Age2
(*These data have had common lead subtracted.)							
Z1136 Goodenough Well No. 1.							
1106 - 1109 m							
1.1	92	64	0.70	0.00020 ± 0.00006	0.1940 ± 0.0021	1.83 ± 0.03	2777 ± 18
2.1	68	38	0.55	0.00008 ± 0.00005	0.1955 ± 0.0018	1.87 ± 0.04	2789 ± 15
3.1	77	45	0.59	0.00003 ± 0.00004	0.1962 ± 0.0023	1.85 ± 0.09	2795 ± 19
4.1	63	44	0.69	0.00013 ± 0.00010	0.1937 ± 0.0032	1.84 ± 0.06	2773 ± 27
5.1	85	49	0.58	<0.0001	0.1939 ± 0.0016	1.82 ± 0.05	2775 ± 14
6.1	77	44	0.57	0.00006 ± 0.00006	0.1958 ± 0.0025	1.87 ± 0.05	2791 ± 21
7.1	67	32	0.48	0.00239 ± 0.00048	0.1884 ± 0.0082	2.21 ± 0.09	2728 ± 74
8.1	58	33	0.57	0.00149 ± 0.00025	0.1920 ± 0.0051	1.81 ± 0.04	2760 ± 44
9.1	57	30	0.52	0.00010 ± 0.00008	0.1956 ± 0.0034	1.84 ± 0.08	2790 ± 28
10.1	66	37	0.57	0.00049 ± 0.00012	0.1917 ± 0.0037	1.80 ± 0.04	2757 ± 32
360 - 366 m							
11.1	108	78	0.72	0.00010 ± 0.00004	0.1945 ± 0.0015	1.85 ± 0.06	2781 ± 12
12.1	63	29	0.45	<0.0001	0.1848 ± 0.0040	1.69 ± 0.06	2697 ± 36
13.1	71	52	0.73	<0.0001	0.1961 ± 0.0014	1.88 ± 0.04	2794 ± 12
14.1	82	59	0.72	0.00011 ± 0.00006	0.1960 ± 0.0020	1.84 ± 0.06	2793 ± 17
15.1	61	37	0.60	0.00010 ± 0.00014	0.1919 ± 0.0044	1.75 ± 0.05	2758 ± 38
16.1	114	69	0.60	0.00048 ± 0.00026	0.1867 ± 0.0057	1.75 ± 0.08	2714 ± 52
17.1	43	18	0.41	0.00011 ± 0.00013	0.1968 ± 0.0047	1.82 ± 0.07	2800 ± 39
18.1	112	81	0.72	0.00025 ± 0.00007	0.1941 ± 0.0016	1.92 ± 0.06	2777 ± 14
19.1	69	40	0.58	<0.0001	0.1909 ± 0.0034	1.67 ± 0.09	2750 ± 29

1 $^{238}U/^{206}Pb$ age based on extrapolation to concordia from Broken Hill common Pb.
2 $^{207}Pb/^{206}Pb$ age after correction for common Pb based on $^{204}Pb/^{206}Pb$