

UWA DATA LOG: SHRIMP ZIRCON U-Pb

Date: 21/4/97 UWA Mount No. 96-80 Whose sample? CY Operator(s) McN/JD/IRF/CY

Indicate any change to the following: 196 204 bkg 206 207 208 238 248 254
 Precambrian Count time (secs): 2 10 10 10 30/10 10 5 5 2
 Phanerozoic* Delay time (secs): 7.8 3 1 2 1 1 3 2 2
 expected 196-204 = 8.170 amu expected 204-bkg = 0.040 amu Dead-time = 32 nanosecs
 actual 196-204 = 8.170 actual 204-bkg = 0.040 expected resolution = >4200
 actual 206-207 = 1.003 actual 206-208 = 2.000 actual resolution = 4885
 Primary = 1.2 nA PESABM = 15 pA actual Primary : PESABM (≈ 50:1) = 80
 Raster time (mins): 3.3 Raster aperture (microns): 100 No. of scans: 7

Comments: C = 330/Aif3 (Dirk) n=17
 getting higher 204 counts. change to 3 new raster.
 D = 330/Aib (Dirk) n=28

Rejection over-ride	Sample/Std ID	Time - printout	UO/U	196 K cps	206 cps	U ppm	204Pb ppb	f206 %	Age ±1σ (Ma) 206/238	207/206	Corr.
206	sl. 5-1	10:43	7.37	6.5	903	220	1.3	-06	572 ± 1	540 ± 24	208
206 254	sl. 5-2	11:03	7.26	6.6	858	221	0.5	.05	553 ± 1	590 ± 24	208
206 254	C. 1-1	11:25	7.17	6.7	2.4K	113	5.3	.13	2652 ± 10	2724 ± 8	204
254	C. 2-1	11:45	7.08	6.9	2.5K	138	1.7	.04	2294 ± 8	2590 ± 7	204
-	sl. 5-3	12:06	7.16	6.5	850	228	-0.4	.06	562 ± 1	595 ± 25	208
206 207 208 254	C. 3-1	12:26	7.51	6.3	3.4K	154	2.6	.05	2618 ± 8	2706 ± 6	204
206 207 (1) 238	C. 2-2	12:52	6.85	7.0	1.6K	79	9.0	.29	2724 ± 12	2736 ± 9	204
Del (1)	C. 4-1	13:15	7.06	7.1	2.8K	127	3.6	.07	2719 ± 9	2736 ± 6	204
204 206	C. 5-1	13:35	7.58	6.8	4.5K	246	12.5	.20	2000	2268	204
-	sl. 5-4	13:56	6.97	7.3	901	234	8.5	.62	559 ± 1	576 ± 25	208
248	C. 6-1	14:19	7.13	6.8	2035	120	9.5	.27	2180	2496	204

Mount/sample No: 96-80Date: 2/4/97Page No: 2

Rejection over-ride	Sample/ Std ID	Time - printout	UO/U	196 kcps	206 cps	U ppm	204Pb ppb	f206 %	Age ±1σ (Ma) 206/238	207/206	Corr.
	196 C-7-1	14:43	7:10	7.1	1.31K	63	1.7	.08	2562	2658 2665	204
	- C-8-1	15:23	7:18	6.8	3 K	128	5.2	.10	2781	2816 ± 6	204
	- C-9-1	15:56	6:48	6.8	1.3 K	211	3.6	1.7	900	1600	204
206	C-10-1	16:17	7:45	6.4	2.1 K	100	3.6	.11	2488	2635	204
206 248 254	sl 5-5	16:40	— no printout, but ok								
204	C-11-1	17:07	7:07	7.4	2.4 K	107	3.9	.10	2583	2714	204
208	C-12-1	17:37	6:43	7.7	3 K	176	6.4	.13	2104	2480	204
206	C-13-1	18:01	7:18	7.4	2.8 K	119	1.1	.02	2659 ± 9	2655 ± 7	204
	- C-14-1	18:24	6:44	7.5	3.5 K	175	9.8	.17	2433	2640	204
	- C-15-1	18:46	7:27	7.7	2.7 K	117	0.9	.02	2461	2563	204
206	sl 5-6	19:07	7:28	7.3	987	223	2.2	.05	570	560	208
196 206 → 254	D.1-1	19:30	6:44	8.0	2802	120	3.7	.08	2664 ± 9	2669 ± 7	204
206 207 208 248 254	C.16-1	19:55	6:39	8.9	1669	100	5.2	.17	2263 ± 9	2585 ± 10	204
207 254	D.2-1	20:17	7:22	7.7	2276	94	2.0	.06	2562 ± 10	2633 ± 8	204
	- D.3-1	20:40	7:05	7.5	828	35	0.6	.05	2723 ± 17	2706 ± 13	204
196 248 254	D.4-1	21:01	7:23	7.4	3823	224	2.8	.05	1973 ± 5	2364 ± 6	204
196 206 238	sl 5-7	21:23	7:04	7.7	989	233	0.2	.02	570 ± 1	525 ± 27	204
196 207 254	D.5-1	21:44	7:17	7.5	1161	48	0.0	-	2675 ± 14	2697 ± 10	-
	- D.6-1	22:07	6:41	7.5	545	25	1.8	0.19	2667 ± 21	2691 ± 17	204
206	D.7-1	22:28	7:10	7.4	670	30	0.4	0.04	2572 ± 18	2681 ± 14	204
206 238	D.8-1	22:49	7:23	7.5	2123	87	2.0	0.06	2666 ± 11	2665 ± 8	204
196 206	D.9-1	23:10	7:60	7.0	4002	193	21.4	0.40	2164 ± 6	2373 ± 8	204
	- sl 5-8	23:33	7:02	7.8	967	230	-0.8	-	361 ± 1	554 ± 22	-
196 206	D.10-1	23:54	6:41	7.2	1827	90	3.3	.04	2608 ± 11	2786 ± 8	204
196 206 248	D.11-1	00:15	7:69	6.5	4891	309	0.6	.01	1795 ± 4	2041 ± 7	204

Rejection over-ride	Sample/ Std ID	Time - printout	UO/U k cps	196 cps	206 cps	U ppm	204Pb ppb	f206 %	Age ±1σ (Ma) 206/238 207/206	Corr.
196 238 254	D.12-1	00:36	7.08	7.0	2702	125	0.3	.01	2635±9 2672±7	204
196 254	D.13-1	00:58	7.35	6.7	3121	151	8.1	.17	2418±8 2530±7	204
204 238 254	D.14-1	01:20	7.18	7.1	3261	260	4.5	.09	1921±4 2015±8	204
206 248 * 196 238 254 all low	s1.5-9	01:43	7.05	6.8	872	235	0.6	.03	562±1 604±24	208
196 248	D.15-1	2:07	7.41	7.0	3470	176	4.7	.09	2215±6 2407±6	204
208 → 214 * 206 low	D.16-1	2:31	7.68	6.5	4598	227	21.6	.32	2221±6 2445±7	204
196 206 248 254	D.17-1	2:51	7.21	6.5	2378	129	0.3	.01	2382±8 2573±7	204
204 206 217	D.18-1	3:13	7.33	6.5	2675	127	3.7	.08	2553±9 2612±7	204
-	D.19-1	3:35	7.29	6.5	1995	99	4.3	.13	2491±10 2609±8	204
207	s1.4-1	3:58	7.27	6.1	830	226	2.5	.10	565±1 644±24	208
adj. 200 → 196 207 206 254 * 206 248 low 204 238 248	D.20-1	4:27	7.39	5.9	1081	56	0.6	.03	2548±14 2685±11	204
1° unstable →	D.21-1	4:52	7.24	6.6	3186	188	11.8	.23	2158±6 2377±8	204
196	D.22-1	5:14	7.30	6.5	3359	195	7.6	.14	2167±6 2381±7	204
207	D.23-1	5:37	7.05	6.0	1119	54	1.2	.05	2904±17 2867±11	204
196 238 254	D.24-1	5:59	7.42	5.7	3182	196	11.5	.20	2210±7 2390±8	204
196 206 207 238 248 (254)	s1.4-2	6:23	7.20	6.4	847	232	1.7	.03	558±1 612±24	208
248	D.25-1	6:45							no printout	
204 248	D.26-1	7:07	7.18	6.0	1402	74	0.5	0.02	2620±13 2657±9	204
204 207	D.27-1	7:29	7.03	6.3	2492	202	4.6	0.10	1821±5 2337±8	204
206	D.28-1	7:50	7.14	6.3	2004	104	3.0	0.08	2598±10 2660±8	204
	s1.4-3	8:12	7.25	5.8	782	231	0.7	0.03	553±1 662±25	208