

UWA DATA LOG: SHRIMP ZIRCON U-Pb

Date: 10/2/97 UWA Mount No. 96-72 Whose sample? Chris Yeats Operator(s) Mc N + 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): 78 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 = 8.167 actual 204-bkg = 0.040 expected resolution = >4200

actual 206-207 = 1.000 actual 206-208 = 2.000 actual resolution = 4780

Primary = 2.0 nA PESABM = 32 pA actual Primary : PESABM (≈ 50:1) = 62.5

Raster time (mins): 2 Raster aperture (microns): 100 No. of scans: 6

Comments: A = P2 / Yeats C = R2 also ??? → too old for MVK,
 B = R2 / Yeats
 10 ↓ to ~1.6 nA by 1 am
 Continued to drop - ~1.1 nA by 6:30 (s12-12) & stability becoming suspect.

Rejection over-ride Sample/Std ID Time - printout UO/U 196 cps (K) 206 cps U ppm 204Pb ppb f206 % Age ±1σ (Ma) 206/238 207/206 Corr.

Rejection over-ride	Sample/Std ID	Time - printout	UO/U	196 cps (K)	206 cps	U ppm	204Pb ppb	f206 %	Age ±1σ (Ma)	206/238	207/206	Corr.
196 206 208 254	S1.2-1	12:12	6.84	10.1	812	220	2.2	.002	572 ± 1	539 ± 27	208	
196 254	S1.2-2	12:34	6.90	9.9	799	216	2.0	.18	566 ± 1	466 ± 46	204	
204 206 248 206	A.1-1	12:52	6.63	11.1	770	36.5	15.6	1.10	2713 ± 17	2741 ± 20	204	
	A.2-1	13:10	7.08	9.6	1089	53.9	25.3	1.34	2506 ± 13	2674 ± 19	204	
206	S1.2-3	13:28	6.96	9.7	810	220	-1.1	-0.6	560 ± 1	569 ± 27	208	
-	A.3-1	13:47	6.70	10.5	1023	54.6	35.9	1.87	2499 ± 13	2629 ± 23	204	
196 254	A.4-1	14:20	6.56	9.9	795	42.0	2.5	.15	2637 ± 18	2802 ± 17	204	
196 206 207 208 238 254 248 all fix!	A.5-1	14:57	6.90	9.9	1100	57.1	29.2	1.48	2487 ± 12	2613 ± 21	204	
206	S1.2-4	15:15	7.02	9.6	821	218	-1.2	-0.6	568 ± 1	561 ± 27	208	
206 → 254	A.6-1	15:34	6.94	9.8	563	29.3	27.0	2.67	2451 ± 18	2627 ± 35	204	
196 204 207 208 238 254 206, 154 all fix!	A.7-1	15:58	7.86	9.6	853	35.6	5.7	.52	2284 ± 13	2581 ± 19	204	

Rejection over-ride	Sample/ Std ID	Time - printout	UO/U	196 cps (K)	206 cps	U ppm	204Pb ppb	f206 %	Age ±1σ (Ma) 206/238 207/206		Corr.
-	A.8-1	16:24	7.07	9.2	265	12.7	-0.4	-	2710±29	2670±22	-
196 206 238 254	sl.2-5	16:48	6.83	9.9	814	228	0.9	.004	568±1	616±27	208
196 248 254	A.9-1	17:08	7.02	9.6	1051	48.6	-0.4	-	2725±14	2699±11	-
-	A.9-2	17:26	6.99	9.5	948	48.9	85.8	4.98	2442±15	2635±34	204
206 207 208 238 254 248 all foil	A.10-1	18:12	6.96	9.0	1061	54.2	1.5	-0.7	2714±14	2769±12	204
196 206 207 208 254	sl.2-6	18:31	7.11	8.9	791	214	0.0	.05	581±1	495±28	208
196 204 206 207 208 238 248 254	A.10-2	18:57	6.78	9.0	1090	58.2	13.2	.58	2780±14	2623±16	204
196 206 207 238 248 254	A.11-1	19:19	8.17	8.0	2442	309	1436	42.9	537±6	2474±116	204
196 206 207 208 238 254 248 all foil	A.12-1	19:39	7.35	8.6	1243	103	219	10.1	1499±8	2583±44	204
(208)	A.13-1	19:58	7.28	8.6	975	49.4	24.1	1.38	2528±14	2643±21	204
238 248 207 208 209 238 254 all foil	A.14-1	20:17	7.65	8.3	1753	81.6	26.7	9.24	2247±12	2653±36	204
196 238 248 254	sl.2-7	20:36	6.48 7.6	7.6	606	260	-	.04	559±1	551±32	208
206 all foil 196 207 208 209 238 254	A.15-1	20:58	6.72	9.7	1016	76.2	166	8.27	1867±11	2559±44	204
196 248 254	A.16-1	21:19	7.39	8.2	269	14.8	7.9	1.62	2352±25	2696±43	204
196	A.17-1	21:40	7.08	8.1	851	47.8	15.0	.85	2619±16	2690±20	204
196 204 206 207 208 all foil 196 204	A.18-1	22:00	6.90	9.2	1617	133	808	22.87	1457±10	3299±36	204
206 207 208 all foil 196 254	A.19-1	22:19	8.12	7.5	1447	123.5	160	7.12	1321±6	2772±26	204
206 207 208	sl.2-8	22:40	7.06	8.4	739	218	-	.06	576±1	505±29	208
238 248 254 all foil 196 206 208 238 248 254	A.20-1	23:10	7.87	7.5	1015	124.8	158	9.42	1002±6	2603±48	204
(A)	A.21-1	23:29	6.33	7.0	1213	115.7	854	21.61	2054±18	2508±83	204
(B)	B.1-1	00:00	7.53	7.3	3120	151	27.4	.46	2793±9	2619±9	204
196 206 248 196 206 238 248 254	B.1-2	00:17	7.61	8.2	5991	299	26.8	.29	2411±5	2256±7	204
196 206 207 208 248	B.2-1	00:36	6.85	8.1	1945	115.6	16.5	.37	2707±11	2689±10	204
206 248	sl.2-9	00:56	7.01	7.3	629	220.6	2.2	.19	567±1	581±55	204
254	B.3-1	01:16	7.36	6.7	796	46.5	1.5	.08	2711±18	2626±27	204

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.

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.
-	B. 3-2	01:34	7.08	7.2	720	45.3	2.6	.15	2642±17	2676±16	204
196 206 207 208 238 254 248 all foil!	B. 4-1	01:53	6.91	7.6	865	56.5	0.2	.01	2604±15	2699±12	-
-	B. 5-1	02:11	7.52	6.6	1210	68.5	2.2	.08	2679±14	2657±12	204
196 204 206 207 208 238 254 248 all foil! 206 208	B. 5-2	02:29	7.55	6.7	3516	199.8	7.1	.10	2628±8	2630±7	204
248	sl. 2-10	02:48	7.03	6.8	604	220.6	0.5	.05	572±1	519±33	208
196 204 206 208 248 254	B. 6-1	03:07	7.56	6.1	1830	110.3	8.0	.19	2688±11	2653±10	204
-	B. 7-1	03:26	7.08	6.3	1655	128.5	16.1	.37	2484±10	2547±12	204
196 206 207 208	B. 7-2	03:45	7.17	6.2	574	40.1	4.2	.28	2632±19	2664±20	204
238 248 254	B. 7-3	04:08	6.59	6.6	957	75.4	6.7	.23	2784±15	2682±14	204
196 206 207 208 254	B. 8-1	04:29	7.03	6.1	647	49.1	2.9	.16	2637±17	2603±17	204
196 206 238 254	sl. 2-11	04:49	7.07	6.4	540	219.3	-	-	548±1	573±33	208
196 208 238 248 254 206 207 all foil!	B. 8-2	05:08	8.24	5.5	7625	416.1	59.5	.40	2633±6	2357±6	204
206 207 208 248 254 248 all foil!	B. 9-1	05:26	8.23	5.6	5886	379	-	-	2270±5	2322±5	-
206 248 254	B. 9-2	05:44	7.41	6.1	1964	143.2	7.3	.16	2395±9	2522±10	204
206 207 208	B. 10-1	06:03	7.77	5.8	4481	307.8	15.0	.15	2421±6	2359±7	204
248 254 204 207 208 248 254 206 all foil!	B. 11-1	06:24	7.12	5.9	7276	148.6	1010	4.68	6619±22	3023±19	204 !
196 206 207 238 248 254	sl. 2-12	06:46	7.17	4.8	427.1	221.8	-	.10	545±1	612±38	208
196 206 207 238 248 206 207 238 254 248 all foil!	C. 1-1	07:06	7.74	4.7	6247	443.7	143.2	.78	2743±7	2997±6	204
248 all foil!	C. 2-1	07:24	7.95	4.6	10572	664.1	28.2	.10	2928±5	2873±4	204
196 206 208 238 248 254 all foil!	C. 3-1	07:45	7.43	4.6	3220	639.1	40.9	.42	1267±2	2434±9	204
206 207 208 238	C. 4-1	08:06	7.54	4.4	631.2	49.3	10.9	.51	2923±18	2868±21	204
238 254	sl. 1-1	08:25	6.99	4.4	370.5	221.4	-	.09	544±1	648±40	208

(B)
(C)