

UWA DATA LOG: SHRIMP ZIRCON U-Pb

Date: 12/12/96 UWA Mount No.: 96-73 Whose sample?: Chris Yeats Operator(s): IF + 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 = 8.1680 actual 204-bkg = 0.042 expected resolution = >4200
 actual 206-207 = 1.000 actual 206-208 = 1.999 actual resolution = 4783
 Primary = 2.3 nA PESABM = 3.5 pA actual Primary : PESABM (≈ 50:1) = 66
 Raster time (mins): 5 Raster aperture (microns): 100 No. of scans: 7

Comments: Numbering According to SEM photo for Grains F1-16
 E1-22

Rejection over-ride	Sample/ Std ID	Time - printout	UO/U k cps	196 cps	206 cps	U ppm	204Pb ppb	f ₂₀₆ %	Age ±1σ (Ma) 206/238 207/206	Corr.
196, 206	sl 673-3-1	11:51	6.70	11.1	1291	-	1.2	.10	- 601	208
196, 207	3-2	12:14	6.12	11.6	1323	222	1.1	.12	578 542	208
254	u F.1-1	12:39	7.01	11.0	2000	76	197.	9.7	1838 2628	204
248, 254	F.5-1	13:27	6.64	11.6	1439	51	106	6.5	2196 2674	204
238	F.4-1	13:50	6.88	12.5	1494	86	230.	16.	1117 2602	204
*248, 254 all for	F.8-1	14:12	6.90	10.7	1749	54	30.1	1.6	2533 2738	204
204 206 238	F.8-1	14:12	6.90	10.7	1749	54	30.1	1.6	2533 2738	204
206, 254	sl 3-3	14:40	6.84	10.9	1324	215	1.3	.07	571 621	208
196	E.2-1	15:10	6.70	11.4	1762	53	0	-	2665 2686	2
204 206 238	E.4-1	15:41	6.55	11.2	2922	99	6.3	.18	2594 2654	204
204 206 248	E.5-1	16:04	6.91	11.1	6010	142	36.	.58	3050 2648	204
248 254	E.6-1	16:26	7.35	11.1	5618	143	4.9	.10	2500 2502	204

Rejection over-ride	Sample/ Std ID	Time - printout	UO/U Kcps	196 cps	206 cps	U ppm	204Pb ppb	f206 %	Age ±1σ (Ma) 206/238	207/206	Corr.
196 204 206 207 248	u E-7-1	16:47	7.30	10.6	131K	333	3.8	.03	2595	2468	204
*204, 206, 207, 208 all fail 248	u E-8-1	17:08	7.69	10.3	361K	793	186.	.65	2709	2207	204
206 207	s/ 3-4	17:34	6.74	11.5	1.4K	216.3	0.5	.06	593.1	599.5	204
248	u E-9-1	18:06	6.71	11.8	3.6K	106.4	1.8	.05	2627.6	2625.4	204
*206, 207, 208 all fail	u E-10-1	18:28	6.86	11.9	9.7K	253.4	46.5	0.49	2717.2	2492.7	204
208 248 *207 all fail	u E-11-1	18:53	6.47	11.4	3.6K	119.6	1.9	0.04	2688.5	2650.4	204
204 206 207 248	u E-12-1	19:18	7.28	9.98	16.5K	39.8	14.2	0.09	2277.6	2183.8	204
	s/ 3-5	19:43	6.68	11.4	1.3K	210.0	1.4	.06	596.9	543.1	204
238 248 206 207 208	u E-14-1	20:07	7.49	10.5	35.8K	70.2	3.2	.01	2945.8	2661.2	204
248	u E-15-1	20:30	6.82	11.1	7.4K	204.8	1.2	.02	2769.7	2699.3	204
248	u E-16-1	20:52	6.76	11.9	6.5K	188.2	2.4	.04	2600.8	2616.6	204
207	u E-18-1	21:15	6.77	11.1	8.4K	267.7	2.7	.01	2523.7	2549.1	204
207	s/ 3-6	21:38	6.67	11.9	1.3K	215.4	—	.06	575.6	577.5	—
*248 all fail 208 254	u E-20-1	22:03	7.09	11.1	8.8K	249.5	1.8	.02	2495.7	2426.8	204
Drop last for 248 all	u E-22-1	22:29	7.16	10.2	29.6K	918.9	14.4	.05	2419.9	2153.4	204
206	u E-23-1	22:56	6.70	12.1	4.7K	137.2	4.5	.00	2597.5	2557.9	204
204 248	u E-24-1	23:21	7.16	11.2	10.2K	273.2	9.6	.10	2526.6	2425.7	204
196 206 207 208	s/ 3-7	23:44	6.62	12.0	1.36K	216.0	0.9	.08	586.2	628.4	204
238 254	u F-17-1	00:09	6.90	12.3	5.24K	125.3	77.9	1.6	2769.2	2660.5	204
196 207 v. high! 208 254 *all 208 fail	u F-15-1	00:32	6.50	9.6	2.37K	124.5	144.6	4.2	1258.9	2547.3	204
196 207 254 v. high! *248 all fail	u F-18-1	00:57	6.49	14.6K	2.23K	124.8	37.1	1.7	1153.6	2567.6	204
206 207 208 v. high! 248 254	u F-11-1	01:19	7.16	12.7	2.71K	135.6	71.2	3.2	929.4	2575.6	204
196 206 207 238	s/ 3-8	01:42	6.56	11.9	1.36K	221.8	3.3	.27	592.7	542.0	204
*248 all fail 204 207 208 238 254	u F-19-1	02:08	6.45	11.9	1.53K	67.1	129.1	7.0	1952.7	2605.5	204
207 208 238 254	u F-13-1	02:31	8.50	10.6	2.26K	131.7	26.5	18.9	726.9	2615.0	204

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

<i>*207 all fail!</i>	u16-1	2:53	7.49	9.99	1.77	8.6	579.4	35	1015.0	2697.9	204
<i>208 238 204 254</i>	uE3-1	3:17	7.22	11.1	9.41	250.8	8.9	.01	2510.6	2456.8	204
<i>196 204 207 208</i>	s16-1	3:41	6.75	11.3	1.35	217.4	1.9	.16	579.4	518.7	204
	uE19-1	4:04	6.86	12.1	4.94	133.3	4.1	.09	2613.4	2566.9	204
<i>248</i>	uE25-1	4:27	6.88	11.8	6.94	193.7	3.0	.04	2583.6	2531.3	204
<i>206 248</i>	uE26-1	4:50	6.65	11.5	5.13	18.2	4.8	.08	2635.7	2642.8	204
<i>254</i>	uE27-1	5:12	6.96	11.4	12.1	244.3	140.8	1.2	3327.7	2453.1	204
<i>*206, 207, 208, 248 all fail!</i>	uE28-1	5:32	6.79	11.8	4.16	125.3	7.9	.18	2490.3	2600.1	204
<i>196 208 248</i>	s16-2	5:55	6.81	11.2	1.38	211.8	0.6	.05	594.7	564.6	204
<i>206</i>	uE29-1	6:18	7.28	11.1	12.2	296.8	24.1	2.3	2653.1	2411.3	204
<i>208 248 254 206 207 208</i>	uE30-1	6:47 7:21	14.0	14.4	302.1	21.0	.21	2531.3	2277.3	204	
<i>Del first 2 → Problems with 10 **</i>	s16-3	7:25 7:25	16.71	17.0	1.97	207.8	0.7	.06	600.8	559.3	204
<i>1° non 3:2 nA</i>	uE31-1	7:48	7.69	16.0	17.8	280.3	1.7	.02	2477.8	2348.4	204
<i>208 248 206 207 208</i>	uE32-1	8:13	7.54	15.6	25.6	394.4	7.7	.05	2695.8	2420.8	204
<i>*206, 207, 208 all fail! *206 all fail!</i>	s16-4	8:35	6.83	16.4	197.4	205	0.6	.08	601 ± 1	569 ± 16	208
<i>254 208 238 248</i>	UD.1-1	8:58	6.36	16.9	6.6K	147	18.6	.31	2789 ± 6	2858 ± 5	204
<i>196 206 207</i>	D.2-1	9:19	6.83	14.2	16.6K	330	2.1	.02	2973 ± 4	2913 ± 3	204
<i>*248, 254 all fail! 206 207 208 238</i>	D.3-1	9:42	7.03	14.3	12.8K	251	3.9	.04	2783 ± 4	2763 ± 3	204
<i>204 206 207</i>	s16-5	10:03	6.61	15.3	169.9	216	3.2	.14	577 ± 1	581 ± 18	208
<i>208 248</i>	D.4-1	10:25	6.67	14.9	6.6K	135	0.8	.01	2953 ± 7	2919 ± 4	204
<i>196 208</i>	D.5-1	10:46	6.78	14.7	3.7K	76.8	0.0	—	2831 ± 8	2781 ± 5	—
	D.6-1	11:07	6.45	15.6	4.2K	90.7	2.1	.05	2942 ± 8	2895 ± 5	204
<i>207 248</i>	D.7-1	11:28	6.53	15.5	8.2K	170	4.2	.06	2978 ± 6	2906 ± 4	204
<i>206</i>	D.8-1	11:50	6.73	14.1	7.4K	154	0.3	.004	2974 ± 6	2909 ± 4	204
<i>*254 all fail! 196 207 248</i>	s16-6	12:11	6.53	14.6	167.3	221	0.8	.10	604 ± 1	571 ± 18	208

** Software glitch, although current did jump ~10% mid-run.

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