

UWA DATA LOG: SHRIMP ZIRCON U-Pb

Date: 2/3/96 UWA Mount No.: 95-40 Whose sample?: YUMIN Operator(s): McN + YUMIN

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	5	5	2
	Delay time (secs):	7	3	1	2	1	1	3	2	2
Phanerozoic	Count time (secs):	2	10	10	10	10	10	5	5	2
	Delay time (secs):	7	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 = 8.168 actual 204-bkg = 0.045 expected resolution = >4200
 Primary = 2.4 nA PESABM = DON'T USE pA actual resolution = 4500
 expected Primary : PESABM ≈ 50:1 actual Primary : PESABM = ??

Comments: USE 6 SCANS!! 2 MINUTE RASTER @ μ

Rejection over-ride	Sample/ Std ID	Time - printout	UO/U	196 cps (K)	206 cps	U ppm	204Pb ppb	f ₂₀₆ %	Age ±1σ (Ma) 206/238 207/206	Corr.		
	<u>196. 206 238 248 254</u>	<u>std. 1-1</u>	<u>10:45</u>	<u>5.88</u>	<u>15.4</u>	<u>1313</u>	<u>220</u>	<u>-0.7</u>	<u>—</u>	<u>572±1</u>	<u>549±20</u>	<u>—</u>
	<u>206 238 248</u>	<u>std. 1-2</u>	<u>11:07</u>	<u>6.17</u>	<u>14.5</u>	<u>1378</u>	<u>205</u>	<u>-0.4</u>	<u>—</u>	<u>583±1</u>	<u>542±20</u>	<u>—</u>
	<u>196 206 207 238 248 254</u>	<u>B. 1-1</u>	<u>11:37</u>	<u>6.24</u>	<u>15.1</u>	<u>6.7K</u>	<u>194</u>	<u>14.4</u>	<u>.23</u>	<u>2389±5</u>	<u>2615±5</u>	<u>204</u>
	<u>196. 206 238 248 254</u>	<u>std. 2-1</u>	<u>11:56</u>	<u>5.96</u>	<u>15.0</u>	<u>1383</u>	<u>221</u>	<u>0</u>	<u>0</u>	<u>589±1</u>	<u>526±20</u>	<u>—</u>
	<u>207 208</u>	<u>B. 2-1</u>	<u>12:14</u>	<u>6.27</u>	<u>14.9</u>	<u>3.7K</u>	<u>97.6</u>	<u>1.5</u>	<u>.04</u>	<u>2567±7</u>	<u>2652±6</u>	<u>204</u>
	<u>238</u>	<u>B. 3-1</u>	<u>12:34</u>	<u>6.14</u>	<u>13.1</u>	<u>5.2K</u>	<u>223</u>	<u>133</u>	<u>2.23</u>	<u>1988±4</u>	<u>2589±10</u>	<u>204</u>
	<u>196. 206 207</u>	<u>std. 2-2</u>	<u>12:52</u>	<u>6.23</u>	<u>14.9</u>	<u>1437</u>	<u>206</u>	<u>-0.4</u>	<u>—</u>	<u>571±1</u>	<u>566±19</u>	<u>—</u>
	<u>196. 204. 206 238</u>	<u>B. 4-1</u>	<u>13:13</u>	<u>6.60</u>	<u>15.0</u>	<u>6.3K</u>	<u>176</u>	<u>50.6</u>	<u>1.01</u>	<u>2117±4</u>	<u>2630±7</u>	<u>204</u>
	<u>196 206.7.8 208 250</u>	<u>B. 5-1</u>	<u>13:31</u>	<u>6.70</u>	<u>13.6</u>	<u>10.8K</u>	<u>250</u>	<u>4.7</u>	<u>.05</u>	<u>2622±5</u>	<u>2642±4</u>	<u>204</u>
	<u>196 238 248</u>	<u>B. 6-1</u>	<u>13:49</u>	<u>6.12</u>	<u>15.1</u>	<u>5.9K</u>	<u>162</u>	<u>1.3</u>	<u>.02</u>	<u>2646±6</u>	<u>2626±5</u>	<u>204</u>
	<u>206 238 254</u>	<u>std. 2-3</u>	<u>14:08</u>	<u>6.21</u>	<u>14.7</u>	<u>1422</u>	<u>205</u>	<u>1.2</u>	<u>.11</u>	<u>584±1</u>	<u>—</u>	<u>208</u>

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.
206.28.28	B. 4-2	14:27	6.30	14.6	3.6K	115	80.4	2.37	2148±6	2635±12	204
196 250	B. 7-1	14:45	6.83	12.8	9.8K	289	77.4	.94	2144±4	2533±6	204
196 248 250	B. 8-1	15:03	6.44	15.1	2.6K	86	16.7	.73	1986±6	2643±10	204
(conductivity Problem?) → 206.7 208 250	B. 9-1	15:21	3.30	4.4	1942	-ve	-ve	.18	3031±14	2693±9	204
206 250	std. 2-4	15:40	6.10	15.0	1396	210	-0.9	-	580±1	547±20	-
206.7 248 250	B. 10-1	16:00	6.37	14.8	8.2K	204	0.2	.003	2629±5	2640±4	204
196 206.7 38 48 54	B. 10-2	16:17	6.21	14.9	5.3K	139	0.2	.004	2648±6	2634±5	204
196 250	B. 11-1	16:36	6.31	15.3	895	22	0.3	.03	2636±?	2669±?	204
196 208 248	B. 11-2	16:54	6.26	15.1	851	22	0.9	.11	2640±16	2614±15	204
1° unstable 196 206 207 238 248 250	std. 2-5	17:13	6.11	13.8	1318	211	0.4	.03	591±1	516±39	204
196 206.7.8. 38	B. 12-1	17:32	6.40	13.	7539	259	15.5	0.21	2206±4	2552±5	204
196 207.8 38 48	B. 13-1	17:52	6.75	12.4	9677	348	38.7	.45	1921±3	2527±5	204
196 238 248 250	std. 2-6	18:14	6.26	14.	1387	205	0.4	.04	579±1	576±25	204
196 206.7.8 238. 48 250	B. 14-1	18:34	6.46	14.1	7109	183	1.2	.02	2565±5	2578±5	204
206.7.8 208 250	B. 14-2	19:04	6.15	14.1	5462	158	11.9	.21	2635±6	2620±6	204
206 238	B. 15-1	19:24	6.39	13.7	1390	199	-0.3	-	574±1	539±2	204
196 206.7.8 38 54	15-1	19:44	6.2	13.1	6216	191	3.	.04	2617±6	2603±5	204
196 206 248 250	16-1	20:03	6.57	12.1	6951	205	15.3	.22	2473±5	2616±5	204
196 208 38. 48 54	16-2	20:23	7.14	11.3	9853	328	18.4	.2	1923±3	2444±5	204
	17-1	20:44	6.18	13.2	8108	186	7.6	.11	2650±6	2637±5	204
206 248 250	Sl. 2-8	21:04	6.32	13.3	1318	201	0	-	574	577	204
196 207.8. 38 48 54	18-1	21:30	5.99	12.6	2924	136	4.1	.11	2094±5	2627±7	204
196 248 1° unstable	19-1	21:49	6.41	13.8	5152	142	4.7	.1	2520±6	2641±5	204
207 248	20-1	22:10	6.44	13.8	5825	151	3.3	.06	2618±6	2636±5	204
196 206.7.8 250	21-1	22:29	7.11	12.2	9305	262	8.6	.12	2121±4	2490±4	204

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

206 27 28 38 48 50	21-2	22:48	7.04	13.1	6859	190	12.9	.25	2063 ± 4	2544 ± 5	204
206.7 238 250 250	S1 4-1	23:09	5.99	14.	1257	212	1.	.09	587 ± 1	461 ± 35	204
196.206 238 250	22-1	23:30	6.95	13.9	2049	67.5	6.4	.14	1735 ± 6	2637 ± 10	204
248	23-1	23:50	6.35	13.5	3737	102	0.6	.02	2642 ± 8	2639 ± 6	204
196 206.7.8.38. 48 50	24-1	0:10	6.22	14.5	3693	132	35.2	.95	2081 ± 5	2670 ± 9	204
1° drops 2.5.7 38.48 50	25-1	0:29	6.28	12.4	2126	65	1.7	.07	2651 ± 1	2620 ± 9	204
206.7	S1 4-2	0:48	5.9	13.3	1199	222	1.	—	591	465	204
196.206.208 250	26-1	1:09	6.29	12.8	1511	60	3.9	.24	2088 ± 8	2647 ± 11	204
196.206.7 38 50	27-1	1:28	5.85	14.3	2434	85.1	4.3	5.14	2559	2605 ± 9	204
206.	28-1	1:47	6.22	12.2	6454	206	8.	.11	2654	2597 ± 5	204
206	29-1	2:06	6.74	11.9	1368	36	9.7	.25	2574	2647	204
196 206 38.48 50	30-1	2:25	6.18	12.9	1753	57	1.9	.09	2570 ± 10	2628 ± 10	204
196 206 27 248 250	31-1	2:44	6.23	12.1	3129	98	2.	.005	2713 ± 9	2620 ± 7	204
196 206 248 250	S1 4-3	3:03	6.04	13.2	1210	211	0.7	.03	588 ± 1	543 ± 23	208
Sample A	A1-1	3:25	8.77	8.2	2241	1188	22.6	.16	1057 ± 1	2214 ± 3	204
196.204 206.27.208 38 48	A2-1	3:44	7.33	11.	70. K	1700	131	.24	2432 ± 2	2426 ± 2	204
206 206.7.8.238 48 50	A3-1										
	A4-1	4:12	6.25	12.5	8146	271	266	2.8	2438 ± 5	2612 ± 9	204
Good Problem	S1 4-4	4:35	6.10	12.5	997	210	1.4	.25	498	883	208
206 208 248 250	S1 3-1	4:57	5.995	11.9	1094	221	-0.1	—	576	653	—
196 207 250	B32-1	5:19	7.09	11	8191	290	14.7	.21	1915 ± 3	2494 ± 5	204
196 206.7.8.238 250	33-1	5:42	6.89	12.1	9302	255	47.9	.59	2329	2571	204
196 206.7. 238	34-1	6.	7.2	11.2	6546	227	34.9	.66	1816 ± 4	2442 ± 7	204
196. 207 238.48 250	35-1	6:20	5.77	12.9	1982	106	5.9	.21	2033 ± 7	2636 ± 10	204

24/U 1.91965
 U/U* 6.13296
 P5*/U 0.17823

14 STD
 1.91944
 6.13515
 0.180166

10 1.08