

UWA DATA LOG: SHRIMP ZIRCON U-Pb

Date: 27/1/98 UWA Mount No.: 98-18 Whose sample?: McN + --- Operator(s): IF + AP

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 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 =0.043..... expected resolution = >4200

actual 206-207 =1.000..... actual 206-208 =2.000..... actual resolution =5336.....

Primary =2.3..... nA PESABM =34..... pA actual Primary : PESABM (≈ 50:1) =68.....

Raster time (mins):1..... Raster aperture (microns):120..... No. of scans:6.....

Comments: 1° extremely stable. No problems except temp power failure at 1.45am.

Rejection over-ride	Sample/ Std ID	Time - printout	UO/U	196 kcps	206 cps	U ppm	204Pb ppb	f ₂₀₆ %	Age ±1σ (Ma) 206/238	207/206	Corr.
	<u>sl. 3-1</u>	<u>16:27</u>	<u>6.61</u>	<u>10.6</u>	<u>1053</u>	<u>-</u>	<u>-ve</u>	<u>-</u>	<u>-</u>	<u>571</u>	<u>-</u>
	<u>sl. 3-2</u>	<u>16:45</u>	<u>6.60</u>	<u>10.9</u>	<u>1109</u>	<u>225</u>	<u>0.8</u>	<u>0.9</u>	<u>577</u>	<u>572</u>	<u>208</u>
	<u>uA. 2-1</u>	<u>17:05</u>	<u>7.98</u>	<u>9.3</u>	<u>22.9</u>	<u>450</u>	<u>274</u>	<u>1.28</u>	<u>3227 ± 5</u>	<u>2593 ± 4</u>	<u>204</u>
	<u>uA. 6-1</u>	<u>17:24</u>	<u>7.32</u>	<u>10.5</u>	<u>6177</u>	<u>132</u>	<u>40.5</u>	<u>0.61</u>	<u>3350 ± 9</u>	<u>2686 ± 6</u>	<u>204</u>
	<u>sl. 3-3</u>	<u>17:34</u>	<u>6.57</u>	<u>11.1</u>	<u>1092</u>	<u>220</u>	<u>1.0</u>	<u>0.08</u>	<u>577 ± 1</u>	<u>551 ± 36</u>	<u>204</u>
	<u>uA. 9-1</u>	<u>18:01</u>	<u>7.14</u>	<u>8.3</u>	<u>38.8</u>	<u>587</u>	<u>218</u>	<u>0.39</u>	<u>5367 ± 7</u>	<u>2637 ± 2</u>	<u>204</u>
	<u>uA 7-1</u>	<u>18:19</u>	<u>7.98</u>	<u>9.4</u>	<u>29.4</u>	<u>396</u>	<u>169</u>	<u>0.60</u>	<u>4292 ± 6</u>	<u>2819 ± 3</u>	<u>204</u>
<u>5% 20, u0</u>	<u>uA. 8-2</u>	<u>18:37</u>	<u>6.37</u>	<u>11.6</u>	<u>2101</u>	<u>113</u>	<u>17.8</u>	<u>0.59</u>	<u>2007 ± 7</u>	<u>2674 ± 11</u>	<u>204</u>
	<u>sl 3-4</u>	<u>18:55</u>	<u>6.46</u>	<u>11.1</u>	<u>1075</u>	<u>233</u>	<u>0.2</u>	<u>0.02</u>	<u>564 ± 1</u>	<u>520 ± 24</u>	<u>208</u>
<u>last scan</u>	<u>(core) uA. 4-1</u>	<u>19:13</u>	<u>7.59</u>	<u>9.4</u>	<u>63.8</u>	<u>1117</u>	<u>89.2</u>	<u>0.13</u>	<u>3927 ± 4</u>	<u>2738 ± 2</u>	<u>204</u>
	<u>uA. 3-1</u>	<u>19:30</u>	<u>7.25</u>	<u>10.1</u>	<u>6678</u>	<u>169</u>	<u>51.9</u>	<u>0.69</u>	<u>3081 ± 8</u>	<u>2623 ± 6</u>	<u>204</u>

last 4 unpaired PD file -

Rejection over-ride	Sample/ Std ID	Time - printout	UO/U	196 cps (U)	206 cps	U ppm	204Pb ppb	f ₂₀₆ %	Age ±1σ (Ma) 206/238	207/206	Corr.
	uA.12-1	19:49	8.67	7.8	44.9	396	498	1.23	5630 ± 8	2616 ± 3	204
	sl. 4-1	20:06	6.70	10.3	1077	216	1.8	0.01	588 ± 1	545 ± 24	208
	uA.10-1	20:24	7.73	10.0	19.8	251	24.9	0.13	4586 ± 8	2695 ± 3	204
	uA.13-1	20:43	6.94	12.0	2674	164	25.8	0.88	1383 ± 3	2711 ± 10	204
	Core uA.14-1	21:00	6.48	10.8	2305	98.7	8.9	0.26	2476 ± 9	2708 ± 9	204
	sl 4-2	21:18	6.58	10.8	1046	217	-1.6	-	573 ± 1	548 ± 23	-
	uB.11-1	21:36	7.69	8.6	7795	179	10.3	0.12	3316 ± 8	2643 ± 5	204
	uB.12-1	21:53	7.47	8.8	2827	67.2	28.3	0.84	3358 ± 14	2622 ± 11	204
	uB.12-2	22:10	7.16	9.2	3477	89.6	32.3	0.72	3356 ± 12	2630 ± 9	204
	uB.14-1	22:28	8.01	8.0	13.1	345	56.2	0.41	2872 ± 5	2351 ± 5	204
	sl 4-3	22:47	6.52	10.8	1039	221	2.7	0.23	572 ± 1	547 ± 47	204
	uB.15-1	23:05	7.23	8.9	2387	63.0	33.6	1.10	3270 ± 14	2643 ± 13	204
	15-2 uB. 15-1	23:23	6.46	11.6	6088	177	265.2	3.16	3163 ± 8	2633 ± 11	204
	3rd 206, 207 uB.16a-1	23:40	7.14	9.2	3944	106	107	2.11	2238 ± 11	2609 ± 12	204
	uB.16a-2 sl 4-4	23:57	7.85	8.1	5168	114	57	0.97	3425 ± 11	2644 ± 8	204
	sl 4-4	24:15	6.56	10.6	1019	219	0.8	0.04	566 ± 1	567 ± 24	208
	uB.16b-1	24:32	7.22	9.2	2789	70.1	32.7	0.94	3335 ± 14	2647 ± 11	204
	uB.21-1	24:50	7.25	8.0	2869	73.0	20.8	0.57	3355 ± 13	2661 ± 10	204
	uB.21-2	1:07	7.18	8.5	3447	97.3	33.9	0.71	3289 ± 12	2643 ± 9	204
	sl 4-5 uB.32-1	1:25	7.18	8.0	3767	102	62.8	1.28	3252 ± 11	2636 ± 10	204
	uB.27b-1	1:43	6.77	9.4	1931	57.7	112	3.92	3247 ± 16	2639 ± 22	204
	sl 4-5	2:01	6.56	10.7	1024	221	-1.6	0.03	561 ± 1	617 ± 24	208
	uB.27a-1	2:25	6.97	9.8	2911	107	26.8	0.72	2539 ± 9	2502 ± 11	204
	uB.28-1	2:42	8.05	7.6	13.7	332	29.7	0.20	3180 ± 6	2471 ± 4	204
	ThO _{1,516} uB.29-1	2:59	8.03	7.3	2475	775	55.5	2.01	2668 ± 11	2171 ± 21	204

A

5th 207,
ThO_{1,40}

B

3rd 206,
207

Temp. Power Failure → slight ↓ 1°.

Mount/sample No: 98-18

Date: 26/5/98

Page No: 3

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.
	uB.30-1	3:18	6.31	11.5	507	15.8	99.2	13.1	2932 ± 34	2598 ± 86	204
	uB.31-1	3:35	7.68	8.1	3581	106	270	6.63	2718 ± 11	2231 ± 27	204
	uB.31-1 uB.31-1	3:53	7.28	8.5	3502	92.8	29.2	0.63	3357 ± 12	2636 ± 9	204
	sl.1-1	4:12	6.42	11.3	1049	226	0.1	0.008	569 ± 1	564 ± 26	204
	uB.13-1	4:30	7.18	9.3	2616	66.9	42.4	1.29	3304 ± 14	2634 ± 13	204
	uB.9-1	4:48	7.18	8.9	3829	122	451	9.74	2659 ± 10	2622 ± 34	204 <i>stuck!</i>
	uB.7-1	5:06	6.55	10.0	2198	65.6	210	6.19	3273 ± 16	2683 ± 25	204
	uB.6-1	5:24	7.94	7.8	6987	153	42.1	0.53	3465 ± 9	2643 ± 6	204
	uB.5-1	5:42	7.75	8.5	863	13.4	278	28.8	3443 ± 46	2647 ± 112	204
	uB.4-1	6:00	7.48	7.4	3809	110	37.2	0.69	3303 ± 12	2624 ± 9	204
	sl.1-2	6:18	6.54	10.2	961	226	0.0	0.04	549 ± 1	545 ± 25	204
	uB.2-1	6:36	8.09	7.6	6232	148	10.7	0.16	3224 ± 9	2574 ± 6	204
	uB.5b-1	6:55	7.07	8.6	4090	156	19.0	0.33	2671 ± 8	2484 ± 8	204
	uC.32-1	7:14	6.44	9.7	1059	46.1	0.7	0.04	2723 ± 15	2709 ± 12	204
	uC.33-1	7:32	6.58	10.0	3831	149	0.7	0.01	2760 ± 8	2698 ± 6	204
	uC.34-1	7:52	6.37	10.2	2190	90.9	0.9	0.02	2794 ± 11	2716 ± 8	204
	uC.11-1	8:09	6.64	9.3	4055	170	8.3	0.13	2693 ± 8	2662 ± 6	204
	sl.2-1	8:27	6.54	9.7	944	224	0.1	0.009	567 ± 1	643 ± 25	204
	uC.10-1	8:44	6.79	9.8	1757	64.3	2.8	0.11	2731 ± 12	2694 ± 10	204

B

let scan
and the 5,6
very nonlinear

C