

UWA DATA LOG: SHRIMP ZIRCON U-Pb

Date: 27/2/98 UWA Mount No.: 97-40 Whose sample?: ALSO Operator(s): McN + AR

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 = 0.040⁵ amu Dead-time =32..... nanosecs

actual 196-204 =8.169..... actual 204-bkg =0.045..... expected resolution = >4200

actual 206-207 =1.000..... actual 206-208 =1.999..... actual resolution =4875.....

Primary =3.7 nA PESABM =59 pA actual Primary : PESABM (≈ 50:1) =63.....

Raster time (mins):2..... Raster aperture (microns):120..... No. of scans:5.....

Comments: A = 9796 9125 C = " 9202 *sl. 1-6 very strange. affected by nearby bubble??*

* adjusted with Matching v 2 instead of Duo v 2

206-207-208 offsets drifted by 3 units and 4 units by the end of analyses.

Rejection over-ride	Sample/ Std ID	Time - printout	UO/U	196 K cps	206 cps	U ppm	204Pb ppb	f ₂₀₆ %	Age ±1σ (Ma)		Corr.
									206/238	207/206	
	<u>sl. 4-1</u>	<u>10:01</u>	<u>6.20</u>	<u>21.3</u>	<u>2154</u>	<u>220</u>	<u>0.9</u>	<u>.05</u>	<u>572±1</u>	<u>570±18</u>	<u>208</u>
	<u>A. 1-1</u>	<u>10:22</u>	<u>6.28</u>	<u>22.5</u>	<u>21K</u>	<u>348</u>	<u>87.8</u>	<u>.67</u>	<u>2700±4</u>	<u>2625±4</u>	<u>204</u>
	<u>A. 3-1</u>	<u>10:37</u>	<u>5.80</u>	<u>22.6</u>	<u>12K</u>	<u>255</u>	<u>21.2</u>	<u>.22</u>	<u>2736±5</u>	<u>2622±4</u>	<u>"</u>
	<u>sl. 4-2</u>	<u>10:54</u>	<u>6.33</u>	<u>21.6</u>	<u>2449</u>	<u>218</u>	<u>1.9</u>	<u>.05</u>	<u>605±1</u>	<u>551±17</u>	<u>208</u>
	<u>A. 4-1</u>	<u>11:15</u>	<u>6.18</u>	<u>22.4</u>	<u>12.8K</u>	<u>238</u>	<u>40.4</u>	<u>.48</u>	<u>2566±5</u>	<u>2646±5</u>	<u>204</u>
	<u>A. 5-1</u>	<u>11:32</u>	<u>5.66</u>	<u>19.3</u>	<u>9.1K</u>	<u>225</u>	<u>4.7</u>	<u>.05</u>	<u>2947±6</u>	<u>2606±5</u>	<u>"</u>
	<u>A. 41-1</u>	<u>11:53</u>	<u>6.42</u>	<u>19.7</u>	<u>24.8K</u>	<u>431</u>	<u>8.1</u>	<u>.05</u>	<u>2730±4</u>	<u>2591±3</u>	<u>"</u>
	<u>sl. 1-1</u>	<u>12:09</u>	<u>6.19</u>	<u>22.9</u>	<u>2490</u>	<u>227</u>	<u>1.6</u>	<u>.04</u>	<u>602±1</u>	<u>601±17</u>	<u>208</u>
	<u>A. 7-1</u>	<u>12:26</u>	<u>5.89</u>	<u>20.6</u>	<u>15.1K</u>	<u>325</u>	<u>25.7</u>	<u>.20</u>	<u>2779±5</u>	<u>2623±4</u>	<u>204</u>
	<u>A. B-1</u>	<u>12:48</u>	<u>6.17</u>	<u>22.3</u>	<u>14.1K</u>	<u>251</u>	<u>22.6</u>	<u>.24</u>	<u>2696±5</u>	<u>2604±4</u>	<u>"</u>
	<u>A. 42-1</u>	<u>13:03</u>	<u>6.22</u>	<u>22.2</u>	<u>15.1K</u>	<u>256</u>	<u>87.0</u>	<u>.88</u>	<u>2737±5</u>	<u>2621±5</u>	<u>"</u>

Dud analysis? OMIT?

Spot partly in epoxy →

Very non-linear

" →

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Rejection over-ride	Sample/ Std ID	Time - printout	UO/U Kcps	196 cps	206 cps	U ppm	204Pb ppb	f ₂₀₆ %	Age ±1σ (Ma) 206/238 207/206	Corr.
	A. 43 1-1	13:32	6.59	21.1	36K	653	11.6	.06	2345 ± 2 2502 ± 2	204
	s/l. 1-2	13:48	6.70	12.3 12.3	1617	195	3.1	-.27	660 ± 1 240 ± 43	"
	s/l. 1-3	14:08	5.89	22.8	2252	242	1.9	.06	601 ± 1 568 ± 18	208
	A. 43-1	14:25	6.11	24.8	32K	531	12.2	.06	2703 ± 3 2621 ± 2	204
	A. 44-1	14:40	6.00	22.6	18.7K	352	2.3	.02	2757 ± 4 2630 ± 3	"
	A. 11-1	14:56	6.04	25.9	21.7K	734	54.5 54.5	.45 .44	1444 ± 1 2168	204
	A. 14-1	15:16	6.04	24.3	11.5K	194	2.6	.03	2779 2630	204
	A. 15-1	15:33	5.87 5.87	22.8	11.2K	229	3.7	.43	2686 2611	204
	A. 45-1	15:50	5.97	22.9	10.8K	202	2.8	.04	2758 2607	204
	s/l. 1-4	16:08	6.05	22.9	2371	231	0.3	.04	604 596	208
	A. 16-1	16:26	6.22	22.1	22.3K	379	33	.23	2749 2611	204
	A. 18 18-1	16:47	6.24	22.5	19.9K	344	48	.38	2639 2621	204
	A. 47-1	17:05	6.08	23.4	5290	93	3.7	.10	2730 2624	204
	A. 21-1	17:49	6.06	23.1	18.2K	322	6.7	.05	2738 2611	204
	A. 22-1	18:06	5.91	23.1	16.5K	317	4.1	.03	2773 2618	204
	s/l. 1-5	18:23	6.19	22.5	2425	223	0.7	.03	604 540	208
	A. 48-1	18:41	6.02	23.0	18.9K	345	4.8	.04	2760 2620	204
	A. 49-1	18:58	6.01	23.5	13.1K	238	11.9	.13	2730 2625	204
	A. 25-1	19:16	6.15	23.1	26.0K	451	3.5	.21	2696 2606	204
	A. 50-1	19:33	6.05	22.5	15.7K	285	80.0	.72	2758 2627	204
	A. 51-1	19:53	6.49	20.8	10.9K	174	12.7 12.7	.19	2725 2623	204
	A. 52-1	20:12	6.22	22.4	28.7K	537	3.5	.19	2518 2577	204
	s/l. 1-6	20:29	6.12	22.6	3221	231	2.0	.12	791 746	208
	A. 53-1	20:52	5.87	19.9	20.3K	578	21.7	.12	2305 2501	204
	A. 54-1	21:09	6.08	19.2	18.8K	468	60	.39	2403 2554	204

1° dropped
badly → OMIT →

Look
at this
one!



Very
nonlinear

1° dropping

Spot partly
on epoxy

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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.

another good one!

 - Very near normal

	A55-1	21:30	5.75	24.4K	17.2K	352	54.4	.41	2701	2646	204
	A56-1	21:49	6.16	22.5	23.6	413	26.4	.17	2710	2620	204
	sl.1-7	22:06	6.01	23.1	2288	230	1.0	.02	592	596	208
	A57-1	22:38	6.12	23.5	5090	88	12.1	.36	2685	2658	204
	A58-1	23:06	6.00	23.3	20.0K	373	5.3	.04	2691	2600	204
	A59-1	23:24	6.10	23.1	20.4K	354	29.3	2.14	2703	2610	204
	A60-1	23:42	6.09	23.8	33K	539	26.9	.12	2827	2627	204
	A61-1	00:17	5.93	23.5	18K	357	48.6	.23	2627	2616	204
	sl.2-1	00:37	6.10	23.8	2387	220	1.5	.12	595	549	204
	A62-1	00:59	6.17	25.3	21.5K	369	31.3	.25	2493	2554	204
	A63-1	1:18	5.90	20.6	20.1K	440	11.7	.07	2733	2609	204
	A64-1	1:52	6.12	23.7	25.1K	423	3.7	.02	2731	2629	204
	A65-1	2:10	6.32	21.3	185K	316	4.4	.04	2720	2623	204
	A66-1	2:29	6.04	23.1	28K	509	61.8	.32	2711	2612	204
	sl.2-2	2:51	6.03	24.6	2369	222	1.6	.26	592	610	208
	A67-1	3:18	6.55	19.4	13.2K	219	7.1	.08	2739	2624	204
	A67-1	3:35	6.04	22.0	25K	488	29.2	.17	2649	2601	204
	A68-1	3:51	5.90	24.2	18K	351	19.0	.15	2575	2594	204
	sl.2-3	4:09	6.12	23.3	2353	220	1.3	.03	597	539	208
	A69-1	4:27	6.23	22.7	11.7K	195	55	.73	2721	2640	204
	C37-1	4:47	6.13	23.7	3718	63	432	1.8	2664	2642	204
	C38-1	5:04	5.98	24.0	2529	45	0.9	.05	2772	2662	204
	sl.3-1	5:23	6.10	24.0	2522	230	0	.01	601	594	208
	C39-1	5:39	5.97	24.8	392	69	15	.56	2725	2681	204
	C40-1	5:56	5.93	24.6	4597	95	26.2	.82	2437	2654	204

Pop A ↑
 Pop C ↓

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Rejection over-ride	Sample/ Std ID	Time - printout	UO/U	196 K cps	206 cps	U ppm	204Pb ppb	f206 %	Age ±1σ (Ma)		Corr.
									206/238	207/206	
	SI-3-2										
	C41-1	6:12	6.17	23.2	2577	233	0.8	.02	602	604	208
	C41-1	6:41	5.92	23.7	3346	80	79	3.2	2182	2649	204
	C42-1	7:08	6.21	23.4	7823	125	13	.27	2764	2650	204
	SI-3-3	7:24	6.14	23.4	2557	234	1.1	.06	598	587	208
	C43-1	7:41	6.24	23.2	4751	80	106	3.6	2577	2661	204
	C44-1	8:04	5.89	24.1	3225	593	80	3.4	2708	2664	204
	SI-5-1	8:20	6.06	23.6	2455	234	0.6	.05	599	619	204
	C45-1										
	C45-1	8:48	5.94	24.3	4239	78	4.4	.15	2708	2662	204
	SI-5-2	9:05	6.19	23.6	2490	221	8.0	.65	596	562	208
	C46-1	9:21	5.72	22.5	2178	47	0.1	.00	2791	2649	204