

**UWA DATA LOG: SHRIMP ZIRCON U-Pb**

Date: 19/9/97      UWA Mount No. 97-25      Whose sample? Stu      Operator(s) McW + Stu

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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  
~~Pre-2000~~      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 = 8.168      actual 204-bkg = 0.040      expected resolution = >4200  
 actual 206-207 = 1.001      actual 206-208 = 2.000      actual resolution = 4500

Primary = 4.8 nA    PESABM = 61 pA      actual Primary : PESABM (= 50:1) = 78.7  
 Raster time (mins): 100      Raster aperture (microns): 100      No. of scans: 5

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Comments: B = Sample KU-2

Rejection over-ride	Sample/ Std ID	Time - printout	UO/U	196 Kcps	206 cps	U ppm	204Pb ppb	f206 %	Age ±1σ (Ma)		Corr.
									206/238	207/206	
	sl. 1-1	10:06	5.97	20.6	2346	220	0.4	.03	572±1	556±21	204
	sl. 1-2	10:21	6.05	19.9	2342	222	1.7	.15	561±1	527±29	"
	B. 1-1	10:36	6.00	20.9	1318	22.1	1.1	.14	2625±15	2661±13	"
	B. 2-1	10:52	6.11	21.9	2343	40.2	2.2	.17	2357±10	2670±10	"
	B. 3-1	11:06	5.98	20.7	1975	33.5	2.2	.18	2638±12	2657±11	"
	sl. 1-3	11:20	6.01	20.4	2385	222	-0.1	.01	566±1	600±17	208
	B. 4-1	11:34	6.18	21.3	2367	41.7	5.0	.38	2284±9	2669±10	204
	B. 5-1	11:49	6.20	20.6	3258	57.5	11.4	.62	2313±8	2663±9	"
	B. 6-1	12:03	5.97	21.3	1981	34.2	3.4	.28	2546±12	2674±11	"
	B. 7-1	12:16	5.97	20.5	2386	41.9	1.5	.10	2604±11	2679±9	"
	B. 8-1	12:31	6.05	21.5	2648	49.1	7.3	.47	2299±9	2682±10	"

Note: Large Zircons ~ 2660 Ma  
 Smaller euhedral Zircons ~ 2680 Ma

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Rejection over-ride	Sample/ Std ID	Time - printout	UO/U Kcps	196 cps	206 cps	U ppm	<sup>204</sup> Pb ppb	f <sup>206</sup> %	Age ± 1σ (Ma)		Corr.
									206/238	207/206	
	<u>Sl. 1-4</u>	<u>12:48</u>	<u>5.88</u>	<u>22.3</u>	<u>2448</u>	<u>220</u>	<u>0.2</u>	<u>-02</u>	<u>578 ± 1</u>	<u>630 ± 17</u>	<u>208</u>
	B. 9-1	13:03	6.01	22.8	2475	41.5	10	-72	2417 ± 9	2685 ± 12	204
	B. 10-1	13:21	5.85	23.8	2839	51.4	7.7	.46	2371 ± 9	2682 ± 10	204
	B. 11-1	13:35	5.86	22.9	1919	29	-ve	—	2544 ± 14	2691 ± 9	—
	B. 12-1	13:53	5.86	23.2	2401	38.2	2.7	.18	2682 ± 11	2680 ± 9	204
	B. 13-1	14:08	5.86	23.1	3264	51	0.3	.02	2755 ± 10	2673 ± 7	204
	<u>Sl. 2-1</u>	<u>14:24</u>	<u>5.81</u>	<u>23.2</u>	<u>2585</u>	<u>226</u>	<u>0.3</u>	<u>—</u>	<u>596 ± 1</u>	<u>563 ± 16</u>	<u>—</u>
	B. 14-1	14:40	5.91	22.5	2227	35.4	0.1	.01	2696 ± 12	2665 ± 9	204
	B. 15-1	14:56	5.85	22.0	1623	26.3	0.3	.03	2770 ± 14	2671 ± 11	204
	B. 16-1	15:10	5.89	21.9	2367	39	0.7	-05	2690 ± 12	2682 ± 9	204
	B. 17-1	15:28	5.91	21.9	2073	34	0.4	.04	2704 ± 12	2681 ± 9	204
	B. 18-1	15:45	5.89	22.2	1838	35	4.6	.41	2356 ± 11	2711 ± 13	204
	<u>Sl. 2-2</u>	<u>16:04</u>	<u>5.73</u>	<u>19.8</u>	<u>2178</u>	<u>243</u>	<u>-0.6</u>	<u>—</u>	<u>577 ± 1</u>	<u>584 ± 17</u>	<u>—</u>
	B. 19-1	16:21	5.96	19.8	1394	25.2	1.2	.13	2627 ± 15	2689 ± 13	204
	B. 20-1	16:38	6.30	19.5	1758	28	-0.2	—	2557 ± 13	2673 ± 9	—
	B. 21-1	16:55	6.24	18.4	3091	57	4.7	.25	2405 ± 9	2663 ± 8	204
	B. 22-1	<del>17</del> :11	6.30	17.5	2816	51	1.8	.10	2494 ± 10	2679 ± 8	204
	B. 23-1	17:27	6.15	18.1	1957	52	2.7	.21	1861 ± 7	2673 ± 10	204
	B. 24-1	17:44	6.26	17.8	1418	25	0.0	<0.01	2562 ± 14	2718 ± 10	204
	<u>Sl. 3-1</u>	<u>18:02</u>	<u>6.00</u>	<u>18.5</u>	<u>2177</u>	<u>227</u>	<u>1.1</u>	<u>-09</u>	<u>563 ± 1</u>	<u>522 ± 25</u>	<u>204</u>
	B. 25-1	18:17	6.15	18.2	2203	40	0.4	-03	2597 ± 12	2657 ± 13	204
	B. 26-1	18:33	6.49	17.5	1787	30	1.0	0.1	2472 ± 12	2688 ± 11	204
	B. 27-1	18:49	6.45	16.9	2815	61	24.2	1.4	2071 ± 8	2613 ± 13	204
	B. 28-1	19:04	6.24	17.7	1529	28	0.9	.10	2544 ± 13	2680 ± 12	204
	B. 29-1	19:20	6.24	17.0	2269	44	3.2	.20	2463 ± 11	2699 ± 10	204

Mount/sample No: 97/25 (B)  
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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.
	<del>SI. 3-2</del>	<del>19:54</del>	<del>6.21</del>	<del>17.1</del>	<del>2316</del>	<del>45</del>	<del>1.3</del>	<del>0.8</del>	<del>545 ± 1</del>	<del>579 ± 17</del>	<del>—</del>
	B. 30-1	19:54	6.21	17.1	2316	45	1.3	0.08	2508 ± 11	2663 ± 9	204
	B. 31-1	20:19	6.32	16.2	1676	34	3.1	2.27	2409 ± 12	2666 ± 12	204
	B. 32-1	20:34	6.56	16.1	2739	59	10	.60	2096 ± 8	2681 ± 10	204
	B. 33-1	20:49	6.46	16.6	2707	55	9.3	.56	2209 ± 8	2670 ± 10	204
	B. 34-1	21:04	6.45	16.2	1939	36	1.0	.08	2486 ± 12	2671 ± 11	204
	<del>SI. 3-3</del>	<del>21:20</del>	<del>6.19</del>	<del>15.8</del>	<del>1912</del>	<del>219</del>	<del>0.4</del>	<del>0.4</del>	<del>540 ± 1</del>	<del>569 ± 23</del>	<del>204</del>
	B. 35-1	21:35	6.30	15.7	2207	44	1.2	.08	2527 ± 11	2690 ± 9	204
	B. 36-1	21:51	6.77	15.0	2294	63	9.9	.73	1650 ± 6	2716 ± 11	204
	B. 37-1	22:05	6.21	15.7	1881	40	3.6	.26	2495 ± 12	2713 ± 11	204
	B. 37-2	22:21	6.33	16.1	1762	34	0.5	.05	2505 ± 12	2659 ± 10	204
	B. 38-2	22:37	6.23	16.8	1594	32	4.3	.40	2446 ± 13	2668 ± 13	204
	<del>SI. 3-4</del>	<del>22:54</del>	<del>6.07</del>	<del>19.0</del>	<del>2280</del>	<del>218</del>	<del>-1.1</del>	<del>—</del>	<del>574 ± 1</del>	<del>570 ± 17</del>	<del>—</del>
	B. 39-1	23:10	5.79	22.5	1857	31	2.7	.23	2765 ± 14	2659 ± 12	204
	B. 40-1	23:27	5.99	22.0	1506	25	3.0	.33	2535 ± 13	2694 ± 13	204
	B. 41-1	23:43	5.95	21.9	2733	46	4.1	.25	2564 ± 10	2694 ± 9	204
	B. 42-1	23:59	5.86	21.2	3017	52	2.4	.12	2718 ± 10	2673 ± 8	204
	B. 43-1	0:13	6.07	20.9	3017	52	3.9	.22	2460 ± 9	2663 ± 9	204
	<del>SI. 3-5</del>	<del>0:31</del>	<del>5.78</del>	<del>21.8</del>	<del>2440</del>	<del>233</del>	<del>0.6</del>	<del>0.4</del>	<del>591 ± 1</del>	<del>552 ± 22</del>	<del>204</del>
	B. 44-1	0:46	6.11	19.2	2634	46	1.2	.07	2577 ± 10	2694 ± 9	204
	B. 45-1	1:01	5.98	19.9	1883	32	0.9	.07	2692 ± 13	2653 ± 11	204
	B. 45-2	1:17	5.84	23.1	1812	29	-0.3	—	2756 ± 14	2675 ± 9	—
	B. 46-1	1:33	6.01	21.3	2612	44	4.3	.27	2553 ± 10	2658 ± 9	204
	B. 47-1	1:50	5.92	21.2	2837	48	2.4	.14	2669 ± 10	2677 ± 8	204
	B. 48-1	2:05	5.82	21.3	2145	37	0.5	.04	2755 ± 13	2681 ± 9	204

Apparently the same zone!

Mount/sample No: .....

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Rejection over-ride	Sample/ Std ID	Time - printout	UO/U	196 cps	206 cps	U ppm	204Pb ppb	f206 %	Age $\pm 1\sigma$ (Ma)		Corr.
									206/238	207/206	
	SI.3-6	2:22	6.17	20.0	2434	209	1.3	—	573 $\pm$ 1	559 $\pm$ 16	—
	B.49-1	2:48	5.93	21.0	2096	39	3.4	.24	2617 $\pm$ 12	2679 $\pm$ 11	204
	B.50-1	3:03	5.98	20.8	1752	29	2.1	.19	2680 $\pm$ 13	2660 $\pm$ 11	204
	B.51-1	3:20	5.86	21.3	2661	46	1.2	-.07	2695 $\pm$ 11	2667 $\pm$ 9	204
	B.52-1	3:36	6.12	20.1	3218	60	5.8	.30	2360 $\pm$ 8	2671 $\pm$ 9	204
	B.53-1	3:53	5.96	18.5	848	16	0.1	.02	2726 $\pm$ 20	2652 $\pm$ 15	204
	B.53-2	4:11	5.88	18.9	969	19	-0.2	—	2609 $\pm$ 17	2673 $\pm$ 13	—
	SI.3-7	4:32	5.90	19.6	2251	224	-0.2	—	587 $\pm$ 1	566 $\pm$ 17	—
	B.54-1	4:48	6.28	18.8	2137	41	3.9	-.31	2239 $\pm$ 9	2700 $\pm$ 11	204
	B.55-1	5:03	6.07	19.4	2240	38	0.0	—	2681 $\pm$ 12	2661 $\pm$ 8	—
	B.56-1	5:20	6.81	19.7	3159	85	7.2	.49	1364 $\pm$ 4	2703 $\pm$ 9	204
	B.57-1	5:35	6.25	19.5	1050	17	-0.5	—	2627 $\pm$ 7	2674 $\pm$ 12	—
	B.58-1	5:50	6.30	18.7	3529	57	1.9	.09	2596 $\pm$ 9	2672 $\pm$ 8	204
	B.59-1	6:08	6.00	18.6	2450	45	1.4	.08	2696 $\pm$ 12	2674 $\pm$ 9	204
	SI.3-8	6:28	5.82	19.3	2194	231	0.3	.02	597 $\pm$ 1	621 $\pm$ 17	<del>204</del>
	B.60-1	6:43	5.97	19.5	2963	52	0.7	-.03	2736 $\pm$ 11	2684 $\pm$ 8	204
	B.61-1	7:04	5.97	19.0	3427	64	3.3	.14	2622 $\pm$ 9	2664 $\pm$ 7	204
	B.62-1	7:19	6.51	17.4	2404	61	11.2	-.81	1717 $\pm$ 6	2697 $\pm$ 10	204
	B.63-1	7:34	6.13	18.5	1463	25	-0.4	—	2695 $\pm$ 15	2680 $\pm$ 10	—
	B.64-1	7:49	5.98	18.8	2339	42	0.1	.01	2735 $\pm$ 12	2683 $\pm$ 9	204
	B.65-1	8:06	5.89	17.4	1974	39	2.4	-.18	2582 $\pm$ 12	2668 $\pm$ 10	204
	B.66-1	8:20	6.01	18.7	1932	34	1.6	-.12	2733 $\pm$ 13	2663 $\pm$ 10	204
	SI.4-1	8:43	6.06	19.6	2268	214	1.3	-.12	569 $\pm$ 1	499 $\pm$ 23	204