

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

Date	UWA Mount No.	Whose sample?	Operator(s)							
6/6/98	98-18	McN	McN							
Indicate any change to the following:										
		196	204	bkg	206	207	208	238	248	254
<b>Precambrian</b>	Count time (secs):	2	10	10	10	30/10	10	5	5	2
<b>Phanerozoic*</b>	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 = 0.046		expected resolution = >4200						
actual 206-207 = 1.000		actual 206-208 = 2.000		actual resolution = 4774						
Primary = 3.6 nA		PESABM = 43 pA		actual Primary : PESABM (= 50:1) = 84						
Raster time (mins): 1		Raster aperture (microns): 120		No. of scans: 6						

Comments: C = B000-2  
 B = PAR-12 ~~AGM~~ (AGM)  
 AK = AK zircon std (new one: 6/98) → did one analysis

Rejection over-ride	Sample/Std ID	Time - printout	UO/U Kcps	196 cps	206 cps	U ppm	204Pb ppb	f <sub>206</sub> %	Age ±1σ (Ma)		196-204 Corr. 206-207 206-208
									206/238	207/206	
	sl. 1-1	11:17	6.30	13.4	1238	220	-0.2	/	572±1	541±21	8.168 1.000 2.000
	sl. 1-2	11:34	6.23	13.8	1281	222	1.5	.13	590±1	530±31	-"-
	C. 1-1	11:54	6.24	13.6	3.2K	93.5	-0.5	/	2808±9	2692±6	-"-
	C. 1-2	12:10	6.29	13.9	2.8K	81.6	-0.5	/	2822±9	2700±7	-"-
	sl. 1-3	12:27	6.37	14.3	1442	215	-1.3	.01	616±1	599±20	-"-
	sl. 1-4	12:44	6.23	14.2	1322	213	-1.2	.04	618±1	628±21	-"-
	C. 3-1	13:01	6.44	14.2	10.4K	258	3.9	.04	2973±5	2702±4	-"-
	C. 4-1	13:18	6.43	14.7	4.0K	95.5	1.4	.03	3001±9	2719±6	-"-
	C. 4-2	13:34	6.31	14.9	4.9K	131	4.3	.08	2839±7	2695±6	-"-
	sl. 1-5	13:51	6.27	14.5	1471	218	-1.3	/	641±1	545±19	-"-
	C. 5-1	14:08	6.39	14.4	3.3K	86.1	-1.1	.03	2873±9	2736±7	-"-

Rejection over-ride	Sample/ Std ID	Time - printout	UO/U	196 K cps	206 cps	U ppm	204Pb ppb	f <sub>206</sub> %	Age ±1σ (Ma) 206/238	207/206	196-204 Corr. <del>206-207</del> 206-208
	C.6-1	14:25	6.56	13.5	5.4K	135	0.9	.02	2950±7	2705±5	8.168 1.000 2.000
	sl.2-1	14:43	6.51	14.1	1472	205	0.4	.03	628±1	589±23	- " -
	<del>C.7a-1</del>	15:00	6.53	14.0	2.0K	47.9	0.5	.02	2980±12	2707±9	- " -
1st scan	C.8-1	15:17	6.40	14.9	1.6K	40.2	1.2	.07	2878±13	2688±10	- " -
	sl.2-2	————	————	1°	dropped during analysis → delete						
	<del>C.8-2</del>	————	————	————	Primary came up with "ERRORS"; HV off & back on; returned!!						
	sl.2-3	16:01	6.30	13.8	1345	213	-2.3	/	621±1	540±20	- " -
	C.8-2	16:18	6.06	14.0	1402	42.8	-0.5	/	2974±14	2714±10	- " -
Many ORTEC rejections!	C.9-1	16:35	6.44	14.7	2.3K	63.1	1.6	.07	2628±9	2672±8	- " -
- " -	(?) 1st scan C.9-2	16:52	6.23	13.8	3.4K	115	0.9	.02	2595±7	2726±6	- " -
ORTEC OK!	sl.3-1	17:11	6.28	13.5	1307	220	-0.2	/	603±1	602±20	- " -
	C.10-1	17:30	6.45	13.8	3.0K	76.0	1.6	.05	2971±10	2699±7	- " -
last scan	C.11-1	17:47	6.49	14.1	3.3K	82.5	-0.5	.05	2946±9	2722±7	- " -
1° dropped during analysis. → returned 1°	C.12-1	————	————	————	not reliable						
	sl.3-2	18:27	6.51	13.3	1437	202	1.3	.11	654±1	515±37	- " -
	C.37-1	18:45	6.31	13.4	6.6K	193	4.8	.06	2880±6	2706±5	- " -
non linear	C.37-2	19:01	6.10	13.8	4.0K	130	1.7	.03	2790±7	2705±6	- " -
	C.13-1	19:18	6.31	14.7	3.4K	80.9	0.2	.004	3127±10	2711±6	- " -
	sl.3-3	19:35	6.41	14.2	1491	210	-0.8	.007	644±1	568±20	- " -
1° dropped during analysis → DmaY!!	C.13-2	————	————	————	not reliable						
	C.15-1	20:12	6.20	14.7	4.7K	127	1.6	.03	2993±8	2691±6	- " -
Ditto	C.16-1	————	————	————	not reliable						
	C.38-1	20:48	6.32	13.6	1.7K	48.3	0.9	.04	2884±12	2708±10	- " -
	sl.3-4	21:04	6.29	13.6	1.4K	227	-1.6	.01	628±1	572±20	- " -
	C.17-1	21:22	6.55	13.4	4.7K	113	1.5	.03	3076±8	2706±5	- " -

\* 1<sup>o</sup> dropped off during analysis; Dms 1+2 needed adjusting

Mount/sample No: 98-18 Date: 6/6/98 Page No: 3

Rejection over-ride	Sample/ Std ID	Time - printout	UO/U	196 Kcps	206 cps	U ppm	204Pb ppb	f206 %	Age ±1σ (Ma) 206/238	Age ±1σ (Ma) 207/206	196-204 Corr. 206-207 206-208
	<i>Last scan</i> C.17-2	21:39	5.96	12.2	5.0K	161	1.4	.02	3289±9	2719±5	8.167 1.000 2.000
	C.19-1	21:57	6.40	13.9	4.7K	124	2.5	.05	2929±8	2703±5	---
	C.39-1	22:13	6.35	13.6	3.6K	101	1.3	.03	2909±9	2697±6	---
* (raster) →	<i>sl. 3-5</i>	<i>22:32</i>	<i>6.31</i>	<i>13.1</i>	<i>1343</i>	<i>215</i>	<i>-1.1</i>	<i>/</i>	<i>640±1</i>	<i>546±20</i>	---
	C.21-1	22:52	6.17	13.1	5.2K	176	0.9	.01	2793±7	2712±5	---
* (1/2 way) →	C.24-1	23:11	8.53	~~~~~		not reliable		~~~~~		~~~~~	---
	C.25-1	23:28	6.27	13.1	3.4K	105	1.3	.03	2885±9	2703±6	---
* (1/2 way) → aborted!	C.27-1	~~~~~		~~~~~		not reliable		~~~~~		~~~~~	---
	<i>sl. 4-1</i>	<i>00.06</i> <del>00.29</del>	<i>6.34</i>	<i>13.1</i>	<i>1307</i>	<i>213</i>	<i>0.1</i>	<i>.009</i>	<i>624±1</i>	<i>581±23</i>	---
	C.28-1	<del>00.29</del>	6.30	13.7	9.0K	248	0.5	.005	2988±6	2706±4	---
	<i>Last scan</i> C.29-1	00:47	5.86	11.0	3.9K	212	1.6	.02	2488±6	2641±6	---
	<i>4th do</i> C.30-1	01:04	6.38	11.6	6.0K	178	1.4	.02	3116±8	2704±5	---
* → brief <i>Last + Last</i> <i>1st + 2nd</i> <i>ve spikes</i>	C.31-1	01:22	6.39	12.9	5.3K	143	0.4	.006	3096±8	2685±5	---
	<i>sl. 4-2</i>	<i>1:40</i>	<i>6.21</i>	<i>12.3</i>	<i>1168</i>	<i>220</i>	<i>1.2</i>	<i>.10</i>	<i>614±1</i>	<i>530±31</i>	---
	B.2-2	1:57	6.91	8.9	5.3K	150	14.7	.20	3268±9	2646±6	---
	B.4-2	2:15	7.05	9.8	4.7K	121	44.0	.81	3129±9	2536±8	---
	B.56-2	2:32	7.40	9.7	6.0K	148	27.2	.46	2920±7	2332±8	---
<i>1st Tho</i>	<i>sl. 4-3</i>	<i>2:50</i>	<i>6.33</i>	<i>12.5</i>	<i>1231</i>	<i>214</i>	<i>-0.9</i>	<i>/</i>	<i>617±1</i>	<i>584±21</i>	---
	B.56-3	3:07	7.54	9.8	13.6K	275	25.4	.20	3265±6	2484±4	---
	B. <del>7</del> 6-2	3: <del>42</del>	7.20	9.4	10.5K	210	17.7	.15	3751±8	2632±4	---
<i>SWAP</i>	B. <del>7</del> 2	3:25	6.43	12.0	3.0K	68.1	168.4	4.44	3545±14	2630±19	---
	<i>sl. 4-4</i>	<i>3:59</i>	<i>6.28</i>	<i>12.5</i>	<i>1189</i>	<i>209</i>	<i>0.4</i>	<i>.03</i>	<i>628±1</i>	<i>538±25</i>	---
	B.6-3	4:16	6.53	10.8	6.5K	141	371	4.31	3795±11	2622±12	---
	B.11-2	4:35	6.99	10.5	<del>10.5K</del> 9.2 194	<del>194</del> 194	9.0	.09	3528±8	2642±4	---
	B.12-3	4:53	6.87	10.6	4.0K	82.6	23.5	.50	3689±12	2651±8	---

Rejection over-ride	Sample/ Std ID	Time - printout	UO/U K cps	196 cps	206 cps	U ppm	204Pb ppb	f206 %	Age ±1σ (Ma)		196-204 Corr-
									206/238	207/206	206-207 206-208
	sl. 4-5	5:11	6.09	12.0	1099	227	-0.3	/	613±1	495±23	8.167 1.000 2.000
	B. 12-2	5:28	6.97	10.3	2.9K	59.4	71.6	2.15	3621±15	2647±14	- " -
	B. 12-5	5:45	6.93	11.0	3.2K	63.8	19.1	.54	3653±14	2641±9	- " -
	B. 13-2	6:02	6.78	10.8	3.3K	70.4	44.4	1.13	3640±13	2658±11	- " -
	sl. 4-6	<del>6:09</del> 6:05	6.05	12.0	1093	228	0.1	.05	619±1	559±24	- " -
	B. 15-3	6:37	6.71	11.0	3.0K	64.7	41.8	1.15	3653±14	2649±11	- " -
	B. 16a-3	6:54	6.64	10.4	4.6K	103	205	3.37	3715±12	2677±13	- " -
	B. 16b-2	7:11	6.97	10.5	3.3K	62.3	30.5	.80	3884±15	2653±9	- " -
	sl. 5-1	7:28	6.20	12.2	1165	214	-1.2	.000	641±1	505±23	- " -
<p>————— FINISH ~ 7:15 am —————</p>											