

## UWA SHRIMP DATA LOG

Date: 6/5/03 UWA Mount No.: C111 & C123 Whose sample?: Y1-763 / AMIRA 710 Operator(s): AP / M. Godfrey

Indicate any change to the following: 196 204 bkg 206 207 208 238 248 254 270

**Precambrian** Count time (secs): 2 10 10 10/20\* 30/10\* 10 5 5 2  
**Phanerozoic\*** Delay time (secs): 8 3 1 2 1 1 3 2 2

Steel: Wein volts / nA = -70 / 3.6 for O<sup>-</sup>; = -50 / 2.2 for O<sub>2</sub><sup>-</sup>; = -40 / 8.1 for NO<sup>-</sup>

dead-time = 24 nanosecs expected resolution = >4200 actual resolution = 5064

aperture = 100 microns retardation lens = - volts

Expected offsets (amu): 196-204 = 8.170; 204-bkg = 0.045; 204-206 ~ 2.000; 206-207 = 1.000; 206-208 = 2.000

Actual: 196-204 = 8.170 204-bkg = 0.045 204-206 = 2.000

206-207 = 1.000 206-208 = 2.000

Primary-epoxy = 2 nA Primary-CZ3 = 2.6 nA PESABM-CZ3 = 42 pA

Raster time (mins): 1.5 Raster aperture (microns): 90 μm No. of scans: 6

Comments: C111 B = E411  
 C111 C = E458  
 C123A = AMIRA 710 (of grain 11) (only fractured grains) ~ 6 analysis ca 2706-2710

NBS expected ratio 7/6 = 0.91 8/6 = 2.168

C111  
B

is it?

Rejection over-ride	Sample/ Std ID	Time - printout	UO/U	196 Kcps	206 cps	U ppm	204Pb ppb	f <sub>206</sub> %	Age ±1σ (Ma) 206/238	207/206	Offsets OK?
	<u>C234-2</u>	<u>11:01</u>	<u>6.39</u>	<u>16</u>	<u>1700</u>	<u>238</u>	<u>0.5</u>	<u>0.05</u>	<u>572 ± 3</u>	<u>627 ± 44</u>	✓
<u>↑ Ras 1.5 min</u>	<u>C23.4-3</u>	<u>11:25</u>	<u>6.51</u>	<u>16</u>	<u>1700</u>	<u>243</u>	<u>0.9</u>	<u>0.07</u>	<u>580 ± 4</u>	<u>535 ± 34</u>	✓
	<u>NBS. j-4</u>	<u>11:49</u>					<u>ratio</u>	<u>7/6</u>	<u>0.9061</u>	<u>2.1571</u>	<u>204/208</u> ✓ <u>control</u>
<u>rounded prismatic</u>	<u>B. 1-1</u>	<u>12:08</u>	<u>6.28</u>	<u>16</u>	<u>800</u>	<u>92</u>	<u>-ve</u>	<u>-ve</u>	<u>732 ± 7</u>	<u>683 ± 24</u>	✓
	<u>B. 2-1</u>	<u>12:26</u>	<u>6.42</u>	<u>17</u>	<u>1300</u>	<u>32</u>	<u>10.8</u>	<u>1.21</u>	<u>2661 ± 38</u>	<u>2790 ± 20</u>	✓
	<u>C23.4-4</u>	<u>12:45</u>	<u>6.30</u>	<u>16</u>	<u>1600</u>	<u>243</u>	<u>-</u>	<u>-</u>	<u>580 ± 4</u>	<u>614 ± 18</u>	✓
	<u>NBS. i-5</u>	<u>13:06</u>					<u>ratio</u>	<u>7/6</u>	<u>0.9066</u>	<u>2.1392</u>	✓
	<u>B. 3-1</u>	<u>13:32</u>	<u>6.40</u>	<u>16</u>	<u>1400</u>	<u>34</u>	<u>3.4</u>	<u>0.34</u>	<u>2758 ± 38</u>	<u>2795 ± 15</u>	✓

C111  
B

CB std chip?  
frag.  
CB std chip?

Rejection over-ride	Sample/ Std ID	Time - printout	UO/U Kcps	196 cps	206 cps	U ppm	204Pb ppb	f206 %	Age ±1σ (Ma) 206/238	207/206	Offsets OK?	
	B. 4-2	13:51	6.22	16	1700	242	-	-	593 ± 4	576 ± 19	✓	
	B. 5-1	14:09	6.55	16	1800	242	1.5	0.12	593 ± 4	529 ± 31	✓	
	C23.4-5	14:28	6.26	16	1600	237	-	-	591 ± 4	564 ± 22	✓	
	NBS. i-6	14:47					ratio =	7/6	0.9084	8/6	2.1750	✓
	B. 6-1	15:07	6.10	16	1600	42	6.3	0.51	2809 ± 30	2789 ± 14	✓	
	B. 7-1	15:26	6.38	16	1700	43	4.3	0.34	2805 ± 31	2786 ± 13	✓	
	B. 8-1	15:47	6.65	15	1100	28	2.1	0.25	2819 ± 37	2769 ± 18	✓	
	B. 9-1	16:10	6.50	15	1500	37	3.2	0.29	2832 ± 31	2763 ± 13	✓	
	C23.4-6	16:28	6.36	16	1600	232	-	-	584 ± 4	661 ± 27	✓	
	B. 10-1	16:47	6.17	15	1400	38	3.1	0.28	2805 ± 31	2768 ± 15	✓	
	B. 10-2	17:14	6.44	15	2300	58	0.2	0.01	2852 ± 25	2781 ± 7	✓	
	B. 12-1	17:35	6.45	15	1200	30	0.7	0.08	2877 ± 36	2782 ± 13	✓	
	B. 13-1	17:52	6.47	15	1500	38	8.6	0.78	2805 ± 33	2764 ± 17	✓	
	B. 14-1	18:10	6.11	16	860	23	12.5	1.91	2732 ± 43	2757 ± 28	✓	
	C23.1-3	18:29	6.62	15	1600	234	-	-	594 ± 5	535 ± 20	✓	
	B. 15-1	18:48	6.17	16	2200	56	8.9	0.54	2829 ± 29	2796 ± 12	✓	
	B. 16-1	19:10	6.37	15	1500	40	5.9	0.50	2816 ± 30	2771 ± 14	✓	
	B. 17-1	19:28	6.37	15	1700	42	2.6	0.20	2855 ± 34	2756 ± 12	✓	
not focused properly	B. 18-1	19:46	5.74	14	1400	45	2.1	0.16	2801 ± 33	2752 ± 13	✓	
	B. 19-1	20:07	6.40	15	2000	50	1.7	0.11	2860 ± 33	2765 ± 9	✓	
	C23.1-4	20:27	6.29	15	1600	236	0.2	0.02	580 ± 4	625 ± 32	✓	
	B. 20-1	20:46	6.70	14	1800	47	13	0.94	2817 ± 33	2762 ± 15	✓	
	B. 21-1	21:04	6.64	13	1700	49	31	2.24	2655 ± 31	2751 ± 22	✓	
	B. 22-1	21:29	6.27	15	1500	41	6.8	0.57	2787 ± 39	2772 ± 17	✓	
	B. 23-1	21:51	5.59	13	1600	52	3.0	0.19	2927 ± 69	2777 ± 23	✓	

Mount/sample No: C11 &amp; C123

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Rejection over-ride	Sample/ Std ID	Time - printout	UO/U	196 Kcps	206 cps	U ppm	204Pb ppb	f206 %	Age $\pm 1\sigma$ (Ma)		Offsets OK?
									206/238	207/206	
	B24-1	22:10	6.37	15	1900	57	47.3	3.2	2450 $\pm$ 31	2787 $\pm$ 21	✓
	<del>C23.1-5</del>	<del>22:28</del>	<del>6.76</del>	<del>14</del>	<del>1500</del>	<del>228</del>	-	-	<del>572<math>\pm</math>4</del>	<del>718<math>\pm</math>31</del>	✓
	NBS.1-7	22:50							<sup>7/6</sup> 0.9089	<sup>8/6</sup> 2.1675	✓ <sub>204</sub>
	C.1-1	23:12	6.83	13	1300	36	0.3	0.03	2854 $\pm$ 39	2781 $\pm$ 12	✓
	C.2-1	23:30	6.89	12	1700	48	2.3	0.16	2861 $\pm$ 31	2776 $\pm$ 11	✓
	C.3-1	23:49	6.56	14	2300	76	3.5	0.20	2330 $\pm$ 22	2775 $\pm$ 10	✓
	C.4-1	00:07	6.86	13	2400	90	2.8	0.15	2138 $\pm$ 20	2789 $\pm$ 10	✓
	C.5-1	00:25	6.56	14	1900	52	2.1	0.14	2736 $\pm$ 27	2820 $\pm$ 12	✓
	<del>C23.1-6</del>	<del>00:42</del>	<del>6.09</del>	<del>14</del>	<del>1400</del>	<del>244</del>	-	-	<del>575<math>\pm</math>5</del>	<del>578<math>\pm</math>34</del>	✓
	C.6-1	01:01	6.56	15	1600	41	0.9	0.07	2824 $\pm$ 30	2781 $\pm$ 13	✓
	C.7-1	01:19	7.27	10	1100	35	1.7	0.16	2864 $\pm$ 41	2761 $\pm$ 14	✓
	C.8-1	01:37	6.88	13	2000	57	5.8	0.36	2729 $\pm$ 29	2793 $\pm$ 10	✓
	C.9-1	01:54	6.45	14	1500	39	2.9	0.25	2851 $\pm$ 34	2772 $\pm$ 14	✓
	C.10-1	02:13	6.54	14	2200	57	1.5	0.09	2834 $\pm$ 29	2763 $\pm$ 9	✓
	<del>C23.7-1</del>	<del>02:30</del>	<del>6.36</del>	<del>14</del>	<del>1500</del>	<del>240</del>	-	-	<del>597<math>\pm</math>8</del>	<del>547<math>\pm</math>70</del>	✓
	C.11-1	02:49	6.28	15	2000	53	1.6	0.10	2820 $\pm$ 31	2773 $\pm$ 10	✓
	C.12-1	03:07	6.64	14	1300	35	0.8	0.08	2830 $\pm$ 34	2794 $\pm$ 12	✓
	C.13-1	03:25	6.46	15	1600	41	2.3	0.20	2787 $\pm$ 39	2734 $\pm$ 12	✓
	C.14-1	03:43	6.60	14	2300	60	1.3	0.08	2824 $\pm$ 26	2779 $\pm$ 9	✓
	C.15-1	04:00	6.27	14	1700	49	1.4	0.10	2828 $\pm$ 38	2783 $\pm$ 11	✓
	<del>C23.3-8</del>	<del>04:19</del>	<del>6.69</del>	<del>14</del>	<del>1600</del>	<del>223</del>	-	-	<del>583<math>\pm</math>4</del>	<del>546<math>\pm</math>24</del>	✓
	C.16-1	04:37	6.31	15	2000	60	30	1.91	2583 $\pm$ 24	2757 $\pm$ 16	✓
	C.17-1	04:55	6.70	14	1800	46	0.6	0.05	2802 $\pm$ 32	2767 $\pm$ 9	✓
	<del>C23.1-8</del>	<del>05:14</del>	<del>7.00</del>	<del>12</del>	<del>1500</del>	<del>23</del>	<del>2.5</del>	<del>0.20</del>	<del>604<math>\pm</math>5</del>	<del>483<math>\pm</math>36</del>	✓
	A.23-1	05:34	6.51	15	6900	202	8.2	0.16	2564 $\pm$ 14	2609 $\pm$ 5	✓

Mount C123

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

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	Offsets OK?
	A.24-1	05:58	6.95	14	6100	134	69	1.5	3139±19	2447±11		✓
	A.25-1	06:16	6.97	12	4400	108	30	0.80	3224±26	2570±10		✓
	<del>C23.1-9</del>	<del>06:34</del>	<del>6.69</del>	<del>14</del>	<del>1500</del>	<del>227</del>	<del>1.4</del>	<del>6.12</del>	<del>606±4</del>	<del>579±28</del>		✓
aborted (out)	A.26-1	06:41	6.89	13	10000	113	88	1.1	5483	2434		✓
	A.27-1	06:59	6.34	14	4600	132	9.6	0.26	2711±22	2704±8		✓
	A.28-1	07:16	6.31	16	5900	219	8.8	0.21	2017±11	2423±7		✓
	A.29-1	07:33	7.51	13	6100	234	44	0.08	1959±13	2448±12		✓
	A.30-1	07:57	6.52	14	3400	92	6.7	0.25	2823±21	2702±9		✓
	<del>C23.2-1</del>	<del>08:14</del>	<del>6.90</del>	<del>12</del>	<del>1500</del>	<del>239</del>	<del>0.8</del>	<del>0.06</del>	<del>209±5</del>	<del>527±31</del>		✓
Forgot to + counting.	NBS 1-8								7/6 0.9058	2/6 2.1318		