

UWA SHRIMP DATA LOG

Date: 14/4/03 UWA Mount No.: C111 & C123 Whose sample?: YIP763/AMIRA710 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 = -40/16 for O⁻; = -50/4.2 for O₂⁻; = -71/12 nA for NO⁻

dead-time = 24 nanosecs expected resolution = >4200 actual resolution = 4941

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 = 3.5 nA Primary-CZ3 = 4.8 nA PESABM-CZ3 = 80 pA

Raster time (mins): 1 Raster aperture (microns): 90 No. of scans: 6

Comments: C111A = E416 feldspathic slst; Prg well wnglo -> YIP763

C123 = AMIRA 710 (Igneous?)

* = exclude.

Do 3 x NBS expected ratio 7/6 = 0.91 8/6 = 2.168

C111

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	Age ±1σ (Ma) 207/206	Offsets OK?
	<u>C23-1-1</u>	<u>10:06</u>	<u>6.18</u>	<u>31</u>	<u>3100</u>	<u>238</u>	<u>0.2</u>	<u>0.01</u>	<u>572 ± 5</u>	<u>601 ± 24</u>	✓
<u>40/u ↓</u>	<u>C23-1-2</u>	<u>10:24</u>	<u>5.52</u>	<u>36</u>	<u>3100</u>	<u>241</u>	<u>-ve</u>	<u>-ve</u>	<u>550 ± 3</u>	<u>601 ± 18</u>	✓
	<u>A. 1-1</u>	<u>10:46</u>	<u>5.63</u>	<u>36</u>	<u>1100</u>	<u>15</u>	<u>0.5</u>	<u>0.13</u>	<u>2647 ± 31</u>	<u>2685 ± 19</u>	✓
	<u>A. 2-1</u>	<u>11:05</u>	<u>5.59</u>	<u>35</u>	<u>1900</u>	<u>26</u>	<u>0.3</u>	<u>0.04</u>	<u>2683 ± 25</u>	<u>2717 ± 20</u>	✓
<u>NBS run table -</u>	<u>NBS-1-1</u>	<u>11:26</u>					<u>ratios:</u>		<u>7/6</u>	<u>8/6</u>	<u>4,6,8 control</u>
	<u>C23-2-1</u>	<u>11:46</u>	<u>5.40</u>	<u>35</u>	<u>2900</u>	<u>250</u>	<u>-ve</u>	<u>-ve</u>	<u>544 ± 3</u>	<u>608 ± 14</u>	✓
	<u>A. 3-1</u>	<u>12:08</u>	<u>5.68</u>	<u>36</u>	<u>3500</u>	<u>47.7</u>	<u>0.8</u>	<u>0.06</u>	<u>2617 ± 21</u>	<u>2656 ± 7</u>	✓
	<u>A. 4-1</u>	<u>12:26</u>	<u>5.65</u>	<u>35</u>	<u>2900</u>	<u>41.3</u>	<u>0.5</u>	<u>0.05</u>	<u>2607 ± 22</u>	<u>2668 ± 9</u>	✓

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C111

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.5-1	12:43	5.73	34	3600	50.6	0.4	0.03	2621 ± 18	2679 ± 7	✓
	A.6-1	13:07	5.58	37	3300	41.0	2.1	0.17	2815 ± 24	3003 ± 8	✓
	C23.2-2	13:24	5.55	35	3200	251	1.1	0.09	558 ± 3	550 ± 31	✓
	A.7-1	13:42	5.68	36	3900	65.5	5.7	0.40	2155 ± 15	2647 ± 10	✓ Disc
	A.8-1	14:00	5.67	36	3200	45.5	1.9	0.17	2497 ± 20	2671 ± 11	✓ Disc
	A.9-1	14:17	5.87	35	3800	81.3	33.5	2.41	1750 ± 43	2692 ± 148	✓ Disc
	A.10-1	14:35	5.85	34	1300	18.3	0.8	0.15	2636 ± 33	2697 ± 17	✓
	A.11-1	14:55	5.91	33	2300	32.6	1.1	0.13	2616 ± 22	2662 ± 10	✓
	A.12-1	15:15	5.41	38	2800	38.5	1.2	0.12	2614 ± 21	2660 ± 10	✓
	C23.2-3	15:32	5.68	36	3300	252	0.6	0.05	554 ± 4	609 ± 21	✓
	A.13-1	15:53	5.54	36	3200	49.5	5.7	0.48	2409 ± 16	2666 ± 10	✓ Disc
	A.14-1	16:10	5.92	34	1500	20.6	0.9	0.15	2636 ± 31	2704 ± 14	✓
	A.15-1	16:27	5.77	35	7800	108	1.0	0.04	2600 ± 13	2672 ± 7	✓
	A.16-1	16:44	5.75	35	2900	40	1.7	0.15	2635 ± 20	2651 ± 9	✓
	A.17-1	17:02	5.50	34	3300	47.9	-ve	-ve	2650 ± 18	2647 ± 7	✓
	A.18-1	17:19	5.74	35	2900	40.1	0.4	0.04	2610 ± 20	2671 ± 8	✓
	C23.3-1	17:37	5.57	36	3300	255	-ve	-ve	555 ± 2	549 ± 14	✓
	A.19-1	17:55	5.71	37	1200	15.6	-ve	-ve	2712 ± 36	2716 ± 12	✓
	A.20-1	18:15	6.09	32	5700	77.7	2.5	0.13	2623 ± 17	2651 ± 6	✓
	A.21-1	18:33	5.59	36	3600	50.4	1.5	0.11	2620 ± 21	2664 ± 9	✓
	A.22-1	18:51	5.68	36	3600	50.1	-ve	-ve	2614 ± 17	2682 ± 7	✓
	A.23-1	19:09	5.98	34	910	11.8	-ve	-ve	2689 ± 44	2691 ± 15	✓
	A.24-1	19:30	5.94	34	3100	42.7	-ve	-ve	2634 ± 24	2669 ± 5	✓
	C23.3-2	19:47	5.51	36	3300	258	0.9	0.07	563 ± 3	592 ± 23	✓
	A.25-1	20:05	5.75	35	2600	36	0.3	0.03	2656 ± 21	2675 ± 7	✓

Scans 5,6 → 20V highlight an inclusion/porc?

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?

C111

NBS run table

Mount C123 *

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.26-1	20:24	5.81	35	2900	40	0.4	0.04	2644±22	2662±8	✓
	A.27-1	20:41	5.74	36	3900	56	2.5	0.18	2517±16	2655±8	✓
	A.28-1	20:58	5.94	34	1600	22	0.4	0.06	2656±32	2705±13	✓
	A.29-1	21:17	5.85	34	2100	29	0.7	0.09	2653±26	2669±10	✓
	A.30-1	21:38	5.26	33	1400	24	-	-	2605±30	2711±10	✓
	A.31-1	21:56	5.06	31	2100	40	0.8	0.07	2550±20	2667±10	✓
	C23.4-1	22:14	5.32	33	2900	261	0.5	0.04	549±9	568±31	✓
	NBS.1-2	22:33							7/6 0.915	8/6 2.168	✓
	C23.1-1	22:53	6.27	27	3000	250	-	-	593±8	586±42	✓
	A.1-1	23:19	6.44	31	11000	182	41	1.04	2176±13	2553±7	✓
	A.2-1	23:40	6.33	34	14000	185	52	1.12	2437±60	2482±10	✓
	A.3-1	23:59	5.89	33	11000	141	1.0	0.03	2732±13	2743±5	✓
	A.4-1	00:17	6.82	32	13000	259	11.6	0.27	1722±90	2375±124	✓
	C23.1-2	00:34	5.84	35	3300	247	0.1	0.01	564±4	559±27	✓
	A.5-1	00:52	5.69	35	8100	107	2.7	0.09	2728±15	2721±5	✓
	A.6-1	01:17	6.79	31	1800	242	95	1.59	2412±13	2313±11	✓
	A.7-1	01:34	6.29	35	8800	142	23	0.78	2050±9	2563±8	✓
	A.8-1	01:54	5.97	34	1700	182	1.1	0.02	2515±9	2701±3	✓
	A.9-1	02:12	5.99	34	1200	161	2.2	0.05	2680±11	2721±4	✓
	C23.1-3	02:29	5.85	34	3300	249	0.6	0.05	566±2	578±20	✓
	A.10-1	02:48	5.86	36	1200	175	8.7	0.20	2474±9	2609±5	✓
	A.11-1	03:08	6.07	32	1400	187	7.7	0.14	2766±34	2708±21	✓
	A.12-1	03:25	5.54	37	6600	84	8.2	0.34	2763±22	2662±11	✓
	A.13-1	03:47	5.17	32	7400	126	-	-	2678±17	2749±10	✓
	A.14-1	04:04	5.16	33	9800	161	0.4	0.01	2681±10	2748±7	✓
	* A.15-1	04:25	6.23	12	2700	98	0.4	0.01	267	3253	0 reset.

→ * magnet power tripped out during 3rd scan.

↑ exclude

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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	Offsets OK?
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* mag. tripped out during 4th scan. again (3rd)	X	C23.1-4	04:48	5.98	18	1900	276	-	-	539	2600	~
	X	C23.1-5	05:04	5.04	-	-	107	-	-	-	-	-
		A.16-1	05:26	5.64	36	1500	222	2.5	0.05	2456 ± 45	2709 ± 4	✓
Aborted (high zc)		A.17-1	05:40									
		A.18-1	05:58	5.76	38	1200	176	5.5	0.14	2381 ± 10	2611 ± 4	✓
		A.19-1	06:17	5.41	36	9700	137	0.6	0.02	2677 ± 11	2737 ± 4	✓
		C23.1-6	06:35	6.05	32	3200	254	0.9	0.08	551 ± 3	598 ± 21	✓
		A.20-1	07:00	5.74	37	5700	71	3.9	0.19	2724 ± 16	2712 ± 8	✓
		A.21-1	07:22	6.23	32	7700	101	3.1	0.11	2701 ± 14	2727 ± 5	✓
		A.22-1	07:43	5.94	38	9500	124	4.0	1.27	2471 ± 15	2617 ± 11	✓
		C23.1-7	08:04	5.92	33	3500	259	-	-	576 ± 5	556 ± 28	✓
		NBS.1-3							7/6 0.911	8/6 2.178		