

### UWA SHRIMP DATA LOG

Date: 13/5/03      UWA Mount No. C96 - YIP763  
03-26 - AMIRA710      Whose sample? AP      Operator(s) AP

---

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 =  $-72/5.2$  for O<sup>-</sup>; =  $-52/2.2$  for O<sub>2</sub><sup>-</sup>; =  $-42/9.4$  for NO<sup>-</sup>

dead-time =  $24$  nanosecs      expected resolution = >4200      actual resolution =  $5294$

aperture =  $100$  microns      retardation lens =  $0$  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 =  $8.170 \rightarrow 8.168^*$       204-bkg =  $0.045$       204-206 =  $\sim 2.000$

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):  $70$       No. of scans:  $6$

Comments: C96B = E413 ; identify 2664 pop. - real?  
03-26 B&C : any analyses with  $\geq 300$  ppm U is suspect (ie discordant or young date)

Probs with  $1\sigma$  stability.

End bet 7:30 am in chill H<sub>2</sub>O off.

C96B

Rejection over-ride	Sample/ Std ID	Time - printout	UO/U	196 Kcps	206 cps	U ppm	204Pb ppb	f <sub>206</sub> %	Age $\pm 1\sigma$ (Ma) 206/238 207/206	Offsets OK?
	C23-17-1	10:43	6.28	16	1500	238	-	-	572 $\pm$ 4      614 $\pm$ 24	✓
	C23-14-1	11:03	6.37	15	1400	235	0.9	0.08	593 $\pm$ 56      532 $\pm$ 45	✓
	NBS-1-1	11:28				ratios =		6/38 7/6 0.2508 0.9065	2.1572	204, 7, 8 cal <sup>5</sup> wd 196 " 8FF
	B-23-1	11:51	6.45	15	1900	88	4.7	0.29	1901 $\pm$ 17      1813 $\pm$ 21	✓ ?
	B-24-1	12:09	6.46	15	3300	90	1.5	0.06	2825 $\pm$ 27      2784 $\pm$ 14	✓
	C23-12-1	12:30	5.33	10	960	253	2.4	0.16	678 $\pm$ 316      557 $\pm$ 479	8-168 -76-20x ✓
	C23-11-1	12:50	6.43	14	1400	240	1.9	0.16	565 $\pm$ 26      540 $\pm$ 51	✓
	NB2-1-2	13:13				ratios =		6/38 7/6 0.2573 0.9059	2.1291	✓

@ 207  
scan 3: 14  $\downarrow$  2.5 nA

1 $^{\circ}$   $\downarrow$  end scan 2

1 $^{\circ}$  dropping from scan 4.

C96 B

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?
			↑								
	B. 25-1	13:41		13	2100	62	4.2	0.23	2776 ± 37	2778 ± 10	✓
	B. 26-1	14:01		15	1400	42	1.3	0.11	2642 ± 30	2760 ± 12	✓
	C23.8-1	14:26		16	1400	220	1.5	0.13	610 ± 50	521 ± 34	✓
	B. 27-1	15:03		13 ↓	2300	84	0.5	0.02	2512 ± 207	2967 ± 153	✓
	B. 28-1	15:23		13	1100	44	8.8	0.77	2515 ± 30	2738 ± 23	✓
	B. 29-1	15:42		12	4200	142	0.1	0.002	2852 ± 21	2780 ± 6	✓
	NBS. i-3	16:04						0.2603	0.9057	2.1362	
	C23.8b-1	16:23		18 ↑	1400	221	0.3	0.03	588 ± 4	586 ± 35	✓
	B. 30-1	16:44		16	3200	85	0.9	0.04	2876 ± 26	2782 ± 8	✓
	B. 31-1	17:03		16	2500	73	-	-	2798 ± 30	2785 ± 8	✓
	B. 32-1	17:25		16	3200	90	1.8	0.07	2819 ± 20	2775 ± 10	✓
	B. 33-1	17:43		16	7300	203	-	-	2769 ± 17	2718 ± 4	✓
	C23.9-1	18:02		16	1500	236	0.3	0.03	579 ± 4	644 ± 50	✓
	B. 34-1	18:30		15	5700	175	2.7	0.06	2553 ± 71	2565 ± 5	✓
	B. 35-1	18:49		16	2400	70	1.1	0.06	2822 ± 28	2766 ± 9	✓
	B. 36-1	19:11		16	2500	66	-	-	2877 ± 24	2778 ± 8	✓
	B. 37-1	19:30		16	5000	140	3.2	0.08	2799 ± 19	2774 ± 6	✓
	C23.9-2	19:29		16	1400	243	2.3	0.19	583 ± 5	534 ± 46	✓
	C23.1-1	21:20		17	1500	221	0.5	0.04	591 ± 4	607 ± 40	✓
	C23.i-2	21:37		16	1500	234	1.1	0.09	573 ± 4	566 ± 50	✓
	C. 1-1	21:58		17	4600	125	4.0	0.11	2799 ± 17	2714 ± 8	✓
	C. 2-1	22:16		17	4100	114	1.5	0.05	2845 ± 17	2722 ± 6	✓
	C. 3-1	22:35		18	420	11	0.0	-	2867 ± 56	2717 ± 23	✓
	C. 4-1	22:53		17	5000	136	2.2	0.06	2825 ± 18	2817 ± 5	✓
	C2.1-3	23:11		16	1500	226	1.9	0.16	606 ± 36	550 ± 37	✓

conductivity prob?

1° noisy.

1° noisy.

1° dropped last scan.

1° stable

↓

03-26

HV OFF →

Mount/sample No: 03-26

Date: 13-14/5/03

Page No: 3

C

1° dropping.  
1° noisy & ↓  
P ↓  
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?
---------------------	----------------	-----------------	------	----------	---------	-------	-----------	--------	----------------------	---------	-------------

	C-5-1	23:30	5.93	17	2700	74	2.7	0.12	2863 ± 24	2698 ± 10	✓
	C-6-1	24:08	5.76	16	1800	59	0.3	0.02	2647 ± 159	2780 ± 24	✓
	C-7-1	24:28	6.47	15	4600	149	4.9	0.14	2423 ± 91	2580 ± 32	✓ disc
	C-8-1	24:47	6.05	15	4000	194	2.3	0.06	1900 ± 49	2336 ± 22	✓ disc
	C-9-1	01:07	5.86	18	1900	53	6.4	0.09	2820 ± 33	2735 ± 10	✓
	C23.1-4	01:26	5.99	17	1400	225	-	-	581 ± 4	622 ± 23	✓
	C-10-1	01:45	6.09	17	3900	107	2.6	0.09	2758 ± 20	2743 ± 7	✓
	C-11-1	02:04	6.04	17	2600	70	1.7	0.08	2761 ± 22	2714 ± 8	✓
	C-12-1	02:21	6.02	16	4200	176	6.1	0.18	2040 ± 44	2524 ± 7	✓ disc
	C-13-1	02:50	6.40	17	5000	171	4.5	0.12	2201 ± 16	2463 ± 7	✓ disc
	C-14-1	03:10	5.87	17	3500	197	1.5	0.05	1518 ± 39	2171 ± 19	✓ disc
	C23.1-5	03:28	6.10	17	1500	226	0.9	0.08	586 ± 4	611 ± 32	✓
	B-1-1	03:52	6.15	17	1700	46	-	-	2765 ± 34	2745 ± 12	✓
	B-2-1	04:16	6.05	17	4100	165	0.7	0.02	1988 ± 12	2485 ± 8	✓ disc
	B-3-1	04:34	6.14	17	2700	72	-	-	2842 ± 27	2742 ± 7	✓
	B-4-1	04:53	6.33	16	3500	96	2.7	0.10	2799 ± 26	2736 ± 8	✓
	B-5-1	05:11	6.09	17	5800	180	2.3	0.05	2558 ± 16	2688 ± 6	✓
	C23.1-6	05:29	6.27	16	1500	235	-	-	590 ± 4	588 ± 30	✓
	B-6-1	05:47	6.31	17	4700	261	2.5	0.07	1487 ± 31	2125 ± 8	✓ disc
	B-7-1	06:06	6.06	16	7200	206	1.6	0.03	2783 ± 13	2706 ± 5	✓ "
	B-8-1	06:34	6.19	17	6300	210	0.4	0.01	2350 ± 13	2595 ± 8	✓ "
	B-9-1	06:52	6.12	16	5100	210	1.6	0.04	2697 ± 53	2410 ± 8	✓ "
	C23.1-7	07:21	6.38	17	1500	222	-	-	589 ± 4	632 ± 53	✓

1° ↓ last scan.

1° ↓ last scan.

1° ↓ last 2 scans.

1° noisy.

B