

UWA SHRIMP DATA LOG

Date: 12.01.04 UWA Mount No.: C33, 03-74 Whose sample?: CRC-Y1 Operator(s): AP & MG

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	40	10	5	5	2
Phanerozoic*	Delay time (secs):	8	3	1	2	2	1	3	2	2

Steel: Wein volts / nA = 88V/11nA for O⁻; = 64V/2nA for O₂⁻; = 55V/3.2nA for NO⁻

dead-time = 24 nanosecs expected resolution = >4200 actual resolution = 4223
 aperture = 30 microns (blown) → ~15-20µm spot 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 = 8.170 204-bkg = 0.045 204-206 = 2.003
 206-207 = 1.000 206-208 = 2.000

Primary-epoxy = 1.8 nA Primary-CZ3 = 2.4 nA PESABM-CZ3 = 44 pA
 Raster time (mins): 1.5 Raster aperture (microns): 50 No. of scans: 6

Comments: NB: need <5 ppb 204 ⇒ ≤ 10 counts (total) conc Ud 1.7742 Pb/U = 0.198
 Uo/U = 6.1742

C33: cf pos.
 03-74c:

Sensitivity = 24.66

C33

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?
	C2.2-1	12:38	6.17	16	1800	238	0.4	0.04	572 ± 4 / 566 ± 25	✓
	C2.2-2	12:59	6.15	15	1900	246	-	-	607 ± 4 / 566 ± 16	✓
	C.25-1	13:26	5.77	17	880	21	2.0	0.33	2698 ± 5 / 2707 ± 21	✓
	C2.2-3	13:47	6.07	15	1800	246	1.1	0.09	601 ± 6 / 603 ± 36	✓
↑ raster to 1.5 min.	C.26-1	14:13	6.49	16	3000	87	8.6	0.47	2130 ± 16 / 2732 ± 10	✓
	C.27-1	14:34	6.10	16	1600	36	-	-	2850 ± 33 / 2704 / 2706 ± 10	✓
	C.28-1	14:57	6.13	16	2100	46	2.2	0.16	2871 ± 3 / 2719 ± 9	✓
	C2.2-4	15:17	5.85	15	1700	245	0.1	0.01	599 ± 4 / 609 ± 18	✓

Incorrect coll pos. for 296 → 248 !!

↑ raster to 1.5 min.

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-29-1	15:42	5.98	16	2200	54	0.9	0.06	2748 ± 32	2721 ± 10	✓
	C-30-1	16:02	6.28	17	1500	37	8.0	0.91	2382 ± 25	2705 ± 18	✓
	C-31-1	16:23	6.15	17	1700	38	0.1	0.01	2819 ± 32	2715 ± 6	✓
	C-32-1	16:43	6.14	15	1500	37	1.6	0.15	2653 ± 29	2694 ± 13	✓
	C2.2-5	17:03	5.94	15	1800	245	0.4	0.03	625 ± 5	505 ± 48	✓
	C-33-1	17:24	5.94	17	2000	47	-	-	2818 ± 31	2721 ± 10	✓
	C-34-1	17:43	6.38	16	1100	35	5.7	0.87	1929 ± 26	2697 ± 18	✓
	C2.2-6	18:04	6.08	16	1900	243	1.6	0.13	590 ± 4	586 ± 27	✓
	C-35-1	18:29	6.11	16	2300	56	4.3	0.28	2647 ± 23	2691 ± 11	✓
	C2.2-7	18:49	6.16	16	1900	248	-	-	595 ± 4	624 ± 14	✓
	C-36-1	19:09	6.38	16	2200	58	7.2	0.54	2323 ± 22	2758 ± 12	✓
	C-37-1	19:34	6.06	16	2100	46	2.8	0.26	2894 ± 36	2723 ± 10	✓
	C-38-1	20:02	5.96	16	1800	40	0.6	0.05	2873 ± 29	2716 ± 10	✓
	C-39-1	20:23	5.88	17	1700	38	0.7	0.06	2874 ± 29	2713 ± 11	✓
	C2.2-7	20:45	5.99	16	1900	245	0.4	0.03	602 ± 3	545 ± 30	✓
	C-40-1	21:08	6.20	16	1600	38	6.2	0.62	2567 ± 30	2707 ± 15	✓
	C-41-1	21:29	5.73	17	1600	37	1.7	0.16	2875 ± 30	2720 ± 10	✓
	C-42-1	21:51	5.82	17	1600	38	6.6	0.58	2853 ± 35	2724 ± 14	✓
	C-43-1	22:20	5.62	14	1500	49	4.2	0.32	2589 ± 27	2726 ± 11	✓
	C2.2-8	22:42	6.01	17	2000	244	-	-	607 ± 4	631 ± 15	✓
	C-44-1	23:17	6.83	17	2000	73	14.7	1.4	1537 ± 16	2786 ± 14	✓
	C-45-1	00:10	5.81	18	840	9	-	-		2779 ± 15	✓
	* rename C-46	00:56	5.60	16	540	15	2.1	0.49	2718 ± 53	2685 ± 22	✓
	C2.2-9	01:26	8.81	6.0	1700	505	-	-	434 ± 87		✓
	C2.2-10	01:53	6.01	15	1600	237	-	-	589 ± 3	586 ± 22	✓

combs froze during 4th scan →

* rename C-46

crashed after 4th scan →

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Date: 12/1/04

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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	
	C47-1	02:13	5.91	15	1500	40	4.9	.47	2707 \pm 31	2718 \pm 14	✓
	C48-1	02:35	6.09	14	2100	52	1.3	.09	2859 \pm 28	2709 \pm 9	✓
	C49-1	02:57	6.25	15	2000	56	15.3	1.1	2424 \pm 22	2695 \pm 17	✓
	C50-1	03:17	6.11	15	1900	49	-	-	2709 \pm 33	2722 \pm 9	✓
	CZ.2-11	03:38	6.08	14	1700	246	-	-	609 \pm 4	569 \pm 21	✓
	C51-1	03:59	6.12	14	1800	48	1.6	0.61	2806 \pm 29	2724 \pm 9	✓
	C52-1	04:22	6.81	13	1800	113	20.6	1.7	1187 \pm 39	2785 \pm 18	✓
	C53-1	04:44	6.56	14	2300	122	13.3	.86	1361 \pm 12	2771 \pm 12	✓
	C54-1	05:06	6.04	15	1400	35	0.4	.04	2882 \pm 32	2697 \pm 9	✓
	CZ.2-12	05:27	6.00	14	1700	247	0.2	.02	606 \pm 5	540 \pm 27	✓
	C55-1	05:48	7.23	16	2200	107	20.2	1.7	1179 \pm 10	2822 \pm 15	✓
	CZ.2-1	06:12	6.06	15	1700	241	1.2	.10	589 \pm 4	588 \pm 31	✓
	C.1-1	06:42	6.46	14	230	9	1.4	.86	1920 \pm 50	1827 \pm 72	✓
	C.2-1	07:02	6.08	15	1200	31	3.0	.35	2645 \pm 33	2530 \pm 17	✓
	C.3-1	07:22	6.28	15	5700	177	2.7	.07	2267 \pm 15	2349 \pm 6	✓
	C.4-1	07:42	6.43	14	6300	256	3.5	.08	1848 \pm 10	1789 \pm 8	✓
	CZ.2-2	08:03	6.04	15	1700	238	0.7	.06	589 \pm 3	576 \pm 39	✓

Mount
03-74 →