

UWA SHRIMP DATA LOG

Date: 12/4/00 UWA Mount No.: A-14 Whose sample?: A650 Neal Operator(s): IRF+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* 30/40* 10 5 5 2
 Phanerozoic* Delay time (secs): 8 3 1 2 1 1 3 2 2

CZ3: 73V 58V 46V

Steel: Wein volts / nA = for O⁻; = for O₂⁻; = for NO⁻

dead-time = 32 nanosecs expected resolution = >4200 actual resolution = 4990

aperture = 70 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 = 8.169 204-bkg = 0.045 204-206 = ~~8.169~~ 1.999

206-207 = 1.000 206-208 = 2.000

Primary-epoxy = 0.8 nA Primary-CZ3 = 1.0 nA PESABM-CZ3 = 50/4.0 nA

Raster time (mins): 2 Raster aperture (microns): 100 No. of scans: 6

Comments: Using 70 μm Köhler and brightness apertures to limit I⁰.

A = High U problem!
 C = High Pb₂₀₄ problem!

NB: Avoid collecting data if UO > 300 kHz

Rejection override	Sample/ Std ID	Time - printout	UO/U	196 Kcps	206 cps	U ppm	²⁰⁴ Pb ppb	f ₂₀₆ %	Age ±1σ (Ma) 206/238	207/206	Offsets OK?
	CZ-3-1										
	CZ-3-2										
Scan 1	C-41										
	CZ-3-3	14:18	7.37	4.7	592	220	1.0	.003	572 ± 1	484 ± 35	8.167 ✓
	CZ-3-4	14:38	7.38	4.7	579	218	3.7	.08	553 ± 1	571 ± 33	✓
	A-1-1	15:03	7.93	4.3	51.6k	2643	3.3	.003	3010 ± 3	2675 ± 2	✓
	A-2-1	15:22	7.19	4.5	45.4k	3071	4.8	.004	2849 ± 3	2671 ± 2	✓
	CZ-3-5	15:42	7.38	4.7	596	228	1.9	.16	549 ± 1	521 ± 52	✓

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	207/206	Offsets OK?
	A.3-1	16:03	7.33	4.7	164 k	1085	3.6	.009	2699 ± 4	2680 ± 3	✓
	A.4-1	16:25	7.79	4.7	62.2 k	2788	7.4	.006	3252 ± 3	2682 ± 2	✓
	A.5-1	17:03	7.86	4.6	63.4 k	2712	30.7	.02	3380 ± 3	2674 ± 1	✓
	A.6-1	17:26	8.15	3.9	75.6 k	3638	18.2	.01	3235 ± 3	2716 ± 1	✓
	CZ.3-6	17:45	7.42	4.7	512	217	2.1	.10	527 ± 1	632 ± 33	✓
	A.7-1	18:11	7.42	4.6	9.8 k	680	5.2	.02	2604 ± 5	2680 ± 4	✓
	A.8-1	18:29	7.74	4.3	58.5 k	3345	4.4	.003	2935 ± 3	2669 ± 2	✓
	A.9-1	18:50	7.88	4.2	51.5 k	2786	3.3	.003	2986 ± 3	2677 ± 2	✓
	A.10-1	19:08	7.56	4.5	29.0 k	1862	4.0	.006	2711 ± 3	2673 ± 2	✓
	CZ.3-7	19:29	7.35	4.9	568	217	4.7	.04	534 ± 1	670 ± 31	✓
	A.11-1	19:56	7.60	4.3	34.8 k	2242	3.6	.004	2771 ± 3	2679 ± 2	✓
	A.12-1	20:16	7.80	4.4	41.0 k	2033	10.7	.01	3128 ± 3	2677 ± 2	✓
	A.13-1	20:50	7.52	4.4	28.6 k	1751	0.5	.001	2882 ± 3	2669 ± 2	✓
	A.14-1	21:13	7.20	4.9	26.1 k	1648	1.9	.003	2855 ± 3	2733 ± 2	✓
	A.15-1	21:32	8.19	4.5	67.5 k	2410	15.1	.01	3608 ± 3	2676 ± 1	✓
	CZ.3-8	21:51	7.12	5.0	553	225	2.1	.03	536 ± 1	653 ± 32	✓
	A.16-1	22:09	7.88	4.2	30.1 k	1804	11.5	.02	2750 ± 3	2685 ± 2	✓
Small	A.17-1	22:33	7.68	4.5	27.3 k	1679	1.2	.002	2701 ± 3	2674 ± 2	✓
	A.18-1	22:54	7.80	4.5	36.0 k	1938	0.2	.000	2872 ± 3	2683 ± 2	✓
	A.19-1	23:15	7.83	4.5	31.8 k	1754	0.7	.001	2831 ± 3	2674 ± 2	✓
	A.20-1	23:40	7.75	4.7	20.3 k	1199	6.2	.01	2638 ± 4	2680 ± 3	✓
	CZ.3-9	23:59	7.50	4.8	575	211	1.8	.20	532 ± 1	546 ± 34	✓
	C.5-1	24:52	7.36	5.1	2183	134	3.7	.07	2663 ± 11	2742 ± 8	✓
	C.6-1	01:10	7.24	5.1	6445	419	789	.51	2624 ± 6	2731 ± 6	✓
	C.7-1	01:28	7.10	5.2	5610	358	68	.05	2767 ± 7	2750 ± 5	✓

Many of the files are highly non-linear

A

C

Mount/sample No: A-14

Date: 14/4/00

Page No: 3

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	Age ±1σ (Ma) 207/206	Offsets OK?
	C.8-1	1:46	6.98	5.1	8371	627	95.9	.03	2561 ± 5	2757 ± 5	✓
	C.9-1	2:09	7.50	4.8	4450	296	99.3	.94	2516 ± 7	2750 ± 8	✓
	C.10-1	2:28	7.01	5.4	1589	114	93.5	2.34	2477 ± 12	2685 ± 19	✓
	C2.3b-1	2:46	7.49	4.9	592	213	2.7	.07	541 ± 1	605 ± 32	✓
	C.11-1	3:10	7.01	5.2	6448	469	75.5	.44	2562 ± 6	2756 ± 5	✓
	C.12-1	3:28	7.24	5.1	4860	320	41.5	.35	2610 ± 7	2766 ± 6	✓
	C.13-1	3:46	7.47	4.9	15.5K	859	4.3	.01	2917 ± 5	2776 ± 3	✓
	C.14-1	4:12	7.28	5.2	4696	303	10.8	.10	2592 ± 7	2740 ± 6	✓
	C.15-1	4:35	7.28	5.1	6723	442	29.4	.18	2593 ± 6	2728 ± 5	✓
	C.16-1	5:03	7.15	5.3	3588	243	17.1	.20	2569 ± 8	2704 ± 7	✓
	C2.3b-2	5:21	7.30	5.1	574	216	4.0	.06	530 ± 1	524 ± 33	✓
	C.17-1	5:45	7.34	5.2	1718	104	7.5	.19	2692 ± 12	2737 ± 10	✓ asnc
	C.18-1	6:07	7.13	5.3	1808	120	18.6	.42	2621 ± 11	2726 ± 11	✓ enc?
	C.19-1	6:40	7.05	5.3	2076	145	11.0	2.13	2517 ± 10	2690 ± 15	✓
	C.20-1	7:07	7.07	5.1	4319	312	168.8	1.51	2542 ± 7	2714 ± 9	✓
	C.21-1	7:36	7.69	5.2	13.9k	784	94.9	.35	2543 ± 4	2601 ± 4	✓
	C.22-1	8:00	7.54	5.3	13.2k	1193	93.5	.36	1762 ± 2	2343 ± 4	✓
	C2.3b-3	8:19	7.39	5.2	593	210	2.0	.02	536 ± 1	606 ± 31	✓