

UWA SHRIMP DATA LOG

Date: 12/9/99 UWA Mount No.: 98-100 Whose sample?: SB Operator(s): McN-SB

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

~~Precambrian~~ Count time (secs): 2 10 10 10~~10~~ 30/40* 10 5 5 2
~~Phanerozoic~~ Delay time (secs): 8 3 1 2 1 1 3 2 2

Steel: Wein volts / nA = 37V/4.1 for O⁻; = 46V/2.2 for O₂⁻; = 69V/14.0 for NO⁻

dead-time = 32 nanosecs expected resolution = >4200 actual resolution = 4971

aperture = eye 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 = 8.167 204-bkg = 0.045 204-206 = 1.002

206-207 = 1.000 206-208 = 2.000

Primary-epoxy = 2.0 nA Primary-CZ3 = 2.7 nA PESABM-CZ3 = 26 pA

Raster time (mins): 1 Raster aperture (microns): 120 No. of scans: 6

Comments: Standards n=9, error = 0.91
 (without 4.1 - last standard not good. Sudden dump in I⁰ beam current & SBM during analysis)

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?
	sl. 2-1	11:35	6.43	8.7	996	220	3.2	.28	571 ± 1	467 ± 41	✓
	sl. 3-1	11:53	6.55	8.4	1029	222	4.2	.26	572 ± 1	567 ± 25	
	B. 17-1	12:22	7.01	8.3	2115	88	4.0	.16	2172 ± 8	2690 ± 9	✓
	B. 18-1	12:41	7.75	8.36	1633	61	0.5	.02	2568 ± 12	2729 ± 9	
	sl. 6-1	13:03	6.87	8.2	1063	205	1.8	.14	565 ± 1	628 ± 24	✓
	B. 15-1	13:21	6.65	10.2k	2213	83	3.6	.14	2276 ± 8	2728 ± 9	
	B. 50-1	13:42	7.37	8.2k	1723	117	8.9	.48	1237 ± 4	2717 ± 12	
	B. 18-1	14:02	7.44	8.7	2056	101	7.5	.37	1554 ± 5	2738 ± 10	✓

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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	
	A.52-1	0:05	6.87	8.2	903	32	2.6	.22	2634 \pm 17	2693 \pm 15	✓
	A.52-2	0:22	6.96	7.4	1104	47	44.2	2.8	2331 \pm 14	2697 \pm 25	—
	SI-6-6	0:47	6.72	8.2	1058	214	4.6	.4	578 \pm 1	562 \pm 25	✓
	A.44-1	1:05	6.78	7.9	835	31	2.0	.18	2692 \pm 18	2671 \pm 18	.
	A.44-2	1:23	7.04	8.0	987	33	1.5	.13	2637 \pm 16	2692 \pm 13	✓
	A.46-1	1:40	6.96	7.8	1973	67	6.7	-26	2756 \pm 12	2695 \pm 9	✓
	A.53-1	1:59	6.45	7.9	1153	39	4.5	-29	2724 \pm 16	2746 \pm 12	✓
	A.54-1	2:18	7.58	7.8	1634	69	5.9	-34	1870 \pm 8	2706 \pm 11	✓
	SI.5-8	2:39	6.59	8.2	1035	219	3.2	.16	590 \pm 1	518 \pm 25	✓
	A.48-1	2:58	6.76	8.0	2152	79	6.2	.21	2677 \pm 11	2676 \pm 9	✓
	A.45-1	3:18	6.94	8.2	908	32	5.9	.51	2580 \pm 16	2729 \pm 15	✓
	A.55-1	3:37	6.87	8.1	1355	47	3.5	-19	2701 \pm 14	2667 \pm 11	✓
	A.56-1	4:00	7.00	7.9	1378	51	14.5	.82	2489 \pm 13	2739 \pm 14	✓
	A.57-1	4:19	6.98	7.9	726	25	9.7	1.0	2633 \pm 19	2740 \pm 21	✓
	A.58-1	4:38	6.90	7.9	1508	53	2.5	-12	2695 \pm 13	2751 \pm 10	✓
	SI.4-1	4:57	6.75	9.3	1129	213	3.9	.03	538 \pm 1	573 \pm 24	✓

Dodgy →
SEM jumped
up during
analysis.
⇒ possibly
corresponds to
sudden jump in
Pb beam ~~count~~
during this analysis