

UWA SHRIMP DATA LOG

Date: 24/9/99 UWA Mount No.: 99-53 Whose sample?: S B 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 10/20* 30/10* 10 5 5 2
Phanerozoic* Delay time (secs): 8 3 1 2 1 1 3 2 2

Steel: Wein volts / nA = 68V/5.5 for O⁻; = 44V/0.87 for O₂⁻; = 36V/1.1 for NO⁻

dead-time = 32 nanosecs expected resolution = >4200 actual resolution = 5216

aperture = 30* microns retardation lens = ~47 volts (see*) * Small spot !!

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 = 2.005

206-207 = 1.000 206-208 = 2.000

Primary-epoxy = 5.0 nA Primary-CZ3 = 6.1 nA PESABM-CZ3 = 4.8 pA

Raster time (mins): 1 Raster aperture (microns): 100 No. of scans: 6

Comments: * Retardation lens to ~50V : omit S-1?

Standards n=15

error = 1-2 %

(slope at 2.0)
actual = 2.42

O⁻ Beam.

Rejection over-ride	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?
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* →	S1.5-1	10:56	5.91	19.5	2034	220	1.1	.09	572 ± 1	538 ± 20	✓
	S1.5-2	11:16	5.89	19.5	1988	220	0.9	.08	566 ± 1	491 ± 26	✓
238/1	A.1-1	11:35	5.90	19.7	1369	26	.02	.02	2732 ± 15	2711 ± 11	
	A.2-1	11:55	5.77	19.7	1387	29	1.2	.11	2674 ± 14	2711 ± 10	
	S1.5-3	12:14	5.83	19.3	1981	222	0.3	.02	582 ± 1	509 ± 32	✓
238/1	A.1-2	12:37	5.82	19.8	2003	41	1.3	.08	2664 ± 12	2697 ± 9	✓
	A.4-1	12:56	5.86	20.8	1994	37	6.7	.05	2803 ± 12	2697 ± 9	
	A.6-1	13:15	5.86	20.1	3239	62	0.6	.03	2705 ± 9	2699 ± 7	

-171V +35V

2004



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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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	SI.5-4	13:34	5.80	18.8	1854	236	1.4	.04	540 ± 1	612 ± 18	
	A.7-1	13:58	6.00	18.5	1566	32	1.0	-.08	2584 ± 12	2680 ± 11	✓
	A.8-1	14:17	5.80	19.5	1748	36	-ve	-	2707 ± 12	2715 ± 9	
	A.8-2	14:35	5.85	19.6	1096	22	-ve	-	2704 ± 16	2713 ± 11	✓
	SI.5-5	14:53	5.88	18.9	1914	220	0.4	.03	566 ± 1	561 ± 18	✓
	A.5-1	15:13	5.90	20.0	1664	31	0.2	-.01	2706 ± 13	2689 ± 9	✓
	A.12-1	15:33	5.94	18.6	1652	33	-ve	-	2711 ± 13	2665 ± 9	✓
	A.10-1	15:55	5.89	19.2	1727	34	0.1	-.01	2732 ± 13	2709 ± 9	✓
	SI.5-6	16:15	5.71	18.6	1858	245	1.4	.08	556 ± 1	551 ± 18	
238/1	A.9-1	16:36	5.89	19.6	1622	31	0.2	-.02	2706 ± 14	2704 ± 9	✓
	A.13-1	16:58	5.61	21.1	2175	45	0.1	-.06	2758 ± 11	2698 ± 9	
	A.14-1	17:22	6.04	18.7	2474	46	0.7	-.04	2702 ± 11	2716 ± 8	
	SI.9-1	17:43	5.78	19.8	1953	222	0.9	-.08	577 ± 1	551 ± 18	✓
	A.14-2	18:00	5.99	19.7	3538	64	0.3	-.01	2730 ± 9	2708 ± 7	✓
	A.15-1	18:18	5.85	19.9	2177	43	0.8	-.05	2688 ± 11	2709 ± 8	✓
	A.17-1	18:37	5.80	18.9	1829	40	-ve	-	2629 ± 12	2698 ± 8	
	SI.9-2	19:01	5.77	19.9	1838	218	0.3	-.03	554 ± 1	609 ± 18	✓
	A.19-1	19:19	5.79	20.1	3207	65	0.4	-.02	2692 ± 9	2714 ± 7	
	A.20-1	19:37	5.69	20.4	3261	67	0.3	-.01	2740 ± 9	2706 ± 6	✓
	SI.9-3	20:40	5.85	20.6	2051	221	0.7	-.06	565 ± 1	578 ± 17	✓
	A.25-1	20:58	5.75	20.5	1149	23	0.3	-.04	2738 ± 16	2732 ± 16	
	A.22-1	21:17	5.88	18.8	1638	35	-ve	-	2612 ± 12	2719 ± 9	
	A.21-1	21:37	5.85	20.6	4313	81	0.3	-.01	2706 ± 8	2694 ± 6	✓
	A.31-1	21:59	5.80	20.3	1210	24	0.6	-.06	2681 ± 15	2689 ± 11	✓
	SI.9-4	22:17	5.77	20.2	1954	229	0.4	-.04	555 ± 1	575 ± 17	

Primary errors, turned off HV, then reloaded 10 settings.



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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	

	B.1-1	22:43	5.85	21.3	2830	54	0.8	.04	2626 ± 10	2678 ± 7	✓
	B.2-1	23:04	5.70	21.5	1697	30	0.3	.02	3000 ± 15	2950 ± 9	
	B.3-1	23:27	5.89	20.4	3296	72	11.8	.51	2364 ± 7	2641 ± 8	
	SI.9-5	23:48	5.89	20.4	2004	214	0.2	.02	562 ± 1	596 ± 16	✓
	B.4-1	0:05	5.99	20.7	2231	43	3.2	.22	2468 ± 10	2741 ± 8	
	B.6-1	0:24	5.93	21.7	6334	114	5.4	.13	2605 ± 6	2651 ± 5	✓
	B.7-1	0:46	5.74	20.2	5545	118	1.1	.03	2632 ± 7	2674 ± 5	✓
	SI.7-1	1:08	5.91	20.2	2010	211	-ve	-	572 ± 1	531 ± 17	✓
	B.14-1	1:32	5.81	20.7	7547	155	6.6	.12	2575 ± 6	2649 ± 5	
ThO/I	B.13-1	1:49	5.79	20.2	2498	50	2.1	.11	2680 ± 10	2660 ± 8	
	B.16-1	2:09	5.61	19.9	6053	141	1.8	.03	2647 ± 6	2662 ± 5	
	SI.7-2	2:28	5.83	20.7	2001	214	-ve	-	570 ± 1	510 ± 17	✓
	B.17-1	2:46	5.89	20.8	5174	97	0.0	0.0	2644 ± 7	2642 ± 5	
	B.18-1	3:16	5.79	19.1	2243	51	0.4	.02	2537 ± 10	2671 ± 8	
	B.19-1	3:35	5.84	20.1	5834	119	-ve	-	2598 ± 6	2659 ± 5	✓
	SI.7-3	3:58	5.92	21.1	2121	210	0.4	.04	576 ± 1	509 ± 16	
	B.23-1	4:25	5.59	23.5	3437	69	16.0	.63	2615 ± 8	2656 ± 8	✓
	B.25-1	4:46	5.82	20.7	9355	234	19.0	.28	2163 ± 4	2525 ± 5	✓
ThO/I	B.27-1	5:05	5.90	20.6	2748	51	-ve	-	2673 ± 10	2674 ± 7	✓
	SI.7-4	5:25	5.96	20.2	2089	216	0.6	.05	564 ± 1	569 ± 17	✓
	B.29-1	5:43	5.87	20.0	3830	77	1.2	.04	2611 ± 8	2648 ± 6	✓
	B.28-1	6:01	5.92	19.6	4604	93	0.6	.02	2578 ± 7	2643 ± 5	✓

Stage
runaway

Grain.
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