

Follow on from A-11

UWA SHRIMP DATA LOG

Date: 15-16/5/00      UWA Mount No.: 99-73      Whose sample?: ? Bryan Kraperz      Operator(s): N McN April

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 = ..... for O<sup>-</sup>; = 50 V ..... for O<sub>2</sub><sup>-</sup>; = ..... for NO<sup>-</sup>

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

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 = 8.163      204-bkg = 0.045      204-206 = 1.996

206-207 = 1.000      206-208 = 2.000      sensitivity 20.9

Primary-epoxy = 2.8 nA      Primary-CZ3 = 3.6 nA      PESABM-CZ3 = 61 pA

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

Comments: Peak shape ok.

Rejection override	Sample/ Std ID	Time - printout	UO/U	196 Kcps	206 cps	U ppm	204Pb ppb	f <sub>206</sub> %	Age ±1σ (Ma) 206/238    207/206	Offsets OK?
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	sl. 6-1	23:42	7.04	19.4	2001	220	0.4	.13	571 ± 1	674 ± 17	✓
	sl 6-2	24:04	7.00	23.4	2500	220	0.5	-.05	572 ± 1	618 ± 15	✓
	sl 6-3	24:25	7.10	22.0	2387	218	0.2	.02	565 ± 1	542 ± 19	✓
	sl 6-4	24:46	7.00	25.2	2779	224	0.4	-.02	582 ± 1	538 ± 15	✓
	E 1-1	01:07	7.26	25.3	7721	98	2.0	.05	2763 ± 6	2576 ± 5	✓
	E 2-1	01:26	6.67	25.8	3463	61	-ve	-.33	2549 ± 8	2621 ± 8	✓
	E.3-1	01:49	7.49	23.3	5140	83	1.9	.08	2257 ± 6	2587 ± 6	✓
	SL 8-1	02:13	6.92	26.7	2443	200	0.5	-.05	559 ± 1	546 ± 19	✓

adjustment  
 i<sup>0</sup> extremely spiky & unstable.  
 i<sup>0</sup> v. stable  
 i<sup>0</sup> dropped → 3.4 nA → from scan 4 to 20 onwards  
 i<sup>0</sup> = 3.9 nA o.k.  
 i<sup>0</sup> = 3.9 nA o.k. - noisy  
 i<sup>0</sup> = 3.9 nA stable but bec v. unstable from scan 3  
 i<sup>0</sup> drop 4 → 3.2 nA → after 4 scans like before on All.  
 i<sup>0</sup> = 3.6 nA stable

← i<sup>0</sup> ext unstable

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Rejection over-ride    Sample/Std ID    Time - printout    UO/U    196 Kcps    206 cps    U ppm    204Pb ppb    f<sub>206</sub> %    Age ±1σ (Ma) 206/238    207/206    Offsets OK?

*10=3.8 OK*  
*Scan 5*  
*10 went crazy again*  
*10=2.8nA v. stable*  
*10=2.8 stable*  
*grad 10=2.8 dropped → 2.4 Kcps way*  
*grad 10=2.8 dropped → 2.4 Kcps way*  
*10 stable @ 2.4nA*  
*10 drifted ↓*  
*10 stable @ 2.4nA*  
*10=2.6nA stable*

Rejection over-ride	Sample/Std ID	Time - printout	UO/U	196 Kcps	206 cps	U ppm	204Pb ppb	f <sub>206</sub> %	Age ±1σ (Ma) 206/238	207/206	Offsets OK?
	E.4-1	2:36	7.14	23.6	2899	44	2.0	.12	2640 ± 9	2672 ± 8	✓
	E.5-1	3:02	7.15	17.0	2513	54	1.0	.05	2602 ± 10	2634 ± 8	✓
	s1.8-2	3:21	7.20	17.2	2030	221	1.0	.04	581 ± 1	560 ± 17	✓
	E.6-1	3:42	7.31	15.7	1277	28	1.0	.10	2580 ± 14	2598 ± 11	✓
	E.7-1	4:01	7.35	15.8	2287	47	1.0	.06	2659 ± 11	2616 ± 8	✓
	E.8-1	4:21	7.03	15.7	3653	88	0.8	.03	2619 ± 8	2596 ± 6	✓
	E.9-1	4:39	7.10	13.9	2197	55	0.7	.03	2728 ± 11	2639 ± 8	✓
	E.10-1	5:02	7.59	14.5	1537	32	1.8	.15	2617 ± 13	2627 ± 11	✓
	s1.8-3	5:21	7.41	13.8	1670	213	2.1	.02	572 ± 1	554 ± 15	✓
	E.11-1	5:42	7.10	13.7	1503	40	2.3	.16	2650 ± 13	2602 ± 11	✓
	E.12-1	6:00	7.34	14.7	728	16	1.3	.21	2686 ± 19	2621 ± 18	✓
	E.13-1	6:24	7.14	14.9	9605	226	5.4	.06	2679 ± 5	2633 ± 4	✓
	E.14-1	6:46	7.38	13.3	1436	37	2.4	.19	2537 ± 13	2652 ± 11	✓
	E.15-1	7:05	7.41	14.1	1984	49	2.6	.16	2478 ± 10	2603 ± 9	✓
	s1.8-4	7:32	7.23	15.2	1814	217	0.5	.04	592 ± 1	534 ± 25	✓
	E.16-1	7:44	7.20	15.7	1007	23	0.9	.10	2631 ± 16	2636 ± 13	✓
	E.17-1	8:02	7.10	14.5	2637	62	2.5	.10	2785 ± 11	2646 ± 8	✓
	E.18-1	8:20	7.30	14.7	1474	33	3.0	.24	2666 ± 13	2626 ± 12	✓
	E.19-1	8:39	7.48	14.6	1883	39	1.7	.12	2692 ± 12	2631 ± 5	✓
	E.20-1	8:58	7.22	14.9	5176	116	1.6	.04	2709 ± 7	2621 ± 5	✓

Not spiky

⊗ adj current slightly.