

UWA SHRIMP DATA LOG

SHRIMP A

Date: 12/11/03      UWA Mount No.: 03-41      Whose sample?: Marco      Operator(s): AP/MG

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

Precambrian Count time (secs): 2 10 10 10/20\* ~~30/10\*~~ 10 5 5 2 2

Phanerozoic\* Delay time (secs): ~~82~~ 3 1 2 1 1 3 2 2 8

Steel: Wein volts / nA = 66/18 for O<sub>2</sub><sup>-</sup>; = 44/2.6 for O<sub>2</sub><sup>-</sup>; = 35/3.9 for NO<sub>2</sub><sup>-</sup>

dead-time = 24 nanosecs      expected resolution = >4200      actual resolution = 4430

aperture = 100 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 = 8.170      204-bkg = 0.045      204-206 = ~2.000

206-207 = ~1.000      206-208 = ~2.000

Primary-epoxy = 2.4 nA      Primary-CZ3 = 3.2 nA      PESABM-CZ3 = 50 pA

Raster time (mins): 1      Raster aperture (microns): 50      No. of scans: 5

Comments: Pb/U = 0.1848      UO/U = 6.1875      conc. std = 1.9458      Sensitivity: ~~4.50~~ 16.6

A = 46 more (→ ~ 66 total)  
 C = rest of the time.

A<sub>T</sub> = 46  
 C<sub>T</sub> = 6

Rejection over-ride	Sample/ Std ID	Time - printout	UO/U	196 Kcps	206 cps	U ppm	<sup>204</sup> Pb ppb	f <sub>206</sub> %	Age ±1σ (Ma) 206/238	207/206	Offsets OK?
	C2-2-5	11:54	6.19	18	1700	238	1.7	0.14	571 ± 4	545 ± 49	✓
	C2-5-8	12:13	6.45	17	1800	258	-	-	571 ± 3	589 ± 35	✓
	A-21-1	12:32	6.22	17	8100	335	-	-	1842 ± 16	2099 ± 28	✓
	A-22-1	12:52	6.52	17	460	266	1.4	0.43	143 ± 1	222 ± 68	✓
	C2-5-9	13:08	6.20	18	1800	251	1.2	0.10	568 ± 4	583 ± 47	✓
	A-23-1	13:24	5.82	16	410	21	2.2	0.65	1700 ± 30	1619 ± 75	✓
	A-24-1	13:41	6.32	17	330	84	1.7	0.75	322 ± 4	411 ± 191	✓
	A-25-1	14:00	6.71	16	1600	526	2.5	0.23	251 ± 1	195 ± 53	✓

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Rejection over-ride	Sample/ Std ID	Time - printout	UO/U Kcps	196 cps	206 cps	U ppm	204Pb ppb	f <sub>206</sub> %	Age ±1σ (Ma) 206/238	207/206	Offsets OK?
									↑	↓↓	
	C2.5-10	14:16	6.27	17	1800	248	1.4	0.11	587 ± 6	391 ± 54	✓
	A.26-1	14:31	6.39	16	1000	125	0.7	0.10	661 ± 6	595 ± 69	✓
	A.27-1	14:47	6.31	16	550	247	2.1	0.50	201 ± 2	86 ± 149	✓
	C2.7-1 <del>A.28-1</del>	16:01	6.75	16	1800	258	0.8	0.06	668 ± 5	600 ± 43	✓
	A.28-1	16:17	6.43	16	200	80	0.9	0.60	221 ± 3	159 ± 202	✓
	A.29-1	16:35	6.35	16	310	115	2.1	3.07	231 ± 4	195 ± 366	✓
	A.30-1 <del>C2.5-11</del>	16:50	5.96	17	330	23	1.5	0.57	1213 ± 35	1230 ± 99	✓
	C2.5-11	17:08	7.17	11	1500	266	-	-	590 ± 6	562 ± 43	✓
	A.31-1	17:25	6.45	16	920	77	2.0	0.30	975 ± 10	1099 ± 47	✓
	C2.5-12	17:41	6.47	16	1800	258	0.0	-	578 ± 4	655 ± 30	✓
	A.32-1	17:59	6.01	16	410	22	2.7	0.81	1600 ± 28	1854 ± 66	✓
	A.33-1	18:15	6.62	16	510	386	2.3	0.62	115 ± 1	-	✓
	A.34-1	18:32	6.75	15	260	172	1.6	0.81	136 ± 2	-	✓
	A.35-1	18:47	6.59	15	780	112	1.0	0.16	605 ± 5	605 ± 54	✓
	A.36-1	19:02	6.19	16	1200	140	1.1	0.11	793 ± 7	766 ± 41	✓
	C2.5-13	19:19	6.66	15	1700	261	-	-	570 ± 14	638 ± 49	✓
	A.37-1	19:40	6.39	14	260	235	0.5	0.22	112 ± 1	299 ± 192	✓
	A.38-1	19:56	6.65	14	850	313	0.8	0.11	256 ± 2	210 ± 66	✓
	A.39-1	20:13	6.84	14	240	68	1.9	1.01	324 ± 5	-	✓
	A.40-1	20:29	5.94	13	2500	493	0.3	0.01	598 ± 3	571 ± 27	✓
	A.41-1	20:45	6.62	14	5900	230	1.3	6.03	2172 ± 21	2810 ± 18	✓
	A.42-1	21:01	6.64	13	4300	933	8.0	0.22	459 ± 2	521 ± 35	✓
	C2.5-14	21:35	6.16	13	1300	263	1.6	0.13	545 ± 4	532 ± 49	✓
	A.43-1	21:19	6.44	13	680	156	3.5	0.58	447 ± 5	564 ± 118	✓
	A.44-1	21:54	6.29	12	97	104	10.8	11.1	99 ± 3	-	✓

computer froze →

I<sup>0</sup> ↓ from 3 → 2.8 nA  
during last scan.I<sup>0</sup> = 2.8 nA

Rejection over-ride Sample/ Std ID Time - printout UO/U Kcps 196 206 U 204Pb f206 Age ±1σ (Ma) 206/238 207/206 Offsets OK?

Rejection over-ride	Sample/ Std ID	Time - printout	UO/U Kcps	196 Kcps	206 cps	U ppm	204Pb ppb	f206 %	Age ±1σ (Ma) 206/238	207/206	Offsets OK?
	A45-1	22:10	6.05	14	2200	184	5.7	0.29	1182±31	1728±55	✓
	A46-1	22:28	6.67	14	610	222	2.2	0.44	266±2	277±113	✓
	A47-1	22:45	6.68	13	350	205	1.0	0.32	176±2	299±159	✓
	A48-1	23:01	6.21	13	330	145	5.4	1.75	248±3	46±225	✓
	C23.5-11	23:18	5.66	14	1200	250	2.3	0.19	548±4	565±51	✓
	A49-1	23:36	6.50	14	580	240	9.7	1.98	237±2	-	✓
	A50-1	23:52	6.68	13	1500	616	4.1	0.31	250±1	158±57	✓
	A51-1	00:09	6.66	13	1500	70	1.4	0.11	1857±21	1845±24	✓
	A52-1	00:25	6.23	13	130	48	0.8	0.61	309±5	324±215	✓
	A53-1	00:42	6.50	11	430	38	6.1	1.37	1263±21	1336±95	✓
	A54-1	01:00	7.03	12	1100	74	0.5	6.05	1444±17	1448±28	✓
	C23.5-12	01:48	6.07	15	1400	243	0.3	0.02	569±4	550±44	✓
	A55-1	01:34	6.64	13	1000	202	5.4	0.59	517±12	585±95	✓
	A56-1	01:52	6.63	13	4000	242	2.6	0.08	1481±9	1263±14	✓
	A57-1	02:08	6.70	13	180	10	0.7	0.45	1781±66	1838±94	✓
	A58-1	02:24	6.47	12	480	49	4.4	0.98	1019±17	870±121	✓
	C23.5-13	03:08	6.05	13	1200	257	0.6	0.05	559±4	588±60	✓
	A59-1	03:26	6.07	12	270	261	13.9	4.8	126±2	-	✓
	A60-1	03:42	6.80	12	890	399	1.0	0.13	236±2	232±81	✓
	A61-1	04:02	7.42	10	970	108	4.6	0.50	959±13	921±59	✓
	A62-1	04:19	6.60	12	600	55	1.3	0.23	1120±15	1128±64	✓
	A63-1	04:35	6.21	11	630	397	4.1	0.58	210±2	-	✓
	A64-1	04:50	6.04	11	890	158	3.4	0.32	712±7	796±61	✓
	C23.5-14	05:07	6.56	12	1400	265	2.8	0.22	553±4	528±49	✓
	A65-1	05:24	7.25	11	180	68	7.2	4.3	277±5	-	✓

Crashed  
restart

