

UWA SHRIMP DATA LOG

Date: 26/3/00 UWA Mount No.: 99-87 Whose sample?: April's Operator(s): IF & 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* 30/10* 10 ✓ 5 ✓ 5 ✓ 2 ✓
Phanerozoic* Delay time (secs): 8 3 1 2 1 1 3 2 2

^{C23} Steel: Wein volts / nA = 36V/11 for O⁻; = 46V/1.6 for O₂⁻; = 70V/2.2 for NO⁻

dead-time = 32 nanosecs expected resolution = >4200 actual resolution = 5336

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 = 8.168 204-bkg = 0.045 204-206 = 1.995

206-207 = 1.000 206-208 = 2.000

Primary-epoxy = 1.2 nA Primary-CZ3 = 1.6 nA PESABM-CZ3 = 23 pA

Raster time (mins): 2 Raster aperture (microns): 120 No. of scans: 7

Sensitivity = 18.

Comments: A = CN118-19
 E = CN111-16

*1 std = 11 exc. c25-4 (↓UO/U)
 σ (Slope 2) = 1.82%
 (σ < Actual 2.18) = 1.31%*

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

	C2 6-1	12:00	7.94	7.2	922	220	2.0	.08	572 ± 1	578 ± 21	✓
	C2 6-2	12:36	7.18	7.5	808	250	-ve	-	561 ± 1	621 ± 21	✓
	A. 1-1	13:06	7.92	7.1	3147	166	2.5	.05	2300 ± 7	2421 ± 6	✓
↓	A. 2-1	13:28	6.56	7.0	2118	225	1.2	.02	2013 ± 6	2360 ± 8	✓
↓	A. 3-1	13:50	6.86	7.3	2426	205	2.9	.05	2127 ± 6	2330 ± 8	✓
	C2. 5-1	14:13	7.98	6.9	893	213	-ve	-08	587 ± 1	578 ± 22	✓
	A. 4-1	14:38	7.10	7.0	1840	126	2.7	.07	2404 ± 9	2454 ± 8	✓ OK
	A. 5-1	15:00	7.90	7.1	2969	174	7.5	.16	2112 ± 6	2267 ± 7	✓

A
 p=1.6

p=1.5

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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?
	A.6-1	15:23	8.10	7.0	2814	143	3.6	.08	2283 ± 7	2383 ± 7	✓
	A.7-1	15:45	6.16	6.4	1737	248	4.6	.07	2003 ± 6	2339 ± 9	✓
	C2.5-2	16:08	7.96	6.6	843	217	0.4	.05	577 ± 1	579 ± 22	✓
	C2.5-3	17:01	6.97	7.6	765	256	0.7	.05	559 ± 1	518 ± 27	✓
	A.8-1	17:23	6.41	7.3	2173	220	4.4	.07	2167 ± 6	2321 ± 8	✓
	A.9-1	17:45	7.87	7.8	2448	116	5.4	.15	2354 ± 8	2371 ± 8	✓
	A.10-1	18:08	7.53	7.5	2462	129	2.6	.06	2472 ± 8	2474 ± 7	✓ o.k.
	A.11-1	18:30	7.83	7.6	3242	168	7.9	.16	2261 ± 6	2323 ± 7	✓
	A.12-1	18:52	7.02	7.6	2240	149	8.1	.07	2356 ± 8	2436 ± 7	✓
	C2.5-4	19:15	5.94	6.9	549	347	3.4	.20	535 ± 1	401 ± 50	same grain ✓ as C2.5-3!
	C2.5-5	19:37	7.90	7.6	962	218	2.1	.04	579 ± 1	570 ± 21	✓
	A.14-1	19:59	7.55	8.6	5864	230	8.4	.15	1978 ± 5	2205 ± 7	✓
	A.13-1	20:21	7.33	7.9	3004	205	2.9	.06	2014 ± 5	2253 ± 7	✓
	A.15-1	20:48	7.66	7.8	3155	170	1.7	.03	2250 ± 6	2327 ± 6	✓
	A.16-1	21:10	7.50	8.1	1792	83	4.2	.14	2584 ± 10	2506 ± 9	✓
	A.17-1	21:32	5.95	7.1	1616	203	4.0	.07	2249 ± 8	2400 ± 9	✓
	C2.5-6	21:54	7.76	7.8	959	221	0.2	.02	585 ± 1	588 ± 26	✓
	A.18-1	22:16	7.86	7.8	3250	146	2.8	.06	2488 ± 7	2458 ± 6	✓ ok.
	A.19-1	22:38	7.39	7.7	3139	175	2.4	.04	2407 ± 7	2409 ± 6	✓
	A.20-1	23:00	6.99	7.9	2723	190	4.6	.09	2219 ± 6	2363 ± 7	✓
	A.21-1	23:22	7.71	7.8	2812	145	3.9	.09	2299 ± 7	2400 ± 7	✓
	A.22-1	23:44	6.98	8.8	3325	315	10.4	.19	1555 ± 3	1762 ± 9	✓
	C2.5-7	24:06	7.82	7.6	957	221	1.7	.08	583 ± 1	585 ± 21	✓
	A.23-1	24:29	7.03	7.8	1992	127	1.6	.04	2395 ± 8	2432 ± 8	✓
	A.24-1	24:51	6.59	7.8	1807	142	1.8	.04	2360 ± 8	2487 ± 8	✓

$I^0 = 1.4 \text{ nA}$
 adj. duo \downarrow P from 440 to 390
 & \uparrow current to 190 nA
 $I^0 = 1.6 \text{ nA}$
 not artefacts & failures

not artefacts & failures

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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?
	A-25-1	01:15	7.45	8.2	2877	152	4.4	.09	2323 ± 7	2398 ± 7	✓
	A-26-1	01:37	7.68	8.0	2371	111	2.3	.06	2455 ± 8	2420 ± 8	✓
	A-27-1	01:59	7.64	7.9	3073	154	6.8	.14	2381 ± 7	2389 ± 7	✓
	A-28-1	02:20	7.65	7.8	3317	163	2.2	.04	2445 ± 7	2438 ± 6	✓
	CZ 4-1	02:46	7.81	7.7	948	220	0.0	.06	577 ± 1	583 ± 21	✓
	A-29-1	03:08	7.91	7.7	2485	113	-ve	.03	2460 ± 8	2445 ± 8	✓
	A-30-1	03:29	7.52	7.8	1846	93	1.5	.05	2476 ± 9	2452 ± 8	✓
	A-31-1	03:51	7.52	8.1	2362	115	3.0	.08	2472 ± 8	2453 ± 8	✓
	A-32-1	04:13	7.82	7.7	3067	141	2.7	.06	2481 ± 8	2439 ± 6	✓
	A-33-1	04:35	7.72	7.7	2220	104	-ve	-	2521 ± 9	2472 ± 7	✓
	A-34-1	04:57	7.65	8.1	3361	174	4.2	.08	2276 ± 6	2351 ± 6	✓
	CZ 4-2	05:19	7.66	7.7	925	225	0.3	.08	579 ± 1	518 ± 22	✓
	A35-1	05:41	6.78 [?]	7.6	2541	190	2.3	.04	2328 ± 7	2422 ± 7	✓
	A36-1	6:02	7.18	7.7	2843	172	2.0	.04	2415 ± 7	2424 ± 7	✓
	E1-1	6:25	7.71	7.7	1665	78	1.7	.07	2523 ± 10	2472 ± 9	✓
	E2-1	6:48	7.58	7.6	593	28	1.1	.11	2619 ± 18	2447 ± 16	✓
	E3-1	7:10	7.75	7.7	3483	191	4.5	.09	2175 ± 6	2314 ± 6	✓
o.k.	E4-1	7:31	6.92 [?]	7.7	530	36	3.8	.33	2369 ± 16	2483 ± 17	✓
	CZ 16-1	7:54	7.55	7.7	933	235	1.0	.04	584 ± 1	575 ± 21	✓
	E5-1	8:16	7.26	7.9	1154	63	3.0	.14	2505 ± 12	2464 ± 11	✓
	E6-1	8:39	7.56	7.5	478	24	0.0	.03	2549 ± 20	2449 ± 20	✓

A

E