

UWA SHRIMP DATA LOG

Date: 15/4/00 UWA Mount No.: 99-87 Whose sample?: AP Operator(s): Mc N + 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

Steel: Wein volts / nA = 28V/12.0 for O⁻; = 52V/3.4 for O₂⁻; = 4.2V/4.0 for NO⁻
 11.0 2.5 3.6

dead-time = 32 nanosecs expected resolution = >4200 actual resolution = 5100

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 = 8.166 204-bkg = 0.045 204-206 = 2.001

206-207 = 1.000 206-208 = 1.999

Primary-epoxy = 3.2 nA Primary-CZ3 = 4.5 nA PESABM-CZ3 = 57 pA

Raster time (mins): 1→2 Raster aperture (microns): 120 No. of scans: 7

Comments: 99-87E = CN 111-16
 D = Mostly metamict grains.

Used nstd = 13 $\sigma = 1.52\%$
 (σ Actual 2.03 = 1.52%)

excl. 18-3 (u/u), 10-2 & 10-1 (very unstable)

NB: DUOZ very sensitive & unstable.
 2 or plus Z deflections.

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?
	sl. 9-1	10:31	6.60	22.2	2088	220	0.4	.04	572 ± 1	483 ± 19	✓
	sl. 9-2	10:53	6.85	22.6	2126	209	0.4	.04	541 ± 1	554 ± 24	✓
	E. 7-1	11:16	7.17	25.0	5790	85	4.0	.14	2458 ± 5	2462 ± 5	✓
	sl. 10-1								abated! 1° all over the place		
	sl. 10-1	12:07	6.14	24.7	18.11	241	1.2	.11	512 ± 1	591 ± 22	✓
	sl. 10-2	12:33	6.78	21.5	1946	229	0.2	.16	491 ± 1	587 ± 15	✓
	sl. 10-3	13:11	6.58	29.1	2452	212	0.2	.02	540 ± 1	550 ± 39	✓
	sl. 18-1	14:05	6.80	22.6	2091	208	-ve	.007	546 ± 1	576 ± 14	✓

1° dipped → 1st del scan 2 206 → 40 half of frame
 1° 4.4-4.6 nA
 1° = 4.6 nA ↓ to 4 nA
 1° = 4.8 v. noisy. 1° ↓ 4.5 nA not scan 1
 1° = 4.8 v. noisy 1° ↓ 2.1 nA not scans
 1° = 5.2 nA
 1° = 4.2 nA (less noisy of above)

1 min raster
 2 min

* adj current from 100 → 110 nA → 1° @ 4.2 nA.

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?

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?
	sl 18-2	14:31	6.75	21.5	1997	215	-ve	.001	542 ± 1	565 ± 14	✓
	E.8-1	14:56	5.11	19.5	1814	116	-ve	-	2464 ± 8	2289 ± 8	✓
	E.9-1	15:25	6.24	26.2	3514	77	0.9	.04	2390 ± 6	2483 ± 6	✓
	sl 18-3	16:00	5.02	13.4	782	439	-ve	-	476 ± 1	597 ± 21	✓ * Exc
	sl 18-4	16:26	6.83	20.5	1871	206	-ve	-	536 ± 1	539 ± 14	✓ * 3
	sl 18-5	17:05	7.13	12.3	1303	203	-ve	-	559 ± 1	600 ± 16	✓
	E.10-1	17:35	6.47	17.6	5884	220	6.8	.13	1938 ± 3	2203 ± 6	✓
	E.11-1	17:59	7.04	17.5	7154	175	6.0	.12	2255 ± 4	2435 ± 4	✓
	E.12-1	18:23	7.22	17.0	1674	42	14.3	1.24	2136 ± 8	2390 ± 16	✓
	sl 18-6	18:46	6.98	18.3	1787	204	-0.6	.03	547 ± 1	543 ± 15	✓
	E.13-1	19:09	7.03	16.7	2174	54	3.2	.19	2332 ± 8	2447 ± 8	✓ NB at end of analys. 206 → 207, 206 offset changing by .002
	E.14-1	19:34	6.88	18.3	2488	60	3.8	.20	2322 ± 7	2476 ± 8	✓ adj.
	E.15-1	20:03	5.40	14.1	2755	212	0.7	.01	2147 ± 5	2444 ± 7	✓
	E.16-1	20:27	6.61	19.7	4658	107	11.0	.30	2502 ± 6	2463 ± 6	✓
	E.17-1	20:56	6.73	16.5	1205	34	6.2	.58	2309 ± 10	2458 ± 14	✓
	sl 17-1	21:21	7.11	15.6	1616	211	0.7	.07	529 ± 1	594 ± 16	✓
	E.18-1	21:46	6.92	14.6	3802	115	10.8	.31	2290 ± 6	2429 ± 7	✓
	E.19-1	22:13	7.07	14.9	4909	143	1.2	.03	2201 ± 5	2482 ± 5	✓
	E.20-1	22:37	6.36	15.0	1885	65	1.3	.06	2491 ± 9	2497 ± 8	✓
	E.21-1	22:59	6.93	14.8	1450	44	1.4	.11	2250 ± 9	2474 ± 10	✓
	E.22-1	23:28	6.97	16.2	4354	110	5.1	.14	2398 ± 6	2473 ± 6	✓
	sl 17-2	23:51	7.00	16.2	1734	217	-ve	.06	556 ± 1	504 ± 16	✓
	E.2-2	24:16	6.99	16.3	1354	34	2.2	.21	2401 ± 10	2453 ± 10	✓
	E.23-1	24:44	7.32	15.3	5789	169	(52.6)	1.25	1973 ± 4	2252 ± 9	✓
	E.24-1	1:16	6.86	14.9	1752	45	1.6	0.10	2632 ± 10	2487 ± 9	✓

*2 ↓ Kohler, ↓ Matching.
Adj Duo vs. Matching.

*2 ↓ matching, ↓ duo ↑ current.
I⁰ → 2nA.

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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?

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?
	E24-2	1:39	6.61	14.1	814	29	3.8	.43	2287 ± 12	2433 ± 7	✓
	E.25-1	2:08	6.91	14.6	1223	37	4.9	.43	2312 ± 10	2481 ± 13	✓
	sl.17-3	2:31	7.18	15.4	1686	211	0.2	.02	547 ± 1	536 ± 16	✓
	E26-1	2:53	7.30	14.4	3950	96	4.2	.13	2447 ± 6	2457 ± 6	✓
	E.27-1	3:20	6.92	16.7	6094	193	10.7	.22	1974 ± 3	2256 ± 6	✓
	E.28-1	3:42	7.11	16.6	6383	214	12.3	.27	1758 ± 3	2052 ± 6	✓
	E.29-1	4:04	6.65	14.9	4831	164	1.9	.04	2269 ± 5	2461 ± 5	✓
	E.4-2	4:26	7.14	15.2	1421	35	1.7	.15	2447 ± 10	2450 ± 10	✓
	sl.17-4	4:50	7.21	15.6	1775	207	0.1	.006	570 ± 1	563 ± 15	✓
	D.1-1	5:16	6.70	15.7	2308	67	14.1	.65	2409 ± 8	2494 ± 10	✓
	D.2-1	5:39	7.09	15.5	2962	74	11.6	.49	2407 ± 7	2383 ± 9	✓
	D.3-1	6:07	7.12	16.0	6279	233	248.1	5.42	1579 ± 3	2046 ± 18	✓
	D.4-1	6:40	6.83	15.1	4381	-	-	-	-	2468 ± 5	✓
	sl.17-5	7:05	7.16	14.0	1543	220	0.5	.001	572 ± 1	556 ± 17	✓
	D.5-1	7:30	6.55	12.0	1320	47	13.9	.75	2833 ± 13	2447 ± 14	✓
	D.6-1	7:54	7.08	14.6	4703	148	22.6	.53	2227 ± 5	2342 ± 7	✓
	D.7-1	8:28	7.57	14.7	6482	196	22.7	.48	1949 ± 3	2170 ± 6	✓

i = 3.4 nA

starting to discintegrate. unstable 10

Acquisition freeze

spiky. del scan 2 overlap with 204. del scan 4 A.

del 196, scan 2 (sharp ↓ 1/10)

o.k.

x

My god what were you thinking?

OK

* del scan 2: 208 → 40
 Scan 3: 196 → 207
 Scan 6: Bgd → 40
 Scan 7: 196 & 204