

196 cps ≈ 31,000

UWA SHRIMP DATA LOG

Date: 18/3/00 UWA Mount No.: 99-85, 99-82 Whose sample?: AP Operator(s): McW + 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 = 62V/16.0 for O⁻; = 36V/2.6 for O₂⁻; = 26V/3.8 for NO⁻

dead-time = 32 nanosecs expected resolution = >4200 actual resolution = 4765
 aperture = ? microns retardation lens = 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 = 2.003
 206-207 = 1.000 206-208 = 2.000

Primary-epoxy = 2.5 nA Primary-CZ3 = 3.3 nA PESABM-CZ3 = 52 pA

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

Comments: I = DDH 42-14

NB: Problems with sample charging for 982 & 985! stopped 11:15p

nstd = 7 (excluded 40-2 & 23-1; UO/U ↓↓)
 δ (slope 2) = 1.04% (Actual 2.04 = 1.04%)

Rejection over-ride	Sample/ Std ID	Time - printout	UO/U	196 Kcps	206 cps	U ppm	204Pb ppb	f ₂₀₆ %	Age ±1σ (Ma) 206/238	207/206	Offsets OK?
	S/41-1	10:21	6.85	17.5	1487	220	0.8	.07	572 ± 1	541 ± 23	✓
	S/41-2	10:42	6.65	17.4	1431	232	1.6	.13	572 ± 1	512 ± 23	✓
	I.1-1	11:06	5.16	12.4	1966	339	37.4	.54	1661 ± 4	2293 ± 11	✓
	S/41-3	11:38	6.79	16.6	1434	229	0.0	/	576 ± 1	570 ± 16	✓
	I.2-1	11:57	5.80	15.1	2020	165	3.7	.10	1837 ± 5	2359 ± 8	✓
	I.3-1	12:34	6.84	18.7	3720	127	6.9	.20	2066 ± 5	2408 ± 7	✓
	I.4-1	12:56	6.28	17.8	2944	131	22.2	.61	2137 ± 5	2425 ± 9	✓

shitty data alot failures
 low Uo/U + 196 cps 206-208

Errors on 10 → HV of

slightly ↑ slightly ↓ slightly ↓

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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?	
	SI.41-4	13:20		6.84	16.7	1433	226	0.5	.04	567 ± 1	555 ± 17	✓
	I.5-1	13:41	slightly ↓	6.42	16.8	2073	82	10.5	.41	2349 ± 7	2465 ± 10	✓
	I.6-1	14:02	slightly ↓	6.49	16.1	4685	193	4.7	.08	2281 ± 5	2407 ± 5	✓
	I.7-1	14:24		6.80	16.4	2574	82	10.4	.38	2492 ± 8	2431 ± 9	✓
	SI.40-1	14:48		6.89	16.4	1417	218	0.2	.02	578 ± 1	538 ± 17	✓
Shitty data, 196, 206 → u0u	I.8-1	15:13	slightly ↓	6.42	17.9	5425	268	22.0	.36	1847 ± 3	2246 ± 6	✓
" 206 → u0u	I.9-1	15:39		6.77	16.9	5106	193	16.0	.30	2118 ± 4	2399 ± 6	✓
	I.10-1	16:01	slightly ↓	6.37	17.2	2159	92	16.5	.62	2215 ± 7	2435 ± 10	✓
	I.11-1	16:23		6.77	16.0	5393	185	5.9	.10	2405 ± 5	2431 ± 5	✓
	SI.40-2	16:44		6.78	16.6	1470	226	ve	-	595 ± 1	517 ± 16	✓
alot fail 206 → u0	I.12-1	17:06		6.32	16.4	3103	145	4.8	.12	2175 ± 5	2423 ± 7	✓
	I.13-1	17:33		6.56	17.0	1327	46	6.4	.43	2476 ± 10	2456 ± 12	✓
" 196, 206 → u0	I.14-1	17:59		6.69	19.8	6809	379	42.6	.73	1352 ± 2	1909 ± 8	✓
	I.15-1	18:20		6.62	17.1	5974	277	15.4	.24	1866 ± 3	2350 ± 5	✓
	SI.40-3	18:42		6.93	16.7	1450	218	0.6	.03	571 ± 1	545 ± 17	✓
	I.16-1	19:04		6.95	16.2	5923	203	7.6	.13	2230 ± 4	2373 ± 5	✓
	I.17-1	19:26		6.80	16.3	3259	166	18.4	.54	1660 ± 3	2373 ± 8	✓
"	I.18-1	19:50		7.15	16.0	3887	120	4.9	.13	2316 ± 6	2420 ± 6	✓
Yuck "	I.19-1	20:16		6.67	17.5	6230	356	31.0	.49	1487 ± 2	2148 ± 7	✓
u0u ↓	I.20-1	20:42		6.95	18.4	6858	190	7.2	.12	2407 ± 4	2408 ± 4	✓
	I.21-1	21:07		5.95	10.9	1024	91	2.4	.09	2107 ± 8	2589 ± 11	✓
	SI.40-4	22:10		7.35	11.7	814	175	ve	.03	484 ± 1	542 ± 23	✓
	SI.23-1	23:07		3.17	3.6	85	-2893	-	-	560 ± 2	587 ± 65	✓

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↓ = charging