

UWA SHRIMP DATA LOG

Date: 7/03/02 UWA Mount No.: B-94 Whose sample?: Nat K Operator(s): IF + NK

Indicate any change to the following: 196 204 bkg 206 207 208 238 248 254 ~~270~~ ¹⁴⁶

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

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

Resin
Steel: Wein volts / nA = 91/14 for O₂; = 63/3.2 for O₂; = 52/8.7 for NO₂

dead-time = 32 nanosecs expected resolution = >4200 actual resolution = 4580

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 = 8.170 204-bkg = 0.045 204-206 = 1.999

206-207 = 1.000 206-208 = 2.000

Primary-epoxy = 3.2 nA Primary-CZ3 = 4.4 nA PESABM-CZ3 = 63 pA

Raster time (mins): 2 Raster aperture (microns): 55 No. of scans: 5

Comments: *sensitivity = 18.5*
labels
N. M. - x report (B-94 assumed)
photo - given (just for convenience)

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?
	<u>C23.83-1</u>	<u>10:20</u>	<u>6.26</u>	<u>25</u>	<u>2600</u>	-	<u>0.3</u>	<u>.03</u>	-	<u>565</u>	<u>✓</u>
	<u>C23.83-2</u>	<u>10:35</u>	<u>6.21</u>	<u>25</u>	<u>2500</u>	<u>238</u>	<u>1.9</u>	<u>.06</u>	<u>571</u>	<u>505</u>	<u>✓</u>
	<u>B94-0-1</u>	<u>10:55</u>	<u>6.36</u>	<u>26</u>	<u>8500</u>	<u>165.7</u>	<u>801.6</u>	<u>.2118</u>	<u>1.868 ± 507</u>	<u>782 ± 1122</u>	<u>✓</u>
	<u>B94.2-1</u>	<u>11:14</u>	<u>5.84</u>	<u>25</u>	<u>1100</u>	<u>191.7</u>	<u>1.0</u>	<u>.00017</u>	<u>2915 ± 14</u>	<u>2947 ± 6</u>	<u>✓</u>
	<u>B94.3-1</u>	<u>11:37</u>	<u>6.34</u>	<u>26</u>	<u>7200</u>	<u>131.2</u>	<u>233.9</u>	<u>.07179</u>	<u>2307 ± 81</u>	<u>2900 ± 24</u>	<u>✓</u>
	<u>B94.4-1</u>	<u>11:53</u>	<u>6.01</u>	<u>2500</u>	<u>5700</u>	<u>77.2</u>	<u>21.2</u>	<u>.00807</u>	<u>3150 ± 32</u>	<u>3140 ± 15</u>	<u>✓</u>
	<u>B94.5-1</u>	<u>12:09</u>	<u>6.05</u>	<u>25</u>	<u>3100</u>	<u>45.4</u>	<u>0.1</u>	<u>.0010</u>	<u>3097 ± 33</u>	<u>3082 ± 6</u>	<u>✓</u>
	<u>B94.6-1</u>	<u>12:25</u>	<u>6.05</u>	<u>25</u>	<u>4300</u>	<u>64.8</u>	<u>1.3</u>	<u>.00064</u>	<u>3024 ± 26</u>	<u>3017 ± 10</u>	<u>✓</u>

short raster (trial) >

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?
	C23-83-3	12.41	6.23	25	2500	237	0.6	0.0055	570 ± 7	521 ± 25	✓
	B94-7-1	12.58	6.26	24	6000	88	0.3	0.0011	3074 ± 22	3023 ± 6	✓
	B94-8-1	13.15	6.18	24	6600	103.9	0.3	0.0008	2959 ± 24	2967 ± 5	✓
	B94-9-1	13.32	6.21	24.5	1400	18.6	0.9	0.0038	3268 ± 57	3312 ± 11	✓
	B94-10-1	13.48	6.09	25	3100	48.6	1.8	0.0018	2966 ± 24	2923 ± 8	✓
	B94-11-1	14.05	5.99	25	2500	38.9	1.5	0.0018	3064 ± 36	3079 ± 17	✓
	B94-12-1	14.22	6.16	25	3600	58.1	1.0	0.0026	2858 ± 31	2916 ± 15	✓
	B94-13-1	14.40	6.24	25	1100	166.4	1.0	0.0018	3067 ± 22	3094 ± 6	✓
	C23-83-4	14.55	6.13	25	2400	235.3	0.7	0.0051	560 ± 3	577 ± 27	✓
	B94-14-1	15.12	6.36	24	6500	103.6	0.9	0.0028	2951 ± 18	2945 ± 5	✓
	B94-15-1	15.28	5.95	25	9100	150.7	9.7	0.00208	2937 ± 19	2932 ± 5	✓
	B94-16-1	15.45	6.80	25	6600	128.5	6.3	0.00219	2273 ± 32	2874 ± 24	✓
	B94-17-1	16.01	6.40	25	4600	60.6	0.9	0.00240	3346 ± 29	3286 ± 6	✓
	18-1	16.17	6.08	25	4100	52.6	0.1	0.0007	3490 ± 27	3413 ± 5	✓
	C23-83-5	16.33	6.13	24	2400	240.4	0.4	0.0035	566 ± 5	513 ± 19.4	✓
	19-1	16.50	8.23	25	1100	16.6	0.7	0.00131	3087 ± 45	3002 ± 13	✓
	20-1	17.06	6.16	25	3100	47.8	1.8	0.0021	2928 ± 25	2929 ± 9	✓
	21-1	17.22	6.21	26	3700	5.4	0.2	0.00097	2951 ±	2944	✓
	22-1	17.39	6.31	25	3200	45	1.3	0.0056	3102 ± 48	3070 ± 7	✓
	23-1	17.55	6.42	24	1300	21.1	2.0	0.00321	2878 ± 45	2954 ± 18	✓
	24-1	18.11	6.13	24	6700	104.4	0.2	0.0006	3023 ± 21	3036 ± 5	✓
	C23-83-6	18.27	6.12	25	2500	242.3	0.4	0.0033	569 ± 3.5	592 ± 20.	✓
	25-1	18.43	6.14	25	8000	123.4	1.5	0.00240	2924 ± 15	2950 ± 5	✓
	26-1	18.59	6.18	24	1900	31.1	1.7	0.00182	2869 ± 33	2974 ± 12	✓
	27-1	19.15	6.21	25	1600	23.5	0.8	0.00106	3051 ± 45	3104 ± 11	✓

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?
	28-1	19.32	6.24	25	1100	15.7	0.4	0.00089	3021 ± 45	3014 ± 15.7	✓
	29-1	19.49	6.24	25	1200	17	1.0	0.00181	3150 ± 56	3074 ± 14.7	✓
	30-1	20.05	6.20	25	1200	18.5	0.7	0.00110	3016 ± 43	3030 ± 12	✓
	C23-83-7	20.21	6.17	25	2500	240.9	0.9	0.00094	568 ± 8	558 ± 34	✓
	31-1	20.36	6.09	25	4000	64	1.3	0.00068	2863 ± 38	2886 ± 7	✓
	32-1	20.52	6.10	26	1500	23.2	13.4	0.01887	2872 ± 43	3020 ± 24	✓
	33-1	21.09	6.13	25	10000	160.5	0.1	0.00002	2979	3037	✓
	34-1	21.25	6.14	25	3700	54.4	1.2	0.00069	3059 ± 31	3043 ± 12	✓
	35-1	21.41	6.13	25	2600	39.7	0.3	0.00023	3000 ± 36	3000 ± 7	✓
	36-1	21.57	6.23	24	2500	37.3	1.3	0.00107	3113 ± 30	3078 ± 18	✓
	C23-83-8	22.13	6.33	24	2500	238.6	0.9	0.00099	574 ± 4	520 ± 27	✓
	37-1	22.30 22.30	6.00 6.00	25 25	2500 2500	9.0	2.4	0.00183	3100 ± 64	3074 ± 23	✓
	38-1	22.46	6.23	25	3000	43	0.5	0.00036	3078 ± 28	3078 ± 6.8	✓
	39-1	23.02	6.21	25	1200	181.4	0.7	0.0012	2946 ± 18	2938 ± 6.5	✓
	40-1	23.18	6.33	24	3500	51.5	1.8	0.00110	3054 ± 32	3054 ± 7	✓
	41-1	23.35	6.26	25	2600	37.9	1.7	0.00142	2964 ± 33	2930 ± 10	✓
	C23-83-9	23.51	6.19	26	2500	235.1	0.9	0.00081	565 ± 5.3	542 ± 31	✓
	42-1	00.07	6.34	25	5400	75.7	2.1	0.00086	3084 ± 30	3066 ± 14	✓
	43-1	00.23	6.17	25	1500	24	1.1	0.00057	2898 ± 45	2942 ± 12	✓
	44-1	00.39	6.41	24	1800	25.5	0.6	0.00069	3091 ± 36	3076 ± 10	✓
	45-1	00.55	6.32	25	5100	79	2.6	0.00110	2886 ± 21	2897 ± 6	✓
	46-1	01.12	6.36	25	2400	34.1	3.5	0.00313	3081 ± 35	3065 ± 11	✓
	C23-83-10	01.27	6.02	25	2400	236.7	0.5	0.00044	562 ± 3	622 ± 25.7	✓
	47-1	01.44	6.28	24	7000	109.2	1.4	0.00042	2928 ± 16	2945 ± 4	✓
	48-1	0.200	6.22	25	1800	27	0.5	0.00065	2961 ± 37	2965 ± 16	✓

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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?
	49-1	2.16	6.09	25	8000	116.9	1.6	0.00041	3086 ± 24	3075 ± 6	✓
	50-1	2.32	6.30	25	4500	65.2	1.0	0.00047	3065 ± 27	3060 ± 6.5	✓
	51-1	2.48	6.29	25	2700	39	1.1	0.00059	3004 ± 28	3007 ± 9	✓
	52-1	3.03	6.09	25	3400	81.3	1.3	0.00050	3029 ± 23	3000 ± 5	✓
	C23-83-11	3.19	6.10	26	2400	229.3	0.9	0.00079	561 ± 3.5	589 ± 27	✓
	53-1	3.36	6.22	25	15000	235.5	1.4	0.00019	2939 ± 17	2929 ± 5	✓
	54-1	3.52	6.18	22	1700	25.9	-0.2	-ve	3179 ± 55	3073 ± 33	✓
	55-1	4.08	6.34	25	5600	77.6	5.5	0.00213	3107 ± 26	3048 ± 6	✓
	56-1	4.25	6.37	25	1100	16	1.8	0.00359	2943 ± 54	2927 ± 17	✓
	57-1	4.41	6.09	24	4300	70.6	2.8	0.00131	2901 ± 21	2898 ± 6.7	✓
	C23-83-12	4.58	7.11	17	1800	37.4	0.8	0.00050	382 ± 26	1103 ± 25	✓
	⁸³⁻¹² C23-83-13?	5.16	5.93	24	2200	241.1	1.4	0.00122	560 ± 7	575 ± 25	✓
	58-1	5.33	6.27	24	5300	7.9	0.4	0.00176	3022 ± 83	2964 ± 27	✓
	59-1	5.50	6.09	24	1900	31.2	1.0	0.00100	2988 ± 33	2974 ± 12	✓
	60-1	6.13	6.06	24	9800	161.4	2.3	0.00047	2906 ± 20	2926 ± 11	✓
	61-1	6.29	6.18	24	5900	7.5	1.8	0.00609	2925 ± 63	2900 ± 25	✓
	C23-88-1	6.45	6.11	25	2400	237.3	0.1	0.00010	562 ± 5	595 ± 26	✓
	62-1	7.02	6.40	23	2500	38.6	-0.1	-ve	2995 ± 35	3020 ± 9	✓
	63-1	7.18	6.09	24	6000	9.9	0.0	0.00001	2904 ± 77	3033 ± 19	✓
	C23-88-2	7.37	6.39	23	2500	242.6	0.4	0.00036	572 ± 38	603 ± 24	✓

get rid of!!

4 scans →
dropped out on 54-??
83-12 →
↓ 2 of them!!