

UWA SHRIMP DATA LOG

Date: 27/6/02 UWA Mount No.: C-27 Whose sample?: NK Operator(s): McN + NK

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 = 361/87V/11.5 for O⁻; = 258/63V/2.4 for O₂⁻; = 212/51V/14.0 for NO⁻

dead-time = 24 nanosecs expected resolution = >4200 actual resolution = 4618

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 ± 0.6

206-207 = 1.000 206-208 = 2.000

Primary-epoxy = 2.6 nA Primary-CZ3 = 3.6 nA PESABM-CZ3 = 58 pA

Raster time (mins): 1.0 Raster aperture (microns): 70 No. of scans: 5

Comments: late start → arc + tuning problems

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?
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	<u>C27</u> <u>C2.1-1</u>	<u>13.16</u>	<u>6.123</u>	<u>2.3</u>	<u>2.0</u>	<u>238</u>	<u>-</u>	<u>-</u>	<u>592 ± 3.2</u>	<u>659 ± 20.5</u>	<u>✓</u>
	<u>C2.1-2</u>	<u>13.35</u>	<u>6.314</u>	<u>2.2</u>	<u>2.1</u>	<u>243.3</u>	<u>-</u>	<u>-</u>	<u>583</u>	<u>550</u>	<u>✓</u>
	<u>UC27.1-1</u>	<u>13.51</u>	<u>6.30</u>	<u>2.1</u>	<u>1.7</u>	<u>30.9</u>	<u>0.4</u>	<u>0.0039</u>	<u>3050 ± 40</u>	<u>3063 ± 11</u>	<u>✓</u>
	<u>UC27.2-1</u>	<u>14.05</u>	<u>6.26</u>	<u>2.1</u>	<u>2.4</u>	<u>44.6</u>	<u>1.3</u>	<u>0.0094</u>	<u>3029 ± 33</u>	<u>3079 ± 9</u>	<u>✓</u>
	<u>UC27.3-1</u>	<u>14.20</u>	<u>6.34</u>	<u>2.2</u>	<u>1.2</u>	<u>20.5</u>	<u>-</u>	<u>-</u>	<u>3116 ± 43</u>	<u>3063 ± 11</u>	<u>✓</u>
	<u>UC27.4-1</u>	<u>14.35</u>	<u>6.38</u>	<u>2.1</u>	<u>4.5</u>	<u>80.5</u>	<u>3.1</u>	<u>0.0116</u>	<u>3124 ± 22</u>	<u>3066 ± 7</u>	<u>✓</u>
	<u>UC27.5-1</u>	<u>14.50</u>	<u>6.15</u>	<u>2.2</u>	<u>1.6</u>	<u>28.9</u>	<u>-</u>	<u>0.0027</u>	<u>3231</u>	<u>3054</u>	<u>✓</u>
<u>OK →</u>	<u>C2.2-1</u>	<u>15.05</u>	<u>6.39</u>	<u>2.1</u>	<u>1.6</u>	<u>237.6</u>	<u>1.3</u>	<u>0.0142</u>	<u>464 ± 62</u>	<u>865 ± 321</u>	<u>✓</u>

Dodgy Analysis → last scan remove.

Steel = 3.0

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?
	UC27-6-1	15:21	6:21	21	4.8	92	-	-	2999 ± 23	3015 ± 8	✓
	UC27-7-1	15:36	6:15	21	3.3	56.6	1.8	0.0059	3372 ± 28	3303 ± 67	✓
	UC27-8-1	15:52	6:45	20	1.3	24.1	-	-	3136	3076	✓
	C2-2-2	16:06	6:23	22	2.0	238.4	-ve	-ve	580 ± 6	555 ± 32	✓
	UC27-9-1	16:21	6:49	20	3.5	63.4	-	-	3227 ± 28	3076 ± 8	✓
	UC27-10-1	16:36	6:24	21	3.2	58.2	0.8	0.0043	3112 ± 25	3033 ± 9	✓
	UC27-11-1	16:51	6:24	20	8.2	154.3	3.2	0.0062	3162 ± 19	3077 ± 11	✓
	UC27-12-1	17:06	6:11	21	1.8	34	0.9	0.0075	3124 ± 34	3080 ± 11	✓
	UC27-13-1	17:20	6:38	21	6.9	13.2	1.4	0.00320	2967 ± 72	2945 ± 21	✓
	C2-2-3	17:35	6:27	21	1.9	235.1	-ve	-ve	574 ± 4	564 ± 42	✓
	UC27-14-1	17:50	6:34	21	2.9	52.2	1.1	0.0064	3144 ± 30	3060 ± 8	✓
	UC27-15-1	18:04	6:49	20	2.0	36.5	0.5	0.0039	3152 ± 49	3106 ± 10	✓
	UC27-16-1	18:19	6:16	21 24.6	1.4	24.6	0.5	0.0065	3166 ± 46	3078 ± 11	✓
	UC27-17-1	18:34	6:47	20	3.3	58.6	0.7	0.0036	3143 ± 31	3047 ± 7	✓
	UC27-18-1	18:49	6:26	20	3.8	74.9	0.9	0.0038	3068 ± 26	3082 ± 6	✓
	C2-2-4	19:04	6:34	20	1.9	240.1	1.5	0.0125	577 ± 4	519 ± 33	✓
	UC27-19-1	19:19	6:54	20	1.0	19.3	0.7	0.0011	3040 ± 56	3077 ± 14	✓
	UC27-20-1	19:34	6:64	20	1.2	21.4	0.3	0.0048	3055 ± 43	3062 ± 12	✓
	UC27-21-1	19:48	6:36	20	2.6	47.6	1.7	0.00103	3165 ± 34	3063 ± 9	✓
	UC27-22-1	20:04	6:57	20	1.4	25.9	5.4	0.00624	3105 ± 47	3018 ± 14	✓
	UC27-23-1	20:18	6:55	19	4.4	94.9	0.8	0.0027	2889 ± 20	2913 ± 7	✓
	C2-3-1	20:33	6:56	20	2.1	252	0.7	0.0057	588 ± 7	514 ± 39	✓
	UC27-24-1	20:49	6:36	21	2.1	37.7	-	-	3160 ± 32	3094 ± 10	✓
	UC27-25-1	21:04	6:34	21	1.8	33.3	1.3	0.00116	3143 ± 46	3070 ± 10	✓
	UC27-26-1	21:18	6:32	20	1.7	32.6	1.1	0.0098	3102 ± 44	3061 ± 9	✓

Rejection over-ride	Sample/ Std ID	Time - printout	UO/U	196 Kcps	206 cps	U ppm	²⁰⁴ Pb ppb	f ₂₀₆ %	Age ±1σ (Ma) 206/238	207/206	Offsets OK?
	UC27-27-1	21:33	6:28	20	3.0	57.5	0.8	0.00041	3111 ± 28	3081 ± 8	✓
	UC27-28-1	21:48	6:36	20	1.1	21.5	1.1	0.00168	2971 ± 47	2903 ± 16	✓
	CZ3-2	22:03	6:32	21	2.0	245.1	0.3	0.00027	576 ± 9	629 ± 40	✓
	UC27-3-2	22:18	6:59	19	4.8	9.8	0.8	0.00266	2969 ± 66	2906 ± 27	✓
	UC27-30-1	22:33	6:49	20	1.1	21.4	-	-	3134 ± 46	3064 ± 15	✓
	UC27-31-1	22:47	6:55	20	5.7	10.6	0.0	0.00034	3029 ± 71	3067 ± 15	✓
	UC27-32-1	23:01	6:46	20	7.3	21.6	1.0	0.00141	3183 ± 45	3046 ± 13	✓
	UC27-33-1	23:17	6:39	20	1.2	24	0.9	0.00120	2993 ± 40	2914 ± 12	✓
	CZ3-3	23:31	6:11	20	1.9	247.2	0.0	0.00063	575 ± 4	556 ± 26	✓
	UC27-34-1	23:48	6:48	20	8.3	15.3	0.0	0.00001	3139 ± 14	3106 ± 14	✓
	UC27-35-1	00:02	6:64	20	3.5	68.7	2.1	0.00098	2900 ± 25	3038 ± 8	✓
	UC27-36-1	00:17	6:69	19	1.6	29.2	0.8	0.00079	3129 ± 39	3076 ± 10	✓
	UC27-37-1	00:32	6:34	20	3.0	59.5	1.3	0.00068	3057 ± 26	3034 ± 14	✓
	UC27-38-1	00:46	6:45	20	4.2	75.7	-	-	3148	3071	✓
	CZ3-4	1:01	6:36	21	2.0	242.4	0.2	0.00019	575 ± 4	575 ± 31	✓
	UC27-39-1	1:15	6:44	20	4.3	78.2	2.3	0.00089	3128 ± 89	3079 ± 12	✓
	UC27-40-1	1:30	6:30	21	3.0	54.2	1.2	0.00063	3160 ± 30	3100 ± 7	✓
	UC27-41-1	1:46	6:22	21	3.3	5.4	0.8	0.00367	3463 ± 107	3283 ± 27	✓
	UC27-42-1	2:00	6:24	21	8.4	18.4	0.6	0.00124	3131 ± 55	3045 ± 15	✓
	UC27-43-1	2:15	6:59	20	3.3	60.4	2.8	0.00137	3120 ± 33	3107 ± 12	✓
	CZ3-5	2:29	6:30	21	2.0	247.4	0.7	0.00057	583 ± 4	506 ± 28	✓
	UC27-44-1	2:45	6:49	20	1.5	28	1.3	0.00141	3177 ± 39	3068 ± 11	✓
	UC27-45-1	3:00	6:39	20	2.0	37.8	0.5	0.00037	3172 ± 33	3033 ± 11	✓
	UC27-46-1	3:15	6:51	20	2.6	46.7	0.6	0.00039	3092 ± 31	3073 ± 8	✓
	UC27-47-1	3:30	6:53	20	3.7	67.7	0.2	0.00010	3153 ± 36	3085 ± 6	✓

name stuff up → should be 29-1

Rejection over-ride	Sample/ Std ID	Time - printout	UO/U	196 Kcps	206 cps	U ppm	204Pb ppb	f206 %	Age $\pm 1\sigma$ (Ma) 206/238	207/206	Offsets OK?
	UC27-48-1	3.44	6.33	20	4.8	9.3	2.3	0.00787	2979 \pm 76	2911 \pm 30	✓
	CZ 3-6	3.59	6.28	21	2.0	243.3	0.8	0.00066	576 \pm 4	594 \pm 29	✓
	UC27-49-1	4.15	6.49	20	6.6	125	1.3	0.00032	3062 \pm 21	3063 \pm 9	✓
	UC27-50-1	4.29	6.24	21	1.3	23	0.8	0.00102	3194 \pm 56	3109 \pm 13	✓
	UC27-51-1	4.44	6.36	21	6.1	110.2	1.4	0.00038	3161 \pm 19	3078 \pm 5	✓
	UC27-52-1	4.58	6.39	20	5.9	121.4	0.5	0.00014	2875 \pm 18	3031 \pm 6	✓
	UC27-53-1	5.12	6.27	21	2.4	43.2	-	-	3135 \pm 27	3057 \pm 9	✓
	CZ 3-7	5.27	6.55	21	1.8	214.1	-	-	548	887	✓

drop
last
line!

⌘
DODGY → OMIT.