

UWA SHRIMP DATA LOG

Date: 15/10/01 UWA Mount No.: B-77+78 Whose sample?: OS/LKA Operator(s): MeN + 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 = 307/744/14.0 for O⁻; = 203/441/3.3 for O₂⁻; = 160/381/15.0 for NO⁻

dead-time = 32 nanosecs expected resolution = >4200 actual resolution = 4792

aperture = 10.0 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 = 8.165 204-bkg = 0.045 204-206 = 2.000 ± 6

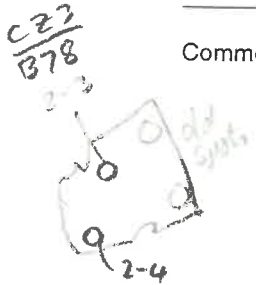
206-207 = 1.000 206-208 = 2.000

Primary-epoxy = 2.75 nA Primary-CZ3 = 3.8 nA PESABM-CZ3 = 76 pA

Raster time (mins): 1 Raster aperture (microns): 60 No. of scans: 6

Comments:

A = scatter, concordant pop @ ca. 2750 Ma
 B = youngest " JP @ 2770 Ma.



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?
	<u>C2.2-3</u>	<u>11:08</u>	<u>5.67</u>	<u>32</u>	<u>2800</u>	<u>238</u>	<u>0.9</u>	<u>.08</u>	<u>572 ± 3</u>	<u>545 ± 24</u>	✓
	<u>C2.2-4</u>	<u>11:29</u>	<u>5.76</u>	<u>31</u>	<u>2900</u>	<u>239</u>	<u>1.4</u>	<u>.11</u>	<u>583 ± 10</u>	<u>531 ± 37</u>	✓
	<u>A.56-1</u>				<u>high</u>	<u>204</u>					
	<u>A.56-2</u>	<u>11:58</u>	<u>5.76</u>	<u>31</u>	<u>990</u>	<u>14</u>	<u>0.5</u>	<u>.18</u>	<u>2900 ± 52</u>	<u>2849 ± 18</u>	✓ <small>old</small>
	<u>A.57-1</u>	<u>12:16</u>	<u>6.01</u>	<u>33</u>	<u>3200</u>	<u>60</u>	<u>2.1</u>	<u>.17</u>	<u>2092 ± 83</u>	<u>2638 ± 16</u>	✓ <small>disc</small>
	<u>C2.3-1</u>	<u>12:34</u>	<u>5.63</u>	<u>31</u>	<u>2700</u>	<u>235</u>	<u>-ve</u>	<u>-ve</u>	<u>578 ± 3</u>	<u>569 ± 17</u>	✓
	<u>A.58-1</u>	<u>12:52</u>	<u>5.67</u>	<u>32</u>	<u>3800</u>	<u>54</u>	<u>1.5</u>	<u>.09</u>	<u>2885 ± 21</u>	<u>2879 ± 8</u>	✓ <small>old</small>
	<u>A.60-1</u>	<u>13:20</u>	<u>5.72</u>	<u>32</u>	<u>2900</u>	<u>42</u>	<u>1.0</u>	<u>.08</u>	<u>2820 ± 22</u>	<u>2765 ± 8</u>	✓ *

Right = B-78

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?
	A. 62-1	13:38	5.62	31	6100	90	1.1	.04	2832 ± 16	2755 ± 12	✓	*
	A. 61-1	14:03	5.58	36	9700	230	1.6	.04	1716 ± 15	2528 ± 10	✓	disc
	A. 64-1	14:26	5.24	27	3800	81	3.9	.18	2585 ± 74	2817 ± 7	✓	dis
	A. 64b-1	14:43	5.81	30	6000	124	2.1	.08	2143 ± 11	2693 ± 6	✓	dis
	CZ. 4-1	15:01	5.73	31	2700	232	0.8	.07	578 ± 6	555 ± 34	✓	
	A. 67-1	15:22	5.66	31	13000	217	3.4	.06	2527 ± 11	2694 ± 5	✓	dis
	A. 70-1	15:40	5.67	29	9900	144	0.9	.02	3008 ± 45	2867 ± 14	✓	disc
5 scans	B. 35-1	15:58	5.64	30	9600	125	1.9	.05	3191 ± 15	3067 ± 5	✓	
"	B. 55-1	16:14	5.90	29	7600	134	2.2	.07	2454 ± 16	2823 ± 5	✓	
"	B. 54-1	16:29	5.70	28	3300	46	-ve	-	3209 ± 26	3207 ± 7	✓	
	CZ. 5-2	16:47	5.66	30	2600	235	-ve	-	569 ± 3	636 ± 16	✓	
5 scans	B. 49-1	17:03	5.58	29	4500	72	1.2	.05	2861 ± 21	2842 ± 6	✓	
	B. 50-1	17:19	5.73	28	2000	33	0.8	.08	2805 ± 31	2763 ± 10	✓	*
	B. 58-1	17:34	5.87	27	6800	123	1.2	.04	2573 ± 58	2751 ± 6	✓	
	B. 51-1	17:49	5.82	28	3800	57	2.2	.12	2938 ± 24	2846 ± 8	✓	
	B. 52-1	18:05	5.88	29	2700	38	1.6	.13	3062 ± 21	2944 ± 10	✓	
6 scans	D. 17-1	18:25	5.52	29	3800	56	2.3	.12	3080 ± 21	3053 ± 6	✓	
	CZ. 5-2	18:43	5.87	28	2700	239	0.6	.05	582 ± 3	543 ± 22	✓	
	D. 16-1	19:03	5.84	28	3700	63	0.8	.05	2636 ± 23	2756 ± 7	✓	
	D. 15-1	19:23	5.71	28	9100	106	0.5	.02	3707 ± 21	2806 ± 3	✓	
	D. 14-1	19:41	5.86	29	8800	189	3.9	.10	2090 ± 8	2725 ± 5	✓	
	D. 14b-1	19:59	5.61	27	5000	87	1.5	.06	2834 ± 55	2763 ± 6	✓	
	D. 212-1	20:17	5.70	26	800	57	1.6	.08	3115 ± 36	2943 ± 16	✓	
	CZ. 6-1	20:37	5.68	32	2800	236	0.3	.03	577 ± 5	570 ± 21	✓	
	D. 11-1	21:00	5.74	30	5700	78	1.1	.04	3025 ± 17	2955 ± 5	✓	

↓
noisy.
by 1m2 nA
slowly
hopped to
3.4 nA

1st noisy

1st noisy

↓
changed
current
1st stable @ 3.5 nA
but stepped down
redually.

1st stable

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?

	D. 9-1	21:18	5.67	28	2600	41	0.3	.03	2871 ± 21	2851 ± 5	✓
	D. 8-1	21:37	5.95	29	3900	56	1.4	-.08	2953 ± 22	2860 ± 6	✓
	D. 6-1	21:55	5.54	29	3200	47	1.7	.11	3051 ± 22	2945 ± 7	✓
	D. 3-1	22:13	5.70	28	1400	23	1.3	.19	2915 ± 33	2816 ± 12	✓
	D. 1-1	22:47	5.68	24	1200	22	1.0	.15	2890 ± 34	2770 ± 12	✓
	C2.6-2	23:05	5.48	30	2500	232	-ve	-ve	578 ± 21	620 ± 35	✓
	Mount	b-77	206	20 cps	207	20 cps		6 scans			
	C2.1-1	23:29	5.95	30	2700	230	0.2	.02	572 ± 3	561 ± 20	✓
	C2.1-2	23:46	5.95	29	2700	242	-ve	-	569 ± 5	576 ± 28	✓
	D.2-2	24:04	5.84	31	420	134	0.6	.35	156 ± 1	-	✓ rim
	D.2-1	24:22	5.77	29	4100	113	0.1	.01	1724 ± 26	1830 ± 9	✓ core
	C2.2-1	24:40	5.90	30	2800	246	1.2	-.10	562 ± 3	594 ± 23	✓
	C.33-1	24:58	5.90	29	860	272	-ve	-	165 ± 5	163 ± 47	✓ core
	C.33-2	01:15	6.10	29	1600	460	-ve	-	170 ± 1	242 ± 50	✓ rim
	C.34-1	01:33	5.87	28	960	326	0.6	.14	161 ± 1	114 ± 74	✓
spiky 1°	C2.2-2	01:58	5.72	33	2700	224	-ve	-	568 ± 5	513 ± 25	✓
	D.26-1	02:17	5.95	30	200	67	0.2	.26	156 ± 2	-	✓
	D.3-1	02:35	5.72	30	230	79	-ve	-	154 ± 2	195 ± 63	✓
very spiky 1°	D.4-1	02:53	6.15	29	120	359	0.5	.11	160 ± 1	108 ± 83	✓
less spiky.	C2.2-3	03:11	5.85	30	2600	236	0.3	.03	558 ± 8	523 ± 31	✓
stable but clings down.	C.32-1	03:30	5.75	31	1000	331	0.3	.07	159 ± 1	119 ± 56	✓ rim
stable	C.32-2	03:48	6.17	30	1100	313	1.0	-.23	166 ± 1	76 ± 66	✓ core
	C.29-1	04:07	6.11	31	800	237	0.2	.05	160 ± 1	132 ± 73	✓
	C2.3-1	04:25	5.93	31	2900	240	0.4	.04	566 ± 3	562 ± 26	✓
	D.46-1	04:42	5.75	31	760	242	1.0	.31	157 ± 1	51 ± 82	✓

