

UWA SHRIMP DATA LOG

Date: 18/4/02 UWA Mount No.: C11 Whose sample?: NV Operator(s): IF/NV + 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

Resin
~~Steel~~: Wein volts / nA = 4.6 for O⁻; = 1.4 for O₂⁻; = 3.2 for NO⁻

dead-time = 32 nanosecs expected resolution = >4200 actual resolution = 4610

aperture = 70 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 = 8.170 204-bkg = 0.045 204-206 = ~2.00

206-207 = ~1.000 206-208 = 2.000

Primary-epoxy = 1.4 nA Primary-CZ3 = 1.8 nA PESABM-CZ3 = 35 pA

Raster time (mins): 80.2 Raster aperture (microns): 50 No. of scans: 7

Comments: 1° stepping down during analyses, gradually improving during afternoon → all steady @ ~4:30pm
1° gradually drifting down.

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>C21-1</u>	<u>11:20</u>	<u>6.32</u>	<u>11.0</u>	<u>840</u>	<u>238</u>	<u>2.0</u>	<u>0.17</u>	<u>571±6</u>	<u>528±43</u>	✓
	<u>C21-2</u>	<u>11:42</u>	<u>6.33</u>	<u>9.2</u>	<u>720</u>	<u>256</u>	<u>3.1</u>	<u>0.25</u>	<u>556±5</u>	<u>460±47</u>	2:006 204-206 ✓
	<u>D1-1</u>	<u>12:08</u>	<u>6.35</u>	<u>10.0</u>	<u>310</u>	<u>18</u>	<u>—</u>	<u>—</u>	<u>2665±55</u>	<u>2739±20</u>	✓
	<u>D1-2</u>	<u>12:32</u>	<u>6.62</u>	<u>10.0</u>	<u>400</u>	<u>23</u>	<u>1.8</u>	<u>0.33</u>	<u>2398±55</u>	<u>2693±23</u>	✓
	<u>C21-3</u>	<u>12:53</u>	<u>6.32</u>	<u>11.0</u>	<u>840</u>	<u>245</u>	<u>1.1</u>	<u>0.09</u>	<u>572±5</u>	<u>523±41</u>	✓
	<u>D1-3</u>	<u>13:16</u>	<u>6.14</u>	<u>19.0</u>	<u>470</u>	<u>28</u>	<u>0.1</u>	<u>0.01</u>	<u>2791±58</u>	<u>2688±17</u>	✓
	<u>D2-1</u>	<u>13:39</u>	<u>6.25</u>	<u>11.0</u>	<u>200</u>	<u>104</u>	<u>1.4</u>	<u>0.05</u>	<u>2687±28</u>	<u>2687±10</u>	NOT PRINTED ✓
	<u>D2-2</u>	<u>14:00</u>	<u>6.52</u>	<u>11.0</u>	<u>2300</u>	<u>116</u>	<u>1.9</u>	<u>0.06</u>	<u>2694±28</u>	<u>2695±9</u>	✓

Rejection over-ride Sample/Std ID Time - printout UO/U Kcps 196 cps 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 Kcps	196 cps	206 cps	U ppm	204Pb ppb	f206 %	Age ±1σ (Ma) 206/238	207/206	Offsets OK?
	C22-1	14:22	6.66	10.0	870	256	1.0	0.08	572±6	590±36	✓
	D3-1	14:43	6.54	9.4	4000	266	21.6	0.34	2404±16	2543±8	✓ M
	D4-1	15:16	6.41	10.0	1200	66	23.1	0.23	2701±59	2681±19	✓
	D5-1	15:41	6.47	10.0	2000	101	30.2	1.05	2727±23	2775±12	✓ X
	C22-2	16:02	6.23	11	800	243	0.4	0.03	569±5	546±47	2.006 = 206-204 ✓
	D6-1	16:24	6.38	10	3800	199	2.2	0.04	2776±21	2784±6	✓ X
	D.6-2	16:45	6.04	10	1300	91	8.4	0.40	2303±22	2778±13	✓ X
	D.7-1	17:07	6.31	9.8	560	33	2.1	0.24	2684±41	2671±18	✓
	C22-3	17:49	6.52	9.4	810	256	-0.2	-	584±5	552±30	✓
	D.7-2	17:28	6.34	10	820	45	3.7	0.30	2687±34	2663±16	✓
	D.8-1	18:11	6.67	9.0	1000	61	3.8	0.24	2619±37	2671±15	✓
	D.8-2	18:32	6.31	9.8	550	32	2.5	0.28	2645±42	2669±22	✓
	D.9-1	19:03	6.37	8.9	1400	89	-ve	-ve	2632±30	2694±11	✓
	D.10-1	19:24	6.53	8.7	960	63	9.2	0.55	2593±34	2665±17	✓
	D.11-1	19:46	6.83	8.5	3200	198	4.2	0.08	2661±18	2668±8	✓
	C2.3-1	20:07	6.99	7.8	750	264	2.9	0.22	571±10	539±63	✓
	D.12-1	20:28	6.68	9.8	450	52	52.9	7.91	1279±20	2500±73	✓ - dice
	D.12-2	20:48	6.61	7.7	520	37	-ve	-ve	2655±46	2723±15	✓ ?X
	D.13-1	21:10	6.20	8.2	1000	71	-ve	-ve	2685±30	2636±11	✓ * ?
	D.13-2	21:30	6.98	7.2	880	63	1.8	0.10	2602±40	2663±12	✓ * ?
	D.14-1	21:52	6.40	7.8	570	42	0.8	0.07	2635±48	2611±16	✓ * ?
	C2.3-2	22:12	6.57	7.6	650	261	2.8	0.22	567±5	503±50	✓
	D.14-2	22:33	6.65	7.1	530	40	1.1	0.11	2664±48	2636±20	✓
	B.1-1	23:01	6.38	7.5	920	71	2.3	0.12	2595±33	2666±14	✓
	D.2-1	23:22	6.24	7.2	1300	103	5.1	0.17	2722±31	2707±11	✓ X

Extremely stable
↓

B

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?
	B.3-1	23:42	<u>8.66</u>	<u>5.1</u>	1600	328	14.7	0.46	1072 ± 9	2552 ± 13	✓ M disc
	B.4-1	00:04	7.61	6.6	1000	152	18.4	0.99	1317 ± 14	2613 ± 18	✓ M disc
	CZ.3-3	00:25	6.82	6.6	620	265	0.7	0.05	580 ± 6	564 ± 35	✓
	B.5-1	00:46	6.87	6.0	940	87	3.4	0.16	2477 ± 31	2673 ± 13	✓ M disc
	B.6-1	01:09	7.27	5.8	770	63	2.5	0.15	2657 ± 39	2678 ± 15	✓ ok
	B.7-1	01:29	7.08	5.4	850	98	5.4	0.25	2168 ± 29	2701 ± 15	✓ M disc
	B.8-1 ARC FELL OUT ~~~~~										
	CZ.3-4	02:27	6.81	8.4	780	270	2.6	0.19	566 ± 5	519 ± 42	✓
	CZ.3-5	02:47	6.54	8.8	750	268	-ve	-ve	552 ± 4	632 ± 24	✓
	B.9-1	03:09	6.20	9.5	1300	120	53.0	2.37	1889 ± 19	2643 ± 29	✓ M disc
	B.10-1	03:40	6.59	7.8	1000	69	1.7	0.09	2663 ± 32	2657 ± 12	✓ ok?
	B.11-1	04:15	6.66	6.8	710	64	9.6	0.62	2362 ± 33	2621 ± 19	✓ M disc?
	CZ.3-6	04:36	6.38	7.6	630	265	1.6	0.12	563 ± 5	504 ± 47	✓
	B.12-1	04:58	6.62	6.0	550	49	1.4	0.10	2681 ± 44	2767 ± 20	✓ older X
	B.12-2	05:18	6.67	6.5	500	39	2.6	0.24	2789 ± 53	2803 ± 18	✓ X
	B.13-1	05:43	7.18	6.2	720	68	4.2	0.28	2254 ± 33	2679 ± 17	✓
	B.14-1	06:04	6.89	6.0	380	34	1.8	0.20	2389 ± 38	2637 ± 21	✓
	CZ.3-7	06:26	6.74	5.8	550	280	-ve	-ve	558 ± 6	673 ± 33	✓
	AZ.3-8	07:00	6.82	5.9	560	276	-ve	-ve	558 ± 6	596 ± 30	✓
	A.1-1	07:21	6.63	5.7	490	47	3.6	0.28	2628 ± 51	2658 ± 20	✓
	C.1-1	07:41	<u>23.44</u>	1.2E9	1.8E+9	516	-ve	-ve	908	-	✓
	CZ.4-1	08:10	6.57	6.3	570	274	1.1	0.09	569 ± 6	490 ± 43	✓

Trim mass for ThO +0.025 from mean.

didn't save →

I^o = 1.5 nA change B.8-1 → CZ.3-4

Arc fell out last scan →

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