

### UWA SHRIMP DATA LOG

Date: 21/12/2002 UWA Mount No.: UWA C-96 Whose sample?: S. Brown Operator(s): M.G.

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 = 2.6 for O<sup>-</sup>; = 2.4 for O<sub>2</sub><sup>-</sup>; = 17.5 for NO<sup>-</sup>

dead-time = 24 nanosecs expected resolution = >4200 actual resolution = 5080

aperture = 30 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

206-207 = 1 206-208 = 2

Primary-epoxy = 2.2 nA Primary-CZ3 = 2 nA PESABM-CZ3 = 3.2 pA

Raster time (mins): 1.5 Raster aperture (microns): 20 No. of scans: 6

Comments: Some startup difficulties due to machine being off for > 24hrs, arc off etc. - Peaks out of position.

B: E413

C: E412

Rejection over-ride	Sample/ Std ID	Time - printout	UO/U	196 Kcps	206 cps	U ppm	204Pb ppb	f <sub>206</sub> %	Age ±1σ (Ma) 206/238	207/206	Offsets OK?
	<u>CZ3.1-1</u>	<u>11:56</u>	<u>5.43</u>	<u>164</u> <del>16440</del>	<u>1090</u>	<u>551</u>	<u>0.2</u>	<u>-</u>	<u>572 ± 4</u>	<u>595 ± 27</u>	<u>✓</u>
	<u>CZ3.1-2</u>	<u>12:17</u>	<u>5.22</u>	<u>169</u>	<u>1184</u>	<u>547</u>	<u>2.8</u>	<u>.06</u>	<u>636 ± 4</u>	<u>627 ± 33</u>	<u>✓</u>
	<u>E413.1-1</u>	<u>12:35</u>	<u>6.21</u>	<u>134</u>	<u>1077</u>	<u>1354</u>	<u>1.8</u>	<u>.01</u>	<u>2093 ± 23</u>	<u>2257 ± 14</u>	<u>✓</u>
	<u>E413.2-1</u>	<u>13:05</u>	<u>5.25</u>	<u>14.2</u>	<u>80</u>	<u>1448</u>	<u>158</u>	<u>6.5</u>	<u>187 ± 5</u>	<u>4162 ± 65</u>	<u>✗</u>
	<u>CZ3.1-3</u>	<u>13:24</u>	<u>5.30</u>	<u>14.3</u>	<u>97</u>	<u>6339</u>	<u>49</u>				<u>✗</u>
	<u>CZ3.1-4</u>	<u>13:59</u>	<u>5.57</u>	<u>13.9</u>	<u>1127</u>	<u>6321</u>	<u>12.9</u>	<u>.04</u>	<u>589 ± 5</u>	<u>599 ± 33</u>	<u>✓</u>
	<u>CZ3.1-5</u>	<u>14:29</u>	<u>5.77</u>	<u>13.4</u>	<u>1226</u>	<u>6703</u>	<u>-</u>	<u>.01</u>	<u>595 ± 5</u>	<u>648 ± 21</u>	<u>✓</u>
	<u>E412.1-1</u>	<u>14:46</u>	<u>5.64</u>	<u>14.0</u>	<u>1662</u>	<u>1654</u>	<u>122</u>	<u>.26</u>	<u>2731 ± 29</u>	<u>2654 ± 14</u>	<u>✓</u>

196 on wrong peak!

206 peak wrong (moved trim)

All OK

uncalculated values not valid (U, Pb ppm/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?
	E412.2-1	15:04	5.52	1404	877	863	50	.20	2801±45	2702±18	✓
	E412.3-1	15:22	5.67	1370	1266	1246	78	.21	2777±32	2717±12	✓
	C23.2-1	15:41	5.66	1430	1218	551	6.4	.13	579±4	534±40	✓
	E413.3-1	16:00	5.66	13.8	6220	503	6.6	.05	2773±14	2771±5	✓
	E413.5-1	16:29	5.85	12.9	6061	638	7.2	.05	2295±14	2516±5	✓
	E413.4-1	16:56	5.76	19	2418	194	3.5	.07	2681±23	2667±8	✓
	C23.2-2	17:32	5.34	15.1	1253	575	-	-	578±4	538±25	✓
	E412.4-1	17:51	5.12	13.3	1019	99	0.5	.02	2743±31	2778±12	✓
	E412.5-1	18:18	5.51	14.2	1051	95	16.3	.66	2534±32	2705±20	✓
	E412.6-1	18:35	6.14	13.2	857	66	5.1	.27	2732±38	2700±17	✓
	E412.7-1	18:52	5.97	14.8	1566	130	26.7	.84	2403±25	2716±14	✓
	C23.2-3	19:09	5.39	14.5	1238	593	4.5	.15	576±4	525±36	✓
	E413.6-1	19:27	5.69	14.8	2381	178	9.3	.19	2776±11	2729±23	✓
	E413.7-1	19:45	5.32	14.3	4911	429	18.6	.16	2711±19	2757±6	✓
	E413.8-1	20:02	5.51	15.9	1838	144	10.5	.27	2612±24	2745±10	✓
	E413.9-1	20:19	6.81	10.4	9799	1369	26.7	.11	1804±11	1774±12	✓
	C23.3-1	20:38	5.39	14.9	1233	571	3.3	.12	570±4	579±34	✓
	E412.8-1	20:56	6.21	13.8	7550	746	46.5	.30	2107±9	2397±6	✓
	E412.8-1a	21:18	5.37	15.4	1601	124	2.0	.06	2777±28	2677±11	✓
	E412.9-1	21:56	5.60	14.8	832	64	3.1	.17	2765±43	2723±16	✓
	E412.10-1	22:15	5.19	14.7	1304	125	9.5	.30	2505±28	2723±14	✓
	C23.3-2	22:35	5.24	14.8	1180	569	3.9	.14	574±5	606±34	✓
	E413.11-1	22:54	5.64	15.8	3089	222	24.9	.38	2742±20	2753±10	✓
	E413.12-1	23:12	5.40	15.2	4516	353	28.8	.28	2766±17	2784±7	✓
	E413.13-1	23:30	5.25	15.6	704	57	0.2	.01	2740±38	2770±13	✓

recalib. conc. and ratios. →

Incorrect name → Should be 413.10-1

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?
	E413.14-1	23:47	5.49	166	1730	120	11.4	.33	2794 ± 27	2775 ± 11	✓
	C23.4-1	00:05	5.07	168	1151	587	-	-	578 ± 4	612 ± 21	✓
	E42.11-1	00:28	5.52	13.6	1296	134	99	3.1	2296 ± 29	2704 ± 26	✓
	E42.12-1	00:51	5.58	14.8	1117	86	2.1	.09	2765 ± 19	2715 ± 8	✓
	E42.13-1	01:08	5.94	14.3	1439	111	2.4	.08	2649 ± 23	2737 ± 12	-
	E42.14-1	01:26	5.63	14.8	1615	126	2.4	.07	2710 ± 32	2727 ± 11	✓
	C23.5-1	01:45	5.45	15.4	1312	567	3.3	.18	584 ± 7	578 ± 37	-
	E413.15-1	02:03	5.12	14.6	1337	115	4.8	.14	2804 ± 29	2780 ± 13	✓
	E413.16-1	02:21	5.61	14.4	5948	571	19.8	.15	2346 ± 12	2540 ± 27	-
	E413.18-1	02:39	4.98	13.2	4692	503	9.6	-.07	2635 ± 14	2692 ± 7	✓
	E413.18-1	02:56	4.72	14.2	1003	103	2.0	.07	2733 ± 29	2785 ± 13	✓
	C23.5-2	03:15	5.50	14.7	1269	576	4.9	.17	582 ± 4	618 ± 39	✓
	E42.15-1	03:47	5.27	16.0	1680	141	4.8	-.13	2578 ± 28	2709 ± 11	✓
	E42.15-2	04:04	5.58	14.9	1294	98	2.0	.07	2805 ± 36	2706 ± 15	✓
	E42.16-1	04:22	5.71	14.5	3671	289	1.6	-.02	2699 ± 17	2678 ± 8	✓
	E42.17-1	04:46	5.59	14.9	1916	154	41.1	.98	2629 ± 28	2697 ± 15	✓
	C23.5-3	05:03	5.23	14.0	1223	576	-	-	582 ± 4	568 ± 26	✓
	E413.19-1	05:20	5.30	15.0	1990	161	4.1	.28	2724 ± 25	2789 ± 14	-
	E413.20-1	05:38	5.87	14.3	2368	178	5.2	.10	2740 ± 30	2779 ± 8	✓
	E413.21-1	05:55	5.40	14.5	599	314	2.7	.19	519 ± 13	486 ± 102	✓
	E413.22-1	06:14	5.66	15.3	1812	132	10.9	.29	2761 ± 85	2783 ± 12	✓
	C23.5-4	06:37	5.69	14.1	1323	581	3.6	.12	590 ± 4	529 ± 34	✓
	E42.18-1	06:50	5.69	14.9	1253	97	3.6	.14	2695 ± 34	2702 ± 14	✓
	E42.19-1	07:07	5.16	12.4	861	87	0.2	.01	2787 ± 41	2702 ± 12	✓
	E42.20-1	07:25	5.79	14.2	1370	102	1.5	-.05	2697 ± 31	2723 ± 12	✓
	C23.6-1	07:43	5.51	14.6	1357	600	1.6	.05	591 ± 4	579 ± 27	✓