

UWA SHRIMP DATA LOG

Date: 2/7/02 UWA Mount No.: C-33 Whose sample?: Stu. B / AmiRA 624 Operator(s): Stu B / Matt 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* ⁴⁰30/10* 10 5 5 2
Phanerozoic* Delay time (secs): 8 3 1 2 1 1 3 2 2

Steel: Wein volts/ nA = ^{Bk}351 for O⁻; = 248 for O₂⁻; = 208 for NO⁻

dead-time = ²⁴ nanosecs expected resolution = >4200 actual resolution = ⁴⁸¹¹

aperture = ¹⁰⁰ 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 = 2.003

206-207 = 1.000 206-208 = 2.000

Primary-epoxy = 1.9 nA Primary-CZ3 = 2.7 nA PESABM-CZ3 = 41 pA

Raster time (mins): 1.0 Raster aperture (microns): 70 No. of scans: 7

Comments: Population E: E407
A: E401

Standards
n = 13
2.19%

FT/B = 0.26
 HT/LT = 0.81
 Sens = 17.3

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>CZ.1-1</u>	<u>10:20</u>	<u>6.41</u>	<u>15.0</u>	<u>1400</u>	<u>238</u>	<u>1.4</u>	<u>.09</u>	<u>571</u> <u>554</u>	✓
	<u>CZ.1-2</u>	<u>10:43</u>	<u>6.31</u>	<u>15.0</u>	<u>1400</u>	<u>237</u>	<u>3.6</u>	<u>0.15</u>	<u>571</u> <u>571</u>	
	^{E407} <u>E.1-1</u>	<u>11:07</u>	<u>6.26</u>	<u>16.0</u>	<u>540</u>	<u>16</u>	<u>1.0</u>	<u>.22</u>	<u>2775</u> <u>2705 ± 20</u>	✓
	^{E407} <u>E.2-1</u>	<u>11:33</u>	<u>6.25</u>	<u>16.0</u>	<u>580</u>	<u>17</u>	<u>1.5</u>	<u>.31</u>	<u>2624</u> <u>2720 ± 20</u>	✓
	<u>CZ.1-3</u>	<u>11:58</u>	<u>6.32</u>	<u>16.0</u>	<u>1400</u>	<u>240</u>	<u>2.1</u>	<u>.15</u>	<u>564</u> <u>546</u>	
	^{E407} <u>E.3-1</u>	<u>12:20</u>	<u>7.05</u>	<u>17.0</u>	<u>2100</u>	<u>142</u>	<u>19.3</u>	<u>1.4</u>	<u>1074</u> <u>2710 ± 17</u>	✓
	<u>E407.4-1</u>	<u>12:52</u>	<u>6.62</u>	<u>16.0</u>	<u>1800</u>	<u>63</u>	<u>17.3</u>	<u>1.3</u>	<u>2139</u> <u>2748 ± 17</u>	
	<u>E407.5-1</u>	<u>13:15</u>	<u>6.29</u>	<u>16.0</u>	<u>1000</u>	<u>30</u>	<u>0.8</u>	<u>.09</u>	<u>2750</u> <u>2711 ± 13</u>	

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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?
	E407.5-2	13:36	6.09	16	2000	60	1.1	.07	2720	2722 ±10	
	CZ. 1-4	14:00	6.39	16	1500	238	1.3	.11	582	583	✓
	CZ. 1-5	14:32	6.57	13	1300	249	2.8	.18	559	475	
	E407.6-1	14:52	6.88	14	1900	76	12.3	.80	2062	2691 ±14	
	E407.7-1	15:14	6.23	16	1400	40	2.7	.24	2735	2708 ±13	
	E407.8-1	15:44	6.55	15	1200	36	2.7	.28	2659	2638 ±14	
	E407.9-1	16:11	6.37	16	1300	37	1.3	.12	2747	2740 ±11	
	CZ. 1-6	16:34	6.56	15	1500	237	1.0	.11	584	539	✓
	E407.10-1	17:02	6.40	15	930	28	1.2	.15	2695	2722 ±14	
	E407.10-2	17:24	6.30	13	1300	44	0.7	.06	2780 ±32	2737 ±10	✓
	CZ. 1-7	18:00	6.57	12	1200	249	2.6	.22	564 ±4	563 ±35	✓
	E407.11-1	18:23	7.47	12	1600	112	15.1	1.09	1323 ±13	2713 ±14	✓
	E407.12-1	18:47	7.83	11	1200	170	34.2	3.11	714 ±6	2648 ±28	✓
	E407.13-1	19:09	6.49	12	860	34	3.6	.39	2659 ±37	2732 ±18	✓
	E407.14-1	19:32	6.48	12	990	37	2.1	.21	2707 ±33	2708 ±13	✓
	E407.14-2	19:51	6.37	12	1000	37	2.2	.21	2741 ±35	2678 ±13	✓
	CZ. 1-8	20:13	6.33	13	1200	251	4.5	.38	553 ±9	542 ±45	✓
	E407.15-1	20:36	6.38	14	1100	37	3.9	.39	2595 ±30	2716 ±16	✓
196/6	E407.16-1	20:57	6.66	12	1500	60	7.4	.50	2411 ±25	2716 ±12	✓
* Scan 2 Scan 7	E407.17-1	21:22	7.51	13	1700	87	15.7	1.16	1629 ±377	2585 ±60	✓
	E407.18-1	21:48	6.97	11	1300	72	17.0	1.37	1785 ±89	2608 ±44	✓
i unstable.	CZ. 1-9	22:10	6.69	12	1200	246	4.9	.41	561 ±19	461 ±55	✓
	E407.19-1	22:36	6.42	11	800	31	3.3	.37	2750 ±103	2821 ±40	✓
	E407.20-1	23:15	6.63	9.8	6400	314	3.8	.05	2525 ±132	2727 ±42	✓
* Scan 6 Scan 7	E407.21-1	23:46	6.45	13	1500	51	1.6	.11	2751 ±237	2659 ±42	✓

1° dropped out, returned → OK

1° bump to stabilise →

i unstable.

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?
	Cz.1-10	00:19	6.32	11	1000	248	3.3	.28	551 ±14	532 ±37	✓
	E407.22-1	00:41	6.44	11	1400	67	5.8	.38	2282 ±29	2705 ±11	✓
	E407.23-1	01:03	6.64	13	1400	53	16.3	1.29	2366 ±27	2713 ±20	✓
	E407.24-1	01:26	6.64	13	1400	69	10.6	.81	1937 ±24	2707 ±15	✓
	Cz.1-11	01:48	6.26	14	1200	234	2.4	.21	574 ±4	534 ±32	✓
	E401.1-1	02:12	7.05	13	5400	177	86	1.84	2528 ±26	2482 ±13	✓
	E401.2-1	02:36	6.60	13	3000	104	3.7	.14	2559 ±42	2675 ±75	✓
	Cz.1-12	03:52	6.41	9.2	870	247	3.0	.25	557 ±7	552 ±38	✓
	E401.3-1	04:21	6.63	9.3	1900	101	19.7	.77	2465 ±48	2585 ±15	✓
	E401.4-1	04:44	6.58	9.5	2600	127	4.9	.44	2630 ±102	2672 ±7	✓
	E401.5-1	05:06	6.71	10	2500	116	4.1	.13	2566 ±20	2667 ±8	✓
	E401.6-1	05:35	6.46	16	2100	102	6.9	.26	2551 ±23	2671 ±11	✓
	Cz.1-13	06:02	6.37	11	980	245	2.0	.17	558 ±4	581 ±44	✓
	E401.7-1	06:27	7.62	10	1100	49	2.0	.18	2193 ±448	2692 ±13	✓

E401 start
 * Scan 3
 * Scan 4
 Tune i now ~ 1.7mV rms.

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are dropped out during last scan
 delete scan 7 → OK