

UWA SHRIMP DATA LOG A

Date: 10/11/03 UWA Mount No.: 03-43 Whose sample?: Marco Operator(s): Ap & MB

Indicate any change to the following: 196 204 bkg 206 207 208 238 248 254 270 196Hf

Precambrian Count time (secs): 2 10 10 10/20* 30/10* 10 5 5 2 2

Phanerozoic* Delay time (secs): 82 3 1 2 1 1 3 2 2 8

Steel: Wein volts / nA = 68/16 for O₂; = 45/2.6 for O₂; = 36/4 for NO₂

dead-time = 24 nanosecs expected resolution = >4200 actual resolution = 4648

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

206-207 = 1.000 206-208 = 2.000

Primary-epoxy = 2.2 nA Primary-CZ3 = 3.0 nA PESABM-CZ3 = 46 pA

Raster time (mins): 1 Raster aperture (microns): 50 No. of scans: 5

Comments: A & B ~ 20 sensitivity 13.24

conc std = 1.8957 8/0 = 0.2207 40/0 6:7426

-20 A_{tot} = 20
B_{tot} = 20
C_{tot} = 20

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>C2-1-1</u>	<u>11:16</u>	<u>6.42</u>	<u>16</u>	<u>1700</u>	<u>238</u>	<u>-</u>	<u>-</u>	<u>572 ± 5</u>	<u>548 ± 51</u>	<u>by-204 out by +.06</u>
	C2-1-2	12:13	6.74	15	1800	238	1.3	0.11	571 ± 5	603 ± 43	<u>New std.</u>
	<u>C2-1-3</u>	<u>12:30</u>	<u>6.63</u>	<u>15</u>	<u>1800</u>	<u>250</u>	<u>2.9</u>	<u>0.24</u>	<u>569 ± 4</u>	<u>517 ± 41</u>	<u>✓</u>
	<u>A-1-1</u>	<u>12:49</u>	<u>6.12</u>	<u>17</u>	<u>560</u>	<u>185</u>	<u>3.9</u>	<u>1.01</u>	<u>243 ± 2</u>	<u>-</u>	<u>✓</u>
	<u>A-2-1</u>	<u>13:05</u>	<u>6.03</u>	<u>16</u>	<u>390</u>	<u>200</u>	<u>1.1</u>	<u>0.38</u>	<u>167 ± 2</u>	<u>115 ± 217</u>	<u>✓</u>
	<u>C2-1-4</u>	<u>13:22</u>	<u>6.89</u>	<u>15</u>	<u>1800</u>	<u>236</u>	<u>1.6</u>	<u>0.14</u>	<u>574 ± 6</u>	<u>575 ± 42</u>	<u>✓</u>
	<u>A-3-1</u>	<u>13:38</u>	<u>6.56</u>	<u>16</u>	<u>170</u>	<u>56</u>	<u>1.0</u>	<u>0.90</u>	<u>243 ± 4</u>	<u>69 ± 447</u>	<u>✓</u>
	<u>A-4-1</u>	<u>13:54</u>	<u>6.92</u>	<u>15</u>	<u>200</u>	<u>133</u>	<u>0.2</u>	<u>0.16</u>	<u>118 ± 20</u>	<u>215 ± 20</u>	<u>✓</u>

by-204 out by +.06.

computer freeze →

Rejection over-ride	Sample/ Std ID	Time - printout	UO/U	196 Kcps	206 cps	U ppm	²⁰⁴ Pb ppb	f ₂₀₆ %	Age ±1σ (Ma)		Offsets OK?
									206/238	207/206	
	A-5-1	14:12	6.38	17	23	14	0.9	5.67	126 ± 10	—	probs 206 counting ✓
	C2B-5	14:30	6.79	16	1800	230	2.1	0.18	572 ± 4	621 ± 50	✓
	A-6-1	14:47	6.84	16	76	76	1.7	3.41	74 ± 2	—	✓
	A-7-1	15:04	6.42	16	950	292	1.4	0.22	256 ± 3	200 ± 84	✓
	A-8-1	15:21	6.31	17	2400	301	1.2	0.08	592 ± 4	599 ± 32	✓
	A-9-1	15:40	6.75	14 ↓	84	63	0.5	0.73	117 ± 2	0	✓
	A-10-1	15:58	6.66	16	60	38	1.7	4.28	115 ± 3	0	✓
	C2 2-1	16:14	6.21	17	1700	233	—	—	570 ± 4	629 ± 32	✓
	A-11-1	16:30	6.20	16	130	131	1.1	6.24	80 ± 1	0	✓
	A-12-1	16:46	6.38	16	3800	144	0.9	0.04	1865 ± 17	1877 ± 31	✓
	A-13-1	17:02	6.64	16	400	260	1.0	0.39	120 ± 1	0	✓
	A-14-1	17:21	5.80 ↓	16	270	54	0.9	0.46	444 ± 6	440 ± 195	✓
	A-15-1	17:38	6.61	16	1100	71	2.1	0.13	1149 ± 14	1019 ± 47	✓
	C2 2-2	17:55	6.67 ↑	16	1800	231	—	—	585 ± 6	684 ± 60	✓
	A-16-1	18:11	7.24	15	97	62	0.6	1.0	116 ± 3	0	✓
	A-17-1	18:29	7.16	15	220	165	0.7	0.54	98 ± 1	0	✓
	A-18-1	18:45	6.56	16	370	285	0.0	0.01	99 ± 1	142 ± 95	✓
	A-19-1	19:03	6.13	16	42	31	2.0	6.72	106 ± 6	—	✓
	A-20-1	19:20	6.69	15	190	92	0.9	0.72	167 ± 2	0	✓
	C2 2-3	19:36	6.82	15	1800	243	—	—	565 ± 4	620 ± 30	✓
	B.1-1	19:52	6.77	16	1800	216	1.7	0.15	605 ± 4	772 ± 40	✓
	B.2-1	20:08	7.00	15	840	362	2.3	0.42	177 ± 1	—	✓
	B.3-1	20:31	5.82	14	31	3.4	1.1	4.2	50 ± 1	—	✓
	B.4-1	20:53	7.33	11	190	26	0.3	0.21	706 ± 305	891 ± 390	✓
	B.5-1	21:12	6.77	18	7300	270	0.6	0.02	1618 ± 36	1869 ± 48	✓

are dropped to 50%
during scan 2

[B]

[A]

Rejection over-ride	Sample/ Std ID	Time - printout	UO/U Kcps	196 Kcps	206 cps	U ppm	²⁰⁴ Pb ppb	f ₂₀₆ %	Age ±1σ (Ma) 206/238	207/206	Offsets OK?
	C2.1-4 ¹⁻⁶	21:28	6.82	19	2200	231	0.8	0.07	576 ± 8	432 ± 48	✓
	B.6-1	21:45	6.56	19	2400	86	0.5	0.03	1913 ± 16	1867 ± 17	✓
	B.7-1	22:01	5.69	13	450	338	2.0	0.45	180 ± 58	-	✓
	B.8-1	22:20	6.64	19	310	86	-	-	238 ± 3	78 ± 167	✓
	B.9-1	22:26	6.27	20	520	137	1.6	0.53	251 ± 3	136 ± 144	✓
	B.10-1	22:53	6.47	20	1300	974	-	-	88 ± 1	230 ± 51	✓
	C2.1-5 ²⁻⁴	23:13	6.82	18	2000	229	-	-	579 ± 6	642 ± 37	✓
	B.11-1	23:31	6.10	19	410	22	2.1	0.83	1249 ± 21	1085 ± 111	✓
	B.12-1	23:47	5.90	16	2300	137	0.2	0.01	1422 ± 30	1521 ± 45	✓
	B.13-1	00:03	6.04	21	110	25	1.4	2.38	275 ± 6	-	✓
	B.14-1	00:21	6.05	20	4200	139	0.6	0.02	1822 ± 13	1803 ± 16	✓
	B.15-1	00:37	5.96	19	2300	47	0.7	0.53	346 ± 11	298 ± 276	✓
	C2.1-6 ¹⁻⁷	00:54	6.56	19	2100	225	0.8	0.07	585 ± 4	551 ± 35	✓
	B.16-1	01:09	5.69	19	320	89	4.8	2.23	280 ± 4	365 ± 315	✓
	B.17-1	01:26	6.21	19	490	16	2.2	6.77	1854 ± 92	1812 ± 67	✓
	B.18-1	01:43	6.24	18	190	55	1.1	0.87	260 ± 4	333 ± 250	✓
	B.19-1	01:59	5.74	14	870	259	1.3	0.17	351 ± 381	245 ± 87	✓
	B.20-1	02:17	6.43	17	920	33	2.5	0.43	1827 ± 23	1883 ± 60	✓
	C2.1-7 ²⁻⁵	02:33	5.74	18	1600	226	1.1	0.10	563 ± 6	507 ± 44	✓
	C.1-1	02:50	6.79	17	150	58	1.4	1.53	187 ± 3	-	✓
	C.2-1	02:06	6.83	14	2600	99	1.7	0.10	1891 ± 16	1833 ± 18	✓
	C.3-1	03:22	6.45	19	610	383	1.8	0.52	108 ± 1	-	✓
	C.4-1	03:39	6.58	18	250	73	1.1	0.80	230 ± 3	123 ± 258	✓
	C.5-1	03:55	6.65	18	500	303 ³⁰³	2.3 ^{2.3}	0.79 ^{0.79}	113 ± 1	-	✓
	C2.1-8	04:12	6.52	19	2000	221	0.4	0.04	574 ± 7	487 ± 48	✓

B

1° shifted during 4th scan

C

Mount/sample No: 03-43

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Rejection over-ride	Sample/ Std ID	Time - printout	UO/U	196 Kcps	206 cps	U ppm	204Pb ppb	f ₂₀₆ %	Age ±1σ (Ma)		Offsets OK?
									206/238	207/206	
	C-6-1	04:29	6.05	19	2400	467	6-2	0.42	369±2	339±87	✓
	C-7-1	04:46	5.78	14	72	42	0.8	1.21	178±5	461±526	✓
	C-8-1	05:03	5.64	15	87	66	1.8	0.02	130±3	—	✓
	C-9-1	05:18	6.68	18	170	96	—	—	122±2	543±310	✓
	C-10-1	05:27	6.17	17	130	86	—	—	122±3	563±92	✓
	CZ-1-9	05:53	6.86	18	2000	224	1.8	0.16	576±4	523±36	✓
	C-11-1	06:11	5.89	20	200	63	4.2	3.4	224±4	—	✓
	C-12-1	06:27	6.26	19	660	411	2.2	0.56	112±1	—	✓
	C-13-1	06:44	6.85	18	100	59	0.5	6.78	116±2	—	✓
	C-14-1	07:02	6.54	18	8200	266	1.8	0.04	1875±13	1888±15	✓
	C-15-1	07:18	6.53	18	160	81	5.0	5.37	130±3	612±525	✓
	CZ-1-10	07:35	6.65	18	2000	229	0.0	0.00	572±5	606±72	✓
	C-16-1	07:53	6.20	19	140	89	—	—	115±1	245±119	✓
	C-17-1	08:10	6.28	18	290	24	2.0	11	753±56	—	✓
	C-18-1	08:26	6.74	18	370	138	1.3	0.62	178±2	—	✓
	C-19-1	08:42	6.08	18	4000	117	5.2	0.20	2241±17	2228±16	✓
rim	C-20-1	08:59	6.50	18	1300	489	2.4	0.19	183±2	216±76	✓
core	C-20-2	09:16	6.64	17	870	317	1.4	0.27	193±1	180±74	✓
	CZ-1-11	09:32	7.39	13	1600	226	1.3	0.12	568±4	511±44	✓