

UWA DATA LOG: SHRIMP ZIRCON U-Pb

Date 5/11/98 UWA Mount No. 98-55 Whose sample? Jayme Operator(s) McN/JL

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

Precambrian Count time (secs): 2 10 10 ~~40/20~~ ~~20/10~~ 10 5 5 2
 Phanerozoic* Delay time (secs): 8 3 1 2 1 1 3 2 2

expected 196-204 = 8.170 amu expected 204-bkg = 0.045 amu Dead-time = 3.2 nanosecs
 actual 196-204 = 3.163 actual 204-bkg = 0.045 expected resolution = >4200
 actual 206-207 = 1.000 actual 206-208 = 1.999 actual resolution = 5734

Primary = 3.2 nA PESABM = 48 pA actual Primary : PESABM (= 50:1) =
 Raster time (mins): 1 Raster aperture (microns): 120 No. of scans: 6

Comments:

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>sl. 2-1</u>	<u>11:02</u>	<u>5.82</u>	<u>19.9</u>	<u>1986</u>	<u>220</u>	<u>-0.4</u>	<u>.01</u>	<u>572 ± 1</u>	<u>628 ± 19</u>	<u>OK</u>
	<u>sl. 2-2</u>	<u>11:19</u>	<u>5.87</u>	<u>19.9</u>	<u>2026</u>	<u>217</u>	<u>-0.1</u>	<u>/</u>	<u>579 ± 1</u>	<u>620 ± 19</u>	<u>"</u>
	<u>B. 2-1</u>	<u>11:40</u>	<u>5.85</u>	<u>19.5</u>	<u>1419</u>	<u>142</u>	<u>0.2</u>	<u>.03</u>	<u>634 ± 1</u>	<u>613 ± 22</u>	<u>"</u>
	<u>B. 8-1</u>	<u>12:00</u>	<u>5.75</u>	<u>20.8</u>	<u>3.7K</u>	<u>370</u>	<u>0.5</u>	<u>.02</u>	<u>627 ± 1</u>	<u>618 ± 16</u>	<u>"</u>
	<u>sl. 2-3</u>	<u>12:17</u>	<u>6.15</u>	<u>18.9</u>	<u>2043</u>	<u>203</u>	<u>1.0</u>	<u>.09</u>	<u>564 ± 1</u>	<u>567 ± 28</u>	<u>"</u>
	<u>B. 6-1</u>	<u>12:36</u>	<u>5.85</u>	<u>20.6</u>	<u>3.9K</u>	<u>366</u>	<u>5.9</u>	<u>.27</u>	<u>634 ± 1</u>	<u>652 ± 19</u>	<u>"</u>
	<u>B. 6-2</u>	<u>12:53</u>	<u>6.07</u>	<u>19.3</u>	<u>4.7K</u>	<u>426</u>	<u>-0.7</u>	<u>/</u>	<u>632 ± 1</u>	<u>607 ± 12</u>	<u>"</u>
	<u>B. 10-1</u>	<u>13:12</u>	<u>6.10</u>	<u>19.3</u>	<u>906</u>	<u>82.6</u>	<u>1.2</u>	<u>.25</u>	<u>612 ± 2</u>	<u>603 ± 42</u>	<u>"</u>
	<u>sl. 2-4</u>	<u>13:31</u>	<u>5.85</u>	<u>19.9</u>	<u>1975</u>	<u>214</u>	<u>0.3</u>	<u>.02</u>	<u>580 ± 1</u>	<u>601 ± 22</u>	<u>"</u>
	<u>B. 11-1</u>	<u>13:49</u>	<u>5.98</u>	<u>19.8</u>	<u>2124</u>	<u>194</u>	<u>0.1</u>	<u>.004</u>	<u>637 ± 1</u>	<u>616 ± 18</u>	<u>"</u>
	<u>B. 13-1</u>	<u>14:07</u>	<u>5.62</u>	<u>20.5</u>	<u>1939</u>	<u>209</u>	<u>0.2</u>	<u>.01</u>	<u>648 ± 1</u>	<u>596 ± 19</u>	<u>"</u>

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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?
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	B.14-1	14:25	5.87	22.2	3.2K	299	7.2	.42	600 ± 1	623 ± 26	OK
	sl. 2-5	14:42	5.87	19.5	2001	219	0.5	.05	580 ± 1	563 ± 24	11
	B.16-1	15:02	5.58	20.2	2.69	308	1.1	.05	630 ± 1	617 ± 20	1
	B.18-1	15:20	6.26	19.3	4.4K	376	.6	.02	608 ± 1	605 ± 14	11
	B.19-1	15:40	5.84	20.9	904	87	.3	.06	619 ± 1	531 ± 35	11
	B.20-1	16:01	6.08	19.4	4.3K	386	.4	.01	625 ± 1	629 ± 14	corrected 208
	sl. 2-6	16:22	5.90	19.9	19.79	210	-	-	573 ± 1	607 ± 18	OK
high c. sea d.	B.21-1	16:41	5.63	22.8	26.12	292	12	.44	555 ± 1	654 ± 34	OK
	B.22-1	Aborted high 204 counts									
	B.22-2	17:06	5.93	19.8	31.01	293	-	-	630 ± 1	607 ± 14	OK
	B.25-1	17:27	5.28	21.83	386	50	.3	.09	633 ± 3	568 ± 107	11
changed 31 sample C	sl. 2-7	17:45	5.59	21.97	19.49	220	-	-	586 ± 1	547 ± 19	11
	C01-1	18:06	5.72	20.02	598	67	-	-	599 ± 2	594 ± 33	OK
	C02-1	18:27	5.61	20.66	346	39	-	-	609 ± 2	659 ± 43	11
	C02-2	18:46	5.93	19.88	879	82	.5	.1	634 ± 2	144 ± 83	11
	C04-1	19:06	5.97	19.08	837	82	0	-	617 ± 1	666 ± 27	11
	sl. 2-8	19:25	5.70	21.15	1846	207	-	-	574 ± 1	518 ± 20	OK
	C05-1	19:48	5.40	21.48	331	41	-	-	618 ± 2	651 ± 44	OK
	C06-1	20:06	5.79	19.76	474	51	-	-	603 ± 2	490 ± 40	OK
	C07-1	20:25	5.73	19.54	517	58	0	.01	607 ± 2	563 ± 37	OK
	C08-1	20:45	5.73	20.19	630	66	-	-	625 ± 2	576 ± 33	OK
	sl. 1-1	21:05	5.82	20.84	1954	208	.8	.07	569 ± 1	597 ± 22	OK
	C09-1	21:37	5.63	18.22	531	67	.1	.01	630 ± 2	655 ± 34	OK
	C10-1	21:57	5.87	19.71	982	98	1.3	.2	622 ± 2	563 ± 41	OK
	C10-2	22:17	5.57	20.19	356	42	1.4	.5	607 ± 2	833 ± 40	

573 — 563
439 — 2

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?
	C11-1	22:37	5.36	19.21	551	80	1.2	.2	606±2	593±53	OK
	SL1-2	23:02	6.25	17.59	19.73	197	.4	.04	570±1	550±19	OK!
	C12-1	23:26	5.64	15.4	2696	392	2.5	.1	624±1	594±20	OK!
	C13-1	23:49	5.72	20.04	1762	193	.7	.06	607±1	581±29	OK
	C14-1	00:08	5.67	18.54	529	65	-	-	607±2	618±35	OK
	C14-2	00:24	5.54	18.25	710	94	1.4	.2	622±	533±50	OK
	SL1-3	00:44	5.70	20.43	1965	222	0.0	.001	588±1	573±19	OK
	C15-1	01:05	5.48	20.67	732	88	7.1	1.3	616±2	526±80	OK
	C16-1	01:24	5.78	19.21	679	74	.1	.01	614±2	562±34	OK
	A06-1	01:42	5.74	20.30	584	102	-	-	2038±6	2059±8	OK
	A05-1	02:02	6.09	19.29	263	52	.2	.07	2055±8	2090±11	OK
	f3-1	02:24	5.67	19.79	1827	222	.4	.03	575±1	576±24	OK
	SL3-2	02:42	5.64	21.40	1927	219	.6	.07	579±1	567±35	OK
	A07-1	03:02	5.78	20.41	1917	116	3.3	.2	1004±2	1033±22	OK
	A15-1	03:24	6.15	18.43	1513	40	.7	.07	1915±8	2083±12	OK
	A14-1	03:43	5.95	19.60	650	18	.1	.01	1919±11	1878±17	OK
	A13-1	Aborted		high error		P5					
	A16-1	04:13	5.58	21.57	978	81	.3	.04	804±2	780±48	OK
	A17-1	04:33	5.56	18.36	1386	49	.7	.05	2024	2223±13	OK
	SL3-3	04:51	5.56	21.68	2000	231	.4	.02	593±1	517±23	OK
	A18-1	05:22	5.95	19.79	2206	59	.5	.03	1973±7	2045±9	OK
	A21-1	05:40	5.86	20.69	868	21	.0	-	2119±11	2076±15	OK
	A04-1	06:11	5.89	21.30	1457	35	.4	.04	2060±9	2087±12	OK
	A01-1	06:32	5.58	20.31	977	24	.4	.05	2223±12	2138±15	OK
	SL3-4	06:52	5.88	20.30	2072	213	-	-	581±1	560±15	OK

Change e/
sample A ↓

Change
interactions
206 - 10'
207 - 30'

7400
500
19:02
0.12
0.13

1800 556605 (white
low. v. tr. paul - com. an. 0.6

