

UWA DATA LOG: SHRIMP ZIRCON U-Pb

Date: 6/5/97 UWA Mount No.: 96-81 Whose sample?: MEB/CA Operator(s): AMPARO EF + AP

Indicate any change to the following:

	196	204	bkg	206	207	208	238	248	254
Precambrian	Count time (secs):	2 / 10	10 / 10	10	30/10*	10	5	5	2
Phanerozoic*	Delay time (secs):	8 / 3	1 / 1	2	1 / 1	1	3	2	2

expected 196-204 = 8.170 amu expected 204-bkg = 0.040 amu Dead-time = 32 nanosecs

actual 196-204 = 8.168 actual 204-bkg = 0.040 expected resolution = >4200

actual 206-207 = 1.907 actual 206-208 = 2.001 actual resolution = 5205

Primary = 2.2 nA PESABM = 3.5 pA actual Primary : PESABM (≈ 50:1) = 63

Raster time (mins): 2 Raster aperture (microns): 100 No. of scans: 4

Comments:

No Rejection Processed (8% dk)

Rejection over-ride	Sample/Std ID	Time - printout	UO/U	196 k cps	206 cps	U ppm	²⁰⁴ Pb ppb	f ₂₀₆ %	Age ±1σ (Ma)	206/238	207/206	Corr.
	<u>SL 681-2-1</u>	<u>11:34</u>	<u>6.93</u>	<u>13.3</u>	<u>1529</u>	-	<u>3.6</u>	<u>.02</u>	-	<u>557</u>	<u>208</u>	
	<u>2-2</u>	<u>11:46</u>	<u>6.90</u>	<u>13.6</u>	<u>1525</u>	<u>217</u>	<u>0.1</u>	-	<u>577</u>	<u>568</u>	-	
	<u>B. 10-1</u>	<u>12:01</u>	<u>6.95</u>	<u>13.5</u>	<u>357</u>	<u>27</u>	<u>2.3</u>	<u>.79</u>	<u>1033</u>	<u>1204</u>	<u>204</u>	
	<u>B. 11-1</u>	<u>12:17</u>	<u>7.11</u>	<u>13.2</u>	<u>122</u>	<u>38</u>	<u>0.7</u>	<u>.88</u>	<u>257</u>	<u>62</u>	<u>204</u>	
	<u>B. 12-1</u>	<u>12:31</u>	<u>6.99</u>	<u>13.6</u>	<u>380</u>	<u>113</u>	<u>4.6</u>	<u>1.3</u>	<u>267</u>	-	<u>204</u>	
	<u>SL 2-3</u>	<u>12:56</u>	<u>7.03</u>	<u>13.0</u>	<u>1485</u>	<u>213</u>	<u>0.4</u>	<u>.02</u>	<u>563</u>	<u>599</u>	<u>208</u>	
	<u>B. 13-1</u>	<u>13:12</u>	<u>6.81</u>	<u>13.3</u>	<u>95</u>	<u>26</u>	<u>0.3</u>	<u>.36</u>	<u>328</u>	<u>470</u>	<u>204</u>	
	<u>B. 14-1</u>	<u>13:30</u>	<u>6.89</u>	<u>13.2</u>	<u>300</u>	<u>103</u>	<u>~2e</u>	-	<u>255</u>	<u>380</u>	-	
	<u>B. 15-1</u>	<u>13:43</u>	<u>6.94</u>	<u>13.7</u>	<u>1005</u>	<u>286</u>	<u>4.4</u>	<u>6.1</u>	<u>269</u>	-	<u>204</u>	
	<u>B. 16-1</u>	<u>13:56</u>	<u>7.27</u>	<u>12.6</u>	<u>143</u>	<u>44</u>	<u>6.8</u>	<u>7.0</u>	<u>235</u>	-	<u>204</u>	
	<u>SL 2-4</u>	<u>14:10</u>	<u>top page not printed. Screen output was ok.</u>									

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Rejection over-ride	Sample/ Std ID	Time - printout	UO/U	196 kcps	206 cps	U ppm	204Pb ppb	f206 %	Age ±1σ (Ma)		Corr.
									206/238	207/206	
	B.17-1	-	no printout						File should be OK		
	B.18-1	14:44	7:24	12.6	1577	102	21.	1.8	1122	1120	204
	B.19-1	14:59	7:24	12.6	1157	199	42.	5.1	430	273	204
	B.20-1	15:16	6:83	13.1	919	177	0.5	0.07	458	572	204
	B.21-1	15:29	7:12	12.9	163	46	1.1	0.97	279	-	204
	SL 2-5	15:43	7:16	12.4	1460	209	-ve	0.06	563	592	208
	B.22-1	15:57	7:11	13.0	302	100	3.1	1.5	240	248	204
	B.23-1	16:09	7:12	13.0	639	85	0.9	0.18	592	564	204
	B.24-1	16:27	6:92	13.4	857	297	5.8	0.92	240	69	204
	B.25-1	16:39	7:23	12.7	278	82	17.	6.8	248	-	204
	B.26-1	16:52	7:19	12.4	898	160	-ve	-	454	520	-
	B.27-1	17:05	6:99	13.7	89	29	1.8	2.1	247	-	204
	SL 2-6	17:21	6:86	13.4	1455	214	0.2	0.06	574	625	208
	B.28-1	17:35	7:07	12.9	240	74	-ve	-	266	402	-
	B.29-1	17:47	7:08	13.3	1198	145	113.	12.	563	1002	204
	B.30-1	18:03	6:95	12.9	474	153	15.	4.1	257	-	204
	B.31-1	18:16	6:99	13.1	555	180	18.	4.4	247	-	204
	SL 2-7	18:29	6:94	13.9	1779	196	11.	0.8			
	B.32-1	18:29	6:96	13.9	1779	196	11.	0.80	700	905	204
	SL 2-7	18:41	6:91	13.7	1426	211	1.5	0.03	549 ± 1	723 ± 28	208
	B.33-1	18:55	7:21	12.6	568	195	4.4	0.83	233 ± 1	-	204
	B.34-1	19:11	7:06	13.2	140	42.6	-1.5	0.06	262 ± 1	278 ± 176	208
	B.35-1	19:24	7:33	12.6	312	95.8	5.8	2.09	245 ± 1	-	204
	B.36-1	19:37	7:17	12.8	134	⁴¹ 182 4.2	⁴¹ 182 4.2	3.34	252 ± 3	-	204
	B.37-1	19:50	7:21	12.3	1078	292	4.1	0.52	299 ± 1	212 ± 82	204
	SL 2-8	20:03	6:79	13.0	1444	219	-0.5	0.03	588 ± 1	489 ± 30	208

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Rejection over-ride	Sample/ Std ID	Time - printout	UO/U	196 cps	206 cps	U ppm	²⁰⁴ Pb ppb	f ²⁰⁶ %	Age ±1σ (Ma) 206/238 207/206		Corr.
	B.38-1	20:16	6.92	12.8	458	86.2	0.8	0.22	462 ± 2	458 ± 99	204
	B.39-1	20:33	6.71	13.1	389	133	1.6	0.49	275 ± 1	64 ± 2	204
	B.40-1	20:46	6.83	12.8	217	78.4	3.5	2.03	249 ± 2	34 ± 2	204
	B.41-1	20:58	6.86	13.0	637	223	26.7	5.20	242 ± 2	453 ± 244	204
	B.42-1	21:11	6.88	12.9	304	113	1.6	0.66	238 ± 1	451 ± 217	204
	SL 2-9	21:26	7.01	11.9	1439	216	1.0	0.88	592 ± 1	491 ± 40	208
	B.43-1	21:41	7.11	12.7	254	83.1	-ve	0.27	252 ± 1	202 ± 141	208
	B.44-1	21:57	7.01	12.4	1279	99.7	0.0	-	1053 ± 4	1101 ± 25	20-
	B.45-1	22:10	6.80	12.7	320	108	30.9	8.62	262 ± 3	0	204
	B.46-1	22:23	6.44	13.5	1138	196	7.6	0.70	585 ± 1	639 ± 65	204
	B.47-1	22:37	7.28	11.9	3061	363	3.2	0.14	671 ± 1	573 ± 26	204
	B.48-1	22:49	7.04	12.2	122	43.8	-0.4	1.65	240 ± 1	0 -	208
	SL 2-10	23:02	6.83	12.8	1377	218	2.7	0.07	566 ± 1	636 ± 30	208
	B.49-1	23:16	7.07	11.6	490	182	10.0	2.49	242 ± 1	414 ± 207	204
	B.50-1	23:29	6.93	12.2	94.7	31.6	6.7	8.24	255 ± 7	757 ± ?	204
	B.51-1	23:45	6.88	12.2	211	79.4	3.9	3.0	248 ± 2	0	204
	B.52-1	23:59	7.23	11.9	663	204	-0.1	0.24	272 ± 1	227 ± 74	208
	B.53-1	24:15	7.10	11.8	624	202	2.0	0.42	273 ± 1	204 ± 121	204
	B.54-1	24:28	7.05	12.2	1790	142	0.9	0.06	1038 ± 3	1036 ± 32	204
	SL 2-11	24:41	7.12	11.8	1397	210	0.2	0.02	572 ± 1	484 ± 31	208
	B.55-1	24:54	7.36	11.8	3431	362	8.5	0.33	734 ± 1	777 ± 26	204
	B.56-1	1:07	7.14	12.1	207	65	8.1	3.94	262 ± 2	0	204
	B.57-1	1:20	7.17	11.5	2453	292	15.2	0.76	713 ± 2	678 ± 45	204
	B.58-1	1:33	6.97	13.3	1686	249	47.7	3.83	532 ± 2	258 ± 134	204
	B.59-1	1:45	6.48	12.6	622	153	-0.4	0.66	435 ± 1	0	208

f²⁰⁶ = 2.0A

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Rejection over-ride	Sample/ Std ID	Time - printout	UO/U	196 cps	206 cps	U ppm	²⁰⁴ Pb ppb	f ²⁰⁶ %	Age ±1σ (Ma) 206/238 207/206		Corr.
	B. 60-1	1:58	6.71	14.1	1156	201	2.4	0.26	494 ± 1	538 ± 62	204
	sl 2-12	2:11	7.25	12.0	1464	207	0.8	0.07	568 ± 1	562 ± 29	208
	B. 61-1	2:28	6.60	12.9	817	37.3	-ve	-	1934 ± 13	1986 ± 22	-
	B. 62-1	2:40	6.96	12.8	170	26.2	-ve	-	547 ± 2	552 ± 83	-
	B. 63-1	2:52	7.16	12.6	1898	326	2.1	0.15	463 ± 1	515 ± 34	204
	B. 64-1	3:04	6.78	13.2	964	122	0.5	0.06	691 ± ?	680 ± ?	204
	B. 65-1	3:17	6.97	12.5	226	81.3	0.0	0.003	247 ± 1	477 ± 74	204
	B. 66-1	3:31	6.92	12.6	133	47.1	-ve	-	254 ± 1	436 ± 99	-
	sl 2-13	3:44	6.86	12.9	1008	216	0.03	0.29	570 ± 1 570 ± 1	624 ± 30	208
	B. 67-1	3:57	7.08	12.2	869	64.3	1.6	0.22	1099 ± 5	1058 ± 5	204
	B. 68-1	4:09	7.44	12.0	309	41.4	0.8	0.35	561 ± 4	588 ± 22	204
	B. 69-1	4:21	6.99	12.1	730	105	1.4	0.23	611 ± 2	720 ± 91	204
	B. 70-1	4:34	6.94	12.4	176	49.9	0.2	0.17	317 ± 1	340 ± 132	204
	B. 71-1	4:46	7.18	11.8	214	69.6	7.3	4.52	254 ± 3	50 ± 2	204
	B. 72-1	4:57	6.99	12.1	1025	102	0.9	0.10	869 ± 3	1039 ± 32	204
	sl 2-14	5:10	7.02	12.0	1471	213	11.7	0.04	601 ± 1	508 ± 33	208
	B. 73-1	5:23	6.63	12.5	1063	355	4.0	0.41	308 ± 1	364 ± 77	204
	B. 74-1	5:38	7.04	12.1	201	68.6	1.0	0.66	259 ± 3	46 ± 2	204
	B. 75-1	5:51	6.89	12.4	1373	201	2.9	0.25	609 ± 1	704 ± 42	204
	B. 76-1	6:04	7.09	11.9	971	972	1.5	0.19	844 ± 3	988 ± 43	204
	B. 77-1	6:16	7.04	11.7	4583	369	1.8	0.05	1070 ± 2	1063 ± 15	204
	B. 78-1	6:29	6.83	12.3	169	58.1	4.5	3.10	268 ± 3	446 ± 308	204
	sl 3-1	6:42	7.19	11.6	1319	202	0.8	0.14	558 ± 1	585 ± 31	208
	B. 79-1	6:55	7.17	11.8	645	215	2.0	0.39	258 ± 1	382 ± 95	204
	B. 80-1	7:07	7.26	11.7	957	106	4.3	0.58	728 ± 3	733 ± 70	204
	sl 3-2	7:20	7.07	11.9	1277	199	-0.1	0.06	562 ± 1	639 ± 31	208