

UWA DATA LOG: SHRIMP ZIRCON U-Pb

Date: 13/10/97 UWA Mount No.: 97-18 Whose sample?: April Operator(s): McN + AP

Indicate any change to the following:

	196	204	bkg	206	207	208	238	248	254
Precambrian	Count time (secs):	<u>2</u>	<u>107</u>	<u>107</u>	<u>10</u>	<u>30/40*</u>	<u>10</u>	<u>5</u>	<u>2</u>
Phanerozoic*	Delay time (secs):	<u>78</u>	<u>3</u>	<u>1</u>	<u>2</u>	<u>1</u>	<u>1</u>	<u>3</u>	<u>2</u>

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

actual 196-204 = 8.161 actual 204-bkg = 0.040 expected resolution = >4200

actual 206-207 = 1.000 actual 206-208 = 2.000 actual resolution = 5216

Primary = 2.6 nA PESABM = 43 pA actual Primary : PESABM (≈ 50:1) = 60

Raster time (mins): 1 Raster aperture (microns): 100 No. of scans: 4

Comments: B = R12960

Calibra = Error 5%. n stds = 15

** Processed, only corrections B38-1.*

Actual slope (1-76) = ~~0.66%~~ 0.48%

Default = 0.48% 0.66%

n6 = 71

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	Corr.
	<u>sl. 1-4</u>	<u>13:28</u>	<u>5.91</u>	<u>16.1</u>	<u>1820</u>	<u>220</u>	<u>-0.7</u>	<u>—</u>	<u>572 ± 1</u>	<u>496 ± 42</u>	<u>—</u>
	<u>sl. 1-5</u>	<u>13:39</u>	<u>5.85</u>	<u>16.0</u>	<u>1831</u>	<u>226</u>	<u>1.1</u>	<u>.09</u>	<u>583 ± 1</u>	<u>605 ± 46</u>	<u>204</u>
	<u>B. 13-1</u>	<u>13:51</u>	<u>5.83</u>	<u>16.3</u>	<u>494</u>	<u>207</u>	<u>2.0</u>	<u>.64</u>	<u>176 ± 1</u>	<u>26 ± 236</u>	<u>u</u>
	<u>B. 14-1</u>	<u>14:00</u>	<u>5.96</u>	<u>15.9</u>	<u>270</u>	<u>72.9</u>	<u>0.0</u>	<u>0.03</u>	<u>260 ± 2</u>	<u>151 ± ?</u>	<u>204</u>
	<u>sl. 1-6</u>	<u>14:11</u>	<u>5.70</u>	<u>16.4</u>	<u>1775</u>	<u>237</u>	<u>4.5?</u>	<u>0.36</u>	<u>574 ± 1</u>	<u>402 ± 62</u>	<u>204 OK</u>
	<u>B. 15-1</u>	<u>14:22</u>	<u>5.86</u>	<u>16.8</u>	<u>641</u>	<u>131</u>	<u>1.7</u>	<u>0.32</u>	<u>340 ± 1</u>	<u>3 ± ?</u>	<u>204</u>
	<u>B. 16-1</u>	<u>14:32</u>	<u>5.51</u>	<u>17.3</u>	<u>141</u>	<u>66.0</u>	<u>1.0</u>	<u>0.75</u>	<u>180 ± 2</u>	<u>0</u>	<u>204</u>
	<u>B. 17-1</u>	<u>14:43</u>	<u>5.69</u>	<u>16.5</u>	<u>941</u>	<u>306</u>	<u>0.8</u>	<u>0.12</u>	<u>243 ± 1</u>	<u>426 ± 73</u>	<u>204</u>
	<u>sl. 1-7</u>	<u>14:53</u>	<u>5.63</u>	<u>17.6</u>	<u>1863</u>	<u>234</u>	<u>0.7</u>	<u>0.05</u>	<u>595 ± 1</u>	<u>536 ± 44</u>	<u>204</u>
	<u>B. 18-1</u>	<u>15:04</u>	<u>5.92</u>	<u>17.1</u>	<u>204</u>	<u>71.1</u>	<u>0.3</u>	<u>0.21</u>	<u>192 ± 1</u>	<u>0</u>	<u>204</u>
	<u>B. 19-1</u>	<u>15:14</u>	<u>5.49</u>	<u>16.6</u>	<u>126</u>	<u>54.9</u>	<u>2.0</u>	<u>2.03</u>	<u>203 ± 4</u>	<u>31 ± ?</u>	<u>204</u>

2.6

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Rejection over-ride	Sample/ Std ID	Time - printout	UO/U	196 cps (k)	206 cps	U ppm	204Pb ppb	f206 %	Age $\pm 1\sigma$ (Ma)		Corr.
									206/238	207/206	
	B20-1	15:24	5.72	17.0	176	47.2	1.3	0.77	277 \pm 3	0	204
	B21-1	15:34	5.87	16.6	789	211	1.7	0.35	263 \pm 1	161 \pm ?	204
	B22-1	15:47	5.80	16.6	220	93.3	-0.4	-	175 \pm 1	96 \pm 0	-
	SL 1-8	15:56	5.76	17.1	1801	225	-1.4	-	571 \pm 1	644 \pm 40	-
	B 23-1	16:06	5.83	16.9	186	48.9	0.1 0.08	0.08	269 \pm 1	188 \pm 170	204
	B24-1	16:16	5.93	16.7	2723	864	-0.5	-	214 \pm 1	205 \pm 39	-
	B25-1	16:26	5.79	16.8	332	137	0.9	0.41	177 \pm 2	29 \pm ?	204
	B26-1	16:37	5.75	17.1	1546	220	1.5	0.15	508 \pm 1	476 \pm 61	204
	B27-1	16:47	5.63	17.3	346	111	0.6	0.26	245 \pm 1	145 \pm ?	204
	B28-1	16:58	5.67	16.7	130	42.6	-0.2	-	242 \pm 1	462 \pm 178	-
	SL 1-9	17:08	5.53	17.6	1785	223	-0.8	-	586 \pm 1	467 \pm 43	-
	B29-1	17:18	5.90	16.6	832	223	-0.6	-	259 \pm 1	329 \pm 67	-
	B30-1	17:28	5.56	17.4	401	88.1	12.6 3.081	3.31	357 \pm 3	0	204
	B31-1	17:37	5.60	17.2	571	113	-1.7	-	404 \pm 1	110 \pm 89	-
	B32-1	17:47	5.71	17.0	1228	222	0.7	0.09	415 \pm 1	698 \pm 90	204
	B33-1	17:56	5.56	16.8	1274	469	1.4	0.15	230 \pm 1	187 \pm 78	204
	B34-1	18:06	5.90	16.6	1299	170	0.4	0.05	518 \pm 1	513 \pm 57	204
	SL 1-10	18:16	5.54	18.1	1718	235	1.4	0.12	567 \pm 1	404 \pm 83	204
	B.35-1	18:26	5.47	17.4	235	83.7	0.2	0.08	243 \pm 1	450 \pm 133	204
	B.36-1	18:36	5.72	16.9	78.5	25.8	1.6	2.27	226 \pm 5	0	204
	B.37-1	18:47	5.71	17.1	1244	250	1.0	0.12	371 \pm 1	380 \pm 73	204
	B.38-1	18:57	5.38	16.9	394	132	0.9	0.27	283 \pm 1	429 \pm 187	204
	B.39-1	19:07	5.55	17.3	189	57.9	2.3	1.25	267 \pm 2	0	204
	B.40-1	19:19	5.62	16.7	792	246	1.7	0.3	262 \pm 1	260 \pm 147	204
	SL 1-11	19:30	5.49	17.8	1743	244	2.9	0.22	579 \pm 1	570 \pm 66	204

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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.41-1	19:39	5.59	16.7	373	112	-0.1	-	279 ± 1	334 ± 101	-
	B.42-1	19:49	5.83	16.4	485	124	-0.7	-	287 ± 1	304 ± 89	-
	B.43-1	20:01	5.74	17.0	354	69.6	2.0	0.64	373 ± 2	0	204
	B.44-1	20:14	5.49	16.8	123	39.8	-0.7	-	273 ± 1	373 ± 174	-
	B.45-1	20:31	5.79	16.7	608	65.7	-0.4	-	657 ± 2	628 ± 70	-
	B.46-1	20:41	5.69	16.4	413	117	1.1	0.39	280 ± 1	205 ± 191	204
	SL1-12	20:54	5.29	18.1	1678	262	2.2	0.15	589 ± 1	449 ± 61	204
	B.47-1	21:04	5.90	16.1	815	156	0.2	0.05	369 ± 2	438 ± 2	204
	B.48-1	21:14	5.70	16.8	465	66.4	0.3	0.09	528 ± 2	582 ± 116	204
	B.49-1	21:24	5.69	16.8	97.2	37.7	0.5	0.52	200 ± 4	0	204
	B.50-1	21:33	5.83	16.6	1266	349	2.4	0.30	262 ± 1	222 ± 87	204
	B.51-1	21:43	5.80	16.4	866	171	-1.9	-	373 ± 1	434 ± 63	-
	B.52-1	21:52	5.70	16.7	692	67.9	3.1	0.62	879 ± 4	902 ± 85	204
	SL6-4	22:05	5.45	17.2	1748	258	1.3 0.09	0.09	585 ± 1	591 ± 49	204
	B.53-1	22:15	5.72	16.8	135	54.0	0.5	0.46	190 ± 1	0	204
	B.54-1	22:24	5.63	18.8	134	50.9	-1.1	-	191 ± 1	75 ± 2	-
	B.55-1	22:35	5.73	16.6	336	126	2.0	0.65	204 ± 1	0	204
	B.56-1	22:47	5.80	16.6	433	129	0.0	0.003	245 ± 2	349 ± 2	204
	B.57-1	22:56	5.77	16.4	334	92.1	-0.1	-	275 ± 1	436 ± 102	-
	B.58-1	23:07	5.62	17.1	287	55.7	2.1	1.03	405 ± 3	187 ± 2	204
	SL6-5	23:12	5.50	17.3	1773	251	1.9	0.14	587 ± 1	530 ± 56	204
	B.59-1	23:27	5.74	16.8	113	41.3	1.1	1.55	203 ± 3	88 ± 2	204
	B.60-1	23:37	5.71	16.6	435	101	0.1	0.05	332 ± 1	272 ± 108	204
	B.61-1	23:47	5.68	16.8	132	48.7	0.3	0.36	211 ± 1	222 ± 2	204
	B.62-1	23:56	5.77	16.7	709	144	0.7	0.14	363 ± 1	185 ± 170	204

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Rejection over-ride	Sample/ Std ID	Time - printout	UO/U	196 cps (K)	206 cps	U ppm	²⁰⁴ Pb ppb	f ₂₀₆ %	Age ± 1σ (Ma) 206/238 207/206		Corr.
	B. 63-1	24:06	5.59	17.0	272	85.7	0.6	0.30	258 ± 1	151 ± 2	204
	B. 64-1	24:16	5.40	16.4	292	117	-0.2	-	242 ± 1	444 ± 10	-
	SL 2-1	24:28	5.67	17.1	1858	244	1.2	0.09	575 ± 1	553 ± 58	204
	B. 65-1	24:38	5.71	16.8	263	81.3	-1.9	-	249 ± 1	508 ± 112	-
	B. 66-1	24:47	5.74	16.7	673	205	1.0	0.23	248 ± 2	229 ± 2	204
	B. 67-1	24:57	5.63	16.8	1070	336	-0.9	-	256 ± 1	300 ± 60	-
	B. 68-1	1:06	5.73	16.9	376	122	-0.4	-	233 ± 1	90 ± 2	-
	B. 69-1	1:15	5.73	16.6	110	45.3	1.0	1.06	186 ± 2	0	204
	B. 70-1	1:25	5.47	16.1	125	44.7	-0.9	-	260 ± 1	284 ± 181	-
	SL 2-2	1:35	5.82	16.6	1864	229	0.5	0.04	575 ± 1	552 ± 65	204
	B. 71-1	1:45	5.56	16.9	147	64.5	0.3	0.31	192 ± 1	225 ± 2	204
	B. 72-1	1:54	5.82	16.2	762	225	0.6	0.11	253 ± 2	199 ± 2	204
	B. 73-1	2:04	5.49	16.7	328	116	-0.1	-	251 ± 1	319 ± 108	-
	B. 74-1	2:13	5.62	16.8	141	58.9	-0.6	-	195 ± 1	?	-
	B. 75-1	2:23	5.35	15.9	813	124	1.2	0.43	258 ± 2	178 ± 2	204
	B. 76-1	2:33	5.56	16.7	1186	168	-0.7	-	584 ± 1	572 ± 51	-
	SL 2-3	2:43	5.68	16.7	1865	245	0.9	0.07	584 ± 1	530 ± 50	204
	B. 77-1	2:53	5.87	16.5	352	101	1.0	0.82	247 ± 2	247 ± 2	204
	B. 78-1	3:04	5.79	16.5	726	292	2.3	0.50	186 ± 1	106 ± 2	204
	B. 79-1	3:14	5.24	17.2	158	73.0	2.2	1.13	223 ± 2	0	204
	B. 80-1	3:23	5.45	16.6	192	82.6	2.1	1.35	213 ± 2	15 ± 2	204
	B. 81-1	3:33	5.56	16.5	399	132	-3.0	-	261 ± 1	301 ± 99	-
	B. 82-1	3:43	5.56	17.1	196	56.2	-0.5	-	289 ± 1	193 ± 149	-
	SL 2-4	4:04	5.75	16.7	1823	235	2.7	0.22	569 ± 1	536 ± 52	204
	B. 83-1	3:53	5.64	16.8	1703	522	3.2	0.26	261 ± 1	98 ± 78	204