

**UWA DATA LOG: SHRIMP ZIRCON U-Pb**

Date: 10/2/98 UWA Mount No.: 97-36 Whose sample?: Yumin Operator(s): IF + NHCN + YQ

Indicate any change to the following: 196 204 bkg 206 207 208 238 248 254  
**Precambrian** Count time (secs): 2 / 10 / 10 / 10 / 20 / 20  
**Phanerozoic\*** Delay time (secs): 8 / 3 / 1 / 2 / 1 / 1 / 3 / 5 / 2

expected 196-204 = 8.170 amu expected 204-bkg = 0.040 amu Dead-time = 32 nanosecs  
 actual 196-204 = 8.170 actual 204-bkg = 0.044 expected resolution = >4200  
 actual 206-207 = 1.000 actual 206-208 = 1.999 actual resolution = 5090  
 Primary = 2.8 nA PESABM = 36 pA actual Primary : PESABM (= 50:1) = 78  
 Raster time (mins): 2 Raster aperture (microns): 120 No. of scans: 5

Comments: Sensitivity = 16  
C = JCHGL-6

1 std = 9 % = 1.59

(Actual slope = 1.63, % = 1.39)

Rejection over-ride	Sample/ Std ID	Time - printout	UO/U	196 cps	206 cps	U ppm	204Pb ppb	f206 %	Age ±1σ (Ma) 206/238 207/206	Corr.
	<u>sl.4-1</u>	<u>11:11</u>	<u>6.08</u>	<u>11.9</u>	<u>1476</u>	-	<u>2.0</u>	<u>.03</u>	-	<u>671</u> <u>208</u>
	<u>sl.4-2</u>	<u>11:29</u>	<u>6.14</u>	<u>11.5</u>	<u>1453</u>	<u>219</u>	<u>0.7</u>	<u>.03</u>	<u>568</u>	<u>575</u> <u>208</u>
	<u>u.c.1-1</u>	<u>11:47</u>	<u>6.01</u>	<u>11.7</u>	<u>42</u>	<u>30</u>	<u>1.1</u>	<u>2.4</u>	<u>130</u>	<u>204</u>
	<u>C.2-1</u>	<u>12:03</u>	<u>6.07</u>	<u>11.6</u>	<u>662</u>	<u>328</u>	<u>4.8</u>	<u>.92</u>	<u>181±1</u>	<u>"</u>
	<u>sl.4-3</u>	<u>12:20</u>	<u>6.09</u>	<u>11.4</u>	<u>1378</u>	<u>221</u>	<u>0.7</u>	<u>.10</u>	<u>554±1</u>	<u>598±26</u> <u>208</u>
	<u>C.3-1</u>	<u>12:37</u>	<u>5.91</u>	<u>11.8</u>	<u>189</u>	<u>139</u>	<u>2.0</u>	<u>1.72</u>	<u>131±1</u>	<u>"</u>
	<u>C.4-1</u>	<u>12:53</u>	<u>6.12</u>	<u>12.6</u>	<u>179</u>	<u>109</u>	<u>-0.2</u>	-	<u>135±1</u>	<u>371±76</u> -
	<u>C.5-1</u>	<u>13:09</u>	<u>6.04</u>	<u>11.7</u>	<u>1158</u>	<u>462</u>	<u>1.0</u>	<u>.10</u>	<u>229±1</u>	<u>227±68</u> <u>204</u>
	<u>sl.4-4</u>	<u>13:25</u>	<u>5.89</u>	<u>12.2</u>	<u>1554</u>	<u>244</u>	<u>1.3</u>	<u>.09</u>	<u>590±1</u>	<u>605±30</u> <u>"</u>
	<u>C.5-2</u>	<u>13:41</u>	<u>6.10</u>	<u>11.8</u>	<u>985</u>	<u>319</u>	<u>0.8</u>	<u>.11</u>	<u>270±1</u>	<u>291±39</u> <u>208</u>
	<u>C.6-1</u>	<u>13:58</u>	<u>5.84</u>	<u>12.0</u>	<u>40.7</u>	<u>243</u>	<u>0.5</u>	<u>1.19</u>	<u>165±2</u>	<u>943±409</u> <u>204</u>

10 has -ve spikes del scan 4A (del 5BM) del scans 4B  
 SEBM unstable alot feitel

\* power outage → cryo pump clunked + stage moved !!

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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) 206/238 207/206 Corr.

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	Corr.
	C.6-2	14:15	6.03	12.8	341	179	2.8	.61	160 ± 1	—	208
	sl.5-1	14:31	5.95	12.5	1521	231	5.0	.01	578 ± 1	696 ± 24	"
	C.6-3	14:49	6.13	12.7	39.0	18.5	1.5	4.19	163 ± 1	—	"
*	<del>C.7-1</del>	—	Data no good → spot "moved" during analysis								
	C.7-1	15:24	6.07	13.0	78.3	47.0	2.8	3.34	131 ± 1	—	<del>208</del>
	C.8-1	15:41	6.11	13.2	164	91.8	6.0	3.83	135 ± 1	—	"
	sl.5-2	15:57	6.13	13.3	1653	215	3.4	.05	576 ± 1	599 ± 24	"
	C.8-2	16:14	5.88	13.8	274	152	3.5	.80	153 ± 1	—	"
	C.9-1	16:30	5.95	13.9	110.	68.	0.4	.12	132 ± 1	271 ± 20	208
	C10-1	16:46	5.95	13.3	27	137	2.2	0.16	133 ± 1	0	208
	C11-1	17:04	5.88	14.3	88	43.	1.5	1.4	165 ± 1	0	208
	sl.5-3	17:21	6.05	14.	1630	214	0.7	.02	563	567	208
	C12-1	17:38	6.26	13.9	162	87	0.2	1.0	126 ± 1	62	208
	C12-2	17:55	5.91	14.4	180	105	1.3	.1	136	145	204
	C13-1	18:12	<del>5.82</del>	14.2	6707	242	0.7	.01	<del>2044 ± 5</del>	1758 ± 7	204
	C14-1	18:30	5.85	13.9	49.7	32	1.8	3.9	128 ± 1	0	208
	sl.4-5	18:47	6.07	14.0	1759	223	2.1	.03	580 ± 1	610 ± 23	208
del scan 1: 196	C22-1	19:09	5.91	12.5	247	160	-0.3	—	143	118	—
	C23-1	19:27	5.88	13.3	98	33	2.8	2.7	255 ± 1	0	208
	C24-1	19:44	5.82	12.9	68	42	1.6	1.9	151 ± 1	53	208
	C25-1	20:03	6.08	13.2	605	275	-0.4	.3	174	218	208
	sl.2-1	20:21	5.74	13.3	1582	250	1.9	0.13	586 ± 1	600	204
	C28-1	20:40	6.17	13.3	229	125	0.6	.3	138	129	204
	C29-1	20:57	5.98	<del>13.5</del>	345	206	0.1	.02	138	312	204
	C30-1	21:14	5.90	13.1	536	281	1.3	.3	165	170	204

WENT TO 97-35