

UWA DATA LOG: SHRIMP ZIRCON U-Pb

Date: *12/9/95* UWA Mount No.: *95-17* Whose sample?: *Chris Adams* Operator(s): *IF + AR*

Indicate any change to the following:

	196	204	bkg	206	207	208	238	248	254	
Precambrian	Count time (secs):	2 ✓	10 ✓	10 ✓	10 ✓	30 ✓	10 ✓	5 ✓	5 ✓	2 ✓
	Delay time (secs):	7 ✓	3 ✓	1 ✓	2 ✓	1 ✓	1 ✓	3 ✓	2 ✓	2 ✓
Phanerozoic	Count time (secs):	2	10	10	10	10	5	5	2	2
	Delay time (secs):	7	3	1	2	1	3	2	2	2

expected 196-204 = 8.170 amu expected 204-bkg = 0.040 amu Dead-time = *32* nanosecs
 actual 196-204 = *8.165* actual 204-bkg = *0.045* expected resolution = >4200
 Primary = *1.8* nA PESABM = *38* pA actual resolution = *4880*
 expected Primary : PESABM ≈ 50:1 actual Primary : PESABM = *47*

Comments: *a lot of very instability in early am.*

Rejection over-ride	Sample/ Std ID	Time - printout	UO/U <i>K cps</i>	196 cps	206 cps	U ppm	204Pb ppb	f ₂₀₆ %	Age ±1σ (Ma) 206/238 207/206	Corr.
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Occasional Periods of Variation in stage calibration. Restore all

6-2

Problem with stage

Computer Crashed

✓	<i>sl</i> <i>17.0-15</i>	<i>16:11</i>	<i>6.20</i>	<i>17</i>	<i>1634</i>	<i>-</i>	<i>9.6</i>	<i>0.8</i>	<i>-</i>	<i>635</i>	<i>208</i>
✓	<i>sl</i> <i>1.6</i>	<i>16:33</i>	<i>6.18</i>	<i>17</i>	<i>1608</i>	<i>222</i>	<i>28.</i>	<i>2.3</i>	<i>565</i>	<i>624</i>	<i>208</i>
✓	<i>u</i> <i>(A.6-1)</i>	<i>16:56</i>	<i>6.34</i>	<i>15.3</i>	<i>1024</i>	<i>304</i>	<i>41.</i>	<i>5.6</i>	<i>262</i>	<i>437</i>	<i>208</i>
	<i>Delcp (not ThO₂)</i> <i>u</i> <i>A.32</i>	<i>17:27</i>	<i>(7.6)</i>	<i>15.4</i>	<i>161</i>	<i>29</i>	<i>27.</i>	<i>?30</i>	<i>246</i>	<i>-</i>	<i>207</i>
	<i>u</i> <i>A.12</i>	<i>17:51</i>	<i>6.08</i>	<i>16.7</i>	<i>141</i>	<i>35</i>	<i>32.</i>	<i>?20</i>	<i>~260</i>	<i>-</i>	<i>208.</i>
✓	<i>sl</i> <i>17</i>	<i>18:13</i>	<i>6.44</i>	<i>15.</i>	<i>1543</i> <i>209</i>	<i>209</i>	<i>21.</i>	<i>1.6</i>	<i>562</i>	<i>594</i>	<i>208</i>
✓	<i>sl</i> <i>17.1-8</i>	<i>19:09</i>	<i>6.19</i>	<i>16.6</i>	<i>1660</i>	<i>223</i>	<i>13.</i>	<i>1.1</i>	<i>579</i>	<i>551</i>	<i>208</i>
	<i>sl</i> <i>1-9</i>	<i>-</i>	<i>1eA</i>	<i>post</i>	<i>ESA</i>	<i>invl</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>
	<i>u</i> <i>B.16-1</i>	<i>20:55</i>	<i>5.85</i>	<i>19.0</i>	<i>458</i>	<i>91</i>	<i>55.6</i>	<i>12.3</i>	<i>368</i>	<i>-</i>	<i>208</i>
✓	<i>sl</i> <i>2-6</i>	<i>21:21</i>	<i>6.13</i>	<i>17.4</i>	<i>1600</i>	<i>2209</i>	<i>32.9</i>	<i>2.8</i>	<i>551</i>	<i>621</i>	<i>208</i>
✓	<i>u</i> <i>B17-1</i>	<i>21:49</i>	<i>5.99</i>	<i>17.9</i>	<i>505</i>	<i>558</i>	<i>45.1</i>	<i>0.8</i>	<i>650</i>	<i>802</i>	<i>208</i>

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Rejection over-ride	Sample/ Std ID	Time - printout	UO/U E	196 cps L	206 cps	U ppm	204Pb ppb	f206 %	Age ±1σ (Ma) 206/238	207/206	Corr.
	CentreOne	23:01	-								
	after crash, checked if peaks centered.										
Delete last scan	51517.2-7	23:33	6.07	16.4	1508	std.	11.5	0.9	-	497	208
	4517.B18-1	00:44	6.24	17.3	1222	349	49.1	6.1	243	246	208
	4517.B15-2	00:25	6.04	16.4	1454	299	29.2	2.6	405	254	208
	4517.B15-3	00:50	6.12	17.1	1906	319	29.1	2.1	459	522	208
	51517.2-8	01:15	6.11	17.5	1555	208.7	16.8	1.5	561.8	547.6	208
	4517.B.19-1	01:42	5.62	18.6	614	251	30.0	5.7	229.7	520.1	208
	4517.B.20-1	02:11	5.84	18.9	1239	389	33.4	3.7	260.6	526.4	208
	4517.B.21-1	02:35	6.32	15.4	1290	364	17.0	1.9	255.6	288.7	204
	51517.2-9	03:00	6.21	15.9	1493	205	23.4	2.1	573	619	208
	4517.B.22-1	03:23	6.39	15.0	1097	969	25.8	3.3	830.5	844.4	208
	4517.B.23-1	03:48	6.77	15.8	4117	272	20.0	0.8	895.9	991.9	208
	4517.B.24-1	04:16	6.34	15.4	361	113	39.9	12.1	219.7	0?	208
	51517.2-10	04:38	6.41	15.6	1513	198.3	10.3	1.00	556.3	530	208
	4517.B.10-2	05:09	6.48	16.2	344	96	19.1	6.8	234	?	208
	4517.B.25-1	05:42	6.24	17.3	158	48	12.5	9.4	215	2260	208
	4517.B.26-1	06:12	6.24	17.5	604 87	87	14.0	3.6	487	588.6	208
	51517.2-11	06:35	6.20	16.9	1645	215.1	14.0	1.2	570	560	208
	4517.B.27-1	07:02	6.42	16.9	1872	480	13.5	9.0	240.5	?	208
Delete 204(1) 205(3)	4517.B.11-2	07:30	6.22	17.8	642	200	28.3	5.2	236	479	208
	4517.B.28-1	07:56	5.89	18.1	445	119.3	16.3	4.7	303.9	462.2	208
	51517.3-8	08:19	6.25	17.1	1711	216.4	19.5	1.7	566.5	518.9	208
	4517.B.29-1	08:43	6.21	16.5	783	232	27.3	3.8	255.1	?	208
	4517.B.26-2	09:07	6.20	17.0	1139	165	10.4	1.3	512.1	558.8	208
	4517.B.28-2	09:30	6.05	16.7	450	114	16.	4.6	315	430	208
	sl	3-9 09:53	6.06	17.9	1628	222	14.	1.2	559	614	208

Very irregular
data Vibrating stage?

(Del 204(1)
205(3))