

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

Date	UWA Mount No.	Whose sample?	Operator(s)
6/12/98	98-78	Bünger/Neal	IRF

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Indicate any change to the following:

	196	204	bkg	206	207	208	238	248	254	270
Precambrian	Count time (secs):	2 <sup>5</sup> 10	10	10/20*	30/10*	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 = .....32..... nanosecs  
 actual 196-204 = .....8.170.....      actual 204-bkg = .....0.043.....      expected resolution = >4200  
 actual 206-207 = .....1.000.....      actual 206-208 = .....2.000.....      actual resolution = .....5715.....

Primary = .....2.6① nA      PESABM = ..... pA      actual Primary : PESABM (= 50:1) = .....  
 Raster time (mins): .....1.....      Raster aperture (microns): .....120.....      No. of scans: .....4.....

Comments: N.B. @ using NO<sub>2</sub><sup>-</sup> 1°. O<sub>2</sub><sup>-</sup> is too weak to get good data with small apert. @ 70 µm aperture

① Data continued on 98-16 B.

Rejection over-ride	Sample/ Std ID	Time - printout	UO/U Kcps	196 cps	206 cps	U ppm	204Pb ppb	f <sub>206</sub> %	Age ±1σ (Ma)		Offsets OK?
									206/238	207/206	
last 10	C2.1-1	14:07	4.39	34	1796	-	7.0	.59	-	616	✓
1st 206	C2.1-2	14:19	4.32	34	1286	233	9.1	.71	588	542	✓
	A.5-1	14:34	5.42	24	3011	195	102.	7.8	551	2295	✓
3rd 206	A.7-1	14:48	4.23	35	828	36	1.5	.19	1868	1872	-
	A.9-1	15:02	5.59	21	2618	315	139.	9.3	408	1863	-
	A.10-1	15:15	5.23	25	3708	205	352.	15.	862	2000	✓
2nd 206	C2.2-1	15:28	4.24	34	1306	250	2.7	.26	634	476	✓

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

Date: 6/12/98 UWA Mount No.: 98-78 Whose sample?: Berger/Deal Operator(s): IRF

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

Precambrian Count time (secs): 2 2 10 10 10/20\* 30/10\* 10 2 5 2 5 1 2 1  
 Phanerozoic\* Delay time (secs): 8 8 3 1 2 1 1 1 3 2 2

expected 196-204 = 8.170 amu expected 204-bkg = 0.045 amu Dead-time = 32 nanosecs  
 actual 196-204 = 10.168 actual 204-bkg = 0.063 expected resolution = >4200  
 actual 206-207 = 1.0000 actual 206-208 = 2.000 actual resolution = 5715

Primary = 0.6 nA PESABM = ..... pA actual Primary: PESABM (= 50:1) = .....  
 Raster time (mins): 1 Raster aperture (microns): 120 No. of scans: 6 (4 on x & 2)

Comments: 70 μ aperture (1° too weak for 30 μ)  
+ Retardation

Rejection over-ride	Sample/ Std ID	Time - printout	UO/U Kcps	196 Kcps	206 cps	UO ppm Kcps	204Pb ppb	f206 %	Age ±1σ (Ma) 206/238	207/206	Offsets OK?
	<u>zT.3-2</u>	<u>11:05</u>	<u>11.0</u>	<u>56</u>	<u>45K</u>	<u>96</u>	<u>0.2</u>	<u>.01</u>	<u>5.25</u>	<u>26160</u>	✓
	<u>A10-1a</u>	<u>11:29</u>	<u>9.64</u>	<u>47</u>	<u>1904</u>	<u>7.8</u>	<u>0.2</u>	<u>.37</u>	<u>2.34</u>	<u>1627</u>	✓
	<u>A10-1b</u>	<u>11:46</u>	<u>9.27</u>	<u>46</u>	<u>1681</u>	<u>7.3</u>	<u>0.1</u>	<u>.18</u>	<u>2.13</u>	<u>1490(↑)</u>	✓
	<u>A10-1c</u>	<u>12:03</u>	<u>8.87</u>	<u>47</u>	<u>1688</u>	<u>7.7</u>	<u>0.1</u>	<u>.30</u>	<u>1.95</u>	<u>1664</u>	✓
	<u>A10-1d</u>	<u>12:18</u>	<u>9.06</u>	<u>47</u>	<u>1742</u>	<u>8.0</u>	<u>0.1</u>	<u>.16</u>	<u>1.98</u>	<u>1652</u>	✓
	<u>7-4</u>	<u>12:39</u>	<u>9.03</u>	<u>29</u>	<u>1018</u>	<u>5.2</u>	<u>1.6</u>	<u>5.0</u>	<u>1.77</u>	<u>1645</u>	-
	<u>7-5</u>	<u>12:18</u>	<u>9.46</u>	<u>41</u>	<u>1660</u>	<u>7.6</u>	<u>0.1</u>	<u>.15</u>	<u>2.07</u>	<u>1624</u>	✓
	<u>zT.2-3</u>	<u>13:10</u>	<u>11.35</u>	<u>47</u>	<u>77K</u>	<u>140</u>	<u>0.4</u>	<u>.02</u>	<u>6.27</u>	<u>26130</u>	✓
	<u>zT.4-1</u>	<u>13:24</u>	<u>11.72</u>	<u>45</u>	<u>129K</u>	<u>226</u>	<u>0.7</u>	<u>.02</u>	<u>6.71</u>	<u>2625</u>	✓
	<u>zT.5-1</u>	<u>13:32</u>	<u>11.25</u>	<u>51</u>	<u>64K</u>	<u>123</u>	<u>0.8</u>	<u>.04</u>	<u>5.85</u>	<u>26131</u>	✓