

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

Date: 6/4/98 UWA Mount No.: 98-09 Whose sample?: ?(Brazil) Operator(s): IRF + AR

Indicate any change to the following:

	196	204	bkg	206	207	208	238	248	254	
<b>Precambrian</b>	Count time (secs):	<u>2</u>	<u>10</u>	<u>10</u>	<u>20</u>	<u>30/10*</u>	<u>10</u>	<u>5</u>	<u>5</u>	<u>2</u>
<b>Phanerozoic*</b>	Delay time (secs):	<u>8</u>	<u>3</u>	<u>1</u>	<u>2</u>	<u>1</u>	<u>1</u>	<u>3</u>	<u>2</u>	<u>2</u>

expected 196-204 = 8.170 amu      expected 204-bkg = 0.040 amu      Dead-time = 32 nanosecs  
 actual 196-204 = 8.173      actual 204-bkg = 0.042      expected resolution = >4200  
 actual 206-207 = 1.001      actual 206-208 = 2.001      actual resolution = 5303

Primary = 2.5 nA    PESABM = 29 pA    actual Primary : PESABM (= 50:1) = 86  
 Raster time (mins): 1    Raster aperture (microns): 100    No. of scans: 5  
*Sensitivity = 1*

Comments:

Rejection over-ride	Sample/ Std ID	Time - printout	UO/U	196 k cps	206 cps	U ppm	204Pb ppb	f <sub>206</sub> %	Age ±1σ (Ma)	206/238	207/206	Corr.
	<u>sl. 4-1</u>	<u>11:35</u>	<u>6.72</u>	<u>9.5</u>	<u>875</u>	<u>-</u>	<u>0.5</u>	<u>.01</u>	<u>-</u>	<u>544</u>	<u>208</u>	
	<u>sl. 4-2</u>	<u>11:30</u>	<u>6.81</u>	<u>9.2</u>	<u>901</u>	<u>224</u>	<u>1.6</u>	<u>.03</u>	<u>575</u>	<u>555</u>	<u>208</u>	
	<u>u.c. 4-1</u>	<u>12:05</u>	<u>7.10</u>	<u>9.2</u>	<u>3480</u>	<u>435</u>	<u>970.</u>	<u>21.</u>	<u>7900</u>	<u>1502</u>	<u>204</u>	
	<u>C. 4-2</u>	<u>12:20</u>	<u>6.81</u>	<u>8.2</u>	<u>597</u>	<u>45</u>	<u>9.4</u>	<u>.93</u>	<u>1905</u>	<u>1832</u>	<u>204</u>	
	<u>C. 1-1</u>	<u>12:36</u>	<u>6.72</u>	<u>9.2</u>	<u>2027</u>	<u>144</u>	<u>3.6</u>	<u>.11</u>	<u>1887</u>	<u>1782</u>	<u>204</u>	
	<u>sl. 4-3</u>	<u>12:53</u>	<u>6.74</u>	<u>9.3</u>	<u>865</u>	<u>220</u>	<u>-ve</u>	<u>-</u>	<u>576</u>	<u>675</u>	<u>-</u>	
	<u>C. 2-1</u>	<u>13:08</u>	<u>7.16</u>	<u>8.7</u>	<u>4255</u>	<u>181</u>	<u>1107</u>	<u>19.</u>	<u>2179</u>	<u>1736</u>	<u>204</u>	
	<u>C. 6-1</u>	<u>13:29</u>	<u>6.74</u>	<u>9.2</u>	<u>1775</u>	<u>134</u>	<u>209</u>	<u>7.8</u>	<u>1810</u>	<u>1711</u>	<u>204</u>	
	<u>C. 8-1</u>	<u>13:52</u>	<u>6.75</u>	<u>9.3</u>	<u>1914</u>	<u>129</u>	<u>65</u>	<u>2.2</u>	<u>1891</u>	<u>1786</u>	<u>204</u>	
	<u>sl. 4-4</u>	<u>14:07</u>	<u>6.79</u>	<u>9.5</u>	<u>921</u>	<u>223</u>	<u>-ve</u>	<u>-</u>	<u>575</u>	<u>582</u>	<u>-</u>	
	<u>C. 10-1</u>	<u>14:22</u>	<u>7.27</u>	<u>8.7</u>	<u>3180</u>	<u>191</u>	<u>607</u>	<u>15.</u>	<u>1624</u>	<u>1694</u>	<u>204</u>	

*all rejection over-ride are for age point calculation*

*PD. 1. N. none linear*

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Rejection over-ride	Sample/ Std ID	Time - printout	UO/U k cps	196 cps	206 cps	U ppm	204Pb ppb	f206 %	Age ±1σ (Ma) 206/238	207/206	Corr.
	C11-1	14:38	6.67	10.5	4758	385	2712	43.1	90.7	1161	204
last scan	C12-1	14:53	7.02	8.8	2648	164	190	4.9	1874	1876	204
	S1.4-5	15:09	6.77	9.8	936	218	0.8	.06	584	526	208
	C14-1	15:26	6.58	11.4	1831	323	509	22.	564	1281	204
	C37-1	15:43	6.64	9.4	1500	109	8.1	.34	1867	1797	204
P.D. 2 2 scans (at 1P)	C16-1	16:03	7.17	8.9	6574	300	1231	14.0	2112	1792	204
	S1.4-6	16:27	6.55	8.7	790	233	1.1	.04	575	642	208
last scan	C17-1	16: <sup>54</sup> <del>27</del>	6.76	10.6	4137	467	1720	31.	770	1893	204
	C20-1	17:00	6.52	9.1	786	614	8.6	.62	1882	1850	204
	C38-1	17:17	6.76	9.6	2341	158	305	8.7	1733	1889	204
	S1.4-7	17:33	6.94	7.2	765	220	5.0	.41	591	473	208
	C18-1	17:49	6.46	9.3	1520	118	154	5.7	1836	1807	204
	C39-1	18:10	6.98	9.1	1993	117	354	12.	1823	1787	204
	C30-1	18:28	6.65	9.7	1904	128	268	9.3	1784	1597	204
	S1.4-8	18:45	6.89	9.6	942	213	—	—	587	542	—
P.D. 3	C40-1	19:02	6.74	4.1	2162	154	11	.31	1881	1774	204
	C41-1	19:24	6.93	4.3	2089	154	321	8.4	1922	1861	204
last scan	C42-1	19:40	6.81	8.9	1810	129	38	1.3	1843	1857	204
	S1.3-1	19:55	6.87	9.4	899	210	—	.01	584	660	208
last scan	C43-1	20:13	6.61	9.4	3258	252	603	11.7	1607	1592	204
	C44-1	20:32	6.31	8.8	459	39	6.1	.68	1925	1754	204
	C45-1	20:48	6.62	9.5	2740	165	800	18.9	1812	1679	204
	S1.3-2	21:04	6.81	9.6	890	210	3.3	.30	583	569	208
	C46-1	21:24	6.34	9.5	1339	98	13.9	.66	1826	1784	204
	C47-1	21:51	6.53	10.3	2330	169	178	4.9	1721	1847	204

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Rejection over-ride	Sample/ Std ID	Time - printout	UO/U k cps	196 cps	206 cps	U ppm	204Pb ppb	f206 %	Age ±1σ (Ma) 206/238 207/206	Corr.
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<u>P.D. 4</u>	<i>12x sum</i>	C-48-1	22:08	7.28	8.5	5589	215	22281	30.1	2056	1739	204
		S1.3-3	22:26	6.60	9.8	881	220	2.6	.07	588	640	208
	<i>12x2 sum</i>	B.1-1	22:47	6.88	9.1	790	54	2.1	.18	1829	1773	204
		B.2-1	23:03	7.22	8.3	3330	513	2.5	.55	844	1553	204
		B.3-1	23:17	6.37	8.1	556	51	2.6	.22	1941	1821	204
		S1.3-4	23:38	6.93	8.5	890	214	1.0	.03	604	463	208
		B.4-1	23:53	6.70	9.4	1487	106	1.7	.07	1852	1811	204
		B.5-1	00:16	6.82	7.9	640	50	0.7	.07	1890	1800	204
	<i>low scan</i>	B.6-1	00:31	6.65	9.4	539	38	1.5	.17	1928	1864	204
		S1.3-5	00:46	6.67	8.9	900	232	-	-	607	549	-
<u>P.D. 5</u>		B.7-1	1:02	6.77	9.5	1910	129	1.4	.05	1877	1793	204
		B.8-1	1:30	6.73	9.4	892	63	3.1	.23	1839	1759	204
		B.9-1	1:48	6.77	9.8	418	29	3.0	.51	1794	1782	204
		B.10-1	2:03	6.97	8.0	601	43	1.7	.17	1912	1757	204
		S1.1-1	2:20	6.68	9.7	915	219	-ve	.10	590	518	208
		B.11-1	2:35	6.51	8.9	1285	105	5.1	.22	1860	1813	204
		B.12-1	2:50	6.72	9.5	1241	86	2.2	.12	1860	1815	204
		B.13-1	3:04	6.73	8.7	2087	158	2.7	.08	1864	1822	204
		B.14-1	3:19	7.00	8.5	814	56	1.5	.12	1859	1771	204
		S1.1-2	3:33	6.63	9.4	902	228	2.6	.20	597	499	204
<u>P.D. 6</u>		B.15-1	3:48	6.70	9.5	590	41	2.5	.27	1886	1783	204
		B.16-1	4:06	6.73	9.5	405	28	0.8	.13	1888	1857	204
		B.17-1	4:22	6.78	9.3	1465	101	1.3	.06	1867	1791	204
		B.18-1	4:36	6.53	9.1	647	47	2.2	.20	2008	1743	204
		S1.1-3	4:50	6.52	9.7	881	232	-ve	-	590	549	-

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3 pages

