

UWA DATA LOG: SHRIMP ZIRCON U-Pb

Date: 28/04/97 UWA Mount No.: 97-07 Whose sample?: J. M. Operator(s): IRF/JD

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~~ 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 = 0.040 amu Dead-time = 32 nanosecs

* { actual 196-204 = 8.145 actual 204-bkg = 0.040 expected resolution = >4200
 actual 206-207 = 0.998 actual 206-208 = 1.995 actual resolution = 5237

Primary = 2.3 nA PESABM = 35 pA actual Primary : PESABM (= 50:1) = 65

Raster time (mins): 20 Raster aperture (microns): 100 No. of scans: 6

Comments: printer time is incorrect (date is correct)

* Unusual offsets due to poor mass/field calibration (inherited with new table - it would have been better to correct the calibration)

Rejection over-ride	Sample/ Std ID	Time - printout	UO/U	196 Kcps	206 cps	U ppm	204Pb ppb	f ₂₀₆ %	Age ±1σ (Ma) 206/238	207/206	Corr.
---------------------	----------------	-----------------	------	----------	---------	-------	-----------	--------------------	----------------------	---------	-------

	<u>Sl. 2-1</u>	<u>23:31</u>	<u>6.38</u>	<u>15.9</u>	<u>1528</u>		<u>-ve</u>	<u>.02</u>		<u>544 ± 20</u>	<u>208</u>
	<u>Sl. 2-2</u>	<u>00:04</u>	<u>6.37</u>	<u>15.7</u>	<u>1542</u>	<u>228</u>	<u>-ve</u>	<u>-</u>	<u>569 ± 1</u>	<u>553 ± 19</u>	<u>none</u>
	<u>C. 1-1</u>	<u>00:41</u>	<u>6.21</u>	<u>17.0</u>	<u>1529</u>	<u>53</u>	<u>0.4</u>	<u>.03</u>	<u>2127</u>	<u>2663</u>	<u>204</u>
	<u>C. 2-1</u>	<u>01:02</u>	<u>8.27</u>	<u>10.2</u>	<u>41K</u>	<u>1K</u>	<u>490.</u>	<u>1.8</u>	<u>1997</u>	<u>2052</u>	<u>204</u>
	<u>Sl. 2-3</u>	<u>01:38</u>	<u>6.45</u>	<u>15.6</u>	<u>1528</u>	<u>221</u>	<u>0.1</u>	<u>.06</u>	<u>562</u>	<u>564</u>	<u>208</u>
	<u>C. 3-1</u>	<u>01:57</u>	<u>8.08</u>	<u>11.0</u>	<u>90K</u>	<u>13K</u>	<u>1193.</u>	<u>1.8</u>	<u>3293</u>	<u>2608</u>	<u>204</u>
	<u>C. 4-1</u>	<u>02:24</u>	<u>6.57</u>	<u>15.2</u>	<u>1820</u>	<u>39</u>	<u>4.2</u>	<u>.25</u>	<u>2147</u>	<u>2512</u>	<u>204</u>
	<u>C. 5-1</u>	<u>02:42</u>	<u>6.75</u>	<u>14.8</u>	<u>2670</u>	<u>74</u>	<u>14.</u>	<u>.58</u>	<u>2320</u>	<u>2679</u>	<u>204</u>
	<u>C. 6-1</u>	<u>03:00</u>	<u>7.83</u>	<u>13.9</u>	<u>13K</u>	<u>388</u>	<u>183.</u>	<u>2.5</u>	<u>1551</u>	<u>1982</u>	<u>204</u>
	<u>Sl. 2-4</u>	<u>03:19</u>	<u>6.60</u>	<u>14.6</u>	<u>1463</u>	<u>211</u>	<u>1.1</u>	<u>.03</u>	<u>553</u>	<u>630</u>	<u>208</u>
<u>(scan</u>	<u>C. 7-1</u>	<u>0:37</u>	<u>6.47</u>	<u>12.2</u>	<u>4K</u>	<u>148</u>	<u>22.</u>	<u>.53</u>	<u>2136</u>	<u>2500</u>	<u>204</u>

Labels require correction in file

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.

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.
<i>lost scan</i>	C. 8-1	03:56	7.29	12.6	221K	585	526	3.1	2212 2267	204
	C. 9-1	04:15	6.75	14.7	291K	686	1.3	.01	2637 2664	204
	C. 10-1	04:37	6.63	14.6	238	28	0.6	.35	673 768	204
	C. 11-1	04:57	7.29	13.9	21K	401	59.	.37	2810 2620	204
	<i>sl 2-5</i>	<i>05:15</i>	<i>6.40</i>	<i>15.3</i>	<i>1453</i>	<i>216</i>	<i>-ve</i>	<i>-</i>	<i>570 571</i>	<i>-</i>
	C. 12-1	05:35	6.65	15.1	3.51K	91	50.	1.6	2450 2660	204
<i>1st scan</i>	C. 13-1	5:55	5.69	15.9	4K	176	192.	3.1	2458 2641	204
	C. 14-1	6:13	6.66	14.6	9.9K	224	44.2	.48	2679 2661	204
<i>really low 196? high U, Th, Pb</i>	C. 15-1	6:32	7.37	0.9	42.2 ^K	1464	491.	1.1	2333 2333	204
	C. 16-1	6:52	6.70	13.9	1328	36	-ve	-	2573 2641	-
	<i>sl 2-6</i>	<i>7:12</i>	<i>6.46</i>	<i>14.6</i>	<i>1436</i>	<i>213</i>	<i>0.8</i>	<i>.07</i>	<i>584 511</i>	<i>204</i>
	C. 17-1	7:40	7.05	13.7	8526	211	174	2.5	2403 2585	204
	C. 18-1	8:10	6.54	13.8	1064	31	0.4	.04	2574 2662	204
	C. 19-1	8:28	7.24	13.6	369	43	1.1	.47	567 750	204
	C. 19-2	8:48	6.74	13.6	1202	136	0.4	.04	713 688	204
	C. 20-1	9:38	6.54	14.0	626	60	1.1	.22	880 558	204
	<i>sl 1-1</i>	<i>9:18</i>	<i>6.52</i>	<i>13.5</i>	<i>1393</i>	<i>224</i>	<i>-ve</i>	<i>.02</i>	<i>565 545</i>	<i>204</i>
	C. 20-2	9:58	6.42	13.7	795	65	0.5	.06	1097 1181	204
	D. 1-1	10:23	6.69	14.1	4464	117	0.0	.00	2608 2667	-
	D. 2-1	10:54	6.60	12.2	2129	68	0.5	.02	2565 2662	204
	<i>sl 1-2</i>	<i>11:18</i>	<i>6.74</i>	<i>13.4</i>	<i>1429</i>	<i>210</i>	<i>-ve</i>	<i>-</i>	<i>564 585</i>	<i>-</i>
	D. 3-1	11:44	6.49	13.5	3364	99	0.8	.02	2646 2651	204
	D. 3-2	12:03	6.30	14.5	4333	132	1.1	.02	2613 2662	204
	D. 4-1	12:23	6.61	13.9	4743	129	1.1	.02	2628 2667	204
	D. 5-1	12:43	6.99	12.2	3183	83	1.5	.05	2646 2673	204

Mount/sample No: 97-07

Date: 29/04/97

Page No: 3

Rejection over-ride	Sample/ Std ID	Time - printout	UO/U	196 cps	206 cps	U ppm	²⁰⁴ Pb ppb	f ₂₀₆ %	Age ±1σ (Ma)		Corr.
									206/238	207/206	

	sl. 1-3	13:05	6.69	13.3	1390	211	0.5	.05	562	610	204
	D. 6-1	13:27	6.28	14.3	3373	104	0.8	.02	2627	2661	204
slight drop in 1° noticed v 2	D. 6-2	13:45	6.18	14.2	3027	101	0.5	.01	2608	2674	204
	D. 7-1	14:05	7.83	11.6	3727	76	0.2	.001	2603	2660	204
	D. 7-2	14:26	7.42	11.9	2987	69	-	-	2616	2659	-
	sl. 1-4	14:46	6.82	13.2	1407	203	-	-	563	583	-
	D. 8-1	15:05	6.99	12.6	4052	105	0.6	.02	2599	2675	204
tried to get core, but ended up with rim too.	D. 8-2	15:27	7.12	12.4	2948	79	1.4	.05	2457	2668	204
1° back up - increased gradually till here back to previous value	D. 9-1	15:46	6.66	13.2	2392	65	-	-	2692	2661	-
	D. 10-1	16:07	6.53	14.9	2688	73	5.5	.21	2577	2672	204
	D. 10-2	16:24	6.56	14.4	2906	76	0.9	.03	2687	2674	204
	sl. 1-5	16:46	6.50	15.2	1492	215	0.6	.06	565	647	204
	D. 11-1	17:07	6.79	14.7	3862	94	1.0	.03	2577	2668	204
	D. 12-1	17:31	6.49	15.3	4478	117	0.2	.001	2643	2684	204
	D. 13-1	17:49	6.93	13.3	2848	71	-	-	2592	2663	-
	D. 13-2	18:08	7.21	13.4	1799	40	0.7	.05	2621	2639	204
	D. 14-1	18:28	6.77	13.4	3826	100	0.7	.02	2642	2709	204
	D. 14-2	18:46	6.74	13.8	4253	111	0.2	-	2610	2662	204
	sl. 1-6	19:05	6.72	13.0	1397	214	0.8	.07	565	566	204
	D. 14-3	19:25	6.70	13.1	3039	83	0.8	.03	2678	2676	204
	D. 15-1	19:47	6.94	13.0	4125	103	-	-	2654	2650	-
	D. 16-1	20:08	6.78	13.8	4172	107	0.8	.02	2627	2668	204
	D. 17-1	20:30	6.61	14.7	2772	71	-ve	-	2650	2676	-
	D. 17-2	20:48	6.39	14.5	5427	151	0.6	.01	2596	2677	204
	sl. 3-1	21:06	6.69	12.8	1349	211	-ve	-	565	561	-