

UWA DATA LOG: SHRIMP ZIRCON U-Pb

Date: 8/5/98 UWA Mount No.: 98-15 Whose sample?: YQ Operator(s): McN + YQ

Indicate any change to the following:

	196	204	bkg	206	207	208	238	248	254	
Precambrian	Count time (secs):	2	10	10	10	²⁵ 30/10	10	5	5	2
Phanerozoic*	Delay time (secs):	<u>8</u>	3	1	2	1	1	3	2	2

expected 196-204 = 8.170 amu expected 204-bkg = 0.040⁵ amu Dead-time = 32 nanosecs

actual 196-204 = 8.166 actual 204-bkg = 0.045 expected resolution = >4200

actual 206-207 = 1.001 actual 206-208 = 2.001 actual resolution = 5303

Primary = 3.3 nA PESABM = 38 pA actual Primary : PESABM (≈ 50:1) = 87

Raster time (mins): 1 Raster aperture (microns): 100 No. of scans: 6

Comments: A = KH-40
C = KH-21

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	Age ±1σ (Ma) 207/206	196-204 Corr.	206-207
	<u>sl. 3-10</u>	<u>10:23</u>	<u>7.02</u>	<u>12.5</u>	<u>1461</u>	<u>220</u>	<u>1.0</u>	<u>.08</u>	<u>572 ± 1</u>	<u>548 ± 40</u>	<u>8.166</u>	<u>1.001</u>
	<u>sl. 3-11</u>	<u>10:40</u>	<u>7.15</u>	<u>12.1</u>	<u>1410</u>	<u>212</u>	<u>-0.6</u>	<u>/</u>	<u>566 ± 1</u>	<u>546 ± 21</u>	<u>8.166</u>	<u>1.001</u>
	<u>A. 1-1</u>	<u>10:58</u>	<u>7.24</u>	<u>11.9</u>	<u>1992</u>	<u>56.9</u>	<u>6.1</u>	<u>.29</u>	<u>2495 ± 11</u>	<u>3052 ± 9</u>	-	-
	<u>A. 2-1</u>	<u>11:14</u>	<u>7.54</u>	<u>12.0</u>	<u>4.6K</u>	<u>117</u>	<u>1.8</u>	<u>.04</u>	<u>2476 ± 7</u>	<u>2702 ± 6</u>	-	-
	<u>sl. 3-12</u>	<u>11:30</u>	<u>6.82</u>	<u>12.9</u>	<u>1411</u>	<u>223</u>	<u>0.7</u>	<u>.02</u>	<u>578 ± 1</u>	<u>517 ± 22</u>	-	-
	<u>A. 3-1</u>	<u>11:46</u>	<u>6.85</u>	<u>13.1</u>	<u>2641</u>	<u>66.7</u>	<u>0.0</u>	<u>/</u>	<u>2911 ± 12</u>	<u>2957 ± 7</u>	-	-
	<u>A. 6-1</u>	<u>12:02</u>	<u>6.41</u>	<u>13.4</u>	<u>2070</u>	<u>66.4</u>	<u>-1.6</u>	<u>/</u>	<u>2766 ± 12</u>	<u>3083 ± 8</u>	-	-
	<u>A. 7-1</u>	<u>12:19</u>	<u>7.59</u>	<u>11.3</u>	<u>1798</u>	<u>57.0</u>	<u>2.6</u>	<u>.16</u>	<u>2135 ± 9</u>	<u>2607 ± 11</u>	-	-
	<u>sl. 3-13</u>	<u>12:36</u>	<u>6.66</u>	<u>13.8</u>	<u>1466</u>	<u>225</u>	<u>-0.2</u>	<u>.02</u>	<u>593 ± 1</u>	<u>579 ± 22</u>	-	-
	<u>sl. 3-14</u>	<u>12:52</u>	<u>6.62</u>	<u>13.6</u>	<u>1418</u>	<u>226</u>	<u>-1.7</u>	<u>/</u>	<u>591 ± 1</u>	<u>552 ± 21</u>	-	-
	<u>A. 8-1</u>	<u>13:09</u>	<u>6.29</u>	<u>14.4</u>	<u>3.3K</u>	<u>118</u>	<u>1.1</u>	<u>.03</u>	<u>2515 ± 8</u>	<u>2679 ± 7</u>	-	-

Rejection over-ride	Sample/ Std ID	Time - printout	UO/U Kcps	196 cps	206 cps	U ppm	204Pb ppb	f206 %	Age ±1σ (Ma) 206/238 207/206	196-204 Corr. 206-207
	A. 9-1	13:27	7.33	12.8	6.2K	250	5.4	.11	1683±3 2142±6	8.166 1.001
	A. 10-1	13:44	8.12	11.2	6.6K	220	2.5	.05	1759±4 2287±6	- u -
	sl. 6-1	14:00	6.63	14.0	1449	223	-0.3	.08	591±1 580±22	- " -
	A. 5-1	14:18	6.7	13.8	5102	199	5.7	.1	2049±5 239±6	"
	A. 10A-1	14:33	6.85	13.3	3174	124.2	12.8	.4	1982±6 242±9	"
	A11-1	14:56	5.47	12.6	906	47.	2.7	.12	3040±20 2903±15	"
	A12-1	15:03	7.2	13.3	3945	108	471	13.8	2230±1 1954±13	"
	A12A-1	15:31	6.92	13.3	4620	176	16.2	.4	1982±5 2657±7	"
	sl. 6-2	15:48	6.75	12.7	1424	219	1.1	.09	617±1 490±34	"
	A12B-1	16:06	6.07	11.8	363	25	-0.2	✓	1860±14 1932±27	"
	A13-1	16:23	6.9	10.8	3070	122	1.5	.04	1705±5 2338±8	"
	A14-1	16:39	6.7	13.8	3319	173	3.9	.4	1592±4 2245±9	"
	A18-1	18:57	6.75	13.	1620	47	2.6	.14	2730±13 2317±11	"
	sl. 6-3	17:20	6.82	13.	1371	214	1.0	.03	578±1 572±22	"
	A14-1	17:40	6.57	14.2	6039	315	46	.07	1635±3 2188±6	"
	A25-1	18:04	7.0	12.8	2411	57	-1.7	.4	2971±13 3134±8	"
	A25A-1	18:21	8.47	10.3	3441	77	0.8	.03	2425±9 2683±7	"
	A26-1	18:38	6.87	12.7	2919	76	0.8	.03	2883±11 2871±7	"
	A21-1	18:56	6.77	11.9	2701	102	0.3	.01	2347±8 2602±8	"
	sl. 6-4	19:15	6.81	11.1	1198	218	1.2	.02	588±1 576±24	"
	A21A-1	19:34	6.5	12. 140	2902	140	7.5	0.2	2576±6 2516±9	"
	A20-1	19:55	6.73	14.4	5708	159	0.	.4	2576±7 2704±6	"
	A16-1	20:16	6.12	15.8	3908	149	5.6	.1	2361±7 2589±	"
	A17-1	20:34	6.98	12.9	2628	89	6.	2	2194±8 2567±9	"
	sl. 6-5	20:51	6.66	13.5	1349	223	-0.6	.05	565 610	"

Delete

PD2

PD3

206.7.

196 206

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.

206 7.8 38.54	A15-1	21:09	6.22	17.4	3639	190	2.1	.06	1576±3	2171±8	204
196 238.448	A24-1	21:28	6.49	13.6	2736	91	1.	.03	2574±9	2746±8	204
196 206.7 38.56	A23-1	21:45	7.17	13.2	3199	97	1.7	.06	2225±7	2617±8	204
PD3 196 206 208	S16-6	22:06	6.97	12.6	1484	215	1.1	.09	598±1	552±3x	204
C=KH21 196 208	C14-1	22:23	6.82	14.3	3395	83	0.8	.02	2825±10	2875±6	204
196 207 208 254	C13-1	22:40	7.	11.3	2950	73	0.2	.006	3151±13	2946±7	204
206.7 238	C12-1	23:02	5.68	11.7	1546	107	-0.6	.9	2248±10	2731±10	204
196 206.7	C9-1	23:19	4.85	10.3	559	55	7.3	.27	3187±27	2987±21	204
196 206.7.8 38.48.52	C10-1	23:35	6.46	13.1	2679	90	1.9	.06	2661±10	2771±8	204
196 206	S16-7	23:53	6.75	13.7	1446	220	-0.5	.05	582±1	506±23	208
196 208 208	C8-1	0:13	6.79	14.8	2443	90	6.8	.3	1953±6	2456±11	204
196 206.7.8.38.44	C6-1	0:30	5.47	11.9	1287	71	0.7	.02	3039±17	2915±12	204
196 206.7. 48	C6-2	0:46	5.26	11.5	939	64	3.7	.13	2947±18	2916±13	204
196 206 All	C3-1	1:04	6.38	14.	3126	94	4.3	.1	2852±10	3083±7	204
196 206. 208	C16-1	1:20	6.41	13.5	799	21	4.1	.4	3194±24	3203±13	204
196 207 254	S16-8	1:43	6.96	11.2	1311	214	-0.2	.009	606	635	208
196 206.7. 38.48	C2-1	2:02	6.13	11.4	2194	90	-0.1	.03	2905±12	2967±9	208
196 206.7.8 8x	C2a-1	2:21	6.59	12.9	589	18.	0.9	.13	2739±22	2758±8	204
196	C9-2	2:40	5.11	11.3	565	41	-3.9	✓	3163±26	3024±15	—
196 208. 38.5	C15-1	2:58	6.94	12.6	1707	155	2.4	.13	2379±11	2873±14	204
196 206	S16-9	3:43	6.68	11.9	1257	224	-0.3	—	591	5-11	208
196 206 238	C17-1	4:00	7.07	11.4	3159	78	0.	.001	3067±12	2912±6	204
196	C18-1	4:16	6.72	12.	1489	49.	1.	.6	2606	2750±12	208
196 206.7	C19-1	4:31	6.77	12.	1938	51	-2.6	✓	3114±14	2958±8	204
196 206 7	C22-1	4:48	6.89	11.6	3237	81	1	.03	3191±12	3147±6	204

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.
	C21-1	5:04	6.87	12.1	2377	69	1.8	.08	2428±13	3012±8	204
	S17-1	5:25	6.44	12.6	1206	233	1.3	.1	573	511	204
	C22-1	5:43	6.72	13.	1403	37	1.4	.09	2957±16	2904±11	204
	C23-1	6:01	6.36	12.7	2246	70	0.2	.006	3025±13	2884±8	204
	C24-1	6:18	6.30	10.2	1100	43	-2.3	✓	3066±19	3003±11	✓
	C25-1	6:34	6.91	11.4	2910	69	1.1	.02	3354±14	3229±6	204
	C26-1	6:52	6.88	11.9	3052	84	0.7	.02	2891±11	2642±7	204
	C27-1	7:08	6.97	11.4	2296	81	2.6	-.1	2376±9	2379±10	204
	S17-2	7:23	6.89	12.4	1441	222	-1.8	✓	594	577	✓

$Zr/U = 2.21483$
 $UO/U = 6.79920$
 $Pb^*/U = 0.240594$ $n = 16$ $1\text{std} : 2\%$