

UWA DATA LOG: SHRIMP ZIRCON U-Pb

Date: 20/10/96 UWA Mount No.: 95-10 Whose sample?: YUMIN Operator(s): MCN + YUMIN

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): 7 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 = 8.169 actual 204-bkg = 0.040 expected resolution = >4200

actual 206-207 = 0.998 actual 206-208 = 1.997 actual resolution = 4980

Primary = 2.6 nA PESABM = 42 pA actual Primary : PESABM (≈ 50:1) = 61.9

Raster time (mins): 2 Raster aperture (microns): 100 No. of scans: 6

Comments:
95-10A = YQ21

Rejection over-ride	Sample/ Std ID	Time - printout	UO/U	196 cps (K)	206 cps	U ppm	204Pb ppb	f ₂₀₆ %	Age ±1σ (Ma)		Corr.
									206/238	207/206	
<u>206 254</u>	<u>sl. 4-1</u>	<u>10:32</u>	<u>6.64</u>	<u>14.9</u>	<u>1466</u>	<u>220</u>	<u>1.5</u>	<u>.02</u>	<u>572 ± 1</u>	<u>543 ± 21</u>	<u>208</u>
<u>254 227</u>	<u>sl. 4-2</u>	<u>10:51</u>	<u>6.64</u>	<u>15.7</u>	<u>1642</u>	<u>234</u>	<u>2.0</u>	<u>.14</u>	<u>572 ± 1</u>	<u>547 ± 20</u>	<u>208</u>
<u>227</u>	<u>A. 21-4</u>	<u>11:12</u>	<u>7.33</u>	<u>14.2</u>	<u>168K</u>	<u>366</u>	<u>11.8</u>	<u>.09</u>	<u>2642 ± 4</u>	<u>2636 ± 3</u>	<u>204</u>
<u>206</u>	<u>sl. 4-3</u>	<u>11:31</u>	<u>6.83</u>	<u>14.9</u>	<u>1651</u>	<u>229</u>	<u>0.7</u>	<u>.03</u>	<u>572 ± 1</u>	<u>580 ± 19</u>	<u>208</u>
<u>238</u>	<u>A. 21-5</u>	<u>11:50</u>	<u>7.13</u>	<u>13.8</u>	<u>9.9K</u>	<u>232</u>	<u>19.1</u>	<u>.22</u>	<u>2697 ± 5</u>	<u>2668 ± 4</u>	<u>204</u>
✓	<u>A. 21-6</u>	<u>12:09</u>	<u>7.22</u>	<u>14.8</u>	<u>11.7K</u>	<u>260</u>	<u>9.1</u>	<u>.10</u>	<u>2578 ± 4</u>	<u>2644 ± 4</u>	<u>204</u>
<u>206</u>	<u>sl. 4-4</u>	<u>12:27</u>	<u>6.91</u>	<u>14.8</u>	<u>1665</u>	<u>226</u>	<u>2.5</u>	<u>.06</u>	<u>569 ± 1</u>	<u>574 ± 20</u>	<u>208</u>
<u>196</u>	<u>A. 18-2</u>	<u>12:47</u>	<u>7.84</u>	<u>14.6</u>	<u>5.6K</u>	<u>242</u>	<u>90.1</u>	<u>2.49</u>	<u>1175 ± 2</u>	<u>2648 ± 10</u>	<u>204</u>
<u>238 224 48 510</u>	<u>A. 18-3</u>	<u>13:06</u>	<u>8.10</u>	<u>13.0</u>	<u>6.6K</u>	<u>459</u>	<u>238</u>	<u>5.39</u>	<u>761 ± 1</u>	<u>2626 ± 14</u>	<u>204</u>
<u>196 238</u>	<u>A. 22-2</u>	<u>13:26</u>	<u>7.76</u>	<u>13.7</u>	<u>6.2K</u>	<u>243</u>	<u>64.4</u>	<u>1.44</u>	<u>1430 ± 3</u>	<u>2653 ± 8</u>	<u>204</u>
✓	<u>sl. 4-5</u>	<u>13:44</u>	<u>7.01</u>	<u>14.8</u>	<u>1705</u>	<u>222</u>	<u>1.5</u>	<u>.03</u>	<u>565 ± 1</u>	<u>580 ± 19</u>	<u>208</u>

Rejection over-ride	Sample/Std ID	Time - printout	UO/U	196 cps (K)	206 cps	U ppm	204Pb ppb	f206 %	Age ±1σ (Ma) 206/238	207/206	Corr.
	A22-3			204	too high	→	aborted				
206.7.8 238	A.30-1	14:10	8.49	13.5	5.8K	330	212	6.31	787±2	2686±15	204
	A.7-2			204	too high	→	aborted				
204 208 238 206 208	A.11-2	14:50	6.92	15.5	5.5K	129	3.9	.08	2624±7	2637±5	204
	A.11-3	15:07	6.96	14.8	5.7K	140	3.7	.07	2609±6	2635±5	204
238 206	sl. 4-6	15:28	6.87	15.2	1699	225	0.2	.003	576±1	521±19	208
206.7.8	A.8-2	15:46	7.04	15.2	5.3K	146	16.8	.38	2260±5	2625±6	204
✓	A.8-3	16:04	6.93	15.5	5.3K	146	16.3	.36	2284±5	2619±6	204
204	A.12-2	16:23	7.47	14.7	9.1K	217	32.0	.48	2269±4	2622±5	204
196 254	sl. 4-7	16:42	6.75	15.6	1633	228	5.2	.22	561±1	586±20	208
238 208	A.5-2	17:00	6.83	15.4	5.1K	128	5.7	.12	2601±7	2633±6	204 ✓
204 206 208	A.6-2	17:19	7.37	14.7	6.1K	169	25.2	.54	2067±4	2647±6	204
254	A.6-3	17:48	7.27	15.6	5.0K	138	28.2	.75	2024±5	2653±7	204
196 206 208	A.14-3	18:08	6.84	15.0	6.7K	185	11.5	.19	2439±5	2634±5	204
196 206 208	sl. 4-8	18:27	6.86	14.8	1609	224	0.7	.07	565±1	559±20	208
204	A.15-3	18:45	6.85	15.1	5.3K	136	4.0	.08	2584±6	2646±5	204
206 208	A.15-4	19:04	6.98	14.2	5.2K	144	58.5	1.22	2403±6	2637±8	204
207	A.17-2	19:23	7.20	14.8	5.5K	177	37.7	.85	1900±4	2635±7	204
✓	sl. 4-9	19:41	6.97	14.3	1585	217	0.5	.005	566±1	545±20	208
196 206 208 238 48 50 208	sl. 2-1	20:15	6.98	10.1K	1126	231	5.8	.51	539±1	561±25	208
196 206	sl. 2-2	20:35	6.99	14.1	1561	223	2.6	.09	548±1	541±20	208
206 208 238 206 208	A.19-2	21:02	7.27	13.5	8082	266	57.6	.83	1970	2643	204
196 206 208 238 48 50	16-2	21:21	9.53	10.7	11.4K	516	452.5	7.3	915	2596	204
206 207 208 238 48 50	9-3	21:48	7.07	13.9	5.5K	140	30.9	.62	2566	2636±7	204
208 204	9-4	22:06	8.07	12.4	5.9K	383	35.1	8.3	842	2634	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.
27 238	S12-3	22:16	6.92	13.3	1467	220	1.7	0.11 0.09	567 532	208
26.7 38	A 4-2	22:50	8.15	12.9	694	170	44.1	.97	2014 2619	206
27.8 250	25-4	23:24	6.98	14.5	5320	142	10.4	.22	2446 2615±6	204
206 27 208	25-5	23:39	7.13	13.4	6605	189	25.7	.42	2354 2639±6	204
196 238 248	25-6									
26	S12-4	0:20	7.26 6.89	12.9	1546	213	1.8	.109	558 520	208
26.7.8.28	A 25-7	0:40	6.89	15.2	5613	161	35.5	.71	2288 2627	204
26.7.8.28 348	29-2	1:01	7.93	13.3	6030	199	164	3.9	1576 2626	204
27.28 238 250	29-3	1:19	7.34	13.5	4373	114	23.7	0.64	2348 2645	204
27.8 28.48 54	29-4	1:37	8.23	12.9	735	294	395.	8.4	1193 2624	204
26.7 384850	A 1-2	2:02	8.04	12.7	13.1	286	27.4	.3	2340 2601	206
27	S13-1	2:42	6.92	13.9	1499	223	0.4	.09	550 572	206
254	A 3-3	3:08	7.4	13.8	5268	225	151.	3.6	1434 2643	204
206 27 206	3-4	3:28	7.78	13.5	5940	276	235	5.5	1183 2695	206
10 unstable { high 27.8.38 low	3-5	3:47	7.26	17.4	6264	204	141.8	3.4	1562 2611	204
196 204 206 27 206	A 2-2	4:11	7.8	12.2	4694	427	279.	7.6	674 2588	204
196 26 27 208 238	S13-2	4:37	6.78	17.2	1779	222	2.7	.1058	560 512	208

15 STD

36 UNK

20/U 1.99092
U/U 6.88365

0.21687

1 std dev. %
1.37%