

UWA DATA LOG: SHRIMP ZIRCON U-Pb

Date: 10/3/96 UWA Mount No. 96-5 Whose sample? MEB Operator(s) McN + April

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	5	5	2
	Delay time (secs):	7	3	1	2	1	1	3	2	2
<del>Phanerozoic</del>	<del>Count time (secs):</del>	<del>2</del>	<del>10</del>	<del>10</del>	<del>10</del>	<del>10</del>	<del>10</del>	<del>5</del>	<del>5</del>	<del>2</del>
	<del>Delay time (secs):</del>	<del>7</del>	<del>3</del>	<del>1</del>	<del>2</del>	<del>1</del>	<del>1</del>	<del>3</del>	<del>2</del>	<del>2</del>

expected 196-204 = 8.170 amu      expected 204-bkg = 0.040 amu      Dead-time = 32 nanosecs  
 actual 196-204 = 8.167      actual 204-bkg = 0.045      expected resolution = >4200  
 Primary = 1.75 nA      PESABM = 28 pA      actual resolution = 5080  
 expected Primary : PESABM ≈ 50:1      actual Primary : PESABM = 62.5

Comments: Raster = 2 mins @ 120µ  
 Scans = 7

Sample A = WW12 n=21  
 - " - B = W17 n=24

USE. Calibra<sup>2</sup> Ave n=14  
 Zr/U: 1.77701  
 UO/U: 5.94666  
 Pb\*/U: 0.178566  
 error % = 2.4212

n=12  
 Zr/U: 1.78800  
 UO/U: 5.98642  
 Pb\*/U: 0.182688  
 (-561-1, 1-2)  
 error % = 1.0351

Rejection over-ride	Sample/Std ID	Time - printout	UO/U	196 cps (K)	206 cps	U ppm	204Pb ppb	f <sub>206</sub> %	Age ±1σ (Ma) 206/238 207/206	Corr.
	std. 1-1	10:23	5.66	7.4	676	220	-0.1	.03	572±1 557±28	208
	std. 1-2	10:43	5.72	6.9	627	220	1.7	.15	571±1	208
	A. 1-1	11:06	6.09	9.8	1860	69.9	-1.3	-	2576±9 2434±8	-
	std. 1-3	11:28	5.98	10.5	1083	195	0.6	.06	625±1 567±34	204
	A. 2-1	11:49	5.91	11.2	1439	51.2	-0.9	-	2617±11 2436±9	-
	A. 3-1	12:10	6.27	11.0	2.5K	73.4	128	4.81	2561±10 2459±22	204
	std. 1-4	12:32	5.95	11.4	1149	196	0.5	.05	617±1 573±25	204
	A. 4-1	12:55	6.26	11.4	1920	55.8	0.6	.03	2623±10 2454±9	204
	A. 5-1	13:16	5.99	11.3	2.4K	81.3	10.6	.02	2593±8 2451±8	204
	std. 1-5	13:39	6.01	11.3	1124	193	0.2	.01	601±1 614±21	208
	A. 6-1	14:00	6.11	11.5	2.6K	82.2	3.6	.13	2620±8 2440±8	204

Poor conductivity  
 ↓  
 delete??

196, 206, 207,  
 238, 248, 254  
 196, 254

196, 206, 238,  
 254

196, 206, 207,  
 238, 248, 254

196

196, 238, 248

206

196, 254

NB: mislabelled  
A.11-1b →

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.
248, 254	A. 7-1	14:20	6.05	<del>11.4</del>	2.9K	94.8	0.8	.02	2624±8 2452±7	204
196, 206, 238, 248	A. 8-1	14:41	5.81	11.8	2.3K	79.0	0.7	.03	2707±9 2434±8	204
196, 206, 207	std. 1-6	15:03	6.20	11.3	1232	183	1.1	.005	623±1 527±21	208
206, 207, 298, 238, 248, 254	A. 9-1	15:23	6.11	<del>11.1</del>	2.0K	72.3	285	12.20	2160±10 2501±39	204
196	A. 10-1	15:44	5.80	11.9	1.9K	67.8	-0.6	-	2637±10 2452±8	-
196, 207, 248, 254	<sup>also in 11-1</sup> A. 10-2	16:04	6.26	11.2	2.1K	62.0	0.4	.02	2639±9 2435±8	204
196, 206, 207, 238, 248, 254	A. 11-1b	16:25	6.01	12.0	2.5K	80.1	1.1	.04	2592±8 2430±8	204
196	std. 1-7	16:45	6.02	11.4	1165	193	0.7	.06	613±1 -	208
207, 238	A. 12-1	17:06	6.15	11.4	1.6K	50.1	0.8	.05	2618±10 2440±9	204
196, 208	A. 13-1	17:27	6.18	11.3	1.8K	55.6	55.7	2.80	2576±10 2439±20	204
196	A. 14-1	17:47	5.84	11.7	2.1K	72.7	0.4	.01	2633±9 2469±8	204
-	A. 15-1	18:07	5.93	12.0	1.6K	50.9	2.3	.12	2649±11 2434±10	204
196, 206, 207	std. 2-1	18:28	6.03	11.7	1227	193	-0.8	-	620±1 531±19	-
196	A. 16-1	18:50	5.90	11.7	1512	51.2	-0.8	-	2642±11 2452±9	-
196, 204, 207, 248, 254	A. 17-1	19:11	6.06	11.7	3308	83.6	94.3	.02	3047±10 2919±11	204
238	A. 18-1	19:34	5.88	12.0	2560	84.6	3.1	.01	2668±8 2447±8	204
204, 208, 254	A. 17-2	19:56	5.92	12.2	3685	97.6	96.5	2.1	3032±9 2963±9	204
196	A. 19-1	20:20	5.99	12.3	1847	58.2	-1.1	-	2596±10 2440±9	-
196, 206, 207	std. 2-2	20:44	5.81	11.9	1172	207.6	0.9	.05	618±1 567±21	208
204, 238	B. 1-1	21:28	6.06	12.1	3245	97.1	3.3	.09	2642±8 2458±7	204
196, 206, 238, 254	B. 2-1	21:52	5.96	11.8	2582	84.2	0.1	0	2634±8 2455±7	204
196, 206, 207, 208, 238, 254	B. 3-1	22:15	6.08	12.2	2039	62.9	0.3	0.02	2547±9 2466±9	204
206, 207, 248, 254	B. 4-1	22:37	6.04	11.8	1743	54.1	0.9	0.05	2654±10 2447±10	204
196, 206, 254	5965.2-3	23:01	5.80	11.0	1100	196.6	1.2	0.11	627±1 558±27	204
196, 206, 207, 208, 238, 254	B. 5-1	23:25	6.19	10.6	2590	83.6	2.3	0.08	2626±8 2450±8	204

hi-ages

NB: Pop A → look for rounded grains → higher ages??

Mount/sample No: 96-5

Date: 10-11/3/96

Page No: 3

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.
	207, 208 238 <del>852</del> U965B.5-2	23:48	6.06	11.2	2868	93.5	0.2	0.01	2632±8	2474±7	204
	206, 208, 238 B6-1	24:12	6.07	11.3	2794	89.3	0.7	0.02	2648±8	2452±7	204
	248 B7-1	24:35	6.05	10.9	2031	68.2	0.7	0.03	2625±9	2445±8	204
	- B8-1	24:58	6.03	10.8	2243	77.4	0.7	0.03	2618±9	2440±8	204
	206, 207 SL2-4	1:23	5.98	10.3	1054	192.4	0.1	0.03	630±1	561±23	204
	196, 206, 248, 254 B9-1	1:46	5.93	10.6	1776	64	4.6	0.19	2684±10	2450±10	204
	196, 206, 208, 254 B.10-1	2:10	6.09	10.5	1329	45.4	1.2	0.07	2626±12	2446±11	204
	- B.11-1	2:34	6.21	10	1838	62.6	0.9	0.04	2608±10	2456±9	204
	196 B.12-1	2:55	6.04	10.1	1720	63.2	1.6	0.07	2607±10	2451±10	204
	- B.12-2	3:17	6.11	9.8 <del>9.8</del>	1534	55.9	0.7	0.04	2613±11	2441±10	204
	196, 206, 254 SL2-5	3:40	5.76	9.5	909	205.8	0.8	0.07	625±1	604±26	204
	206, 207, 208, 238, 254 B.13-1	4:03	6.30	9.6	2250	76.4	1.3	0.05	2602±9	2445±8	204
	206, 207 B.14-1	4:26	6.26	9.6	2438	83.6	0	-	2623±9	2445±7	2-
	- B.15-1	4:49	6.02	9.6	1410	54.6	0.5	0.02	2627±11	2440±10	204
	- B.16-1	5:12	6.13	9.7	2336	85.3	8.4	0.28	2604±9	2460±9	204
	196, 207 SL2-6	5:34	6.00	9.6	1010	194.9	1.4	0.12	629±1	634±35	204
	207, 208, 254 B.17-1	5:54	6.31	9.7	2538	87.9	1.7	0.06	2525±8	2480±8	204
	206, 207, 238 B.18-1	6:16	6.15	9.6	1648	60.9	0.2	0.01	2585±10	2468±9	204
	238 B.16-2	6:37	6.19	9.0	1536	57	2.4	0.12	2664±11	2446±11	204
	196, 206, 207, 208, 238, 248, 254 B.19-1	7:01	6.11	9.3	2383	92.9	0.2	0.01	2590±8	2451±8	204
	- SL2-7	7:22	6.12	9.3	972	187	1.5	0.05	611±1	592±23	208
	207, 238, 248 B.20-1	7:43	6.15	9.3	1940	74.1	0.1	0	2598±9	2446±8	204
	196 B.21-1	8:25	6.19	9.2	2384	89.7	2.5	0.08	2595±9	2443±8	204

ie 10/redrop in Ip  
1° at 1.6na

a bit high?