

UWA DATA LOG: SHRIMP ZIRCON U-Pb

Date: 26/5/96 UWA Mount No.: 96-23 Whose sample?: Barley - ~~Burma~~ 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	<u>20</u> 10	<u>10</u> 10	5	5	2
Phanerozoic*	Delay time (secs):	7	3	1	2	1	3	2	2

expected 196-204 = 8.170 amu expected 204-bkg = 0.040 amu Dead-time = 32 nanosecs
 actual 196-204 = 8.170 actual 204-bkg = 0.040 expected resolution = >4200
 actual 206-207 = 1.000 actual 206-208 = 2.000 actual resolution = 4885
 Primary = 2.3 nA PESABM = 34 pA actual Primary : PESABM (= 50:1) = 68
 Raster time (mins): 2 Raster aperture (microns): 100 No. of scans: 6

Comments: A = LBO-38L Screen locked. ~ 2 a.m.
B = LBO-43D
C = LBO-65B

Rejection over-ride	Sample/ Std ID	Time - printout	UO/U	196 kcps	206 cps	U ppm	204Pb ppb	f206 %	Age ±1σ (Ma) 206/238	207/206	Corr.	
	<u>196, 206, 208, 248, 254</u>	<u>std. 3-4</u>	<u>13:07</u>	<u>5.80</u>	<u>9.5</u>	<u>780</u>	<u>220</u>	<u>1.4</u>	<u>.12</u>	<u>571 ± 1</u>	<u>—</u>	<u>208</u>
	<u>196, 206, 208 238, 254</u>	<u>std. 3-5</u>	<u>13:30</u>	<u>5.85</u>	<u>10.8</u>	<u>853</u>	<u>220</u>	<u>0.3</u>	<u>.02</u>	<u>572 ± 1</u>	<u>—</u>	<u>208</u>
	<u>206, 238, 248</u>	<u>A. 4-1</u>	<u>13:48</u>	<u>6.22</u>	<u>11.1</u>	<u>145</u>	<u>308</u>	<u>0.0</u>	<u>.03</u>	<u>58 ± ?</u>	<u>36 ± ?</u>	<u>204</u>
	<u>196, 206</u>	<u>std. 3-6</u>	<u>14:05</u>	<u>6.23</u>	<u>10.6</u>	<u>989</u>	<u>201</u>	<u>-0.5</u>	<u>—</u>	<u>603 ± 1</u>	<u>517 ± 38</u>	<u>—</u>
	<u>254</u>	<u>A. 5-1</u>	<u>14:23</u>	<u>5.90</u>	<u>10.1</u>	<u>146</u>	<u>434</u>	<u>-0.3</u>	<u>—</u>	<u>54 ± 1</u>	<u>—</u>	<u>—</u>
	<u>196, 206, 238, 248</u>	<u>std. 3-7</u>	<u>14:44</u>	<u>5.92</u>	<u>12.0</u>	<u>967</u>	<u>208</u>	<u>0.2</u>	<u>.02</u>	<u>597 ± 1</u>	<u>632 ± 38</u>	<u>208</u>
	<u>196, 238, 248, 254</u>	<u>A. 6-1</u>	<u>15:01</u>	<u>6.29</u>	<u>11.4</u>	<u>217</u>	<u>461</u>	<u>0.2</u>	<u>.11</u>	<u>54 ± ?</u>	<u>112 ± ?</u>	<u>204</u>
	<u>206, 238, 254</u>	<u>A. 7-1</u>	<u>15:18</u>	<u>6.02</u>	<u>11.7</u>	<u>223</u>	<u>501</u>	<u>0.9</u>	<u>.89</u>	<u>57 ± 1</u>	<u>—</u>	<u>208</u>
	<u>196, 206, 238, 208</u>	<u>A. 8-1</u>	<u>15:36</u>	<u>6.44</u>	<u>12.0</u>	<u>184</u>	<u>332</u>	<u>0.7</u>	<u>.66</u>	<u>56 ± 1</u>	<u>—</u>	<u>208</u>
	<u>206, 254</u>	<u>std. 3-8</u>	<u>15:55</u>	<u>5.96</u>	<u>11.8</u>	<u>1014</u>	<u>209</u>	<u>0.2</u>	<u>.01</u>	<u>615 ± 1</u>	<u>464 ± 40</u>	<u>204</u>
	<u>196, 238</u>	<u>A. 8-2</u>	<u>16:13</u>	<u>6.21</u>	<u>12.1</u>	<u>30.6</u>	<u>63.9</u>	<u>1.5</u>	<u>3.76</u>	<u>52 ± 1</u>	<u>—</u>	<u>204</u>

Sample A
26-27/5
~~1st 248~~
~~1st 206~~ →

Rejection over-ride Sample/ Std ID Time - printout UO/U 196 k cps 206 cps U ppm 204Pb ppb f206 % Age ±1σ (Ma) 206/238 207/206 Corr.

	196, 207	A. 9-1	16:30	6.30	11.9	59.8	80.7	2.0	2.68	79 ± 1	-	204
	196, 207, 254	A. 9-2	16:48	6.27	11.6	61.0	124	1.6	2.01	55 ± 1	-	204
del last 196	196, 206, 238, 248	std. 3B-1	17:05	6.36	11.7	1136	186	2.4	0.03	630 ± 1	565 ± 36	208
	196, 248, 254	A. 10-1	17:25	5.93	12.9	40.0	64	0.9	1.60	76 ± 1	-	204
	196, 204, 206, 248	A. 11-1	17:42	6.66	11.6	640	986	0.5	0.10	62 ± 1	91 ± 80	204
del 1st 248	196, 206, 208, 248, 254	std. 2A-1	18:00	6.44	12.0	1190	187	0.6	.02	620 ± 1	576 ± 35	208
	196, 206, 207, 254	A. 11-2	18:18	6.43	12.3	260	530	1.0	.30	53 ± 1	-	204
del 1st 238 →	196, 208	A. 12-1	18:36	6.58	11.5	45.8	50.4	-0.1	-	90 ± 1	-	-
	196, 208, 238, 248, 254	std. 2A-2	18:57	6.20	12.4	1125	194	0.0	.003	612 ± 1	594 ± 35	204
	196, 238, 254	A. 12-2	19:16	6.17	11.4	57.3	82.4	-0.7	-	85 ± 1	-	-
	196, 206, 208	A. 13-1	19:34	6.30	12.1	404	684	13.4	2.79	62 ± 1	585 ± 101	208
	196, 206, 238, 254	SL 2A-3	19:51	6.48	11.4	1151	188	0.3	0.03	616 ± 0	564 -	204
	196, 206, 248, 254	A. 14-1	20:11	6.34	12.0	73.8	81.6	-ve	-	96 ± 1	0	2-
	206, 208, 238, 248	A. 15-1	20:28	6.18	11.7	148	299	21.6	11.5	52 ± 1	0	208
	204	A. 16-1	20:45	6.93	11.3	1046	1330	1.7	0.22	68 ± 1	144 ± 6	208
del 1st 238, 248 →	196, 206, 208, 238, 248, 254	SL 2A-4	21:02	6.23	11.7	1117	197	1.1	0.10	627 ± 1	497 ± 36	204
	196, 206, 238, 254	A. 17-1	21:20	6.35	11.5	187.9	382	-ve	-	55 ± 1	55 ± 101	2-
del 1st 248 → 248th 206?	196, 254	A. 18-1	21:38	6.33	12.0	40.7	79.7	0.9	0.88	54 ± 1	0	208
	206, 254	A. 19-1	21:56	6.71	11.0	720	1225	-ve	-	58 ± 1	54 ± 53	2-
del 1st 238 →	196, 206, 238, 254	SL 2B-1	22:14	6.27	22.14	1055	192	0.4	0.04	603 ± 1	515 ± 39	204
del 1st	248, 254	A. 20-1	22:32	6.58	11.6	57.4	74.3	-ve	-	76 ± 1	0	-
	196	A. 21-1	22:49	6.57	11.3	415	774	1.5	0.61	54 ± 1	0	208
	196, 238, 248, 254	(rim) A. 22-1	23:07	6.49	11.7	125	232	0.7	0.75	54 ± 1	0	208
	196, 206, 238, 254	SL 2B-2	23:24	6.38	11.4	1089	187	-ve	-	614 ± 1	623 ± 35	2-
	196, 106	(core?) A. 22-2	23:41	6.73	10.8	257	429	1.4	0.63	59 ± 1	-	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.

196, 238, 254	(conv.) A.23-1	23:59	6.66	11.6	128	213	0.6	1.36	56 ± 1	0	208	2-2
238, 208, 248	A.23-2	24:16	6.35	11.7	91.1	184	1.2	1.77	53 ± 1	0	208	
196, 238	A.24-1	24:34	6.86	11.2	118	192	0.37	0.37	55 ± 1	186	204	
196, 206, 207, 254	sl. 2B-3	24:53	6.26	11.5	1062	194	0.7	0.07 0.07	607 ± 1	534 ± 41	204	
196, 254	A.25-1	1:10	6.60	11.4	78.9	135	-ve	-	56 ± 1	10 -	-	
206, 238, 248, 254	A.26-1	1:31	6.96	9.2	89.0	158	1	1.05	59 ± 1	0	208	
196, 238, 248, 254	A.27-1	1:49	6.75	11.2	68.1	110	0.1	0.15	58 ± 1	90 ± 246	204	
del 1 st 248 → 196, 206, 248, 254	sl 2B-4	2:07	6.57	10.8	1074	179	-ve	-	614 ± 1	621 ± 36	-	
196	A.28-1	2:41	6.55	11.3	10.7	19.8	0.5	0.52	55 ± 1	363 ± 542	208	
254	A.28-2	2:58	6.59	11.2	8.7	16.3	-ve	3.38	52 ± 1	193 ± 667	208	
196, 238, 254	A.29-1	3:15	6.74	10.6	188	341	0.8	0.48	55 ± 1	-	204	
196, 206, 238, 254	sl 2B-5	3:33	6.33	10.7	1018	193	-ve	-	610 ± 1	527 ± 38	0 -	2-1
196, 206, 248, 254	B.1-1	3:53	6.79	10.6	105	235	1.6	2.18	43 ± 1	0	208	
196, 238	(rim) B.2-1	4:10	6.79	10.2	341	777	-ve	-	45 ± 1	121 ± 77	-	
196, 238, 254	(conv.) B.2-2	4:27	6.75	10.4	60.4	152	0.4	2.13	40 ± 1	0	208	
del 1 st 248 → 206, 248, 254	sl 4-1	4:44	6.57	10.6	1085	179	0.7	0.07	625 ± 1	549 ± 41	204	
238	B.2-3	5:01	6.62	10.4	148	373	0.6	1.69	42 ± 1	0	208	
254	B.3-1	5:18	6.76	10.4	75.2	183	-ve	-	41 ± 1	114 ± 152	-	2
248, 254	B.4-1	5:35	6.82	10.3	131	299	-ve	-	44 ± 1	224 ± 122	-	
del 1 st 248 → 206, 207	sl 4-2	5:52	6.48	10.5	1026	181	0.4	0.04	615 ± 1	658 ± 37	208	
del 5 th scan →	B.5-1	6:10	5.91	10.1	129	382	0.7	3.19	52 ± 1	0	208	
196, 206, 208, 248	B.6-1	6:28	6.69	10.4	64.9	164	-ve	-	41 ± 1	159 ± 162	-	
196, 238, 248, 254	B.7-1	6:45	6.65	10.2	82.7	216	0.6	1.74	41 ± 1	0	208	
196, 206	sl 4-3	7:02	6.67	10.2	1011	175	0.4	0.04	601 ± 1	551 ± 51	204	
del 1 st 3 scan → 196, 238	B.8-1	7:21	6.69	10.4	22.0	54.2	1.8	0.94	42 ± 1	0	208	1-95

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.
	B 9-1	7:38	6.79	10.1	87.3	214	0.1	0.14	42 ± 1	94 ± 179	204
	B 10-1	7:57	7.07	10.4	80.6	181	-ve	-	40 ± 1	0	204
del 1st 248 →	SL 4-4	8:15	6.39	10.5	972	187	0.6	0.06	592 ± 1	571 ± 44	204
	B 11-1	8:34	6.78	9.7	86.0	222	1.2	1.13	41 ± 1	-	204
	B 12-1	8:53	6.71	10.0	61.4	153	1.8	2.42	42 ± 1	-	204
	B 13-1	9:10	6.67	10.2	100	253	0.8	0.68	43 ± 1	-	204
	std. 4-5	9:29	6.52	10.0	940	175	0.8	.08	603 ± 1	531 ± 49	204
	B 14-1	9:50	6.78	10.1	96.5	235	0.0	.03	42 ± ?	238 ± 238	204
	B 15-1	10:13	6.56	10.3	56.6	119	0.5	.66	53 ± 1	-	204
	B 15-2	10:30	6.42	9.8	71.8	226.2	-0.8	-	40 ± 1	40.2	-
del 1st 248 →	std. 4-6	10:52	6.27	10.4	926.1	185.1	-0.7	-	611.1	609.9 ± 38	-
	B 16-1	11:15	6.63	9.38	43.2	128	1.0	1.71 4	39.4	37.4	204
	B 17-1	11:34	7.03	9.05	118.6	265.5	-0.3	-	46.4	-	-
	B 17-2	11:54	6.66	9.31	150.3	410.2	0.2	0.12	43.2	-	204
	std. 4-7 → 10 dropped off during analysis → very smoky !! ∴ increased Duo P from 350 - 390										
	See new Sheet										