

~~nc = 58 (58 grains)~~ ^{nc = 59 (57 grains)}

del data for scans 58 & 44.

UWA DATA LOG: SHRIMP ZIRCON U-Pb

Date: 25/9/97 ~~9/6/97~~ UWA Mount No.: q6 ~~77~~-77 Whose sample?: C. Adams/MEB Operator(s): McW + AP

Indicate any change to the following:

	196	204	bkg	206	207	208	238	248	254
Precambrian Count time (secs):	2	107	107	10	7	7	5	83	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 = 8.167 actual 204-bkg = 0.040 expected resolution = >4200
 actual 206-207 = 1.000 actual 206-208 = 2.000 actual resolution = 4678
 Primary = 3.9 nA PESABM = 5.4 pA actual Primary : PESABM (= 50:1) = 7.2
 Raster time (mins): 1 Raster aperture (microns): 100 No. of scans: 4

Comments: C = R 20840

1° dropped drastically i.e. < 2 nA when turning back "on" the 1° laser spot 58.
 New Calibra² line.
 New Spot shape more elongate. ^{Processed (5/2 okay).}
 processed. throw out C58-1, very messy scans. Keep / include SL4-4
 even though 1° dropped. Very good scans for SL4-4

^{check C44}
 bec C44 = C43 but later spot.

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.
	sl.6-1	9:37	6.04	18.0	2255	220	-1.6	-	572 ± 1	658 ± 36	-
	sl.6-2	9:47	6.36	17.6	2326	198	0.3	.03	566 ± 1	675 ± 39	204
	C.1-1	10:01	6.05	18.0	537	133	0.2	.06	228 ± 1	396 ± 90	"
	C.2-1	10:11	6.23	18.0	236	49.1	1.1	.76	245 ± 1	0	"
	C.3-1	10:21	6.36	16.6	437	95.0	0.5	.25	242 ± 1	284 ± 191	"
	sl.6-3	10:38	6.19	17.6	2287	211	-0.2	-	569 ± 1	516 ± 37	-
	C.4-1	10:49	6.02	17.2	671	20.7	-0.8	-	1732 ± 12	1959 ± 40	-
	C.5-1	10:59	6.08	17.3	256	64.0	0.3	.25	232 ± 1	240 ± 157	204
	C.6-1			Printer problem							
	C.7-1	11:19	6.22	17.3	490	109	-1.7	-	241 ± 1	98 ± 96	-
	sl.6-4	11:30	6.46	17.0	2342	194	-0.4	-	575 ± 1	514 ± 37	-

Rejection over-ride	Sample/ Std ID	Time - printout	UO/U Kcps	196 cps	206 cps	U ppm	204Pb ppb	f ₂₀₆ %	Age ±1σ (Ma) 206/238	207/206	Corr.
	C. 8-1	11:42	6.13	16.6	524	128	-0.2	-	241 ± 1	209 ± 89	-
	C. 9-1	11:52	6.14	17.1	236	59.4	0.6	-0.54	225 ± 1	108 ± 239	204
	C. 10-1	12:02	6.08	17.1	393	96.3	1.5	.55	238 ± 1	0	"
	C. 11-1	12:12	6.11	17.5	621	149	-1.4	-	236 ± 1	202 ± 82	-
	C. 12-1	12:22	6.31	16.9	627	149	0.9	.31	221 ± 1	198 ± 196	204
	<i>sl. 6-5</i>	<i>12:33</i>	<i>5.75</i>	<i>18.5</i>	<i>2104</i>	<i>238</i>	<i>-1.5</i>	<i>-</i>	<i>567 ± 1</i>	<i>524 ± 39</i>	<i>-</i>
	C. 13-1	12:43	6.11	16.9	745	180	0.6	0.16	242 ± 1	270 ± 104	204
	C. 14-1	12:53	6.25	17.1	595	131	2.2	0.60	244 ± 1	0	204
	C. 15-1	13:05	6.29	16.9	850	192	0.3	0.07	234 ± ?	357 ± ?	204
	C. 16-1	13:16	6.25	17.1	180	38.3	0.4	0.51	251 ± 4	37 ± ?	204
	C. 17-1	13:25	6.34	17.0	528	120	0.1	0.06	228 ± 1	308 ± 92	204
	C. 18-1	13:35			No Print out						
	<i>sl. 6-6</i>	<i>13:46</i>	<i>5.96</i>	<i>17.6</i>	<i>2126</i>	<i>222</i>	<i>0.7</i>	<i>0.06</i>	<i>571 ± 1</i>	<i>576 ± 57</i>	<i>204</i>
	C. 19-1	13:56	6.27	16.2	495	124	0.3	0.11	223 ± 1	184 ± 150	204
	C. 20-1	14:06	6.41	16.6	262	57.9	0.5	0.45	230 ± 2	216 ± ?	204
	C. 21-1	14:16	6.20	17.2	231	52.9	-0.4	-	239 ± 1	129 ± ?	-
	C. 22-1	14:27	6.24	17.3	220	48.4	1.1	0.81	240 ± 3	-	204
	C. 23-1	14:38	6.22	17.0	⁴⁰⁶ 9023	90.3	-	-	246 ± 1	347 ± 96	-
	C. 24-1	14:47	6.24	16.9	864	190	0.3	0.13	249 ± 1	220 ± 112	204
	<i>sl. 5-1</i>	<i>14:57</i>	<i>5.92</i>	<i>17.8</i>	<i>2021</i>	<i>219</i>	<i>-1.5</i>	<i>-</i>	<i>557 ± 1</i>	<i>631 ± 38</i>	<i>-</i>
	C. 25x-1	15:07	6.23	17.2	416	95.5	-0.1	-	235 ± 1	211 ± 96	-
	C. 26-1	15:17	6.19	17.0	375	89	-0.2	-	236 ± 1	272 ± 103	-
	C. 27-1	15:27	6.17	16.9	789	178	-0.2	-	251 ± 1	128 ± 75	-
	C. 28-1	15:36	6.25	17.0	483	106	-0.1	-	246 ± 1	87 ± 0	-
	C. 29-1	15:46	6.14	17.2	149	36.5	-0.4	-	229 ± 1	0	-

3.7-A

Change Name from UC 25-1 →

Rejection over-ride	Sample/ Std ID	Time - printout	UO/U	196 cps	206 cps	U ppm	204Pb ppb	f ₂₀₆ %	Age ±1σ (Ma) 206/238	207/206	Corr.
	C. 30-1	15:56	6.11	17.1	368	88.6	0.1	0.05	240 ± 1	285 ± 116	204
	SL 5-2	16:07	6.30	16.8	2225	198	-0.8	-	584 ± 1	534 ± 38	-
	C. 31-1	16:18	6.20	17.1	288	67.1	-1.4	-	287 ± 1	157 ± 123	-
	C. 32-1	16:27	6.27	16.8	322	71.2	-1.2	-	245 ± 1	229 ± 113	-
	C. 33-1	16:37	5.96	17.4	253	68.6	2.4	1.3	225 ± 2	-	204
	C. 34-1	16:47	6.30	16.6	575	129	0.9	0.33	241 ± 1	197 ± 161	204
	C. 35-1	16:57	6.18	17.2	1189	114	0.6	0.10	562 ± 1	574 ± 75	204
	C. 36-1	17:07	6.15	16.9	137	33	0.1	0.19	238 ± 1	619 ± ?	204
	SL 5-3	17:17	6.10	16.9	2155	212	-0.4	-	583 ± 1	573 ± 38	-
	C. 37-2	17:28	6.16	17.3	114	26	-0.9	-	242 ± 1	297 ± 189	204
	C. 38-1	17:37	6.21	16.4	631	149	3.2	1.03	240 ± 1	40 ± ?	204
	C. 38-1	17:46	6.28	17.3	176	40.7	-0.7	-	226 ± 1	178 ± 157	-
	C. 39-1	17:56	6.15	17.0	858	209	-1.2	-	233 ± 1	203 ± 69	-
	C. 40-1	18:06	6.20	16.9	4925	160	4.2	0.15	1553 ± 4	1754 ± 18	204*
	C. 41-1	18:15	6.24	16.9	1088	249	-0.7	-	238 ± 1	242 ± 61	-
	SL 4-1	18:27	6.47	16.8	2334	193	0.2	0.02	577 ± ?	633 ± ?	204
	C. 42-1	18:38	6.11	17.1	314	73.3	0.8	0.39	246 ± 1	0	204
	C. 43-1	18:48	6.35	16.6	170	37.2	0.9	0.87	238 ± 2	0	204
	C. 44-1	18:56	6.11	17.4	169	38.7	1.2	1.09	246 ± 2	0	204
	C. 45-1	19:06	6.11	17.0	705	169	-0.2	-	243 ± 1	230 ± 76	-
	C. 46-1	19:15	6.15	17.1	545	140	0.7	0.27	220 ± 1	128 ± 142	204
	C. 47-1	19:40	6.30	17.1	281	60.4	1.2	0.71	242 ± 1	0	204
	SL 4-2	19:50	6.12	17.6	2172	211	0.1	0.01	563 ± ?	572 ± ?	204
	C. 48-1	20:00	6.14	17.5	535	123	0.6	0.23	240 ± 1	158 ± 149	204
	C. 49-1	20:10	6.25	17.2	500	112	0.6	0.25	238 ± 2	162 ± 0	204

~~SL 4-1 to~~

Same grain? Same spot.

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.

	C50-1	20:20	6.24	16.9	569	125	-0.2	-	250 ± 1	187 ± 86	-
	C51-1	20:31	6.29	16.1	385	95.2	0.3	0.18	228 ± ?	140 ± ?	204
	C52-1	20:40	6.36	17.1	312	68	0.9	0.51	232 ± 1	0	204
	C53-1	20:50	6.28	17.0	322	74.9	-0.2	-	229 ± 1	309 ± 110	-
	SL 4-3	21:10	6.36	16.8	2181	198	0.0	0.002	556 ± 1	599 ± 37	204
	C54-1	21:00	6.32	15.8	287	67.4	-0.9	-	239 ± 1	260 ± 119	-
	C55-1	21:20	6.26	16.7	406	95.2	-1.4	-	233 ± 1	85 ± ?	-
	C56-1	21:30	6.13	16.9	77.9	17.6	0.3	0.71	254 ± ?	185 ± ?	204
	C57-1	21:41	6.06	17.0	285	67.7	0.7	0.37	251 ± 1	0	204
<i>1° dropped.</i>	SL 4-4										
<i>del whole scan.</i>	C58-1	21:53	7.00	16.6	627	84.1	-0.3	-	292 ± 1	0	-
	SL 4-5										
	C59-1										
	C60-1										
	C61-1										
	SL 4-7										
	C64-1										
	C65-1										
	C66-1										
	C67-1										
	C68-1										
	C69-1										
	C70-1										
	C71-1										

*1° dropped.
del whole scan.*

more than 2 scans spots dropped 1°.

spiky 3.2 nA →

SL 677.4-4

*3.6 nA →
very spiky 1°*

45 — del. very jumpy memory