

UWA DATA LOG: SHRIMP ZIRCON U-Pb

Date: 2/5/97 UWA Mount No. 96-81 Whose sample? MEB/CA Operator(s) McW + AP

Indicate any change to the following: 196 204 bkg 206 207 208 238 248 254

Precambrian  
Phanerozoic\*

Count time (secs): 2 10 10 10 20 10 5 5 2  
 Delay time (secs): 78 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 = 1.000 actual 206-208 = 1.999 actual resolution = 4885

Primary = 3.3 nA PESABM = 50 pA actual Primary : PESABM (= 50:1) = 66

Raster time (mins): 2 Raster aperture (microns): 100 No. of scans: 4

Comments: A = R19483 → detrital zircons.

*1° dropped out before SL 1-11. new 1° at 2.9-3 nA. 1° stable during analysis, but requires adjustment inbetween analyses. Power supply unstable → Electrical appliances "flickering".*

No rejections Processed. (5%), ok.

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. 1-1	10:09	6.53	22.5	2203	220	-1.9	.02	572 ± 1 636 ± 23	208
	SL. 1-2	10:21	6.45	22.5	2163	222	1.3	.04	576 ± 1 622 ± 24	208
	A. 1-1	10:37	6.61	21.9	464	85.2	24.2	8.09	288 ± 1 —	208
	A. 2-1	10:49	6.55	20.1	1416	320	1.6	.20	287 ± 1 109 ± 65	204
	A. 3-1	11:08	6.51	20.3	143	30.2	2.0	3.53	297 ± 2 —	208
	SL. 1-3	11:24	6.55	20.7	2051	215	0.3	-.01	586 ± 1 596 ± 24	208
	A. 4-1	11:42	6.71	20.6	1098	222	1.2	.21	290 ± 1 197 ± 78	204
	A. 5-1	12:09	6.78	20.4	437	85.6	0.3	.14	292 ± ? 318 ± ?	204
	A. 6-1	11:55	6.62	20.8	781	117	0.4	-.09	401 ± 1 330 ± 64	204
	A. 7-1	12:23	6.61	21.2	532	109	13.5	5.15	277 ± 1 234 ± 120	208
	SL. 1-4	12:36	6.74	20.2	2062	209	2.0	-.06	571 ± 1 643 ± 24	208

Rejection over-ride	Sample/ Std ID	Time - printout	UO/U K cps	196 cps	206 cps	U ppm	204Pb ppb	f <sub>206</sub> %	Age ±1σ (Ma) 206/238	207/206	Corr.
	A.8-1	12:49	6.61	20.5	1098	225	24.5	4.10 <del>3.8</del>	289 ± 1	155 ± ?	204
	A.9-1	13:04	6.51	21.5	535	116	-0.4	-	285 ± 1	225 ± 53	-
	A.10-1	13:18	6.62	21.4	315	64	0.7	.29	287 ± 1	168 ± 108	208
	A.11-1	13:33	6.81	21.1	1393	267	4.1	-61	285 ± 1	199 ± 66	204
	sl. 1-5	13:48	6.62	21.4	2189	211	-0.6	.04	593 ± 1	513 ± 24	208
	A.12-1	14:02	4.82	52.2	336	81.3	1.9	.08	318 ± 1	329 ± 72	208
	A.13-1	14:15	6.68	<del>22.0</del> 42K	42K	606	168.6	7.59	355 ± 1	318 ± 38	208
	A.14-1	14:27	6.89	20.5	1446	266	20.6	3.46	267 ± 1	143 ± 64	208
	A.15-1	14:40	6.95	20.6	435	79.6	9.3	6.18	271 ± 1	229 ± 138	208
	sl. 1-6	14:53	6.41	22.5	2112	215	0.5	.03	592 ± 1	514 ± 25	208
	A.16-1	15:06	7.00	19.9	1607	229	-0.8	.11	373 ± 1	325 ± 39	208
	A.17-1	15:19	6.83	20.3	2431	435	1.8	-17	316 ± 1	282 ± 35	208
	A.18-1	15:32	6.82	20.6	623	121	9.0	3.02	279 ± 1	305 ± 90	208
	A.19-1	15:45	6.67	20.7	509	108	1.4	.52	279 ± 1	114 ± ?	204
	sl. 1-7	15:58	6.73	19.1	2071	219	0.4	.06	581 ± 1	565 ± 25	208
	A.20-1	16:12	6.76	19.7	1686	340	11.0	1.52	294 ± 1	246 ± 41	208
	A.21-1	16:25	6.85	19.4	670	128	13.0	4.30	292 ± 1	225 ± 97	208
	A.22-1	16:38	7.17	19.1	325	61.9	-0.6	-	274 ± 1	355 ± 65	-
	A.23-1	16:51	6.50	18.8	1197	299	1.9	.17	283 ± 1	241 ± 52	208
	sl. 1-8	17:03	6.71	19.2	2027	214	0.6	.03	583 ± 1	607 ± 25	208
	A.24-1	17:21	6.58	17.6	1321	337	11.0	1.16	283 ± 1	339 ± 44	208
	A.25-1	17:34	6.97	18.1	1829	386	12.5	1.08	281 ± 1	222 ± 64	208
	A.26-1	17:46	6.63	18.5	1127	266	7.4	.75	285 ± 1	311 ± 61	208
	A.27-1	17:59	6.54	19.0	1049	127	10.6	4.90	530 ± 1	-	208
	sl. 1-9	18:11	6.55	20.1	2052	218	0.1	.06	593 ± 1	545 ± 25	208

met O<sub>2</sub>  
NO<sub>2</sub> peak! →

↓ <sup>10</sup> dropping  
at stability  
↓  
10 = 2.9 nA

Rejection over-ride    Sample/Std ID    Time - printout    UO/U K cps    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 K cps	196 cps	206 cps	U ppm	204Pb ppb	f206 %	Age ±1σ (Ma) 206/238	207/206	Corr.
	A.28-1	18:24	6.74	19.3	196	41.8	3.2	2.62	283±1	458±155	208
	A.29-1	18:37	6.64	20.3	827	164	11.6	1.01	308±1	625±63	208
	A.30-1	18:49	6.63	19.2	1097	249	18.1	2.54	281±1	434±64	208
	A.31-1	19:02	6.82	18.9	882	187	9.6	1.76	<del>282±1</del>	293±76	208
	A.32-1	19:15	7.00	19.7	5228	163	5.8	0.18	157±4	2488±9	204
	SL 1-10	19:28	6.75	18.4	2000	218	-0.7	0.02	583±1	542±25	208
	A.33-1	19:42	6.70	17.7	2152	243	1.3	0.10	593±1	584±35	204
	A.34-1	19:54	6.48	19.4	482	119	0.3	0.11	282±1	289±177	204
	A.35-1	20:08	6.69	18.6	1292	289	17.3	2.3	287±1	108±2	204
	A.36-1	20:21	6.66	19.0	312	20.1	0.6	0.3	958±10	1068±221	204
	A.37-1	20:34	6.83	19.0	<del>778</del>	168	1.3	0.3	280±1	248±89	204
	SL 1-11	20:05	6.53	19.7	2012	220	0.7	0.03	596±1	496±25	208
	A.38-1	21:23	7.12	18.3	917	179	0.5	0.11	286±1	383±77	204
	A.39-1	21:36	6.5	18.9	556	141	10.5	2.9	271±2	574±198	204
	A.40-1	21:51	7.02	16.5	1661	159	0.3	0.03	653±1	684±27	204
	<del>A.41-1</del>	22:05	6.82	16.0	1807	227	-1.3	0.03	560±1	618±26	208
	A.42-1	22:19	6.78	16.9	460	39	0.4	0.15	783±1	958±144	204
	A.42-1	22:34	6.79	18.3	742	77	-0.1	0.14	601±1	683±39	208
	A.43-1	22:48	6.52	20.0	110	23	0.6	0.72	310±2	0±0	204
	<del>A.44-1</del>	23:02	6.81	19.1	2041	218	0.4	0.06	556±1	529±25	208
	A.44-1	23:15	6.6	19.7	1151	61.6	2.0	0.28	1125±4	1239±34	204
	A.45-1	23:29	6.69	20.2	1107	244	3.3	0.55	274±1	419±83	204
	A.46-1	23:42	6.71	19.2	236	55.9	0.2	0.15	264±1	332±206	204
	A.47-1	23:55	6.69	19.8	389	87.6	0.3	0.15	274±1	322±116	204
	A.48-1	24:07	7.13	20.5	1542	253	52.7	7.8	279±1	203±2	204

i° = 2.9

i° dropped out →

2.8 →

i° jumped.  
2.8 → 3.1A  
esp bet. analysis.  
↓  
stabilized.

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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.
	<del>U.A.49-1</del>	24:20	6.86	19.4	2154	281	1.5	0.13	442 ± 1	401 ± 34	204
	<del>SL1-14</del>	24:34	6.58	21.4	2124	222	0.8 9.08	0.03	561 ± 1	603 ± 24	208
	U.A50-1	24:47	7.08	19.9	385	7.3	4.3	2.5	273 ± 2	264 ± 2	204
	U.A51-1	1:00	6.64	20.3	753	166	1.3	0.10	279 ± 1	262 ± 64	208
	U.A52-1	1:13	6.88	20.0	<del>731</del>	116	0.8	0.22	353 ± 1	358 ± 95	204
	U.A53-1	1:25	6.86	19.8	190	22.7	10.1	10.3	428 ± 8	322 ± 2	204
	U.A54-1	1:38	6.67	19.9	<del>17.3</del>	14.5	-1.2	1.0	283 ± 2	139 ± 2	208
	U.A55-1	1:51	6.77	19.4	364	78.5	-0.6	-	283 ± 1	402 ± 60	<del>204</del>
	<del>SL1-15</del>	2:03	6.83	18.5	2082 <del>221</del>	221 <del>0.9</del>	0.9 <del>0.04</del>	0.04	573 ± 1	492 ± 25	208
	U.A56-1	2:16	6.85	20.1	5800	134	-ve	-	2125 ± 6	2158 ± 8	<del>204</del>
	<del>U.A57-1</del>	2:30	6.85	19.2	394	80.2	1.1	0.55	289 ± 2	204 ± 2	204
	A57-2	2:43	6.60	21.3	697	135	24.6	5.1	295 ± 2	64 ± 2	204
	A58-1	2:55	6.98	20.2	675	108	0.9	0.28	330 ± 1	231 ± 79	204
	A59-1	3:08	6.65	20.8	965	209	12.5	2.5	269 ± 1	7 ± 2	204
	A60-1	3:20	6.79	20.8	3681	251	7.4	0.38	791 ± 1	867 ± 27	204
	<del>A61-1</del>	<del>3:33</del>	<del>6.56</del>	<del>19.5</del>	<del>209</del>	<del>36.2</del>	<del>-1.2</del>	<del>0.25</del>	<del>380 ± 1</del>	<del>408 ± 77</del>	<del>204</del>
	<del>SL1-16</del>	3:46	6.75	19.7	2056	216	0.9	0.03	563 ± 1	591 ± 24	208
	A.62-1	3:59	6.75	19.2	451	49	1.7	0.67	554 ± 3	287 ± 149	208
	A.63-1	4:12	6.83	18.7	791	178	-ve	2	274 ± 1	298 ± 42	<del>204</del>
	A.64-1	4:25	6.69	20.0	1845	94.3	1.0	0.09	1104 ± 3	1096 ± 31	204
	A.65-1	4:38	7.09	18.8	4314	206	-ve	0.01	1083 ± 2	1061 ± 15	208
	A66-1	4:53	6.59	19.8	417	94.5	-ve	-	284 ± 1	262 ± 59	-
	A67-1	5:05	7.0	18.6	4419	232	1.6	0.07	1032 ± 2	1012 ± 14	204
	<del>SL1-17</del>	5:18	6.59	2.0	2048	220	1.1	0.03	571 ± 1	511 ± 25	208
	A68-1	5:32	6.56	19.6	347	82.3	2.7	1.36	275 ± 2	67 ± 2	204

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Rejection over-ride	Sample/ Std ID	Time - printout	UO/U	196 cps	206 cps	U ppm	<sup>204</sup> Pb ppb	f <sub>206</sub> %	Age ±1σ (Ma) 206/238    207/206		Corr.
	A69-1	5:45	6.80	19.6	163	28.5	-ve	0.16	338 ± 3	330 ± 2	208
	A70-1	5:58	6.80	19.2	164.5	161	0.5	0.05	604 ± 1	619 ± 28	204
	A71-1	6:10	6.85	19.4	635	135	1.6	0.47	276 ± 1	107 ± 2	204
	A72-1	6:23	6.75	19.6	618	110	-ve	-	339 ± 1	308 ± 48	-
	A73-1	6:38	6.89	19.0	294	61.6	-0.2	0.82	280 ± 1	358 ± 104	208
	sL1-18	6:50	6.79	18.4	2055	220	-0.8	0.02	580 ± 1	494 ± 25	208
B	B1-1	7:03	6.94	19.3	994	219	2.1	0.42	258 ± 1	78 ± 2	204
	B2-2	7:15	6.67	19.7	519	65.4	3.9	1.35	481 ± 2	248 ± 163	204
	B3-1	7:28	6.62	22.0	211	43	11.7	8.3	258 ± 3	-	204
	B4-1	7:41	6.60	19.8	242	50.8	1.0	0.75	303 ± 2	110 ± 2	204
	B5-1	7:53	6.78	19.7	1616	79.6	5.3	0.59	1122 ± 4	982 ± 40	204
	B6-1	8:07	6.93	19.5	717	166	0.9	0.23	244 ± 1	560 ± 106	204
	sL1-19	8:20	6.64	20.4	2057	214	0.6	0.00	575 ± 1	562 ± 25	208
	B7-1	8:32	6.79	19.3	1629	202	12.5	1.39	474 ± 1	549 ± 73	204
	B8-1	8:45	6.64	19.9	696	123	1.1	0.29	352 ± 1	361 ± 89	204
	B9-1	9:03	6.78	18.9	1241	229	2.6	0.38	335 ± 1	322 ± 75	204
	sL1-20	9:15	6.78	17.5	1916	218	-0.2	0.01	575 ± 1	591 ± 25	208