

UWA DATA LOG: SHRIMP ZIRCON U-Pb

Date: 17-18/10/97 UWA Mount No.: 97-18 Whose sample?: CA/April Operator(s): IF/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* ✓ 10 ✓ 5 ✓ 5 ✓ 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 = 8.166 (X) actual 204-bkg = 0.040 expected resolution = >4200
 actual 206-207 = 1.000 actual 206-208 = 2.000 actual resolution = 4695
 Primary = 3.2 nA PESABM = 52 pA actual Primary : PESABM (≈ 50:1) = 62
 Raster time (mins): 1 Raster aperture (microns): 100 No. of scans: 4

Comments: (X) 196-204 changed from 8.160 to 8.166
 A^o bet 3.2 - 3.3. (prob with conductivity?) but mostly straight lines. v. stable 1^o.

nA = 96

Processed counts. Good calibration, only A.45-1 required data reject^{2σ}

Rejection over-ride	Sample/Std ID	Time - printout	UO/U	196 cps	206 cps	U ppm	204Pb ppb	f ₂₀₆ %	Age ±1σ (Ma)		Corr.
				(X)					206/238	207/206	
	SL 4-13	10:51	5.57	20.9	2257	220	-1.2	-	572 ± 1	572 ± 37	-
	SL 4-14	11:02	5.72	19.6	2316	218	1.2	0.10	573 ± 1	608 ± 47	204
	UA 1-1	11:15	5.46	19.8	161	47.6	0.8	0.64	218 ± 2	0	204
	UA 2-1	11:27	5.66	19.4	372	95	1.7	0.66	226 ± 1	0	"
(X)	SL 4-15	11:45	5.74	19.3	2332 213	213 213	0.9	0.66	590 ± 1	489 ± 43	204
	UA 3-1	12:16	5.53	20.9	206	50	0.8	0.58	239 ± 2	0	204
	UA 4-1	12:26	5.76	20.4	106	24	1.9	2.98	225 ± 3	0	204
	UA 5-1	12:39	5.58	20.2	128	29	1.8	2.05	257 ± 4	0	204
	UA 6-1	12:50	5.66	20.0	591	137	0.2	0.08	243 ± ?	78 ± ?	204
	SL 4-16	13:03	5.38	22.5	2282	232	6.4	0.03	579 ± 1	649 ± 44	204
	UA 7-1	13:12	5.77	20.4	469	105	-0.3	-	229 ± 1	204 ± 94	-

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Rejection over-ride	Sample/ Std ID	Time - printout	UO/U	196 cps (k)	206 cps	U ppm	²⁰⁴ Pb ppb	f ₂₀₆ %	Age ±1σ (Ma) 206/238	207/206	Corr.
	uA 8-1	13:22	5.68	20.4	279	64	0.1	0.09	236 ± 1	481 ± 118	204
	uA 9-1	13:32	5.52	20.7	473	118	0.5	0.20	238 ± 1	159 ± ?	204
	uA 10-1	13:42	5.58	19.6	168	41	0.1	0.16	243 ± ?	414 ± ?	"
	uA 11-1	13:51	5.74	20.1	459	105	0.4	0.19	232 ± ?	33 ± ?	"
	uA 12-1	14:02	5.87	20.2	171	37	1.2	1.22	224 ± 2	0	"
	SL 4-17	14:12	5.64	20.4	2322	220	-0.4	-	577 ± 1	435 ± 37	-
	uA 13-1	14:22	5.76	20.2	515	114	-0.2	-	236 ± 1	288 ± 87	-
	uA 14-1	14:32	5.92	19.0	2157	466	-0.3	-	234 ± 1	241 ± 43	-
	uA 15-1	14:42	5.69	20.3	148	36	-0.8	-	225 ± 1	531 ± 150	-
	A 16-1	14:52	5.64	20.1	129	31	-1.3	1.57	230 ± 3	0	204
	A 17-1	15:02	5.72	20.6	320	67	0.8	0.58	240 ± 2	245 ± ?	"
	A 18-1	15:12	5.71	19.4	316	79	-0.7	-	224 ± 1	418 ± 106	-
	SL 4-18	15:23	5.72	19.9	2408	217	-1.6	-	587 ± 1	578 ± 36	-
	A 19-1	15:33	5.71	20.2	415	93	-0.6	-	243 ± 1	232 ± 99	-
	A 20-1	15:43	5.67	20.5	496	108	-1.3	-	252 ± 1	199 ± 92	-
	A 21-1	15:52	5.73	19.8	1011	234	-1.5	0.32	235 ± 1	103 ± ?	204
	A 22-1	16:02	5.56	20.3	159	38	-0.6	-	248 ± 1	325 ± 156	-
	A 23-1	16:12	5.62	20.2	466	115	0.3	0.12	232 ± 1	127 ± ?	204
	A 24-1	16:22	5.77	20.6	1393	278	-1.3	-	255 ± 1	270 ± 53	-
	SL 4-19	16:34	5.64	20.3	2366	219	-0.3	-	591 ± 1	493 ± 57	-
	A 25-1	16:44	5.50	19.1	450	122	0.2	0.07	243 ± ?	186 ± 96	204
	A 26-1	16:55	5.84	19.9	353	75	-0.8	-	238 ± 1	313 ± 104	-
	A 27-1	17:04	5.82	19.6	185	39	0.7	0.79	243 ± 2	527 ± 315	204
	A 28-1	17:14	5.62	20.1	610	154	0.1	0.03	228 ± 1	225 ± 95	204
	A 29-1	17:23	5.71	19.5	61	15	0.3	0.20	228 ± 7	601 ± ?	204

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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.
	A-30-1	17:34	5.84	20.2	212	48	1.4	1.13	220 ± 2	0	204
	SL 4-20	17:45	5.46	21.5	2319	226	-2.4	-	597 ± 1	496 ± 37	-
	A-31-1	17:55	5.96	19.1	499	107	-0.3	-	229 ± 1	317 ± 87	-
	A-32-1	18:05	5.96	19.4	213	45	0.5	0.44	232 ± 3	0	204
	A-33-1	18:16	5.62	20.0	399	98	0.9	0.34	233 ± 1	0	204
	A-34-1	18:26	5.73	20.0	225	52	-0.2	-	234 ± 1	214 ± 137	-
	A-35-1	18:35	5.74	20.0	274	62	-1.1	-	235 ± 1	226 ± 123	-
	A-36-1	18:46	5.61	20.5	171	43	1.9	2.27	221 ± 2	49 ± ?	204
	SL 4-21	18:59	5.71	20.2	2364	216	-0.6	-	579 ± 1	586 ± 36	-
	A-37-1	19:09	5.65	20.5	205	47	1.3	0.01	237 ± 2	0	204
	A-38-1	19:20	5.64	21.4	264	55	0.4	0.32	256 ± ?	194 ± ?	204
	A-39-1	19:29	5.63	20.8	237	56	0.9	0.61	231 ± 1	0	204
	A-40-1	19:39	5.76	20.4	175	36	-0.2	-	251 ± 1	261 ± 153	-
	A-41-1	19:48	5.72	20.8	411	88	0.3	0.14	242 ± 1	29 ± ?	204
	A-42-1	19:57	5.62	20.3	701	170	1.0	0.28	235 ± 1	110 ± ?	204
	SL 4-22	20:08	5.67	20.4	2266	211	-0.4	-	574 ± 1	547 ± 37	-
	A-43-1	20:18	5.79	19.9	519	117	-1.8	-	231 ± 1	228 ± 89	-
	A-44-1	20:37	5.68	20.5	232	51	-1.3	-	245 ± 1	318 ± 128	-
	A-45-1	20:58	6.69	20.8	237	38	-0.7	-	196 ± 1	330 ± 127	-
	A-46-1	21:08	5.68	20.1	1158	214	-0.3	-	297 ± 1	391 ± 55	-
	A-47-1	21:17	5.39	19.9	266	74	-0.5	-	243 ± 1	268 ± 123	-
	A-48-1	21:27	5.60	21.2	154	35	1.3	1.32	240 ± 3	0	204
	SL 4-23	21:38	5.75	20.7	2402	207	2.1	0.19	578 ± 1	487 ± 52	204
	A-49-1	21:48	5.71	20.1	1147	247	-0.4	-	251 ± 1	248 ± 59	-
	A-50-1	21:58	5.73	20.7	529	114	-1.8	-	242 ± 1	342 ± 84	-

del scan 4 for 238, 244, 254.
(change in 1st)

3.2-3.3

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Rejection over-ride	Sample/ Std ID	Time - printout	UO/U	196	206	U	204Pb	f ₂₀₆	Age ±1σ (Ma)		Corr.
				cps (K)	cps ↓	ppm	ppb	%	206/238	207/206	
	A 51-1	22:08	5.71	20.3	473	108	-0.1	-	236 ± 1	200 ± 94	-
	A 52-1	22:19	6.01	20.5	150	30	1.2	1.5	224 ± 2	0	204
	A 53-1	22:29	5.77	20.0	268	63	-1.1	-	223 ± 1	458 ± 113	-
	A 54-1	22:39	5.68	20.6	420	99	-0.7	-	229 ± 1	315 ± 95	-
	sl 4-24	22:50	5.52	21.9	2320	223	0.4	0.04	573 ± 1	479 ± 46	20x
	A 55-1	23:00	5.68	20.6	140	29	0.0	-	261 ± 1	264 ± 172	-
	A 56-1	23:10	5.75	20.7	610	131	0.2	0.05	239 ± 1	0	204
	A 57-1	23:19	5.71	21.1	215	48	-2.0	-	232 ± 1	278 ± 136	-
	A 58-1	23:30	5.76	20.5	286	62	0.1	0.07	237 ± 1	266 ± 2	204
	A 59-1	23:40	5.46	19.9	727	263	1.2	0.29	231 ± 1	174 ± 143	204
	A 60-1	23:49	5.86	19.1	2351	530	-1.7	-	232 ± 1	197 ± 42	-
	sl 4-25	24:01	5.57	21.3	2341	221	-0.4	-	580 ± 1	621 ± 35	-
	A 61-1	24:12	5.67	21.0	374	88	-0.3	-	227 ± 1	257 ± 104	-
	A 62-1	24:22	5.61	21.5	781	180	2.4	0.65	233 ± 1	153 ± 2	204
	A 63-1	24:31	5.68	20.7	633	147	-0.8	-	237 ± 1	170 ± 82	-
	A 64-1	24:40	5.61	21.1	573	132	-0.8	-	238 ± 1	373 ± 80	-
	A 65-1	24:51	5.69	20.3	325	74	-3.2	-	239 ± 1	372 ± 106	-
	A 66-1	1:01 28:	5.53	21.6	1332	316	0.4	0.06	239 ± 1	248 ± 60	204
	sl 4-26	1:12	5.66	20.8	2403	219	1.0	0.08	580 ± 1	571 ± 43	20x
	A 67-1	1:22	5.80	20.8	258	54	-0.3	-	240 ± 1	292 ± 128	-
	A 68-1	1:32	5.69	20.5	302	66	-0.7	-	244 ± 1	332 ± 112	-
	A 69-1	1:41	5.79	20.8	244	50	1.5	1.03	241 ± 1	0	204
	A 70-1	1:51	5.85	21.4	252	52	-0.2	-	229 ± 1	317 ± 124	-
	A 71-1	2:01	5.66	21.1	299	66	-0.4	-	240 ± 1	383 ± 111	-
	A 72-1	2:11	5.57	21.5	115	24	-0.8	-	269 ± 1	692 ± 160	-

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3.4nA3.4-
3.5nA →

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Rejection over-ride	Sample/ Std ID	Time - printout	UO/U	196 cps (K)	206 cps	U ppm	²⁰⁴ Pb ppb	f ₂₀₆ %	Age ±1σ (Ma) 206/238	207/206	Corr.
	BL4-27	2:22	5.66	21.2	2445	217	-1.1	-	584 ± 1	511 ± 36	-
	A-73-1	2:37	5.72	21.6	617	32	-1.5	-	923 ± 4	911 ± 62	-
	A-74-1	2:48	5.56	22.1	851	192	0.4	0.10	239 ± 1	253 ± 87	204
	A-75-1	2:58	5.54	22.4	1752	409	-1.4	-	233 ± 1	285 ± 47	-
	A-76-1	3:09	5.46	22.0	152	34	0.9	0.88	255 ± 1	0	204
	A-77-1	3:19	5.58	22.0	411	92	-0.3	-	239 ± 1	302 ± 97	-
	A-78-1	3:29	5.66	21.5	585	128	0.7	0.26	240 ± 1	337 ± 115	204
	SL1-13	3:41	5.62	23.2	2562	211	-0.2	-	587 ± 1	565 ± 35	-
	A-79-1	3:50	5.93	21.7	717	133	0.5	0.17	238 ± 1	136 ± 127	204
	A-80-1	4:00	5.80	22.0	222	46	-1.0	-	229 ± 1	256 ± 126	-
	A-81-1	4:10	5.68	22.4	590	119	-0.6	-	245 ± 1	181 ± 81	-
	A-82-1	4:19	5.57	22.3	353	76	0.6	0.36	247 ± 1	177 ± ?	204
	A-83-1	4:29	5.76	22.6	384	64	0.0	0	242 ± 1	333 ± 107	-
	A-84-1	4:38	5.81	22.0	1835	344	-0.5	-	249 ± 1	281 ± 46	-
	SL1-14	4:49	5.79	22.2	2626	206	1.1	0.10	583 ± 1	481 ± 41	204
	A-85-1	4:59	5.56	22.3	362	79	1.4	0.63	244 ± 1	0.8 ± ?	204
	A-86-1	5:09	5.64	22.6	426	85	-0.4	-	253 ± 1	184 ± 100	-
	A-87-1	5:19	5.73	23.1	197	39	0.7	0.69	234 ± 2	0	204
	A-88-1	5:31	5.74	22.3	282	55	-0.2	-	250 ± 1	344 ± 115	2
	A-89-1	5:41	5.65	22.2	318	72	0.4	0.28	227 ± ?	244 ± ?	204
	A-90-1	5:51	5.53	22.6	555	129	0.3	0.11	233 ± 1	204 ± 130	204
	SL1-15	6:01	5.63	24.1	2591	208	-0.8	5-	577 ± 1	561 ± 34	-
	A-91-1	6:12	5.66	22.9	410	78	0.2	0.09	256 ± 1	316 ± 138	204
	A-92-1	6:22	5.52	22.8	580	132	0.1	0.04	238 ± 1	276 ± 84	204
	A-93-1	6:31	5.49	22.8	1089	243	0.6	0.12	247 ± ?	226 ± ?	204

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