

UWA DATA LOG: SHRIMP ZIRCON U-Pb

Date: 24-25/10/98 UWA Mount No.: 98-69 Whose sample?: C. Adams/M. Barley Operator(s): McN AP

Indicate any change to the following:

	196	204	bkg	206	207	208	238	248	254	270
Precambrian Count time (secs):	2	<u>107</u>	<u>107</u>	¹⁵ <u>10/20*</u>	⁷ <u>30/10*</u>	<u>105</u>	<u>53</u>	<u>52</u>	2	-
Phanerozoic* Delay time (secs):	8	3	1	2	1	1	3	2	2	-

expected 196-204 = 8.170 amu expected 204-bkg = 0.045 amu Dead-time = 32 nanosecs

actual 196-204 = 8.167 actual 204-bkg = 0.045 expected resolution = >4200

actual 206-207 = 1.99999 actual 206-208 = 1.99999 actual resolution = 5734

Primary = 2.4 nA PESABM = 3.8 pA actual Primary: PESABM (= 50:1) = 63.16

Raster time (mins): 1 Raster aperture (microns): 120 No. of scans: 4

Comments: B = R21286 (CJA: MUNA) $n_s = 20$ % error on Stds = 1.26 (Actual 1.61, 0% = 1.19) use this

1° extremely stable (no rejs = 7/8 = 1.78)

NB: 206-207 separaⁿ → 0.998 from 8.74-1

Rejection over-ride	Sample/ Std ID	Time - printout	UO/U Kcps	196 Kcps	206 cps	U ppm	204Pb ppb	f ₂₀₆ %	Age ± 1σ (Ma) 206/238	Age ± 1σ (Ma) 207/206	Offsets OK?
	sl 869-13-1	11:23	6.46	15.1	1662	220	1.6	0.13	571 ± 2	571 ± 53	✓
	sl 13-2	11:35	6.47	14.8	1657	229	-0.5	-	557 ± 2	605 ± 42	✓
	sl 13-3	11:45	6.60	14.5	1673	220	1.2	0.11	560 ± 2	546 ± 53	✓
	uB. 1-1	11:59	6.45	15.4	524	69	0.9	0.24	571 ± 3	528 ± 113	✓
	uB. 2-1	12:10	6.71	14.9	302	45	1.8	0.96	458 ± 4	200 ± 0	✓
	uB. 3-1	12:21	6.53	14.7	424	58	0.4	0.14	545 ± ?	540 ± ?	✓
	uB. 4-1	12:31	6.66	14.5	246	144	-0.6	-	127 ± 0	495 ± 124	✓
	sl 13-4	12:42	6.53	15.0	1639	221	-0.3	-	550 ± 2	532 ± 43	✓
	uB. 5-1	12:52	6.57	14.6	516	165	1.7	0.49	236 ± 1	68 ± ?	✓
	uB. 6-1	13:03	6.61	14.4	379	196	0.3	0.10	149 ± ?	0 ± ?	✓
	uB. 7-1	13:14	6.67	15.0	738	436	-0.7	-	122 ± 1	122 ± 77	✓

Rejection over-ride	Sample/ Std ID	Time - printout	UO/U Kcps	196 Kcps	206 cps	U ppm	²⁰⁴ Pb ppb	f ₂₀₆ %	Age ±1σ (Ma) 206/238	207/206	Offsets OK?
	uB.8-1	13:25	6.59	14.9	193	60	0.6	0.36	237 ± 1	0 ± ?	✓
	uB.9-1	13:35	6.48	14.6	2148	78	0.3	0.01	1916 ± 10	1921 ± 22	✓
	uB.10-1	13:45	6.94	14.5	203	82	0.2	0.21	162 ± 1	277 ± 203	✓
	sl.13-5	13:56	6.58	14.7	1700	220	0.3	0.03	559 ± 2	577 ± 50	✓
	uB.11-1	14:07	6.73	14.8	242	68	-0.7	-	250 ± 1	168 ± 134	✓
	uB.12-1	14:17	6.37	14.9	1382	119	-1.0	-	908 ± 4	727 ± 42	✓
	uB.13-1	14:27	6.63	14.7	946	268	-1.4	-	261 ± 1	286 ± 64	✓
	uB.14-1	14:37	6.68	14.5	186	55	2.0	1.27	246 ± 2	0	✓
	uB.15-1	14:49	6.77	14.6	220	57	-1.1	-	267 ± 1	159 ± 141	✓
	uB.16-1	15:00	6.39	14.7	105	38	1.8	1.82	222 ± 3	0	✓
	sl.13-6	15:10	6.55	15.2	1663	218	-0.4	-	550 ± 2	553 ± 43	✓
	uB.17-1	15:22	6.76	14.4	300	82	0.	0.01	259 ± ?	79 ± ?	✓
	uB.18-1	15:32	6.80	14.6	718	39	1.5	0.31	1173 ± 9	970 ± 81	✓
	uB.19-1	15:42	6.60	14.9	199	57	-0.2	-	258 ± 1	422 ± 135	✓
	uB.20-1	15:52	6.45	14.6	2948	189	0.3	0.15	1172 ± ?	1180 ± ?	✓
	uB.21-1	16:03	6.61	14.9	415	86	1.2	0.45	348 ± 2	281 ± 141	✓
	uB.22-1	16:13	6.34	14.9	907	138	-0.9	-	536 ± 2	588 ± 58	✓
	sl.13-7	16:24	6.52	15.1	1698	224	-1.1	-	560 ± 2	605 ± 42	✓
	uB.23-1	16:34	6.51	15.2	142	31	-0.2	-	339 ± 2	366 ± 163	✓
	uB.24-1	16:45	6.57	15.1	64	42	-0.5	-	113 ± 1	0	✓
	uB.25-1	16:55	6.39	14.9	376	118	-0.2	-	257 ± 1	288 ± 102	✓
	uB.26-1	17:05	6.63	14.9	442	30	-0.1	-	1006 ± 8	1078 ± 68	✓
	uB.27-1	17:15	6.46	15.0	98	31	-1.5	-	245 ± 1	371 ± 197	✓
	uB.28-1	17:25	6.73	14.8	886	133	0.5	0.09	461 ± ?	420 ± ?	✓
	sl.13B	17:35	6.54	14.9	2640	216	-1.4	-	563 ± 2	582 ± 43	✓

Rejection over-ride	Sample/ Std ID	Time - printout	UO/U Kcps	196 cps	206 cps	U ppm	204Pb ppb	f206 %	Age ±1σ (Ma) 206/238 207/206		Offsets OK?
	uB.29-1	17:45	6.58	15.2	202	66	3.3	1.95	219 ± 2	0	✓
	uB.30-1	17:55	6.77	14.5	105	64	-1.1	-	116 ± ?	56 ?	✓
	uB.31-1	18:06	6.61	14.9	211	61	-1.0	-	254 ± 1	127 ± 134	✓
	uB.32-1	18:16	6.49	14.5	802	99	-1.1	-	630 ± 3	600 ± 61	✓
	uB.33-1	18:27	6.84	14.8	546	174	1.5	0.47	209 ± 1	26 ± ?	✓
	uB.34-1	18:37	6.55	14.6	146	47	-0.6	-	240 ± 1	0	✓
del from 1 uo. (drop in 2" - sharp)	sl. 14-1	18:48	6.52	15.5	1703	222	1.3	0.12	552 ± 2	547 ± 59	✓
	uB.35-1	19:00	6.54	15.2	585	97	-0.4	-	441 ± 2	582 ± 72	✓
	uB.36-1	19:10	6.61	15.0	289	88	1.2	0.50	238 ± 1	0	✓
	uB.37-1	19:21	6.65	14.6	580	84	0.1	0.03	499 ± ?	598 ± ?	✓
	uB.38-1	19:31	6.74	15.0	163	43	0.3	0.33	258 ± 2	411 ± 319	✓
	uB.39-1	19:41	6.59	15.3	512	519	0.1	0.004	687 ± ?	515 ± ?	✓
	uB.40-1	19:51	6.58	14.6	838	274	0.2	0.004	233 ± 1	275 ± 70	✓
	sl. 14-2	20:04	6.58	15.4	1711	220	-1.3	-	546 ± 1	506 ± 42	✓
	uB.41-1	20:14	6.61	15.2	133	34	0.2	0.20	277 ± ?	149 ± ?	✓
	uB.42-1	20:24	6.70	15.3	177	50	-0.7	-	244 ± 1	238 ± 153	✓
	uB.43-1	20:35	6.81	15.0	185	50	0.6	0.58	243 ± 2	338 ± 272	✓
	uB.44-1	20:45	6.64	15.3	259	73	1.0	0.62	248 ± 2	54 ± ?	✓
	uB.45-1	20:56	6.68	15.1	241	70	1.4	0.69	238 ± 1	7 ± ?	✓
	uB.46-1	20:06	6.48	15.4	122	30	0.1	0.12	299 ± 2	214 ± 195	✓
	sl. 15-1	21:17	6.44	15.8	1702	221	-0.6	-	565 ± 2	528 ± 43	✓
	uB.47-1	21:28	6.64	15.2	1065	91	-0.5	-	796 ± 4	1034 ± 43	✓
	uB.48-1	21:39	6.43	15.2	2498	200	0.2	0.009	928 ± 3	957 ± 30	✓
	uB.49-1	21:49	6.64	14.9	619	187	0.2	0.05	240 ± ?	189 ± ?	✓
	uB.50-1	21:59	6.62	15.0	143	89	-0.6	-	118 ± 0	0	✓

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Rejection over-ride	Sample/ Std ID	Time - printout	UO/U Kcps	196 cps	206 cps	U ppm	204Pb ppb	f206 %	Age $\pm 1\sigma$ (Ma)		Offsets OK?
									206/238	207/206	
	uB.51-1	22:09	6.45	14.8	10262	254	-0.7	-	2657 \pm 8	2785 \pm 7	✓
	uB.52-1	22:19	6.68	15.1	782	233	-0.4	-	236 \pm 1	214 \pm 72	✓
	6L 15-2	22:29	6.68	15.2	1740	211	0.8	0.08	559 \pm 2	620 \pm 67	✓
	uB.53-1	22:40	6.51	15.2	86	27	0.6	1.09	241 \pm 3	58 \pm ?	✓
	uB.54-1	22:51	6.60	15.5	76	45	0.2	0.49	119 \pm 1	51 \pm ?	✓
	uB.55-1	23:01	6.41	15.7	2376	162	-1.6	-	1054 \pm 4	1075 \pm 29	✓
	uB.56-1	23:11	6.71	15.1	126	69	-0.2	-	128 \pm 1	166 \pm 0	✓
	uB.57-1	23:21	6.74	15.3	578	291	-1.0	-	136 \pm 1	0	✓
	uB.58-1	23:32	6.85	14.9	387	73	-0.1	-	349 \pm 1	272 \pm 101	✓
	6B 15-3	23:44	6.44	16.0	1691	220	1.1	0.10	553 \pm 2	427 \pm 56	✓
	uB.59-1	23:55	6.47	15.5	988	126	2.0	0.29	573 \pm 2	566 \pm 73	✓
	uB.60-1	24:06	6.54	15.3	930	129	-0.9	-	520 \pm 2	465 \pm 59	✓
	uB.61-1	24:17	6.75	14.8	1988	531	0.6	0.05	259 \pm 1	207 \pm 63	✓
	uB.62-1	24:27	6.58	15.3	1083	53	-1.6	-	138 \pm 9	1372 \pm 39	✓
	uB.63-1	24:37	6.66	14.8	236	95	0.1	0.07	181 \pm ?	0	✓
	uB.64-1	24:47	6.59	14.9	9058	307	-0.4	-	1904 \pm 5	1899 \pm 11	✓
	SL 15-4	24:57	6.46	15.5	1650	219	-1.0	-	555 \pm 2	570 \pm 43	✓
	uB.65-1	1:09	6.62	14.8	84	53	1.3	1.89	114 \pm 1	0	✓
	uB.66-1	1:20	6.71	15.2	503	140	-1.9	-	247 \pm 1	41 \pm 88	✓
	uB.67-1	1:30	6.54	15.0	372	113	2.0	0.61	247 \pm 1	0	✓
	uB.68-1	1:40	6.24	14.6	3752	169	1.6	0.05	1757 \pm 7	1785 \pm 18	✓
	uB.69-1	1:52	6.30	15.6	180	30	0.3	0.22	470 \pm 4	570 \pm 217	✓
	uB.70-1	2:01	6.31	15.4	1345	98	-2.1	-	1056 \pm 5	1126 \pm 38	✓
	SL 15-5	2:12	6.63	15.4	1746	215	-0.2	-	561 \pm 2	468 \pm 43	✓
	uB.71-1	2:23	6.14	14.8	271	75	1.4	0.62	332 \pm 2	139 \pm 0	✓

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Rejection over-ride	Sample/ Std ID	Time - printout	UO/U	196 Kcps	206 cps	U ppm	²⁰⁴ Pb ppb	f ²⁰⁶ %	Age ±1σ (Ma) 206/238	207/206	Offsets OK?
	uB.72-1	2:33	6.19	15.5	326	97	1.3	0.54	287 ± 2	231 ± ?	✓
	uB.73-1	2:44	6.34	15.9	84	23	1.4	1.82	282 ± 2	0	✓
	uB.74-1	2:54	6.82	15.2	180	48	0.6	0.41	244 ± 2	0	✓ 0.007
	uB.75-1	3:04	6.40	15.7	208	139	0.8	0.59	116 ± 1	94 ± ?	✓
	uB.76-1	3:14	6.54	15.6	495	66	1.2	0.36	531 ± 3	465 ± 125	✓
sl	sl.12-1	3:25	6.49	15.6	1786	229	1.4	0.12	564 ± 2	553 ± 53	✓
	uB.77-1	3:36	5.99	15.5	210	82	-0.3	-	247 ± 1	268 ± 139	✓ 116 0.008
	uB.78-1	3:46	6.15	15.7	271	40	-0.3	-	573 ± 4	664 ± 104	✓
	uB.79-1	4:02	6.27	15.9	418	139	0.8	0.28	243 ± 1	150 ± ?	✓
	uB.80-1	4:13	6.24	15.7	45	31	1.0	2.30	120 ± 3	0	✓
	uB.81-1	4:23	6.08	15.4	885	75	1.8	0.24	1025 ± 6	1025 ± 86	✓
	uB.82-1	4:32	6.21	15.5	335	89	3.3	0.99	316 ± 2	0	✓
sl	sl.12-2	4:43	6.48	16.0	1758	223	0.9	0.08	559 ± 2	504 ± 53	✓
	uB.83-1	4:53	6.57	16.0	177	50	1.8	1.22	246 ± 2	0	✓
	uB.84-1	5:03	6.43	15.9	125	53	-0.2	-	177 ± 1	358 ± 174	✓
	uB.85-1	5:13	6.53	15.5	1144	331	0.2	0.03	252 ± 1	265 ± 62	✓
	uB.86-1	5:23	6.70	15.4	355	100	1.3	0.62	240 ± 1	173 ± 0	✓
	uB.87-1	5:34	6.64	15.8	71	4	-0.3	-	1117 ± 24	805 ± 176	✓
	uB.88-1	5:44	6.51	15.7	306	91	0.8	0.41	245 ± 1	157 ± 157	✓
sl	sl.10-1	5:56	6.43	16.2	1789	221	0.3	0.03	576 ± 2	515 ± 50	✓
	uB.89-1	6:06	6.47	15.8	68	40	1.9	3.29	123 ± 3	0	✓
	uB.90-1	6:16	6.63	15.5	781	167	1.8	0.28	323 ± 1	0	✓
	uB.91-1	6:25	6.62	15.5	993	132	0.3	0.04	518 ± 2	508 ± 62	✓
	uB.92-1	6:35	6.40	15.9	170	52	1.2	0.07	244 ± 2	10 ± ?	✓
	uB.93-1	6:45	6.58	16.1	140	40	0.1	0.14	241 ± ?	525 ± ?	✓

