UWA DATA LOG: SHRIMP ZIRCON U-Pb

Date	UWA Mount No.	Whose sample?	Operator(s)
23/5/96	96-21	MEB	IF + A

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):	7	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 = 0.041 expected resolution = >4200

after ① actual 206-207 = 1.0000 actual 206-208 = 2.0000 actual resolution = 5100

Primary = 2.3 nA PESABM = 35 pA actual Primary : PESABM (≈ 50:1) = 66

Raster time (mins): 3 Raster aperture (microns): 120 No. of scans: 6

Comments: Electron multiplier seems noisy. Getting ~1 ct/~~sec~~ on baselines.

① Adjusted 207 and 208 by + 8 mmu. ; adjusted 1st

3 min raster. NB counts of 10 for 204 – attributed to noise!

Rejection over-ride	Sample/ Std ID	Time - printout	U/O/U	196 kcps	206 cps	U ppm	^{204}Pb ppb	f_{206} %	Age ±1σ (Ma) 206/238	Age ±1σ (Ma) 207/206	Corr.
0	sl621.4-1	11:52	6.55	14.3	1608	–	-ve	–	–	590	–
0,206	4-2	12:18	6.45	14.5	1595	–	3.6	.31	–	489	204
206, 207, 254	4-3	12:41	6.45	14.1	1568	223	-ve	–	570	616	–
196, ~~206~~, 207, 248, 208, 238, 254	u621B.1-1	13:03	6.21	15.5	4366	103	8.6	.18	2917	3292	204
~~196, 207~~, 208, 238, ~~248~~, 254	u6216.2-1	13.29	6.92	14.26	6171	151.3	62	1.2	2287	3259	204
196, ~~207~~, 248 254	u62163-1	13.56	5.98	16.96	3440	96.1	28.2	0.73	2596	3234	204
196, 206	~~sl6214-4~~	14:21	6.32	14.87	~~1555~~	230	~~-ve~~	–	~~556~~	566	–
① 204, 0 196, 207, 208, 206, 207 238, 248, 254	u B.4-1	14:51	6.39	16.0	4747	92	7.7	.17	3106	3300	204
196, ~~204~~, ~~bg~~, 208, 238, ~~248, 254~~	B.5-1	15:11	6.51	16.6	9961	174	27.	.31	3110	3224	204
238 ~~206, 207, 208~~	B.6-1	15:40	6.70	15.8	6200	99	3.4	.07	3250	3306	204
196, 248, 254	B.7-1	16:02	6.40	16.0	6317	119	3.9	.07	3150	3252	204

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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	Age ±1σ (Ma) 207/206	Corr.
206, 207, 238, 254	sl621.4-5	16:21	6.45	15.8	1711	223	-ve	-	557	601	-
196, 206, 207, 208, 248	B.8-1	16:41	6.48	16.1	6174	114	20.	0.35	3089	3281	204
196, 206, 248, 254 207, 208, 238	B.9-1	17:00	6.57	16.4	6818	128	45.	.76	2886	3253	204
196, 206, 208, 248	B.10-1	17:20	6.48	15.9	5752	89	9.3	.19	3287	3293	204
196, 206 208 238, 248, 254	B.11-1	17:42	6.48	15.8	4151	93	2.02	.04	3269	3322	204
196, 206, 208, 238, 254	B.12-1	18:02	6.49	14.8	9196	174	1.1	.01	3230	3322	204
del 1st 248 196, 206, 208, 248	sl 4-6	18:22	6.47	15.5	1726	220	-ve	-	569	579	-
196, 206, 208 254, 238	B.13-1	18:42	6.41	15.3	6355	133	32.	.50	2988	3272	204
196, 206, 207 208, 238, 254	B14-1	19:21	6.51	15.7	8271	143	5.7	0.07	3294±8	3278±3	204
196, 207, 208, 254	B15-1	19:41	6.40	15.7	3596	68.8	5.6	0.16	3154	3313±6	204
206, 208, 238	B16-1	20:00	6.18	16.4	6608	156	25.1	0.37	2779	3296±4	204
206, 206, 207, 238, 208, 248 254	B17-1	20:20	6.47	15.2	6299	122	3.7	0.06	3125	3328±4	204
196	sl 4-7	20:44	6.38	15.5	1678	227	-ve	0.01	564	598	208
196, 238, 248	B18-1	21:06	6.32	16.2	3429	75.3	9.2	0.27	2846	3275±6	204
248	B19-1	21:27	6.59	15.9	8159	153	28.4	0.40	2963	3209±4	204
196, 208, 238	B20-1	21:49	6.78	15.3	7722	125	2.8	0.04	3209	3318±4	204
196, 206, 207, 248, 254	B21-1	22:10	6.41	16.1	4101	74.6	7.7	0.20	3218	3317±6	204
196, 206	sl 4-8	22:29	6.45	15.6	1692	223	0.6	0.03	557±1	608	208
196, 238, 254	B22-1	22:59	6.55	15.1	5026	98.7	5.3	0.11	3010	3294±3	204
196, 248	B23-1	23:18	6.47	15.0	5408	99.2	-ve	-ve	3303	3319±4	204
-	B24-1	23:38	6.62	15.5	5052	82.4	11.6	0.25	3338	3316±5	204
196, 207, 238	B25-1	24:02	6.77	16.6	3699	101	6.5	0.22	1958	3323±6	204
196, 206, 254, 254	sl 2-1	24:23	6.55	15.4	1645	207	3.4	0.04	562±1	639	208
196, 207, 238, 254	B26-1	24:43	6.30	15.9	5698	126	33.9	0.58	2898	3283±5	204
196, 208, 207	B27-1	1:07	6.64	14.9	6195	104	-ve	-	3339	3310±4	-

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Rejection over-ride	Sample/ Std ID	Time - printout	UO/U	196 cps	206 cps	U ppm	^{204}Pb ppb	f_{206} %	Age ±1σ (Ma) 206/238	207/206	Corr.
196, 204, 207, 238, 254	A 1-1	1:28	6.61	15.5	5371	88.4	4.3	0.09	3320	3284 ±5	204
196, 207, 208, 238, 248, 254	A 2-1	1:49	6.56	15.2	3963	64.7	6.4	0.17	3458	3257 ± 6	204
196, 206, 207	sl 2-2	2:08	6.69	14.8	1816	219	-ve	-	572 ± 1	538	-
196, 207, 208	A 3-1	2:28	6.53	15.2	4612	81.2	0.6	0.01	3304	3314 ± 4	204 ?
196, 207, 208, 238, 248, 254	A 4-1	2:52	6.60	15.4	4616	81.5	1.9	0.05	3170	3327 ± 6	204
196, 206, 207, 208 238, 248, 254	A 5-1	3:11	6.67	14.9	3265	54.0	-ve	-	3350	3326 ± 5	204
206, 207, 208	A 6-1	3:34	6.85	14.4	5017	78.8	18.6	0.42	3352	3323 ± 5	204 ?
196, 248, 254	A 7-1	3:53	6.53	15.0	4613	82.4	4.4	0.10	3302	3325 ± 5	204
196, 206, 238	sl 2-3	4:12	6.44	15.1	1683	222	-	-	578 ± 1	545	~~2~~
196	A 8-1	4:31	6.57	15.0	3679	64.6	4.0	0.11	3298	3322 ± 6	204
196, 0, 206, 207	A 9-1	4:56	6.95	15.3	5524	90.6	17.3	0.41	2988	3161 ± 6	204
196, 206, 208, 238	A 10-1	5:16	6.58	15.0	3848	67.3	-ve	-	3290	3317 ± 5	204
196, 206, 248, 254	A 11-1	5:36	6.48	15.0	3873	71.6	0.3	0.01	3284	3309 ± 6	204 ?
206, 207, 208, 254	sl 2-4	5:55	6.55	15.0	1673	217	1.8	0.16	563 ± 2	521	204
196, 206, 248, 254	A 12-1	6:15	6.54	15.0	3021	56.1	-ve	-	3255	3328 ± 6	-
196, 206, 238	A 13-1	6:36	6.34	14.9	3613	73.2	-ve	-	3231	3332 ± 5	- ? no ?
196, 206, 207	A 14-1	6:56	6.57	14.7	3715	66.7	4.2	0.12	3285	3306 ± 6	204
206, 207, 208, 248, 254	A 15-1	7:17	6.53	13.8	2938	58.4	2.1	0.07	3280	3334 ± 6	204
196, 206, 238	sl 2-5	7:38	6.56	14.9	1741	224	-ve	0.05	567 ± 1	556	208
196, 208.	A 15-2	7:57	6.39	14.3	2369	46.6	2.8	0.11	3337	3328 ± 8	204
196, 206, 207, 208, 248.	A 16-1	8:21	6.49	14.5	2916	54.6	0.5	0.02	3318	3325 ± 6	204
206	sl 3-1	8:41	6.48	14.6	1684	228	-ve	-	572 ± 1	591	-