UWA DATA LOG: SHRIMP ZIRCON U-Pb

Date	UWA Mount No.	Whose sample?	Operator(s)
18/1/97	97-35	YUMIN	MeN + YQ

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):	7/8	3	1	2	1	1	3	2	2

expected 196-204 = 8.170 amu expected 204-bkg = 0.040 ~~0~~ 5 amu Dead-time = 32 nanosecs

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

actual 206-207 = 1.000 actual 206-208 = 1.999 actual resolution = 4678

Primary = 3.6 nA PESABM = 45 pA actual Primary : PESABM (≈ 50:1) = 80

Raster time (mins): 1 Raster aperture (microns): 100 No. of scans: 5

Comments: C = DP-4 (NB: Grains 1-3 done on 31/12/97)

NB: 1° steady decrease from 10am

B = YEY-8

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.
204 206 238 248	sl.7-2	9:59	6.44	15.5	1667	220	-0.1	—	572±1	618±32	—
196 206 238 254	sl.7-3	10:13	6.54	14.7	1743	227	1.8	.15	583±1	468±41	204
206 238 248 254	c.4a-1	10:27	6.72	12.9	336	65.3	0.8	.13	415±1	342±86	208
206	c.4b-1	10:39	6.56	14.7	496	91.3	0.6	.05	414±1	283±75	"
✓	sl.7-4	10:53	6.57	14.5	1702	221	0.3	.03	585±1	584±36	204
✓	c.4b-2	11:06	6.56	14.3	321	62.9	1.6	.04	400±1	456±85	208
196 254	c.4a-2	11:19	6.56	13.8	532	108	0.3	.07	399±1	416±112	204
196 208	c.5-1	11:44	6.34	12.8	152	36.8	0.4	.08	403±1	257±146	208
206 238 254	sl.7-5	11:58	6.70	12.9	1559	217	-0.7	—	580±1	559±34	—
196 204 254	c.6-1	12:13	6.64	12.7	214	43.8	~~-0.7~~	.42	413±1	211±123	208
196 208	c.8-1	12:27	6.67	12.6	103	22.4	1.1	.19	391±1	339±159	"

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Rejection over-ride	Sample/ Std ID	Time - printout	UO/U	196 K cps	206 cps	U ppm	^{204}Pb ppb	f_{206} %	Age ±1σ (Ma) 206/238	Age ±1σ (Ma) 207/206	Corr.	10 (nA
196 206 204 238 254	C.9-1	12:40	6.16	12.0 ~~228~~	228	61.5	17.5	4.75	399±1	213±189	208	
196 238 254	sl.7-6	12:54	6.62	11.7	1383	225	0.2	.09	567±1	585±36	"	
196 206 238	C.9-2	13:10	6.56	11.1	665	159	2.8	.46	419±1	266±97	204	
206 254	C.10-1	13:23	7.04	10.8	616	133	4.1	.75	388±1	398±67	208	2.7
✓	C.11-1	13:38	6.68	9.8	141	37.8	2.4	.06	400±1	730±116	"	2.6
206 238 204 254	sl.7-7	13:51	6.73	10.5	1313	219	-0.8	—	585±1	580±36	—	
254	C.13-1	14:05	6.59	9.7	262	78	1.0	.36	380±1	250±140	204	2.6
✓	C.16-1	14:19	6.77	10.4	255	63	1.1	.50	396±2	250±211	"	2.6
206 204	C.16-2	14:32	6.81	10.6	556	134	2.4	.40	392±1	345±74	208	2.6
254	C.16-3	14:45	6.82	10.5	421	103	1.3	.36	388±1	301±130	204	2.6
196 238 254	sl.7-8	14:58	7.04	9.9	1280	197	0.2	.03	591±1	544±38	208	
✓	C.17-1	15:13	6.67	10.2	350	97	2.8	.84	375±1	246±158	204	2.5
206 238	C.17-2	15:26	6.58	10.3	263	71	0.1	.11	401±1	321±98	208	
254 196 204 238	C.18-1	15:40	6.97	8.1	~~215~~ 220	80	-0.5	.50	308±1	352±113	"	2.5
196 206 238	C.18-2	15:53	6.92	10.3	1020	229	17.6	1.34	408±1	576±51	"	2.5
254	sl.8-1	16:07	6.73	10.2	1206	209	0.4	.04	577±1	575±56	204	2.5
✓	C.19-1	16:22	6.68	10.3	132	34.5	0.4	.40	393±1	370±141	208	2.5
208	C.22-1	16:36	6.88	10.3	283	67.6	1.5	.61	394±1	113±141?	204	2.5
196	C.23-1	16:49	6.77	10.7	186	44.9	-0.2	.18	394±1	469±109	208	
208 254	C.24-1	17:04	6.52	10.4	306	85.2	3.3	.63	395±1	462±90	"	2.5
206 254	sl.8-2	17:17	6.80	10.3	1295	214	0.8	.01	584±1	629±37	"	2.5
206 208	C.24-2	17:31	6.72	10.4	2175	555	5.6	.17	395±1	418±34	"	
196 254 238	C.24-3	17:44	6.61	10.1	1103	298	3.5	.04	402±1	446±45	"	2.5
254	C.24-4	17:58	6.71	10.3	101	24.7	-0.5	—	413±1	481±139	—	2.5
196 208	C.25-1	18:11	6.87	10.4	430	99	0.0	.24	406±1	227±88	208	2.5

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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	Corr.	I0 (mA)
	S1.8-3	18:25	6.65	10.8	1282	221	0.0	.01	570±1	502±39	208	
	C.35-1	18:40	6.98	10.7	515	112	-0.6		402±1	475±61		2.5
	C.35-2	18:54	6.75	10.1	86.	22	1.7	.35	401±1	80±179	208	"
	C.43-1	19:13	7.04	10.3	939	203	-1.0		408±04	351±46		"
(31)	C45-1	19:31	6.59	10.5	80.1	20.	-1.4	.09	411±2	302±176	208	2.4
(11)	S1.8-4	19:48	6.94	10.4	1307	197	-0.1	0	598±1	531±38	208	2.4
	C33-1	20:10	6.86	10.2	69.	16	-0.2	.4	407±2	292±24	208	2.4
	C38-1	20:30	6.55	10.6	196	53	1.1	.14	394±1	303±115	208	2.5
(34)	C38-2	20:45	7.07	10.3	171	37	-0.7		402±1	367±118		2.4
(35)	C40-1	21:06	6.76	9.8	78	20	-0.8	.16	406±2	553±164	208	2.2
(12)	S1.8-5	21:24	6.77	9.9	1227	217	0.9	.08	575±1		208	2.3
(1)	B3-1	21:43	6.9	10.5	76	41	-0.6	.13	175±1	168±254	208	2.4
	B5-1	22.	6.92	10.4	1561	290	1.5	.12	182±2		208	2.5
	B6-1	22:15	7.08	10.4	1973	946	-1.6		183±0.1	132±35		2.5
(4)	B8-1	22:30	6.90	10.4	991	586	0.8		174±0.3			
lost X.Y (13)	S1.8-6	22:46	6.75	10.9	1366	216	-0.6	1.0	587±1	565±37	208	2.4
(1)	B9-1	23:18	6.78	11.	2657	107	-0.4		2018±7	2459±11		2.5
	B10-1	23:34	6.98	10.7	1385	676	-1.5		182±0.2	134±42		2.5
	B11-1	23:50	7.04	10.5	1311	625	0.2		186±0.2	75±44		2.5
(3)	B12-1	0:04	7.08	10.4	2853	1344	11.5		187±0.1	323±27		2.5
(14)	S1.8-7	0:22	6.53	10.7	1251	224	0.3		583±1	573±37		2.4
?	B13-1	0:40	5.92	8.4	43	348	16.9	17.1	42±1	0	208	2.4
	B14-1	0:55	6.79	10.3	1079	636	65.	7.2	157±03	0	208	2.5
	B15-1	1:10	6.69	10.4	632	354	0.5	.09	184±0.4	242±60	208	2.5
(15)	B17-1	1:28	7.04	9.6	882	453	0.3		188±0.2	240±51		2.5

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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.	
(15) 196 206	S18-8	1:42	6.77	10.5 ~~[illegible]~~	1274 ~~[illegible]~~	213 ~~[illegible]~~	1.5	.01	575±1	582±38	208	2.2
(13) 245 196	B18-1	2:00	7.19	9.6	992	505	7.1	.06	178±1	403±161	208	2.2
196 206 207 238	B19-1	2:30	6.75	9.7	1774	1017	0.	—	189±0.2	160±36	—	2.2
(1) 206 238	B19a-1	2:44	7.29	9.5	805	407	4.7	3.1	183±1	0	208	
196 206	B20-1	2:59	7.08	9.8	2346	1185	3.3	—	183±0.1	255±31	—	
(17) 206	B21-1	3:14	7.16	9.5	4329	1901	311	9.1	193±0.2	260±59	208	
206 208 (16)	S18-9	3:32	6.78	9.4	1117	218	0.3	.002	545±1	586±40	208	
(18) 206 208	B22-1	3:48	7.08	9.2	2407	1317	-0.7	—	182±0.1	148±31	~~208~~ —	
196 207 250	B23-1	4:03	7.05	8.8	2856	1610	19.5	—	185±0.1	433±26	—	
250	B24a	4:20	7.07	8.3	768	493	0.8	—	172±0.2	197±55	—	
(21) 196	B24-1	4:37	6.89	8.1	312	207	7.2	2.9	178±1	0	208	2.0
196 254 (17)	S1 1-1	5:39	6.95	8.1	922	202	0.9	.04	556±1	556±44	208	1.8
(22) 196 238 248	B26-1	5:57	6.72	6.9	220	207	4.1	0.6	164±1	0	208	1.8
248 238	B26-2	6:11	6.85	7.4	376	247	1.8	—	172±0.3	183±80	—	1.8
196 206 238	B27-1	6:26	7.	6.9	612	491	1.6	—	171±0.2	316±59	—	1.8
206 207	B28-1	6:41	6.74	6.98	1188	60	1.8	—	2482±14	2532±18	—	1.8
(21) 196 238	B29-1	6:56	6.64	7.3	565	512	2.3	—	167±0.3	227±64	—	1.8
206 208 248 254	S1 1-2	7:11	6.7	7.4	853	217	3.2	.04	551±1	462±49	208	1.8
(27) 238 196 206	B30-1	7:29	6.88	6.9	1281	986	2.8	—	186±0.2	251±42	~~208~~ —	1.8
206 208 238	B31-1	7:44	6.79 ~~7.3~~	7.3	552	431	2.8	—	180±0.3	208±65	—	1.8
208 238	B32-1	7:59	6.87	7.	1572	1247	16.4	—	179±0.2	404±35	—	1.8
196 206 238	B34-1	8:13	6.69	6.7	1107	1004	4.6	—	176±0.2	184±45	—	1.8
(31) 196 206 238 248	B36-1	8:28	6.4	6.1	159	141	10.5	3.5	218±1	0	208	1.8
254	S1 1-3	8:47	6.8	7.3	880	208	1.3	—	574±1	495±46	—	1.8

Dy/U 1.84496 1σ 2.5 %

UO/U 6.71 [illegible]

Th/U 0.221715

n = 19