

UWA DATA LOG: SHRIMP ZIRCON U-Pb

Date: 6/5/96 UWA Mount No.: 96-19 Whose sample?: IF + YQ + April Operator(s): IF + YQ + 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): 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 = 8.168 actual 204-bkg = 0.042 expected resolution = >4200
 actual 206-207 = 1.000 actual 206-208 = 1.000 actual resolution = 4883

Primary = 2.6 nA PESABM = 4.0 pA actual Primary : PESABM (= 50:1) = 65
 Raster time (mins): 2 Raster aperture (microns): 100 No. of scans: 6

Comments: ① 2nd beam dropout - not observed, cause unknown. Reject 1 scan (parts of 2 scans).
 ② 1^o drifting / dropped at 7.30 pm. → lower 1^o. but stable.

Rejection over-ride	Sample/ Std ID	Time - printout	UO/U	196 cps	206 cps	U ppm	204Pb ppb	f206 %	Age ±1σ (Ma) 206/238 207/206	Corr.
	196,206, 254	sl 10:48	6.02	17.7	1778	-	0.6	.06	-	550 208
	196,206,238 208	4-2 11:09	6.31	16.8	1834	206	1.1	.03	571	607 208
	204, 208, 248	6.19C.1-1 11:28	6.14	17.2	3643	79	12.	0.4	2639	2670 204
	204, 208, 248	2-1 11:50	6.13	18.0	3175	59	290.	11.	2645	2701 204
del 1 st ThO	196,206, 208, 248	sl 4-3 12:08	6.16	17.4	1868	216	1.3	.04	576	586 208
	204, 207, 208, 248	C.3-1 12:27	6.18	17.6	944	113	24.	4.2	524	387 204
	196,206,207	4-1 12:47	6.55	17.1	6120	108	14.	0.3	2678	2602 204
	196, 207, 248	5-1 13:10	6.26	17.7	504	24	15.	4.9	1190	1075 204
196→207 del 3 rd scans 2 nd beam dropout 208→254 del 2 nd scan		3-2 13:29	6.22	17.7	1757	203	27.	2.6	536 ? 582	204
very high 204	196,204, 206, 248	5-2 13:51	6.28	16.5	896	21	313.	47%	~1400 ~2200	204.
	254	sl 4-4 14:10	6.16	18.5	1931	213	2.1	.06	570	537 208

Rejection over-ride Sample/Std ID Time - printout UO/U 196 kcps 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	196 kcps	206 cps	U ppm	204Pb ppb	f206 %	Age ±1σ (Ma) 206/238 207/206	Corr.		
¹⁰ at 2.6	206, 248, 254	u A-1-1	14:30	6.24	18.	4381	69	4.0	.11	3191	3308	204
	196, 204, 206, 207, 238	A-2	14:47	6.18	20.	5253	105	75.	1.9	2443	3315	204
	196, 206, 207, 208, 238	2-1	15:05	6.23	17.8	1414	213	12.	.10	3279	3291	204
	196, 204, 206, 238, 248, 254	3-1	15:25	6.17	18.6	1214	195	52.	.50	3196	3341	204
	206	sl 4-5	15:43	6.28	17.2	1982	214	1.7	.10	584	544	208
	196, 206, 207, 254	4-1	16:03	5.97	19.7	4071	72	14.	0.4	3086	3307	204
	196, 207, 208, 248, 254	5-1	16:20	6.25	19.3	5816	104	18.8	.42	2697	3325	20 x
	196, 254	6-1	16:39	5.84	17.1	9124	249	32.6	.3	2532	3183	20 x
	196, 204, 206, 207, 208, 238, 254	7-1	16:57	6.03	19.1	5615	89	19.1	.4	3272	3321	20 0
Chart paper run out	204, 207, 208, 238, 248, 254	change in sheet 8-1	17:15	6.44	17.9	1344	176	6.6	.07	3316	3416	20 0
	196, 206, 254	sl 4-6	17:34	6.33	17.3	1940	205	1.6	.05	583	590	208
	196, 207, 248	9-1	17:54	6.3	17.1	6061	91	0.3	.01	3347	3311	204
	196, 206, 207, 208, 248, 254	10-1	18:13	6.01	17.4	2890	51.3	0	.002	3270	3302	20 0
10 drops	196, 254	11-1	18:35	6.09	18.7	4822	75.9	1.9	.05	3280	3316	20 0
10 drops during analysis	196, 206, 208, 238, 254	sl 4-7	19:00	6.22	13.1	1405	215	3.7	.3	560	588	208
	196, 206, 248	12-1	19:22	6.24	17.4	5236	89	11.2	0.25	3079	3321 ± 5	204
	196, 206,	sl 4-8	19:40	6.31	16.7	1903	212	1.0	0.10	577	544	208
10 drop from 2.6 → 1.4 AMP del last 3 scans	196 → 206 del last 2 scans 207 → 234	A. 13-1	19:59	6.21	13.9	4905	103	1.9	0.04	3138	3280	204.
10 at 2.3		sl 4-9.	halted									
	196, 238	sl 1-1	20:50	6.42	14.6	1567	198	0.9	0.16	551	527	208
	238	A 14-1	21:08	6.34	14.9	2517	44	0.8	0.04	3253	3312 ± 6	204
	196, 207	sl 1-2	21:27	6.15	15.6	1521	204	2.3	0.13	557	587	208
	206, 207, 208, 238, 254	A 15-1	21:46	6.72	15.1	2957	53	1.0	0.05	2762	3310 ± 6	204
	196, 206, 207, 208, 238, 248, 254	A 16-1	22:04	6.30	15.4	4771	81	0.1	0.00	3302	3310 ± 4	204
	196, 206, 207, 208, 238, 248, 254	A 17-1	22:21	6.42	15.0	6016	100	0.9	0.02	3285	3332 ± 4	204

Rejection over-ride	Sample/Std ID	Time - printout	UO/U	196 cps	206 cps	U ppm	204Pb ppb	f ₂₀₆ %	Age ±1σ (Ma) 206/238	207/206	Corr.
196, 206, 238	SL 1-3	22=40	6.44	15.1	1755	205	0.6	0.10	573	562	208
204, 206, 208, 248, 254	A 18-1	22=58	6.40	15.1	5329	91	2.8	0.06	3229	3304 ± 4	204
196, 208, 254	A 19-1	23=15	6.28	15.7	3003	67	7.6	0.28	2641	3308 ± 6	204
	A 20-1	23=				hi Pb	low				
196, 204, 206, 207, 208	A 21-1	23=36	6.37	15.4	6731	112	1.2	0.02	3271	3315 ± 4	204
196, 206, 207, 208, 248, 254	A 22-1	23=54	6.33	15.2	9200	157	1.2	0.01	3294	3323 ± 3	204
196, 206	SL 1-4	24=13	6.27	15.9	1699	210	2.1	0.11	559	594	208
196, 206, 208, 248, 254	A 22-2	24=30	6.25	15.3	3795	69	2.1	0.06	3237	3356 ± 5	204
[REDACTED SECTION]											
	A 23-1	24=48	6.26	15.5	3244	57	1.4	0.04	3265	3327 ± 5	204
	A 24-1					hi Pb	204				
	A 25-1					hi Pb	204				
196, 204, 254	A 26-1	1=14	6.10	15.0	3793	82	2.5	0.06	3032	3271 ± 5	204
196, 208, 238	A 27-1	1=32	6.56	15.4	2038	32	0.4	0.03	3178	3316 ± 7	204
196, 206	SL 1-5	1=49	6.12	16.4	1641	213	0.1	0.16	560	570	208
196	A 28-1	2=08	6.45	15.4	3171	50.5	0.8	0.03	3294	3320 ± 5	204
196, 206, 207	A 29-1	2=26	6.46	15.3	6330	116	3.8	0.07	2935	3307 ± 4	204
196	A 30-1	2=43	6.26	15.5	3641	65.7	1.9	0.05	3186	3315 ± 5	204
196	A 31-1	3=01	6.24	15.9	3584	65.4	11.9	0.36	3117	3327 ± 6	204
196, 204, 206	SL 1-6	3=19	6.44	15.4	1758	203	1.8	0.12	567	564	208
196, 207, 254	A 32-1	3=38	6.06	16.5	4826	90.1	5.3	0.11	3199	3324 ± 5	204
196, 207, 258	A 33-1	3=56	6.20	15.7	5162	98.7	7.7	0.16	3091	3309 ± 4	204
206, 207, 238, 258	A 34-1	4=14	6.26	15.9	6441	123	6.3	0.11	3005	3267 ± 4	204
196	A 35-1	4=32	6.33	16.0	1261	20.8	0.9	0.08	3245	3312 ± 9	204
196, 206, 208, 238	SL 1-7	4=50	6.25	16.5	1733	210	1.4	0.05	559	600	208

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Rejection over-ride	Sample/ Std ID	Time - printout	UO/U	196 cps	206 cps	U ppm	204Pb ppb	f206 %	Age ±1σ (Ma) 206/238	207/206	Corr.
	B 1-1						hi 204 Pb				
248, 254	B 2-1	5:13	6.27	15.7	6479	112	39.8	0.67	3247	3314 ± 5	204
196, 204, 206, 207, 238, 254	B 3-1 (rim)	5:31	7.02	13.5	17.1K	530	233	0.99	1670	2690 ± 5	204
	B 3-2 (core)	5:48	6.39	15.5	9119	242	240	3.08	2141	3142 ± 6	204
196, 207, 208, 254	B 4-1	6:11	6.09	16.9	4417	82.7	303	4.31	2919	3299 ± 12	204
196, 206, 207	SL 1-8	6:29	6.29	15.5	1632	206	1.5	0.14	557	571	208
196, 204, 206, 208, 208	B 5-1	6:50	6.27	16.3	4367	72.2	15.1	0.39	3260	3314 ± 5	204
196, 206, 207, 204, 238	B 6-1	7:07	6.27	16.3	4350	61.2	352	9.07	3446	3330 ± 12	204
196, 206, 207	B 7-1	7:25	6.92	15.9	4052	62.5	5.7	0.17	3195	3297 ± 5	204
196, 207, 208	B 8-1 (rim)	7:43	6.19	16.4	3055	52.8	9.1	0.32	3253	3313 ± 6	204
196, 208	B 8-2 (rim)	8:00	6.32	16.0	3864	65.2	22.1	0.64	3197	3313 ± 6	204
196, 206, 207, 238, 248	SL 3-1	8:19	6.52	15.4	1768	193	0.2	0.04	576	484	208
196, 207, 208, 238, 248, 254	B 9-1	8:37	6.40	16.7	7788	132	116	1.83	2937	3294 ± 5	204
del 1ST ThO. 196, 206, 254	SL 3-2	8:54	6.31	15.9	1678	200	1.3	0.07	567	554	208