

UWA DATA LOG: SHRIMP ZIRCON U-Pb

Date	UWA Mount No.	Whose sample?	Operator(s)
12/1/96	95-37	Yumin	IF + 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 ✓	5 ✓	5 ✓	2 ✓
	Delay time (secs):	7 ✓	3 ✓	1 ✓	2 ✓	1 ✓	1 ✓	3 ✓	2 ✓	2 ✓
Phanerozoic	Count time (secs):	2	10	10	10	10	10	5	5	2
	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 = 0.045 expected resolution = >4200
 Primary = 2.0 nA PESABM = 39 pA actual resolution = 4678
 expected Primary : PESABM ≈ 50:1 actual Primary : PESABM = 51

Comments:

Rejection over-ride	Sample/ Std ID	Time - printout	UO/U	196 kcps	206 cps	U ppm	204Pb ppb	f ₂₀₆ %	Age ±1σ (Ma)	206/238	207/206	Corr.
	sl 537.3-8	10:51	6.02	16	1600	—	2.0	0.1	—	598	208	
	3-9	11:13	6.04	15	1607	221	3.3	0.1	570	594	208	
	u B.1-1	11:39	6.86	17	1016	34	2.2	0.4	1392	2676	204	
	8.2-1											
	3-1	12:15	5.97	16	833	20	1.5	0.2	2783	2610	204	
	4-1	12:37	6.29	15	2564	59	2.1	0.1	2699	2634	204	
	sl 5-1	12:59	5.76	16	1463	222	5.9	0.5	583	647	208	
	u B.5-1	13:28	5.65	16	886	25	1.1	0.1	2760	2634	204	
	6-1	13:50	6.04	15	991	25	7.8	0.8	2684	2616	204	
	7-1	14:12	5.95	16	1472	40	10.	0.7	2564	2664	204	
	8-1	14:35	6.10	15	1130	27	2.4	0.2	2704	2647	204	

S/24x overlaps.

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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.

196 206 254	S/537.52	14:59	5.87	16	1524	224	0.4	0.1	583	576	208
196 206.7.8 238 ⁰ 254	U.B.9-1	15:22	5.99	15.3	453	13	4.7	.9	2841	2598±27	204
196 208 238 248	10-1	15:44	5.91	15.6	1491	38	2.1	.14	2733±12	2632±10	204
196 206.7.8 238 254	11-1	16:05	6.22	13.9	2488	133	39.7	1.7	1373±3	2662±12	204
238 ⁰	12-1	16:32	5.58	15.2	362	11	4.3	.96	2797±27	2597±32	204
204 206	S/537.5-3	16:57	5.82	16	1484	218	7.1	.6	584	581	208
207.8 238 ⁰	13-1	17:19	7.4	15.5	1339	23	1.1	.16	2499±10	2677±10	204
196 206.7 ☆	14-1	17:44	6	15.2	480	12	0	.01	2740	2649	204
196 ☆	15-1	18:06	6.23	14.9	361	8.3	-0.1	.2	2693±4	2639±30	208
206.7 238	16-1	18:29	6.19	13.7	1714	45	2.1	.12	2647±11	2660±9	204
196 208 248	17-1	18:50	6.14	14.5K	597	15	1.1	.7	2681±19	2631±19	204
206 208 238 254	S/537.5-4	19:12	6.02	14.3	1499	217	2.7	.2	589±1	558±19	208
196 206 208 238 248 254	18-1	19:35	6.55	14.6	1235	32	15.7	1.7	2149±10	2623±17	204
196 206 254	19-1	19:56	5.93	15.1	1155	32	1	.08	2614±13	2650±11	204
196	20-1	20:16	5.92	15	1209	32	1.4	.1	2730±14	2654±12	204
196 206 207.8 238	21-1	20:38	5.85	14.8	914	26	1.9	.19	2723±15	2692±13	204
	22-1	20:59	6.09	13	788	22	3.2	.38	279±17	2654±16	204
196 206 207	S/537.5-5	21:00	5.54	15.3	1408	256	17.5	1	585	559	208
	B23-1	21:45	5.95	15	915	25	1.8	.2	2664±14	2639±13	204
196 206 207 238 ⁰ 254	24-1	22:07	5.3	14.4	1948	158	5.8	.2	1538±4	2644±9	204
196 208 248	25-1	22:29	5.39	15.7	440	25	9.8	1.6	1788±12	2601±30	204
248	26-1	22:52	5.76	14.2	899	28	0.6	.06	2710±15	2624±13	204
196	27-1	23:18	6	14.6	535	14	3.5	.65	2700±21	2590±24	204
206 208 248 254	S/537.5-6	23:40	5.46	15.6	1435	260	19.6	1	606	546	208
196 208 254 ⁰	28-1	0:03	6	11.9	496	16	0.8	.1	2708	2647±18	204

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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.	
	206, 228 238	27-2	0:31	6.22	12.7	891	24	1.7	.18	2714±16 2624±15	204
	196 204 207	5/ 5-7	0:55	5.77	14.9	1523	241	12.1	.7	600 578	208
	206, 7. 248, 250	29-1	1:24	6.04	10.8	1360	50	0.7	.04	2610±12 2658±11	204
		30-1	1:50	5.84	16.1	1205	33	0.9	.07	2586±13 2632±11	204
	196 208	31-1	2:12	6.09	13.6	862	24	0.6	.07	2651±15 2656±14	204
	196 206, 208 250	32-1	2:36	6.06	13.8	687	18	2.2	.13	2735±18 2605±16	204
		33-1	3:	6.43	14	673	15	0	.005	2659±18 2644±13	204
	196, 206 208	5/ 5-8	3:23	5.73	15.1	1479	242	17.2	1.3	580 536±22	208
	208 238 248	34-1	3:47	6.45	4.6	255	17	2.3	.4	2710±30 2623±29	204
	196 204 26 207	35-1	4:14	5.82	12.6	1008	34	17.4	1.3	2698±15 2670±15	204
	207	36-1	4:45	6.14	13.2	564	15	0.6	.1	2713±20 2625±19	204
	196, 204 206, 7. 8	5/ 6-1	5:13	6.21	14.5	1614	213	2.2	1.5	574 532	208
	196 206, 7. 8 238 248	37-1	5:35	6.08	15.9	1269	30	5.5	4.9	2536±10 2634±22	204
	196 206, 7. 8, 238 250	38-1	6:01	6.15	12.8	648	18	0.4	.07	2779±19 2626±16	204
	196 206 207 238 250	39-1	6:22	6.14	14.8	871	20	2.1	.13	2795±17 2557±16	204
	196 248	40-1	6:43	5.76	14.7	360	10	0.2	.04	2848 2666	204

11 STD
 U/U: 1.80342
 U/U*: 5.84260
 Pb*/U 0.177569

1STD %
 1.74%