

UWA DATA LOG: SHRIMP ZIRCON U-Pb

Date	UWA Mount No.	Whose sample?	Operator(s)
13/8/97	97-23 ^B _c	AGSO	IF + AR

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):	8 -	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 = 8.16⁵ actual 204-bkg = 0.041 expected resolution = >4200
 actual 206-207 = 1.0005 actual 206-208 = 2.001 actual resolution = 5215
 Primary = 6.0 nA PESABM = 65 pA actual Primary : PESABM (= 50:1) = 6.2
 Raster time (mins): 1 Raster aperture (microns): 100 No. of scans: 6

Comments: *- See Page 3 -*

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. 3-1	10:21	5.54	24.8	2316	-	-ve	-	-	585	-
	sl. 4-1	10:40	5.56	24.0	2280	223	0.1	<.01	566	591	208
	UB. 1-1	11:06	6.09	23.3	8121	100	840.	20.	23411	3000	204
<i>Should have checked - miscalculated 204</i>	UB. 2-1	11:27	6.90	16.1	2311	480	5K	46.	1026	2527	204
	UB. 3-1	11:48	5.80	23.9	3346	65	191.	10.	1967	2712	204
	sl. 4-2	12:05	5.57	23.6	2230	24	0.8	.07	564	558	204
	UB. 4-1	12:34	6.03	23.4	4757	88	130	5.4	1960	2664	204
	B. 5-1	12:54	5.60	23.5	2500	47	32.	2.0	2488	2683	204
	B. 6-1	13:15	5.50	24.4	2064	51	84.	6.0	1947	2664	204
	B. 7-1	13:34	5.85	22.5	7725	117	3.3	.07	2718	2671	204
	sl. 4-3	14:08	5.70	22.9	2267	210	0.5	.04	573	520	204

Mount/sample No: 97-23

Date: 13/2/97

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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.8-1	14:28	5.73	23.1	5735	118	60.	1.7	2155	2694	204
	B.9-1	14:57	6.18	21.7	3978	64	34.	1.7	2260	2673	204
	B.10-1	15:14	6.15	23.0	1779	31	49.	5.7	1958	2652	204
	B.11-1	15:33	6.08	23.0	12K	321	124.	2.2	1463	2238	204
	C.1-1	15:51	6.83	18.5	47K	378	318	1.5	3672	2466	204
	C.2-1	16:13	5.25	20.9	32K	792	107	0.4	2679	2609	204
	sl. 4-4	16:31	5.91	19.8	2188	202	0.5	.05	582	565	204
	C.3-1	16:49	5.82	19.4	34K	412	1166	4.9	3607	2643	204
	C.4-1	17:08	5.04	18.8	4385	144	89	1.7	2628	2841	204
	C.5-1	17:27	5.09	14.6	6781	477	32	0.3	1656	2490	204
	C.6-1	17:45	5.60	23.4	4781	117	104	3.4	1951	2621	204
	C.7-1	18:03	5.80	23.1	6099	102	4.1	0.1	2621	2667	204
	sl. 4-5	18:23	5.95	20.2	2184	197	0.4	.04	574	580	208
"Runaway" stage.	C.8-1	18:40	6.22	17.8	3806	62	0.2	.02	2681	2663	204
	C.9-1	19:06	6.27	19.7	18K	292	10.0	0.10	2487	2589	204
	C.10-1	19:31	6.20	21.3	3569	61	2.5	1.4	2182	2659	204
	C.11-1	19:52	5.99	21.5	2835	43	1	.06	2614	2647	204
	C.12-1	20:19	5.17	23.6	3415	88	9.4	.08	2464	2643	204
	sl. 6-1	20:38	5.40	24.4	2092	227	1.3	.05	557	554	204
	C.13-1	20:56	6.38	18.1	84K	817	275	0.61	3672	2536	204
	C.14-1	21:14	6.27	20.1	63K	1104	5.0	0.02	2191	2274	204
	C.15-1	21:31	6.20	20.0	79K	1091	10.8	.03	2770	2700	204
	C.16-1	21:48	6.46	19.9	30K	435	33	.23	2422	2628	204
	C.17-1	22:00	6.55	19.1	27K	430	49	.39	2262	2473	204
	sl. 6-2	22:24	5.35	23.7	2017	233	0.7	.06	557	559	208

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.
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	C.18-1	22:44	5.51	22	5069	105	1.4	.04	2531	2697	204
	C.19-1	23:20	5.73	22k	28k	504	2.4	.01	2597	2649	204
	C.20-1	23:37	6.08	21k	33k	42	11.6	.01	2741	2697	204
	C.21-1	0:14	5.74	22k	22k	411	32.2	.02	2516	2639	204
	sl.8-3	0:31	5.69	22	2192	214	0.5	.04	562	489	204
	C.22-1	0:54	5.84	21	45k	730	7.7	.03	2737	2690	204
	sl.6-4	2:31	5.71	21	203	→ Garbage Data ←					
	C.23-1	→ halted ←									

All programs, except 2, quit because of a "type 1" error.

Re-loaded saved 1° programs, but couldn't get beam. Re-established 1° at similar setting except Wien 2-deflect at 56 instead of 62 uV, but this time 3:00am, peaks no longer centered [cf. sl.6.4]. Decided to shut down! Also problem with RUN table not scrolling data. Closed + re-opened.

V	NA
80	1.1
56	2.0
47	3.4

3:00am → Gave up!