

UWA DATA LOG: SHRIMP ZIRCON U-Pb

Date: 16/2/96 UWA Mount No.: 96-02 Whose sample?: A. Ross Operator(s): 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	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 = 2.167 actual 204-bkg = 0.045 expected resolution = >4200
 Primary = 2.2 nA PESABM = 40 pA actual resolution = 4783
 expected Primary : PESABM ≈ 50:1 actual Primary : PESABM = 55

Comments: ① increase duo pressure
~~IX~~ - deleted from Prawn file.

Zr/U: ~~1.93892~~ 1.93727 | 1.85421
 Uo/U: ~~6.76773~~ 6.75953 | 6.13189
 Pb²⁰⁶/U: ~~0.207325~~ 0.210994 | 0.189215
 No: 9 n=8
(std dev % = 0.9099%)

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.
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AR	sl 962.3-1	12:05	6.26	14.2	1559	-	1.0	.08	-	530	204	
AR	3-2	12:30	6.21	15	1598	218	0.7	.06	577	482	204	
<i>missed later</i>	u C.154	12:54	6.04	14.4	1060	29	13.8	1.2	2758	2728	204	
X	16											<u>high 204 - abandon</u>
AR	17-1	13:24	5.98	15.5	732	19	18	2.4	2682	2666	204	
① ARNL	sl 3-3	13:45	6.14	14	1508	226	0.9	.08	574	591	204	
X	4-6											<u>duo drifting - abandon</u>
AR	2-1	14:43	5.98	16	1510	218	0.7	.06	572	593	204	
X	u 18											<u>high 204 - abandon</u>
AR, NL	u C.194	15:24	6.32	15.6	5493	124	21.	0.5	2665	2639	204	
AR	20-1	15:49	6.20	15.1	941	23	1.6	0.2	2707	2708	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.

Rejection over-ride	Sample/ Std ID	Time - printout	UO/U	196 cps	206 cps	U ppm	204Pb ppb	f206 %	Age ±1σ (Ma) 206/238	Age ±1σ (Ma) 207/206	Corr.
AR	u c21-1	16:11	6.18	15	1464	36	5.2	0.4	2746	2688	204
AR	c22-1	16:34	6.19	15	916	23	0.0	0	2740	2656	—
AR	sl c22	17:04	5.91	15.6	1555	224	1.5	0.1	615	563	204
	c23-1	—	too unstable	—	—	—	—	—	—	—	—
AR, NL	sl 2-3	18:56	6.11	16.4	1599	215	0.9	0.0	563	597	208
AR	u 23-2	19:11	6.19	16.8	1972	42	0.0	0	2762	2688	—
AR	u-c24-1	19:35	6.32	14.8	1959	44	24.9	1.4	2759	2670	204
AR	u-c25-1	20:02	6.08	14.4	1959	50.4	2.7	0.13	2847	2670	204
	u-c25-2	→ setup, checking peak centering - delete from file									
AR	sl 2-4	21:03	6.14	17.9	1788	210.2	0.7	.06	581	523	204
	u c26-1	21:26	6.07	19.7	1062	20.9	1.4	.17	2747	2700	204
AR	u c27-1	21:55	5.97	19.6	2207	45.2	13.1	.73	2777	2676	204
AR, NL	u c28-1	22:23	5.66	21.1	2519	58	2.7	.12	2782	2684	204
AR, NL	sl 2-5	22:46	6.11	19.5	1976	221	0.1	.01	569	640	208
AR	u c29-1	23:11	6.57	20.6	5964	90.4	47.7	1.40	2639	2535	204
AR	u c30-1	23:34	6.01	19.9	1361	26.9	0.3	.02	2774	2702	204
AR	u c31-1	23:57	5.94	20.3	1934	37.7	60.1	3.9!	2786	2694	204
	u c32-1	→ abandoned T.Pb									
AR, NL	u c33-1	00:31	5.94	19.4	3749	76.5	10.9	0.35	3843	3652	204
AR	sl 2-6	0:54	6.12	20.0	1997	218	1.2	—	566	502	204
	u c34-1	1:19	5.96	19.2	685	14.5	0.7	.12	2764	2706	204
	u c35-1	1:19	5.96	19.2	685	14.5	0.7	—	—	—	—
AR, NL	u c35-1	1:43	6.05	19.5	3114	64	19.8	.82	2663	2661	204
AR	u c36-1	2:09	6.21	8.4	696	30.9	1.6	.13	2648	2702	204
AR	u c37-1	2:32	6.12	8.1	413	19.9	0.3	0.04	2687	2709	204

? too unstable?

I.F. significantly adjusted 1° settings

Very unstable primary

A.K. significantly adjusted 1° settings

→ Remove scan 1 of 254

drop in primary during analysis

primary dropping

Almost completely lost 1° during analysis

Corrected by A m Duoy. to c left
Consider removing last scan!

