

UWA DATA LOG: SHRIMP ZIRCON U-Pb

Date: 6/3/96 UWA Mount No.: 96-09 Whose sample?: S. Brown Operator(s): 1F+SB

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 = 8.167 actual 204-bkg = 0.045 expected resolution = >4200
 Primary = 2.8 nA PESABM = 2.7 ^{not checked, but intensity is OK} pA actual resolution = 4774
 expected Primary : PESABM ≈ 50:1 actual Primary : PESABM =

Comments: S fols 1 and 4 (especially spots 4-3 and 4-4 are questionable because of open edge (4-3) and crack (4-4)).
- but maybe there is a real drift in the calibration line ???
 ① Printer lockup at ~ 6:20 pm. - lost one printout.

Rejection over-ride	Sample/Std ID	Time - printout	UO/U	196 k cps	206 cps	U ppm	204Pb ppb	f ₂₀₆ %	Age ±1σ (Ma) 206/238	207/206	Corr.
	sl 969.1-10	12:36	5.66	19	1588	224	1.5	-	-	-	-
	sl 4-1	12:56	5.75	19	1584	cal	1.2	0.1	cal	596	204
	sl 4-2	13:16	5.97	17.5	1645	215	0.7	0.004	273	591	208
	u 969C.1-1	13:36	6.04	17.5	1900	42	1.1	.07	2771	2686 ± 8	204
	2-1	13:55	5.85	18	3227	81	30.	1.0	2635	2654 ± 11	204
	3-1	14:16	5.59	18.4	2072	55	0.5	.02	2819	2654 ± 8	204
	4-1	14:34	5.82	17.8	1511	38	2.0	0.1	2717	2675 ± 10	204
	5-1	14:53	5.84	17.9	1671	41	-ve	-	2742	2680 ± 9	-
	sl 4-3	15:12	5.51	20.	1654	243	1.0	.08	590	565	204
	u C.6-1	15:33	5.84	18.	2376	58	3.7	0.2	2723	2684 ± 8	204
	7-1	15:51	5.85	18.4	1688	41	-ve	-	2684	2655 ± 8	-

not calibrated

high 204

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.
	u969C.8-1	16:10	5.67	18.7	1563	38	5.7	0.4	2835	2587±12	204
	9-1	—	high	204	—	abandon	—	—	—	—	—
	(9-2)	16:32	5.95	18.3	2368	55	-ve	—	2643	2699±7	204
	sl 4-4	16:52	5.91	18.1	1786	223	-ve	—	(599)	557	—
	u (10-1)	17:14	5.69	18.8	1442	36	1.5	0.1	2848	2730	204
	sl 3-2	17:32	5.92	18.2	1823	225	1.4	0.1	(602)	468	204
	u C.11-1	17:51	5.62	18.9	1685	44	0.0	—	2765	2682±9	—
	12-1	18:10	5.80	18	2406	59	0.3	0.01	2760	2672±8	204
	12-2					57	0.1	<0.01	2748	2692±8	204
	C. 13-1	19:03	5.79	18.6	3123	80	7.4	0.3	2593±8	2691±8	204
	C. 14-1	19:30	5.80	18.8	2155	53.8	5.6	0.3	2617±10	2670±9	204
	C. 15-1	19:53	5.61	18.1	1311	35	4.2	0.3	2794±14	2656±12	204
	Std. 4-5	20:17	5.66	18.5	1619	236	1.0	0.08	585	594	204
	C. 16-1	20:38	5.89	17.5	2959	72	9.0	0.3	2722±9	2678±8	204
	C. 17-1	21:00	5.91	17.3	3090	73	-ve	—	2780±9	2683±7	—
	C. 18-1	21:32	6.17	17.9	2173	45	-ve	—	2676±10	2684±8	—
	C. 19-1	21:54	6.01	17.3	1831	41	0.8	0.05	2771±12	2676±9	204
	C. 20-1	22:16	6.02	17.2	1597	36	0.0	—	2779±13	2689±9	—
	Std. 4-6	22:37	5.62	18.1	1548	231	-ve	—	597	501	—
	C. 20-2	22:56	5.92	17.4	2166	52	0.8	0.04	2723±11	2692±8	204
	C. 18-2	23:20	6.02	17.2	2356	55	-ve	—	2695±10	2647±7	—
	A. 1-1	23:20	6.02	17.2	2356	55					
	A. 1-1	23:53	5.78	19.9	5811	132	1.3	0.03	2736±7	2717±5	204
	A. 2-1	0:12	5.86	17.5	2947	70.6	0.0	—	2779±10	2701±7	—

filed az10-1. change file? get things high??
filed as C.10 also high.

no printout ①

clear, unzoned euhedral zircon.

30 Ma difference, same unzoned grain.

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Rejection over-ride	Sample/ Std ID	Time - printout	UO/U	196 cps	206 cps	U ppm	204Pb ppb	f206 %	Age $\pm 1\sigma$ (Ma)		Corr.
									206/238	207/206	
	A.3-1	0.33	5.93	17.5	2659	62.7	3.5	0.1	2734 \pm 10	2699 \pm 8	204
	Std.3-3	0.53	6.07	16.9	1722	210	0.8	0.07	601	470	204
	A.4-1	1.14	5.91	17.2	3503	82.3	0.0	—	2815 \pm 9	2713 \pm 6	—
	A.5-1	1.35	5.92	16.7	1708	40.5	0.3	0.02	2838 \pm 13	2711 \pm 9	204
	A.6-1	1.54	5.98	16.9	3235	75.4	-ve	—	2782 \pm 9	2719 \pm 6	—
	A.7-1	2.16	6.44	9.1	1236	46.6	-ve	—	2564 \pm 13	2794 \pm 10	—
	A.8-1	2.36	5.74	9.5	2058	107	2.1	0.05	2576 \pm 10	2695 \pm 8	204
	Std.3-4	2.56	5.74	17.7	1609	229	0.1	<0.01	594	550	204
	A.9-1	3.22	6.17	17.2	3614	79.1	1.8	0.06	2654 \pm 8	2702 \pm 6	204
	A.10-1	3.43	5.80	18.5	1977	45.3	1.0	0.05	2839 \pm 12	2699 \pm 9	204
	A.11-1	4.06	5.87	18.1	1800	42.4	1.1	0.07	2743 \pm 12	2712 \pm 9	204
	A.12-1	4.26	5.60	18.4	1574	43.3	1.3	0.08	2742 \pm 13	2708 \pm 10	204
	A.13-1	4.48	6.01	17.8	2769	60.2	1.6	0.07	2787 \pm 10	2697 \pm 7	204
	Std.3-5	5.07	5.68	18.95	1700	238	0.4	0.03	589	577	204
	A.14-1	5.30	5.75	18.2	2427	59.5	0.8	0.03	2809 \pm 11	2703 \pm 8	204
	A.15-1	5.58	5.84	18.2	2205	51.2	-ve	—	2800 \pm 11	2712 \pm 8	—
	A.16-1	6.49	6.12	16.6	3489	77.7	1.6	0.05	2749 \pm 9	2699 \pm 7	—
	A.17-1	7.10	6.15	17.4	2648	55.7	1.1	0.05	2738 \pm 10	2701 \pm 8	—
A18-1	A.18-1	7.29	5.77	17.8	3712	90.7	1.6	0.05	2803 \pm 9	2701 \pm 6	—
	Std.3.6	7.49	5.84	16.5	1660	233	-ve	—	612	568	—

?
damaged
Zircon
Sputtered
through Zircon
Sliver?