

UWA DATA LOG: SHRIMP ZIRCON U-Pb

Date: 17/8/99 UWA Mount No.: 99-28 Whose sample?: AGSO Operator(s): MeN + AP

Indicate any change to the following: 196 204 bkg 206 207 208 238 248 254 270

Precambrian Count time (secs): 2 10 10 10/20 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 = 0.045 amu Dead-time = 32 nanosecs

actual 196-204 = 8.167 actual 204-bkg = 0.045 expected resolution = >4200

actual 206-207 = 1.000 actual 206-208 = 1.999 actual resolution = 5595

EPOXY = 2.3 mA

Primary = 3:1 nA PESABM = 35 pA actual Primary : PESABM (= 50:1) =

Raster time (mins): 1 Raster aperture (microns): 120 No. of scans: 6

SEM = 16.3

Comments: C = 9996 7066 ^{core} rim NB: for B53, 65 & 66 1st Pb204 counts are consistently high → ↑ 2 min raster.
 B = " 7082C 1^o spikes occasionally.
 A = " 9093B

NB: from A60 onwards the * Ortec rim Ted significantly!

* Changed run table: +5 to all collector positions (cf ASWA did this yesterday)

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	Offsets OK?
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C

	sl.5-3	10:29	6.72	12.1	1524	220	0.4	.03	572 ± 1	565 ± 29	✓
	sl.5-4	10:46	7.11	11.9	1603	211	1.8	-.17	544 ± 1	523 ± 26	✓
	c.11-1	11:08	7.14	11.7	885	22.2	0.5	.07	2468 ± 16	2655 ± 14	✓
	sl.5-5	11:26	7.01	10.9	1437	221	0.7	.06	528 ± 1	571 ± 26	✓
	c.11-2	11:46	7.27	11.6	680	15.9	-0.6	✓	2516 ± 19	2664 ± 14	✓
	c.12-1	12:07	7.22	12.0	2039	47.6	1.3	.08	2486 ± 11	2648 ± 9	✓
	c.12-2	12:24	7.01	11.5	2984	77.5	0.7	.03	2531 ± 9	2653 ± 7	✓
	sl.6-1	12:42	7.17	11.4	1484	208	0.8	.08	520 ± 1	589 ± 23	✓
	B.53-1	13:03	7.34	11.5	3.9k	76.6	2.6	0.08	2873 ± 10	2944 ± 6	✓
	B.65-1	13:21	7.27	11.5	9.6k	220	4.4	.05	2585 ± 5	2755 ± 4	✓
	B.66-1	13:40	7.17	11.6	6.5k	140	4.6	.08	2782 ± 7	2897 ± 4	✓

1st 204 ep. high.

1^o 3.0-A

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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 Offsets OK?

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	Offsets OK?
	B. 64-1	14:02	7.26	11.8	2297	46	0.3	.02	2819 ± 12	2933 ± 7	✓
	sl 6-2	14:21	7.03	11.9	1578	216	-ve	.01	540 ± 1	574 ± 19	✓
	B. 63-1	14:39	7.24	11.7	3098	63	-ve	-	2799 ± 11	2922 ± 6	✓
	B. 67-1	14:59	7.38	11.5	14.4K	287	2.0	.02	2792 ± 5	2936 ± 3	✓
	B. 68-1	15:17	7.45	11.5	12.2K	232	0.4	.01	2821 ± 5	2947 ± 3	✓
	B. 62-1	15:38	7.45	11.4	4530	89	0.5	.01	2763 ± 9	2938 ± 5	✓
	sl 6-3	15:58	7.12	11.9	1526	205	0.8	-.08	531 ± 1	483 ± 35	✓
	B. 61-1	16:17	6.44	10.3	1986	67	2.2	.08	2755 ± 12	2923 ± 8	✓
	B. 69-1	16:36	7.42	11.4	6628	128	0.2	.004	2844 ± 8	2963 ± 4	✓
	B. 70-1	16:54	7.48	11.1	11.9K	229	2.1	.02	2860 ± 6	2933 ± 3	✓
	B. 60-1	17:14	7.41	11.3	4471	93	4.2	.11	2699 ± 8	2920 ± 5	✓
	B. 71-1	17:36	7.31	11.5	10.5K	214	6.9	.08	2795 ± 6	2934 ± 3	✓
	sl. 6-4	17:57	6.95	11.6	1499	213	0.5	.04	549 ± 1	504 ± 32	✓
	B. 56-1	18:15	7.55	10.9	7213	152	0.8	.02	2653 ± 7	2728 ± 4	✓ con.
	B. 72-1	18:36	7.45	11.6	4872	94	3.3	.09	2783 ± 8	2940 ± 5	✓
	B. 73-1	18:58	7.08	11.8	6005	130	3.1	.06	2813 ± 8	2939 ± 5	✓
	sl. 7-1	19:17	7.40	11.4	1549	192	0.5	.05	535 ± 1	536 ± 4	✓
	A. 33-1	19:39	7.52	10.8	23.9K	487	1.9	.01	2761 ± 4	2957 ± 2	✓
	A. 39-1	19:58	7.19	11.6	8040	166	2.1	.03	2855 ± 7	3009 ± 4	✓
	A. 48-1	20:21	7.19	11.1	20.1K	525	3.9	.02	2434 ± 3	2830 ± 2	✓
	A. 52-1	20:39	6.92	11.8	7966	178	1.1	.02	2896 ± 7	3007 ± 4	✓
	sl. 7-2	20:59	7.34	11.2	1502	193	1.4	-.06	540 ± 1	559 ± 20	✓
	A. 53-1	21:17	6.63	12.8	6397	151	4.1	-.06	2864 ± 7	2995 ± 4	✓
	A. 54-1	21:35	6.75	13.6	5221	116	6.7	-.14	2742 ± 8	2974 ± 5	✓
	A. 47-1	21:55	7.01	12.6	8584	173	5.2	.07	2883 ± 7	3003 ± 4	✓

2 min raster.

[B]

Five-alarm building

B-16

[A]

1" = 5.0m

1" ↑ → 3.2m

let scan

64=1

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	Offsets OK?
	A. 46-1	22=14	7.18	12.0	18.9k	411	1.3	.01	2670 ± 4	2929 ± 2	✓
	sl. 7-3	22=36	6.85	12.8	1498	206	1.0	.10	538 ± 1	554 ± 28	✓
	A. 55-1	22=54	6.75	12.1	7453	174	-ve	-ve	2889 ± 7	3006 ± 4	✓
	A. 38-1	23=13	6.93	12.5	4902	105	1.5	.03	2839 ± 8	3026 ± 5	✓
	A. 56-1	23=31	6.89	12.1	8732	194	7.6	.09	2875 ± 6	2984 ± 4	✓
	A. 57-1	23=52	7.23	12.4	7118	133	0.1	.001	2893 ± INF	3002 ± INF	✓
	sl. 8-1	24=13	7.19	12.3	1645	205	1.1	.08	539 ± 1	582 ± 19	✓
	A. 58-1	24=32	7.03	12.4	7760	162	5.9	.09	2821 ± 7	3001 ± 4	✓
	A. 51-1	24=52	6.99	12.2	9432	204	1.2	.01	2816 ± 6	3007 ± 3	✓
	A. 49-1	1=11	7.16	11.8	12.3k	242	4.7	.04	2959 ± 6	2997 ± 3	✓
	A. 41-1	1=40	7.29	12.5	13.1k	241	2.2	.02	2868 ± 5	2996 ± 3	✓
	sl. 8-2	2=00	6.96	12.9	1589	212	1.7	.05	522 ± 1	641 ± 19	✓
	A. 59-1	2=20	7.17	12.2	10.5k	216	20.1	.23	2754 ± 6	2998 ± 4	✓
	A. 60-1	2=39	6.92	11.5	10.7k	251	9.0	.09	2831 ± 6	2981 ± 3	✓
	A. 61-1	3=09	7.04	11.8	16.8k	363	2.7	.02	2847 ± 5	2989 ± 3	✓
	sl. 8-3	3=28	7.22	12.1	1541	205	0.3	.04	507 ± 1	610 ± 20	✓
	B. 74-1	3=50	7.00	11.9	3313	72	2.2	.07	2842 ± 10	2938 ± 6	✓
	B. 75-1	4=09	6.94	11.9	10.7k	251	1.0	.01	2729 ± 5	2915 ± 3	✓
	B. 76-1	4=29	7.18	11.9	4052	87	2.3	.07	2715 ± 9	2908 ± 6	✓
	B. 77-1	5=06	7.42	12.1	15.8k	334	3.2	.03	2516 ± 4	2742 ± 3	✓
	sl. 8-4	5=25	7.04	12.3	1555	217	1.2	.05	513 ± 1	687 ± 19	✓
	B. 78-1	5=50	7.15	12.4	14.8k	323	2.6	.02	2619 ± 4	2738 ± 3	✓
	B. 79-1	6=18	7.38	11.0	3165	66	4.0	.10	2774 ± 10	2936 ± 6	✓
	B. 83-2	6=45	7.39	11.6	5707	110	1.9	.04	2852 ± 8	2933 ± 5	✓
	BE. 27-1	7=04	6.88	12.5	4684	118	-ve	-ve	2531 ± 7	2667 ± 5	✓

A

1° = 3.2nA
 " a few rater gas

1° less noisy. →

1° asymmetry over slow drift in 1°

1° = 3.1 nA

1° = 3.0nA

1° = 3.2nA

1° = 3nA

1° = 3.1nA

more or less failures

B few orke fuis

building fire alarm went off again

C rim

last 2 scans

scan

scan

scan

