

### UWA SHRIMP DATA LOG

Date: 17.1.05      UWA Mount No.: 04-139 (AP2)      Whose sample?: Y1 P763      Operator(s): AP/RT

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 4 1 1 3 2 3

Steel: Wein volts / nA = ..... for O<sup>-</sup>; = 132v / 1.2 nA for O<sub>2</sub><sup>-</sup>; = ..... for NO<sup>-</sup>

dead-time = 25 nanosecs      expected resolution = >4200      actual resolution = .....

aperture = 50 microns      retardation lens = 0 volts

Expected offsets (amu): 196-204 = 8.170; 204-bkg = 0.045; 204-206 = 2.000; 206-207 = 1.000; 206-208 = 2.000

Actual: 196-204 = 8.170      204-bkg = 0.045      204-206 = 2.005  
 206-207 = 1.006      206-208 = 2.009

Primary-epoxy = 1.2 nA      Primary-CZ3 = 1.6 nA      PESABM-CZ3 = 22 pA

Raster time (mins): 2 min      Raster aperture (microns): 125 μm      No. of scans: 5

Comments: B12 - B14 offset out by +.002 → .008 still ok?  
 ditto C2 2-6 & 2-7

1.5189  
 Pb/U = 0.2124  
 Uo/U = 6.1636  
 1.5406  
 Pb/U = 0.2108  
 Uo/U = 6.0698

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?
	C2 1-1	10:16	6.07	9	1200	551	-	-	564 ± 6	528 ± 30	✓ 24.2
	C2 1-2	10:44	6.16	9	1300	551	2.5	.09	564 ± 7	505 ± 48	✓ 24.6
	A 1-1	11:03	6.29	9	950	64	-	-	2913 ± 68	2980 ± 14	✓ 25.4
	A 2-1	11:22	6.38	8.8	1100	87	-	-	2617 ± 38	2665 ± 18	✓ 26.0
	C2 1-3	11:41	6.18	9	1300	551	0.6	.02	559 ± 5	558 ± 44	✓ 25.0
	B 1-1	12:02	6.38	8.7	1100	85	-	-	2649 ± 46	2669 ± 22	✓ 26.7
	B 2-1	12:19	5.93	8.2	600	144	109.2	7.34	1061 ± 22	2583 ± 89	✓ 23.0
	C2 1-4	12:37	6.27	8.4	1200	554	-	-	569 ± 6	568 ± 46	✓ 25.6

HV OFF →

SENS.

Note: Bold = constant for stds & unknowns.....check after each analysis; also check offsets.

Sample/ Std ID	Time on printout	UO/U 254/238	196 (zr) Kcps	206 cps	U ppm	f <sub>206</sub> %	Sensit.	Age+/-1σ (Ma) 206/238	207/206	Offsets OK?
Alternative		<b>UO2/UO</b> 270/254	<b>194 (xt)</b> <b>200 (tnt)</b> <b>203 (mz)</b>	206 cps	254 270 Kcps	204 cps	196/194 264 Kcps	206/238 206/254 206/270	207/206	Check after each!!!
A3-1	12:57	6.19	8.6	720	60	-	24.8	2640±58	2690±28	✓
A4-1	13:16	6.46	8.8	1100	74	.14	25.8	2917±53	2952±14	✓
A5-1	13:38	6.10	9.1	980	74	-	24.0	2724±56	2612±20	✓
A6-1	13:57	6.25	9.4	1900	142	.05	25.4	2626±40	2652±11	✓
<del>C22-1</del>	14:15	6.14	9.2	1300	557	.04	24.1	558±5	473±30	✓
A7-1	14:33	6.27	9.3	1100	81	-	25.5	2657	2663	✓
A8-1	14:50	6.32	9.3	1100	82	.14	26.1	2639±39	2643±15	✓
A9-1	15:10	6.25	9.2	1100	82	.15	25.6	2639±41	2656±16	✓
A10-1	15:27	6.26	8.5	1300	104	.08	24.3	2633±36	2675±19	✓
C22-2	15:44	6.13	8.6	1300	564	.06	24.1	579±5	540±39	✓
A11-1	16:04	6.33	8.7	1600	122	.12	25.7	2681±33	2664±14	✓
A12-1	16:29	6.33	8.3	1200	99	.06	24.5	2654±41	2671±18	✓
A13-1	16:47	6.64	9.2	1900	132	.06	28.3	2626±58	2655±13	✓
A14-1	17:05	6.40	9.1	960	72	.10	26.5	2604±45	2668±23	✓
C22-3	17:22	6.13	8.6	1200	553	.18	23.6	562±6	413±56	✓
B3-1	17:45	6.42	8.8	1200	92	.17	26.3	2657±45	2805±17	✓
B4-1	18:04	6.41	8.9	1900	132	.03	26.4	2802±33	2795±11	✓
B5-1	18:30	6.30	8.6	1300	110	-	23.8	2524	2663	✓
B6-1	18:46	6.45	9.4	1400	100	.35	26.9	2561±42	2632±18	✓
C22-4	19:04	6.01	8.8	1200	546	.10	23.5	569±7	501±52	✓
B7-1	19:29	6.51	8.4	2200	179	1.03	27.0	2592±33	2799±17	✓

Note: Bold = constant for stds & unknowns.....check after each analysis; also check offsets.

Sample/ Std ID	Time on printout	UO/U 254/238	196 (zr) Kcps	206 cps	U ppm	f <sub>206</sub> %	Sensit.	Age+/-1σ (Ma) 206/238	207/206	Offsets OK?
Alternative		UO2/UO 270/254	194 (xt) 200 (tnt) 203 (mz)	206 cps	254 270 Kcps	204 cps	196/194 264 Kcps	206/238 206/254 206/270	207/206	Check after each!!!
B7-2	19:46	6.50	7.8	1900	173	.23	24.5	2470±27	2813±15	✓
B8-1	20:15	6.65	8.9	1400	139	1.24	28.8	2619±35	2718±21	✓
B9-1	20:31	5.92	9.0	1200	103	.07	23.9	2654±45	2715±19	✓
CZ2-5	20:48	6.12	8.1	1200	563	.02	22.9	572±7	429±37	✓
B10-1	21:06	6.62	8.3	1400	106	.23	27.0	2761±55	2784±13	✓
B11-1	21:28	6.33	8.4	1600	398	.04	24.8	1014±11	994±32	✓ O.K.
B12-1	21:50	6.37	8.5	1500	117	.73	25.8	2670±40	2826±22	206-207: 1.009 + 206-18: 2.014
B13-1	22:25	6.49	9.1	1600	118	1.75	26.9	2561±40	2634±22	8-168 - .002 + 706-207: 1.009 206-206: 2.014
CZ2-6	22:41	6.13	8.5	1200	554	.26	22.7	553±6	432±64	8-167 +.005 1.006
B14-1	23:15	6.09	9.1	740φ	59	1.42	24.2	2620±71	2625±37	2.010 8-168 1.009
B14-2	23:32	6.27	9.0	930	71	.16	24.5	2662±42	2636±17	2.014 8-168 2.017 +.008
CZ2-7	00:16	5.87	9.5	1200	521	-	23.6	588±6	545±46	8-168 1.009 2.017
B15-1	00:32	6.29	9.5	1400	123	1.88	26.4	2193±35	2683±28	8-170 1.006 2.009
B16-1	00:52	5.91	9.3	110	8	.27	23.7	2779	2595	-
B17-1	01:10	6.24	8.7	940	70	.05	24.8	2811±50	2850±18	✓
CZ2-8	01:30	6.06	8.5	1200	547	.13	23.2	563±6	455±47	✓
A15-1	01:51	6.13	8.9	1400	116	.07	25.0	2650±37	2689±13	✓
A16-1	02:11	6.19	8.6	820	68	.24	24.6	2638±44	2644±19	✓
A17-1	02:31	6.22	8.9	1400	114	-	26.1	2592±53	2686±18	✓
A18-1	02:48	6.15	8.3	930	80	-	24.3	2659±48	2669±19	✓
CZ2-9	03:05	6.25	8.2	1100	544	-	24.4	556±5	546±43	✓

trimmass offset  
can't see 208

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Sample/ Std ID	Time on printout	UO/U 254/238	196 (zr) Kcps	206 cps	U ppm	f <sub>206</sub> %	Sensit.	Age+/-1σ (Ma)		Offsets OK?
Alternative		UO2/UO 270/254	194 (xt) 200 (tnt) 203 (mz)	206 cps	254 270 Kcps	204 cps	196/194 264 Kcps	206/238 206/254 206/270	207/206	Check after each!!!
A19-1	03:24	6.28	8.6	1700	136	.21	25.5	2669±50	2640±14	✓
A20-1	03:40	6.09	8.2	710	60	.29	21.8	2729±79	2619±26	✓
A21-1	03:57	6.12	9.4	1400	107	-	24.2	2655±48	2682±17	✓
A22-1	04:12	6.40	9.5	7200	513	.06	25.7	2657±23	2786±6	✓
CZ2-10	05:32	6.16	8.6	1200	546	.06	23.8	571±10	550±46	✓
A23-1	05:54	5.98	1.0	1200	84	.15	25.8	2704±60	2648±23	✓
A24-1	06:10	6.30	8.6	750	62	-	27.1	2591±48	2708±23	✓
A25-1	06:26	6.16	7.3	860	86	-	23.7	2615±69	2679±18	✓
A26-1	06:42	6.37	7.1	910	86	.24	24.3	2670±53	2660±16	✓
CZ2-11	07:00	6.38	7.1	1000	558	.02	24.6	559±7	517±47	✓
A27-1	07:18	6.24	6.6	850	94	-	21.2	2569±42	2650±22	✓
A28-1	07:34	6.37	7.7	2200	171	.07	25.7	2955±32	2944±10	✓
A29-1	07:50	6.43	7.1	940	93	.21	24.0	2523±43	2673±20	✓
A30-1	08:07	6.40	6.9	710	70	.13	24.3	2651±62	2655±23	✓
CZ2-12	08:24	6.34	6.9	1000	562	-	23.9	564	547	✓
A31-1	08:41	6.27	7.2	1100	103	.08	24.3	2624±44	2663±19	✓
A32-1	08:57	6.38	7.1	800	80	-	23.7	2542±51	2663±20	✓
CZ2-13	09:12	6.20	7.6	1100	550	-	24.8	572	559	✓

current  
down →