

UWA SHRIMP DATA LOG

B

Date: 26/11/04 UWA Mount No.: C96, C48, C71? Whose sample?: YIP763 Operator(s): AP/SM

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

Steel: Wein volts / nA = 197V/7nA for O⁻; = 141V/1.8nA for O₂⁻; = _____ for NO⁻

dead-time = 24 nanosecs expected resolution = >4200 actual resolution = 5380
 (blown) aperture = 5.0 microns retardation lens = 0 volts sensitivity = 26.39

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 = 8.164 204-bkg = 0.045 204-206 = 2.012
 206-207 = 1.006 206-208 = 2.009

Primary-epoxy = 1.6 nA Primary-CZ3 = 2.2 nA PESABM-CZ3 = 55 pA
 Raster time (mins): 2 Raster aperture (microns): 120 No. of scans: 6

Comments: C-48A ~ 20-25 → did 25, still a lot left, even with cracks no ²⁰⁴Pb
 C-96C ~ 20-25 → not worth to do more than 20
 C71C if time

slope 1.75 : 2σ error mean 0.42%, ext 2σ 0.98% MSWD 2.00

Calibra² 6.4871
 Rb/U = 0.1993
 Uo/U = 5.9875

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?
	C2.7-1	11:05	5.99	13	1800	551	0.8	0.03	564 ± 5	541 ± 29	✓ 24.4
	C2.7-2	11:24	6.17	13	1900	567	1.0	0.04	571 ± 4	514 ± 38	✓ 24.2
	C.21-1	11:51	5.62	14	1400	80	5.4	0.24	2674 ± 38	2805 ± 13	✓ 24.0
	C.22-1	12:08	6.09	13	1400	103	8.7	0.31	2622 ± 37	2683 ± 18	✓ 25.7
	C2.4-1	12:25	6.10	13	1800	534	0.2	0.01	570 ± 5	553 ± 23	✓ 24.8
	C.23-1	12:43	5.77	14	1700	98	-	-	2669 ± 31	2713 ± 18	✓ 23.7
	C.24-1	13:09	5.86	13	920	51	-	-	2733 ± 39	2714 ± 16	✓ 22.8
	C.25-1	13:39	6.21	13	1700	92	3.4	0.14	2627 ± 34	2714 ± 12	✓ 24.9

C96

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 ₂₀₆ %	Sensit. f ₂₀₆ %	Age+/-1σ (Ma)		Offsets OK?
								206/238	207/206	
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!!!
C26-1	14:00	6.11	13	1700	89	0.2	0.008	2672±133	2668±11	✓ 24.9
C24-2	14:21	5.98	14	1800	535	-	-	572±4	552±28	✓ 24.0
C27-1	14:44	6.01	13	2000	111	3.1	0.10	2658±28	2717±12	✓ 23.8
C28-1	15:07	5.85	13	810	47	4.2	0.83	2634±44	2666±18	✓ 22.9
C29-1	15:25	6.00	13	1500	85	2.8	0.12	2672±37	2692±13	✓ 23.5
C30-1	15:46	5.89	14	1900	118	13.3	0.47	2376±24	2738±12	✓ 24.1
C31-1	16:11	6.10	13	850	46	3.0	0.24	2652±50	2690±24	✓ 25.1
C27-3	16:31	6.07	13	1800	549	0.5	0.02	571±4	560±28	✓ 24.5
C32-1	16:53	6.07	12	2300	170	5.9	0.16	2194±29	2739±11	✓ 22.2
C33-1	17:18	5.9	13	1700	97	1.5	0.06	2657±30	2704±12	✓ 25.9
C34-1	17:42	5.76	14	2100	123	5.4	0.17	2561±25	2734±10	✓ 23.7
C35-1	18:09	5.89	13	1800	106	-	-	2684±35	2704±10	✓ 23.8
C2.16-1	18:30	5.87	13	1700	545	1.8	0.07	561±4	481±37	✓ 24.4
C36-1	18:56	5.4	15	1700	99	6.0	0.23	2588±40	2687±13	✓ 24.6
C37-1	19:17	5.91	13	1400	77	0.9	0.04	2734±39	2707±16	✓ 24.6
C38-1	19:41	5.7	14	810	52	4.5	0.37	2370±35	2713±20	✓ 25.7
C39-1	20:08	5.94	13	2600	138	2.6	0.06	2852±38	2756±11	✓ 24.1
C40-1	20:36	5.9	13	1900	131	4.4	0.14	2398±183	2650±14	✓ 22.9
C2.10-1	20:56	5.75	13	1700	536	1.8	0.07	585±3	492±40	✓ 29.3
C2.7-4	21:18	5.74	12	1500	543	1.4	0.05	577±5	536±32	✓ 22.8
C2.1-1	21:46	5.58	13	1600	529	-	-	583±4	535±29	✓ 24.8

my blame! on 7-1)

change from mount C-96 to C-48

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 ₂₀₆ %	Sensit. f ₂₀₆ %	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!!!	
C-22-1	22:16	5.61	13	3000	200	4.5	0.09	2560±27	2652±8	✓	24.1
C-23-1	22:38	5.54	13	1100	68	3.9	0.21	2626±51	2644±15	✓	24.7
C-24-1	22:58	5.75	13	1600	94	0.5	0.02	2687±34	2671±13	✓	26.0
C-25-1	23:17	5.88	12	3900	248	2.8	0.04	2616±21	2661±9	✓	25.8
C2.2-1	23:37	5.36	13	1500	529	0.1	0.004	590±1	539±1	✓	23.9
C-26-1	00:01	5.39	14	1100	67	2.4	0.12	2770±45	2660±15	✓	23.6
C-27-1	00:21	5.71	13	3300	199	1.9	0.03	2714±19	2652±8	✓	23.9
C-28-1	00:38	5.72	14	2500	133	8.6	0.23	2689±31	2659±13	✓	28.6
C-29-1	00:57	5.6	13	1300	76	0.8	0.04	2683±31	2661±17	✓	27.0
C2.3-1	01:18	5.42	14	1600	513	3.1	0.12	584±3	546±38	✓	25.4
C-30-1	1:40	5.4	13	740	47	0.5	0.04	2659=NA	2681=NA	✓	21.9
C-31-1	1:59	5.5	13 14	2700	155	3.7	0.08	2741±25	2676±11	✓	27.8
C-32-1	2:19	5.46	14	2300	140	2.9	0.08	2664±29	2675±9	✓	25.1
C-33-1	2:39	5.37	13	3300	216	12.6	0.22	2616±29	2665±12	✓	22.7
C2.4-1	2:58	5.41	13	1500	522	3.9	0.15	566±5	537±41	✓	25.1
C-34-1	3:20	5.68	13	3500	211	0.13	0.13	2699±19	2654±7	✓	24.8
C-35-1	3:40	5.89	13	900	53	-	-	2627±40	2652±12	✓	26.2
C-36-1	4:00	5.6	13	1000	62	1.4	0.08	2756±41	2680±16	✓	26.5
C-37-1	4:22	5.45	14	1900	119	1.9	0.06	2664±32	2668±14	✓	24.2
C-38-1	4:43	5.53	14	1400	83	-	-	2615±46	2678±	✓	24.4
C2.5-1	5:03	5.53	12	1400	541	3.0	0.11	577±5	578±33	✓	22.5

