

UWA SHRIMP DATA LOG

SHRIMP A

Date: 04-10-03 UWA Mount No.: 03-41 Whose sample?: AP/Marco Operator(s): AP/Marco

Indicate any change to the following: 196 204 bkg 206 207 208 238 248 254 270 196 HfO₂

Precambrian	Count time (secs):	2	10	10	10/20*	30/10*	10	5	5	2	2
Phanerozoic	Delay time (secs):	82	3	1	2	1	1	3	2	2	8

Steel: Wein volts / nA = -84/5.17 for O⁻; = -58/3.7 for O₂⁻; = -48/5 for NO⁻

dead-time = 24 nanosecs expected resolution = >4200 actual resolution = 436.3

aperture = 100 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 = 2.000

206-207 = 1.000 206-208 = 2.000

Primary-epoxy = 3.9 nA Primary-CZ3 = 5.2 nA PESABM-CZ3 = 91 pA

Raster time (mins): 1 min Raster aperture (microns): 50 No. of scans: 5

Comments: 2-242

Deleted B9-1 thru to CZ5-1.

Pb/U = 0.1963

Uo/U = 6.8746

A = 20

B = 20

C_T = 11?

Provenance

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?
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40µm 1min

50µm 1min

	CZ31-1	12:33	6.87	30	2700	238	0.8	0.07	572 ± 3	601 ± 28	✓
	CZ32-1	12:58	7.26	29	2700	236	0.5	0.04	587 ± 4	525 ± 41	✓
	A341.1-1	13:22	7.02	30	2200	61.3	1.5	1.64	179 ± 25	238 ± 276	✓
	A341.2-1	13:41	7.02	31	4800	190.7	1.2	0.06	1472 ± 11	1437 ± 17	✓
	A341.3-1	14:00	7.03	29	600	125	-	-	252, 1 ± 18	212 ± 60	✓
	CZ34.2-2	14:17	7.16	29	2700	238	0.6	0.05	581 ± 3	513 ± 34	✓
	A341.4-1	14:35	7.04	30	610	118	-	-	265 ± 4	335 ± 83	✓
	A341.5-1	14:55	7.29	28	7200	210	-	-	1615 ± 10	1600 ± 13	✓

Rejection over-ride	Sample/ Std ID	Time - printout	UO/U Kcps	196 Kcps	206 cps	U ppm	204Pb ppb	f206 %	Age ±1σ (Ma) 206/238	207/206	Offsets OK?
	B41.6-1	15:14	7.10	30	99	42	-	-	122±2	690±129	✓
	C234.23	15:32	7.06	30	2700	242	0.3	0.03	562±4	612±36	✓
	A341.7-1	15:52	7.16	30	520	35	-	-	729±9	802±68	✓
	A.8-1	16:09	7.15	29	390	83	-	-	243±3	260±82	✓
	A.9-1	16:27	6.98	30	7100	851	1.7	0.05	433±3	415±23	✓
	A.10-1	16:47	7.20	29	7400	184	1.1	0.03	1830±11	1855±12	✓
	C22-4	17:07	7.01	30	2600	234	0.5	0.05	562±4	576±28	✓
	A.11-1	17:23	6.92	30	320	78	4.4	3.1	212±3	0±576	✓
	A.12-1	17:38	7.15	28	190	58	-	-	160±2	101±116	✓
	A.13-1	17:55	7.18	30	260	105	0.3	0.29	124±14	14±300	✓
	A.14-1	18:12	7.9	19 ↓	500	21	0.7	0.22	1471±36	1665±65	✓
	A.15-1	18:27	7.12	29	1400	303	3.8	0.62	239±13	115±86	✓
	C23-1	18:43	6.99	30	2600	229	-	-	568±5	612±46	✓
	A.6-1	19:01	6.95	29	200	105	1.4	1.53	103±16	0±662	✓
	A.7-1	19:16	7.29	28	830	102	0.9	0.25	417±3	179±100	✓
	A.18-1	19:33	6.94	30	1200	312	2.4	0.16	209±2	138±89	✓
	A.19-1	19:48	6.92	29	440	163	-	-	148±1	202±105	✓
	A.20-1	20:08	6.74	30	1600	28	-	-	1809±22	1847±24	✓
	C23-2	20:25	6.88	31	2400	223	0.6	0.06	554±4	595±38	✓
	B.1-1	20:43	7.04	29	3800	65	-	-	2551±19	2521±10	✓
	B.2-1	20:59	7.14	28	1700	94	-	-	924±12	1007±35	✓
	B.3-1	21:17	7.25	29	390	198	0.8	0.45	100±1	28±210	✓
	B.4-1	21:31	7.05	30	8300	156	0.8	0.02	2318±19	2354±14	✓
	B.5-1	21:47	7.06	29	350	252	0.7	0.43	735±06	0±0	✓
	C24-1	22:04	7.03	31	2500	228	3.1	0.28	551±3	180±46	✓

change name!

1°=5.8na

Rejection over-ride	Sample/ Std ID	Time - printout	UO/U Kcps	196 Kcps	206 cps	U ppm	²⁰⁴ Pb ppb	f ₂₀₆ %	Age ±1σ (Ma) 206/238	207/206	Offsets OK?
	B6-1	22:19	6.96	30	180	84	0.1	0.18	110±2	62±30g	✓
	B7-1	21:34	6.77	30	110	72	2.4	4.70	81±2	0±837	✓
	B8-1	22:49	7.31	28	110	62	1.3	2.67	93±2	0±670	✓
	B9-1	13:05	6.75	31	98	25	0.06	0.06	209±74	4228±246	✓
	B10-1	13:19	7.04	29	200	43	0.2	0.24	243±3	4048±34	✓
	C24-2	23:37	6.98	30	210	279	0.89	0.89	48±1	2220±90	X
	B11-1										
	B12-1	00:01	5.17	15	150	246	-	-	65±0.8	2933±75	X
	B13-1	00:52	7.25	29	2600	236	0.7	0.06	547±3	509±33	✓
	B14-1	01:11	7.11	30	2600	232	-	-	555±6	604±43	✓
	B15-1	01:30	7.10	30	33	37	0.0	0.30	45±∞	276±Non	✓
	C2 B.10-1	01:46	7.79	28	81	39	0.8	2.7	107±3	1447	✓
	C2.5-4	02:01	6.93	30	2400	228	1.0	0.09	552±5	506±36	✓
	B.11-1	02:17	7.18	29	1100	49	-	-	1068±35	1186±118	✓
	B.12-1	02:32	6.71	29	190	137	-	-	83±1	306±101	✓
	B.13-1	02:47	7.02	28	880	17	-	-	413±3	477±46	✓
	B.14-1	03:03	6.88	30	160	97	-	-	90±1	132±134	✓
	B.15-1	03:18	6.85	29	1300	283	0.2	0.03	248±1	228±50	✓
	C2.5-4	03:34	7.03	31	2500	224	0.7	0.07	549±6	533±48	✓
	B.16-1	03:49	7.77	28	75	54	-	-	75±1	0±146	✓
	B.17-1	04:04	6.81	28	140	71	0.7	1.10	111±2	0±585	✓
	B.18-1	04:19	7.24	27	1200	282	1.2	0.22	225±1	86±81	✓
	B.19-1	04:34	6.81	29	370	189	0.8	0.49	108±1	0±91	✓
	B.20-1	04:49	6.97	29	610	74	1.0	0.36	432±4	345±89	✓
	C25-5	05:05	7.20	28	2500	234	0.4	0.04	549±5	471±36	✓

206Pb → off-center
 time mass uncorrect.
 206-208
 Abandoned
 HV 300V
 O₂ - 4.8 volts!
 New Calibra²

exclude
 exclude

Rejection over-ride	Sample/ Std ID	Time - printout	UO/U Kcps	196 cps	206 cps	U ppm	204Pb ppb	f206 %	Age ±1σ (Ma) 206/238	207/206	Offsets OK?
	C1-1	05:21	7.33	27	96	589	0.9	0.20	89±0.4	109±103	✓
	C2-1	05:36	6.89	30	260	41	-	-	335±5	280±100	✓
	C3-1	05:51	7.03	28	670	71	-	-	511±5	520±83	✓
	C4-1	06:06	6.94	29	130	84	0.5	0.83	82±2	0±519	✓
	C5-1	06:22	6.95	29	1500	101	0.5	0.06	795±14	710±125	✓
	C75-6	06:39	6.97	29	2300	230	0.3	0.02	532.8772	449.7415	✓
	C6-1	06:54	7.16	28	320	38	-	-	455±6	507±85	✓
	C7-1	07:09	7.10	28	59	41	-	-	78±1	412±184	✓
	C8-1	07:24	7.17	29	260	165	0.5	inj	83±inj	0 NAN	✓
	C9-1										✓
	C10-1	08:04	6.89	29	86	49	0.2	0.62	95±2	0±385	✓
	C75-7	08:20	6.78	31	2400	217	0.4	0.04	554.86	621±34	✓
	C11-1	08:42	6.90	28	770	95	0.6	0.16	1577±88	1618±44	✓

Quit too early!