

UWA SHRIMP DATA LOG

Date: { 02/08/03 }
 { 26/08/03 }
 UWA Mount No.: 03-56
 Whose sample?: Noreen
 Operator(s): (F+MB)
 Indicate any change to the following: 196 204 bkg 206 207 208 238 248 254 270
 Precambrian Count time (secs): 2 2 10 10 10/20* 30/10* 10 5* 3 2 2
 Phanerozoic* Delay time (secs): 8 3 1 2 1 1 3 2 2
 Steel: Wein volts / nA = for O⁻; = for O₂⁻; = for NO⁻
 dead-time = 24 nanosecs expected resolution = >4200 actual resolution = 4820
 aperture = 30 microns retardation lens = HV+8 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 = 1.10 204-bkg = 0.045 204-206 = ~2.000
 206-207 = 1.004 206-208 = corrected
 Primary-epoxy = nA Primary-CZ3 = 0.8 nA PESABM-CZ3 = 19 pA
 Raster time (mins): 2 Raster aperture (microns): 40 No. of scans: 7

Comments: follows Broch.
 Stds on SPS-3 - share with BS
 1/8/03 | 2/8/03
 FR x 7 | 4
 PD95 x 5 | 5
 QMn x 2 | 2
 22234 x 1 | 1

M.P.N.

Rejection over-ride	Sample/ Std ID	Time - printout	UO/U ₂ 196 Kcps	203 196 Kcps	206 cps	270 UO ₂ ppm	204Pb 206 ppb	264 206 %	Age ± 1σ (Ma)	Offsets OK?
	Fr 1.8	11:28	1.33	2.84	1484	11.5	1.0	221	0.0589	✓
	PD95-1-1	11:59	1.17	2.70	116566	239	15.1	428	0.1067	✓
	A.1-1	12:34	1.43	1.78	756	0.99	0.8	4.60	0.1897	✓
	A.1-1b	12:55	1.48	2.92	937	1.34	0.1	5.04	0.1880	✓
	Fr. 1.9	13:20	1.34	2.89	1480	11.8	0.7	226	0.0602	✓
	PD95-1-2	13:55	1.18	2.74	114345	242	2.2	439	0.1041	✓
	B.1-1	14:54	1.33	1.54	597	8.78	3.2	5.38	0.2301	✓
	Fr. 1-10	15:23	1.34	2.92	1446	11.5	0.9	224	0.0588	✓

START ON 03-56
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lost time due to lots of aborted samples.

Rejection over-ride	Sample/ Std ID	Time - printout	UO/U ₂₀₅ 196 Kcps	206 cps	U ₂₀₂ ppm Kcps	204Pb ppb	Th ²³⁰ / U ²³⁸ %	Age ±1σ (Ma) 206/238 207/206	Offsets OK?	
	C.1-1	16:19	1.35	1.64	482	0.63	3.8	12.6	0.2369	✓
	C.3-1	17:08	1.51	1.55	611	0.83	2.6	15.5	0.2129	✓
	Fr.1-11	17:35	1.32	3.05	1472	11.9	0.7	228	0.0612	✓
steppy	D.2-1	18:23	1.69	2.45	2066	3.62	4.0	28.8	0.1955	✓
	Fr.1-12	19:07	1.28	3.2	1536	12.1	0.8	230	0.0578	✓
Scan 2 207 drop-out	PD95.2-1	19:47	1.26	3.01	133989	278	0.9	298	0.1042	✓
	K.1-1	20:18	1.43	2.77	3169	3.99	3.0	23.7	0.1872	✓
	K.1-1b	20:39	1.42	3.75	2488	3.29	1.8	21.1	0.1929	✓
	Fr.1-13	21:05	1.27	3.01	1498	12.0	0.6	236	0.0573 0.0573	✓
	Q14.1-1	21:32	1.36	3.38	1116	8.99	0.4	90.2	0.0570	✓
Should be K.1-2	K.2-1	21:58	1.38	2.85	2549	3.39	2.2	55.5	0.1886	✓
K.1-2b	K.2-1b	22:22	1.36	3.79	2381	3.37	1.6	47.9	0.1867	✓
1 ^o remained on whilst switched off. Turned off HV for Scans = fixed	Fr.1-14	22:59	1.27	3.25	1581	12.7	1.2	249	0.0574	✓
	22234.1-1	23:25	1.37	3.59 3.59	578	2.22	0.1	21.7	0.0792	✓
Scan 2 scans	K.1-2c	23:49	1.38	1.98	1949	2.51	3.5	28.4	0.1933	✓
	K.1-3	00:15	1.34	3.52	2654	3.57	1.5	29.8	0.1869	✓
	K.1-3b	00:37	1.30	4.03	2253	3.1	1.4	27.6	0.1841	✓
	Fr.1-15	01:03	1.28	3.42	1629	12.9	1.6	244	0.0604	✓
Scan 3 drop-out	PD95.3-1	01:29	1.21	3.22	95646	200	2.5	466	0.1039	✓
steppy	K.2-1	01:58	1.35	3.29	3592	4.5	1.1	34.2	0.1846	✓
	K.2-1b	02:20	1.27	4.40	3550	4.87	0.4	29.8	0.1823	✓
	Fr.1-16	02:46	1.26	3.54	1617	13.1	1.0	250	0.0598	✓
	G.2-1	03:32	1.41	5.22	870	1.15	1.2	10.8	0.1975	✓
	G.2-2	03:58	1.76	2.30	868	1.19	0.4	9.86	0.1909	✓
	Fr.1-17	04:24	1.29	3.73	1685	13.4	1.8	257	0.0619	✓

Rejection over-ride	Sample/ Std ID	Time - printout	UO/U ²⁰³ 196 Kcps	206 cps	UO ²⁰³ ppm	204Pb ppb	²⁰⁶ Pb %	Age (Ma) 206/238 207/206	Offsets OK?
	QMa.1-2	04:50	1.38	3.49	1330	10.6	0.4	140	0.0586 ✓
	Fr.2-1	05:15	1.29	3.21	1737	14.1	1.7	277	0.0604 ✓
	0.1-1	06:01	1.35	3.53	4849	6.52	0.5	16.7	0.1822 ✓
	0.1-1b	06:23	1.41	4.59	4599	6.34	1.7	24.1	0.1841 ✓
	Fr.2-2	06:48	1.26	3.78	1768	4.01	1.0	269	0.0619 ✓
	22234.1-2	07:13	1.25	4.02	695	2.77	0.4	23.14	0.0713 ✓
	0.1-2	07:40	1.45	3.34	6333	8.43	0.8	4.88	0.1810 ✓
	Fr.2-3	08:08	1.27	3.72	1727	13.8	2.2	270	0.0598 ✓
	PD95.3-2	08:35	1.21	3.39	89947	179	7.0	478	0.1038 ✓
6/8/03									
(5 fds on SPS-3)									
	Fr.1-1	10:15	1.30	1.44	739	5.93	0.3	116	0.0613 ✓
	PD95.1-1	10:40	1.20	1.37	42361	91.4	1.7	209	0.1039 ✓
	H.3-1	11:51	1.27	1.15	345	0.45	1.5	9.15	0.2355 ✓
	Fr.1-2	12:18	1.31	1.62	816	6.35	0.5	123	0.0627 ✓
	1.1-1	13:26	1.14	1.17	887	1.20	1.1	14.7	0.1946 ✓
	1.1-1b	13:50	1.26	1.58	801	1.05	0.3	17.6	0.1835 ✓
	Fr.1-3	14:17	1.30	1.59	834	6.4	0.5	126	0.0608 ✓
	PD95.2-1	14:44	1.28	1.42	75714	154	1.2	184	0.1045 ✓
	1.1-1c	15:13	1.07	1.24	423	0.60	0.4	20.5	0.1879 ✓
	Fr.1-1	15:47	1.31	1.33	644	0.80	2.4	58.7	0.2104 ✓
	Fr.1-4	16:15	1.28	1.60	850	6.74	0.9	133	0.0621 ✓
	Fr.1-4	16:46	1.30	1.88	849	6.74	0.1	47.9	0.0594 ✓
	QMa.1-1								

Scan 5
207 dropout

→ Very high ²⁰⁴Pb, but don't have anything to check from!

START ON 03:56

* Note rise in two analyses only had 6 scans

7 scans

Had to abort many analyses in here due to ²⁰⁴Pb

~~Scan 5~~
1st intensity dropped slightly at beginning of analysis but remained very stable during analysis

Marginal ²⁰⁴Pb

Rejection over-ride	Sample/ Std ID	Time - printout	UO/U ₂₀₃ 196 Kcps	206 cps	U ₂₀₂ ppm	204Pb ppb	Th ₂₀₂ %	Age ± 1σ (Ma) 206/238 207/206	Offsets OK?
	L.1-1	17:17	1.4	1.31	518	0.62	0.6	46.0	0.1998 ✓
	L.1-1b	17:42	1.34	1.55	491	0.61	0.7	43.5	0.2001 ✓
	Fr.1-5	18:08	1.29	1.67	888	6.95	0.6	136	0.0585 ✓
	PD9S.2-2	18:35	1.22	1.59	79164	167	1.4	200	0.1041 ✓
	M.1-1	19:04	1.32	1.52	1976	2.62	1.5	36.2	0.1875 ✓
	M.1-1b	19:35	1.36	1.98	1764	2.55	0.7	41.4	0.1832 ✓
	M.1-1c	20:00	1.27	2.21	1939	2.76	1.0	38.6	0.1841 ✓
	Fr.1-6	20:29	1.33	1.69	909	7.14	0.4	141	0.0586 ✓
	22234.1	20:58	1.59	1.92	329	1.3	0.2	3.91	0.0734 ✓
	N.1-1	21:28	1.45	1.39	2501	3.26	0.9	7.55	0.1849 ✓
	N.1-1b	21:54	1.43	1.47	1894	2.35	5.2	8.79	0.2147 ✓
	Fr.1-7	22:21	1.30	1.84	979	7.59	0.9	149	0.0605 ✓
	PD9S.1-3	22:47	1.23	1.84	87394	181	1.1	190	0.1044 ✓
	P.1-1	23:21	1.48	1.07	823	1.14	1.0	22.5	0.1928 ✓
	P.1-1b	23:46	1.34	1.57	831	1.14	0.4	18.8	0.1888 ✓
	P.1-1c	00:15	1.28	1.93	892	1.27	0.5	15.4	0.1820 ✓
	Fr.1-8	00:42	1.32	1.70	959	7.30	0.3	144	0.0602 ✓
	PD9S.3-1	01:09	1.19	1.53	4037	84.5	1.0	286	0.1046 ✓
	Q.1-1	01:38	1.32	1.27	786	1.10	1.4	22.2	0.1917 ✓
	Q.1-1b	02:04	1.26	2.15	981	1.43	0.0	18.3	0.1821 ✓
	Q.1-1c	02:30	1.08	2.31	1151	1.79	0.4	20.6	0.1845 ✓
	Fr.1-9	02:57	1.35	1.83	924	7.26	0.7	138	0.0637 ✓
	22234.2	03:24	1.40	2.06	324	1.17	0.1	3.56	0.0766 ✓
	K.1-10	04:45	1.27	1.78	910	7.1	0.5	139	0.0600 ✓

1st two scans are excellent...

Nasty inclusion appeared during this analysis
 Let it run again to see if it would disappear but it didn't!

Same problem as with J.1-1. 1° stable during analysis. Interestingly, 1° intensity dropped to exactly the same level as in J.1-1.

Note: 1° stayed at lower intensity for all P.1-1 analyses.

Note: Aborted several history analyses on crap grains here

Mount change 05:55 in

