

UWA SHRIMP DATA LOG

Date: 04/05/03 UWA Mount No.: 03-13 / C77 / 03-19 Whose sample?: Noreen Operator(s): F + NV + LG + MB + BS

Indicate any change to the following:

202-203	204	bkg	206	207	208	232	254	264	270
196	204					238	248	264	270

Precambrian Count time (secs): 2 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 = for O⁻; = for O₂⁻; = for NO⁻
 dead-time = 24 nanosecs expected resolution = >4200 actual resolution = 5170
 aperture = 30+ microns retardation lens = HT+5 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: ²⁰³196-204 = 1.005 204-bkg = 0.045 204-206 = ~1.999 ~1.997
 206-207 = 1.001 (2000) 206-208 = centered

Primary-epoxy = ~0.5 nA Primary-~~CS~~^{Fr} = 0.73 nA PESABM-~~CS~~^{Fr} = 17 pA
 Raster time (mins): 2 Raster aperture (microns): 40 No. of scans: 7

Comments: 5/03

Fr 11
Qma 2
PD 6

Fr 716 }
2mer — Qma 716 } ca. 0.056
PD 716 } 0.107

5 tabs on SPS-2 (see attached sheets)
then SPS-3 (box 03-19)

Rejection over-ride	Sample/Std ID	Time-printout	UO/UO ₂ 270/254	203 196 Kcps	206 Kcps	270 UO ₂ ppm Kcps	204Pb ppb cps	264 270 206 204 1 cps	Age 1σ (Ma) 206/238 270/206	Offsets OK?	
	Fr-1-1	11:12	1.25	2.9	1.5	12.1	1.3	246	0.122	0.060	✓
	PD95-1-1	11:41	1.12	3.7	1.30	29.5	2.1	440	0.465	0.105	✓
	Qma-1	12:05	1.31	3.5	1.3	11.0	0.3	116	0.119	0.058	✓
	03-13, H4-1	12:39	1.30	3.2	0.7	10.0	0.6	3.2	0.779	0.191	✓
	H4-1 ¹⁶	13:03	1.69	3.8	0.5	0.8	0.6	3.8	0.648	0.186	✓
	Fr-1-2	13:36	1.24	3.3	1.7	13.7	1.4	281	0.121	0.058	✓
	PD95-1-2	14:07	1.10	3.2	69.6	155	2.3	537	0.448	0.104	✓
	H6-1	14:40	0.86	2.7	0.15	0.2	0.2	13.4	0.822	0.193	✓

need to change label →

ARC dropped out on last scan →

5 scans of data kept.

Rejection over-ride	Sample/ Std ID	Time - printout	UO/UO ₂ ²⁰³ 186 _{230/254} Kcps	206 Kcps	²³⁰ UO ₂ ppm Kcps	204Pb ppb cps	²⁶⁴ ThO ₂ ppb ₂₀₆ % Kcps	Age 110 (Ma) _{206/238} ₂₇₀	207/206	Offsets OK?	
	03-13 H6-1b										
	Fr 1-3	15.44	1.23	3.56	1.7	14.2	1.4	290	0.121	0.059	✓
	PD951-3	16.11	1.27	3.9	82.1	182	2.6	657	0.125	0.124	✓
	D1-1	16.47	1.33	3.7	0.07	0.09	0.2	19.7	0.739	0.205	✓
	D1-1b	17.14	1.15	3.6	0.16	0.19	0.3	37.4	0.816	0.214	✓
	Fr 1-4	17.43	1.16	3.7	1.8	15.0	0.9	315	0.120	0.059	✓
	PD951-4	18.09	1.04	3.9	89.4	200	4.1	696	0.441	0.104	✓
	L1-1	19.10	1.17	4.4	0.04	0.06	0.5	1.2	0.742	0.301	✓
	L1-1b	19.37	1.42	4.7	0.05	0.06	0.4	0.9	0.805	0.223	✓
	Fr 1-5	20.04	1.18	3.9	1.9	16.1	1.7	329	0.12	0.059	✓
	Qmal-2	20.29	1.28	4.5	1.3	11.3	1.1	134	0.12	0.059	✓
	L2-1	21.23	1.08	4.1	0.05	0.05	0.4	0.6	0.975	0.251	✓
	L2-1b	21.48	0.98	4.1	0.08	0.04	0.3	0.5	0.788	0.257	✓
	PD951-5	22.14	1.08	4.2	98.9	220	4.3	732	0.449	0.104	✓
	Qmal-3	22.41	1.35	4.4	1.7	13.5	0.5	150	0.127	0.06	✓
	L3-1	23.19	1.33	4.6	0.01	0.05	0.6	0.9	0.225	0.259	✓
	L3-1b	23.44	1.18	5.7	0.05	0.04	0.2	1.0	1.172	0.246	✓ see across
	Fr 1-6	00.11	1.18	4.5	2.2	17.8	1.5	369	0.123	0.06	✓
	PD951-6	00.36	1.11	4.2	142	315	3.4	607	0.449	0.104	✓
	L4-1	01.05	1.05	4.4	0.03	0.02	0.6	1.4	1.196	0.46	✓
	L4-1b	01.32	1.00	5.6	0.03	0.03	1.0	0.2	1.224	0.43	✓ see across
	Fr 1-7	01.58	1.20	4.6	2.3	18.1	2.0	373	0.125	0.06	✓
	Qmal-4	02.26	1.25	4.6	1.7	14.1	0.5	137	0.118	0.06	✓
	L5-1	03.19	1.25	3.7	0.03	0.03	0.3	0.9	1.015	0.43	✓
	L5-1b	03.44	0.69	5.9	0.04	0.03	0.6	1.4	1.352	0.35	✓ see across

204-bg 0.042
 (this is OK)

206 high by 0.003

OK

204-bg 0.049
 206/207 = 1.004

206/204 1.094

204-bg 0.04997

↓

Rejection override	Sample/ Std ID	Time - printout	UO/U Z 206/254	203 Kcps	206 Kcps	270 U ₂ Kcps	204Pb cps	266 % Kcps	Age (Ma) 206/238 270	207/206	Offsets OK?
	PP951-7	04:10	0.78	1.5	569	14.9	1.1	295	0.382	0.104	✓
	PP951-7	05:19	1.19	4.7	1.3	5.7	0.5	105	0.150	0.05	✓
	PP951-8	05:06	1.15	3.8	1.4	26.7	2.3	551	0.104	0.104	✓
	FR1-8	07:32	1.30	4.7	2.3	18.1	1.9	363	0.127	0.06	?
	Qmal-6	07:57	1.30	4.8	1.6	12.3	0.4	145	0.126	0.06	✓
	L1-6	08:28	1.25	2.8	0.04	0.05	0.9	0.10	0.895	0.32	✓
	L6-10	08:55	1.01	1.9	0.03	0.04	0.6	1.0	0.756	0.35	✓
	FR1-9	09:21	1.16	4.7	2.3	18.7	0.5	351	0.123	0.06	✓
	PD951-9	09:46	1.13	4.3	132	290	0.1	637	0.45	0.104	✓
	FR1-10	11:19	1.19	4.8	2.3	15.7	0.6	385	0.122	0.06	✓
	L3-2a	12:09	1.05	4.8	0.05	0.04	0.4	1.2	1.249	0.375	effects
	L3-2b	12:36	1.05	4.4	0.05	0.04	0.4	0.6	1.102	0.390	1.12 ± 0.03 0.028 ± 0.01
	ARC Overgraped out										
	Fr. 1-11	14:49	1.19	5.9	2.5	20.7	1.3	417	0.121	0.06	✓
	C77h.H	15:19	1.47	1.9	5.5	3.8	195	104	1.451	0.58	✓
	C77g.H	15:58	1.24	4.1	8.3	9.3	48	186	0.893	0.30	✓
	C77f.H	16:48	1.12	4.6	2.0	2.4	16	158	0.826	0.257	✓
	C77f.Hb	17:0	0.90	5.6	2.4	3.0	62	132	0.783	0.430	✓
	Fr. 1-12	17:37	1.18	5.4	2.5	20.7	1.8	427	0.123	0.061	✓
	PD951-10	18:01	1.05	5.0	15.9	340	3.1	804	0.47	0.104	✓
	Fr. 1-13	18:25	1.19	5.5	2.7	20.8	1.0	424	0.129	0.056	✓
	PD951-10	18:51	0.98	4.5	135	303	3.6	751	0.445	0.104	✓

Low values
 e discarded
 repeat extra
 set
 leaks & magnet
 204/09 = 0.057
 cPo₂ ~ 5000 to 6000
 * Should be L6-10
 CaPo₂ ~ 4000
 w) fixed Bkgd-204
 ratio

13 L3-2 FR1-10
 label to Lc
 label to Ld

1-11
 C-93

SAMPLE CHANGE
 SPS3 standard mount
 C93, 03-19 unknowns.

Continues from 03-13

Mount/sample No: ~~C93~~/03-14 Date: 1-4/May/03 Page No: 4

Rejection over-ride	Sample/ Std ID	Time - printout	UQ/UO 270/254	203 188 Kcps	206 Kcps	270 Uo ppm Kcps	204Pb ppm Kcps	264TlO. f206 %	Age ± 1σ (Ma) 206/208 270	207/206	Offsets OK?
	FrSP33-1	19:32	1.38	4.6	2.7	20.8	2	404	0.128	0.060	✓
	dSP33-1	19:58	1.20 1.33	4.7	252	513	3.4	601	0.491	0.104	✓
	FrSP33-1-2	21:07	1.38	4.8	252	176 176	9.5	777	0.131	0.059	-
	0319A.3-1	22:58	0.51	2.5	0.17	1.2	1.5	44	0.136	0.267	✓
	0319A.3-2	23:20	1.10	4.1	0.14	0.2	0.4	36	0.760	0.290	✓
	FrSP33-1-3	23:45	1.41	3.8	1.96	14	1.4	268	0.137	0.060	✓
	0319A.2-1	00:32	0.67	2.8	0.66	8.3	4.9	56	0.079	0.258	-
	0319A.2-1b	00:57	0.71	2.7	0.28	1.4	4.9	26	0.205	0.391	✓
	Qma. 201	01:24	1.02	2.7	0.92	7.1	0.4	76	0.131	0.067	✓
	0319A.2-2	01:55	1.06	4.1	0.14	0.05	1.3	56	0.297	0.316	✓
	0319A.2-2b	02:15	1.18	4.5	0.14	0.41	0.7	50	0.345	0.309	✓
	Fr. 1-3	02:39	1.44	2.9	1.6	12	1.4	225	0.132	0.062	✓
	0319A.4-1	03:31	0.70	0.6	0.6	13	4.9	298	0.048	0.227	-
	0319A.5-1	03:58	0.54	0.2	0.7	7.1	5.1	312	0.094	0.171	✓
	pd. 1-2	04:44	1.33	1.1	67	123	0.5	148	0.527	0.104	✓
	031C.3-1a	05:16	1.23	5.3	0.7	1.2	0.3	34	0.628	0.153	✓
	C.3-1b	05:36	1.28	6.5	0.5	0.9	1.5	28	0.574	0.148	✓
	C.3-1c	05:58	1.18	5.1	0.4	0.7	0.3	23	0.604	0.157	✓
	Fr. 1-4	06:23	1.25	5.2	2.8	22	2.3	44	0.126	0.059	✓
	C.1-2a	06:51	1.26	5.1	1.3	2.5	0.3	37	0.714	0.168	✓
	C.1-2b	07:12	1.24	6.3	1.2	2.0	0.2	36	0.612	0.171	✓
	C.1-2c	07:33	1.15	5.1	1.2	1.9	-	70	0.620	0.166	✓
	Qma 202	07:58	1.28	5.6	2.2	18	0.3	170	0.125	0.056	✓
	Fr. 2-1	08:22	1.40	3.8	2.0	15	1.8	279	0.135	0.060	✓
	C.1-3a	08:42	1.26	5.3	0.9	1.4	0.7	41	0.647	0.168	✓

= 3-16 →

(renamed 1-5)

actually grain No. 1 (rename)

Mount/sample No: ~~23~~/0319

Date: 1-4 May 2003

Page No: 5

Rejection over-ride	Sample/ Std ID	Time - printout	UO/Uo		206 Kcps	204Pb		206/206 %	Age ± 1σ (Ma)		Offsets OK?
			270/254	203 Kcps		206 Kcps	204Pb		206/238 270	207/206	
	C.1-3b	09:09	1.14	5.7	0.7	1.3	0.2	31	0.521	0.170	✓
	C.1-3c	09:29	1.15	4.9	0.7	1.1	0.3	21	0.628	0.166	✓
	pd 1-3	09:57	1.21	5.3	2.54	5.09	2	574	0.498	0.104	✓
	C.1-2a	10:24	1.31	5.3	3.0	4.3	0.8	34	0.689	0.167	✓
	b	10:44	1.27	6.3	1.8	2.3	0.3	23		0.158	✓
	c	11:05	1.20	4.4	0.9	1.3	0.2	16		0.164	✓
	A.1-5	11:39	1.21	5.5	2.8	2.3	2.7	4.52	0.125	0.059	✓
	C.3-1a	12:09	1.16	1.5	0.2	0.4	0.5	15	0.658	0.221	✓
	C.3-1b	12:29	0.9	1.2	0.2	0.3	1.2	14	0.704	0.218	✓
	C.3-2	12:53	1.36	3.8	0.5	0.7	0.9	0.8	0.718	0.200	✓
	C.3-2b	13:14	1.13	4.6	0.4	0.6	0.1	0.8		0.179	✓
	pd 2-1	13:39	1.06	5.2	1.57	3.33	4.3	838	0.456	0.103	✓
one spot only (204)	C.4-4	14:04	1.11	3.6	0.4	0.7	2.4	9.4	0.689	0.2312	✓
	C.1-4a	14:30	1.23	5.3	0.9	1.8	1.0	48	0.509	0.1878	✓
	C.1-4b	14:52	1.10	6.2	0.7	1.3	0.7	44	0.566	0.149	✓
	C.1-5	15:16	1.23	4.8	0.5	1.0	0.9	35	0.522	0.156	✓
	C.1-5b	15:36	1.2	5.8	0.5	1.2	0.8	34		0.146	✓
	A.1-6	15:59	1.2	5.4	2.8	2.2	3.6	448	0.038	0.126	✓
small man.	b.1-1	16:47	0.7	2.8	0.2	0.2	1.6	27	0.868	0.212	✓
	b.1-1b	16:27	0.5	1.13	0.4	0.5	1.8	49	0.793	0.204	✓
	pd 2-1	18:11	1.11	4.6	2.3	1.9	1.4	400	0.120	3.060	✓
	f.1-1	19:05	1.24	5.3	1.39	1.52	1.81	106	0.917	0.330	✓
	o.1-1	19:31	1.22	5.1	6.3	2.2	3.50	121	2.85	0.79	✓
	C.1-6	20:14	1.25	5.2	1.2	1.8	0.9	15.1	0.688	0.168	✓
	C.1-6b	20:34	1.27	6.2	1.1	0.0	-	12.1		0.168	✓
	C.1-7	21:00	1.22	4.6	1.8	2.7	0.8	20	0.673	0.1730	✓
	C.1-7b	21:20	1.23	1.8	1.8	2.6	0.2	14.4	0.712	0.1683	✓

on 2-1-1)

1.6

one spot only
(204)

1.4

small man.

2.2