

UWA SHRIMP DATA LOG

Date: 19/8/00 UWA Mount No.: A-43 Whose sample?: Daniela V. Operator(s): IF + MG

Indicate any change to the following: ¹⁰⁴ 196 204 bkg 206 207 208 238 248 254 270

Precambrian Count time (secs): 2 2 - 10 - 10 - 10/20* 30/10* 10 5 5 2

Phanerozoic* Delay time (secs): 6 8 1 3 - 1 - 2 - 1 - 1 3 2 2

Steel: Wein volts / nA = for O⁻; = for O₂⁻; = for NO⁻

dead-time = 32 nanosecs expected resolution = >4200 actual resolution = 4932

aperture = 30 microns retardation lens = 10014 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: ⁴196-204 = 10.166 204-bkg = 0.045 204-206 = 1.998

206-207 = 1.000 206-208 = 2.000

Primary-epoxy = nA Primary-CZ3 = 0.25 nA PESABM-CZ3 = pA

Raster time (mins): 2 Raster aperture (microns): 70 No. of scans: 6

Comments: follows A-07, A-49

Some spots have Zr₂O⁺ / Y₂O > 200% of xtc, but none of them gives old t, so it might not be significant

2.760, or 10

Rejection override	Sample/ Std ID	Time - printout	UO/U	¹⁴⁴ 196 Kcps	206 Kcps	UO ppm Kcps	204Pb ppb cps	f206 %	Age ±1σ (Ma) 206/238	207/206	Offsets OK?
	<u>xtc.7-1</u>	<u>10:30</u>	<u>8.99</u>	<u>18.4</u>	<u>20.6</u>	<u>50.3</u>	<u>0.1</u>	<u>0.0</u>	<u>3.69</u>	<u>2644</u>	<u>-</u>
	<u>xtc.5-1</u>	<u>10:53</u>	<u>9.02</u>	<u>18.3</u>	<u>27.4</u>	<u>60.6</u>	<u>0.2</u>	<u>.01</u>	<u>4.08</u>	<u>2634</u>	<u>-</u>
<u>? Zr</u>	<u>A1a</u>	<u>11:28</u>	<u>8.88</u>	<u>21.1</u>	<u>9.3</u>	<u>38.4</u>	<u>0.2</u>	<u>.02</u>	<u>2.15</u>	<u>1687</u>	<u>-</u>
	<u>A2a</u>	<u>11:51</u>	<u>9.56</u>	<u>20.0</u>	<u>7.2</u>	<u>33.1</u>	<u>0.4</u>	<u>.10</u>	<u>2.07</u>	<u>1632</u>	<u>✓</u>
<u>last scan (+1)</u>	<u>A3a</u>	<u>12:14</u>	<u>9.35</u>	<u>22.4</u>	<u>7.8</u>	<u>33.0</u>	<u>0.2</u>	<u>.03</u>	<u>2.21</u>	<u>1715</u>	<u>✓</u>
	<u>A3b</u>	<u>12:31</u>	<u>8.42</u>	<u>19.2</u>	<u>5.9</u>	<u>27.0</u>	<u>0.1</u>	<u>.03</u>	<u>1.84</u>	<u>1675</u>	<u>✓</u>
	<u>A4b</u>	<u>13:06</u>	<u>9.15</u>	<u>22.0</u>	<u>8.1</u>	<u>35.3</u>	<u>0.2</u>	<u>.04</u>	<u>2.11</u>	<u>1608</u>	<u>✓</u>
	<u>xtc.11-3</u>	<u>13:33</u>	<u>9.51</u>	<u>17.3</u>	<u>33.6</u>	<u>70.5</u>	<u>0.1</u>	<u>.00</u>	<u>4.54</u>	<u>2648</u>	<u>✓</u>

Rejection over-ride	Sample/ Std ID	Time - printout	UO/U 196 Kcps	¹⁹⁴ 206 Kcps	UO ppm Kcps	204Pb ppb Cps	f206 %	Age ±1σ (Ma) 206/238	207/206	Offsets OK?	
	B 1a	13:59	8.87	24.6	0.7	3.6	0.1	0.19	1.83	1668	✓
	B 2a	14:21	9.79	24.0	0.7	4.4	0.5	0.85	1.73	1601	✓
	B 3a	14:42	9.65	22.2	4.2	21.6	1.2	.44	1.86	1639	✓
?Zr	B 4a	15:03	9.68	21.2	11.6	50.6	1.6	.21	2.21	1667	✓
last scan	B 5a	15:23	9.20	22.2	6.4	26.0	2.8	.01	2.27	1729	✓
	xtc.11-4	15:47	9.16	18.4	20.9	49.5	0	.01	3.88	2617	✓
?Zr	B 1a	16:21	9.49	18.6	8.9	42.6	5.6	.11	1.98	1529	✓
None handles	Scan 2 C 2a	16:42	9.39	22.6	7.2	31.6	0.3	.05	2.13	1650	✓
	Scan 1 C 3a	17:03	9.38	21.5	9.8	40.8	0.8	.13	2.27	1754	✓
	C 3b	17:20	8.30	19.2	7.7	33.6	0.1	.02	1.91	1619	✓
last 209	C 4a	17:41	9.05	23.0	6.2	26.9	0.1	.02	2.08	1682	✓
last scan	xtc.11-5	18:02	9.32	16.9	29.9	68.7	0.1	.01	4.18	2666	✓
	C 5a	18:23	9.06	24.3	5.94	25.2	0.1	.02	2.14	1674	✓
	C 6a	18:44	8.80	24.3	2.66	13.1	0.1	.04	1.79	1683	✓
	C 6b	19:02	8.02	17.3	1.68	10.3	0.1	.05	1.31	1671	✓
	C 7a	19:23	8.95	23.8	4.21	18.5	0	-	2.04	1646	✓
	C 8a	19:44	9.08	25.8	5.43	23.0	0.1	.02	2.14	1662	✓
	xtc.13-3	20:08	9.48	18.9	16.1	37.5	0.1	.01	4.06	2637	✓
delete range 209	Very rough C 9a	20:29	8.69	21.9	5.26	24.4	0.8	.24	1.87	1531	✓
?Zr	no flux rough D 1a	20:55	9.02	24.6	4.76	20.6	0.1	0.01	2.09	1655	✓
	D 2a	21:15	9.98	20.8	17.8	68.0	0.6	.05	2.61	1595	✓
	D 3a	21:36	8.99	22.8	7.13	29.6	0.1	.03	2.17	1669	✓
	no flux rough D 4a	21:56	7.29	21.9	4.20	24.2	0.5	.16	1.27	1646	✓
Scan 2 Some Boys 204	xtc.13-4	22:17	8.84	19.4	14.6	33.7	0.3	.03	3.83	2623	✓
	D 5a	22:37	9.86	23.9	2.52	10.8	0.0	.04	2.29	1606	✓

Rejection over-ride	Sample/ Std ID	Time - printout	UO/U 196 Kcps	206 Kcps	UO ppm Kcps	204Pb ppb Cps	f206 %	Age ±1σ (Ma)		Offsets OK?	
								206/238	207/206		
	D.6a	22:58	9.15	22.8	7.17	29.2	0.0	.01	2.25	1680	✓
	D.6b	23:15	8.33	19.1	5.43	24.7	0.0	-	1.83	1737	✓
Some Zr	E.1a	23:44	8.24	22.4	7.93	37.8	1.4	.26	1.73	1605	✓
last scan	E.2a	00:07	9.72	23.7	7.76	28.6	0.1	.02	2.64	1621	✓
	xtc.13-5	00:28	9.02	20.6	8.49	21.4	0.0	.01	3.57	2667	✓
? Zr	E.3a	00:50	9.10	22.8	8.18	41.9	2.8	.56	1.78	1458	✓
	E.4a	01:10	9.66	23.2	7.63	29.7	0.8	.15	2.48	1630	✓
curved scan	E.5a	01:30	8.71	22.5	8.66	35.7	0.1	.01	2.11	1642	✓
last scan	E.6a	01:54	8.38	23.5	4.66	24.9	11.7	4.0	1.56	1467	✓
	E.7a	02:15	9.21	23.0	8.16	32.8	0.0	-	2.29	1662	✓
Galvins Sample	xtc.13-6	02:37	8.64	19.9	12.1	30.3	0.0	0.01	3.45	2638	✓
	H.1a	03:06	8.95	20.9	34.7	21.6	0.1	.03	1.44	1205	✓
	H.1b	03:23	8.56	16.2	2.56	18.2	0.0	-	1.21	1213	✓
	H.2a	03:45	8.75	21.7	2.26	14.7	0.1	.08	1.34	1204	✓
	M.2b	04:01	8.06	17.8	1.89	14.3	0.1	.08	1.06	1191	✓
Back to Dans Sample	C.10a	04:29	9.05	24.6	4.2	18.3	0.0	.01	2.08	1714	✓
	xtc.13-7	04:48	9.03	18.8	16.6	40.5	0.1	.01	3.71	2639	✓
	C.11a	05:12	8.27	24.2	2.29	12.9	0.7	.46	1.46	1443	✓
? Zr	C.12a	05:33	8.71	20.9	6.16	40.1	3.8	1.0	1.34	1319	✓
	C.13a	05:53	9.08	23.7	3.58	16.8	0.1	.04	1.94	1686	✓
	C.13b	06:10	8.29	19.8	2.47	14.7	0.1	.10	1.39	1569	✓
	xtc.10-2	06:40	8.86	19.4	8.70	23.5	0.1	.01	3.28	2648	✓
? Zr	B.6a	07:03	9.04	24.9	4.65	20.6	0.1	.03	2.04	1709	✓
? Zr	B.6b	07:19	8.32	21.2	3.18	17.2	0.0	.02	1.54	1655	✓
	B.7a	07:39	9.36	23.3	7.23	28.7	0.0	.02	2.36	1675	✓
Some 208, 204	xtc.10-3	08:02	8.56	21.0	12.3	30.8	0.2	.03	3.42	2623	✓

Some Zr
last scan

? Zr
last scan

curved scan
last scan

Galvins Sample
Scan 1

Back to Dans Sample

? Zr

? Zr

? Zr

Some 208, 204