

### UWA SHRIMP DATA LOG

Date: 4/8/01 UWA Mount No.: B-42 Whose sample?: NK Operator(s): McN + NK

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 = 168/400V/2.9 for  $O_2^-$ ; = 203/49V/1.4 for  $O_2^-$ ; = 290/70V/7.0 for  $NO_3^-$   
 dead-time = 32 nanosecs expected resolution = >4200 actual resolution = 4885  
 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 = 8.169 204-bkg = 0.045 204-206 = 2.000 ± 5  
 206-207 = 1.000 206-208 = 2.000

Primary-epoxy = 1.3 nA Primary-CZ3 = 1.75 nA PESABM-CZ3 = 21.5 pA  
 Raster time (mins): 1 Raster aperture (microns): 7.5 No. of scans: 5

Comments:  
 -  $O_2^-$  BITS → 221  
 - 1.6 nA on silicon

SDA  
3578 ± 4

Rejection over-ride	Sample/Std ID	Time - printout	UO/U	196 Kcps	206 cps	U ppm	204Pb ppb	f <sub>206</sub> %	Age ±1σ (Ma) 206/238	207/206	Offsets OK?
	<u>C2.14-1</u>	<u>9:56</u>	<u>7.39</u>	<u>6.9</u>	<u>930</u>	<u>238</u>	<u>0.1</u>	<u>.005</u>	<u>572 ± 8</u>	<u>599 ± 28</u>	✓
	<u>C2.14-2</u>	<u>10:11</u>	<u>7.18</u>	<u>7.3</u>	<u>950</u>	<u>235</u>	<u>1.2</u>	<u>.10</u>	<u>587 ± 7</u>	<u>471 ± 38</u>	✓
	<u>SDA.1-1</u>	<u>10:28</u>	<u>7.13</u>	<u>7.0</u>	<u>5300</u>	<u>171</u>	<u>13.0</u>	<u>.19</u>	<u>3652 ± 28</u>	<u>3570 ± 5</u>	✓
	<u>1-1</u>	<u>10:44</u>	<u>6.96</u>	<u>7.0</u>	<u>500</u>	<u>19</u>	<u>0.5</u>	<u>.07</u>	<u>3372 ± 88</u>	<u>3465 ± 16</u>	✓
	<u>C2.14-3</u>	<u>11:00</u>	<u>6.91</u>	<u>7.6</u>	<u>900</u>	<u>229</u>	<u>-0.8</u>	<u>-</u>	<u>577 ± 7</u>	<u>624 ± 28</u>	✓
	<u>2-1</u>	<u>11:20</u>	<u>6.79</u>	<u>7.6</u>	<u>1.7</u>	<u>60</u>	<u>2.3</u>	<u>.0103</u>	<u>3427 ± 43</u>	<u>3290 ± 82</u>	✓
<u>UB42.</u>	<u>3-1</u>	<u>11:36</u>	<u>7.54</u>	<u>6.9</u>	<u>7.2</u>	<u>27.4</u>	<u>0.5</u>	<u>.00089</u>	<u>3082 ± 64</u>	<u>3050 ± 15.2</u>	✓
	<u>4-1</u>	<u>11:53</u>	<u>6.91</u>	<u>6.9</u>	<u>1.2</u>	<u>51</u>	<u>0.1</u>	<u>.0004</u>	<u>3133</u>	<u>3096 ± 34</u>	✓

Mount/sample No: ..... B42

Date: ..... 4/8/01

Page No: ..... 2

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?
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	5-1	12.07	7.16	6.9	6.7	22.8	0.2	0.0017	3544	3465.57	✓
	6-1	12.23	7.04	7.2	1.1	38.6	1.1	0.0073	3516 ± 56	3437 ± 10	✓
	7-1	12.37	7.17	7.2	5.5	21.9	1.4	0.0192	3086 ± 68	3075 ± 20	✓
	8-1	12.53	6.35	7.3	1.7	6.7	0.8	0.0324	3473 ± 147	3471 ± 36	✓
	<del>C2-14-4</del>	<del>13.08</del>	<del>7.32</del>	<del>6.8</del>	<del>9.4</del>	<del>23.91</del>	<del>-0.1</del>	<del>0.0011</del>	<del>6.01 ± 58</del>	<del>583 ± 27.7</del>	✓
	9-1	13.23	6.77	7.3	1.5	56.7	0.8	0.0040	3373 ± 53	3172 ± 117	✓
	10-1	13.38	6.57	5.7	2.0	10.3	-0.8	0.0214	3309 ± 129	3417 ± 27.6	✓
	11-1	13.54	7.10	6.9	4.9	19.5	0.7	0.0101	3212 ± 78	3027 ± 20	✓
	12-1	14.10	6.71	7.6	1.1	42.5	2.1	0.0142	3214 ± 56	3080 ± 15	✓
	13-1	* no printout *									
	14-1	15.06	4.68	4.1	1.1	10	0.5	0.0123	3752 ± 58	3420 ± 12.2	✓
	<del>C2-14-5</del>										
	<del>C2-14-6</del>	<del>15.52</del>	<del>6.92</del>	<del>7.3</del>	<del>8.9</del>	<del>235.2</del>	<del>2.5</del>	<del>0.00212</del>	<del>578 ± 10</del>	<del>520 ± 56</del>	✓
	15-1	16.07	6.75	7.3	2.6	121.4	2.3	0.0064	2832 ± 27	2963 ± 8.5	✓
	16-1	16.22	6.96	6.7	1.1	41.3	0.2	0.0012	3525 ± 62	3420 ± 11.4	✓
	17-1	16.38	6.94	7.8	5.4	21.5	1.7	0.0238	3129 ± 72	3083 ± 20	✓
	18-1	16.53	6.35	7.3	6.4	29.3	3.3	0.0352	3045 ± 57	3107 ± 19	✓
	19-1	17.08	6.63	7.3	9.9	36.3	1.6	0.0116	3465 ± 58	3462 ± 14	✓
	20-1	17.23	7.14	6.6	1.1	39.3	1.2	0.0078	3601 ± 60	3453 ± 14	✓
	<del>C2-13-1</del>	<del>17.39</del>	<del>7.05</del>	<del>7.1</del>	<del>8.6</del>	<del>224.6</del>	<del>1.0</del>	<del>0.00689</del>	<del>586 ± 6.6</del>	<del>608 ± 48.7</del>	✓
	21-1	17.54	6.77	7.2	4.8	19.2	1.8	0.0275	3207 ± 79	3092 ± 25	✓
	22-1	18.09	6.77	6.7	3.2	14.1	0.3	0.0071	3173 ± 113	2917 ± 29.9	✓
	23-1	18.24	6.97	6.3	1.6	6.2	3.0	0.1207	3572 ± 15	3419 ± 4.1	✓
	24-1	18.39	7.12	6.5	8.9	33.5	1.0	0.0098	3458 ± 7	3442 ± 12.2	✓
	25-1	18.53	7.11	6.4	2.7	10.8	-1.0	0.0035	3355 ± 34	3216 ± 6.7	✓

COUNT TURN ON BEAM OFF

7 scans

off. peak!

SHUT DOWN ETC.

Rejection over-ride	Sample/ Std ID	Time - printout	UO/U Kcps	196 Kcps	206 cps	U ppm	204Pb ppb	f <sub>206</sub> %	Age ±1σ (Ma) 206/238	207/206	Offsets OK?
	26-1	19.09	7.55	6.3	5.9	21.6	1.5	.00090	3413 ± 82	3452 ± 17.8	✓
	<del>C2-13-2</del>	<del>19.24</del>	<del>6.83</del>	<del>7.4</del>	<del>8.5</del>	<del>216.3</del>	<del>2.0</del>	<del>.00176</del>	<del>597 ± 6.9</del>	<del>479 ± 54</del>	✓
	27-1	19.39	7.28	6.9	1.4	50.5	3.3	.00173	3406 ± 73	3430 ± 9.3	✓
	28-1	19.54	6.91	6.8	8.0	29.5	0.5	.00040	3511 ± 67	3433 ± 12.7	✓
	29-1	20.09	7.29	6.7	7.2	26.6	3.2	.00326	3342 ± 69	3486 ± 16.5	✓
	30-1	20.23	7.08	6.7	1.2	50.7	1.5	.00093	3673 ± 58	2984 ± 13.7	✓
	31-1	20.39	7.09	6.7	5.5	20.5	1.8	.00237	3430 ± 81	3449 ± 18.8	✓
	C2-13-3	20.53	7.29	6.6	8.9	234.5	0.8	.00666	601 ± 7.6	533 ± 36.4	✓
	32-1	21.08	7.29	6.0	7.5	30.3	3.3	.00297	3375 ± 73	3453 ± 16.8	✓
	33-1	21.24	7.07	6.5	4.8	17.1	2.5	.00362	3587 ± 99	3421 ± 17.4	✓
	34-1	21.38	7.29	6.6	9.5	38.1	6.4	.00027	3192 ± 56	3091 ± 12.7	✓
	35-1	21.53	6.66	5.6	7.5	34.3	2.0	.00150	3553 ± 68	3398 ± 13	✓
	36-1	22.08	7.17	6.3	5.9	21.5	1.2	.00142	3622 ± 89	3423 ± 16	✓
	37-1	22.22	6.57	6.6	4.5	20.4	4.8	.00681	3186 ± 74	3011 ± 24	✓
	C2-13-4	22.32	7.02	6.9	8.6	229.4	0.3	.00024	59.2 ± 9.3	588 ± 75.4	✓
	<u>SDA2-1</u>	→	204Pb too high - aborted								✓
	38-1	22.58	6.84	6.2	6.5	27.2	2.9	.00281	3457 ± 71	3450 ± 14	✓
*	39-1	23.13	7.29	6.2	5.4	20.2	1.8	.00229	3508 ± 84	3470 ± 14.9	✓
	40-1	23.29	6.82	6.4	1.0	36.8	0.8	.00051	3764 ± 86	3438 ± 12	✓
	41-1	23.44	6.99	6.7	1.4	50.8	-0.5	-	3526	3456	✓
	42-1	23.58	6.87	6.9	9.9	40.4	-0.2	-	3204	3071	✓
	43-1	00.43	7.22	6.5	4.2	189.4	7.0	.00118	2972 ± 28	2928 ± 7.2	✓
	44-1	00.28	7.24	6.4	1.5	53	1.9	.00092	3530 ± 51	3442 ± 10.5	✓
	C2-13-5	00.42	7.22	6.4	8.4	229.8	0.8	.00664	601 ± 6.7	533 ± 55.4	✓
	45-1	00.58	7.06	6.2	1.9	7.4	1.0	.00334	3469 ± 16	3386 ± 34	✓

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?
	46-1	01.13	7.39	6.2	5.3	22.3	1.5	00491	3193±85	3108±23	✓
	47-1	1.27	7.93	5.7	5.1	29.5	4.3	00660	2414±76	3040±26	✓
	48-1	1.42	7.19	6.3	1.4	59.3	3.1	00151	3182±66	3083±12.5	✓
	49-1	1.57	7.06	6.2	7.8	30.7	1.1	00090	3502±85	3451±15.8	✓
	50-1	2.12	6.65	5.9	5.0	22.6	1.6	00179	3538±97	3449±18.1	✓
	c2.13-6	2.26	7.57	6.2	8.9	235.8	-1.1	-	602±6.2	586±54.	✓
	51-1	2.41	7.38	6.0	8.0	35.7	0.8	00067	3104±60	2939±20	✓
	52-1	2.56	7.34	6.3	7.9	28.4	2.3	00204	3543±72	3451±15	✓
	53-1	3.11	7.22	6.4	9.5	42.2	-0.5	-	3006±51	2925±73.9	✓
	54-1	3.26	7.03	6.5	3.7	13.5	1.4	00261	3570±116	3448±18	✓
	55-1	3.42	7.53	5.7	1.2	47.3	4.2	00240	3398±61	3382±18.6	✓
	56-1	3.56	6.87	6.1	2.2	10.1	2.5	00710	3217±121	3127±39	✓
	c2.13-7	4.11	6.79	6.8	7.6	225.5	-0.9	-	570±5.9	632±44	✓
	57-1	4.28	7.22 6.26	6.6 6.2	1.2	46.4	1.9	00121	3208±53	3093±11	✓
	58-1	4.43	6.84	6.6	1.4	62.7	4.7	0024	3138±52	3395±12.2	✓
	59-1	5.03	7.28	6.4	8.3	36.3	-1.1	-	3035±57	2909±17	✓
	60-1	5.18	6.82	6.9	1.1	51.2	-0.3	-	2989	2906	✓
	61-1	5.33	7.15	6.5	2.3	106.8	1.7	00051	2958±32	2923±9.3	✓
	c2.13-8	5.48	6.93	6.4	7.9	225.3	-1.1	-	609±6.2	664±43	✓
	62-1	6.03	7.07	6.4	1.7	72.4	0.9	00037	3261±43	3196±8.4	✓
	63-1	6.18	7.39	6.2	1.6	64.2	0.6	00025	3255±51	3214±17	✓
	64-1	6.33	6.90	6.8	7.5	33.4	-0.2	-	3016	2949	✓
	c2.13-9	6.49	7.28	6.1	8.1	233.9	1.3	00107	592±6	569±38	✓
	65-1	7.04	7.01	6.4	1.8	80.5	1.9	00068	3165±40	3058±10	✓
	66-1	7.18	6.98	6.5	8.1	33.8	2.0	00168	3252±60	3042±15	✓
	c2.22-1	7.34	7.37	6.1	7.7	226.3	0.6	00049	577±7	534±43	✓
*	67-1	7.49	6.87	5.6	1.8	7.6	-0.7	-	3643±182	3481±35	✓
	c2.22-2	8.03	6.98	5.9	6.9	221.9	0.2	00017	580±9.7	557±49.5	✓