

South Patch day 0 is day (01/25/02 2130hrs) 025/02 2130GMT

Contact: Craig Hunter, MLML

South patch Melville in/out

Station 4 CTD 13 029/02 2216 Day 4

IN

Depth	<i>uM C</i>	<i>uM N</i>	molar C/N
17	6.33	1.22	5.20
25	7.02	1.33	5.28
35	6.42	1.22	5.24
45	7.70	1.35	5.69
59	4.20	0.75	5.61
88	1.42	0.30	4.73

Station 4 TM 8 030/02 0129

IN

Depth	<i>uM C</i>	<i>uM N</i>	molar C/N
2	7.51	1.40	5.38
14	8.10	1.52	5.34
22	7.92	1.51	5.25
34	7.69	1.44	5.34
42	8.12	1.41	5.76
53	5.97	1.06	5.64
84	2.21	0.36	6.13
127	0.85	0.19	4.39

Station 6 TM 11 031/02 0308

OUT

Depth	<i>uM C</i>	<i>uM N</i>	molar C/N
3	5.71	1.05	5.46
17	5.97	1.07	5.56
29	5.95	1.09	5.47
42	5.32	0.97	5.48
53	6.10	1.08	5.67
69	5.27	0.93	5.68
107	3.32	0.61	5.44
160	0.66	0.14	4.57

Station 7 TM 14 (*15) 031/02 2016

IN

Depth	<i>uM C</i>	<i>uM N</i>	molar C/N
4	7.65	1.51	5.06
14	8.10	1.54	5.25
*23	8.35	1.58	5.30
34	8.45	1.59	5.31
44	7.46	1.43	5.22
55	5.75	1.02	5.62
88	1.22	0.24	5.17
132	0.67	0.18	3.81

Station 10 TM 17 032/02 2051

OUT (?)

Depth	<i>uM C</i>	<i>uM N</i>	molar C/N
4	7.42	1.34	5.55
14	7.46	1.35	5.51
21	7.70	1.39	5.53
32	7.17	1.31	5.48
42	6.90	1.27	5.45
53	6.19	1.07	5.77
82	1.82	0.34	5.33
126			

Station 11-17 Transit I Depth 20 meters 033/02 1841 - 034/02 1103

Sta	<i>uM C</i>	<i>uM N</i>	molar C/N	SF 6
S11 Out	7.30	1.36	5.38	<
S12 Out	6.41	1.15	5.57	<
S13 ?	6.53	1.16	5.63	5 fM
S14 In	8.87	1.63	5.46	24 fM
S15 In	7.43	1.35	5.51	17 fM
S16 In	7.24	1.34	5.42	16 fM
S17 In	10.25	1.89	5.42	40 fM

Station 18 TM 28 035/02 0137

IN

Depth	<i>uM C</i>	<i>uM N</i>	molar C/N
5	8.76	1.61	5.45
11	9.33	1.74	5.38
18	9.17	1.71	5.35
27	9.63	1.77	5.44
34	9.43	1.73	5.44
45	9.28	1.75	5.29
65	3.62	0.66	5.45

Station 19 TM 30 035/02 2335

IN

Depth	<i>uM C</i>	<i>uM N</i>	molar C/N
8	10.71	2.00	5.34

Station 20 TM 33 036/02 2225 66° 18.72' S x 171° 22.39' W

OUT

Depth	<i>uM C</i>	<i>uM N</i>	molar C/N
5	5.88	1.06	5.57
13	6.25	1.12	5.58
22	6.30	1.15	5.48
34	6.02	1.07	5.63
43	5.80	1.09	5.31
55	6.13	1.07	5.75
85	2.21	0.40	5.54
129	0.88	0.18	5.00

Station 22 TM 35 039/02 0705

IN	Depth	<i>uM C</i>	<i>uM N</i>	molar	
				C/N	
	5	9.73	1.80	5.41	
	11	9.68	1.76	5.50	
	18	10.99	2.00	5.49	
	27	10.43	1.91	5.46	
	34	10.17	1.92	5.28	
	44	6.07	1.14	5.31	
	68	3.30	0.63	5.23	
	102	1.14	0.25	4.61	

Station 23 TM 37 039/02 2105

IN	Depth	<i>uM C</i>	<i>uM N</i>	molar	
				C/N	
	5	10.71	2.04	5.25	
	11	8.82	1.66	5.32	
	17	10.65	2.07	5.15	
	26	11.15	2.11	5.27	
	33	11.33	2.15	5.27	
	43	8.94	1.74	5.14	
	67	3.69	0.68	5.41	
	100	1.40	0.27	5.25	

Station 24 - 33 Transit II Depth 20 meters 040/02 1957 - 042/02 0206

Sta	<i>uM C</i>	<i>uM N</i>	molar		SF 6
			C/N		
S24 In	13.08	2.47	5.30		17 fM
S25 In	9.38	1.82	5.15		13 fM
S26 In	11.59	2.15	5.39		10.6 fM
S27 In	11.78	2.15	5.48		10 fM
S28 Edge	8.18	1.53	5.35		2.8 fM
S29 Edge	8.17	1.55	5.28		2.2 fM
S30 Out	8.41	1.53	5.48		<
S31	1.11	0.27	4.07 ?		
S31-2	11.35	2.13	5.34		?
S32	11.66	2.14	5.44		?
S33	6.25	1.15	5.42		out

Station 34 TM 43 041/02 2040

IN	Depth	<i>uM C</i>	<i>uM N</i>	molar	
				C/N	
	4	13.71	2.50	5.48	
	8	12.82	2.43	5.27	
	14	11.33	2.14	5.29	
	20	12.60	2.37	5.31	
	26	11.98	2.24	5.35	
	34	11.57	2.19	5.28	
	52	5.23	0.96	5.47	
	78	1.59	0.31	5.06	

Station 36 TM 46 043/02 2035

OUT

Depth	<i>uM C</i>	<i>uM N</i>	molar C/N
2	5.65	1.01	5.61
14	6.01	1.07	5.60
22	5.85	1.07	5.46
33	6.15	1.11	5.55
41	6.02	1.11	5.42
54	5.37	0.96	5.62
83	1.89	0.32	5.86
124	1.06	0.19	5.56

Station 37 - 42 Transit III Depth ~23 meters 044/02 1826 - 045/02 0747

Sta	<i>uM C</i>	<i>uM N</i>	molar C/N	SF 6
S37 Edge	7.47	1.35	5.54	2.9 fM
S38 Edge	10.69	1.94	5.52	4.5 fM
S39 In	15.56	2.85	5.46	15 fM
S40 Edge	8.83	1.61	5.49	2.5 fM
S41 In	12.95	2.35	5.51	>?
S42 In	15.50	2.78	5.58	>?

Station 43 TM 52 045/02 2224 (DAY 0 = 025/02 2130)

IN

Depth	<i>uM C</i>	<i>uM N</i>	molar C/N
2	13.20	2.55	5.17
8	14.29	2.63	5.43
13	12.86	2.49	5.16
20	13.90	2.68	5.19
25	13.50	2.60	5.18
32	14.07	2.66	5.28
52	7.47	1.39	5.37
76	3.04	0.55	5.48

**PATCH STILL GROWING
20 DAYS**

North Patch day 0 is day (01/13/02 1400hrs) 013/02 1400GMT

North Patch, Melville in/out

Station 1 2002 024 0153 55° 19.74' S X 171° 29.40'W

IN

Depth	<i>uM C</i>	<i>uM N</i>	molar C/N	Day 11
5	6.06	0.95	6.41	
16	6.21	1.01	6.13	
40	5.26	0.72	7.30	
50	4.91	0.86	5.73	
65	3.27	0.64	5.08	
100	2.76	0.42	6.51	

150 1.33 0.22 5.98

Station 2 025/02 0121 55° 15.96'S x 171°45.6' W

OUT molar Day 12

Depth	$\mu\text{M C}$	$\mu\text{M N}$	C/N
5	2.75	0.39	7.05
18	2.76	0.45	6.10
44	2.19	0.39	5.59
72	3.30	0.55	5.99
101	3.49	0.61	5.73
112	2.09	0.33	6.36
160	1.17	0.21	5.68

Station 44 TM 54 050/02 2258

OUT molar Day 37

Depth	$\mu\text{M C}$	$\mu\text{M N}$	C/N
3	3.81	0.62	6.18
17	3.84	0.63	6.12
28	3.88	0.62	6.29
42	3.90	0.62	6.27
53	3.73	0.62	5.98
69	3.03	0.53	5.76
106	2.55	0.44	5.82
158	1.12	0.21	5.31

Station 45 TM 57 051/02 2049

IN molar Day 38

Depth	$\mu\text{M C}$	$\mu\text{M N}$	C/N
2	9.67	1.59	6.07
11	8.56	1.44	5.95
17	4.19	0.71	5.87
26	4.37	0.73	5.98
32	3.86	0.66	5.86
42	4.90	0.85	5.77
64	2.57	0.45	5.75
96	2.60	0.46	5.69

Station 46 CTD 77 052/02 1134 E of patch

Depth	$\mu\text{M C}$	$\mu\text{M N}$	C/N
21	4.71	0.78	6.08
50	3.69	0.60	6.20

Station 47 CTD 78 052/02 1134 W of patch

Depth	$\mu\text{M C}$	$\mu\text{M N}$	C/N
24	5.00	0.85	5.90
61	6.57	1.12	5.87