CTD and XBT Log CBL2002

XBT - time fired
CTD - bottom time
Mooring - release time

Date	Time (GMT)	Instrument	Cast	Latitude	Longitude	Sounding (m)	Depth (corr m.)
8/22	22:23	CTD	001 01	75 35.72' N	167 45.80 W'	188	190
8/23	4:43	XBT	1 (N89)	75 51.8 N	168 24.9' W	290	289
	6:53	CTD	002 01	75 56.87 'N	168 31.70' W	395	391
	8:56	XBT	2 (N90)	75 58.9' N	168 39.4' W	496	489
	9:52	CTD	003 01	76 00.81' N	168 40.12' W	656	644
	10:54	XBT	3 (N91)	76 02.00' N	168 39.7' W	818	803
	12:29	CTD	004 01	76 02.25' N	168 48.66' W	967	948
	21:49	Mooring	CBL-A	76 01.51' N	168 31.75' W		626
8/24	5:10	Mooring	CBL-B	76 03.08' N	168 50.98' W		1090
	5:57	XBT	4 (N92)	76 03.75' N	168 56.33' W	1254	1228
	7:52	CTD	005 01	76 05.12' N	168 57.58' W	1370	1342
	9:59	XBT	5 (N93)	76 06.82' N	168 59.84' W	1567	1535
	11:41	CTD	006 01	76 08.14' N	169 09.75' W	1750	1715
	21:02	Mooring	CBL-C	76 07.85' N	169 59.16' W		1617
	22:02	XBT	6 (N94)	76 10.20' N	169 10.40' W	1888	1851
	23:57	CTD	007 01	76 13.59' N	169 16.71' W	2040	2001
8/25	2:29	XBT	7 (N95)	76 18.93' N	169 32.72' W	2172	2131
	6:42	CTD	008 01	76 30.84' N	170 05.79' W	2268	2226
	21:36	CTD	009 01	76 28.80' N	175 13.34' W	2040	2001
8/26	2:35	CTD	010 01	76 28.44' N	176 21.13' W	1750	1715
	7:40	CTD	011 01	76 25.99' N	177 05.74' W	1386	1358
	10:54	CTD	012 01	76 25.91' N	177 24.41' W	1067	1045
8/27	7:58	CTD	013 01	76 15.71' N	175 36.28' E	419	414
	10:31	XBT	8 (N97)	76 24.4' N	175 39.7' E	540	532
	12:38	CTD	014 01	76 31.44' N	175 51.82' E	770	756

	13:59	XBT	9 (N98)	76 31.79' N	176 06.31' E	846	830
	15:59	CTD	015 01	76 39.11' N	176 14.54' E	1027	1006
	17:36	XBT	10 (N99)	76 42.1' N	176 26.0' E	1107	1085
	21:46	CTD	016 01	76 56.85' N	176 19.54' E	1227	1202
8/28	01:29	XBT	11 (N100)	77 10.9' N	177 03.00' E	1231	1207
	3:45	XBT	12 (N101)	77 24.43' N	177 40.56' E	1015	995
	7:21	CTD	017 01	77 34.92' N	177 55.05' E	1240	1214
	10:07	XBT	13 (N102)	77 45.16' N	177 56.87' E	1253	1227
	14:28	CTD	018 01	77 59.08' N	177 22.46' E	1719	1685
	19:33	XBT	14 (N103)	78 16.03' N	176 47.74' E	1874	1838
	19:40	XBT	15 (N104)	78 16.41' N	176 47.04' E	1871	1835
8/29	2:43	CTD	019 01	78 41.45' N	176 13.43' E	2030	1991
	7:42	XBT	16 (N105)	78 50.90' N	175 31.54' E	2195	2154
	8:08	XBT	17 (N106)	79 06.21' N	174 39.92' E	2440	2396
	10:12	CTD	020 01	78 57.35' N	174 59.69' E	2332	2289
	17:13	CTD	021 01	79 11.77' N	174 15.53' E	2549	2504
8/30	5:07	CTD	022 01	79 50.85' N	175 06.45' E	2551	2506
	8:45	CTD	023 01	79 47.72' N	175 47.77' E	2338	2295
	12:53	CTD	024 01	79 46.96' N	177 08.96' E	1972	1934
	15:30	CTD	025 01	79 45.00' N	177 42.46' E	1674	1641
	18:45	CTD	026 01	79 53.58'N	178 43.00' E	1819	1783
	00:21	CTD	027 01	79 57.71'N	179 53.38'w	1631	1599
8/31	3:40	CTD	028 01	79 59.78'N	179 00.25'W	1560	1528
	6:55	CTD	029 01	80 00.47'N	178 39.40'W	1758	1723
	12:30	CTD	030 01	80 00.96'N	176 56.26'W	2048	2009
	19:09	CTD	031 01	80 03.61'N	175 07.74'W	2334	2291
9/01	01:59	CTD	032 01	80 06.59'N	173 20.68' W	2580	2534
	6:03	CTD	03301	80 13.66'N	172 50.08'W	3066	3015
	13:10	CTD	03401	80 11.87'N	170 06.26'W	3364	3310
	18:55	CTD	03501	79.53.42'N	169 34.79'W	3346	3292

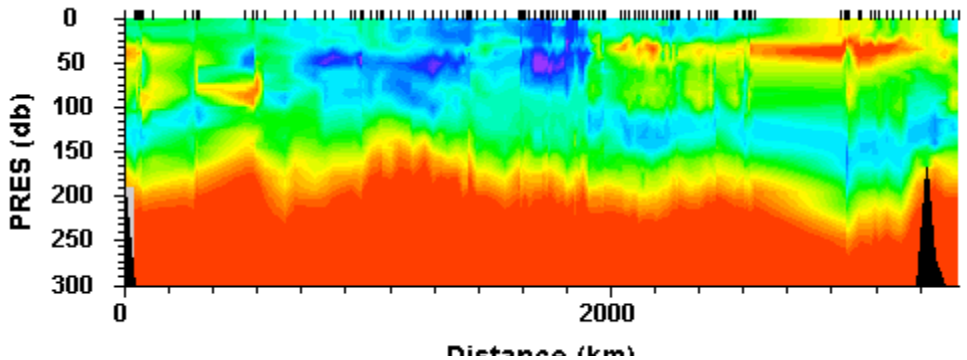
9/02	2:29	CTD	03601	79 39.35'N	168 54.23'W	3250	3197
	9:15	CTD	03701	79 24.91'N	168 48.10'W	3180	3128
	15:51	CTD	03801	79 6.06'N	167 55.20'W	3033	2983
	20:53	CTD	03901	78 54.86'N	167 30.39'W	2542	2497
9/03	4:28	CTD	04001	78 43.85'N	167 14.24'W	1721	1687
	8:23	CTD	04101	78 41.84'N	167 14.54'W	1430	1401
	10:25	CTD	04201	78 39.26'N	167 08.79'W	1005	985
	13:38	CTD	04301	78 38.25'N	166 58.52'W	799	784
	15:54	CTD	04401	78 37.07'N	166 50.64'W	638	627
	20:55	CTD	04501	78 22.91'N	166 54.73'W	477	471
9/04	1:56	CTD	04601	78 06.87'N	166 27.33'W	328	326
	6:54	CTD	04701	78 22.86'N	165 06.81'W	617	607
BAD	9:07	XBT	18 (N107)	78 30.5'N	164 40.3'W	695	683
BAD	9:11	XBT	19 (N108)	78 31.20'N	164 38.88'W	695	683
	9:14	XBT	20 (N109)	78 31.49'N	164 38.03'W	695	683
	11:03	CTD	04801	78 39.75'N	164 15.95'W	798	783
	12:24	XBT	21 (N110)	78 46.32'N	164 0.23'W	952	932
	12:49	XBT	22 (N111)	78 46.70'N	163 59.86'W	964	944
	17:19	CTD	04901	78 56.60'N	162 01.61'W	1056	1035
	21:10	CTD	05001	79 01.39'N	162 00.72'W		1500
9/05	0:07	CTD	05101	79 03.41'N	161 53.67'W	2096	2056
	3:59	CTD	05201	79 06.29'N	161 38.19'W	2636	2590
	8:10	CTD	05301	79 08.32'N	161 23.57'W	2999	2949
	13:39	CTD	05401	79 16.32'N	160 51.51'W	3248	3196
	18:33	CTD	05501	79 22.40'N	160 05.23'W	3444	3389
9/06	0:33	CTD	05601	79 31.66'N	159 10.69'W	3563	3507
	5:40	CTD	05701	79 26.97'N	158 54.91'W	3442	3387
	10:46	CTD	05801	79 19.39'N	158 42.20'W	3223	3171
	14:59	CTD	05901	79 15.09'N	158 14.11'W	3068	3017
	18:59	CTD	06001	79 12.27'N	157 51.49'W	3059	3008

9/07	0:44	CTD	06101	79 08.63'N	157 51.45'W	3274	3221
bad	3:34	XBT	23 (N112)	79 05.03'N	157 35.83'W	3407	3353
	3:44	XBT	24 (N113)	79 04.95'N	157 34.89'W	3467	3413
	5:25	CTD	06201	79 03.14'N	157 35.84'W	3482	3427
	8:11	XBT	25 (N114)	78 59.51'N	157 24.44'W	3265	3212
	11:21	CTD	06301	78 52.90'N	157 02.08'W	3735	3677
	14:32	XBT	26 (N115)	78 48.10'N	156 51.22'W	3863	3804
	17:23	CTD	06401	78 44.37'N	156 33.23'W	3864	3805
	20:24	XBT	27 (N116)	78 40.23'N	156 22.67'W	3865	3806
9/08	0:36	CTD	06501	78 34.15'N	155 59.72'W	3858	3800
	9:19	CTD	06602	78 29.87'N	155 48.75'W	3203	3151
	13:38	CTD	06701	78 27.45'N	155 42.41'W	2580	2534
	17:19	CTD	06801	78 25.03'N	155 37.74'W	1863	1827
	22:13	CTD	06901	78 20.19'N	155 12.65'W	1713	1679
9/09	2:03	CTD	07001	78 19.66'N	154 46.72'W	1099	1077
	5:33	CTD	07101	78 09.63'N	154 07.85'W	1099	1077
	9:25	CTD	07201	78 07.66'N	154 02.37'W	1340	1312
	12:53	CTD	07301	78 03.32'N	153 36.94'W	1745	1710
	19:00	CTD	07401	77 47.75'N	153 00.62'W	2232	2190
	22:55	CTD	07501	77 42.59'N	152 37.71'W	3069	3018
9/10	3:56	CTD	07601	77 40.52'N	152 21.09'W	3879	3819
	23:23	CTD	07701	77 23.55'N	154 36.35'W	1069	1048
9/11	3:51	CTD	07801	77 17.02'N	155 11.38'W	1509	1479
	7:36	CTD	07901	77 15.24'N	155 56.75'W	1986	1948
	11:11	CTD	08001	77 11.24'N	156 43.14'W	745	731
	14:37	CTD	08101	77 05.77'N	157 24.11'W	1552	1520
	17:59	CTD	08201	77 01.76'N	158 04.09'W	964	945
	21:09	CTD	08301	76 57.25'N	158 36.57'W	2105	2065
9/12	2:13	CTD	08401	76 52.58'N	159 16.24'W	2151	2110
	6:26	CTD	08501	76 58.39'N	160 03.97'W	2064	2024

	11:08	CTD	08601	77 04.81'N	160 36.77'W	1835	1799
	15:20	CTD	08701	77 08.72'N	161 17.49'W	872	855
	18:18	CTD	08801	77 13.62'N	161 50.36'W	1463	1433
	22:39	CTD	08901	77 13.93'N	162 09.70'W	2640	2594
9/13	2:47	CTD	09001	77 16.88'N	162 47.00'W	2406	2362
	5:36	CTD	09101	77 16.96'N	163 03.54'W	1016	996
	9:06	CTD	09201	77 19.68'N	163 11.48'W	527	520
	10:52	XBT	28 (N117)	77 19.5'N	163 47.5'W	352	348
	13:50	CTD	09301	77 17.81'N	164 37.81'W	335	333
	18:53	XBT	29 (N118)	77 16.9'N	165 38.5'W	928	908
	21:16	CTD	09401	77 15.80'N	166 20.30'W	822	806
9/14	1:02	XBT	30 (N119)	77 7.95'N	167 7.47'W	585	577
	3:43	CTD	09501	77 12.53'N	167 54.14'W	541	533
	7:05	CTD	09601	77 10.45'N	168 23.29'W	962	943
	11:00	CTD	09701	77 08.55'N	168 55.96'W	1700	1666
	14:30	CTD	09801	77 08.18'N	169 20.33'W	1987	1949
9/15	3:00	CTD	09901	76 30.12'N	170 02.84'W	2266	2224
	6:49	CTD	10001	76 23.50'N	169 46.87'W	2243	2201
	11:05	CTD	10101	76 14.77'N	169 12.91'W	2058	2018
9/16	6:09	CTD	10201	76 09.19'N	169 12.54'W	1844	1808
	9:31	CTD	10301	76 05.61'N	168 55.19'W	1396	1368
	11:48	CTD	10401	76 03.46'N	168 51.88'W	1185	1161
	21:11	CTD	10501	76 01.68'N	168 30.01'W	634	623
	23:39	CTD	10601	75 56.54'N	168 29.83'W	377	375
9/18	10:45	CTD	10701	74 30.23'N	157 07.13'W	3899	3840
	15:55	CTD	10801	74 34.12'N	157 28.80'W	3290	3237
	21:09	CTD	10901	74 37.45'N	157 39.38'W	1963	1925
9/19	1:36	CTD	11001	74 38.18'N	157 50.33'W	1400	1371
	4:13	CTD	11101	74 39.94'N	157 58.87'W	989	969
	8:11	CTD	11201	74 53.51'N	158 58.70'W	1100	1078

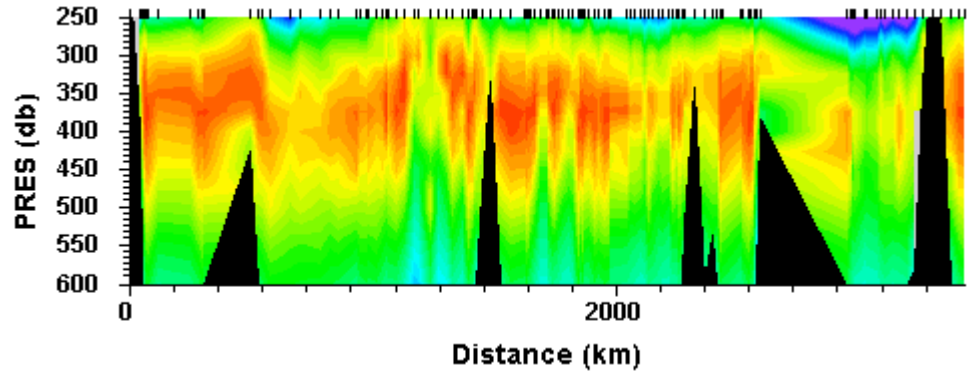
	10:35	CTD	11301	74 55.81'N	159 04.24'W	1721	1687
	13:52	CTD	11401	75 09.37'N	160 10.61'W	2017	1978
	16:38	CTD	11501	75 14.71'N	160 42.93'W	2134	2094
	19:27	CTD	11601	75 19.78'N	161 15.03'W	2135	2095
	22:42	CTD	11701	75 25.18'N	162 17.56'W	1955	1917
9/20	2:21	CTD	11801	75 23.48'N	163 21.30'W	1468	1438
	4:02	XBT	31 (N120)	75 21.99'N	163 48.6'W	1823	1787
	5:35	CTD	11901	75 19.99'N	164 15.63'W	768	754
	7:11	XBT	32 (N121)	75 18.1'N	164 44.4'W	628	617
	8:35	CTD	12001	75 16.61'N	165 24.46'W	575	566
	10:00	XBT	33 (T122)	75 14.8'N	166 2.08'W	507	500
	11:04	CTD	12101	75 13.27'N	166 41.96'W	337	335
	12:13	XBT	34 (T124)	75 11.7'N	167 19.8'W	193	195
	13:19	CTD	12201	75 10.02'N	168 00.15'W	168	170
	14:18	XBT	35 (T125)	75 12.5'N	168 37.7'W	198	200
	15:31	CTD	12301	75 20.34'N	169 07.28'W	256	256
	17:22	XBT	36 (T126)	75 25.5'N	169 41.4'W	431	427
	19:06	CTD	12401	75 30.81'N	170 16.11'W	900	882
	20:42	XBT	37 (T127)	75 34.33'N	170 38.07'W	1398	1369
	22:10	XBT	38 (T129)	75 38.57'N	171 10.56'W	1580	1548
9/21	00:09	CTD	12501	75 41.85'N	171 17.72'W	1660	1627
	03:46	CTD	12601	75 52.81'N	171 09.65'W	1786	1751
	14:48	XBT	39 (T130)	74 54.4'N	168 08.0'W	162	164
	16:08	XBT	40 (T131)	74 46.20N	167 35.98'W	303	301
9/22	01:20	XBT	41 (T133)	74 35.56'N	167 04.23'W	365	361
	02:39	XBT	42 (T134)	74 26.13'N	166 34.56'W	313	311
	05:36	XBT	43 (N122)	74 03.72'N	165 28.00'W	193	195
	06:41	XBT	44 (N123)	73 55.86'N	165 03.67'W	173	175
	08:04	XBT	45 (N124)	73 45.9'N	164 33.6'W	170	172
	09:26	XBT	46 (N125)	73 36.3'N	164 04.3'W	147	149

PRELIMINARY TEMPERATURE SECTIONS CBL2002



0-300db

blue=<-1.6 °C
green=-1.4 °C
to -1.0 °C
red=>-0.2 °C



250-600db

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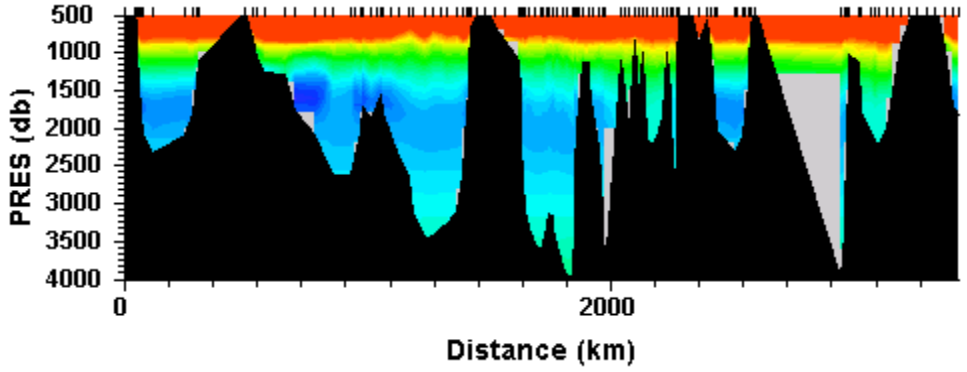
green=+0.5 °C
to +0.8 °C
red=>+1.0 °C



500-4000db

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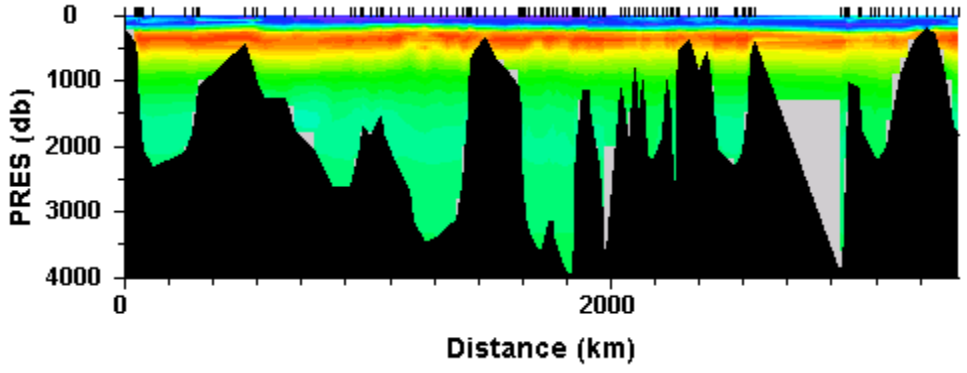
green=-0.25°C
to -0.05 °C
red=>+0.1 °C

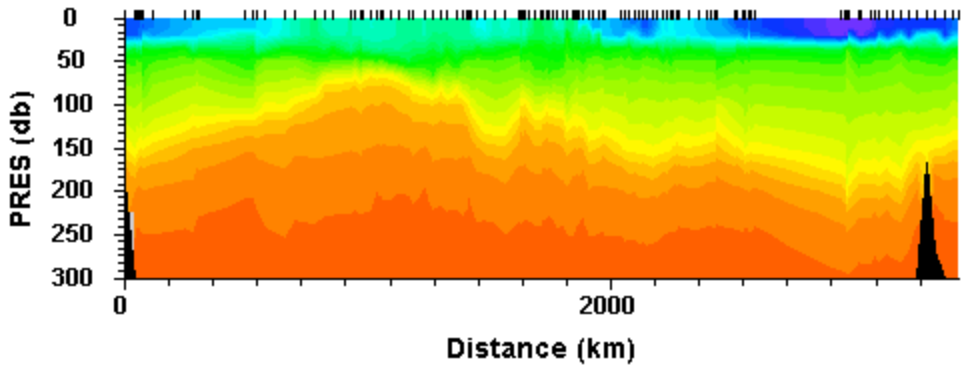


0-4000db

blue=<-1.0 °C
green=-0.4°C
to +0.2 °C
red=>+0.9 °C

CS CS MR CC NW CC CS NW CS

PRELIMINARY CTD SALINITY SECTIONS CBL2002



0-300db

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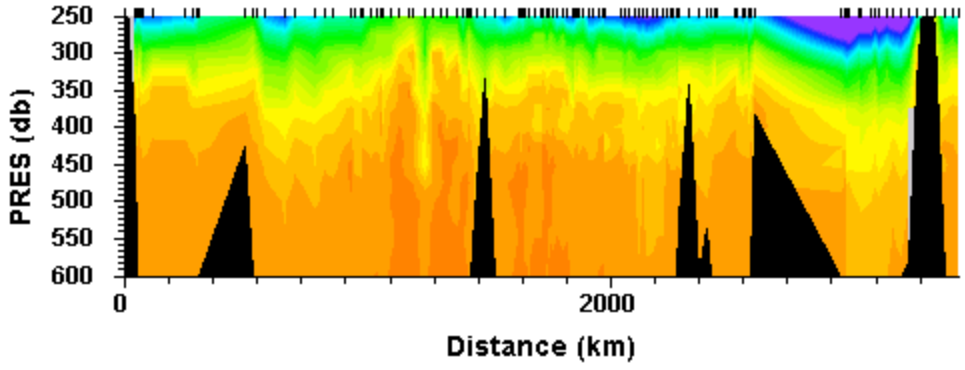
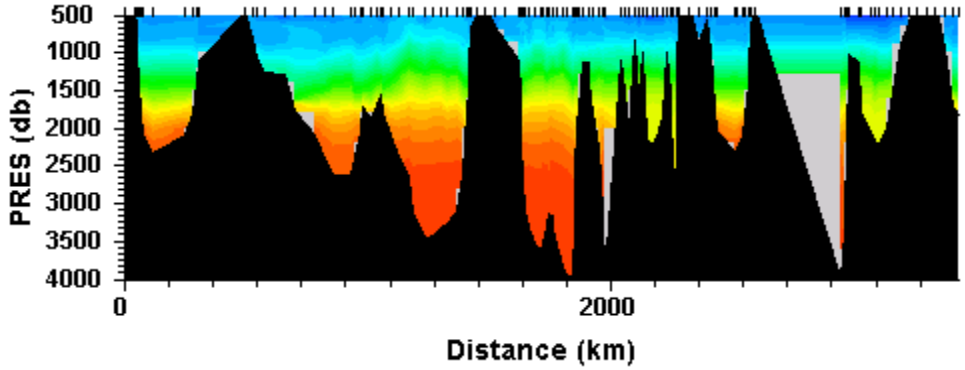
green=30.5 psu
to 32.5 psu
red=>34.4 psu



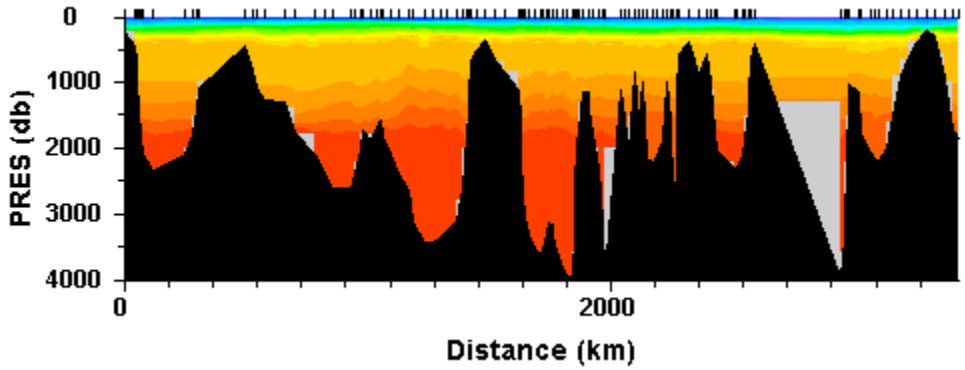
250-600db

blue=<34.66psu
green=34.72psu
to 34.79psu
red=>34.87psu



500-4000db

blue=<34.86psu
green=34.89psu
to 34.92psu
red=>34.95psu

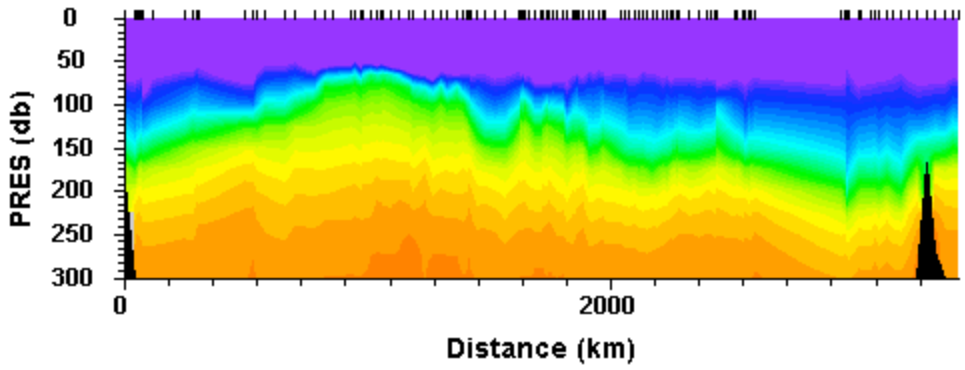


0-4000db

blue=<31.5psu
green=33.9 psu
to 34.6 psu
red=>34.9 psu

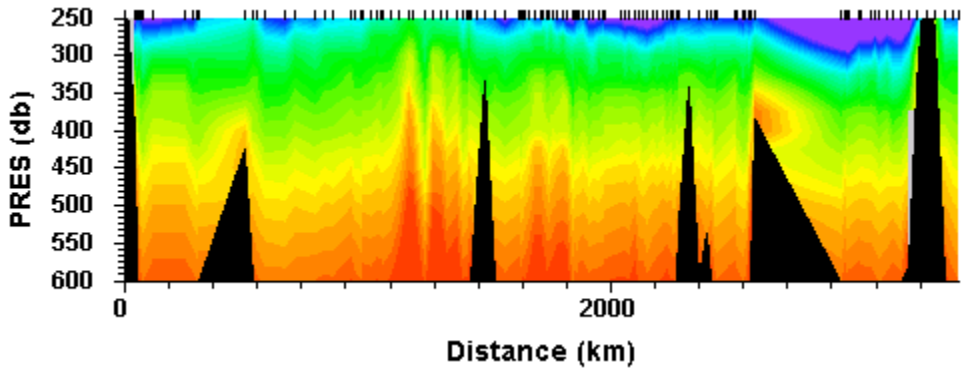
CS CS MR CC NW CC CS NW CS

PRELIMINARY SIGMA-0 SECTIONS CBL2002



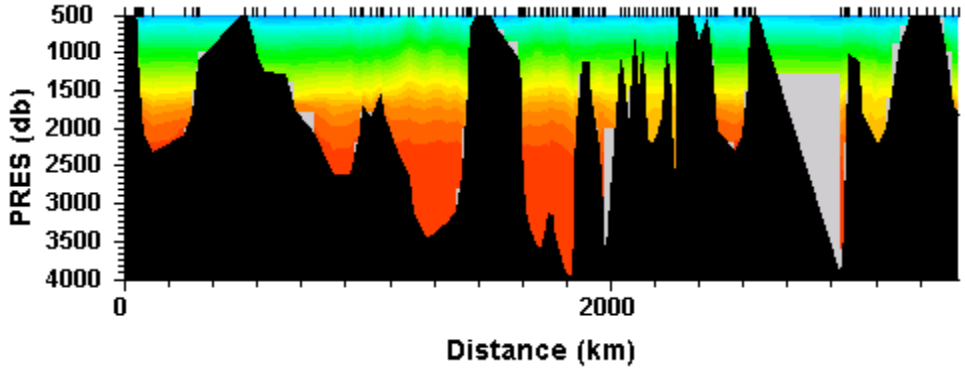
0-300db

blue=<26.4 kg/m^3
green=26.9 kg/m^3
to 27.4 kg/m^3
red=>28.0 kg/m^3



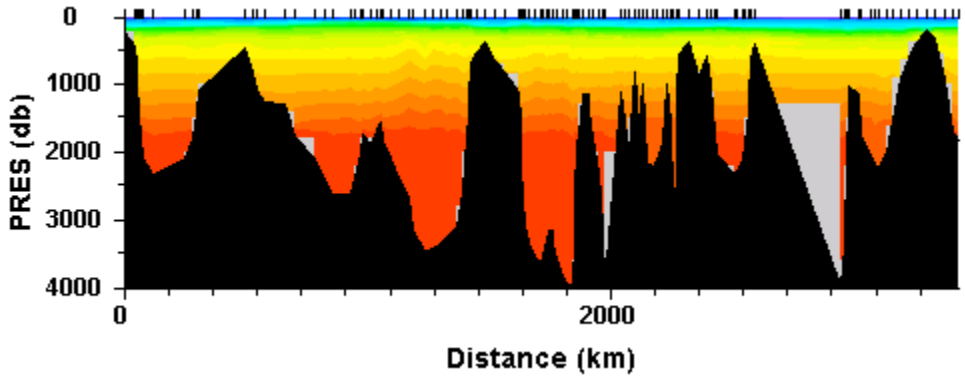
250-600db

blue=<27.83kg/m^3
green=27.87kg/m^3
to 27.92kg/m^3
red=>27.96 kg/m^3



500-4000db

blue=<27.94kg/m^3
green=27.99kg/m^3
to 28.03kg/m^3
red=>28.08kg/m^3

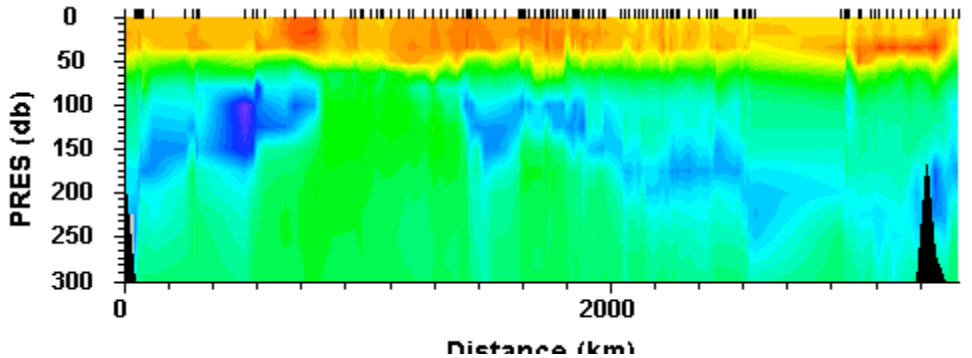


0-4000db

blue=<25.0 kg/m^3
green=27.0 kg/m^3
to 27.8 kg/m^3
red=>28.0 kg/m^3

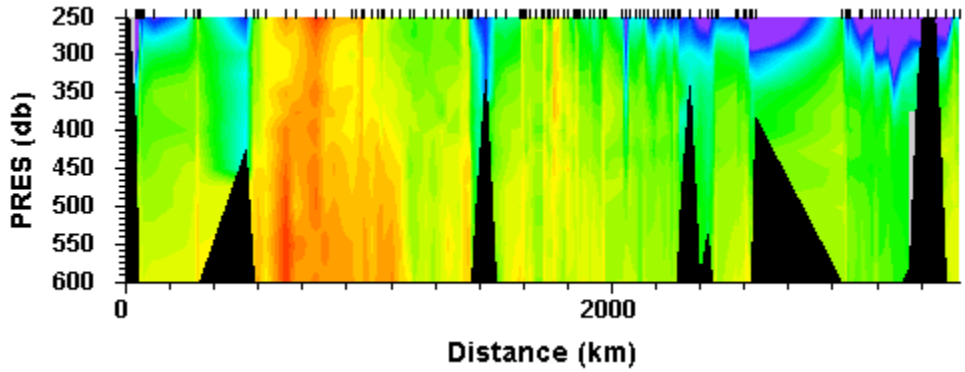
CS CS MR CC NW CC CS NW CS

PRELIMINARY CTD OXYGEN SECTIONS CBL2002



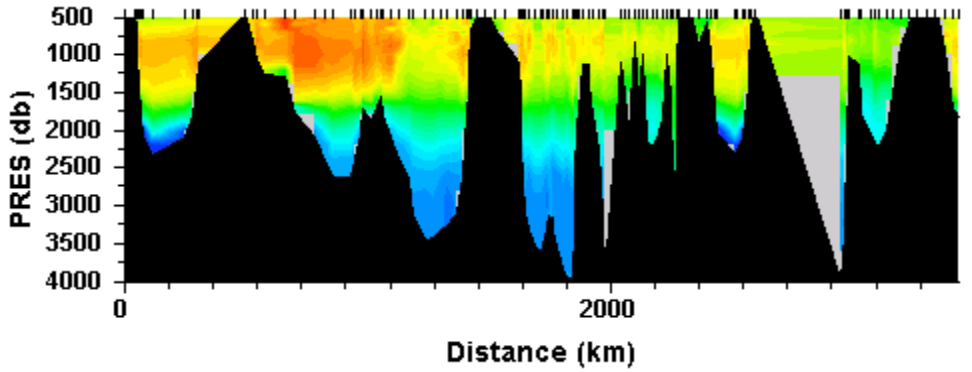
0-300db

blue=<5.5 ml/l
green=6.5ml/l
to 7.8 ml/l
red=>8.7 ml/l



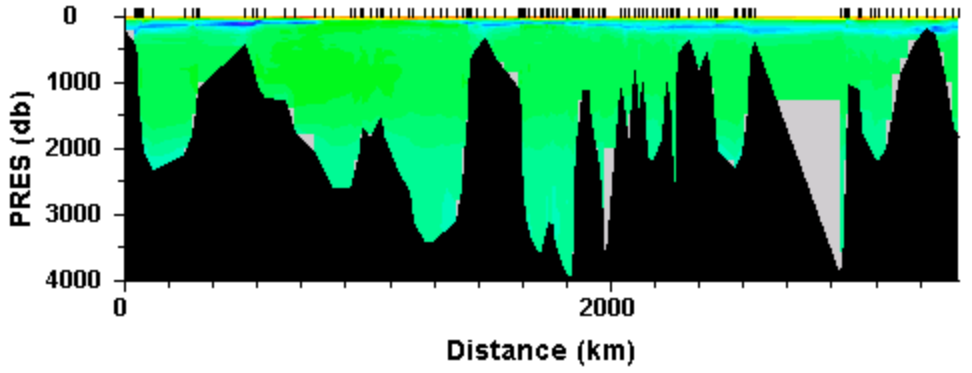
250-600db

blue=<6.5 ml/l
green=6.70ml/l
to 6.85 ml/l
red=>7.0 ml/l



500-4000db

blue=<6.5 ml/l
green=6.70ml/l
to 6.85 ml/l
red=>7.0 ml/l

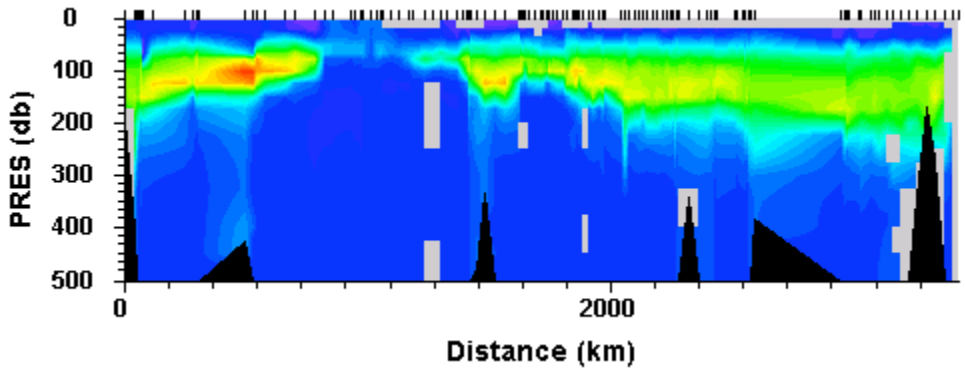


0-4000db

blue=<5.5 ml/l
green=6.5ml/l
to 7.8 ml/l
red=>8.7 ml/l

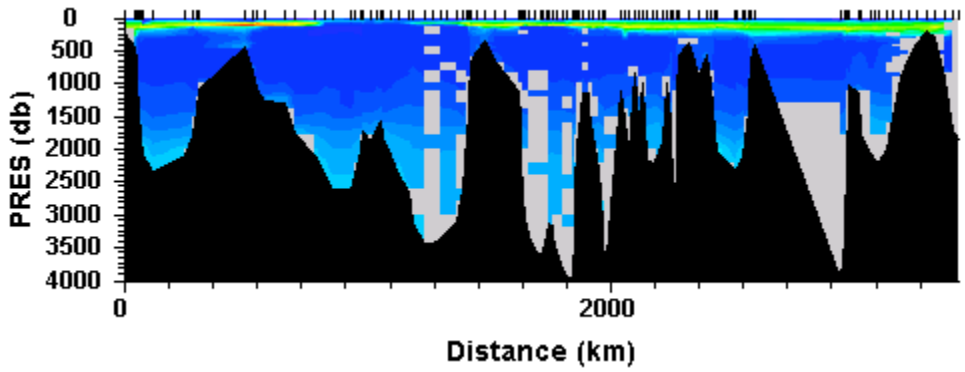
CS CS MR CC NW CC CS NW CS

PRELIMINARY SILICATE AND PHOSPHATE SECTIONS CBL2002



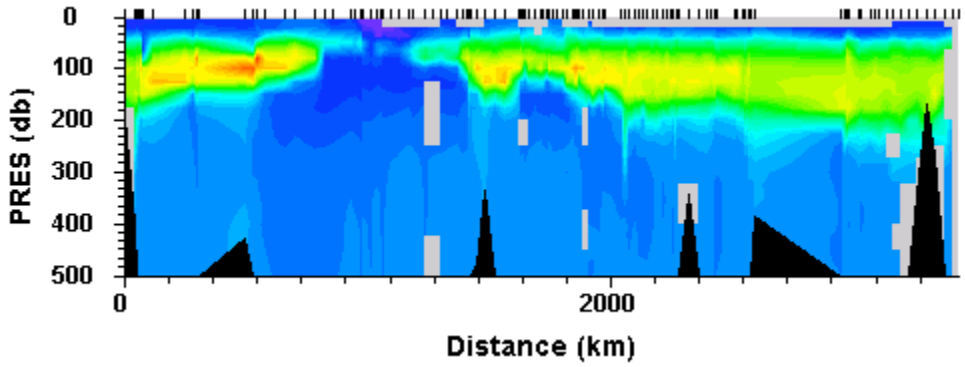
SiO3 0-500db

blue=<10 umol/l
green=24 umol/l
to 35 umol/l
red=>47 umol/l



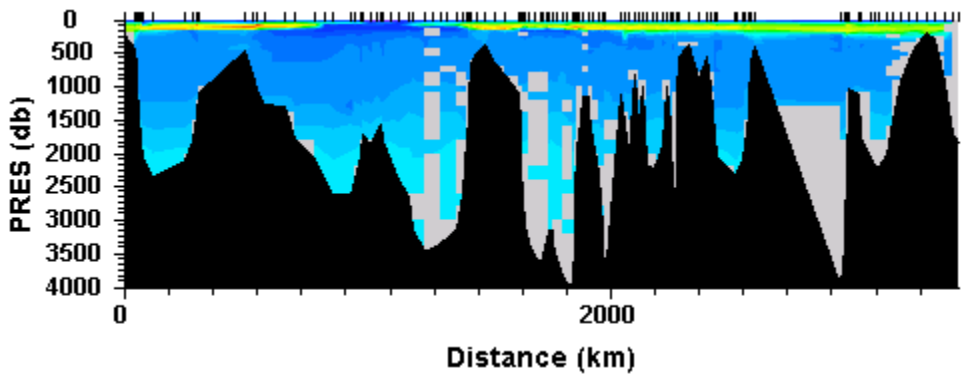
SiO3 0-4000db

blue=<10 umol/l
green=24 umol/l
to 35 umol/l
red=>47 umol/l



PO4 0-500db

blue=<0.9 umol/l
green=1.3 umol/l
to 1.8 umol/l
red=>2.2 umol/l

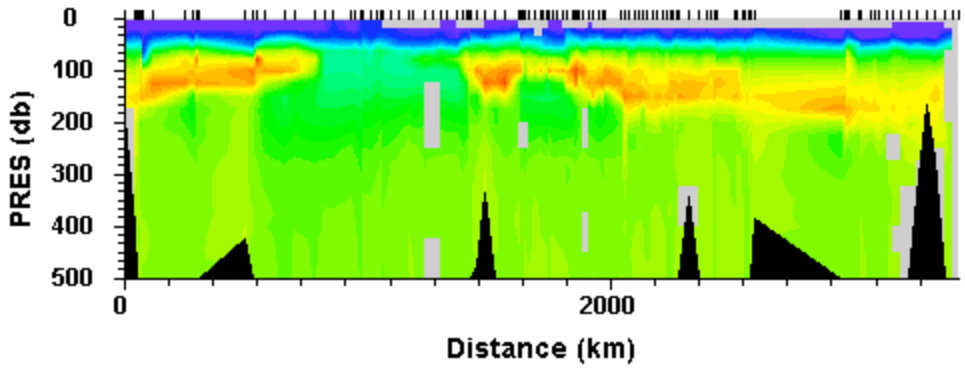


PO4 0-4000db

blue=<0.9 umol/l
green=1.3 umol/l
to 1.8 umol/l
red=>2.2 umol/l

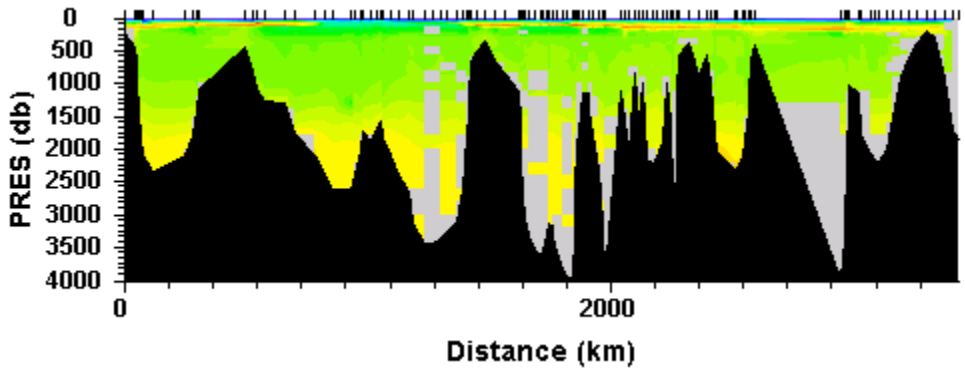
CS CS MR CC NW CC CS NW CS

PRELIMINARY NITRATE AND NITRITE SECTIONS CBL2002



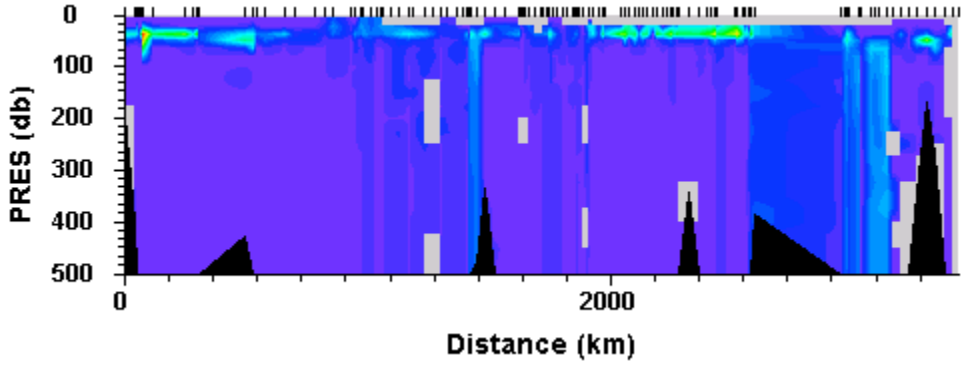
NO3 0-500db

blue=<4 umol/l
green=8 umol/l
to 13 umol/l
red=>17 umol/l



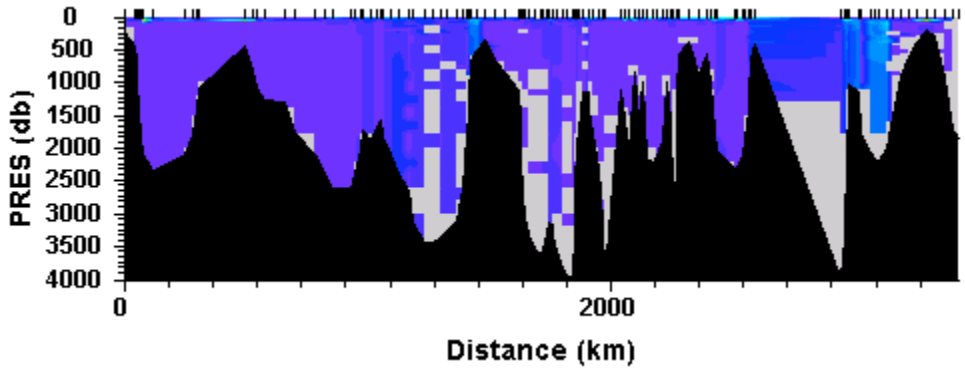
NO3 0-4000db

blue=<4 umol/l
green=8 umol/l
to 13 umol/l
red=>17 umol/l



NO2 0-500db

blue=<0.06 umol/l
green=0.15 umol/l
to 0.22 umol/l
red=>0.3 umol/l

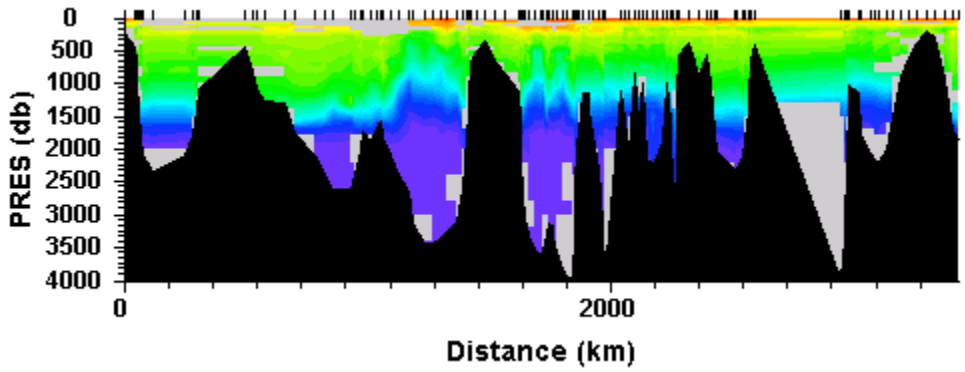


NO2 0-4000db

blue=<0.06 umol/l
green=0.15 umol/l
to 0.22 umol/l
red=>0.3 umol/l

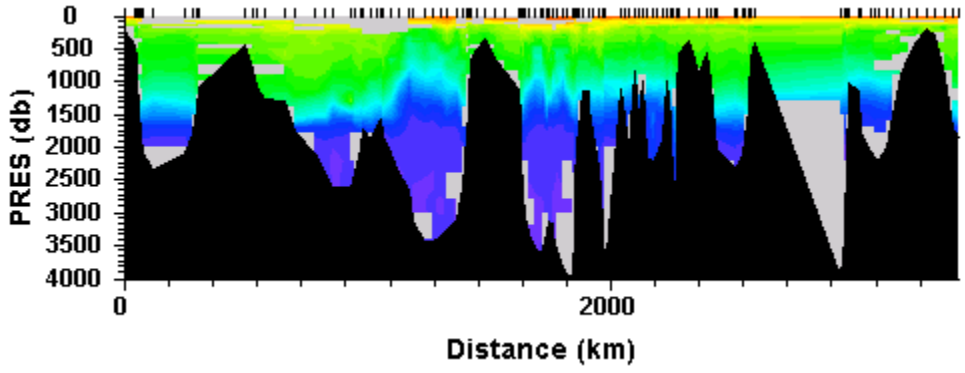
CS CS MR CC NW CC CS NW CS

PRELIMINARY CFC SECTIONS CBL2002



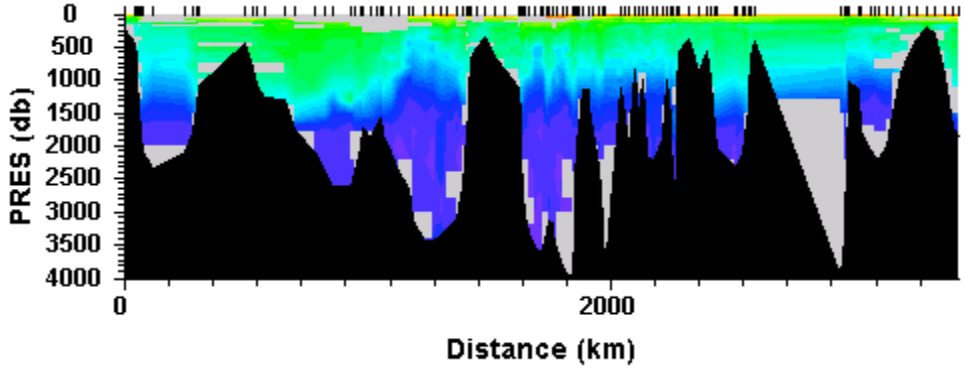
F11 0-4000db

blue=<1.4pmol/kg
green=3.3pmol/kg
to 4.9pmol/kg
red=>7.0pmol/kg



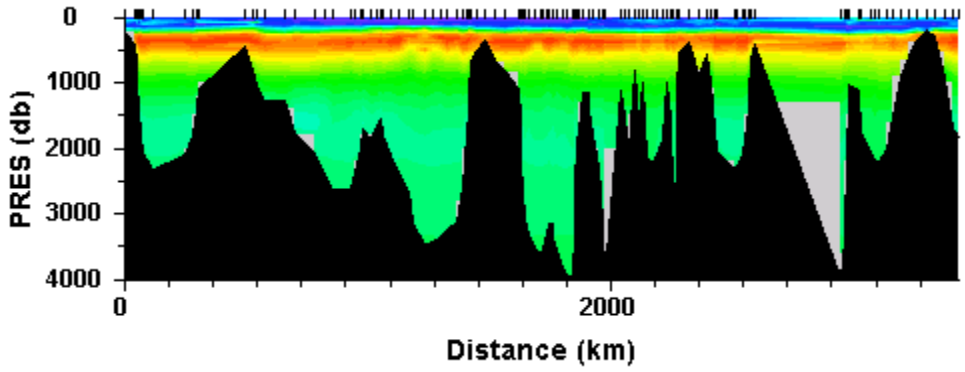
F12 0-4000db

blue=<0.6pmol/kg
green=1.8pmol/kg
to 2.6pmol/kg
red=>3.7pmol/kg



F113 0-4000db

blue=<0.1pmol/kg
green=0.3pmol/kg
to 0.5pmol/kg
red=>0.7pmol/kg

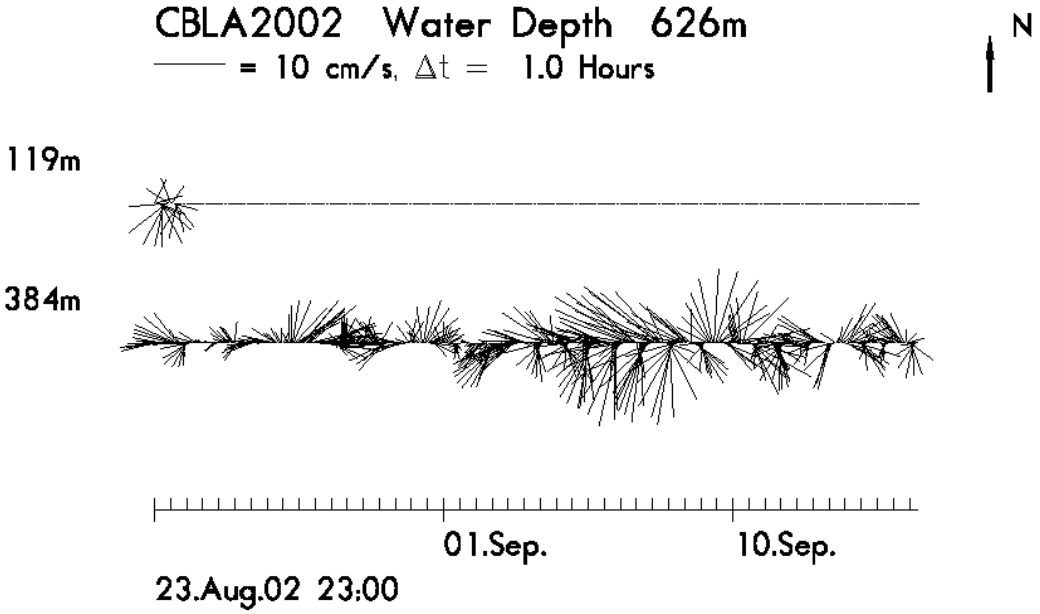


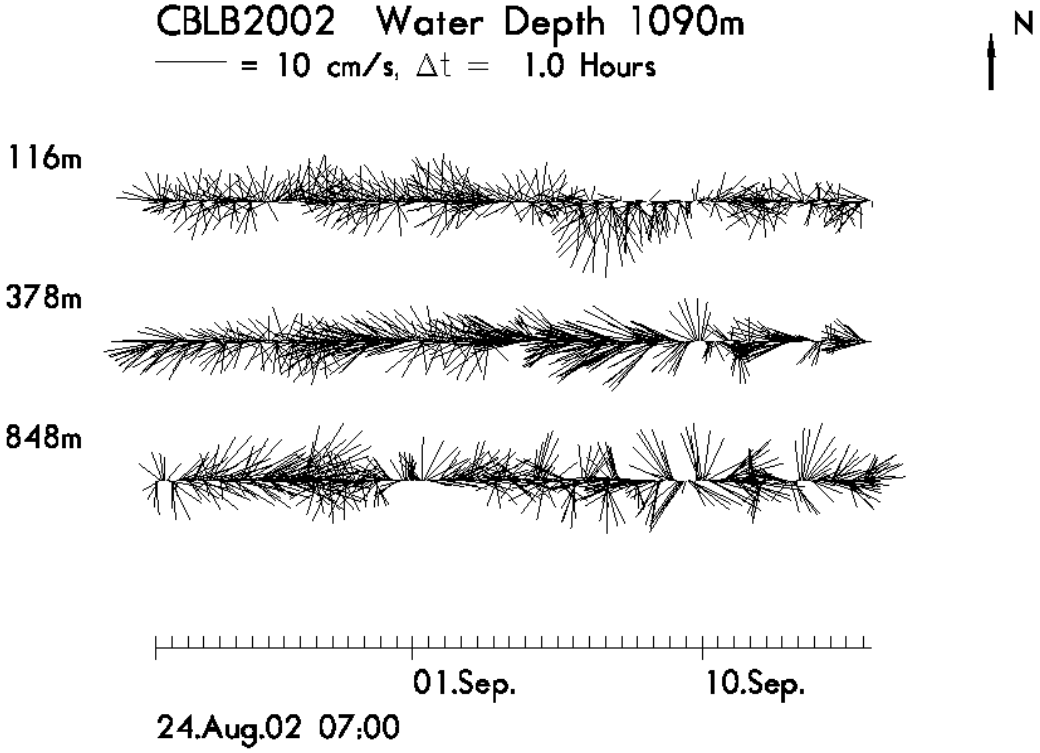
Temperature 0-4000db

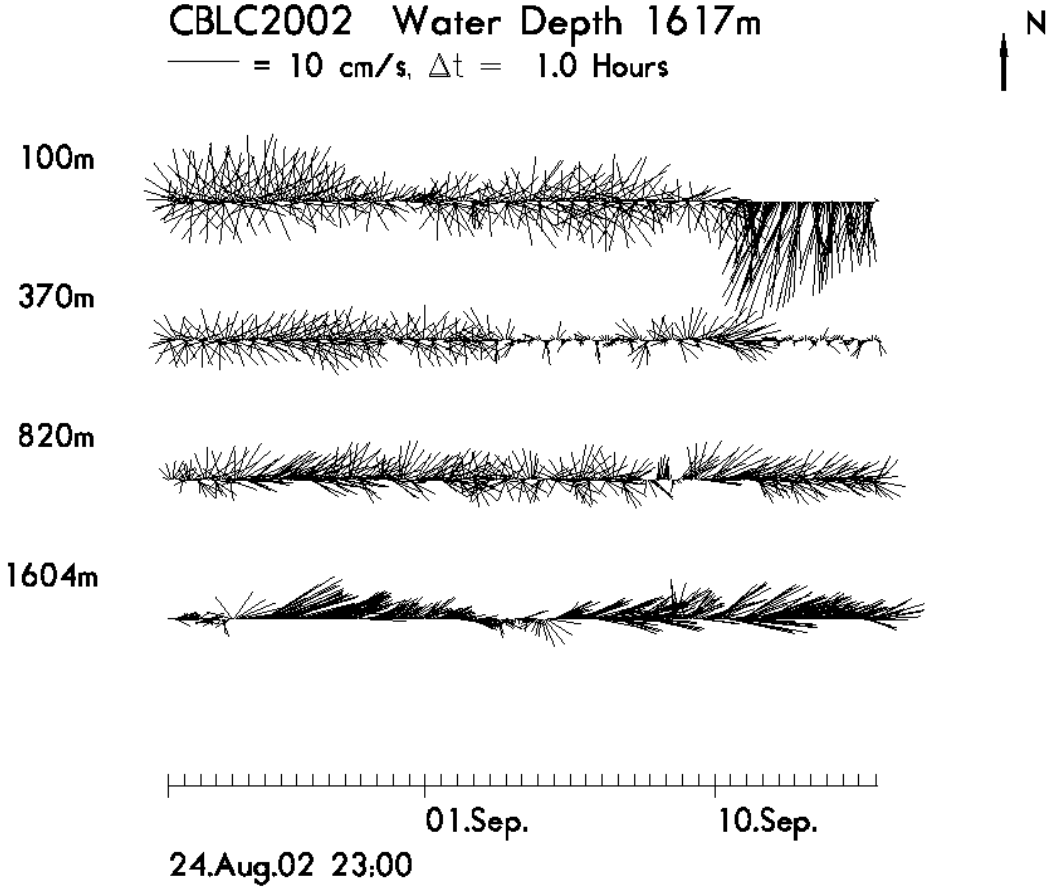
blue=<-1.0 °C
green=-0.4°C
to +0.2 °C
red=>+0.9 °C

CS CS MR CC NW CC CS NW CS

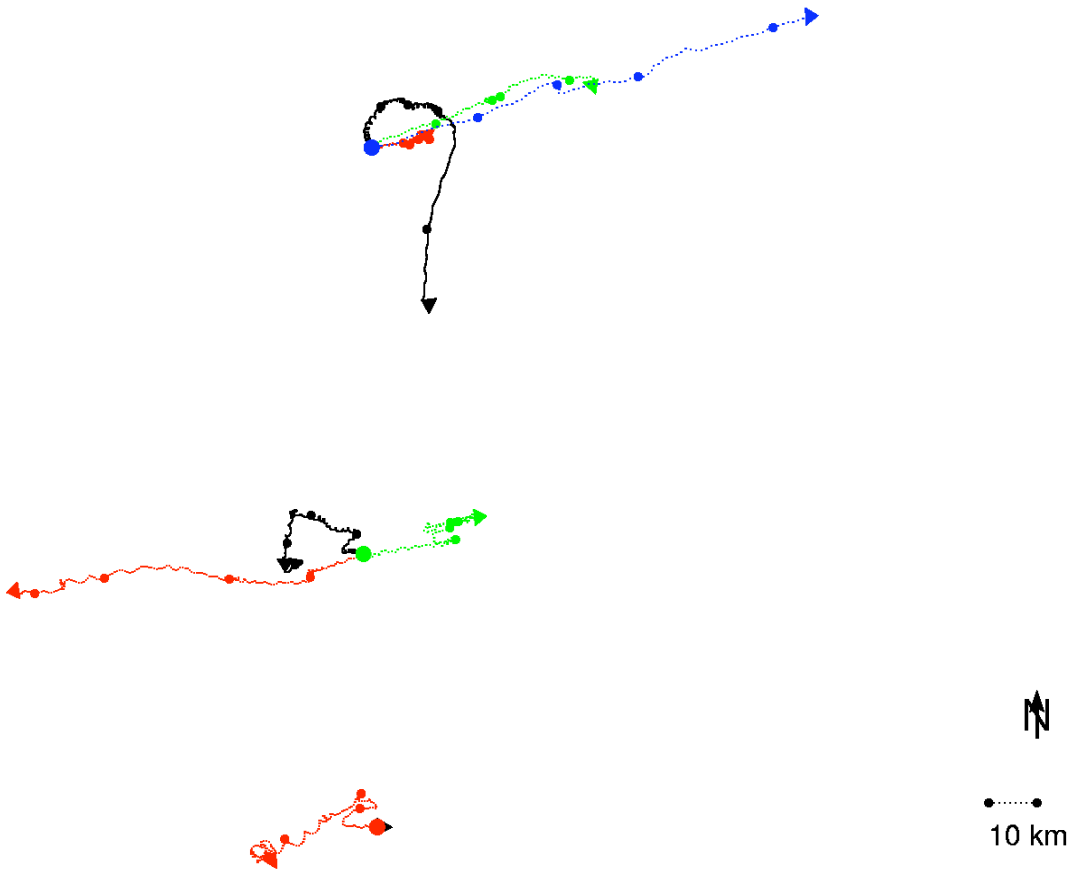
PRELIMINARY MOORING RESULTS CBL 2002
Stickplots of hourly data for the entire deployment






CBLC2002 Water Depth 1617m
—— = 10 cm/s, Δt = 1.0 Hours
N
100m
370m
820m
1604m
01.Sep.
10.Sep.
24.Aug.02 23:00

PRELIMINARY MOORING RESULTS CBL 2002
Progressive Vector Diagrams of hourly data for entire deployment



TOP plot = CBL-C
MIDDLE plot = CBL-B
BOTTOM plot = CBL-A

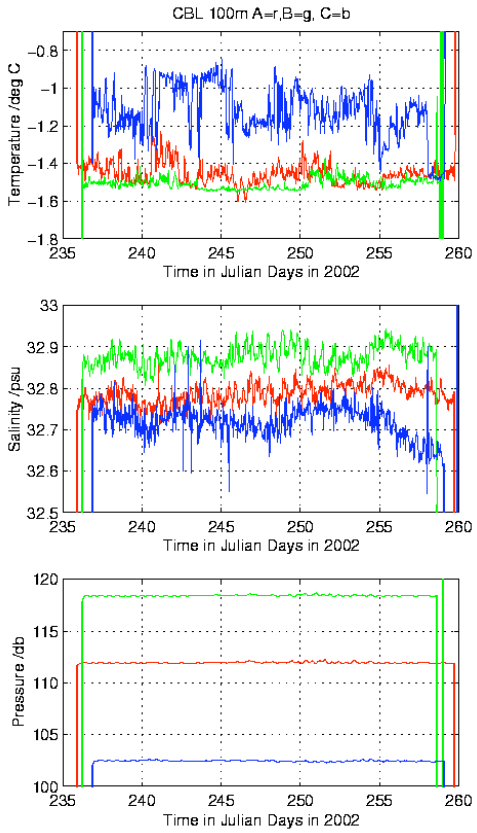
black = rcm at ca. 100m depth
red = rcm at ca 380m depth
green = rcm at 800m depth
blue = rcm at ca 1600m depth

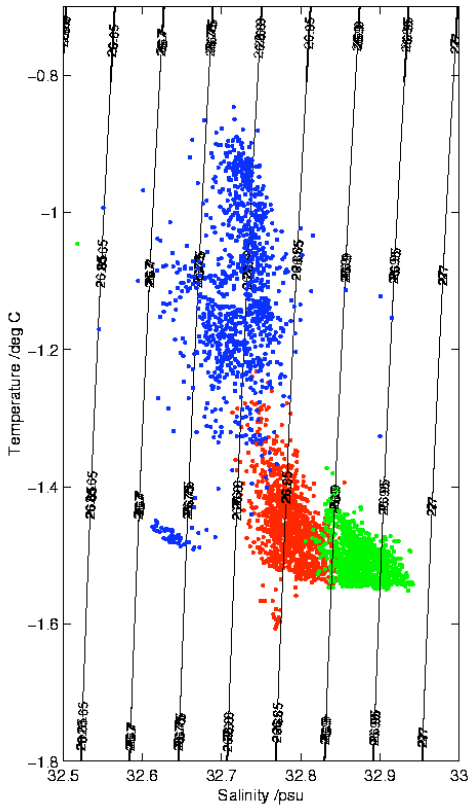
Each record starts at the largest dot (blue for CBL-C, green for CBL-B, red for CBL-A) and moves in the direction of the arrow. The separation of plots does not represent physical separation of moorings.

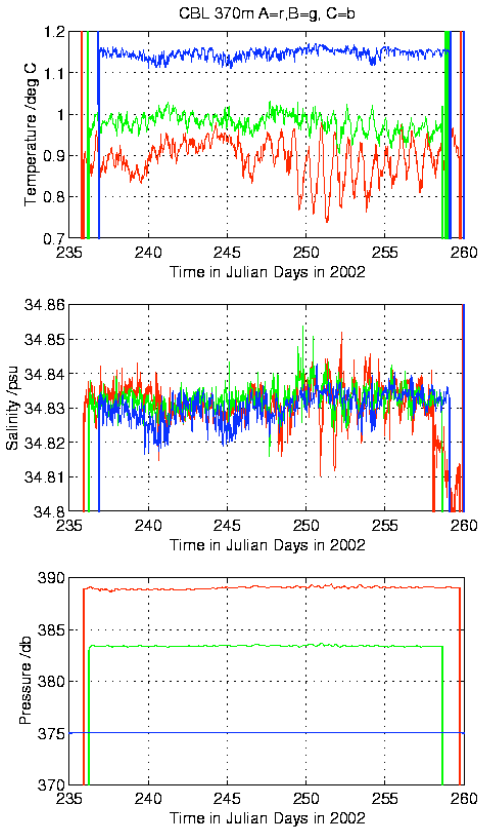
PRELIMINARY MOORING RESULTS CBL 2002

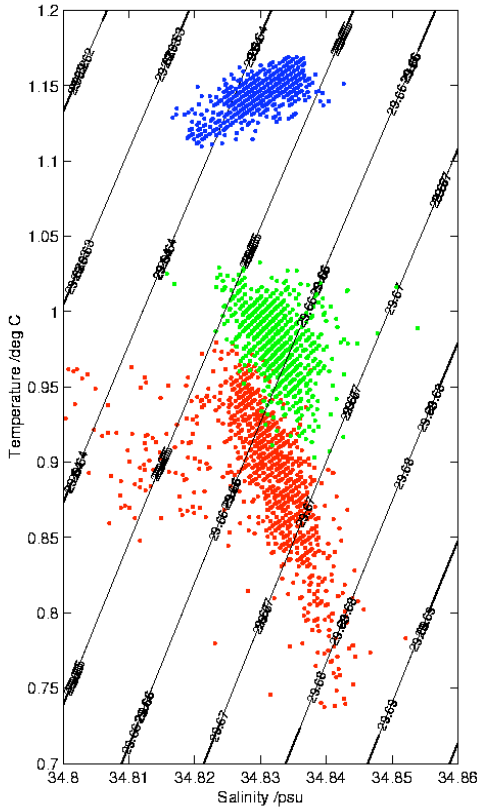
Timeseries and T-S plots from the Seacat records from the entire deployment

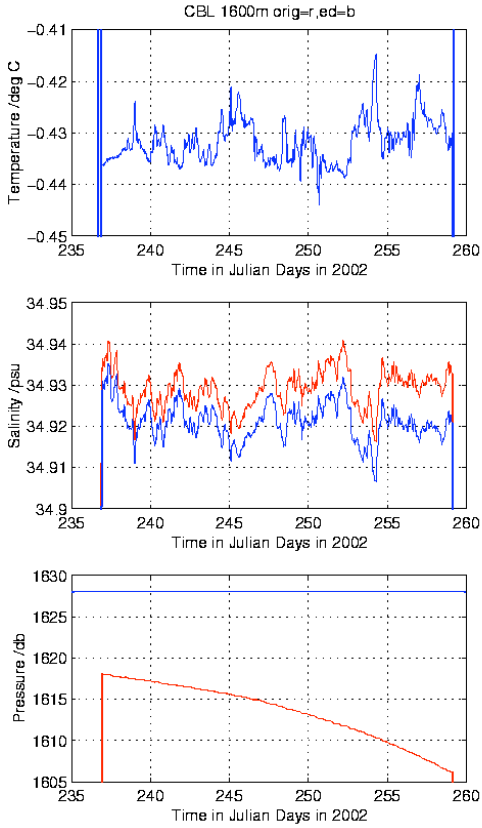
a) For the Seacats at ca.100m CBL-A=red, CBL-B=green, CBL-C=blue
b) For the Seacats at ca.370m CBL-A=red, CBL-B=green, CBL-C=blue
c) For the Microcat at ca.1600m on CBL-C (blue=corrected data, red=using microcat pressure)

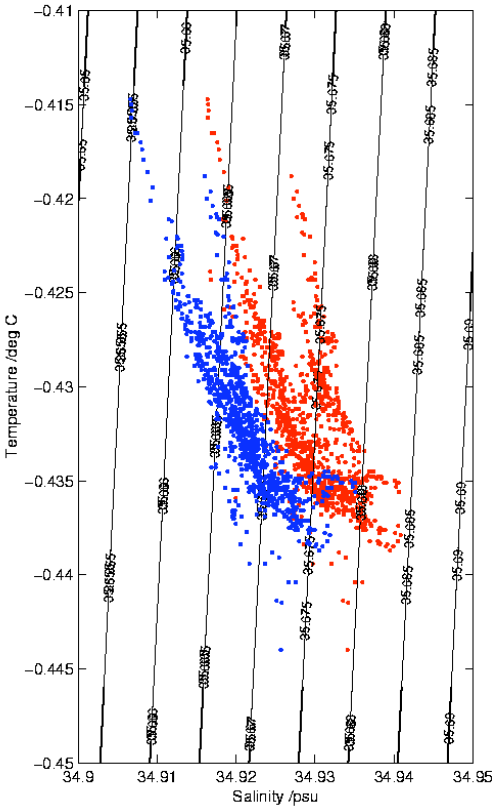




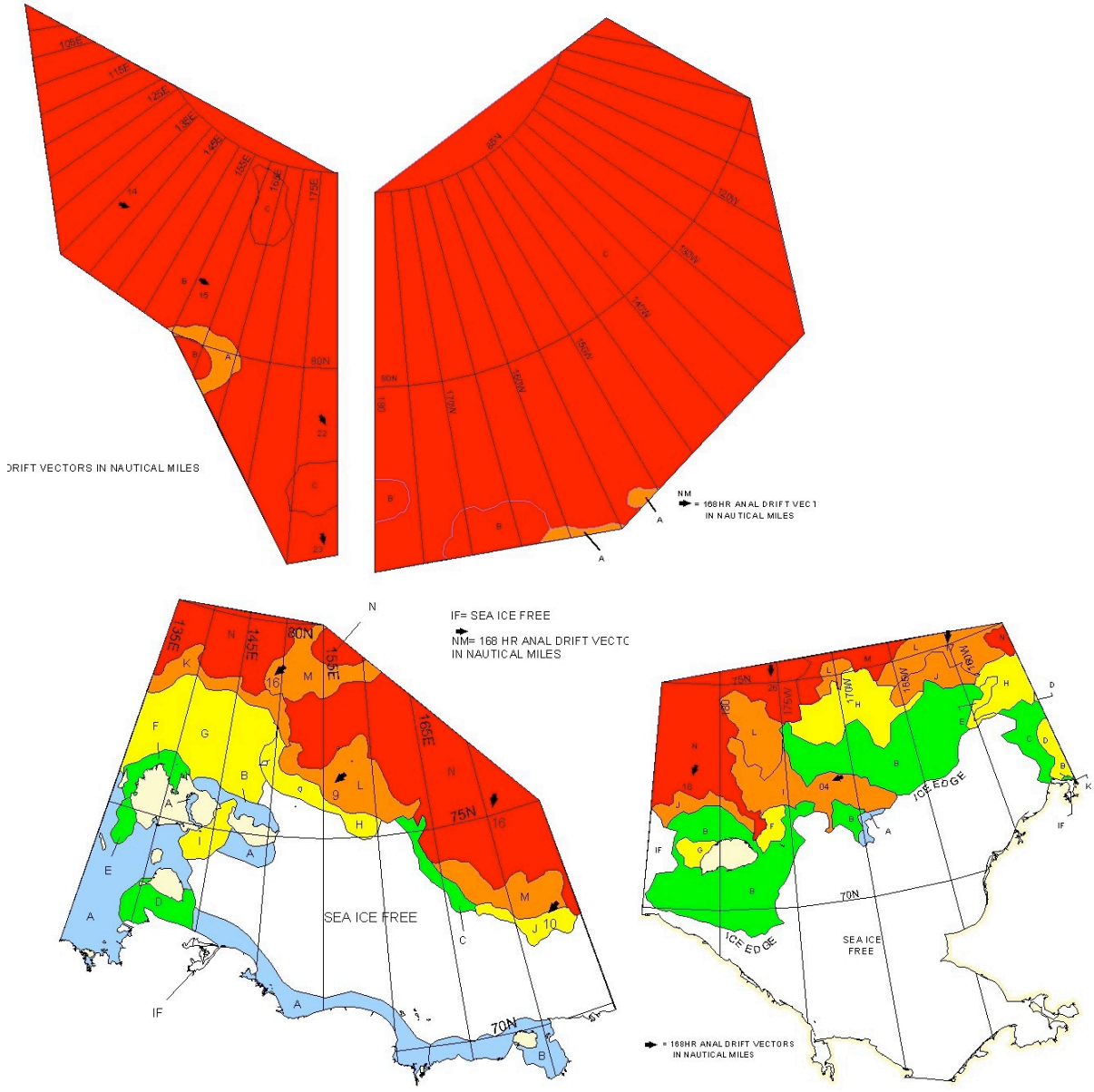

CBL 370m A=r,B=g, C=b
Temperature /deg C
Time in Julian Days in 2002
Salinity /psu
Time in Julian Days in 2002
Pressure /db
Time in Julian Days in 2002


Temperature /deg C
Salinity /psu


CBL 1600m orig=r,ed=b
Temperature /deg C
Time in Julian Days in 2002
Salinity /psu
Time in Julian Days in 2002
Pressure /db
Time in Julian Days in 2002

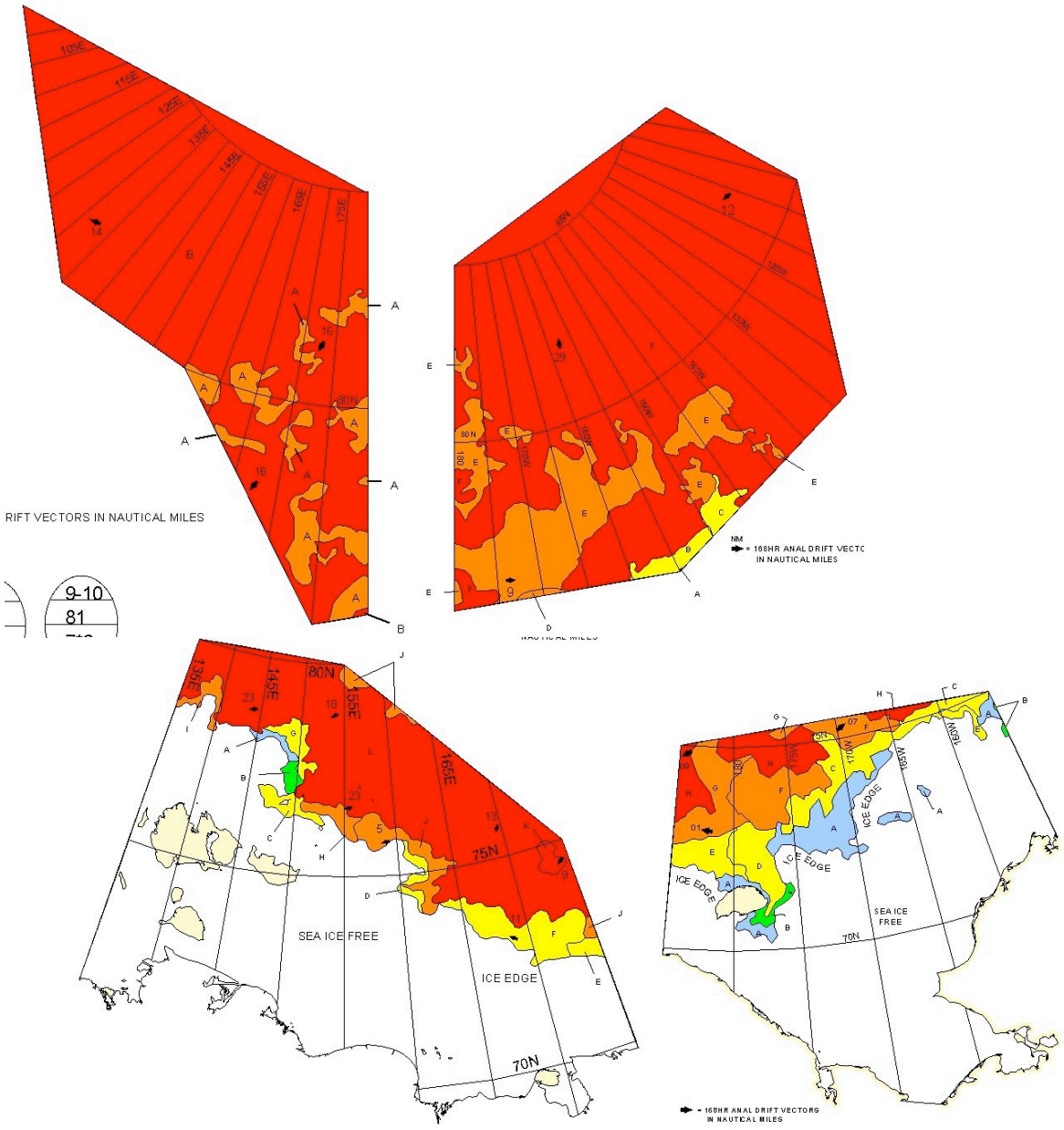

Temperature /deg C
Salinity /psu

Ice Analysis from NATICE, NOAA for 19th August 2002



COLOR CODES BASED ON TOTAL CONCENTRATION	
ICE FREE	4-6 TENTHS
LESS THAN 1 TENTH	7-8 TENTHS
1-3 TENTHS	9-10 TENTHS
	FAST ICE (TEN TENTHS)

Ice Analysis from NATICE, NOAA for 2nd September 2002



COLOR CODES BASED ON TOTAL CONCENTRATION	
ICE FREE	4-6 TENTHS
LESS THAN 1 TENTH	7-8 TENTHS
1-3 TENTHS	9-10 TENTHS
	FAST ICE (TEN TENTHS)

Ice Analysis from NATICE, NOAA for 16th September 2002