

*Oceanography Branch CTD Data Report*  
*CTD\_REPORT\_2012003DE*

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DATE: September 21, 2012

# Oceanography Branch CTD Data Report

## CTD\_REPORT\_2012003DE

NOAA Fisheries Service  
Northeast Fisheries Science Center  
Woods Hole, MA 02543

DEL1203  
Northern Right Whale Survey  
Data Coverage: 15 – 29 March, 2012  
MABN, GB, GOMW

This report presents a summary of surface and bottom temperature and salinity data collected during the Northeast Fisheries Science Center's Northern Right Whale Survey aboard the NOAA FSV *Delaware II*. All data were obtained with Seabird Electronics SBE Model 19 profiling CTD (s/n 1496). Please note that no CTD data were collected for casts 012 and 021.

Data presented here have been audited, however, corrections and/or updates may be applied at a later time.

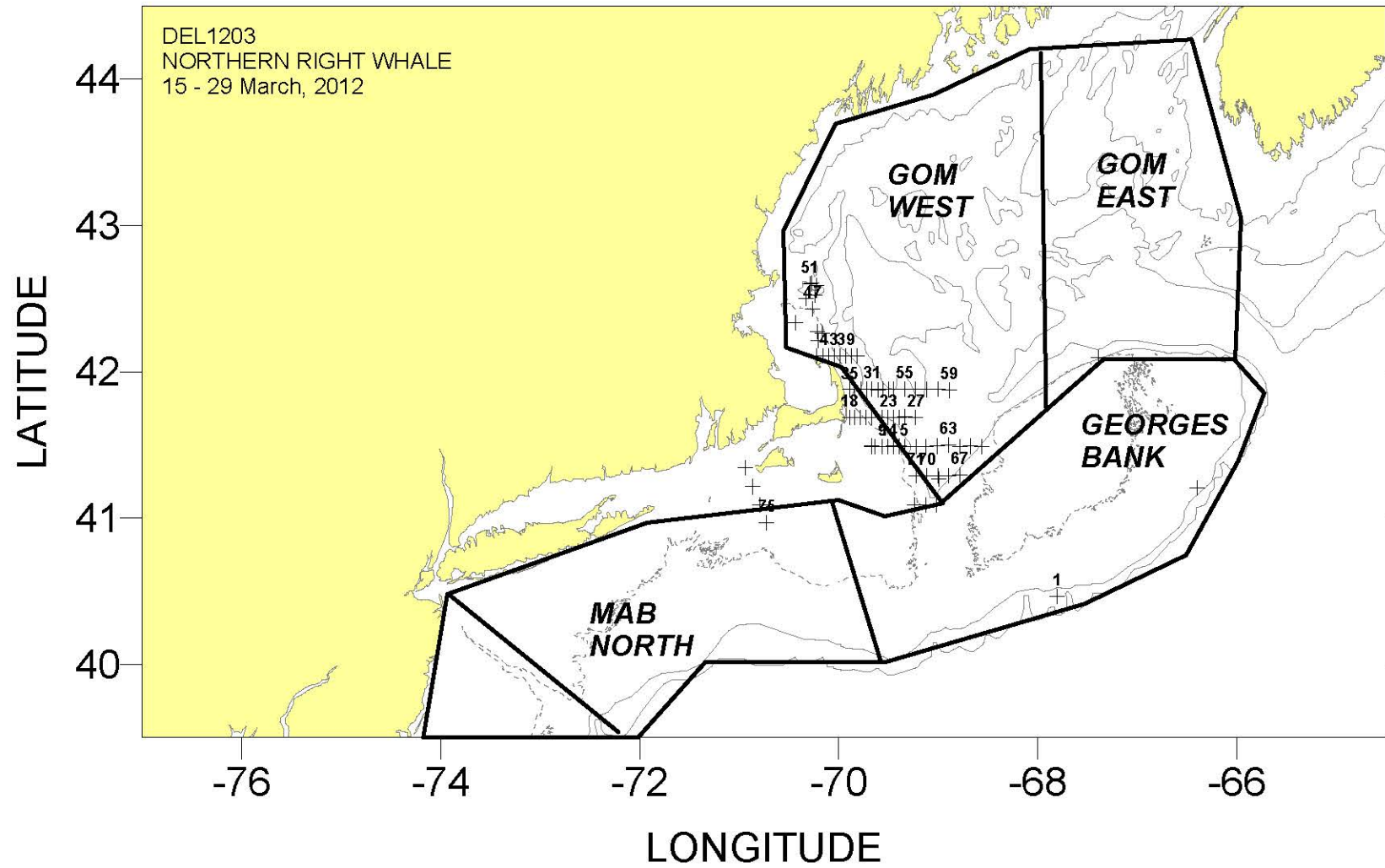
The most recent and complete station data can be found in an NODC formatted ASCII file at:  
<ftp://ftp.nefsc.noaa.gov/pub/hydro/del1203.dat>

This report may be viewed on the Oceanography Branch website at:

<http://www.nefsc.noaa.gov/HydroAtlas/>

choose: **2012 Cruises**  
**DEC\_ECOMON\_DEL1203**  
**CTD\_REPORT\_2012003DE**

Revised: September 21, 2012



Areal average surface and bottom temperature/salinity and temperature/salinity anomalies for DEL1203 - N. Right Whale Survey.

CRUISE	CD	SURFACE						BOTTOM						Purpose	
		#obs	T/S	Anomaly	SDV1	SDV2	Flag	#obs	T/S	Anomaly	SDV1	SDV2	Flag		
							<b>GOMW</b>								
DEL1203	80	53	6.71	2.88	0.16	0.8	1	53	6.8	2.74	0.13	0.69	1	93	
DEL1203	80	53	32.63	-0.19	0.1	0.36	1	53	33.22	0.06	0.08	0.23	1	93	
							<b>GB</b>								
DEL1203	81	9	7.1	2.41	0.39	0.5	1	7	7	2.31	0.41	0.46	1	93	
DEL1203	81	9	32.89	-0.18	0.22	0.2	1	7	33.02	-0.09	0.22	0.32	1	93	
							<b>MAB NORTH</b>								
DEL1201	85	2	8.16	4.37	0.81	0.19	1	2	7.03	3.8	0.79	0.12	1	93	
DEL1203	85	2	32.48	-0.13	0.51	0.22	1	2	32.65	-0.06	0.5	0	1	93	

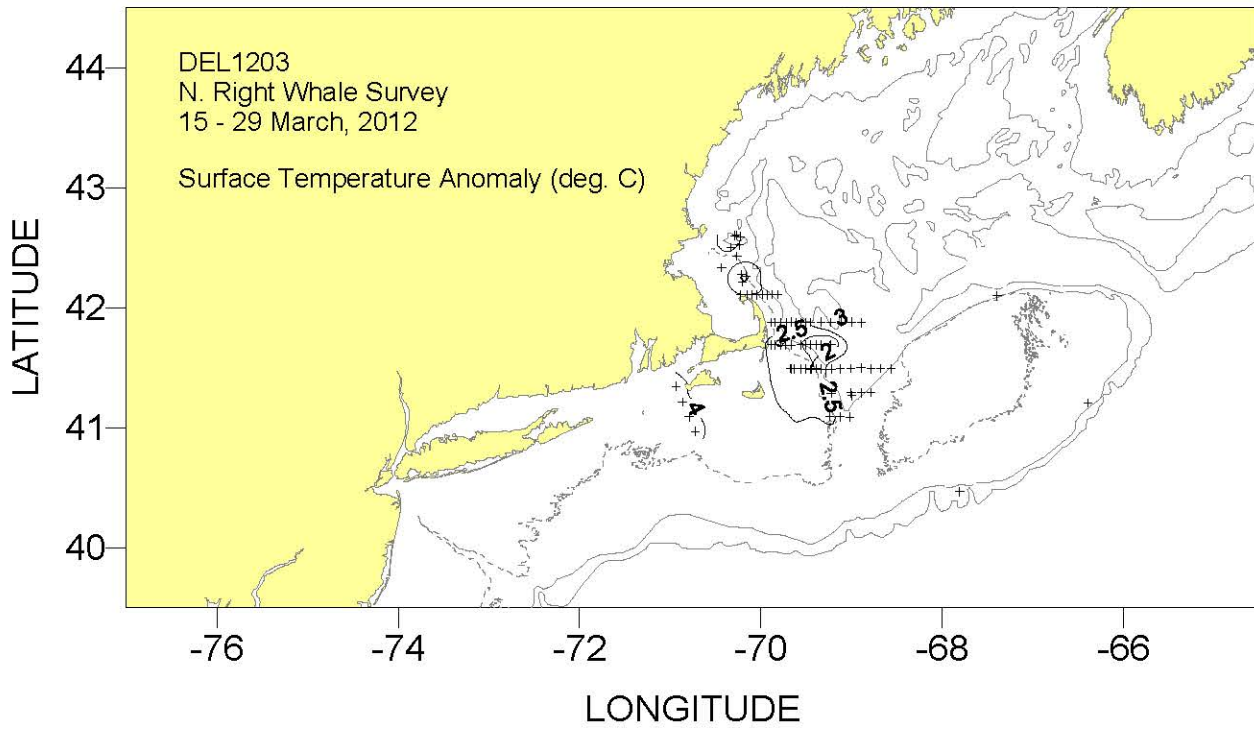
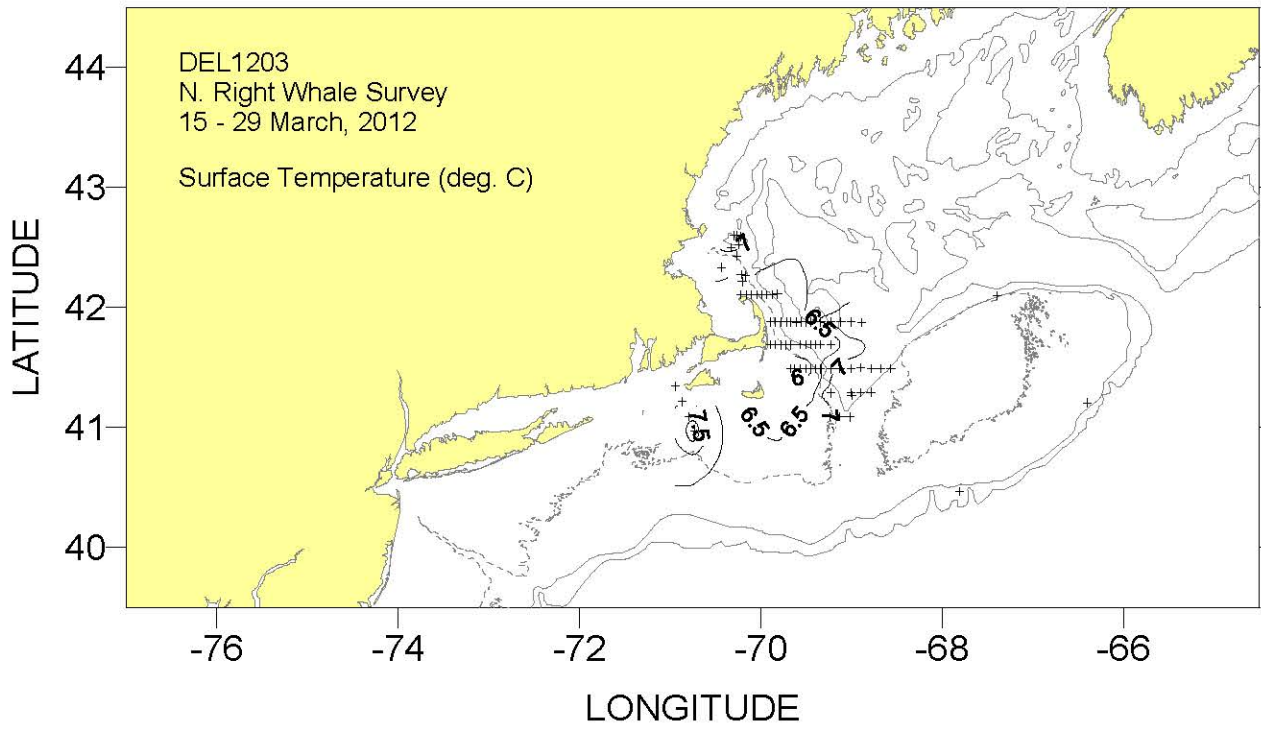
"CRUISE", the code name for a cruise: "CD", the calendar mid-date of all the stations within a region for a cruise:

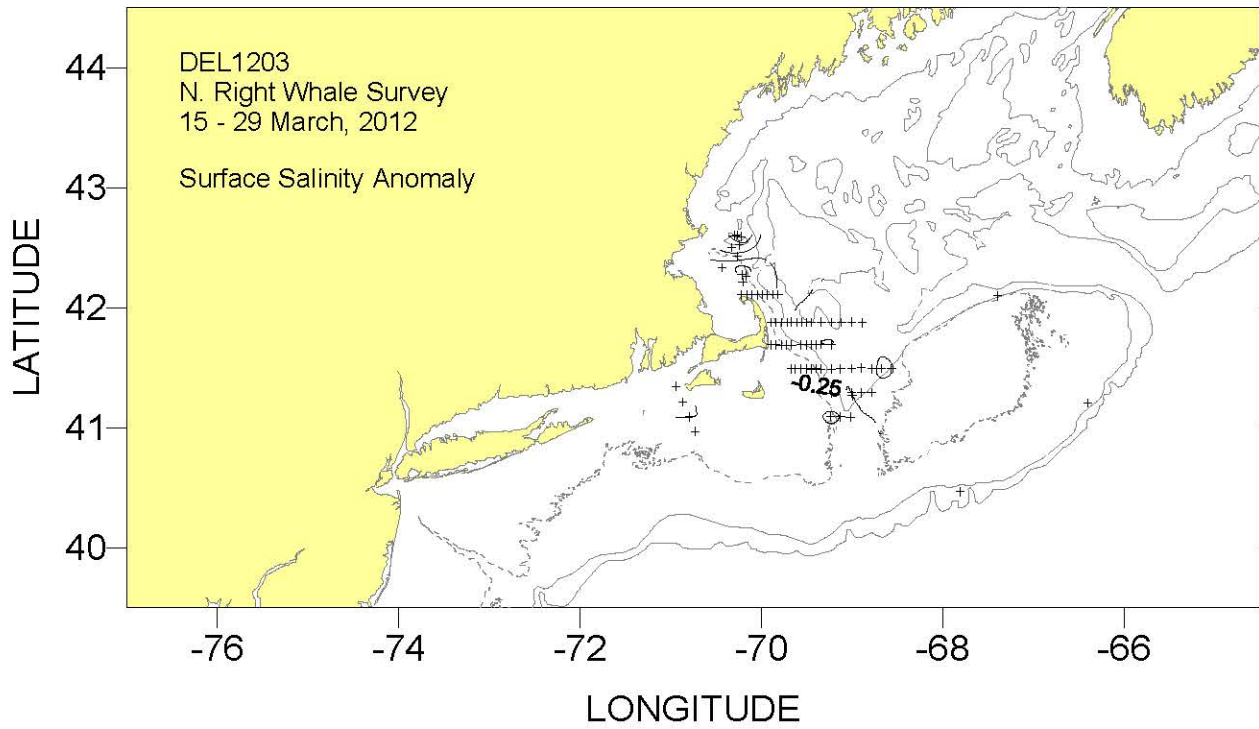
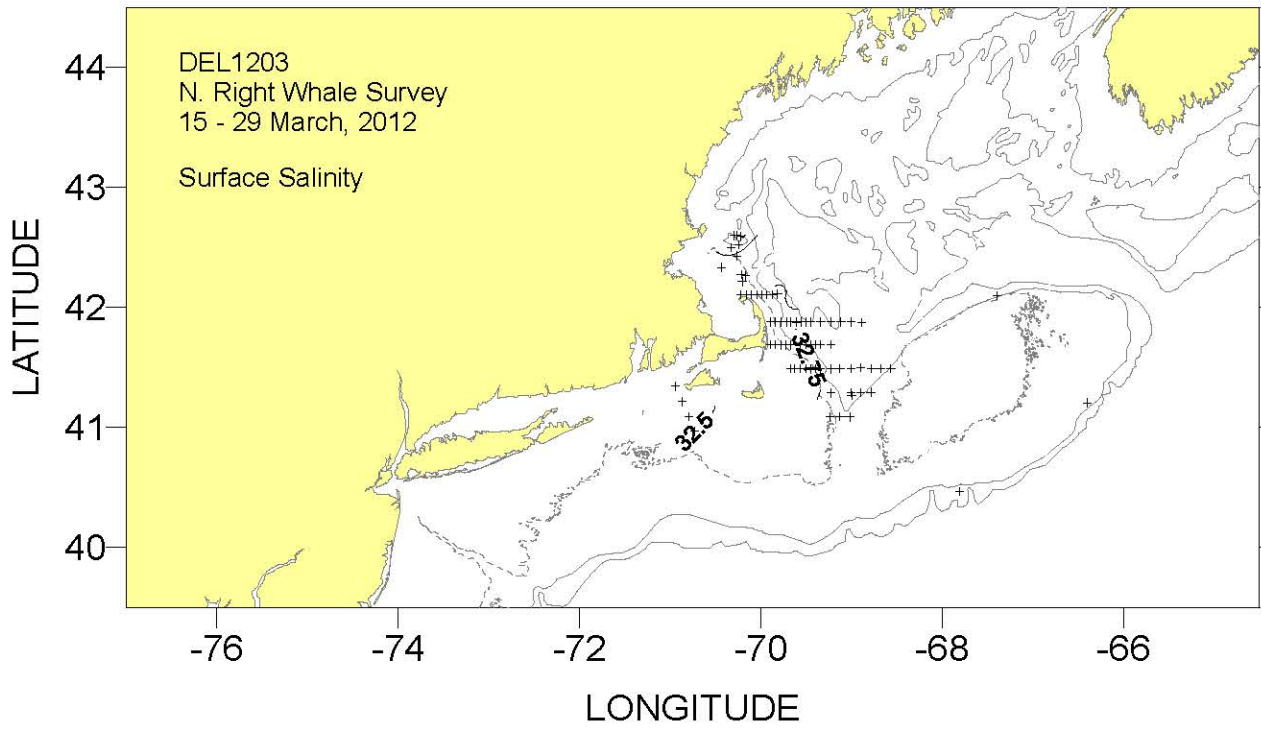
"#obs", the number of observations included in each average: "T/S", the areal average temp/salt: "Anomaly", the areal average temp/salt anomaly:

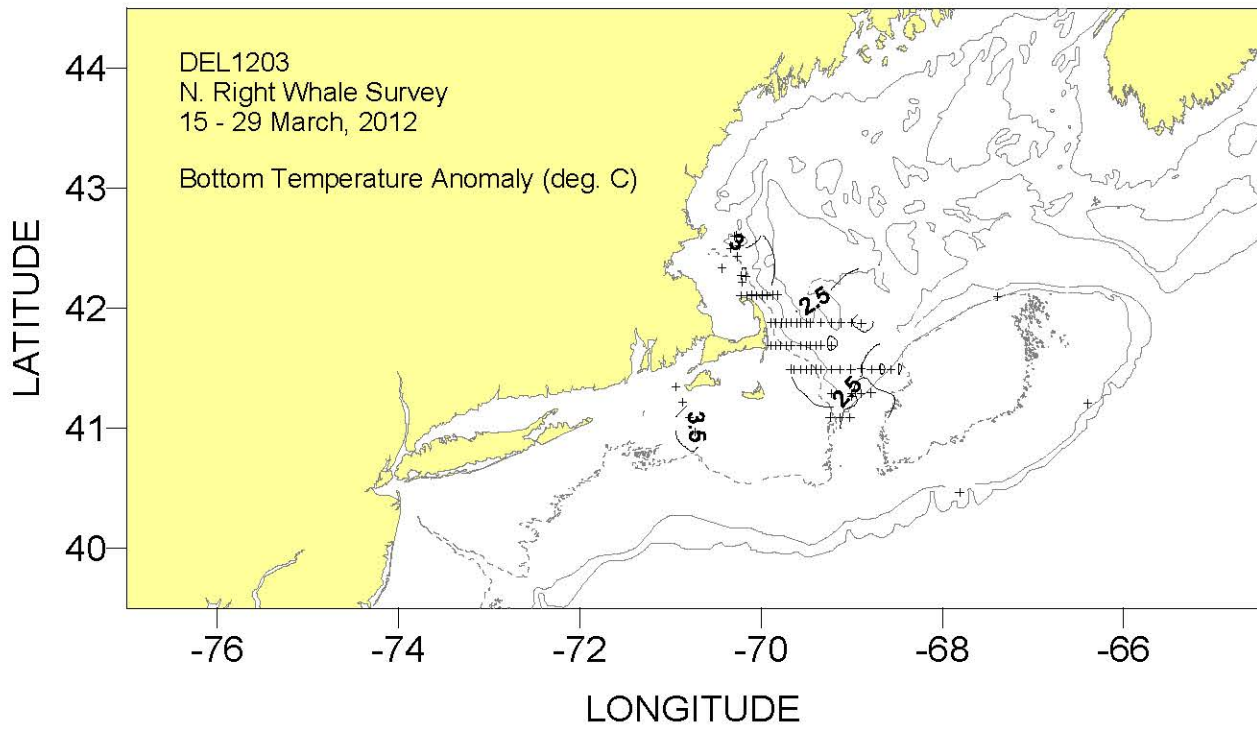
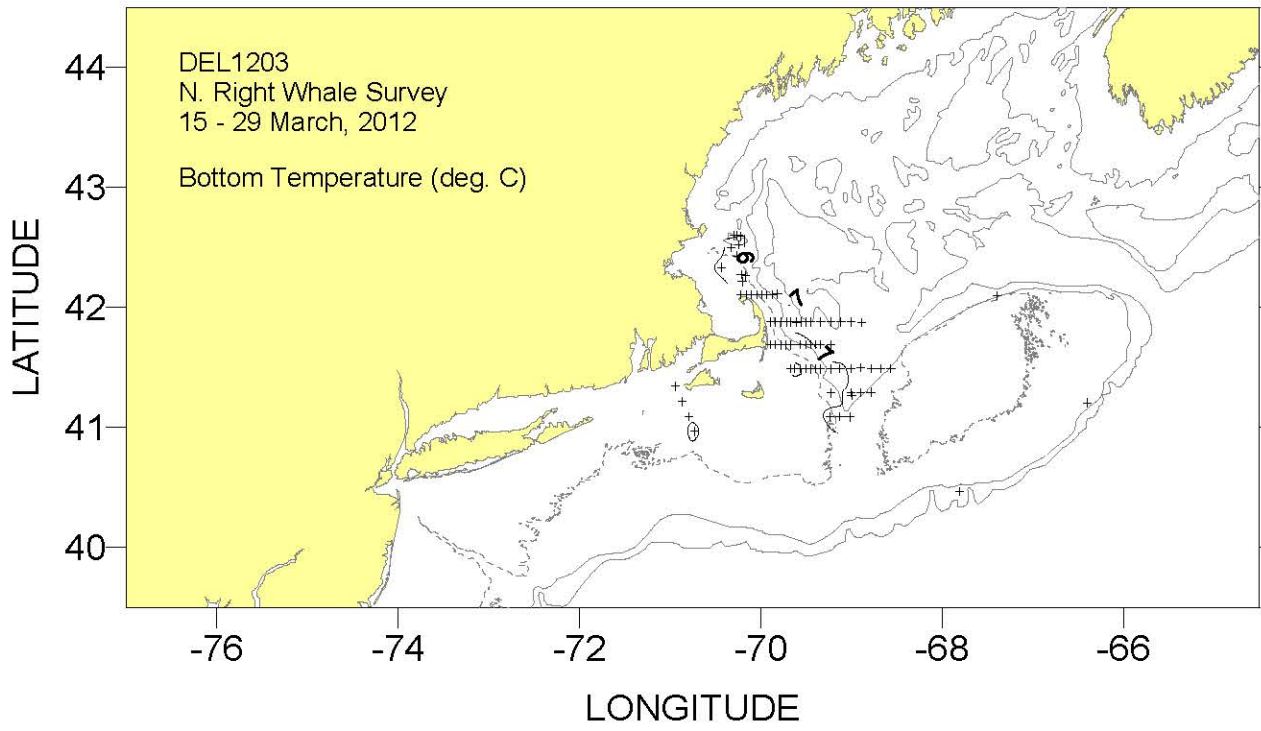
"SDV1", the standard deviation associated with the average temp/salt anomaly: "SDV2", the standard deviation of the individual anomalies from which the average anomaly was derived

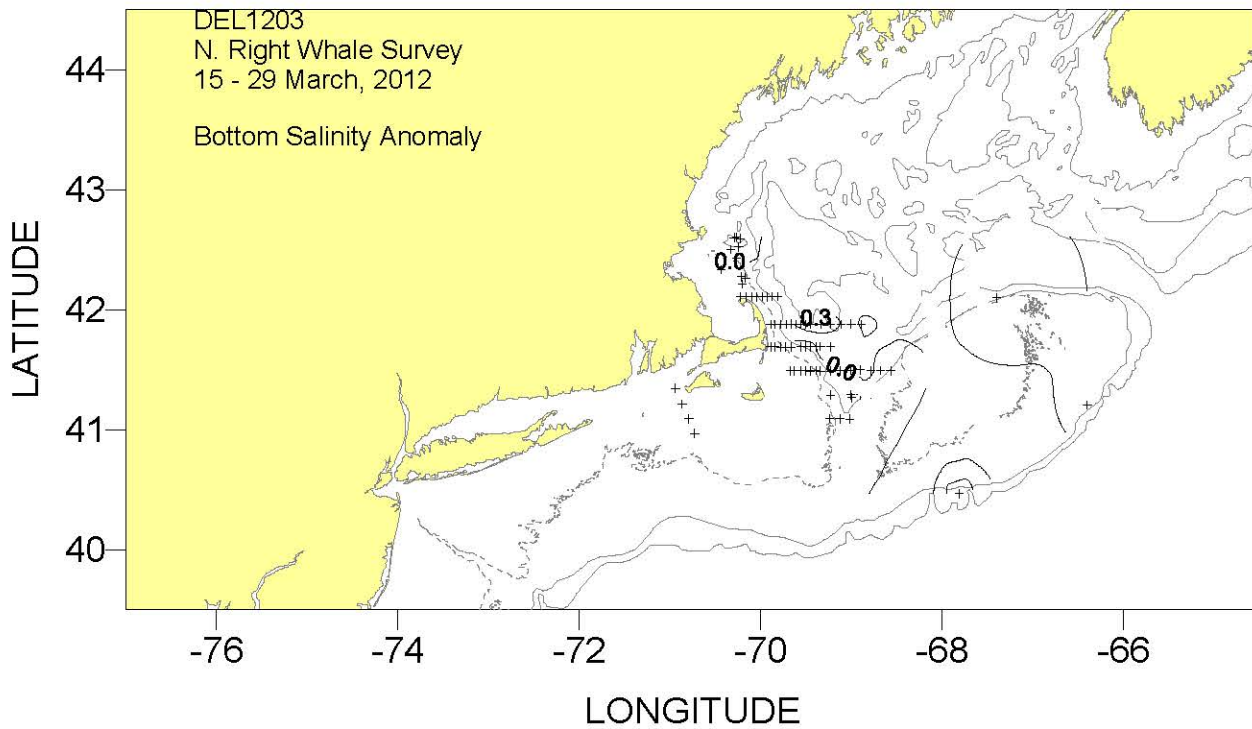
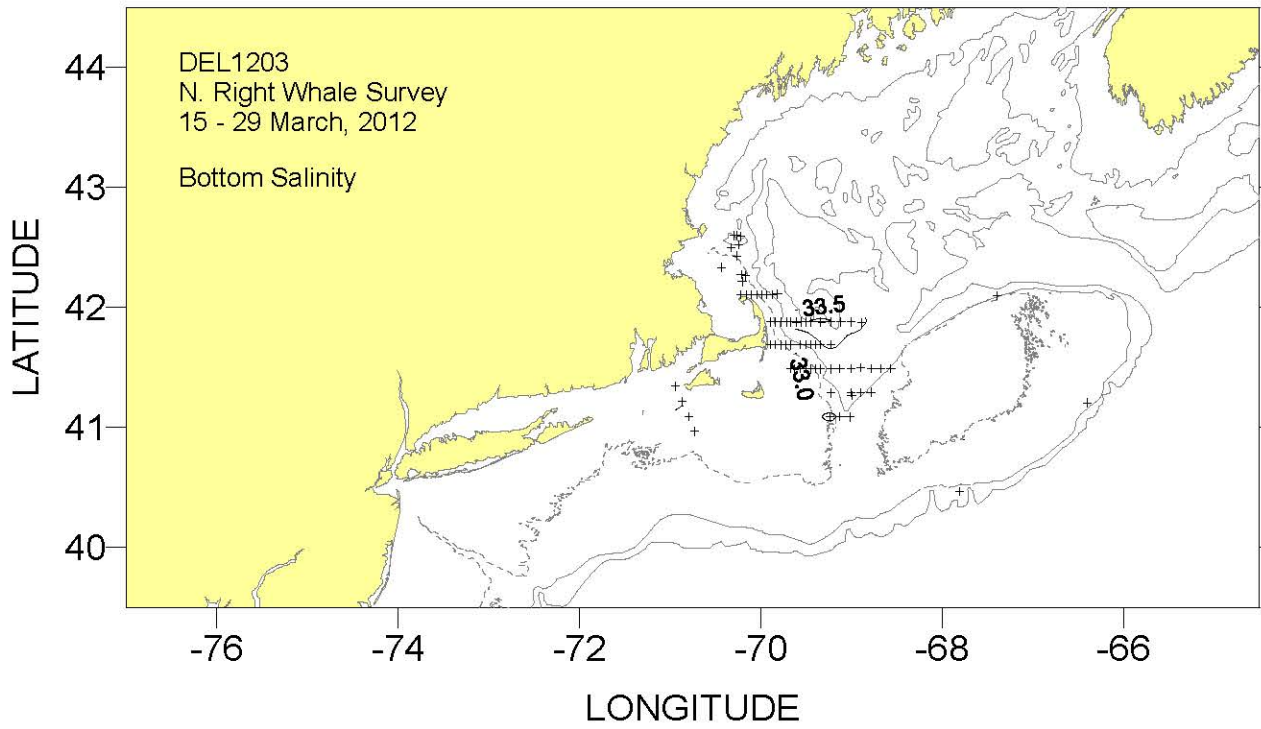
"Flag", a value of "1" indicates that a true areal average could not be calculated due to poor station coverage. The areal averages listed were derived from a simple average of the observations within the region.

"Purpose", 2 digit code assigned by DMS to identify a unique NEFSC program survey.











DEL1203  
N. RIGHT WHALE SURVEY  
15 - 29 March, 2012

Cast #	Sta #	Lat (deg. N)	Lon (deg. W)	Day	Mo	Year	Time (GMT)	Btm Depth (m)	Sfc Temp (deg. C)	Sfc Salt	Deepest Obs. Temp (deg. C)	Deepest Obs. Salt	Meters from Btm	Cast Type
1	1	4028.0	6748.5	15	3	2012	14:40	131	6.8	32.68	12.0	35.00	3	W
2	2	4112.3	6623.8	16	3	2012	1:31	98	6.2	32.59	6.8	33.10	3	W
3	3	4205.8	6723.7	16	3	2012	11:07	70	6.7	33.00	6.7	33.01	3	W
4	4	4115.9	6859.8	16	3	2012	21:25	148	7.0	32.96	7.1	33.20	3	W
5	5	4129.3	6920.4	17	3	2012	0:51	84	6.1	32.78	6.5	32.95	4	W
6	6	4129.4	6926.8	17	3	2012	2:09	52	5.9	32.67	6.0	32.73	3	W
7	7	4129.5	6926.8	17	3	2012	2:40	51	5.9	32.68	6.0	32.75	4	W
8	8	4129.2	6926.9	17	3	2012	2:58	50	6.0	32.73	6.0	32.74	3	W
9	9	4129.4	6933.6	17	3	2012	4:34	35	5.8	32.47	5.8	32.56	4	W
10	10	4129.4	6940.1	17	3	2012	5:24	30	5.7	32.50	5.7	32.50	3	W
11	11	4129.5	6940.3	17	3	2012	5:34	30	5.7	32.49	5.7	32.50	4	W
13	13	4129.4	6938.0	17	3	2012	6:24	32	5.7	32.54	5.7	32.54	3	V
14	14	4129.4	6930.2	17	3	2012	7:34	41	5.9	32.59	5.9	32.67	4	V
15	15	4129.5	6923.5	17	3	2012	8:49	63	5.9	32.71	6.1	32.79	4	V
16	16	4141.3	6940.0	18	3	2012	0:31	90	6.3	32.52	6.2	32.98	2	W
17	17	4141.3	6946.8	18	3	2012	1:31	50	5.5	32.28	5.9	9999	5	V
18	18	4141.4	6953.4	18	3	2012	2:22	20	5.8	32.24	5.5	32.25	0	W
19	19	4141.4	6950.5	18	3	2012	2:54	32	5.7	32.26	5.4	32.30	2	V
20	20	4141.3	6943.4	18	3	2012	3:49	69	5.9	32.47	6.1	32.92	1	V
22	22	4141.4	6933.6	18	3	2012	5:09	138	6.0	32.42	6.8	33.26	3	V
23	23	4141.4	6930.2	18	3	2012	5:39	127	5.9	32.44	6.8	33.26	1	V
24	24	4141.4	6927.2	18	3	2012	6:07	149	5.9	32.54	6.9	33.32	4	V
25	25	4141.4	6923.5	18	3	2012	6:40	171	6.1	32.77	7.4	33.54	5	W
26	26	4141.5	6920.4	18	3	2012	7:13	187	6.2	32.75	7.5	33.54	3	V
27	27	4141.4	6913.6	18	3	2012	8:06	190	5.8	32.54	8.0	33.76	5	V
28	28	4152.7	6930.1	19	3	2012	2:22	201	6.6	32.97	8.2	34.12	3	W
29	29	4152.7	6933.5	19	3	2012	3:00	194	6.6	32.97	8.1	34.03	4	V
30	30	4152.6	6936.4	19	3	2012	3:31	196	6.3	32.93	8.0	33.93	4	V
31	31	4152.8	6940.0	19	3	2012	4:04	171	6.2	32.92	7.4	33.58	4	V

Cast #	Sta #	Lat (deg. N)	Lon (deg. W)	Day	Mo	Year	Time (GMT)	Btm Depth (m)	Sfc Temp (deg. C)	Sfc Salt	Deepest Obs. Temp (deg. C)	Deepest Obs. Salt	Meters from Btm	Cast Type
32	32	4152.7	6943.0	19	3	2012	4:31	128	6.3	32.69	6.6	33.20	2	W
33	33	4152.7	6946.7	19	3	2012	5:03	120	5.9	32.27	6.2	33.04	6	V
34	34	4152.7	6950.4	19	3	2012	5:40	68	5.8	32.19	6.1	32.97	5	V
35	35	4152.7	6953.4	19	3	2012	6:04	38	5.7	32.20	5.9	32.74	6	W
36	36	4206.4	7013.4	19	3	2012	11:56	65	5.7	32.09	5.8	32.60	5	W
37	37	4206.4	7009.4	20	3	2012	0:26	40	5.8	32.19	5.8	32.56	4	V
38	38	4206.4	7002.7	20	3	2012	1:07	51	6.2	32.67	6.0	32.83	5	V
39	39	4206.4	6955.8	20	3	2012	1:47	102	7.0	32.88	6.2	33.04	5	V
40	40	4206.6	6948.9	20	3	2012	2:31	150	6.5	32.90	7.0	33.41	8	W
41	41	4206.5	6952.4	20	3	2012	3:01	139	6.5	32.91	6.8	33.31	6	V
42	42	4206.5	6959.1	20	3	2012	3:45	100	6.7	32.73	6.2	33.01	5	W
43	43	4206.5	7006.0	20	3	2012	4:31	41	6.0	32.17	5.9	32.58	5	V
44	44	4212.9	7012.3	21	3	2012	0:04	37	6.4	32.33	5.8	32.54	5	V
45	45	4215.8	7010.0	21	3	2012	0:38	54	6.8	32.59	6.0	32.88	6	V
46	46	4216.4	7012.9	21	3	2012	1:04	40	6.5	32.50	5.8	32.70	6	V
47	47	4225.8	7015.8	21	3	2012	2:28	64	6.3	32.37	5.9	32.82	5	V
48	48	4231.3	7014.4	21	3	2012	3:50	142	7.1	32.39	5.9	32.87	5	V
49	49	4235.5	7013.4	21	3	2012	4:52	75	7.4	31.88	6.0	32.90	6	V
50	50	4236.2	7016.1	21	3	2012	5:33	105	7.6	31.69	6.0	32.90	9	V
51	51	4236.0	7017.5	21	3	2012	5:58	65	7.4	31.80	5.9	32.87	6	V
52	52	4230.0	7019.8	21	3	2012	7:39	92	7.4	31.98	6.0	32.90	7	V
53	53	4220.0	7026.0	21	3	2012	9:10	89	6.5	32.59	5.8	32.78	5	V
54	54	4152.7	6927.2	22	3	2012	1:01	210	7.1	32.96	8.2	34.18	9	W
55	55	4152.8	6920.3	22	3	2012	1:47	202	7.3	32.93	8.2	34.15	5	V
56	56	4152.7	6913.6	22	3	2012	2:31	213	7.2	32.90	8.1	34.04	3	V
57	57	4152.7	6906.9	22	3	2012	3:13	200	7.7	32.96	8.1	33.94	4	W
58	58	4152.8	6900.1	22	3	2012	4:00	172	7.6	32.95	7.9	33.69	2	W
59	59	4152.4	6853.4	22	3	2012	4:43	157	7.4	32.95	7.5	33.55	6	V
60	60	4129.3	6913.5	22	3	2012	19:15	154	7.4	32.74	7.1	33.28	3	W
61	61	4129.4	6907.6	22	3	2012	19:57	153	7.7	32.82	7.2	33.30	2	V
62	62	4129.5	6900.4	22	3	2012	20:55	151	7.1	32.71	6.9	33.20	2	V
63	63	4129.9	6853.8	22	3	2012	21:51	154	7.1	32.77	7.3	33.38	6	W
64	64	4129.4	6847.0	22	3	2012	22:46	150	7.0	32.87	7.4	33.39	6	V
65	65	4129.5	6840.8	22	3	2012	23:37	125	7.3	32.93	7.0	33.17	5	V

Cast #	Sta #	Lat (deg. N)	Lon (deg. W)	Day	Mo	Year	Time (GMT)	Btm Depth (m)	Sfc Temp (deg. C)	Sfc Salt	Deepest Obs. Temp (deg. C)	Deepest Obs. Salt	Meters from Btm	Cast Type
66	66	4129.4	6833.9	23	3	2012	0:31	98	7.7	32.91	7.0	32.99	5	W
67	67	4117.6	6847.1	23	3	2012	3:00	95	7.3	32.79	7.1	32.97	6	W
68	68	4117.4	6853.7	23	3	2012	3:57	122	7.6	32.95	7.1	33.00	6	V
69	69	4117.4	6900.2	23	3	2012	4:49	153	7.7	32.94	7.0	33.14	6	W
70	70	4117.3	6913.5	23	3	2012	5:45	151	7.3	32.93	7.0	33.15	5	V
71	71	4117.3	6913.5	23	3	2012	6:40	98	7.6	32.83	7.0	33.07	5	W
72	72	4105.5	6914.3	23	3	2012	8:19	56	7.2	32.97	7.2	32.97	7	W
73	73	4105.4	6907.6	23	3	2012	9:08	88	7.1	33.02	7.1	33.04	4	V
74	74	4105.3	6901.1	23	3	2012	10:13	93	7.3	33.03	7.1	33.03	6	W
75	75	4058.1	7043.6	24	3	2012	0:25	51	8.4	32.61	7.2	32.70	5	W
76	76	4105.4	7047.5	25	3	2012	2:04	37	7.9	32.34	6.9	32.60	6	V
77	77	4112.9	7051.9	25	3	2012	3:43	18	7.5	32.26	6.4	32.28	2	V
78	78	4120.6	7056.3	25	3	2012	5:39	31	7.7	32.24	7.0	32.43	5	W