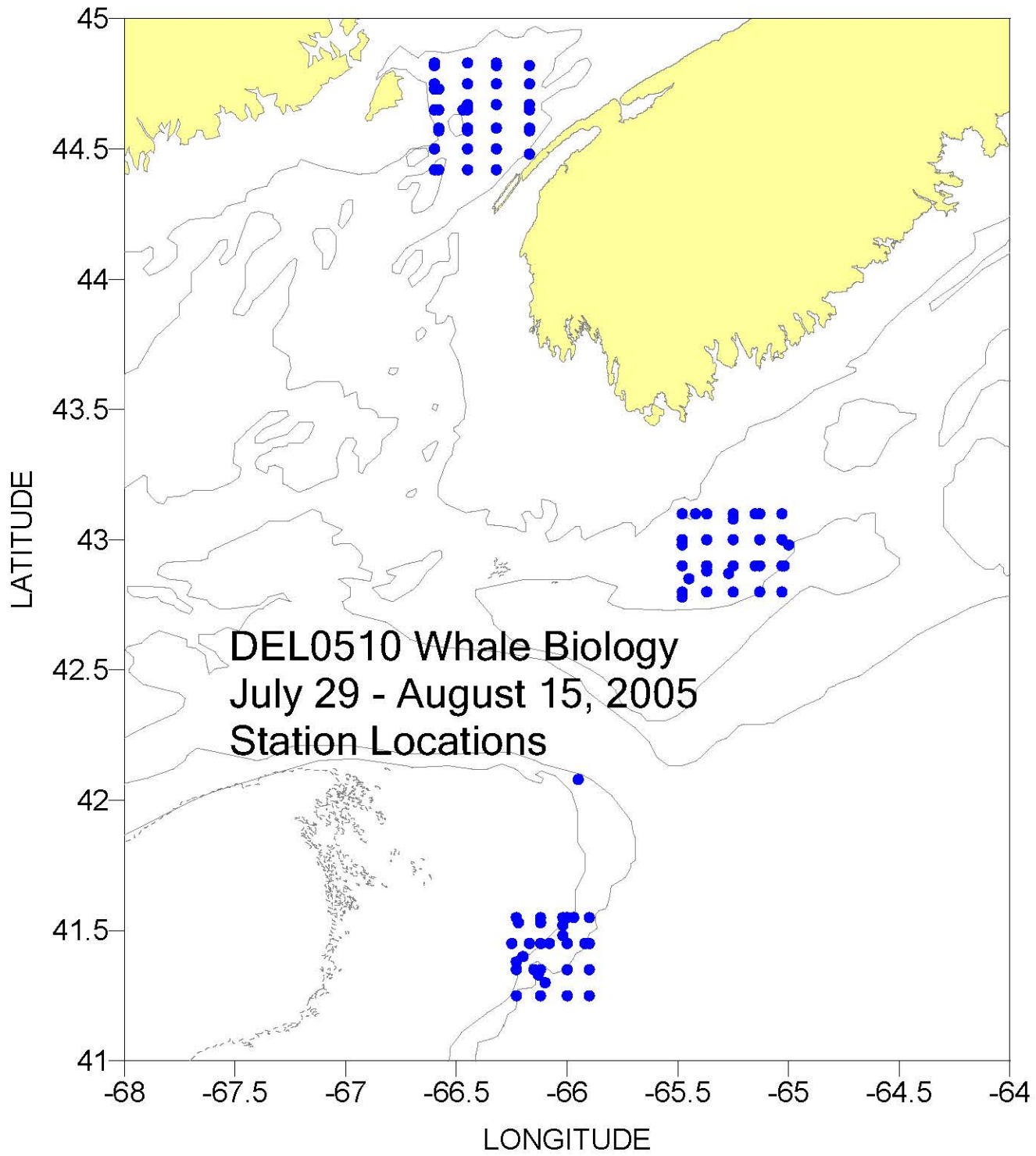
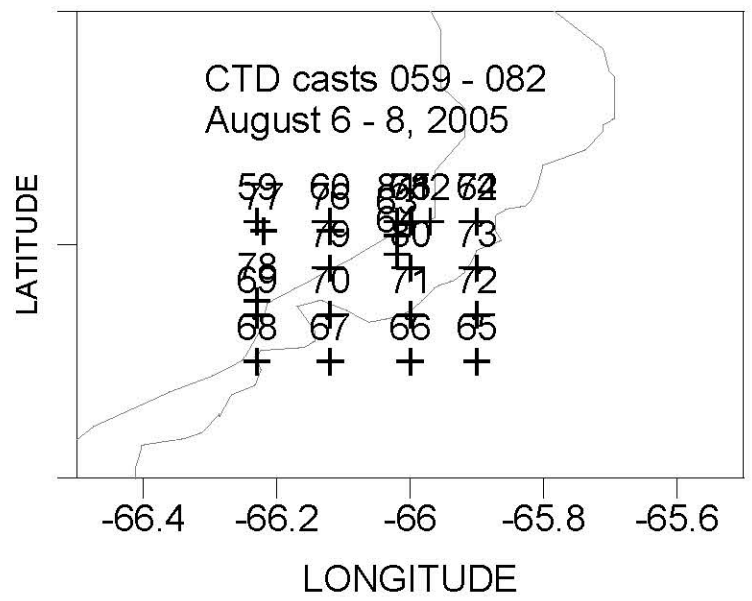
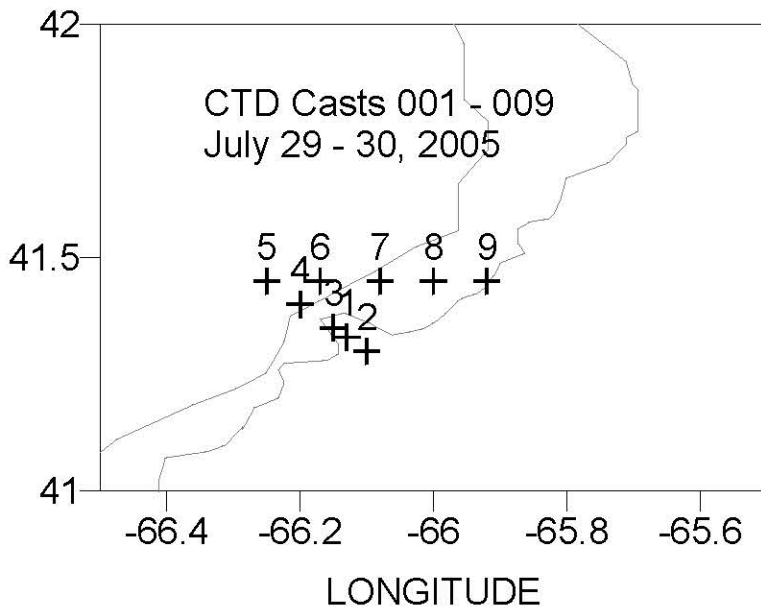
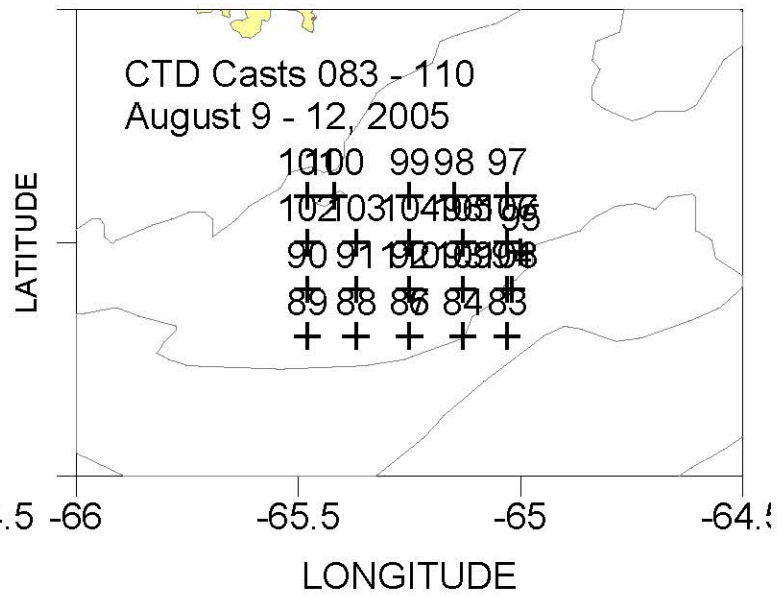
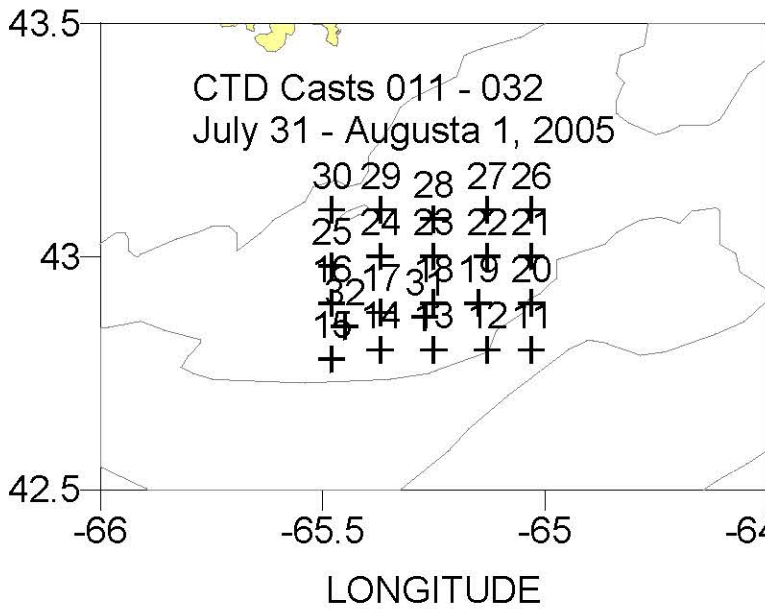
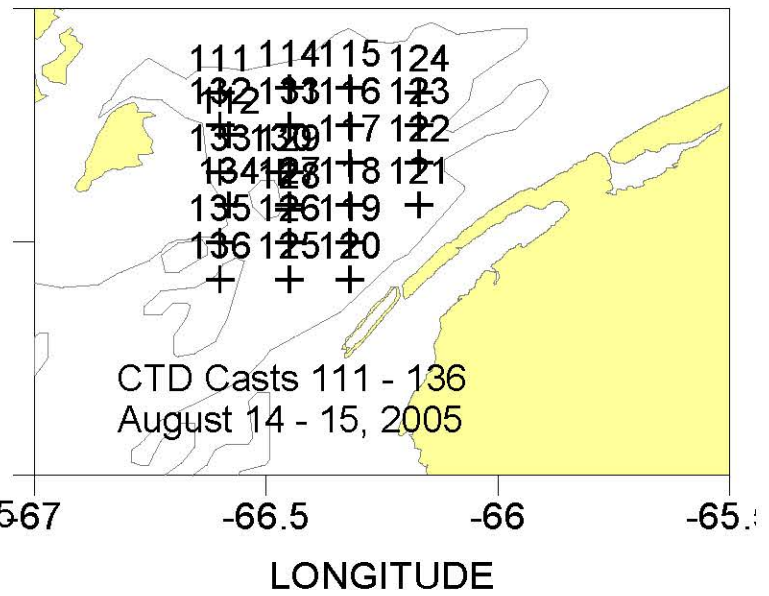
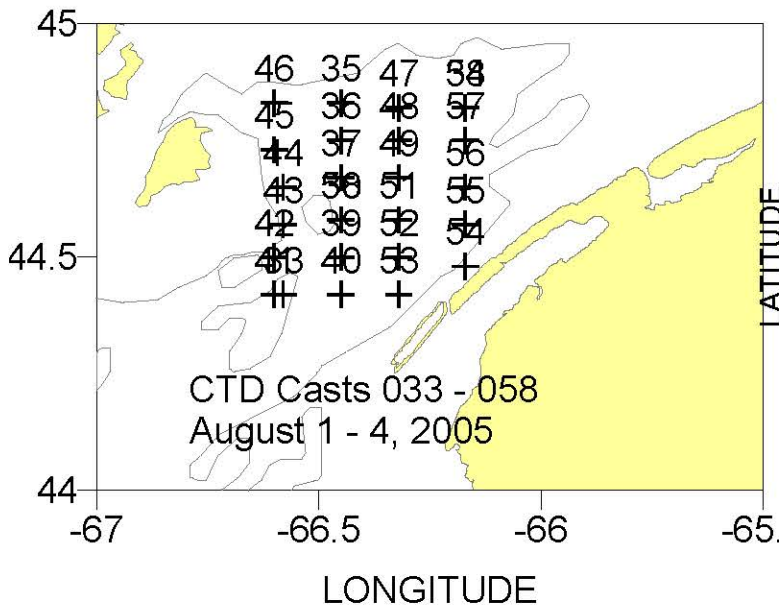


CTD Report
DEL0510 Northern Right Whale

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DATE: December 6, 2005





DEL0510 Northern Right Whale
July 29 - August 15, 2005

Cast #	Station #	Latitude	Longitude	Day	Month	Year	Time (GMT)	Depth (m)	Sfc. Temp	Sfc. Salt	Btm. Temp	Btm. Salt	Meters from Bottom
1	1	4120.0	6608.2	29	7	2005	19:31	100	19.49	33.20	13.52	35.43	1
2	2	4118.4	6606.1	30	7	2005	12:10	960	18.32	32.82	10.52	35.35	758
3	3	4121.2	6609.2	30	7	2005	12:51	650	18.69	33.04	11.60	35.46	448
4	4	4124.1	6612.3	30	7	2005	13:28	354	14.62	31.84	10.96	35.29	151
5	5	4127.0	6615.5	30	7	2005	14:15	96	13.74	31.83	9.00	34.03	4
6	6	4127.1	6610.6	30	7	2005	14:48	113	14.50	31.83	9.33	34.18	3
7	7	4127.3	6605.5	30	7	2005	15:21	129	15.03	31.86	10.10	34.81	2
8	8	4127.4	6600.6	30	7	2005	16:28	159	15.56	32.01	11.60	35.34	2
9	9	4127.9	6555.4	30	7	2005	17:07	526	21.53	34.03	11.87	35.49	323
10	10	4205.1	6557.2	30	7	2005	21:28	213	14.99	31.99	7.45	34.85	11
11	11	4248.0	6502.0	31	7	2005	10:25	100	15.70	31.42	5.69	33.00	2
12	12	4248.0	6508.7	31	7	2005	11:07	98	15.35	31.26	6.43	33.18	2
13	13	4248.0	6515.6	31	7	2005	11:49	123	15.06	31.19	6.38	33.23	3
14	14	4248.0	6522.3	31	7	2005	12:34	121	16.72	31.76	5.80	33.11	3
15	15	4247.9	6529.2	31	7	2005	13:19	121	15.69	31.80	5.57	33.05	3
16	16	4254.0	6529.2	31	7	2005	14:41	132	16.85	31.60	5.52	33.17	2
17	17	4253.9	6522.3	31	7	2005	15:19	146	16.58	31.68	5.88	33.28	2
18	18	4254.0	6515.6	31	7	2005	16:34	163	16.96	99.99	5.94	33.28	2
19	19	4254.1	6509.0	31	7	2005	17:16	157	16.42	31.67	6.75	33.37	2
20	20	4254.0	6502.1	31	7	2005	18:00	96	14.88	31.31	5.45	33.00	3
21	21	4260.0	6502.0	31	7	2005	19:15	159	16.04	31.28	5.69	33.32	3
22	22	4300.0	6508.9	31	7	2005	20:01	169	15.99	31.35	5.94	33.44	2
23	23	4300.0	6515.8	31	7	2005	20:40	165	15.92	31.39	5.58	33.22	2
24	24	4300.0	6522.4	31	7	2005	21:25	146	15.99	31.45	6.72	33.39	2
25	25	4259.9	6529.3	31	7	2005	22:01	122	15.38	31.41	5.21	33.06	2
26	26	4306.0	6502.1	1	8	2005	10:22	148	16.72	31.31	5.88	33.59	3
27	27	4306.0	6508.9	1	8	2005	11:04	149	15.88	31.34	5.68	33.30	3
28	28	4305.9	6515.7	1	8	2005	11:46	115	15.34	31.34	5.19	33.05	3
29	29	4306.1	6522.4	1	8	2005	12:22	114	15.38	31.34	5.06	33.00	4
30	30	4306.0	6529.4	1	8	2005	13:04	122	15.15	31.41	4.63	32.72	4

DEL0510 Northern Right Whale
July 29 - August 15, 2005

Cast #	Station #	Latitude	Longitude	Day	Month	Year	Time (GMT)	Depth (m)	Sfc. Temp	Sfc. Salt	Btm. Temp	Btm. Salt	Meters from Bottom
31	31	4252.6	6516.7	1	8	2005	16:16	156	17.35	31.19	5.98	33.29	6
32	32	4251.4	6527.1	1	8	2005	19:02	137	17.55	31.67	5.80	33.26	7
33	33	4425.0	6635.8	2	8	2005	12:01	207	9.67	31.58	7.54	33.80	2
34	34	4449.9	6610.7	2	8	2005	19:07	115	11.88	31.56	6.99	32.57	4
35	35	4450.0	6627.5	3	8	2005	10:38	139	10.03	31.62	7.08	33.08	3
36	36	4445.0	6627.5	3	8	2005	11:13	165	10.79	31.68	7.33	33.29	4
37	37	4440.0	6627.5	3	8	2005	11:55	194	10.18	31.82	7.43	33.52	2
38	38	4435.1	6627.5	3	8	2005	12:40	213	10.77	31.75	7.48	33.62	4
39	39	4430.0	6627.5	3	8	2005	13:25	198	10.84	31.31	7.54	33.69	3
40	40	4425.1	6627.4	3	8	2005	14:08	198	9.91	31.60	7.55	33.77	4
41	41	4425.0	6636.2	3	8	2005	15:33	209	9.95	31.66	7.52	33.82	4
42	42	4430.0	6636.0	3	8	2005	16:55	100	9.46	31.72	7.84	32.75	4
43	43	4434.8	6635.3	3	8	2005	17:49	132	11.28	31.34	7.41	33.49	4
44	44	4439.9	6635.9	3	8	2005	18:42	132	12.29	31.35	7.34	33.31	5
45	45	4444.9	6636.1	3	8	2005	19:30	130	12.24	31.46	6.95	33.07	4
46	46	4450.1	6636.1	3	8	2005	20:12	123	11.58	30.80	7.02	32.94	4
47	47	4449.9	6619.1	4	8	2005	10:25	123	12.83	31.59	7.10	32.86	4
48	48	4445.0	6619.1	4	8	2005	11:06	133	12.26	31.62	7.17	33.00	3
49	49	4440.0	6619.1	4	8	2005	11:49	132	10.53	31.69	7.40	33.25	5
50	50	4435.5	6627.3	4	8	2005	13:04	212	11.65	31.64	7.52	33.65	6
51	51	4435.1	6619.0	4	8	2005	14:22	142	11.62	31.79	7.56	33.62	3
52	52	4430.1	6619.2	4	8	2005	15:06	156	11.41	31.66	7.59	33.65	4
53	53	4425.0	6619.2	4	8	2005	16:57	150	9.69	31.96	7.60	33.63	3
54	54	4429.9	6610.8	4	8	2005	18:36	99	11.01	32.13	7.87	32.89	3
55	55	4434.9	6610.8	4	8	2005	19:22	115	12.50	31.70	7.59	32.92	4
56	56	4439.9	6610.8	4	8	2005	20:01	116	10.58	32.10	7.68	32.66	4
57	57	4445.0	6610.7	4	8	2005	20:51	112	10.83	32.02	7.45	32.74	4
58	58	4449.9	6610.7	4	8	2005	21:30	113	13.45	31.62	7.08	32.59	7
59	59	4133.0	6614.1	6	8	2005	16:25	92	15.01	31.92	8.80	32.75	4
60	60	4133.0	6607.4	6	8	2005	17:01	100	16.30	31.78	9.62	33.84	4

DEL0510 Northern Right Whale
July 29 - August 15, 2005

Cast #	Station #	Latitude	Longitude	Day	Month	Year	Time (GMT)	Depth (m)	Sfc. Temp	Sfc. Salt	Btm. Temp	Btm. Salt	Meters from Bottom
61	61	4133.0	6600.8	6	8	2005	17:47	121	16.91	31.88	11.43	35.04	4
62	62	4133.1	6554.0	6	8	2005	18:31	325	23.15	34.29	6.73	35.06	1
63	63	4131.6	6601.0	6	8	2005	20:21	129	16.86	31.96	11.35	34.86	3
64	64	4129.6	6601.9	6	8	2005	21:27	135	17.38	31.88	11.33	34.68	9
65	65	4115.0	6554.0	7	8	2005	10:25	1929	23.21	34.67	5.80	35.02	1349
66	66	4115.0	6600.7	7	8	2005	11:26	1595	23.76	34.89	5.56	35.00	1014
67	67	4115.0	6607.3	7	8	2005	12:19	1136	22.44	34.07	5.19	35.00	555
68	68	4115.0	6614.1	7	8	2005	13:06	423	21.55	33.87	6.17	35.04	1
69	69	4121.1	6614.2	7	8	2005	14:30	123	16.25	31.69	11.15	35.25	5
70	70	4121.0	6607.3	7	8	2005	15:15	225	18.67	99.99	9.78	35.30	3
71	71	4121.0	6600.8	7	8	2005	16:37	480	22.43	33.93	5.60	35.01	1
72	72	4121.1	6554.1	7	8	2005	17:28	1350	23.23	34.48	5.52	35.02	771
73	73	4127.0	6554.0	7	8	2005	19:31	915	22.35	33.81	5.04	34.99	335
74	74	4133.0	6554.0	8	8	2005	10:26	323	16.65	31.95	6.49	35.04	2
75	75	4133.0	6600.7	8	8	2005	11:13	123	16.41	31.88	8.76	33.69	3
76	76	4132.8	6607.6	8	8	2005	11:58	101	17.25	31.77	7.49	32.99	13
77	77	4132.9	6613.9	8	8	2005	12:30	92	16.23	31.82	9.10	33.50	3
78	78	4127.0	6614.0	8	8	2005	13:43	101	15.88	31.83	11.12	34.98	5
79	79	4127.0	6607.3	8	8	2005	14:21	123	16.23	31.98	10.18	34.24	4
80	80	4127.0	6600.8	8	8	2005	14:56	161	16.25	31.98	11.07	34.96	4
81	81	4133.6	6601.8	8	8	2005	17:55	111	17.69	31.83	9.76	34.23	7
82	82	4133.7	6558.9	8	8	2005	18:45	135	17.80	99.99	10.67	99.99	7
83	83	4248.0	6502.0	9	8	2005	10:23	98	17.72	31.23	5.30	32.81	4
84	84	4248.0	6508.8	9	8	2005	11:04	98	17.59	31.29	6.82	33.29	4
85	85	4248.0	6515.5	9	8	2005	11:40	122	16.88	99.99	7.23	99.99	3
86	86	4248.0	6515.6	9	8	2005	11:58	122	16.87	31.41	7.07	33.44	35
87	87	4248.1	6515.6	9	8	2005	12:07	122	16.86	31.30	7.17	33.49	3
88	88	4248.0	6522.3	9	8	2005	12:41	120	17.61	31.38	7.99	33.65	1
89	89	4248.0	6529.0	9	8	2005	13:18	121	18.14	31.68	8.88	33.82	4
90	90	4254.0	6529.3	9	8	2005	14:31	134	17.26	31.14	6.68	33.35	4

DEL0510 Northern Right Whale
July 29 - August 15, 2005

Cast #	Station #	Latitude	Longitude	Day	Month	Year	Time (GMT)	Depth (m)	Sfc. Temp	Sfc. Salt	Btm. Temp	Btm. Salt	Meters from Bottom
91	91	4254.1	6522.5	9	8	2005	15:15	148	17.70	31.15	8.58	33.80	3
92	92	4254.0	6515.6	9	8	2005	16:32	164	17.81	31.19	6.27	33.30	3
93	93	4254.0	6508.7	9	8	2005	17:17	156	16.56	31.37	6.97	33.34	4
94	94	4254.0	6501.9	9	8	2005	17:55	97	14.56	31.59	5.80	32.98	8
95	95	4259.9	6500.9	10	8	2005	10:56	142	14.81	31.73	6.16	33.29	5
96	96	4300.0	6508.6	10	8	2005	11:45	166	15.94	31.40	6.51	33.73	4
97	97	4306.0	6502.0	12	8	2005	10:19	150	16.11	31.24	6.19	33.58	4
98	98	4306.0	6509.0	12	8	2005	11:00	149	15.54	31.37	5.87	33.42	3
99	99	4306.0	6515.6	12	8	2005	11:38	113	15.87	31.56	5.20	99.99	3
100	100	4306.1	6525.5	12	8	2005	12:37	113	16.32	31.50	4.90	32.75	4
101	101	4306.0	6529.2	12	8	2005	12:55	121	16.71	31.58	5.60	33.02	4
102	102	4300.0	6529.2	12	8	2005	14:15	121	17.43	99.99	5.96	99.99	5
103	103	4300.0	6522.5	12	8	2005	14:55	145	16.53	31.46	5.80	33.11	4
104	104	4300.0	6515.6	12	8	2005	15:34	166	16.69	31.46	6.26	33.57	4
105	105	4300.0	6508.9	12	8	2005	16:22	169	14.94	31.69	6.42	33.68	3
106	106	4300.1	6502.1	12	8	2005	17:08	160	15.03	99.99	6.87	99.99	40
107	107	4300.1	6502.1	12	8	2005	17:22	160	15.86	31.41	6.86	33.32	25
108	108	4254.0	6502.0	12	8	2005	18:43	97	17.06	99.99	5.80	99.99	4
109	109	4254.0	6508.8	12	8	2005	19:22	157	17.95	31.28	6.85	33.32	5
110	110	4254.0	6515.6	12	8	2005	20:07	164	18.07	31.39	6.12	33.39	6
111	111	4449.9	6636.0	14	8	2005	10:19	126	10.07	31.50	7.33	32.94	5
112	112	4444.9	6635.9	14	8	2005	10:55	135	10.95	31.46	7.43	33.22	4
113	113	4445.0	6627.6	14	8	2005	12:28	166	13.15	31.50	7.62	33.42	4
114	114	4450.0	6627.6	14	8	2005	13:10	140	12.73	31.60	7.44	33.26	3
115	115	4450.0	6619.3	14	8	2005	14:30	128	12.38	31.58	7.51	33.05	4
116	116	4445.0	6619.2	14	8	2005	15:07	132	11.98	31.66	7.58	33.18	4
117	117	4440.0	6619.0	14	8	2005	15:43	132	12.56	31.65	7.67	33.37	3
118	118	4435.0	6619.2	14	8	2005	16:23	137	12.52	31.63	7.71	33.38	4
119	119	4430.1	6619.2	14	8	2005	17:04	153	10.77	31.69	7.71	33.42	4
120	120	4425.0	6619.1	14	8	2005	17:45	143	11.21	31.58	8.05	33.35	4

DEL0510 Northern Right Whale
July 29 - August 15, 2005

Cast #	Station #	Latitude	Longitude	Day	Month	Year	Time (GMT)	Depth (m)	Sfc. Temp	Sfc. Salt	Btm. Temp	Btm. Salt	Meters from Bottom
121	121	4435.1	6610.5	14	8	2005	19:28	117	11.17	31.88	7.98	33.11	4
122	122	4440.0	6610.6	14	8	2005	20:00	122	11.42	31.72	7.84	33.20	3
123	123	4445.0	6610.6	14	8	2005	20:36	116	11.58	31.95	7.79	32.99	5
124	124	4449.8	6610.7	14	8	2005	21:08	120	11.51	31.80	7.64	33.08	4
125	125	4425.1	6627.7	15	8	2005	10:16	199	10.38	32.38	7.53	33.83	4
126	126	4430.1	6627.6	15	8	2005	10:55	197	10.17	31.61	7.51	33.76	3
127	127	4435.0	6627.6	15	8	2005	11:38	213	11.17	31.42	7.51	33.70	3
128	128	4434.9	6627.6	15	8	2005	13:04	212	10.93	31.63	7.51	33.72	2
129	129	4439.9	6627.5	15	8	2005	14:01	195	12.82	31.73	7.54	33.61	4
130	130	4439.7	6628.8	15	8	2005	14:51	197	11.90	31.68	7.53	33.56	8
131	131	4445.0	6627.6	15	8	2005	16:04	164	12.88	31.75	7.63	33.41	5
132	132	4445.0	6636.0	15	8	2005	17:34	130	12.44	31.65	7.39	33.11	5
133	133	4439.9	6636.0	15	8	2005	18:13	131	11.13	31.63	7.44	33.30	4
134	134	4435.0	6635.9	15	8	2005	18:49	93	10.66	31.60	8.34	32.55	4
135	135	4430.0	6636.0	15	8	2005	19:32	86	10.25	31.77	8.18	32.87	12
136	136	4425.1	6636.0	15	8	2005	20:13	206	9.95	32.08	7.47	33.74	4

Areal average surface and bottom temperature/salinity and temperature/salinity anomalies for the July/August Right Whale Cruise DEL0510

CRUISE	CD	SURFACE						BOTTOM					
		#obs	T/S	Anomaly	SDV1	SDV2	Flag	#obs	T/S	Anomaly	SDV1	SDV2	Flag
								Georges Bank					
DEL0510	216	25	17.19	2.53	0.20	1.29	1	5	10.01	1.76	0.50	2.87	1
DEL0510	216	24	32.27	-0.73	0.15	0.32	1	5	33.91	0.73	0.32	1.36	1

"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 include 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 dur to poor station coverage. The areal averages listed were derived from a simple average of the observations within the region.

