January 11, 2008

Memo To: Jon Hare
Mike Jech

From: Cristina Bascuñán (x2243)

Re: HydroAcoustic Survey - DEL0710

CTD data from the HydroAcoustic Survey have been processed and are now available. There were 78 casts done, including 15 for calibrations.

Please note there is no data for cast 003.

Hydrographic data for this cruise may be found in the following location:

- /ftp/pub/hydro/del0710.dat (NODC file)
- octemps

Please call if you have any questions.

DEL0710
HydroAcoustic Survey
8 September - 26 October, 2007

Cast No.	Sta No.	Latitude	Longitude	Day	Month	Year	Time	Btm Depth	Sfc Temp	Sfc Salt	Btm Temp	Btm Salt	Meters from Btm
1	5	4202.1	7028.7	8	9	2007	12:30	40	18.1	31.63	7.0	32.06	9
2	7	4208.9	6802.1	9	9	2007	12:25	232	17.0	32.18	7.4	34.79	9
4	16	4217.4	6600.9	14	10	2007	23:55	248	16.0	33.21	8.2	34.83	16
5	17	4217.8	6614.1	15	10	2007	1:25	229	13.3	32.44	8.2	34.85	9
6	18	4210.8	6614.7	15	10	2007	2:50	202	13.5	32.36	8.5	34.81	6
7	20	4200.4	6614.5	15	10	2007	6:49	79	13.5	32.34	7.5	33.16	4
8	21	4200.1	6627.4	15	10	2007	8:22	81	12.5	32.51	8.8	32.85	6
9	22	4217.8	6627.7	15	10	2007	10:58	271	12.5	32.53	7.4	34.86	15
10	24	4217.9	6641.3	15	10	2007	14:58	284	11.9	32.56	7.4	34.87	4
11	25	4200.4	6641.3	15	10	2007	17:15	70	13.4	32.45	11.0	32.58	4
12	26	4200.3	6654.7	15	10	2007	18:37	68	13.6	32.47	13.6	32.47	5
13	27	4212.6	6654.6	15	10	2007	20:16	214	13.6	32.45	7.5	34.78	6
14	29	4217.7	6654.6	15	10	2007	23:25	292	11.3	32.52	7.4	34.86	8
15	30	4218.0	6707.8	16	10	2007	0:55	285	14.1	32.33	7.3	34.87	7
16	31	4212.1	6707.3	16	10	2007	1:55	189	14.2	32.44	7.3	34.29	8
17	33	4203.1	6708.2	16	10	2007	5:39	44	14.1	32.46	14.1	32.46	4
18	34	4157.6	6721.6	16	10	2007	7:16	50	15.0	32.44	15.0	32.44	4
19	35	4206.9	6721.4	16	10	2007	8:43	81	14.2	32.39	6.1	33.15	6
20	37	4208.9	6721.4	16	10	2007	11:13	157	14.1	32.34	6.9	34.00	6
21	39	4259.7	6721.3	16	10	2007	19:49	240	12.0	32.68	7.6	34.73	7
22	40	4259.9	6734.3	16	10	2007	21:28	193	11.8	32.72	7.6	34.55	5
23	42	4208.0	6735.0	17	10	2007	5:45	176	14.4	32.22	6.1	33.57	5
24	44	4154.1	6734.9	17	10	2007	10:01	33	14.8	32.44	14.8	32.45	4
25	45	4147.9	6748.1	17	10	2007	11:22	33	14.2	32.42	14.2	32.42	6

Cast No.	Sta No.	Latitude	Longitude	Day	Month	Year	Time	Btm Depth	Sfc Temp	Sfc Salt	Btm Temp	Btm Salt	Meters from Btm
26	46	4203.2	6747.7	17	10	2007	13:10	187	14.1	32.26	6.7	34.08	5
27	52	4238.9	6748.2	18	10	2007	9:09	184	13.1	32.49	7.5	34.53	5
28	55	4300.0	6748.3	18	10	2007	16:16	187	13.0	32.49	7.3	34.37	7
29	56	4300.0	6801.8	18	10	2007	17:38	172	12.9	32.43	6.7	34.01	2
30	58	4240.4	6801.7	18	10	2007	22:46	191	13.4	32.46	7.3	34.52	3
31	60	4218.4	6801.6	19	10	2007	2:58	175	14.5	32.19	7.2	34.34	7
32	62	4153.2	6801.4	19	10	2007	7:49	102	14.5	32.45	7.5	32.82	5
33	64	4141.0	6801.4	19	10	2007	11:43	32	15.3	32.46	15.2	32.46	6
34	65	4140.7	6814.9	19	10	2007	12:58	25	14.4	32.43	13.7	32.47	6
35	66	4150.3	6814.7	19	10	2007	14:08	173	14.3	32.25	6.3	33.93	6
36	69	4244.0	6957.1	20	10	2007	5:30	196	13.3	32.27	6.5	33.95	1
37	70	4243.9	7032.8	20	10	2007	9:01	86	13.7	31.90	6.0	32.49	8
38	71	4247.9	7035.7	20	10	2007	9:46	92	13.9	31.85	5.2	32.52	5
39	72	4247.9	6956.9	20	10	2007	13:06	231	13.1	32.24	6.6	34.06	5
40	73	4251.9	6956.9	20	10	2007	13:49	198	13.1	32.19	6.4	33.88	3
41	74	4252.0	7032.1	20	10	2007	16:43	91	14.2	32.04	5.4	31.04	1
42	75	4256.0	7030.5	20	10	2007	17:21	90	13.9	32.02	7.0	32.77	5
43	77	4256.1	7020.6	20	10	2007	18:52	146	13.6	31.89	5.4	32.96	9
44	79	4256.0	6957.2	20	10	2007	22:51	224	12.6	32.30	6.5	32.99	1
45	80	4259.9	6957.0	20	10	2007	23:30	218	12.1	32.41	6.4	33.94	6
46	81	4300.0	7026.2	21	10	2007	2:13	94	13.9	32.00	6.7	32.87	4
47	82	4303.9	7024.6	21	10	2007	2:55	95	13.4	31.85	6.9	32.88	2
48	83	4303.9	6957.1	21	10	2007	5:00	191	11.7	32.44	6.1	33.68	6
49	85	4307.7	6957.0	21	10	2007	7:54	160	11.7	32.54	5.8	33.46	3
50	86	4308.0	7020.7	21	10	2007	9:56	111	13.2	31.93	6.5	32.93	6
51	87	4311.9	7018.9	21	10	2007	10:43	101	13.4	31.91	7.1	32.92	5
52	88	4312.0	6956.9	21	10	2007	12:33	149	11.8	32.57	5.7	33.27	4
53	89	4210.1	6814.6	21	10	2007	23:57	192	14.0	32.21	7.4	34.61	9
54	90	4300.0	6815.1	22	10	2007	5:37	188	12.3	32.59	6.6	33.82	6
55	91	4300.1	6828.6	22	10	2007	6:58	181	12.2	32.59	6.5	33.91	3
56	93	4233.4	6828.5	22	10	2007	12:28	217	13.0	32.56	7.2	34.40	4
57	95	4202.5	6828.1	22	10	2007	18:46	170	14.7	32.12	5.9	33.66	2
58	98	4141.9	6828.3	23	10	2007	0:13	189	14.7	32.09	6.7	34.23	5
59	101	4120.0	6828.5	23	10	2007	6:46	65	14.4	32.20	10.4	32.47	5
60	102	4108.5	6841.8	23	10	2007	8:34	64	14.7	32.09	11.6	32.40	6

Cast No.	Sta No.	Latitude	Longitude	Day	Month	Year	Time	Btm Depth	Sfc Temp	Sfc Salt	Btm Temp	Btm Salt	Meters from Btm
61	104	4146.9	6838.6	23	10	2007	14:40	185	15.1	32.11	5.9	33.63	5
62	105	4219.7	6842.1	23	10	2007	20:58	200	14.6	32.22	6.0	33.72	6
63	106	4220.1	6855.0	23	10	2007	22:32	219	14.5	32.21	6.6	34.10	9
64	108	4137.0	6855.0	24	10	2007	12:10	114	14.8	32.11	5.5	33.18	5
65	110	4146.0	6854.9	24	10	2007	15:52	143	14.8	32.07	5.5	33.24	4
66	112	4100.9	6855.3	24	10	2007	20:28	65	14.5	32.46	14.3	32.46	4
67	114	4103.8	6908.3	24	10	2007	22:25	72	12.3	32.23	7.5	32.71	5
68	115	4113.8	6909.0	24	10	2007	23:27	95	14.2	32.06	6.5	32.87	3
69	116	4138.1	6908.9	25	10	2007	3:52	171	14.5	32.12	5.7	33.45	9
70	118	4154.6	6908.8	25	10	2007	8:01	210	14.2	32.17	6.0	33.60	3
71	120	4220.1	6908.8	25	10	2007	12:55	237	13.7	32.28	6.7	34.22	6
72	121	4220.1	6922.1	25	10	2007	14:11	228	13.8	32.25	6.7	34.19	5
73	122	4211.3	6921.6	25	10	2007	15:22	197	13.5	32.29	6.5	34.01	6
74	124	4130.2	6922.1	26	10	2007	0:13	80	13.4	32.11	7.1	32.76	5
75	125	4137.9	6935.5	26	10	2007	1:36	76	14.0	32.17	7.1	32.82	4
76	126	4153.6	6936.5	26	10	2007	3:25	202	13.6	32.18	6.2	33.72	2
77	127	4153.6	6948.8	26	10	2007	4:28	85	13.2	32.06	6.5	32.89	7
78	128	4135.0	6949.0	26	10	2007	6:33	20	12.9	32.14	12.6	32.16	7

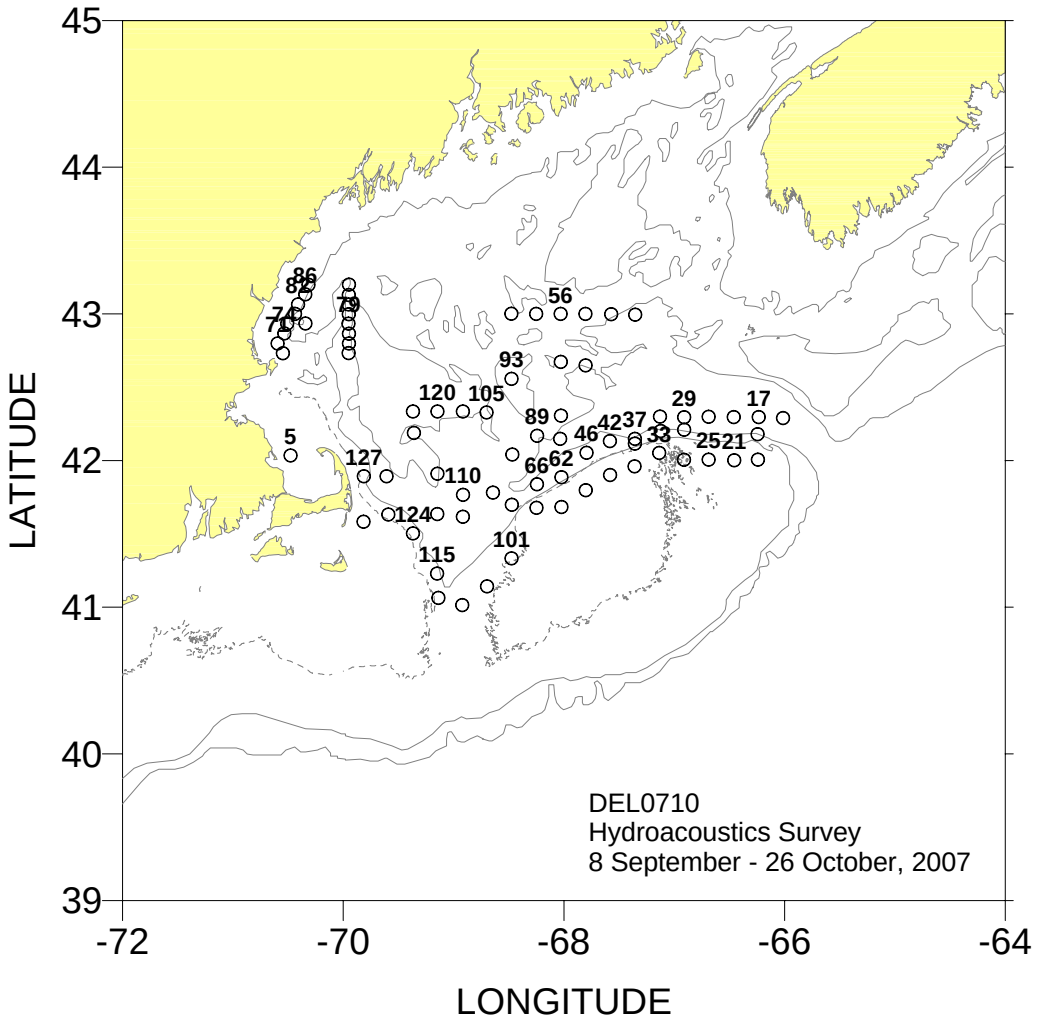
Areal average surface and bottom temperature/salinity and temperature/salinity anomalies for the HydroAcoustic Survey DEL0710.

		SURFACE						BOTTOM						
CRUISE	CD	#obs	T/S	Anomaly	SDV1	SDV2	Flag	#obs	T/S	Anomaly	SDV1	SDV2	Flag	Purpose
							GB							
DEL0710	291	14	14.04	0.18	0.26	0.70	1	14	12.26	-0.02	0.26	1.99	1	0
DEL0710	291	14	32.39	-0.20	0.15	0.17	1	14	32.56	-0.11	0.14	0.17	1	0
							GOM West							
DEL0710	294	41	13.68	1.43	0.17	0.86	1	41	6.66	-0.2	0.15	1.45	1	0
DEL0710	294	41	32.24	-0.2	0.11	0.2	1	41	33.61	-0.03	0.08	0.27	1	0
							GOM East							
DEL0710	289	17	13.35	-0.04	0.25	1.7	1	17	7.35	-0.77	0.23	2.77	1	0
DEL0710	289	17	32.5	-0.05	0.16	0.38	1	17	34.48	-0.1	0.12	0.51	1	0

"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 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.



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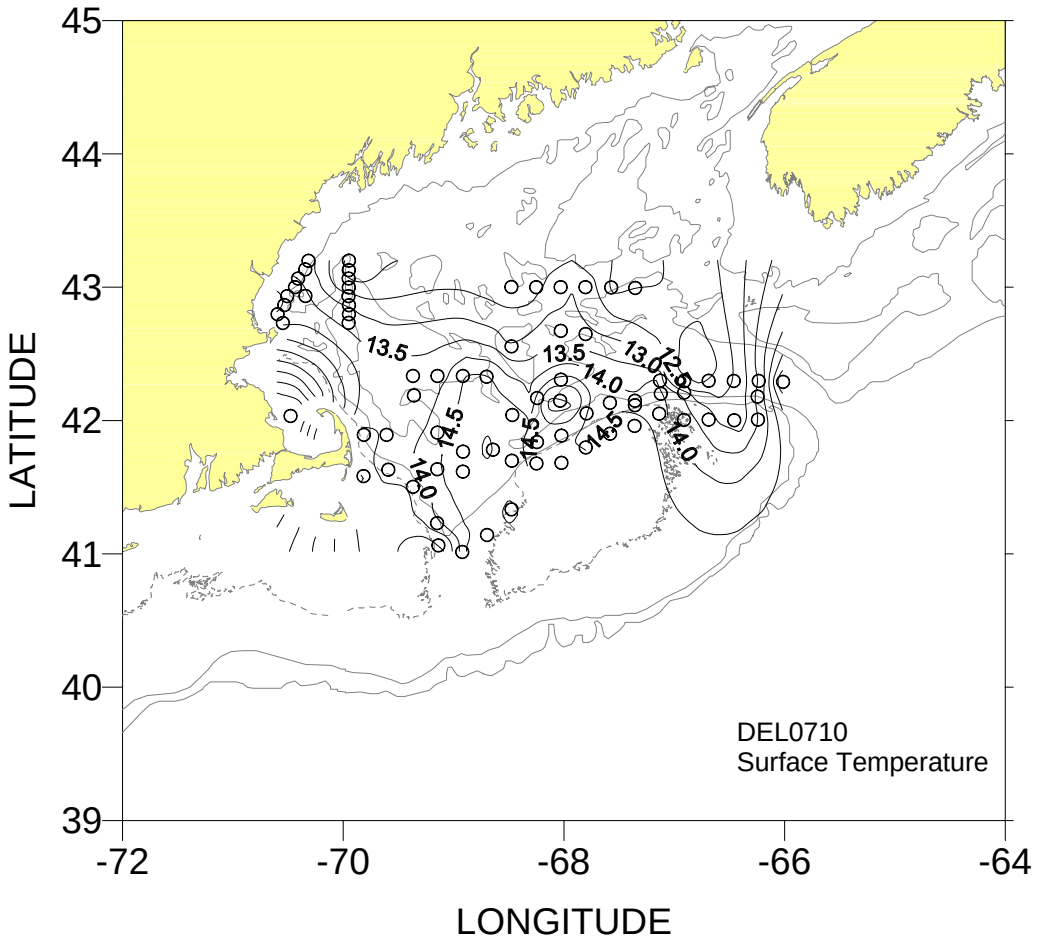
DEL0710
Hydroacoustics Survey
8 September - 26 October, 2007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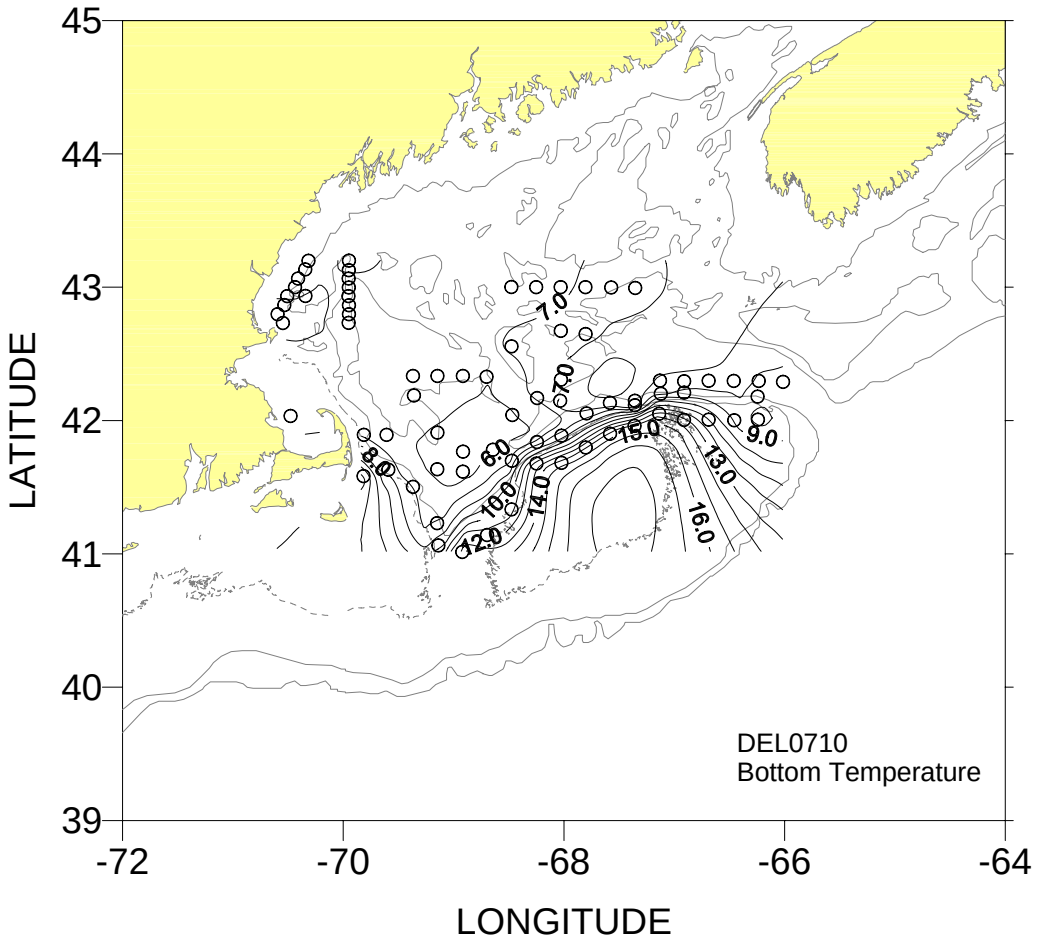
DEL0710
Surface Temperature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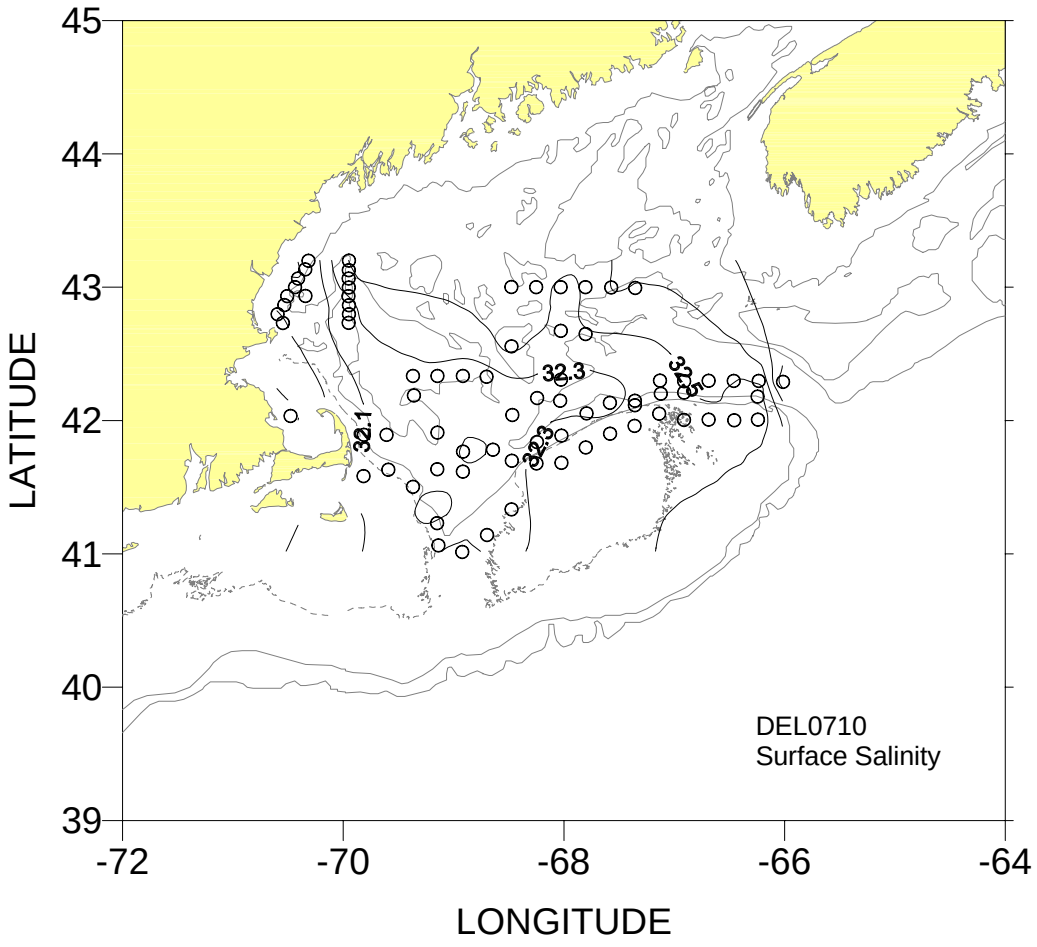
DEL0710
Bottom Temperature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LATITUDE
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LONGITUDE
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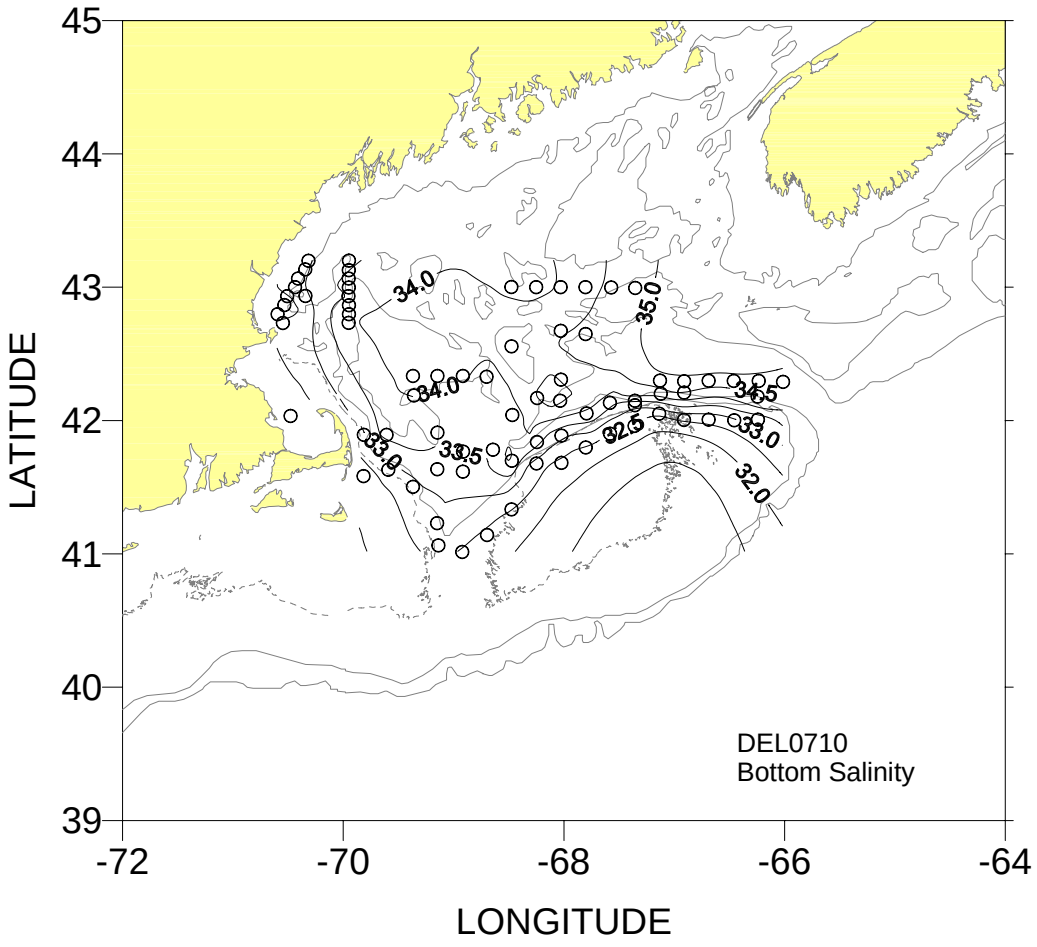
DEL0710
Surface Salinity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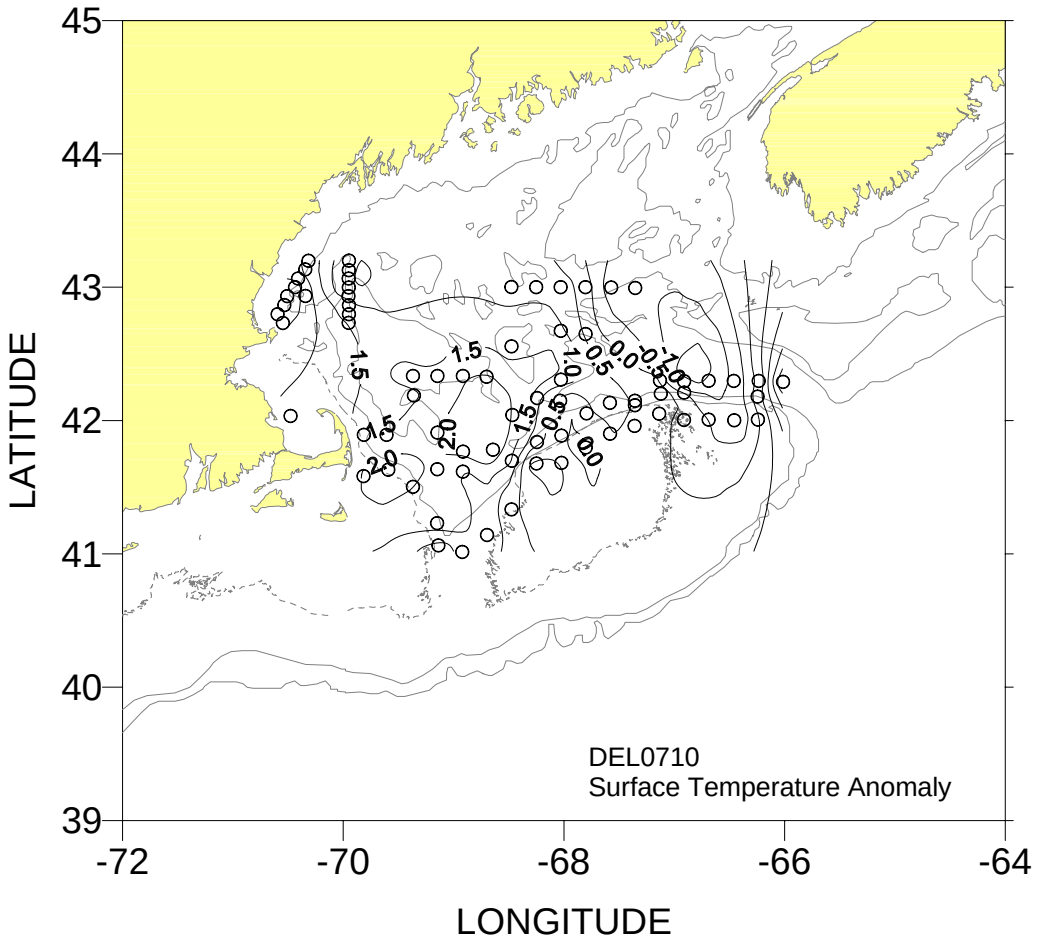
DEL0710
Bottom Salinity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DEL0710
Surface Temperature Anomaly
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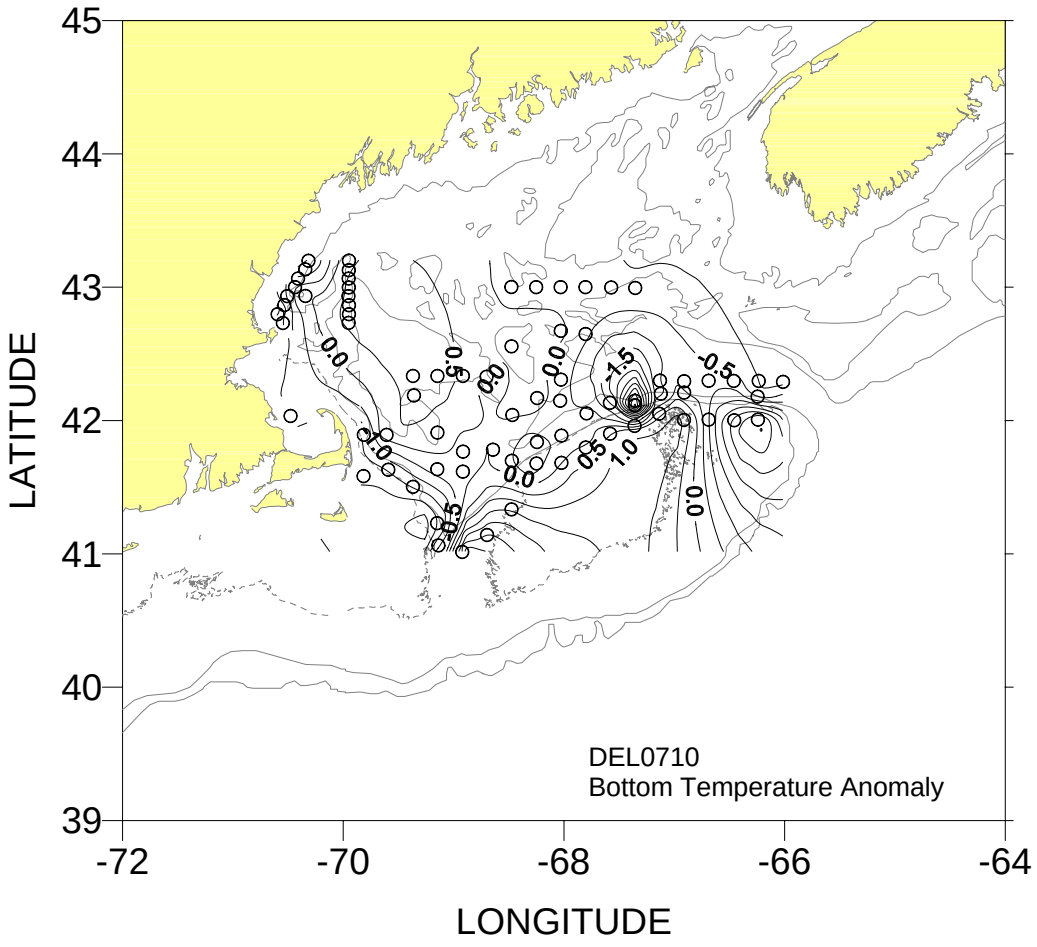
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LONGITUDE
DEL0710
Bottom Temperature Anomaly
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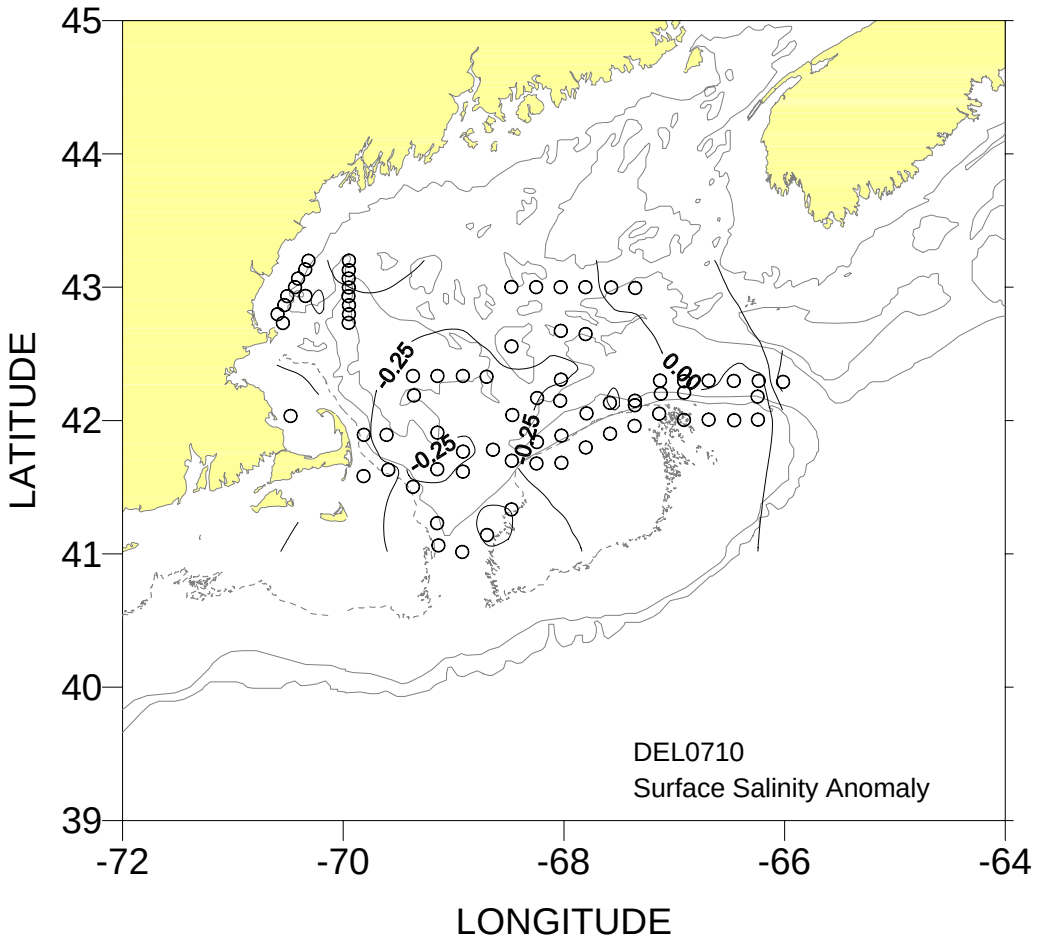
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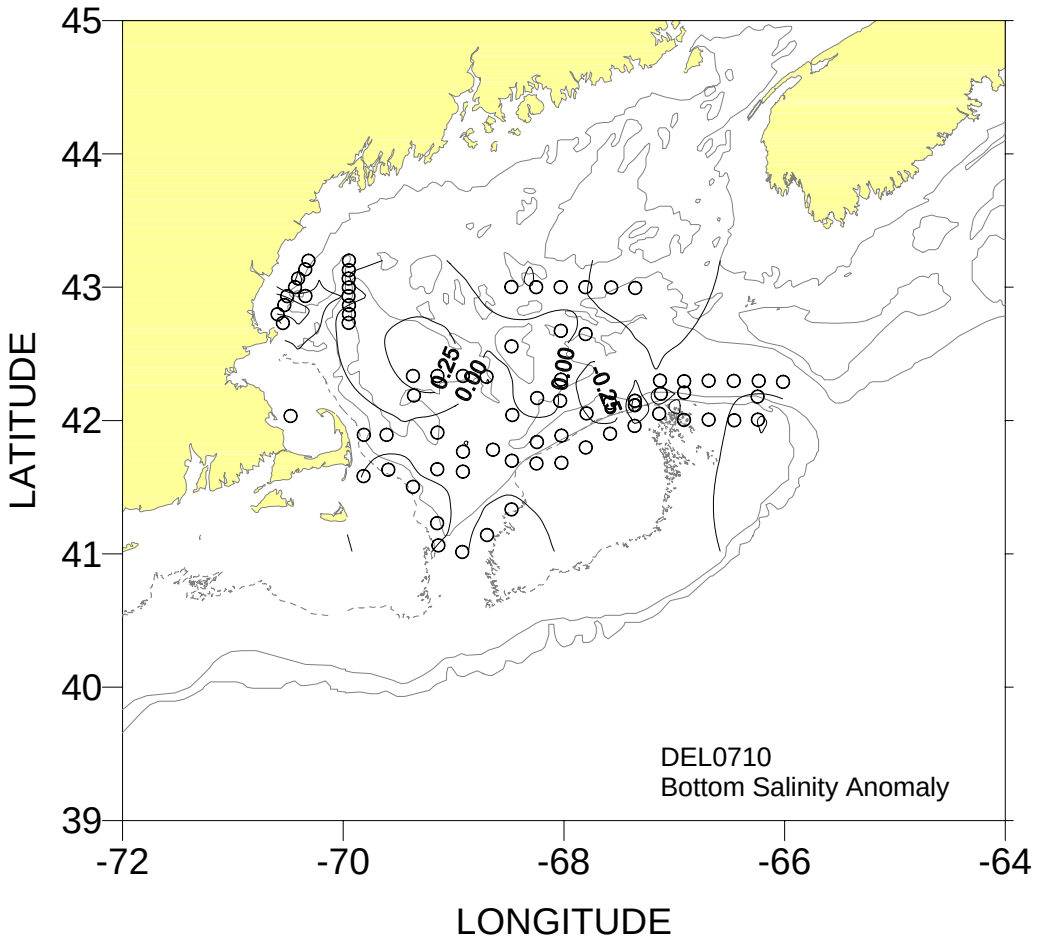
DEL0710
Surface Salinity Anomaly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DEL0710
Bottom Salinity Anomaly