Northeast Fisheries Science Center
Woods Hole Laboratory
Woods Hole, Ma 02543

October 7, 2005

MEMORANDUM FOR: David Mountain
Jerry Prezioso

FROM: Cristina Bascuñán (ext. 2243)

SUBJECT: ALB0505 – ECOMON Survey

CTD data from the Ecomon survey have been processed and are now available. There were 165 casts done, including 27 for calibrations. Please note there is no data for casts 8 and 39.

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

- whsun2: /ftp/pub/hydro/alb0502.dat (NODC file)
- Oracle

Please call if you have any questions.

Areal average surface and bottom temp / salt and anomalies for the ECOMON Survey ALB0505.

		SURFACE					BOTTOM				
CRUISE	CD	#obs	T / S	Anomaly	SDV1	SDV2	#obs	T / S	Anomaly	SDV1	SDV2
Gulf of Maine East											
ALB0505	155	17	7.26	-1.39	0.22	0.6	12	6.41	-0.85	0.28	1.21
ALB0505	155	17	31.63	-0.72	0.16	0.4	12	33.56	-0.41	0.14	0.58
Gulf of Maine West											
ALB0505	156	27	8.89	-1.7	0.19	0.68	21	5.92	0.09	0.19	0.96
ALB0505	156	27	31.37	-0.71	0.12	0.63	21	32.92	-0.34	0.11	0.5
Georges Bank											
ALB0505	153	32	8.68	-0.7	0.19	2.09	26	7.17	-0.66	0.22	1.52
ALB0505	153	32	32.32	-0.51	0.11	0.66	26	32.51	-0.64	0.13	0.61
Mid Atlantic Bight North											
ALB0505	146	34	10.72	-4.27	0.23	2.3	33	9.35	-0.08	0.24	1.91*
ALB0505	146	34	31.48	-0.63	0.17	0.83	33	31.59	-1.58	0.15	0.57*
Mid Atlantic Bight South											
ALB0505	149	26	10.29	-1.55	0.25	2.6	24	8.42	1.1	0.28	1.82
ALB0505	149	26	31.83	-0.71	0.17	1.09	24	32.42	-0.75	0.17	0.09

(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 included in each average; "T /S": the areal average temp / salt anomaly; "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 wa derived.

(*) A true areal average could not be calculated due to poor station coverage. The average values listed were derived from a simple average of the observations within the region.

ALB0505
ECOMON Survey
24 May - 8 June, 2005

Cast #	Sta #	Lat	Lon	Day	Month	Year	Time	Btm Depth	Sfc Temp	Sfc Salt	Btm Temp	Btm Salt	Metres from Btm
1	1	3938.5	7322.3	24	5	5	10:36	35	11.8	30.56	6.2	31.71	4
2	1	3938.7	7322.6	24	5	5	11:36	35	11.6	30.53	6.2	31.71	4
3	2	3926.3	7358.6	24	5	5	14:23	24	10.7	31.04	10.4	31.06	5
4	2	3926.2	7358.4	24	5	5	14:36	24	12.2	30.89	10.4	31.07	4
5	3	3907.1	7354.7	24	5	5	16:36	33	11.4	31.32	8.9	31.73	5
6	3	3906.9	7354.5	24	5	5	16:47	37	11.6	31.30	7.3	31.85	5
7	4	3854.1	7345.2	24	5	5	18:30	44	9.7	31.71	6.8	32.00	5
9	6	3853.8	7412.8	24	5	5	21:00	41	10.9	31.26	8.0	31.79	5
10	7	3844.0	7458.5	25	5	5	1:42	20	13.0	29.64	13.0	29.63	6
11	8	3826.5	7454.5	25	5	5	3:47	13	12.7	30.28	12.7	30.29	6
12	9	3751.2	7456.6	25	5	5	8:06	26	10.5	31.72	10.6	31.70	4
13	10	3743.9	7510.8	25	5	5	9:41	22	12.6	30.81	12.6	30.80	7
14	11	3731.3	7512.5	25	5	5	11:11	29	11.2	31.67	11.3	31.64	6
15	12	3728.6	7528.5	25	5	5	12:48	18	13.5	30.33	13.5	30.34	6
16	13	3703.9	7548.1	25	5	5	15:48	11	14.5	30.59	14.5	30.59	6
17	14	3621.2	7546.5	25	5	5	19:47	15	15.4	26.66	15.1	27.78	6
18	15	3621.3	7528.6	25	5	5	21:23	26	11.8	31.52	11.8	31.52	5
19	15	3621.2	7528.6	25	5	5	21:30	27	11.8	31.51	11.8	31.51	5
20	16	3611.2	7528.6	25	5	5	22:42	25	12.3	31.27	12.1	31.37	5
21	17	3546.2	7502.4	26	5	5	2:00	47	10.1	32.31	10.1	32.31	5
22	18	3540.9	7456.8	26	5	5	2:54	53	9.5	32.36	9.4	32.34	4
23	19	3638.7	7514.8	26	5	5	9:30	28	11.1	31.87	11.1	31.87	4
24	19	3638.7	7514.8	26	5	5	9:41	28	11.1	31.86	11.1	31.87	5
25	20	3701.2	7502.9	26	5	5	12:36	45	9.6	32.09	9.6	32.11	5
26	21	3730.7	7434.6	26	5	5	16:36	65	8.8	32.26	6.7	32.29	5
27	21	3730.7	7434.5	26	5	5	16:47	65	8.8	32.28	6.7	32.29	5
28	22	3738.4	7413.6	26	5	5	19:00	280	9.5	32.68	11.5	35.31	4
29	22	3738.2	7413.8	26	5	5	19:23	275	9.5	32.68	11.5	35.16	73
30	23	3738.9	7418.9	26	5	5	20:17	102	8.1	32.45	6.9	33.16	4
31	24	3751.4	7434.9	26	5	5	22:17	52	10.2	31.87	9.0	31.97	5

Cast #	Sta #	Lat	Lon	Day	Month	Year	Time	Btm Depth	Sfc Temp	Sfc Salt	Btm Temp	Btm Salt	Metres from Btm
32	25	3810.8	7428.8	27	5	5	0:36	41	9.8	31.84	9.7	31.85	5
33	26	3841.0	7346.9	27	5	5	5:11	53	8.9	31.97	6.9	31.99	4
34	26	3841.0	7347.0	27	5	5	5:24	53	8.9	31.95	7.0	31.99	5
35	27	3840.8	7323.3	27	5	5	7:30	75	8.5	32.13	5.5	32.34	5
36	28	3841.2	7311.0	27	5	5	8:48	123	7.5	32.18	11.1	35.27	5
37	29	3901.2	7249.0	27	5	5	11:53	117	9.1	33.28	10.6	34.89	5
38	30	3948.5	7238.8	27	5	5	16:53	57	9.8	31.68	4.7	32.16	4
40	31	3950.9	7230.9	27	5	5	18:00	66	9.6	32.09	5.4	32.28	4
41	32	3958.1	7239.2	27	5	5	19:23	57	10.4	32.21	5.4	32.16	4
42	33	3958.6	7256.9	27	5	5	20:53	51	9.7	32.08	5.0	32.04	3
43	34	4011.1	7325.1	27	5	5	23:30	37	10.2	30.68	8.5	31.06	6
44	35	4008.9	7356.3	28	5	5	2:12	19	13.9	28.07	12.6	29.09	5
45	36	4031.2	7312.7	28	5	5	6:11	23	11.6	29.94	9.9	30.57	4
46	36	4031.3	7312.8	28	5	5	6:24	23	11.8	30.02	10.0	30.47	6
47	37	4028.5	7303.4	28	5	5	7:30	28	11.1	29.99	8.5	31.70	5
48	38	4024.0	7239.1	28	5	5	9:41	46	9.0	31.96	8.2	32.00	5
49	39	4033.7	7206.8	28	5	5	12:41	53	9.6	31.79	7.8	31.96	6
50	40	4021.3	7206.7	28	5	5	14:06	62	9.0	32.00	6.9	32.30	6
51	41	4006.5	7201.1	28	5	5	15:48	75	9.6	32.27	7.1	33.09	3
52	41	4006.4	7201.3	28	5	5	16:00	75	8.7	32.18	7.0	32.99	4
53	42	3951.2	7153.1	28	5	5	17:47	144	8.8	32.15	11.3	35.05	5
54	43	4020.9	7116.9	28	5	5	22:30	80	9.4	32.31	10.4	34.06	4
55	44	4023.5	7102.9	28	5	5	23:53	85	9.6	32.15	11.3	34.20	5
56	45	4028.6	7028.9	29	5	5	2:42	71	8.4	31.53	12.5	34.52	5
57	46	3959.1	7041.1	29	5	5	5:48	284	17.1	35.28	9.4	35.22	4
58	46	3959.3	7041.4	29	5	5	6:30	276	17.3	35.28	12.5	35.59	76
59	47	4008.8	7022.8	29	5	5	8:41	118	18.1	35.43	12.2	35.06	6
60	48	4026.2	6942.8	29	5	5	12:30	71	8.0	31.84	6.6	32.05	6
61	49	4028.8	6838.9	29	5	5	13:11	69	8.2	31.72	6.5	32.01	6
62	50	4006.6	6921.0	29	5	5	16:06	94	17.7	35.12	12.6	34.80	4
63	50	4006.7	6921.2	29	5	5	16:17	94	17.5	35.03	13.2	34.97	4
66	51	4011.5	6822.7	29	5	5	23:00	191	18.9	35.47	11.7	35.49	7
67	52	4016.2	6826.8	30	5	5	0:06	144	16.8	34.46	10.9	35.40	6
68	53	4033.7	6814.7	30	5	5	2:30	94	8.2	32.13	7.7	33.22	4
69	54	4033.6	6807.1	30	5	5	3:24	98	8.3	32.06	8.0	33.49	5

Cast #	Sta #	Lat	Lon	Day	Month	Year	Time	Btm Depth	Sfc Temp	Sfc Salt	Btm Temp	Btm Salt	Metres from Btm
70	55	4036.1	6803.2	30	5	5	4:05	90	8.4	32.11	6.0	32.29	32
71	55	4036.2	6803.2	30	5	5	4:18	90	8.4	32.15	7.2	32.93	5
72	56	4046.0	6824.6	30	5	5	6:11	53	8.0	32.11	8.1	32.11	5
73	57	4040.5	6933.5	30	5	5	11:30	48	7.0	31.40	6.9	31.43	5
74	58	4043.7	7002.5	30	5	5	13:36	39	8.4	30.87	7.7	31.14	5
75	59	4058.9	7014.8	30	5	5	15:23	32	9.3	30.83	8.9	30.84	6
76	60	4043.6	7040.8	30	5	5	19:53	60	9.5	31.54	6.9	32.08	4
77	60	4043.8	7040.7	30	5	5	20:06	60	10.0	31.66	6.9	32.09	5
78	61	4058.9	7107.1	30	5	5	23:23	48	11.0	31.25	7.2	31.90	6
79	62	4108.7	7102.7	31	5	5	0:41	34	11.1	30.94	8.4	31.30	5
80	63	4103.4	7142.7	31	5	5	3:54	37	10.8	29.81	8.8	31.64	6
81	63	4103.3	7142.9	31	5	5	4:05	36	11.0	29.62	8.8	31.64	5
82	64	4118.5	7123.3	31	5	5	7:00	36	12.3	31.01	9.8	31.41	6
83	65	4133.4	6945.0	1	6	5	22:36	27	8.4	30.39	8.4	30.40	8
84	65	4133.3	6944.8	1	6	5	22:42	27	8.5	30.36	8.4	30.39	5
85	66	4141.1	6952.6	2	6	5	0:06	23	9.5	30.01	8.9	30.14	6
86	67	4153.8	6938.8	2	6	5	2:05	180	7.9	31.93	4.2	32.46	4
87	68	4116.3	6840.9	2	6	5	7:35	71	7.6	31.76	6.0	32.01	35
88	68	4116.3	6841.1	2	6	5	7:48	72	7.4	31.84	6.0	32.01	6
89	69	4058.8	6806.6	2	6	5	11:36	41	8.4	32.18	8.4	32.18	6
90	70	4054.0	6738.8	2	6	5	13:41	69	9.4	32.01	6.2	32.26	5
91	71	4106.2	6750.7	2	6	5	15:23	49	9.1	32.17	8.4	32.18	4
92	72	4123.9	6801.0	2	6	5	17:42	38	8.6	32.20	8.5	32.20	14
93	72	4123.8	6801.2	2	6	5	17:47	32	8.8	32.20	8.6	32.20	7
94	73	4140.2	6822.1	2	6	5	20:30	49	7.5	32.12	6.4	32.22	6
95	74	4143.8	6818.7	2	6	5	21:12	71	7.4	32.12	6.0	32.20	5
96	75	4151.2	6820.8	2	6	5	22:17	205	8.8	31.98	7.9	34.79	6
97	76	4203.7	6757.1	3	6	5	1:06	192	8.5	32.02	6.4	33.77	6
98	77	4221.2	6802.7	3	6	5	3:17	182	9.0	32.16	7.2	34.19	7
99	78	4226.0	6756.4	3	6	5	4:30	190	8.1	32.11	4.5	32.62	121
100	78	4226.1	6756.3	3	6	5	4:41	191	8.0	32.11	8.1	34.82	6
101	79	4221.1	6718.1	3	6	5	7:41	305	8.5	32.12	7.9	34.94	3
102	79	4221.1	6718.0	3	6	5	8:00	307	8.5	32.12	7.6	34.37	106
103	80	4225.0	6700.0	3	6	5	10:00	360	7.0	32.05	8.0	34.94	5
104	81	4203.8	6712.9	3	6	5	12:53	48	6.4	32.26	6.4	32.28	6

Cast #	Sta #	Lat	Lon	Day	Month	Year	Time	Btm Depth	Sfc Temp	Sfc Salt	Btm Temp	Btm Salt	Metres from Btm
105	82	4201.1	6728.8	3	6	5	14:30	47	6.6	32.16	6.4	32.18	6
106	83	4143.5	6659.0	3	6	5	17:17	61	7.5	32.21	7.1	32.32	28
107	83	4143.2	6659.2	3	6	5	17:23	58	7.4	32.30	7.1	32.32	5
108	84	4138.6	6718.5	3	6	5	18:53	49	8.0	32.26	7.8	32.26	5
109	85	4138.2	6728.5	3	6	5	19:36	49	7.8	32.25	7.7	32.26	5
110	86	4124.1	6723.3	3	6	5	21:36	32	8.6	32.23	8.3	32.24	4
111	87	4109.0	6720.9	3	6	5	23:23	57	8.8	32.14	7.4	32.25	5
112	88	4108.6	6710.8	4	6	5	0:24	63	10.0	32.22	7.1	32.25	6
113	89	4103.6	6712.6	4	6	5	1:06	66	9.6	32.05	6.6	32.24	6
114	90	4053.5	6652.8	4	6	5	3:00	91	7.7	32.25	5.6	32.50	5
115	91	4106.2	6631.0	4	6	5	5:24	91	7.1	32.27	5.6	32.57	49
116	91	4105.9	6631.0	4	6	5	5:35	89	8.1	32.26	5.7	32.94	6
117	92	4126.2	6634.8	4	6	5	8:06	86	7.1	32.27	5.9	32.48	5
118	93	4136.3	6628.9	4	6	5	9:30	84	6.1	32.48	6.1	32.48	5
119	94	4149.1	6554.9	4	6	5	12:41	114	7.0	32.19	4.9	32.74	6
120	95	4156.4	6553.0	4	6	5	13:36	126	8.2	32.16	5.3	32.94	6
121	96	4156.4	6600.7	4	6	5	14:23	93	7.9	32.18	5.4	32.50	6
122	97	4201.4	6552.9	4	6	5	15:23	201	9.0	32.09	5.9	34.97	6
123	98	4213.1	6546.5	4	6	5	17:06	223	8.5	32.25	8.0	35.09	6
124	99	4225.9	6530.9	4	6	5	19:23	100	7.5	31.49	4.2	32.62	6
125	100	4243.7	6612.6	4	6	5	22:42	63	6.3	30.87	3.6	31.60	7
126	101	4248.7	6608.8	4	6	5	23:30	57	6.8	30.48	4.2	31.66	6
127	102	4303.6	6624.8	5	6	5	1:23	107	5.0	30.96	5.1	32.51	7
128	103	4326.2	6648.9	5	6	5	4:30	205	6.3	31.25	4.6	31.50	154
129	103	4326.0	6649.0	5	6	5	4:35	207	6.1	31.27	6.8	33.82	8
130	104	4328.7	6730.8	5	6	5	7:54	218	7.4	31.63	6.7	33.85	3
131	104	4328.8	6730.7	5	6	5	8:11	222	8.1	31.71	6.7	33.86	23
132	105	4324.0	6741.9	5	6	5	9:41	245	8.5	31.96	6.8	33.88	5
133	106	4313.7	6800.8	5	6	5	11:53	212	8.8	32.04	6.5	33.67	10
134	107	4318.8	6832.3	5	6	5	15:00	190	7.8	31.81	6.5	33.63	5
135	108	4318.8	6842.3	5	6	5	16:17	131	7.9	31.50	4.9	32.28	89
136	108	4318.7	6842.2	5	6	5	16:23	138	7.8	31.54	5.7	33.21	5
137	109	4330.1	6810.6	5	6	5	19:12	181	8.8	31.70	6.6	33.70	5
138	110	4341.2	6741.0	5	6	5	22:00	236	7.7	31.70	7.0	33.97	4
139	110	4341.2	6740.9	5	6	5	22:17	236	8.3	31.57	6.8	33.89	35

Cast #	Sta #	Lat	Lon	Day	Month	Year	Time	Btm Depth	Sfc Temp	Sfc Salt	Btm Temp	Btm Salt	Metres from Btm
140	111	4356.2	6722.9	6	6	5	0:30	218	8.5	31.80	6.9	33.95	18
141	111	4356.7	6721.7	6	6	5	0:53	214	8.4	31.81	6.9	33.94	3
142	112	4413.6	6706.6	6	6	5	3:05	122	6.8	31.51	4.8	32.25	6
143	113	4439.6	6703.1	6	6	5	6:35	79	5.9	31.12	5.4	31.18	43
144	113	4439.4	6703.1	6	6	5	6:41	75	5.9	31.13	5.4	31.17	4
145	114	4415.4	6742.2	6	6	5	10:06	87	5.5	31.67	5.1	31.82	6
146	115	4356.8	6823.9	6	6	5	13:36	98	7.4	30.64	4.9	31.70	7
147	116	4342.0	6858.1	6	6	5	16:53	64	7.7	30.68	5.2	31.26	21
148	116	4341.9	6858.3	6	6	5	17:00	78	7.6	30.68	5.2	31.54	14
149	117	4340.5	6950.9	6	6	5	20:53	30	9.2	28.75	5.9	30.99	6
150	118	4327.8	6921.1	6	6	5	23:53	157	8.2	31.44	4.6	32.47	7
151	119	4318.7	6953.0	7	6	5	2:35	169	11.4	28.97	5.7	33.47	6
152	120	4308.9	7014.5	7	6	5	5:05	142	9.9	30.10	5.7	31.65	92
153	120	4308.8	7014.5	7	6	5	5:05	145	10.2	30.02	4.6	32.02	6
154	121	4303.7	6941.2	7	6	5	8:06	117	8.8	31.77	4.5	32.24	4
155	122	4253.3	6902.8	7	6	5	11:36	185	8.1	31.86	5.9	33.36	6
156	123	4235.0	6854.2	7	6	5	13:48	172	9.1	32.07	6.6	33.84	7
157	124	4218.8	6845.0	7	6	5	16:06	205	9.4	32.04	4.8	32.30	148
158	124	4218.9	6845.2	7	6	5	16:12	207	9.3	32.05	5.6	33.34	6
159	125	4213.8	6910.1	7	6	5	18:30	204	9.7	32.02	6.0	33.64	5
160	126	4211.3	6924.5	7	6	5	20:00	200	9.5	31.70	5.8	33.47	5
161	127	4223.9	6936.7	7	6	5	22:00	239	10.5	31.96	6.6	33.97	6
162	127	4224.2	6937.0	7	6	5	22:30	240	10.6	31.99	6.3	33.83	41
163	128	4230.2	6940.0	7	6	5	23:30	244	10.0	32.02	6.7	34.00	6
164	129	4223.7	7010.9	8	6	5	2:17	76	11.5	29.81	5.4	31.92	5
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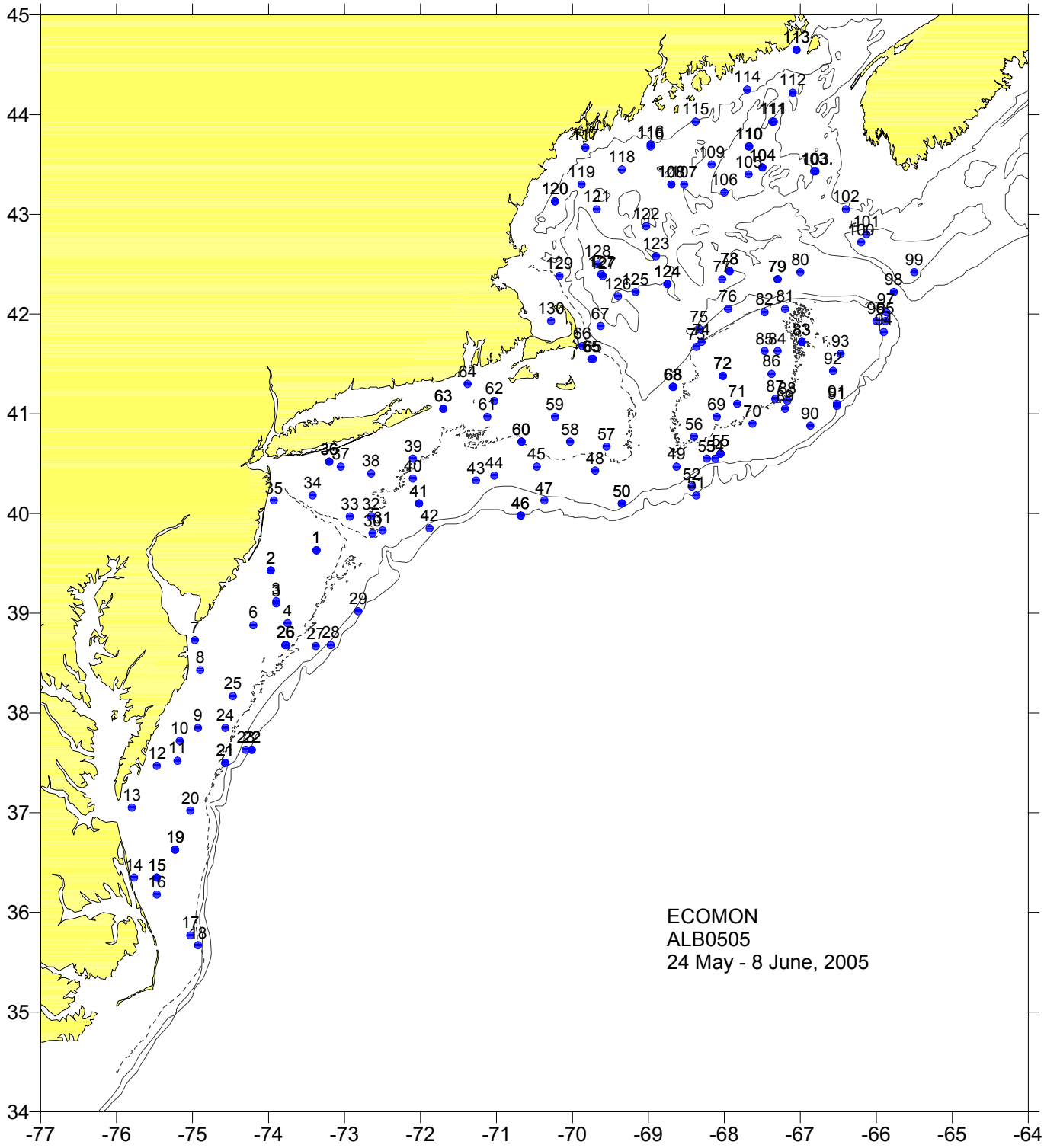
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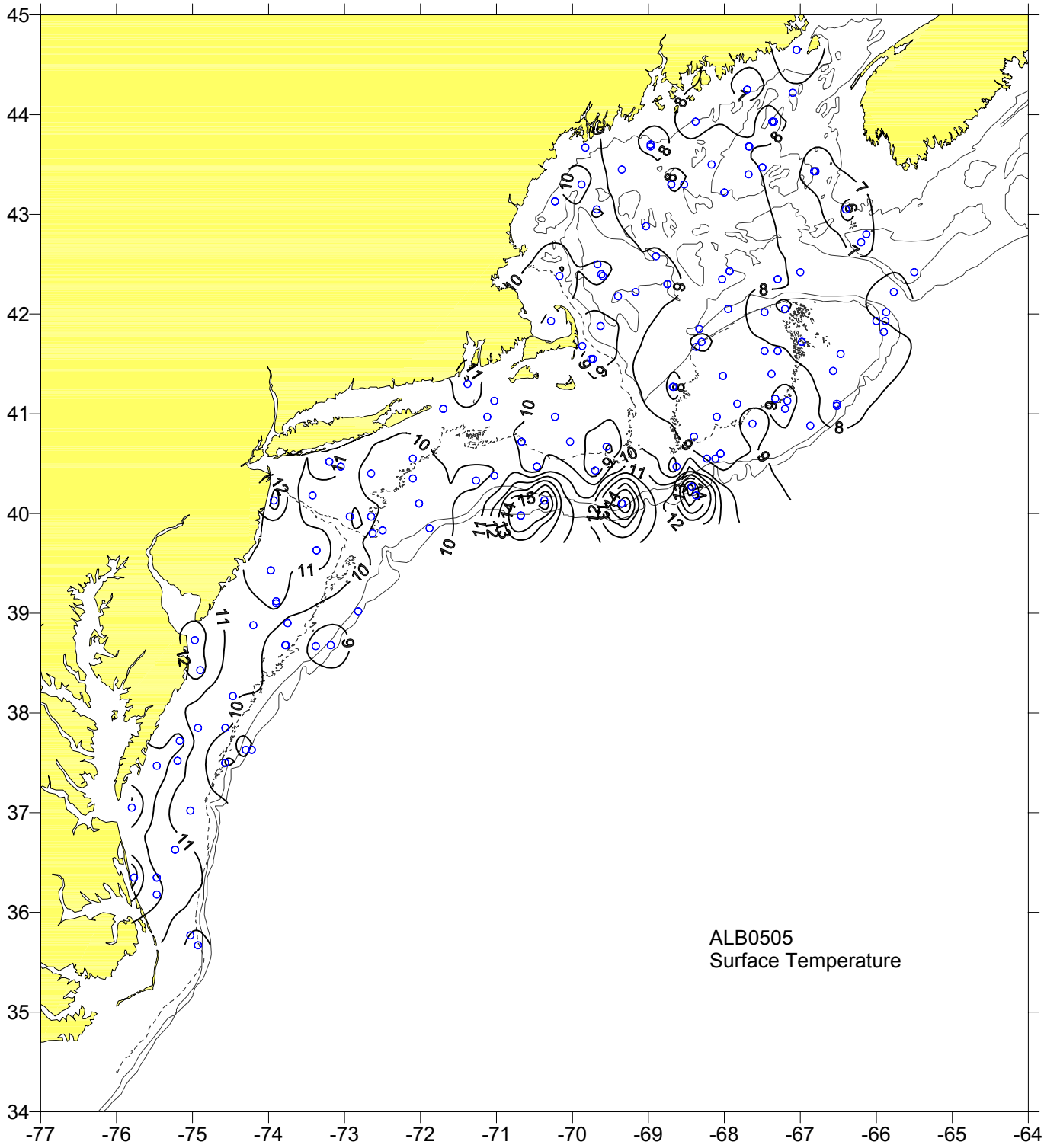
24 May - 8 June, 2005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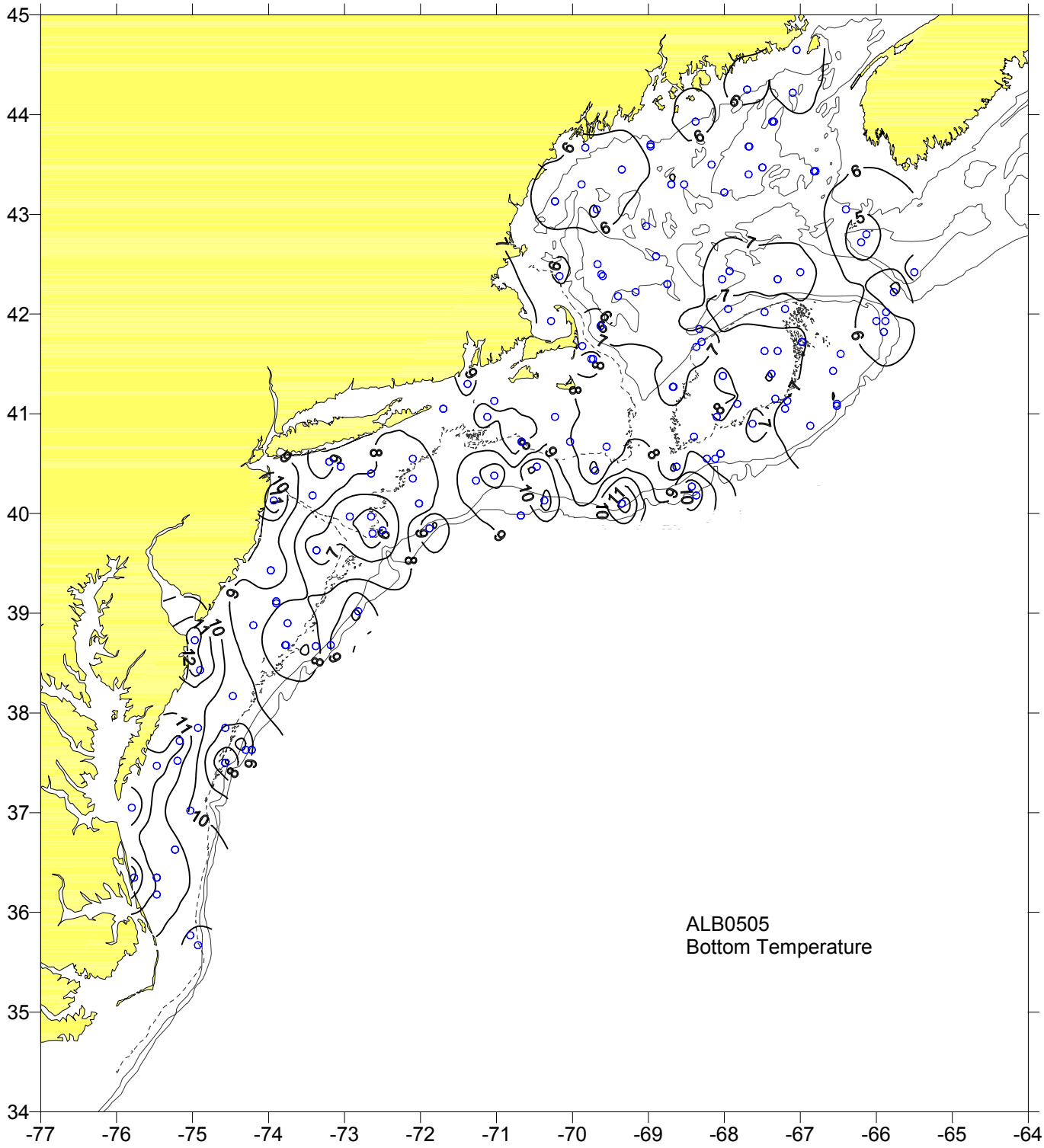
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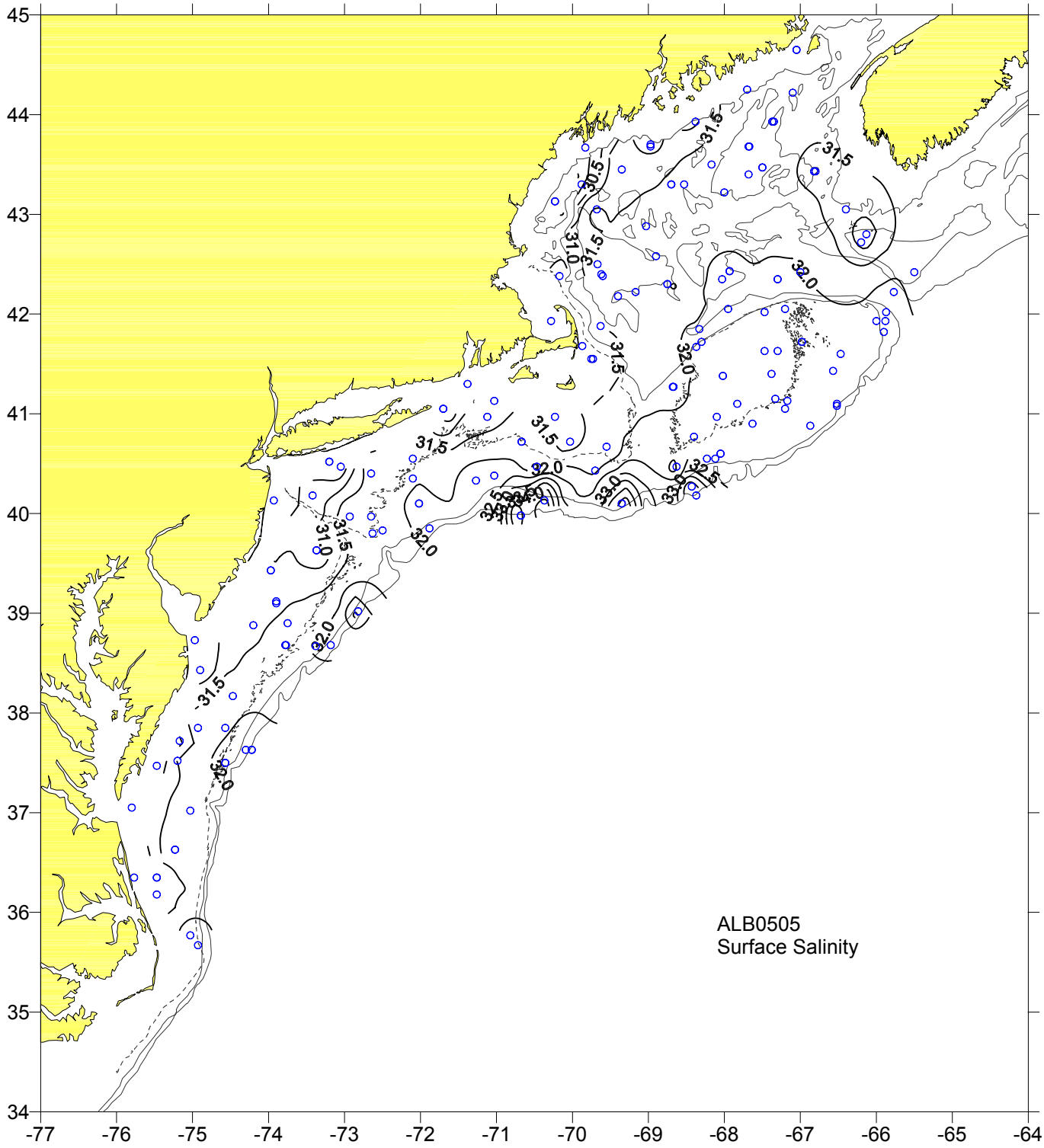
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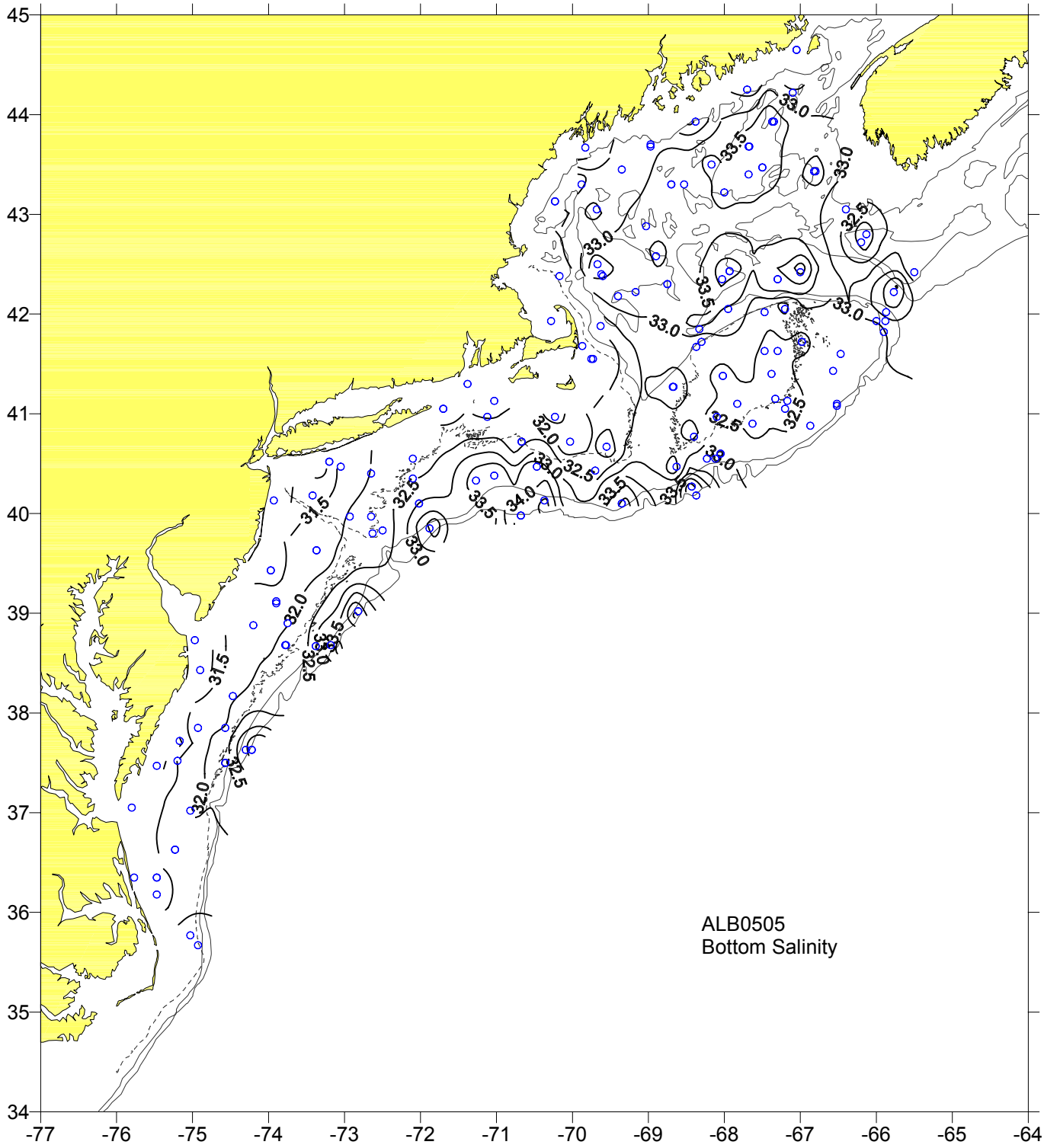
Surface Salinity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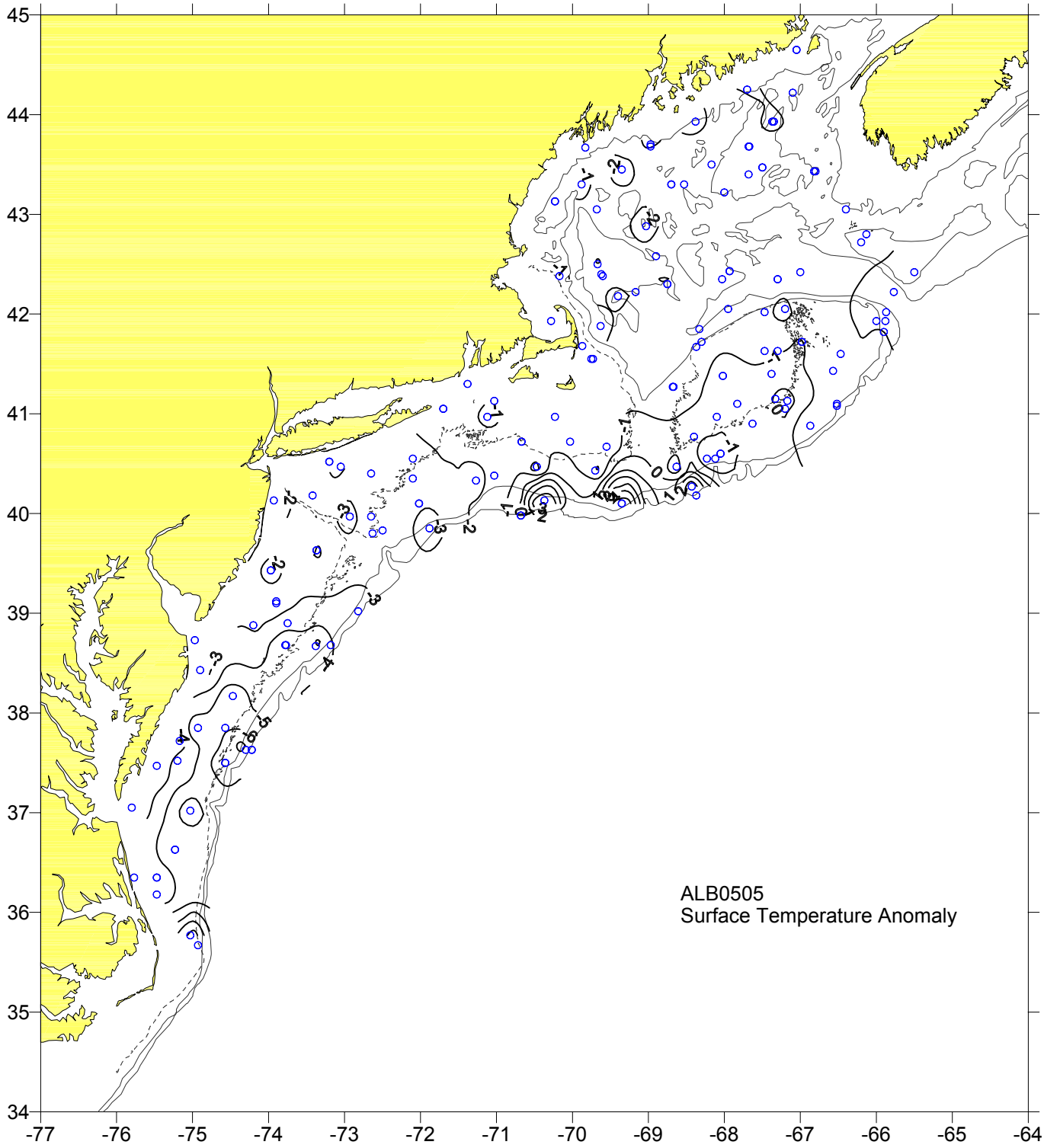
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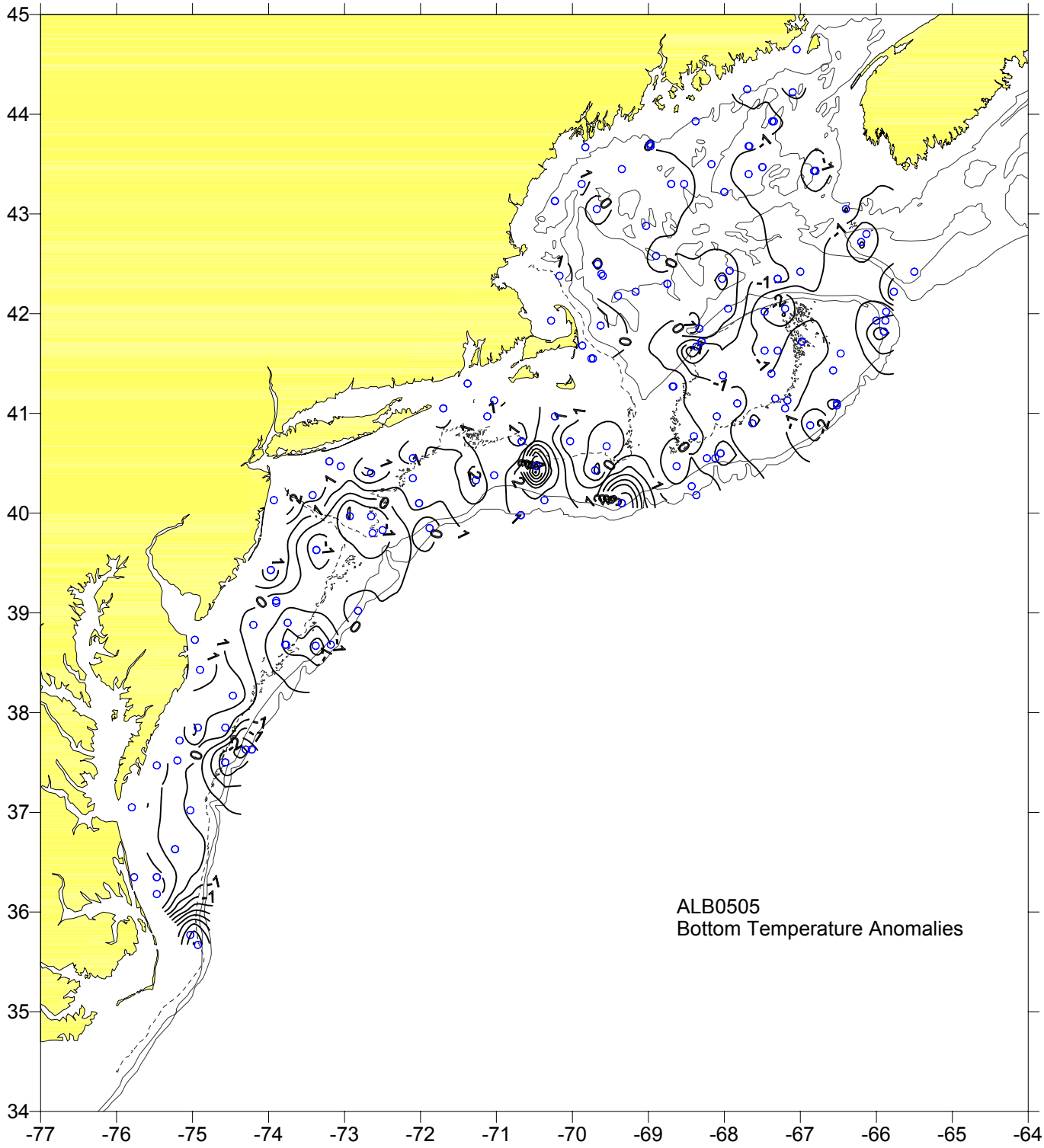
Surface Temperature Anomaly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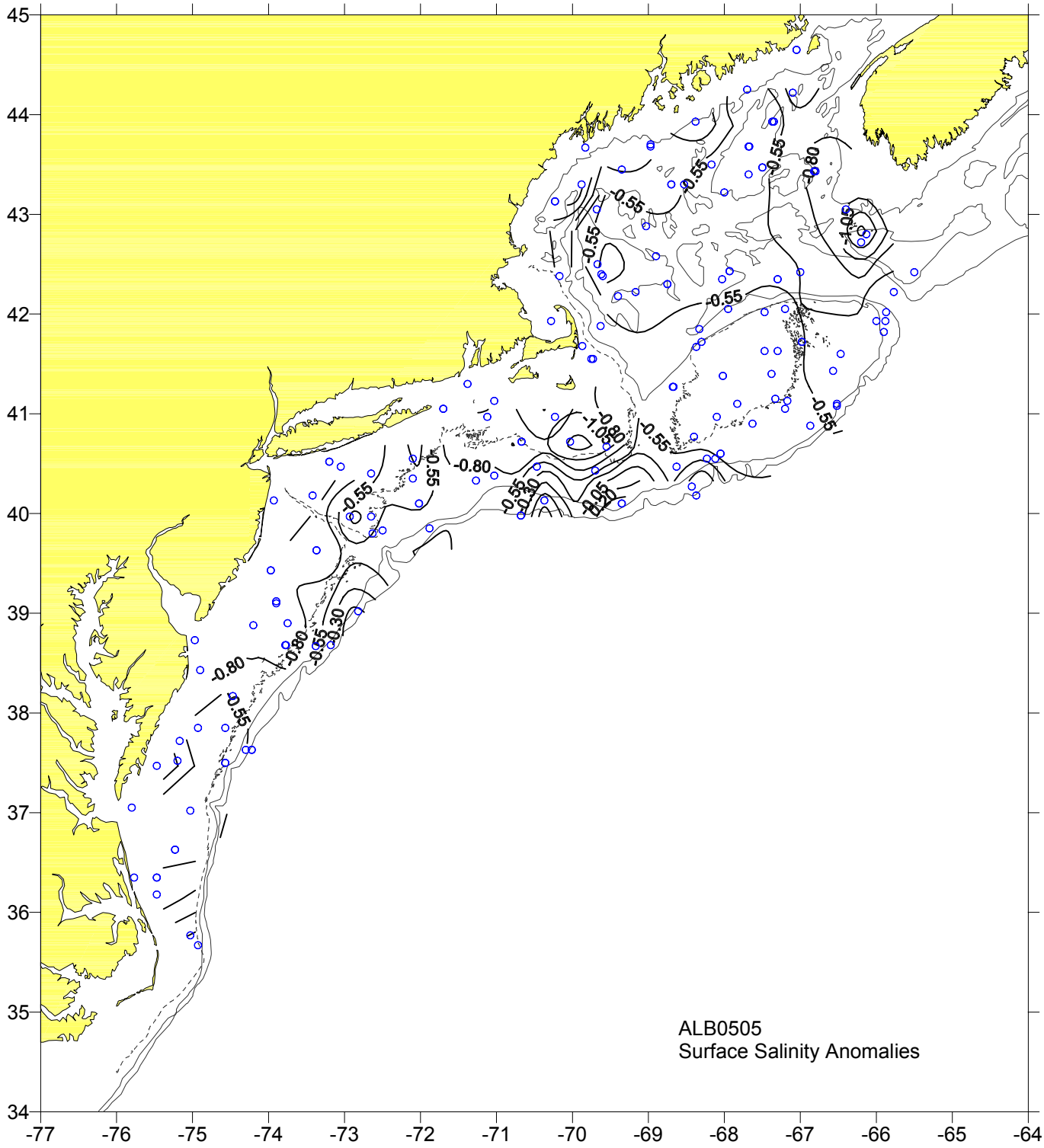
ALB0505
Bottom Temperature Anomalies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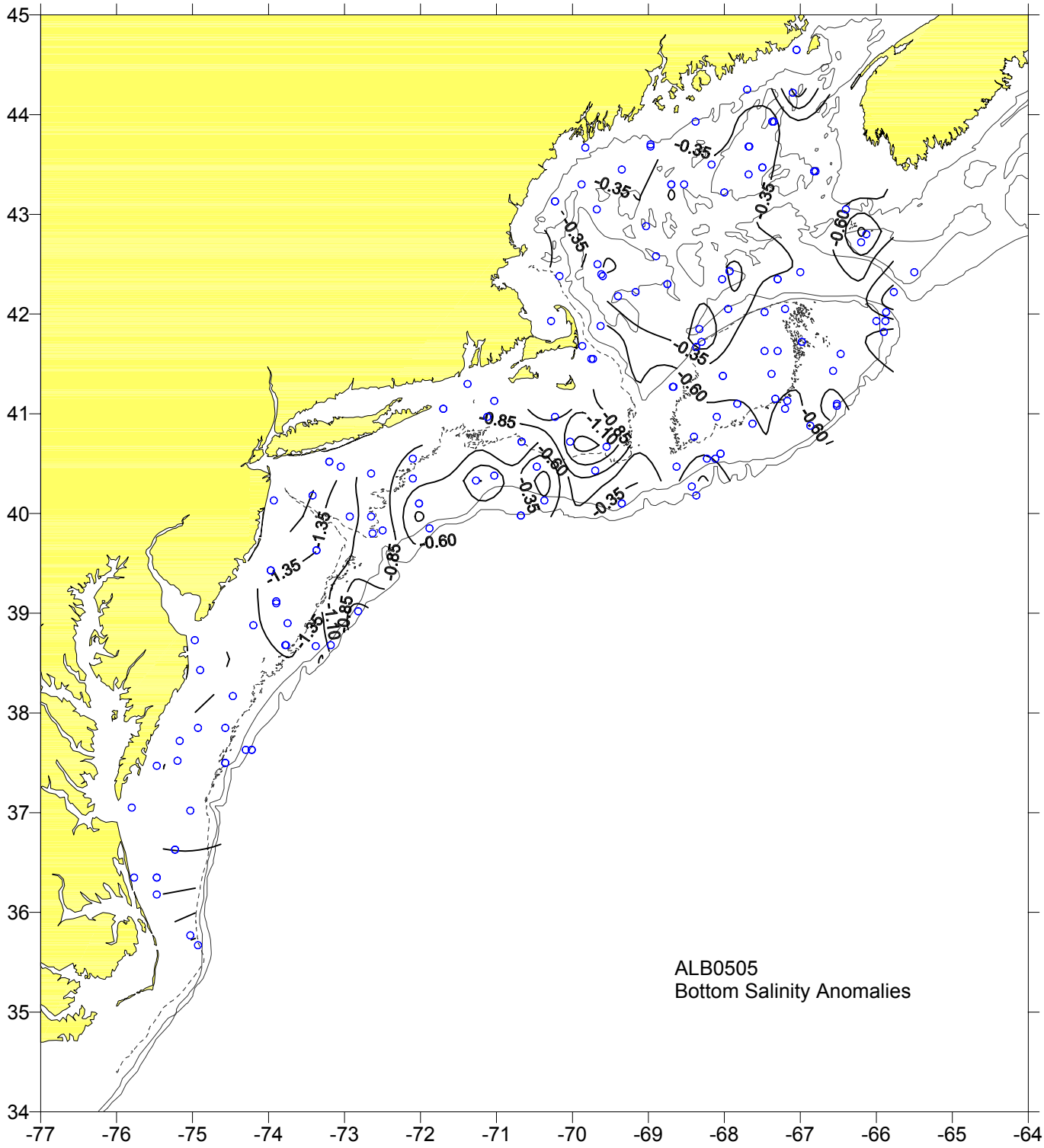
Surface Salinity Anomalies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-1.35
ALB0505
Bottom Salinity Anomalies