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

April 15, 2005

MEMORANDUM FOR: David Mountain
Linda Despres

FROM: Cristina Bascuñán (ext. 2243)

SUBJECT: ALB0502 – Winter Bottom Trawl

CTD data from the Winter Bottom Trawl survey have been processed and are now available. There were 107 casts done, including 21 for calibrations. Please note there is no cast 1, 2, 29, 37, and 38.

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

- whsun2: /ftp/pub/hydro/alb0506.dat (NODC file)

Please call if you have any questions.

Areal average surface and bottom temp / salt and anomalies for the Winter Bottom Trawl ALB0502.

		SURFACE					BOTTOM				
CRUISE	CD	#obs	T / S	Anomaly	SDV1	SDV2	#obs	T / S	Anomaly	SDV1	SDV2
Georges Bank											
ALB0502	55	7	4.52	-0.6	0.43	2.63*	6	4.57	-0.4	0.45	3.29*
ALB0502	55	7	32.4	-0.6	0.25	0.91*	6	32.4	-0.7	0.27	1.07*
Mid Atlantic Bight North											
ALB0502	42	51	6.01	-0.7	0.19	1.65	31	6.38	0	0.25	1.57
ALB0502	42	50	32.7	-0.9	0.15	0.58	31	32.9	-0.8	0.16	0.62
Mid Atlantic Bight South											
ALB0502	51	25	4.5	-0.6	0.25	0.99	16	5.56	0.06	0.33	1.44
ALB0502	51	25	32.3	-0.8	0.17	0.36	16	32.7	-0.8	0.2	0.48

(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.

ALB0502
Winter Bottom Trawl
1 - 25 February, 2005

Cast #	Sta #	Lat	Lon	Day	Month	Year	Time	Btm Depth	Sfc Temp	Sfc Salt	Btm Temp	Btm Salt	Meters from Btm
3	1	3921.6	7214.7	1	2	2005	11:36	269	7.4	33.25	10.7	35.36	10
4	2	3916.0	7226.7	1	2	2005	14:18	155	8.0	33.51	12.2	34.95	14
5	3	3916.0	7233.6	1	2	2005	16:53	139	6.7	32.95	12.1	34.99	9
6	4	3912.5	7235.6	1	2	2005	18:42	142	9.6	34.03	12.1	35.01	10
7	5	3907.1	7248.4	1	2	2005	21:30	106	9.8	34.20	11.2	34.70	10
8	6	3901.7	7255.8	1	2	2005	23:42	87	6.4	32.83	11.1	34.69	6
9	7	3906.7	7303.2	2	2	2005	1:12	73	6.5	32.71	6.5	32.75	11
10	8	3904.9	7315.8	2	2	2005	2:54	68	6.3	32.57	6.4	32.63	7
11	9	3858.2	7310.4	2	2	2005	4:41	77	6.5	32.80	6.7	32.90	10
12	10	3857.5	7255.9	2	2	2005	6:48	95	10.6	34.52	11.4	34.78	10
13	11	3850.5	7255.7	2	2	2005	10:00	279	11.7	34.92	12.7	35.29	79
14	11	3851.2	7255.2	2	2	2005	10:36	266	11.6	34.90	11.9	35.45	8
15	12	3852.8	7321.5	2	2	2005	14:00	64	6.3	32.58	6.6	32.74	8
16	13	3840.4	7312.1	2	2	2005	16:12	119	6.8	32.87	12.0	35.01	10
17	14	3830.3	7315.7	2	2	2005	18:12	410	6.9	32.92	6.3	35.03	13
18	15	3811.4	7441.5	3	2	2005	2:17	32	4.6	32.44	4.6	32.44	10
19	16	3803.1	7442.2	3	2	2005	5:18	33	5.0	32.61	5.1	32.61	9
20	17	3800.1	7451.3	3	2	2005	8:06	23	5.0	32.67	5.0	32.66	7
21	18	3749.4	7504.7	3	2	2005	11:11	24	4.3	32.22	4.3	32.22	10
22	19	3742.5	7509.7	3	2	2005	14:11	27	4.4	32.27	4.4	32.27	8
23	20	3733.2	7512.0	3	2	2005	16:00	33	4.7	32.46	4.7	32.47	10
24	21	3722.0	7518.2	3	2	2005	17:53	32	5.3	32.78	5.3	32.80	7
25	22	3711.9	7522.2	3	2	2005	19:42	28	5.5	32.90	5.5	32.91	6
26	23	3648.3	7519.6	3	2	2005	22:53	25	5.2	32.44	5.2	32.43	8
27	24	3636.1	7530.0	4	2	2005	1:17	29	4.4	32.00	4.4	32.00	18
28	25	3637.4	7520.2	4	2	2005	3:00	33	5.2	32.42	5.2	32.42	8
30	26	3628.8	7504.0	4	2	2005	6:00	42	6.9	32.98	6.9	32.98	6
31	27	3626.0	7520.9	4	2	2005	8:41	29	5.5	32.55	5.5	32.55	9
32	28	3607.3	7519.3	4	2	2005	12:41	33	5.3	32.32	5.5	32.45	8
33	29	3537.8	7509.9	4	2	2005	16:36	36	5.9	32.60	5.9	32.61	8

34	30	3531.4	7508.6	4	2	2005	18:53	32	5.9	32.59	5.9	32.59	6
35	31	3531.4	7453.6	6	2	2005	19:53	46	7.6	33.01	7.3	33.02	7
36	33	3539.0	7452.5	6	2	2005	23:06	67	7.2	32.98	7.0	32.99	10
39	35	3546.1	7451.7	7	2	2005	4:05	116	7.5	33.10	8.4	33.46	10
40	36	3550.1	7450.6	7	2	2005	8:00	311	7.3	33.02	11.8	34.86	85
41	37	4102.8	7105.0	16	2	2005	3:47	39	2.6	31.91	2.5	31.92	5
42	40	4058.0	7133.2	16	2	2005	10:53	51	3.5	31.48	3.7	32.07	8
43	41	4048.1	7133.9	16	2	2005	12:36	60	3.6	32.02	4.0	32.19	7
44	42	4047.1	7147.8	16	2	2005	14:30	54	3.8	31.70	3.8	32.08	11
45	43	4028.2	7203.9	16	2	2005	17:17	61	4.7	32.11	4.6	32.22	4
46	44	4038.9	7224.7	16	2	2005	19:47	41	4.0	31.51	5.1	32.20	6
47	45	4031.9	7233.2	16	2	2005	21:23	42	4.4	31.77	5.0	32.18	5
48	46	4009.6	7343.4	17	2	2005	3:24	38	4.0	31.66	4.9	32.29	8
49	47	3957.9	7307.4	17	2	2005	7:35	52	5.4	32.42	5.4	32.44	7
50	48	3935.7	7309.6	17	2	2005	11:41	40	5.6	32.52	5.6	32.52	9
51	49	3935.0	7326.4	17	2	2005	13:36	37	5.6	32.60	5.6	32.60	10
52	50	3927.3	7323.6	17	2	2005	15:18	35	5.6	32.52	5.6	32.52	8
53	51	3912.2	7346.9	17	2	2005	18:17	46	6.0	32.65	6.0	32.67	5
54	52	3859.2	7341.6	17	2	2005	20:17	46	5.8	32.50	5.8	32.50	5
55	53	3847.9	7356.9	17	2	2005	22:30	44	6.1	32.60	6.1	32.60	5
56	54	3840.1	7413.8	18	2	2005	0:53	43	5.9	32.70	5.9	32.70	11
57	55	3829.9	7403.2	18	2	2005	2:54	55	6.2	32.68	6.3	32.72	18
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68	66	3757.3	7401.6	19	2	2005	22:06	131	6.9	33.21	12.5	35.39	5
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70	69	3759.9	7406.2	20	2	2005	5:00	105	6.5	33.03	11.4	34.90	5
71	70	3810.7	7411.9	20	2	2005	6:48	55	6.2	32.82	6.3	32.83	6
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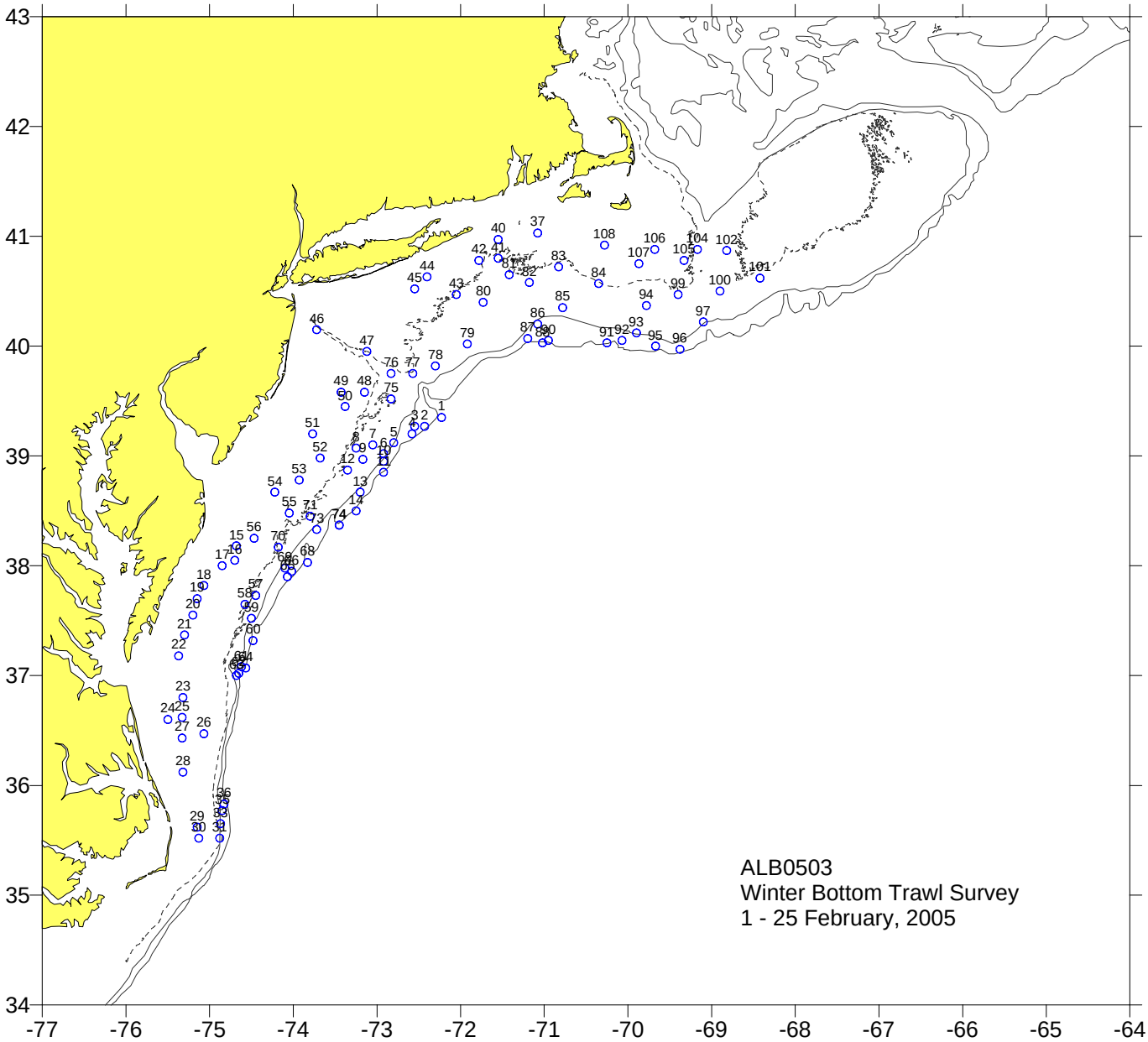
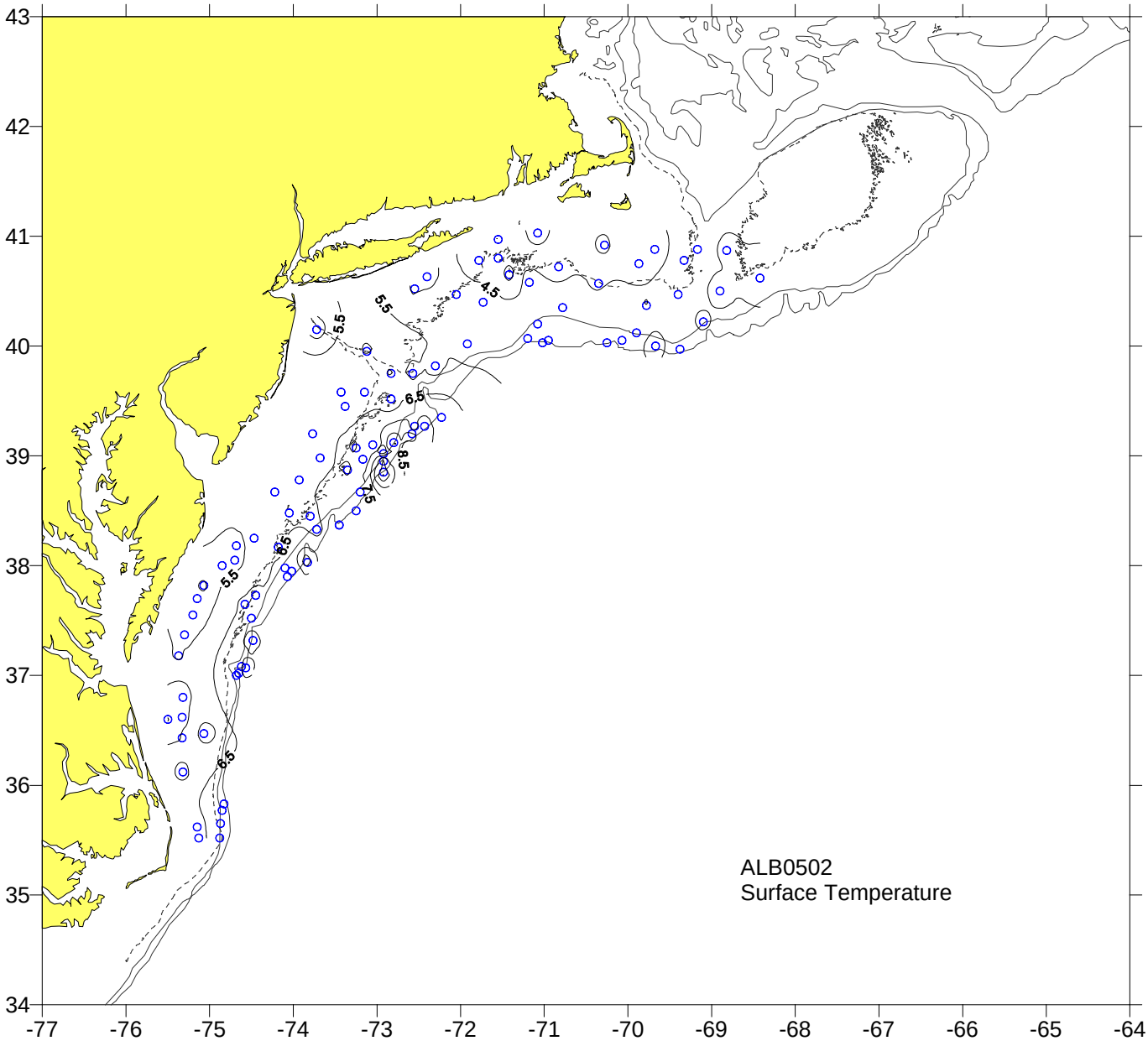
75	74	3822.6	7327.1	20	2	2005	18:00	290	7.3	33.41	9.7	35.28	7
76	75	3931.4	7250.8	21	2	2005	0:00	63	5.4	99.99	5.4	32.47	8
77	76	3945.8	7250.2	21	2	2005	3:42	69	5.4	32.43	5.4	32.45	9
78	77	3945.8	7234.4	21	2	2005	7:35	63	5.2	32.45	5.8	32.68	5
79	78	3949.9	7218.9	21	2	2005	10:36	83	5.0	32.52	10.7	34.64	8
80	79	4001.1	7155.1	21	2	2005	14:36	83	5.1	32.61	9.0	34.04	10
81	80	4024.1	7144.6	21	2	2005	18:53	74	5.0	32.46	7.4	33.48	5
82	81	4039.5	7125.1	21	2	2005	22:17	67	3.1	32.14	3.2	32.14	12
83	82	4035.9	7111.5	22	2	2005	0:36	67	4.8	32.37	4.7	32.37	8
84	83	4043.8	7050.4	22	2	2005	3:05	63	4.2	32.32	4.1	32.31	10
85	84	4034.8	7021.9	22	2	2005	6:11	61	4.4	32.36	4.2	32.35	7
86	85	4021.9	7047.2	22	2	2005	9:11	92	4.8	32.48	7.7	33.60	6
87	86	4012.4	7105.2	22	2	2005	11:48	124	4.7	32.45	10.3	34.50	10
88	87	4004.7	7112.7	22	2	2005	14:41	164	5.1	32.57	12.1	35.32	6
89	88	4002.5	7101.0	22	2	2005	17:30	250	5.2	32.75	10.1	35.33	4
90	90	4003.9	7057.1	22	2	2005	21:06	187	5.2	99.99	12.1	35.41	3
91	91	4002.0	7015.3	23	2	2005	2:12	199	5.4	33.03	12.3	35.46	4
92	92	4003.9	7004.9	23	2	2005	5:00	156	5.3	32.98	12.1	35.27	8
93	93	4007.4	6954.2	23	2	2005	7:00	108	5.0	32.83	7.5	33.71	9
94	94	4022.5	6947.5	23	2	2005	9:30	75	4.5	32.32	4.6	32.40	6
95	95	4000.5	6940.8	23	2	2005	12:53	128	6.3	99.99	12.6	35.30	7
96	96	3958.5	6923.9	23	2	2005	15:06	110	4.9	32.88	11.8	35.00	6
97	97	4013.5	6906.9	23	2	2005	19:30	121	4.4	32.51	8.3	34.34	8
98	99	4028.8	6924.5	24	2	2005	0:24	67	4.8	32.44	4.9	32.44	8
99	100	4030.7	6854.5	24	2	2005	3:12	73	4.3	32.31	4.3	32.31	7
100	101	4037.8	6825.3	24	2	2005	6:05	73	4.1	32.37	4.2	32.45	7
101	102	4052.9	6849.3	24	2	2005	10:00	72	4.4	32.34	4.4	32.34	6
103	104	4053.4	6910.1	24	2	2005	15:06	66	5.0	32.53	5.0	32.53	9
104	105	4047.9	6920.2	24	2	2005	18:23	25	4.7	32.49	4.7	32.50	5
105	106	4053.6	6941.4	24	2	2005	20:53	39	4.1	32.40	4.1	32.40	7
106	107	4045.0	6952.4	25	2	2005	0:06	41	3.9	32.35	3.9	32.36	8
107	108	4055.3	7017.9	25	2	2005	2:54	40	3.1	32.12	3.1	32.12	9


ALB0503
Winter Bottom Trawl Survey
1 - 25 February, 2005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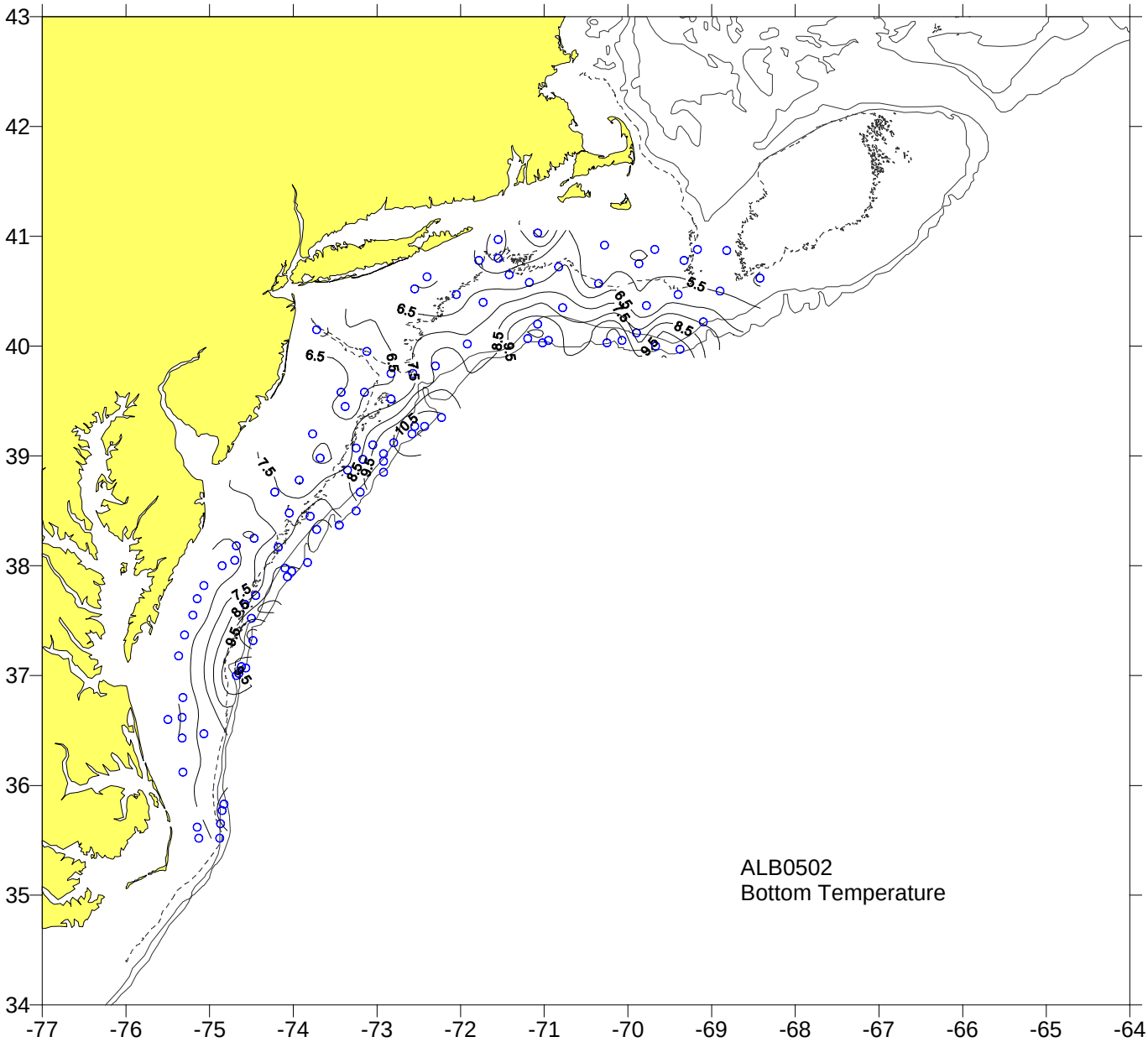
ALB0502
Surface Temperature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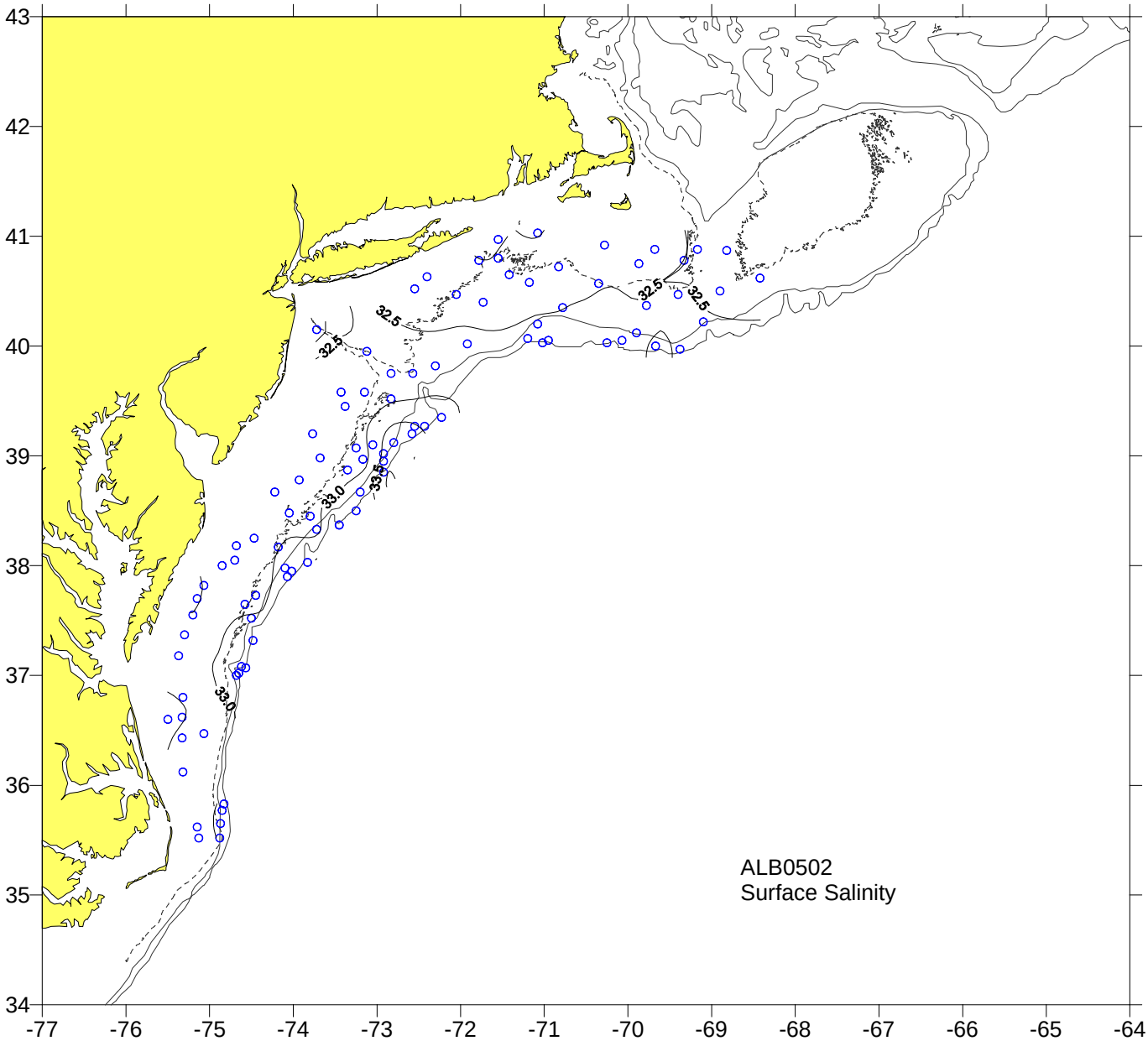
Bottom Temperature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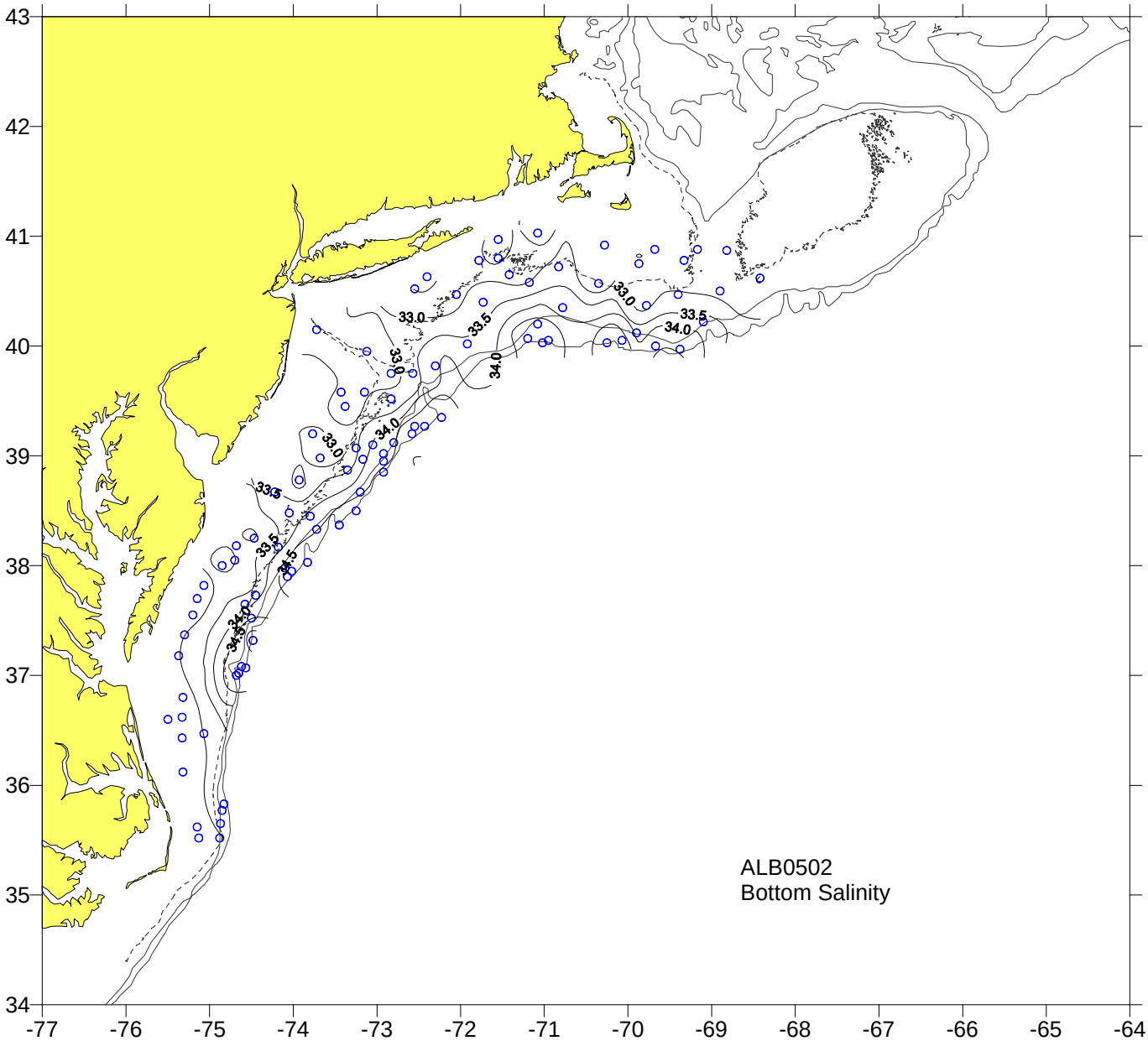
ALB0502
Surface Salinity


ALB0502
Bottom Salinity
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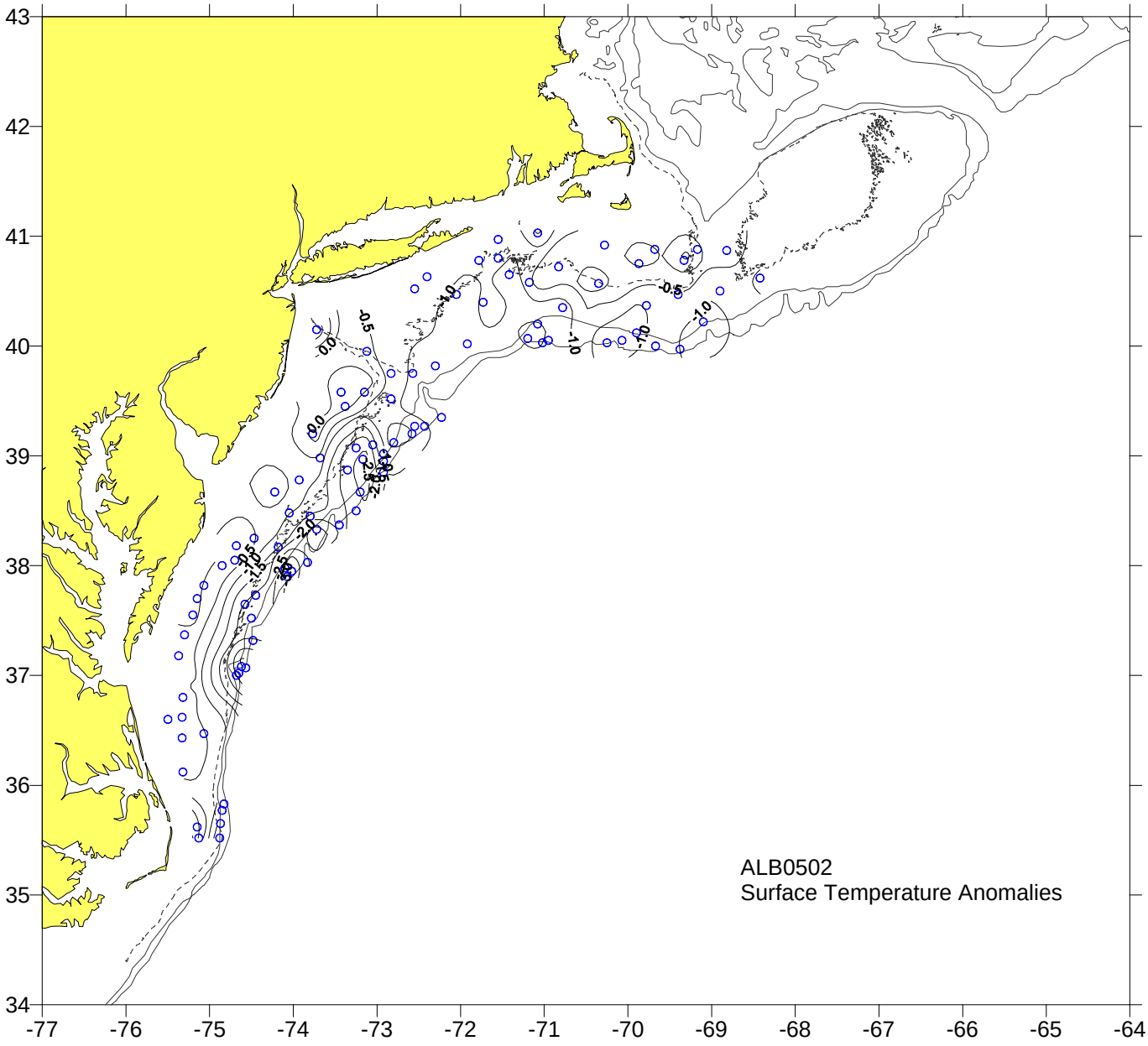
ALB0502
Surface Temperature Anomalies
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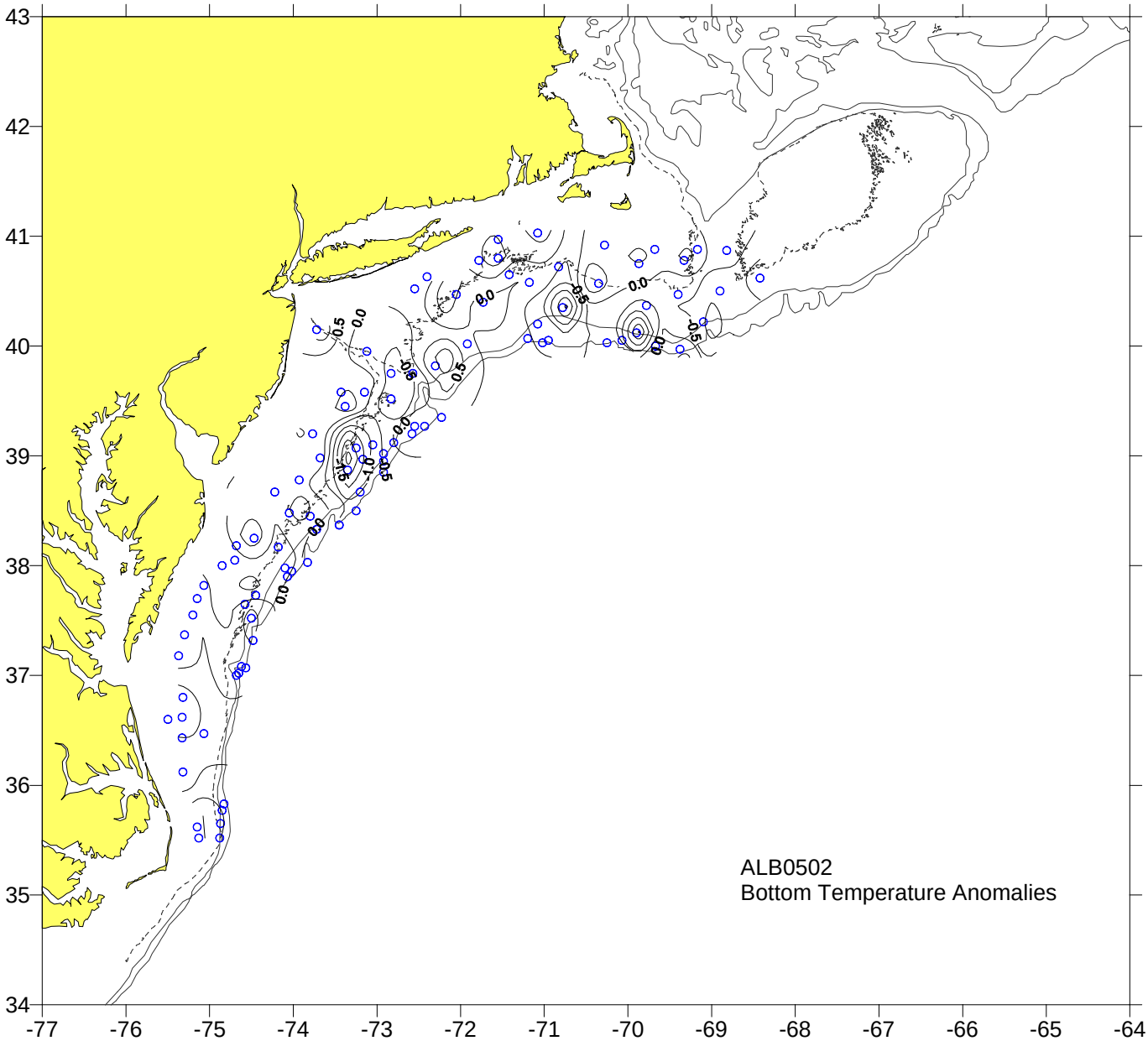
ALB0502
Bottom Temperature Anomalies
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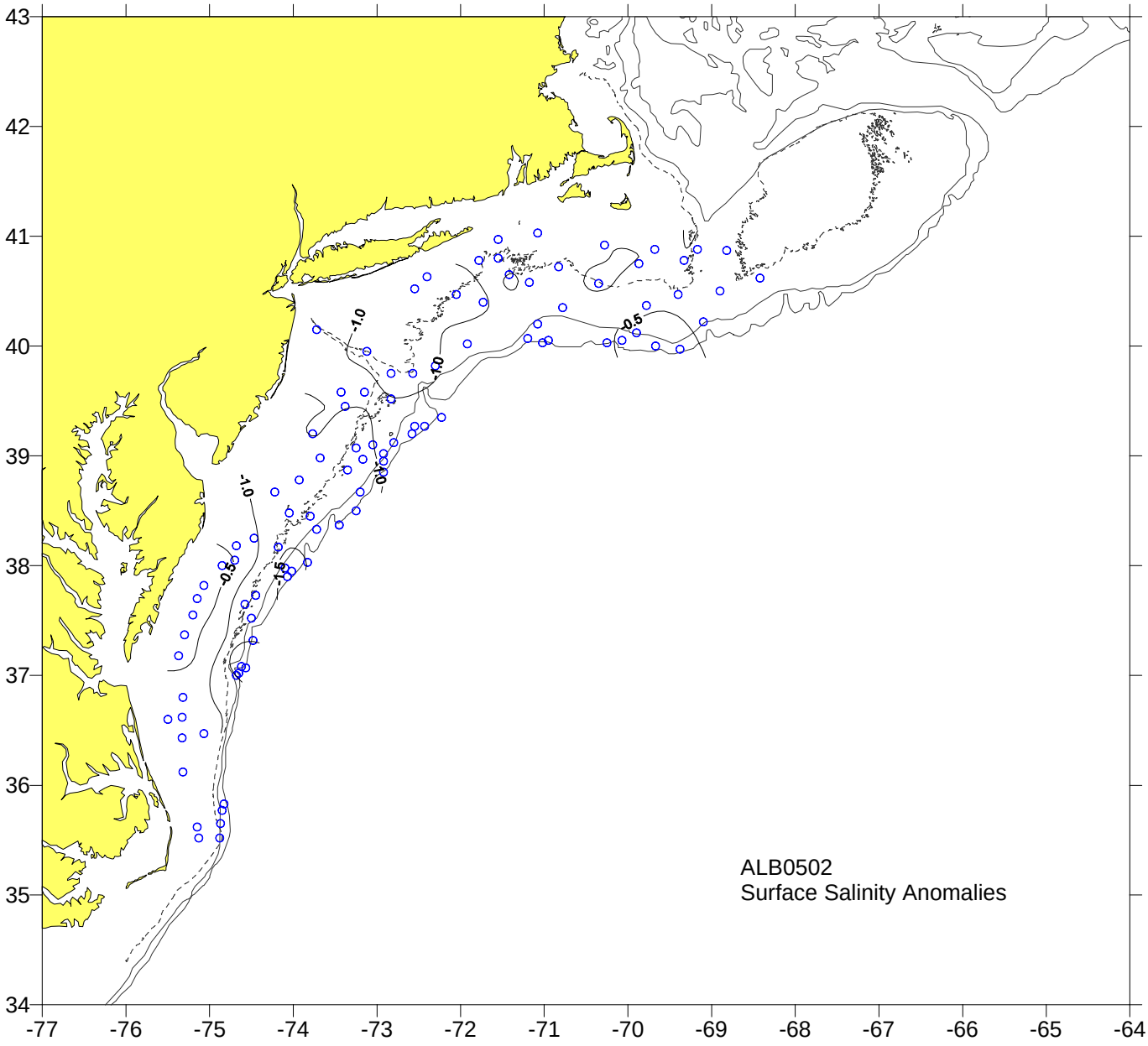
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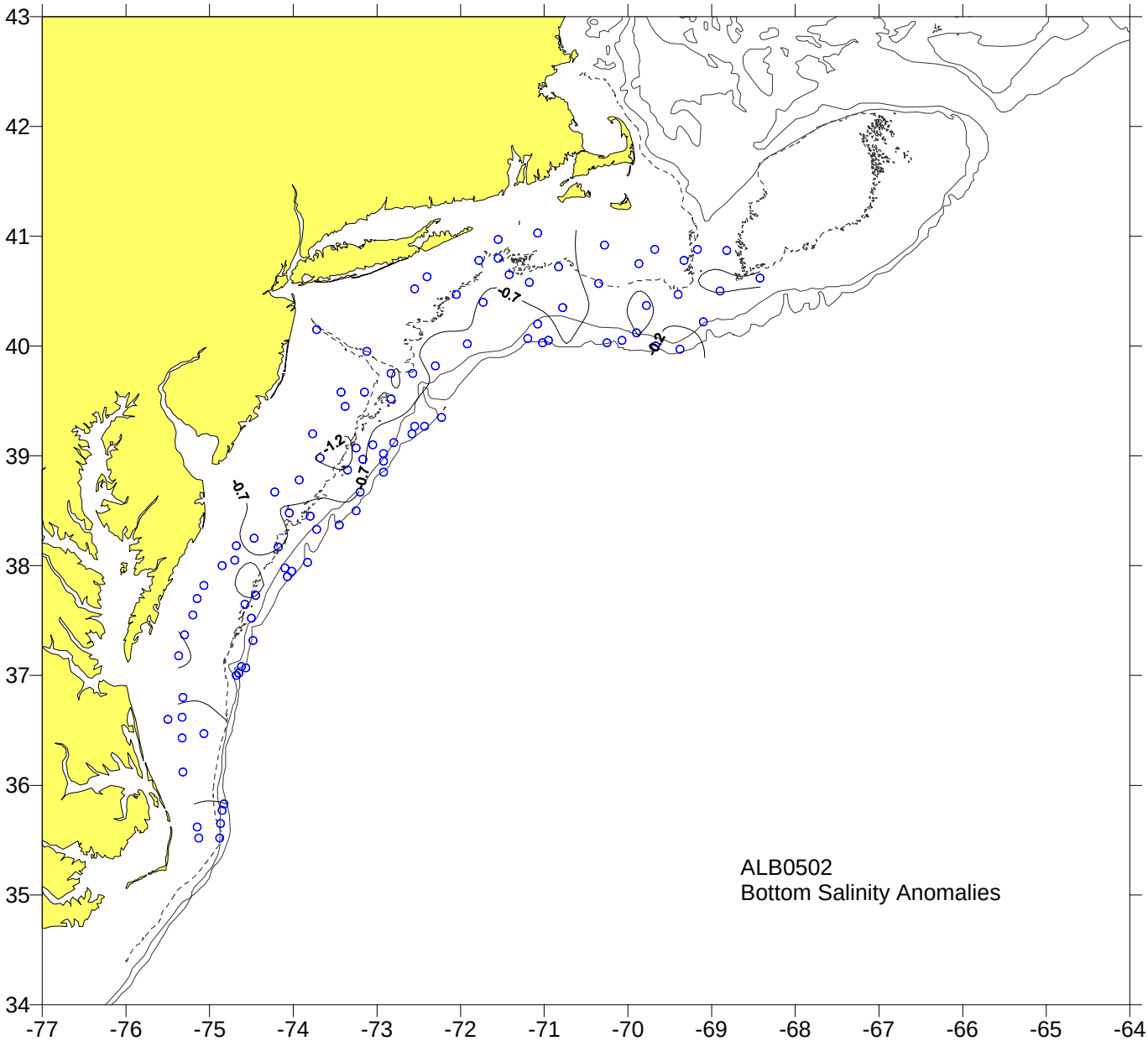
ALB0502
Surface Salinity Anomalies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ALB0502
Bottom Salinity Anomalies