

*Oceanography Branch CTD Data Report
Fall Bottom Trawl Survey and Survey
Calibration – AL 08-03*

**For further information, contact Cristina Bascuñán
National Marine Fisheries Service, Northeast Fisheries Science
Center, Woods Hole, Massachusetts 02543-1097.**

DATE: September 3 – Nov 13, 2008

Oceanography Branch CTD Data Report

CTD_REPORT_2008003AL

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

AL 08-03
FallBottom Trawl Survey and Survey Calibration
Data Coverage: September 3 – Nov 13, 2008
Northeast Shelf

This report presents a summary of surface and bottom temperature and salinity data collected during the Northeast Fisheries Science Center's 2008 Fall Bottom Trawl Survey and Survey Calibration cruise aboard the NOAA FRV *Albatross IV*. All data was obtained with a Seabird Electronics SBE Model 19 profiling CTD (s/n 1496). Data from the NEFSC 2008 Fall Bottom Trawl Survey Calibration aboard the NOAA FRV *Henry B. Bigelow* has been included in this report.

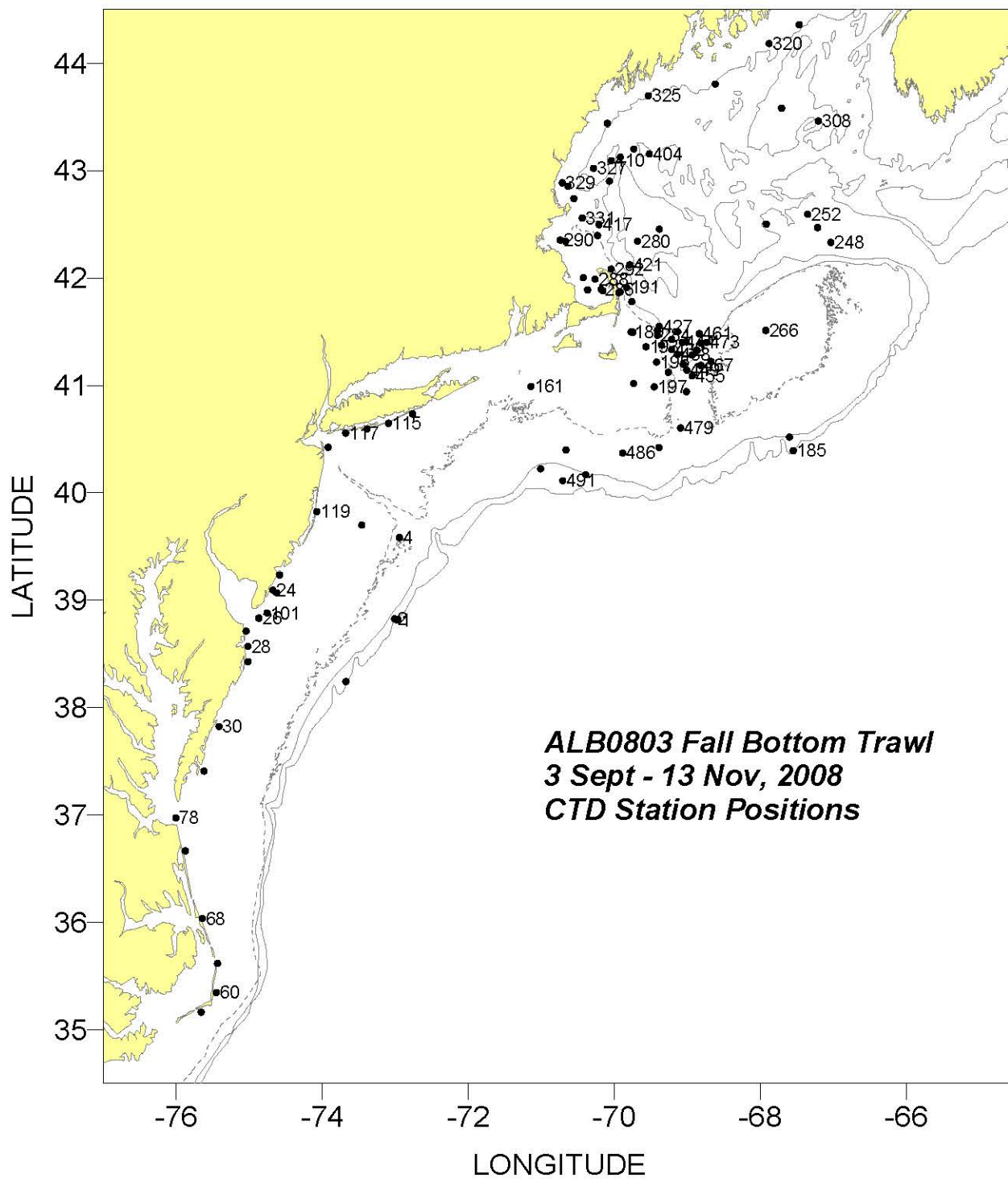
Data presented here have been audited, however, corrections and/or updates may be applied at a later time. The most recent and complete station data can be found in an NODC formatted ASCII file at:
<ftp://ftp.nefsc.noaa.gov/pub/hydro/alb0803.dat>

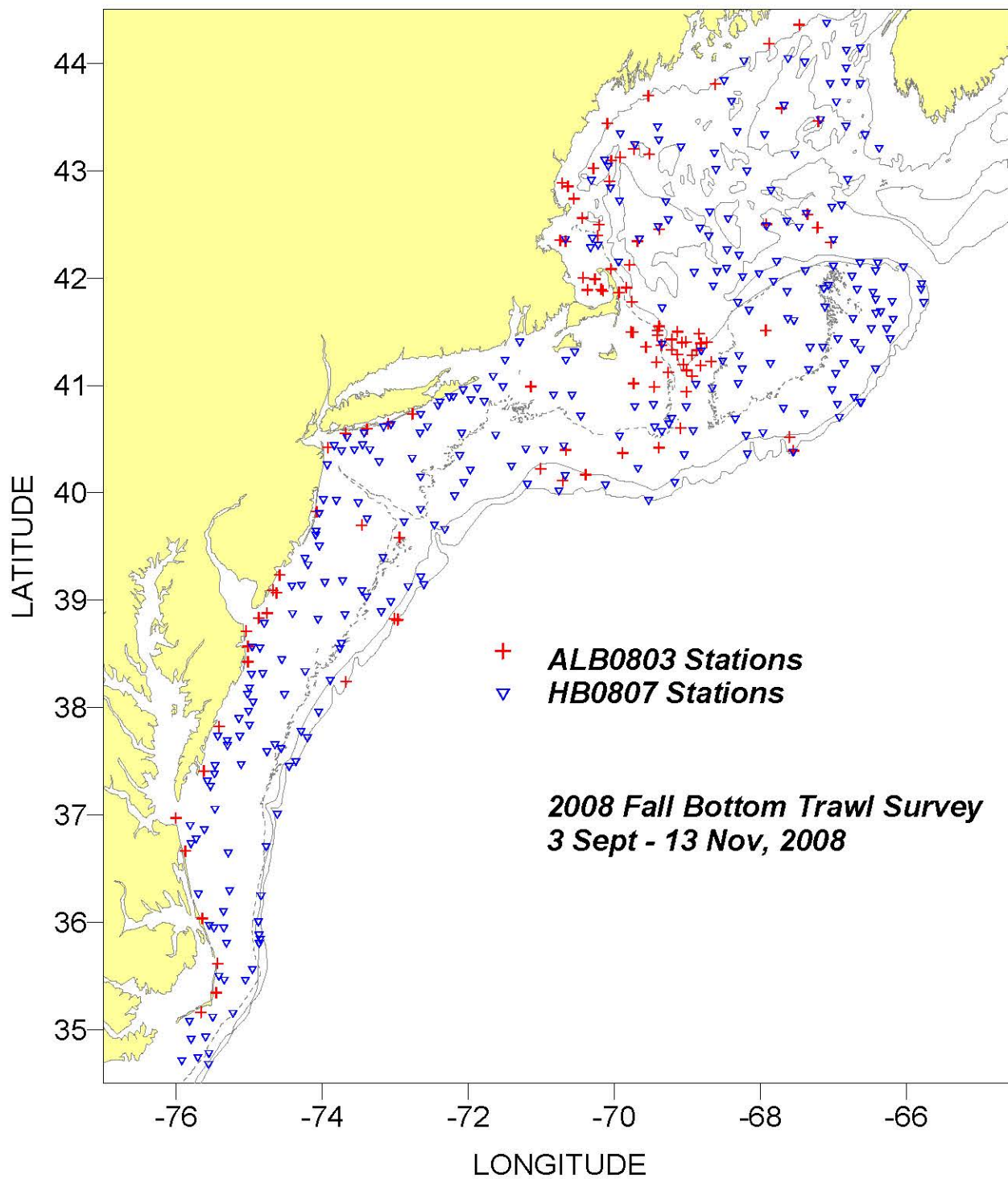
This report may be viewed on the Oceanography Branch website at:

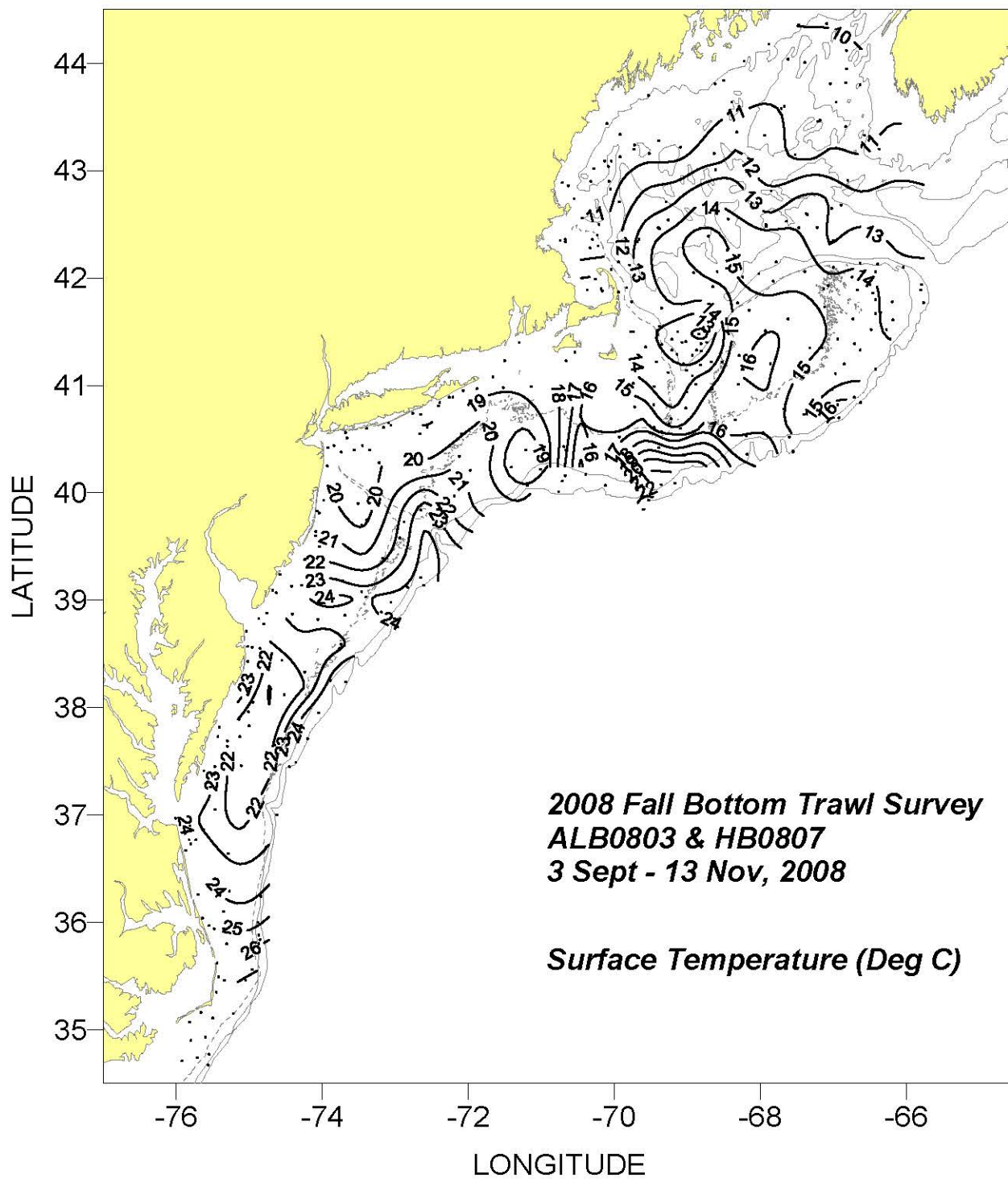
<http://www.nefsc.noaa.gov/HydroAtlas/>

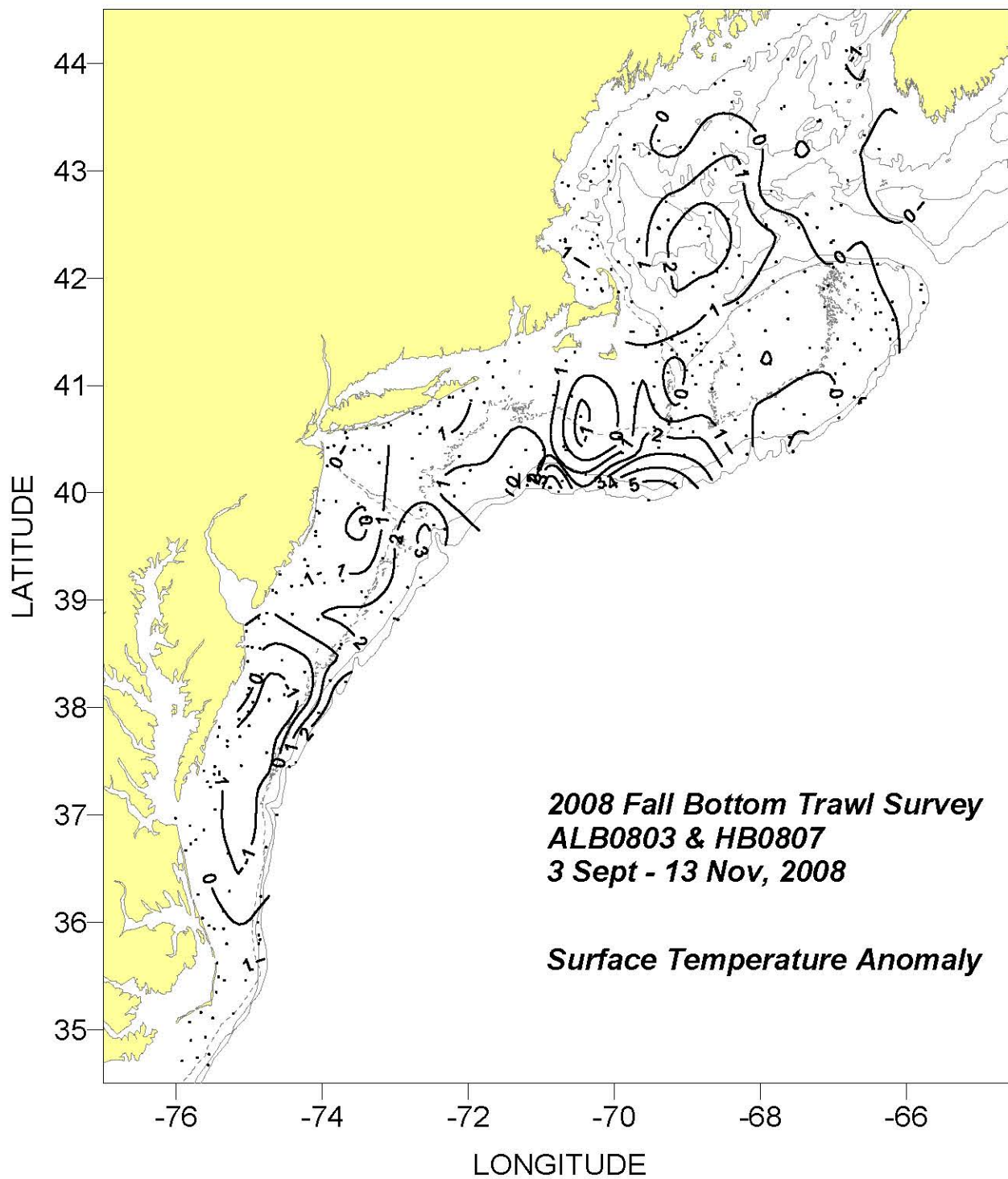
choose: **2008 Cruises**
 SEP_TRAWL_ALB0803
 CTD_REPORT_2008003AL.pdf

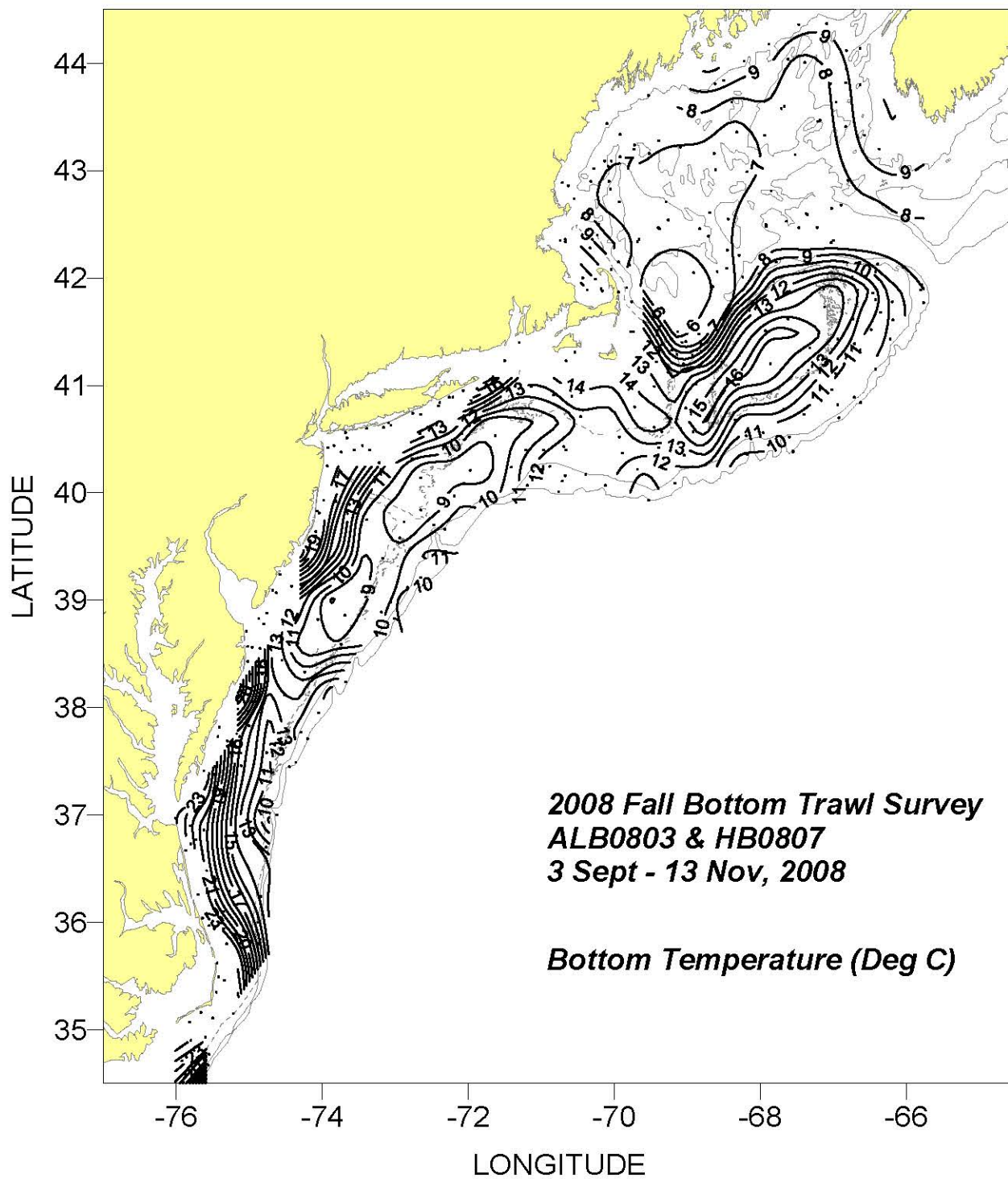
Revised: July 24, 2009

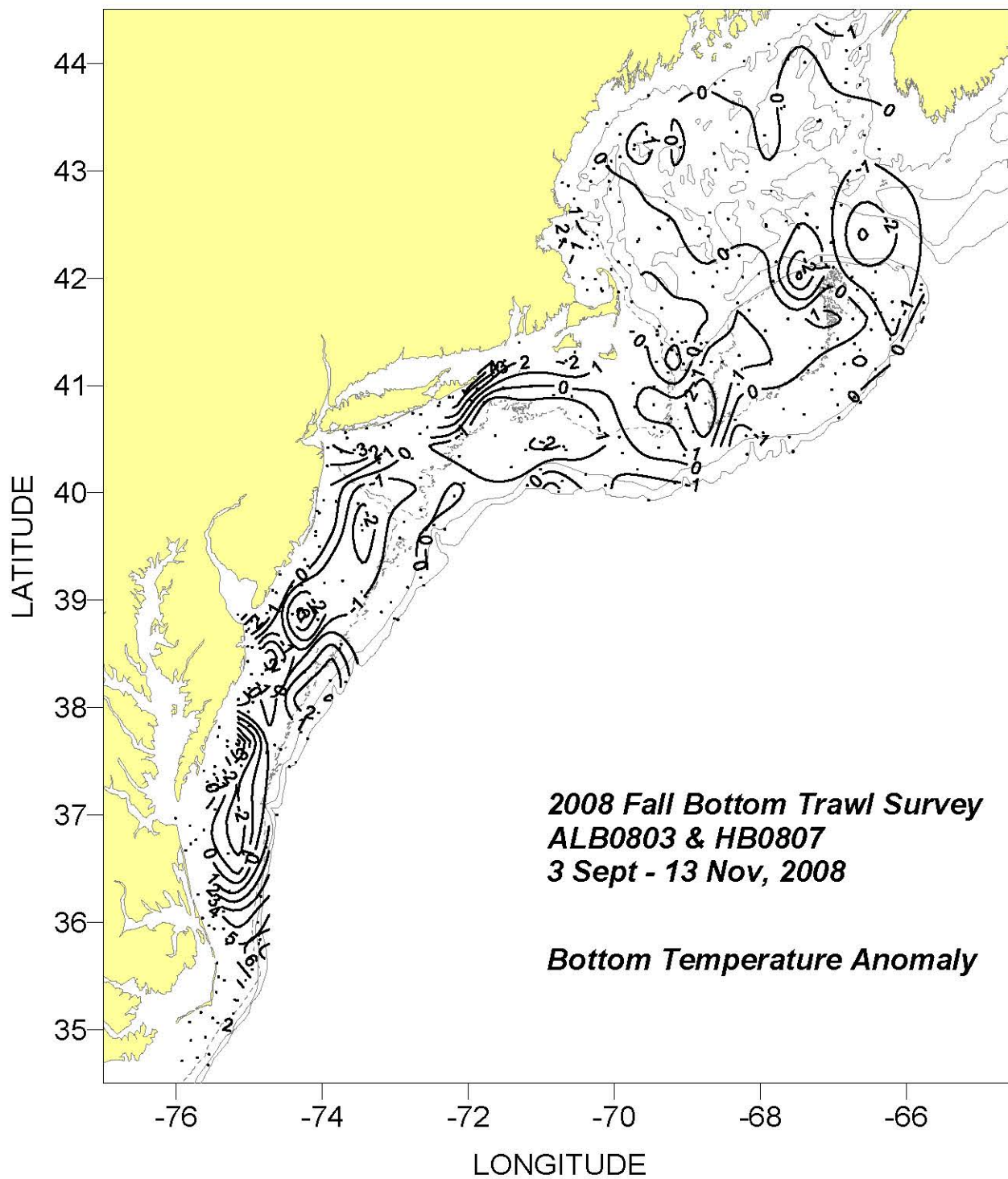


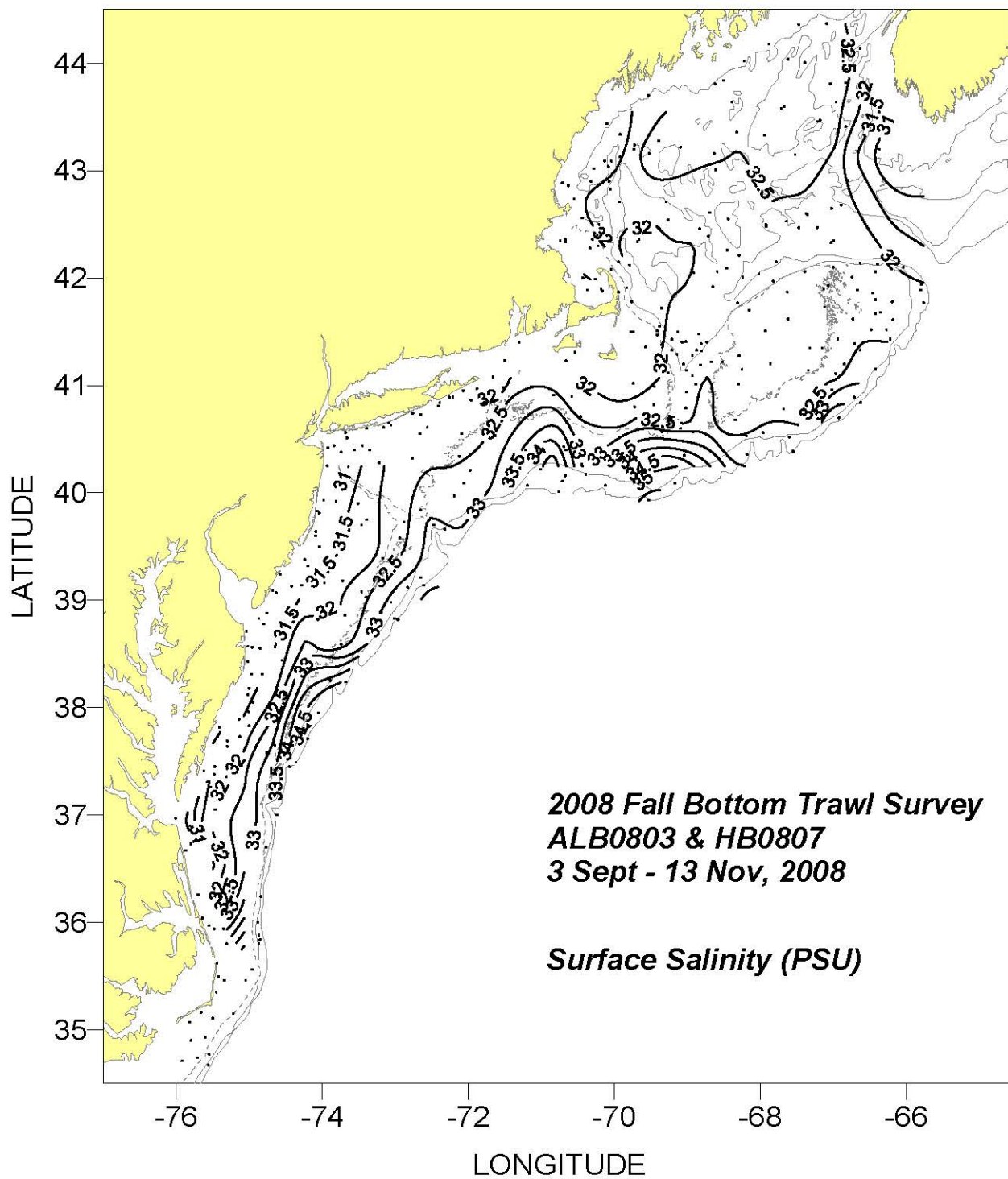


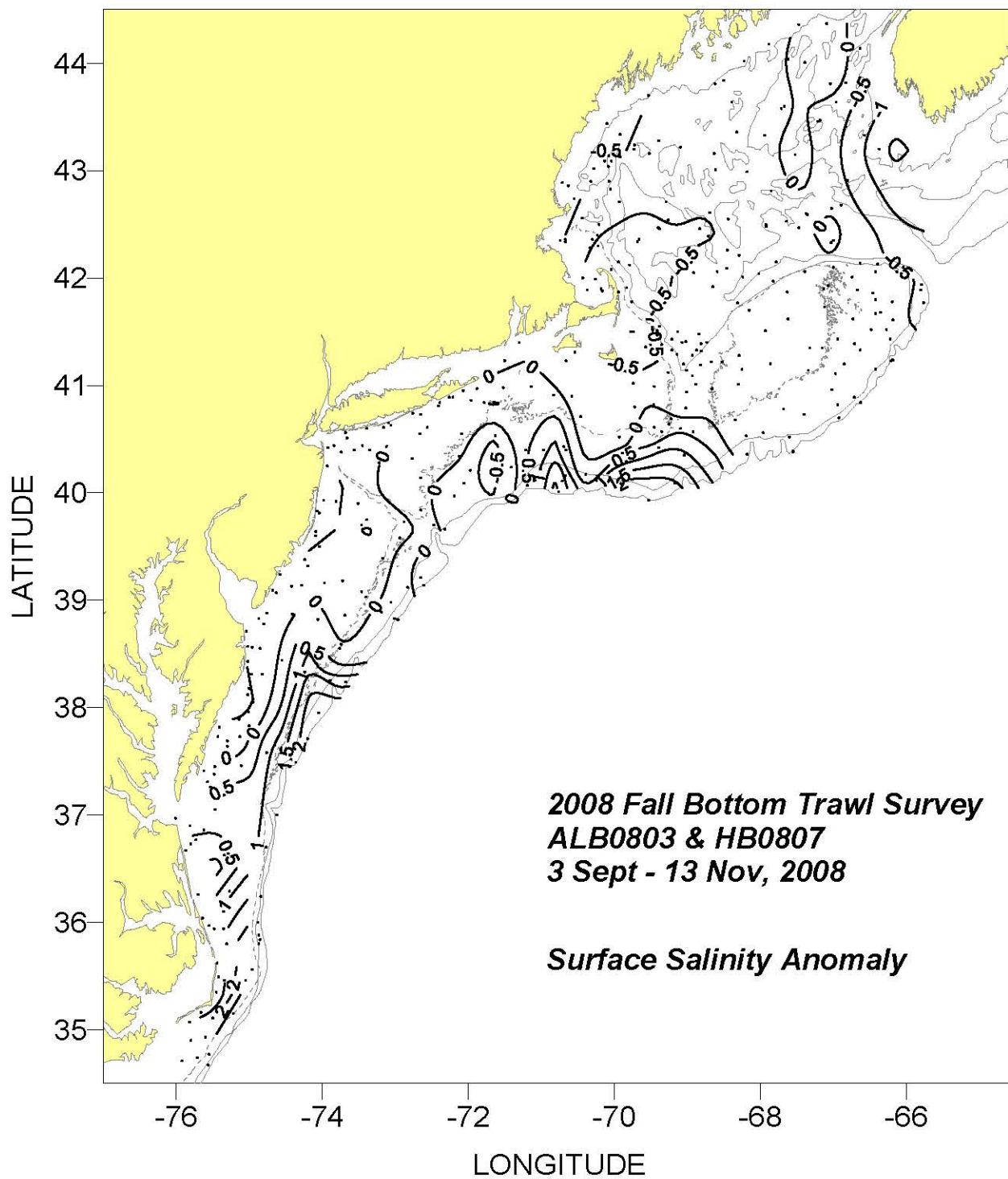


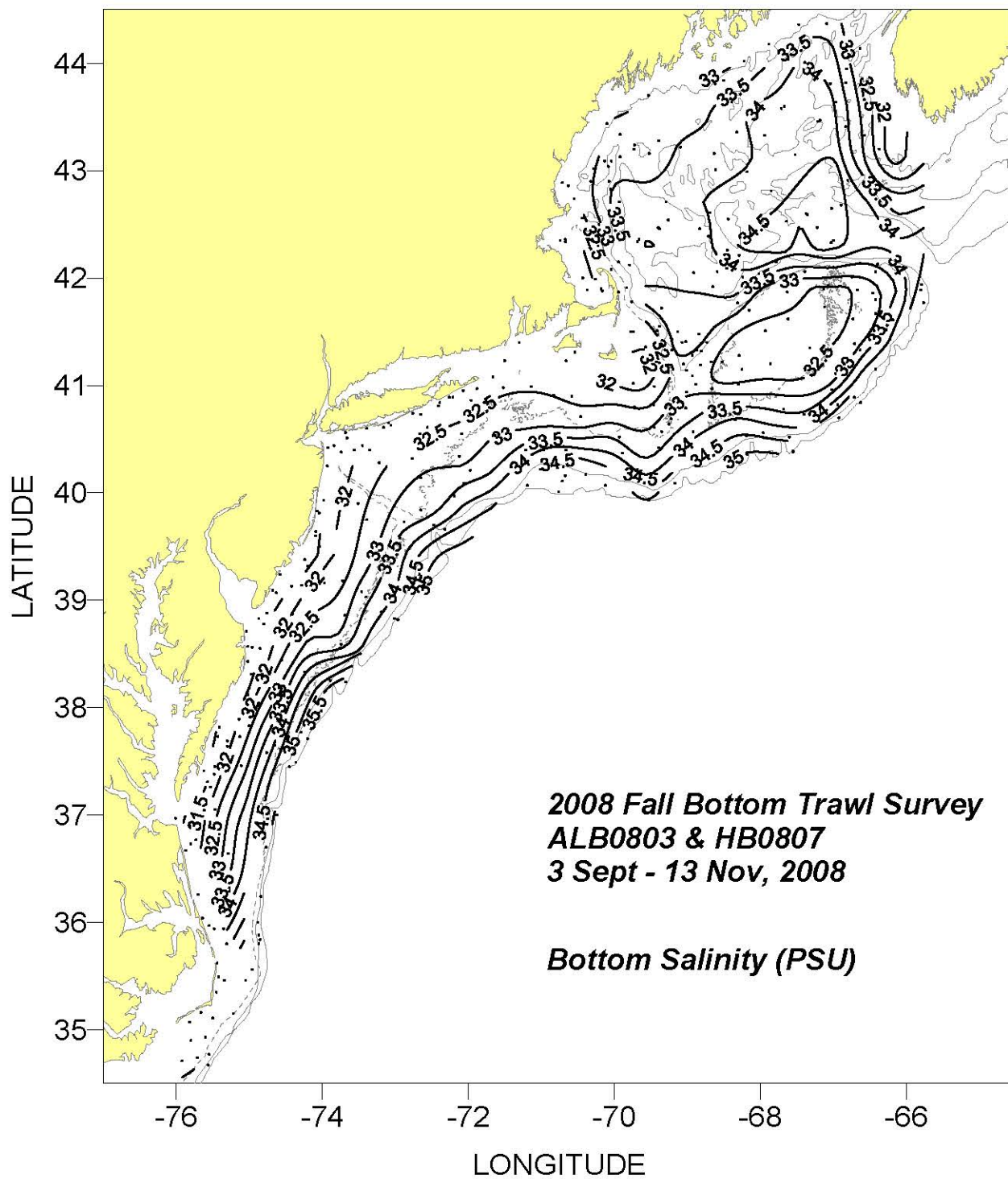


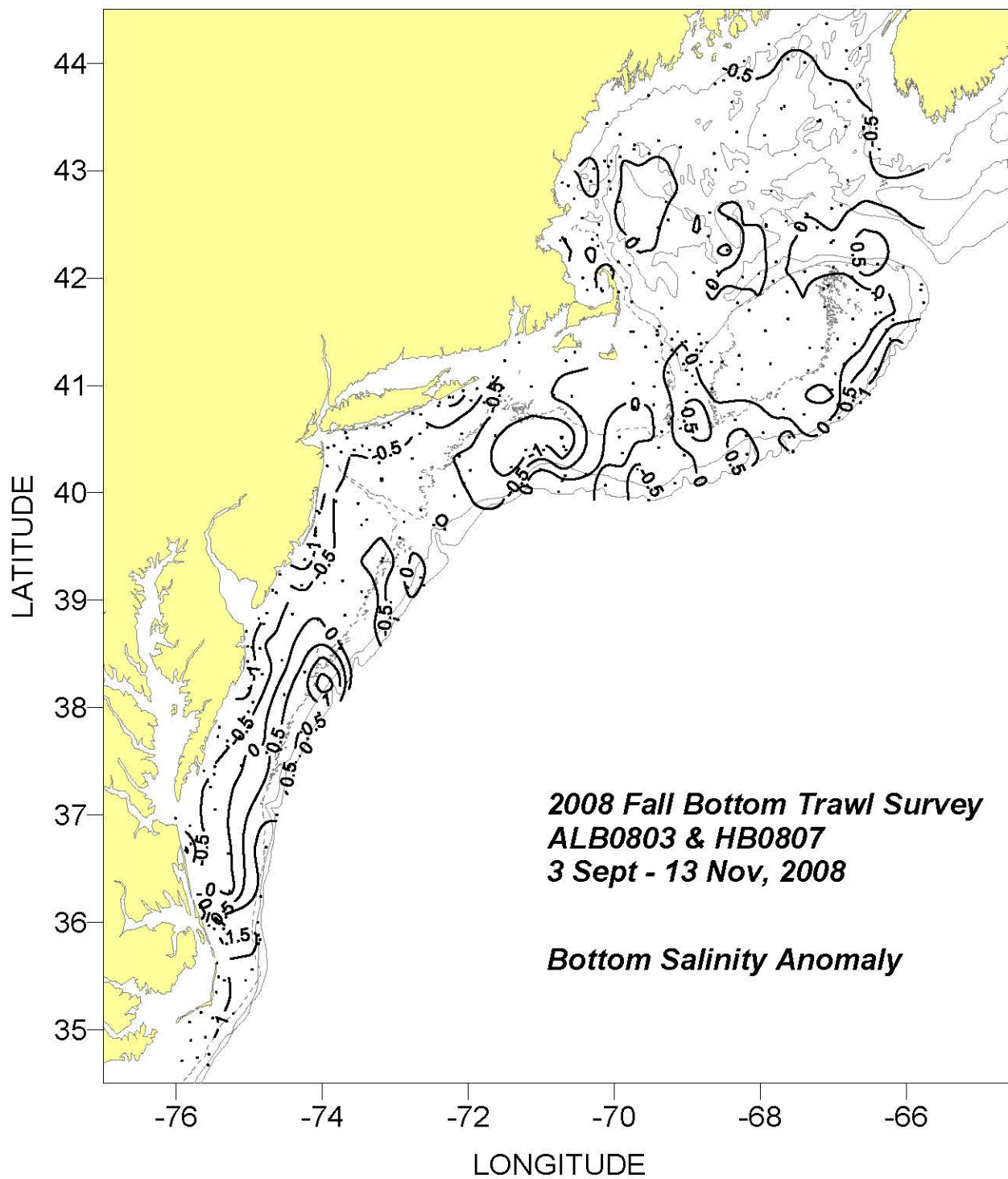












Areal average surface and bottom temperature/salinity and temperature/salinity anomalies
for the combined 2008 Fall Bottom Trawl Survey
including data from ALB0803 and HB0807

		SURFACE						BOTTOM						
CRUISE	CD	#obs	T/S	Anomaly	SDV1	SDV2	Flag	#obs	T/S	Anomaly	SDV1	SDV2	Flag	
Gulf of Maine West														
ALB0803/HB0807	300	70	12.34	0.84	0.14	0.91	0	68	7.35	-0.01	0.12	1.21	0	
ALB0803/HB0807	300	70	32.25	-0.35	0.09	0.25	0	68	33.42	-0.16	0.07	0.24	0	
Gulf of Maine East														
ALB0803/HB0807	295	33	11.88	-0.27	0.17	0.89	0	30	8.20	-0.66	0.18	1.48	0	
ALB0803/HB0807	295	33	32.34	-0.27	0.13	0.33	0	30	33.87	-0.22	0.10	0.42	0	
Georges Bank														
ALB0803/HB0807	285	66	15.35	0.51	0.14	1.08	0	57	12.89	0.31	0.19	1.85	0	
ALB0803/HB0807	285	66	32.63	-0.11	0.08	0.46	0	57	32.96	-0.10	0.11	0.37	0	
MAB North														
ALB0803/HB0807	271	58	18.95	1.05	0.18	1.38	0	51	12.08	-0.16	0.22	2.81	0	
ALB0803/HB0807	271	58	32.74	0.15	0.12	0.70	0	51	32.79	-0.64	0.13	0.55	0	
MAB South														
ALB0803/HB0807	255	81	22.76	0.47	0.15	1.32	0	75	14.40	0.30	0.18	2.90	0	
ALB0803/HB0807	255	80	32.41	0.30	0.12	1.09	0	74	33.09	-0.04	0.11	0.88	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.

ALB0803 Fall Bottom Trawl Survey
3 Sept. - 13 Nov., 2008

Cast #	Sta #	Lat	Long	Day	Mo	Year	Time (GMT)	Btm Depth	Sfc Temp	Sfc Salt	Btm Temp	Btm Salt	Meters from Bottom
1	1	3848.9	7258.3	3	9	2008	14:10	371	24.11	99.99	11.10	99.99	160
2	1	3849.2	7257.8	3	9	2008	14:36	293	22.71	99.99	9.19	99.99	5
3	2	3849.6	7300.6	3	9	2008	17:01	113	22.84	99.99	12.41	99.99	1
4	3	3814.5	7340.6	3	9	2008	23:43	132	25.49	34.51	13.15	35.67	5
5	4	3935.0	7256.6	4	9	2008	11:07	60	22.45	32.13	8.88	33.44	3
7	23	3914.1	7435.0	6	9	2008	6:25	10	24.52	30.12	23.29	31.02	4
8	24	3905.6	7440.5	6	9	2008	8:28	13	23.75	31.01	22.65	31.17	6
9	25	3904.1	7437.5	6	9	2008	10:07	13	23.66	30.90	22.76	31.17	5
10	26	3850.0	7452.1	6	9	2008	12:31	11	22.72	30.95	22.71	30.96	3
11	27	3842.7	7502.6	6	9	2008	14:33	13	23.43	30.86	23.42	30.86	4
12	28	3834.2	7501.1	7	9	2008	4:24	12	22.47	30.88	22.49	30.87	3
13	29	3825.6	7501.0	7	9	2008	6:11	11	23.48	31.07	23.47	31.07	3
14	30	3749.4	7524.8	7	9	2008	11:55	9	23.86	31.57	23.87	31.57	3
15	51	3509.7	7539.5	9	9	2008	19:28	17	27.57	36.11	27.08	36.20	3
16	60	3520.7	7527.0	10	9	2008	15:21	14	26.53	99.99	26.68	99.99	3
17	63	3537.0	7526.1	10	9	2008	21:04	18	26.24	32.05	25.99	34.61	2
18	68	3602.1	7538.6	11	9	2008	6:05	14	24.81	99.99	24.32	31.67	4
19	73	3639.9	7552.4	11	9	2008	19:32	14	25.05	26.99	24.02	30.83	4
20	78	3658.3	7600.3	12	9	2008	4:55	13	24.06	99.99	24.07	99.99	4
21	82	3724.5	7537.2	12	9	2008	15:30	10	23.73	99.99	23.74	99.99	3
22	101	3852.8	7445.3	14	9	2008	6:56	14	22.44	99.99	21.10	99.99	4
23	114	4044.1	7245.8	20	9	2008	4:58	20	19.45	30.96	19.46	30.97	4
24	115	4038.8	7305.6	20	9	2008	7:09	12	19.67	31.33	19.67	31.34	4
25	116	4035.7	7323.2	20	9	2008	9:07	11	19.66	31.28	19.67	31.28	3
26	117	4033.3	7340.7	20	9	2008	11:16	13	19.47	30.80	19.46	30.80	4
27	118	4025.4	7355.2	20	9	2008	13:22	20	19.60	29.12	19.30	30.65	3
28	119	3949.5	7404.4	20	9	2008	19:16	11	20.37	30.62	20.38	30.70	2
29	124	3941.9	7327.5	21	9	2008	12:38	32	19.37	31.73	9.34	32.47	4
30	161	4059.4	7108.5	25	9	2008	1:06	52	18.58	32.31	12.61	32.50	5
31	165	4023.9	7039.7	30	9	2008	2:10	84	19.02	34.04	10.57	33.40	4
32	185	4023.5	6732.8	2	10	2008	12:52	210	15.68	32.49	10.07	35.24	4

ALB0803 Fall Bottom Trawl Survey
3 Sept. - 13 Nov., 2008

Cast #	Sta #	Lat	Long	Day	Mo	Year	Time (GMT)	Btm Depth	Sfc Temp	Sfc Salt	Btm Temp	Btm Salt	Meters from Bottom
33	186	4031.1	6736.0	2	10	2008	15:03	132	14.99	32.25	11.16	35.13	5
34	189	4129.9	6946.2	6	10	2008	22:43	22	13.53	31.59	13.30	31.65	5
35	190	4151.9	6956.2	7	10	2008	3:13	16	14.11	31.31	14.08	31.32	5
36	191	4154.7	6949.9	7	10	2008	5:41	71	14.16	31.29	7.69	32.64	2
37	192	4129.8	6944.6	7	10	2008	9:43	22	13.34	31.60	13.26	31.63	7
38	193	4121.6	6933.9	7	10	2008	11:52	30	13.49	31.70	13.20	31.78	6
39	194	4122.5	6921.1	7	10	2008	14:40	55	14.15	31.48	9.23	32.38	3
40	195	4113.0	6925.2	7	10	2008	16:34	42	13.76	31.72	11.89	32.07	5
41	196	4107.3	6915.6	7	10	2008	19:31	50	13.66	32.16	13.48	32.60	3
42	197	4059.2	6927.2	7	10	2008	21:31	40	13.58	31.85	13.05	31.89	4
43	198	4101.1	6944.1	7	10	2008	23:43	40	14.21	31.63	13.68	31.71	4
44	248	4219.9	6701.9	12	10	2008	23:57	304	12.89	32.41	7.33	34.91	5
45	251	4228.2	6712.9	13	10	2008	8:37	339	13.06	32.47	7.35	34.90	5
46	252	4235.6	6721.0	13	10	2008	10:58	273	13.11	32.51	7.38	34.89	4
47	255	4230.1	6755.0	13	10	2008	19:07	218	14.65	32.18	7.51	34.69	5
48	266	4130.7	6755.5	15	10	2008	0:07	41	15.97	32.37	15.98	32.38	5
49	279	4227.3	6922.9	16	10	2008	7:09	266	14.72	31.90	6.76	34.11	2
50	280	4220.6	6940.9	16	10	2008	9:58	245	13.44	31.59	6.60	34.01	3
51	283	4130.6	6924.6	16	10	2008	23:38	63	15.11	31.73	8.08	32.79	5
52	284	4128.0	6924.5	17	10	2008	1:25	51	14.01	31.78	9.62	32.51	4
53	285	4153.4	7021.9	21	10	2008	19:30	33	13.50	31.30	13.20	31.40	4
54	286	4153.7	7010.8	21	10	2008	21:38	27	12.65	31.50	10.53	31.92	4
55	287	4152.8	7009.3	21	10	2008	23:34	16	12.03	31.62	12.00	31.62	4
56	288	4159.4	7015.8	22	10	2008	1:52	41	13.35	31.35	12.63	31.53	16
57	289	4200.2	7025.5	22	10	2008	4:25	45	12.72	31.49	9.43	32.10	4
58	290	4221.2	7044.3	22	10	2008	10:10	38	12.52	31.47	12.22	31.71	4
59	291	4220.5	7040.0	22	10	2008	13:51	59	12.31	31.58	9.13	32.28	8
60	292	4205.0	7002.6	23	10	2008	19:25	40	11.69	31.69	11.36	31.80	1
61	299	4334.9	6742.4	24	10	2008	18:49	260	11.15	32.82	7.60	34.29	6
62	308	4327.7	6712.3	26	10	2008	0:10	213	10.56	32.86	7.44	34.12	6
63	317	4421.5	6727.9	27	10	2008	14:22	100	9.98	32.81	9.57	33.12	6

ALB0803 Fall Bottom Trawl Survey
3 Sept. - 13 Nov., 2008

Cast #	Sta #	Lat	Long	Day	Mo	Year	Time (GMT)	Btm Depth	Sfc Temp	Sfc Salt	Btm Temp	Btm Salt	Meters from Bottom
64	320	4411.0	6752.7	28	10	2008	1:43	95	10.38	32.59	10.08	32.82	3
65	324	4348.4	6837.0	28	10	2008	15:34	115	10.32	32.79	9.93	33.01	5
66	325	4341.9	6931.9	30	10	2008	2:10	105	10.54	32.03	9.46	32.87	3
67	326	4326.4	7005.7	30	10	2008	8:19	118	10.52	31.63	7.74	32.99	6
68	327	4301.3	7017.0	30	10	2008	12:21	145	10.67	32.11	6.08	32.89	5
69	328	4251.3	7038.0	30	10	2008	16:22	77	11.06	31.74	8.84	32.51	8
70	329	4253.2	7042.7	30	10	2008	18:49	37	11.24	31.36	10.51	32.40	6
71	330	4244.4	7033.2	30	10	2008	20:43	86	11.00	32.00	7.79	32.54	5
72	331	4233.5	7026.2	30	10	2008	23:37	113	10.91	31.90	9.20	32.59	9
73	401	4312.1	6943.9	5	11	2008	14:07	112	10.50	32.47	7.02	33.05	4
74	404	4309.3	6931.2	5	11	2008	18:52	109	10.75	32.72	7.29	33.04	4
75	407	4307.5	6955.1	6	11	2008	0:09	171	10.05	31.68	6.13	33.65	3
76	410	4305.6	7002.4	6	11	2008	6:28	97	10.14	31.92	7.67	32.92	4
77	413	4254.1	7004.0	6	11	2008	11:19	94	10.64	32.53	8.98	32.79	4
78	417	4229.8	7012.5	7	11	2008	3:01	69	10.98	31.63	8.96	32.69	2
79	418	4223.8	7013.6	7	11	2008	14:01	63	10.91	31.62	9.21	32.58	5
80	421	4207.4	6947.4	7	11	2008	19:31	145	11.33	32.20	6.23	33.34	3
81	424	4146.8	6945.6	8	11	2008	0:31	114	11.21	31.95	7.11	33.07	5
82	427	4133.0	6923.0	8	11	2008	9:51	83	11.51	32.17	8.28	32.81	7
83	429	4125.7	6912.8	8	11	2008	14:13	147	11.92	32.17	5.76	33.13	4
84	432	4120.0	6912.7	8	11	2008	22:42	111	11.29	32.21	7.15	32.91	5
85	435	4130.0	6908.0	9	11	2008	2:58	157	12.43	32.17	5.66	33.27	6
86	438	4117.3	6908.1	9	11	2008	7:40	110	11.73	32.20	6.05	33.00	4
87	441	4111.7	6903.1	9	11	2008	13:53	114	13.33	32.64	6.94	32.94	4
88	444	4124.0	6904.2	9	11	2008	18:49	150	12.17	32.18	5.76	33.16	3
89	447	4124.3	6901.0	10	11	2008	0:46	147	12.14	32.19	5.62	33.19	3
90	449	4108.5	6900.4	10	11	2008	5:28	98	13.21	32.53	7.03	32.93	4
91	452	4056.5	6900.6	10	11	2008	14:46	81	13.27	32.56	13.30	32.71	7
92	455	4105.3	6855.9	10	11	2008	22:52	83	12.61	32.61	11.76	32.71	3
93	458	4117.0	6856.0	11	11	2008	4:04	122	13.10	32.51	6.52	32.96	5
94	461	4128.9	6850.2	11	11	2008	9:19	139	11.43	32.18	5.75	33.15	5

ALB0803 Fall Bottom Trawl Survey
3 Sept. - 13 Nov., 2008

Cast #	Sta #	Lat	Long	Day	Mo	Year	Time (GMT)	Btm Depth	Sfc Temp	Sfc Salt	Btm Temp	Btm Salt	Meters from Bottom
95	464	4119.7	6852.2	11	11	2008	14:31	130	12.89	32.51	6.73	32.93	6
96	467	4111.2	6848.9	11	11	2008	19:42	84	12.61	32.66	9.52	32.71	4
97	470	4123.6	6848.7	12	11	2008	0:22	130	11.75	32.21	6.33	32.95	3
98	473	4124.1	6843.9	12	11	2008	5:52	110	11.79	32.22	6.78	32.94	5
99	476	4113.4	6840.3	12	11	2008	11:06	63	12.78	32.48	12.41	32.50	6
100	479	4036.2	6905.5	12	11	2008	22:43	68	12.93	32.72	14.57	33.76	4
101	482	4025.3	6923.2	13	11	2008	2:46	67	12.77	32.69	14.68	33.80	3
102	486	4022.2	6953.1	13	11	2008	8:21	78	12.84	32.56	13.35	33.79	5
103	489	4010.1	7023.5	13	11	2008	15:06	114	13.03	32.78	13.19	35.28	3
104	491	4006.8	7042.3	13	11	2008	18:12	124	20.99	35.89	15.06	35.63	3
105	494	4013.4	7100.5	13	11	2008	23:31	119	17.64	35.03	14.40	35.74	3