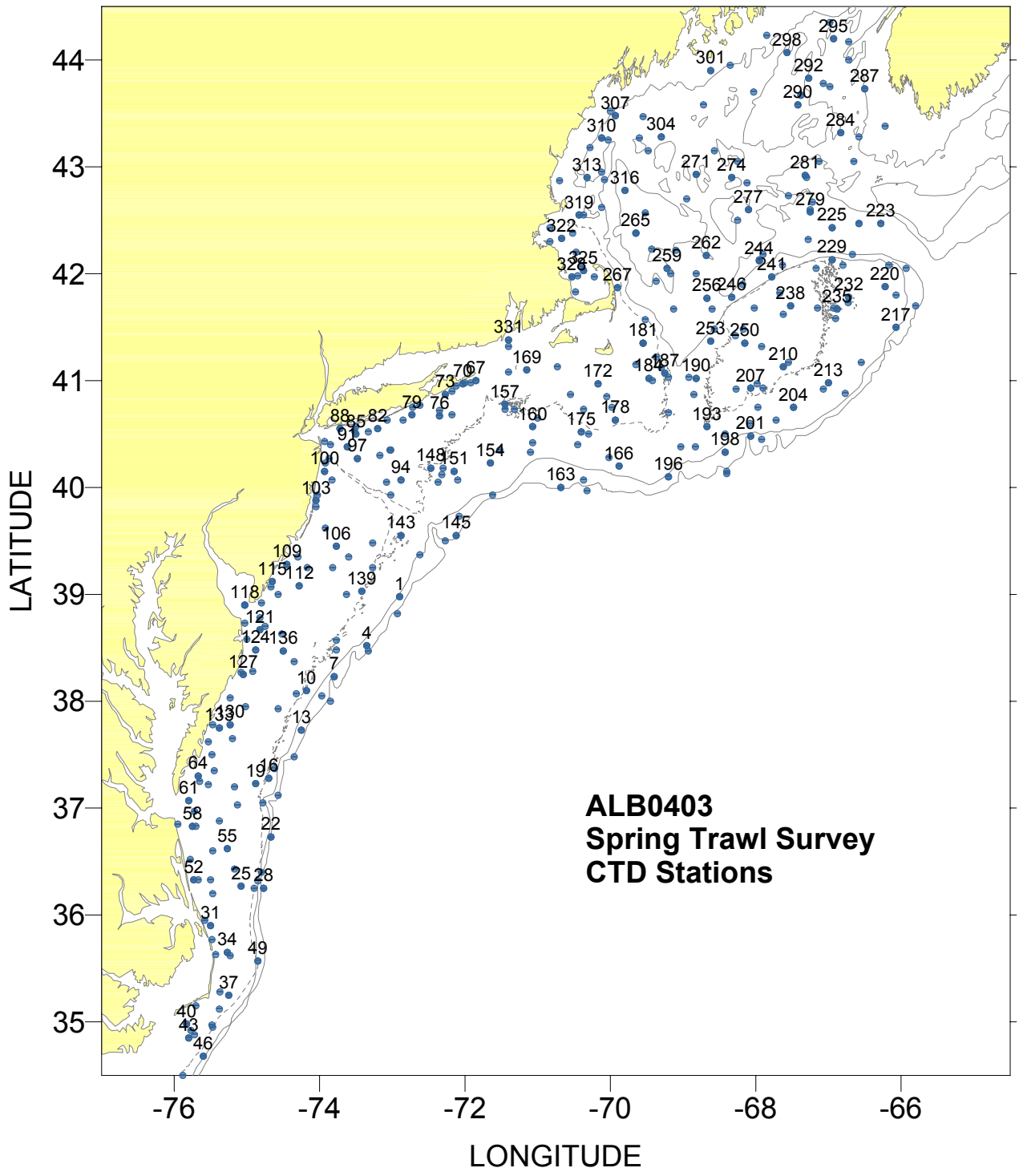

ALB0403
Spring Trawl Survey
CTD Stations
LATITUDE
LONGITUDE
44
43
42
41
40
39
38
37
36
35
-76
-74
-72
-70
-68
-66

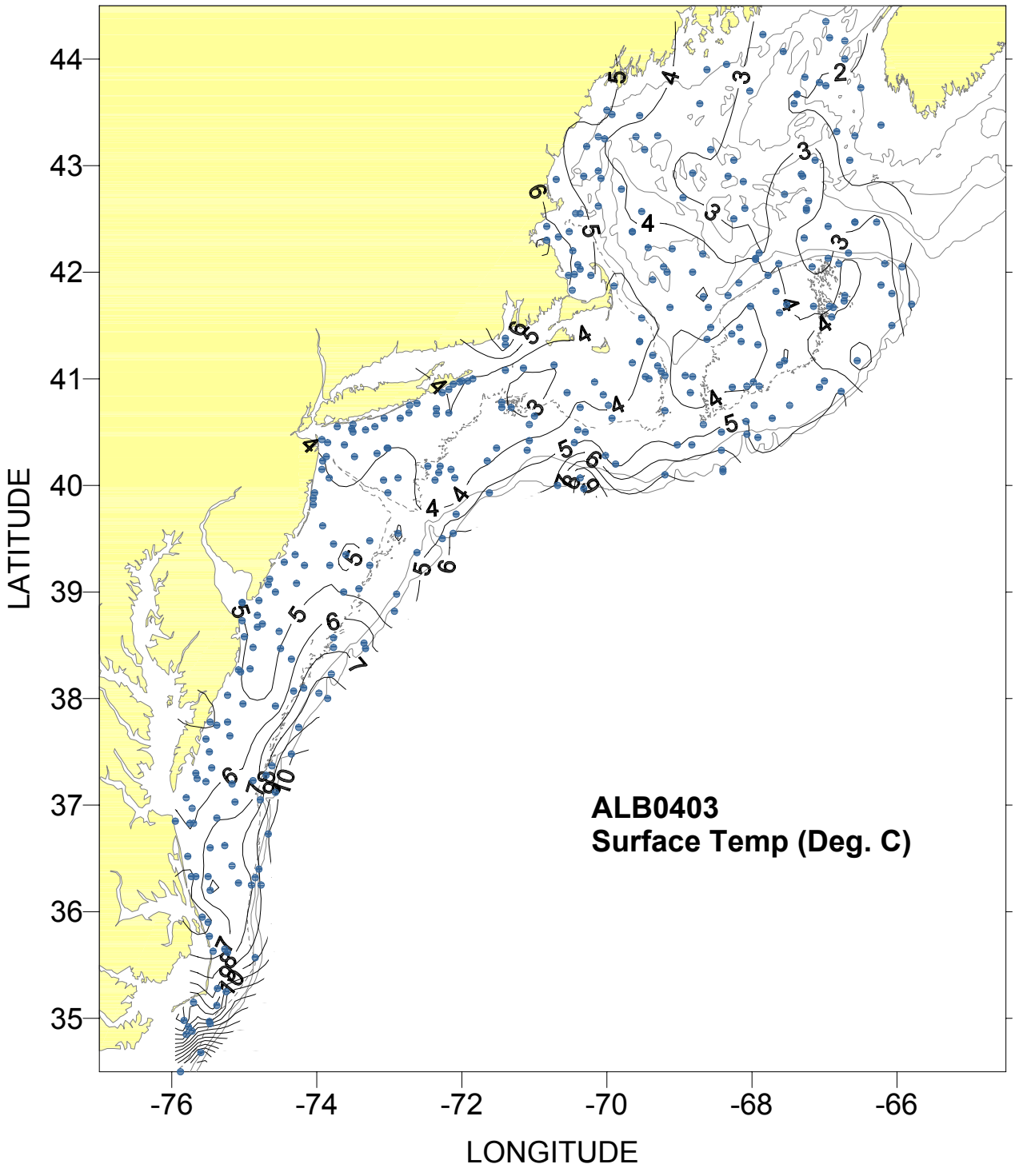
Areal average surface and bottom temperature/salinity and temperature/salinity anomalies for the 2004 Spring Bottom Trawl Survey ALB0403. (See Mountain, Taylor, and Bascunan, 2004)

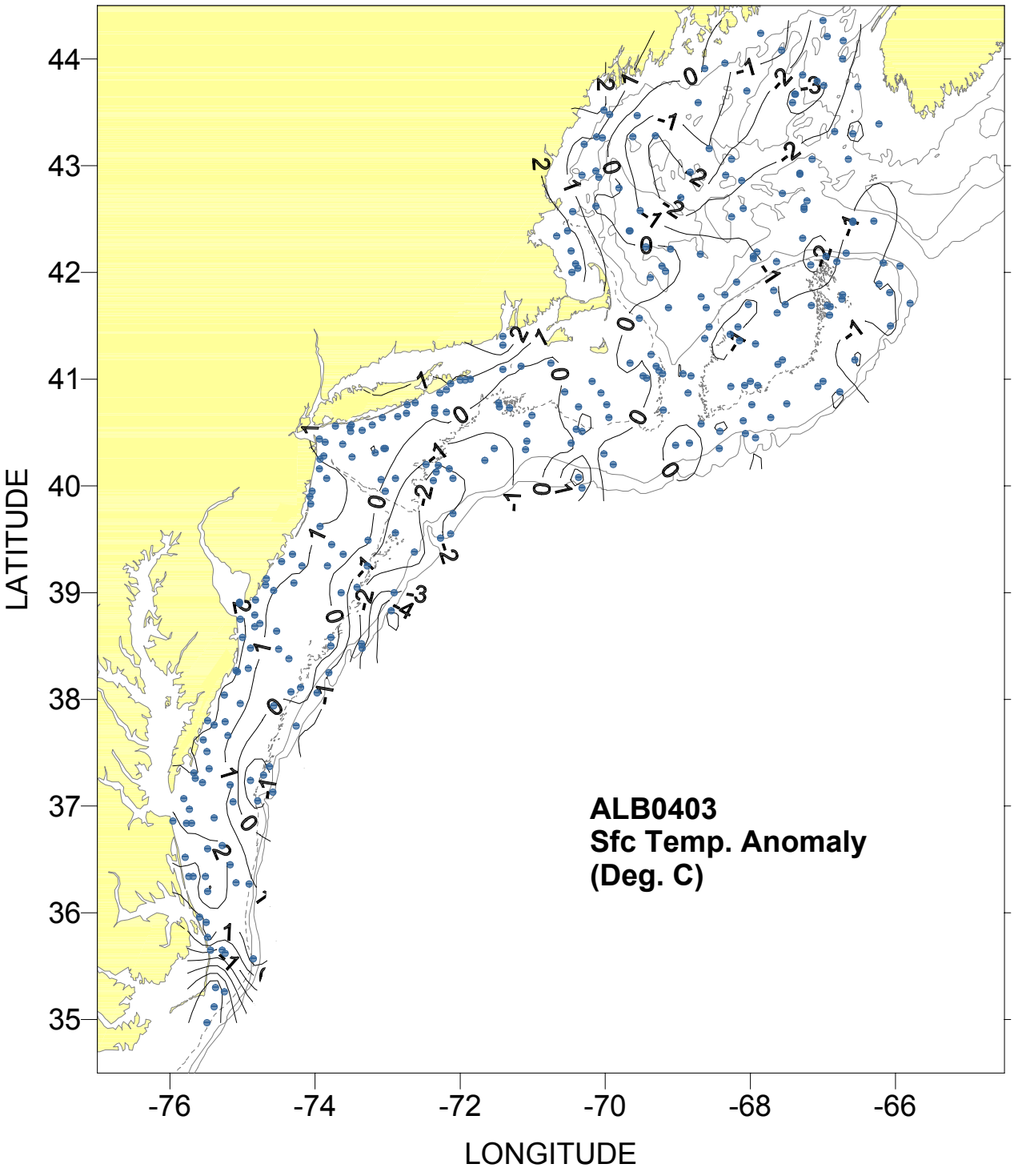
		SURFACE						BOTTOM						
CRUISE	CD	#obs	T / S	Anomaly	SDV1	SDV2	Flag	#obs	T / S	Anomaly	SDV1	SDV2	Flag	Purpose
Gulf of Maine East														
ALB0403	104	31	2.63	-1.97	0.16	1.03	0	25	6.23	-0.40	0.19	1.10	0	10
ALB0403	104	25	32.04	-0.45	0.13	0.40	0	25	33.85	-0.10	0.10	0.41	0	10
Gulf of Maine West														
ALB0403	104	44	3.86	-1.10	0.16	1.02	0	43	4.35	-0.72	0.14	0.74	0	10
ALB0403	104	43	32.40	-0.20	0.11	0.51	0	43	33.29	-0.08	0.08	0.30	0	10
Georges Bank														
ALB0403	94	52	4.25	-0.60	0.16	0.67	0	47	4.41	-0.75	0.18	0.93	0	10
ALB0403	94	45	32.93	-0.03	0.10	0.35	0	45	33.12	-0.03	0.11	0.38	0	10
MAB North														
ALB0403	84	60	4.16	-0.27	0.17	0.86	0	55	4.25	-0.80	0.20	1.42	0	10
ALB0403	84	58	33.02	0.14	0.11	0.46	0	55	33.14	-0.19	0.12	0.49	0	10
MAB South														
ALB0403	73	81	5.89	-0.14	0.15	1.40	0	71	5.61	-0.01	0.19	1.31	0	10
ALB0403	73	79	33.06	-0.01	0.11	0.82	0	71	33.46	0.09	0.11	0.62	0	10

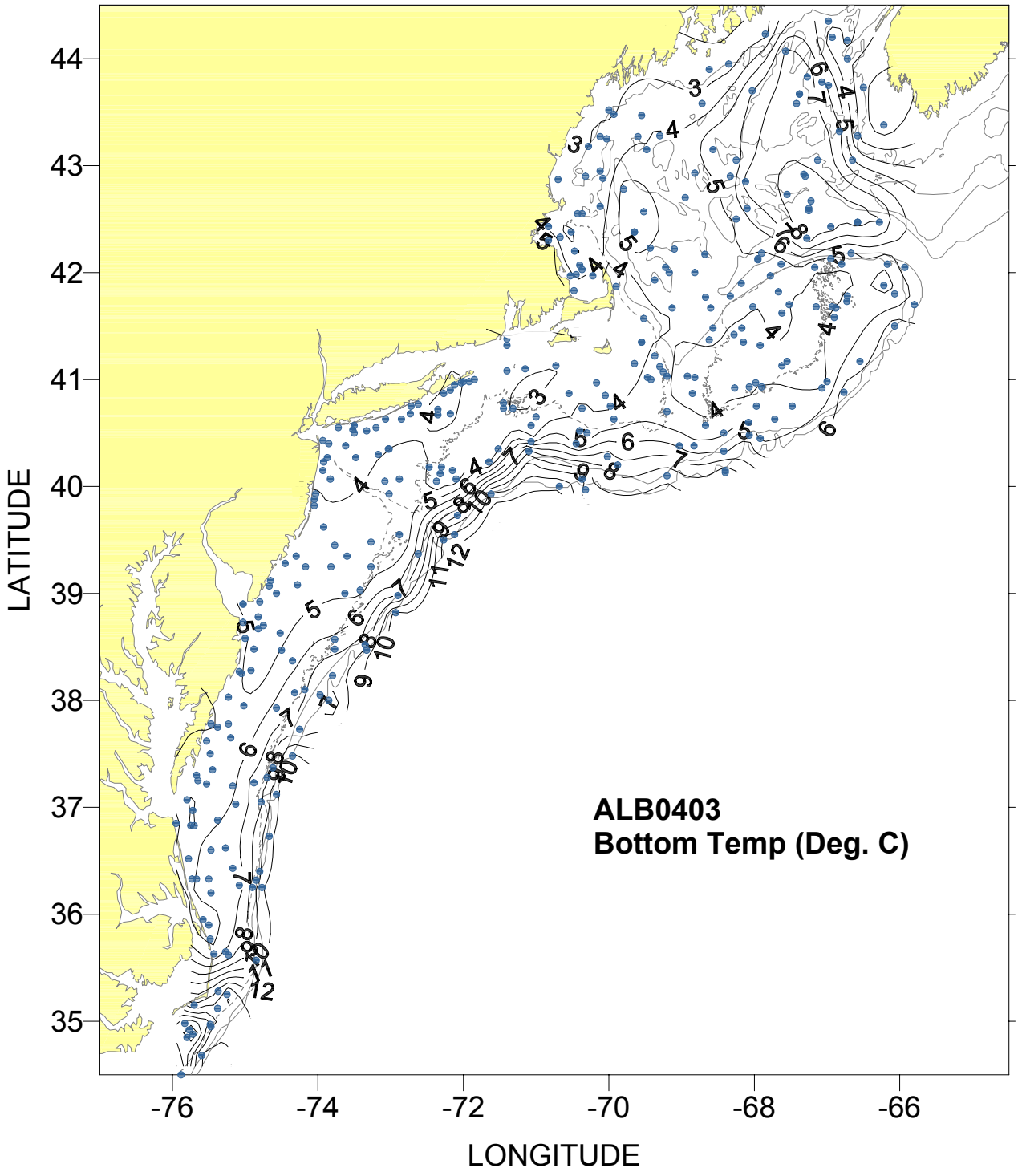
"CRUISE", the code name for a cruise: "CD", the calendar mid-data of all the stations within a region for a cruise: "# obs", the number of observations included in each average: "T/S", the areal average temp/salt: "Anomaly", the areal average temp/salt anomaly: "SDV1", the standard deviation associated with the average temp/salt anomaly: "SDV2", the standard deviation of the individual anomalies from which the average anomaly was derived.

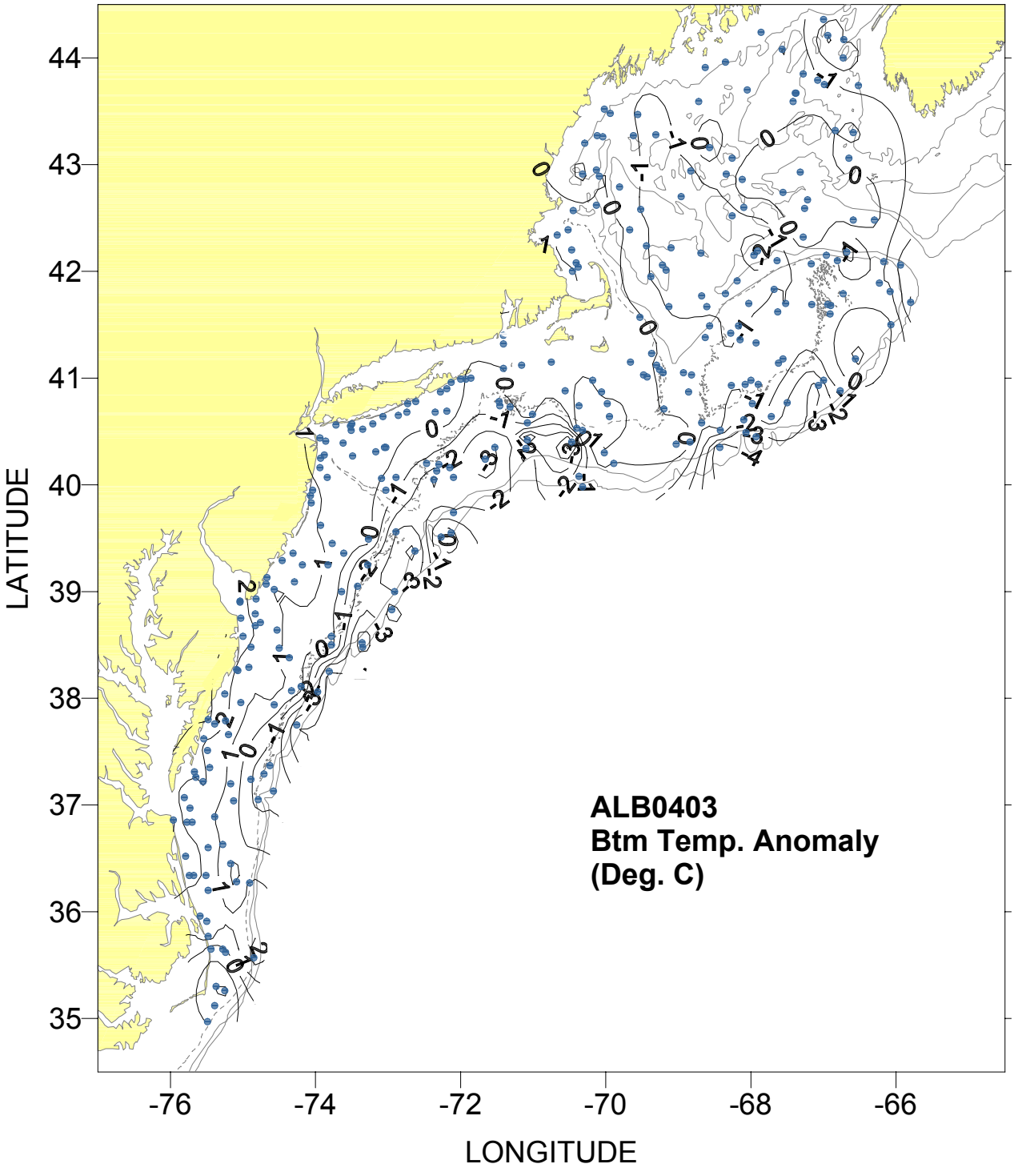
"Flag", a value of "1" indicates that a true areal average could not be calculated due to poor station coverage. The average values listed were derived from a simple average of the observations within the region.

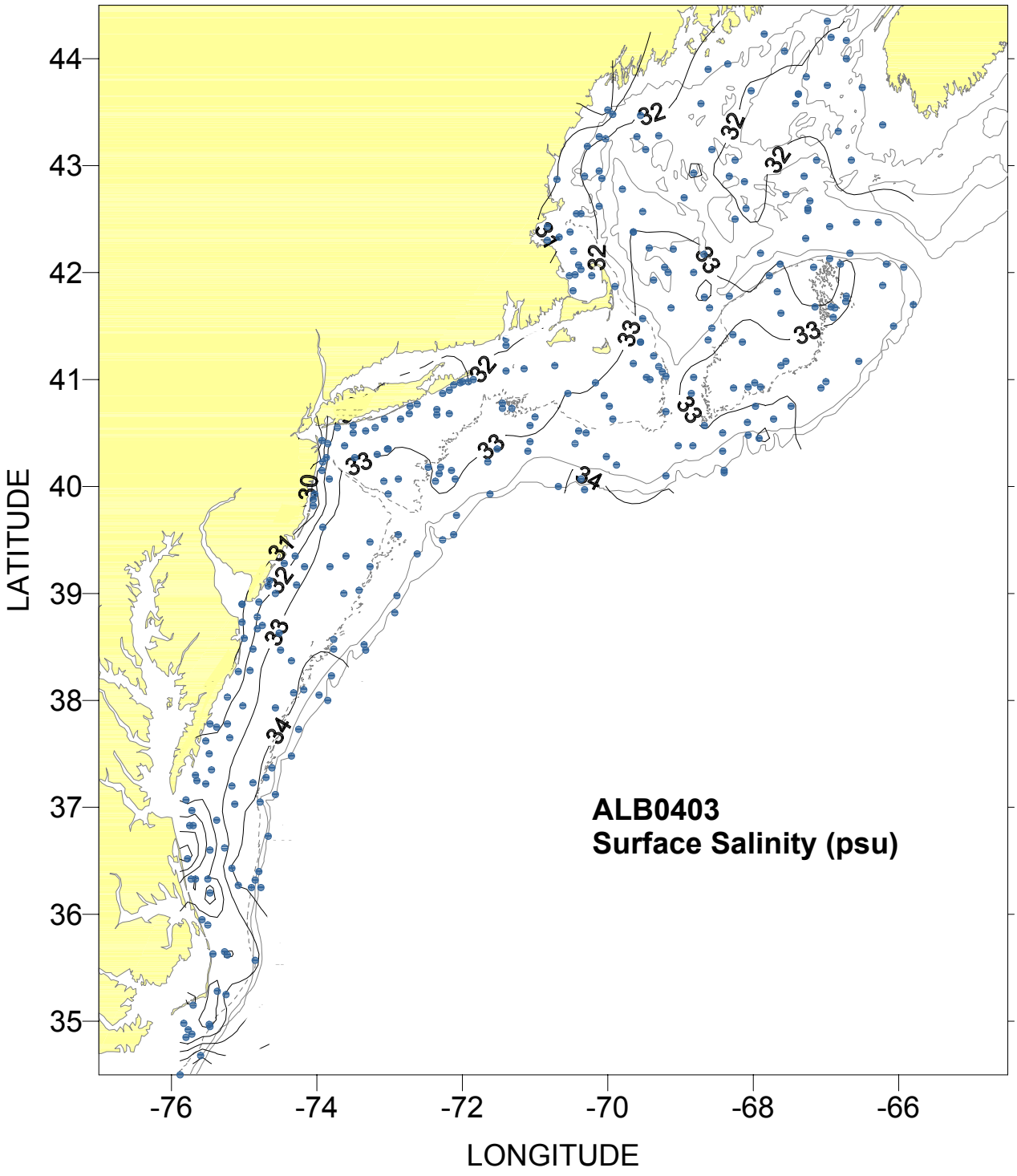
"Purpose", 2 digit code assigned by DMS to identify a unique NEFSC program/ survey.

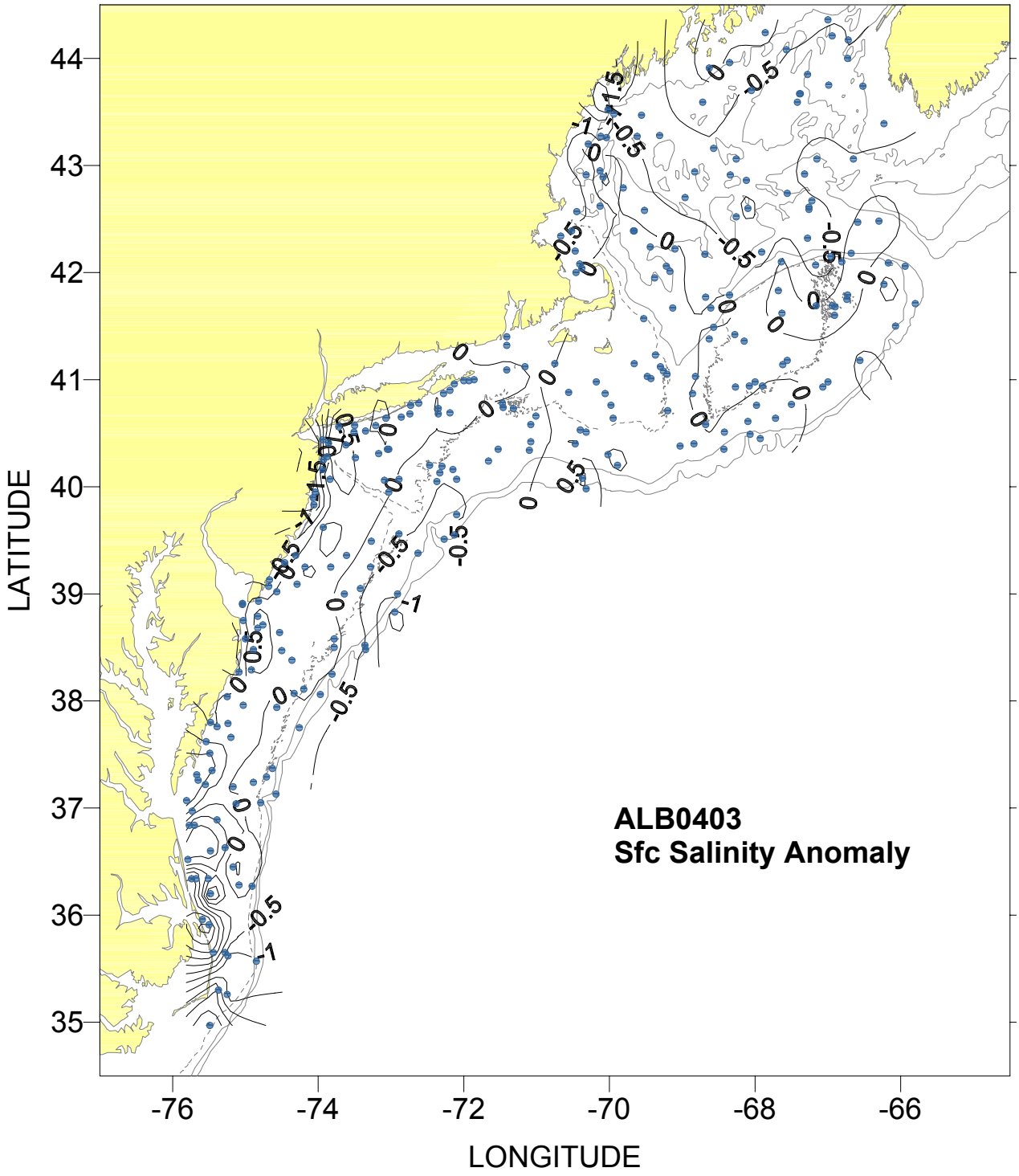

ALB0403
Surface Temp (Deg. C)
LATITUDE
LONGITUDE
44
43
42
41
40
39
38
37
36
35
-76
-74
-72
-70
-68
-66

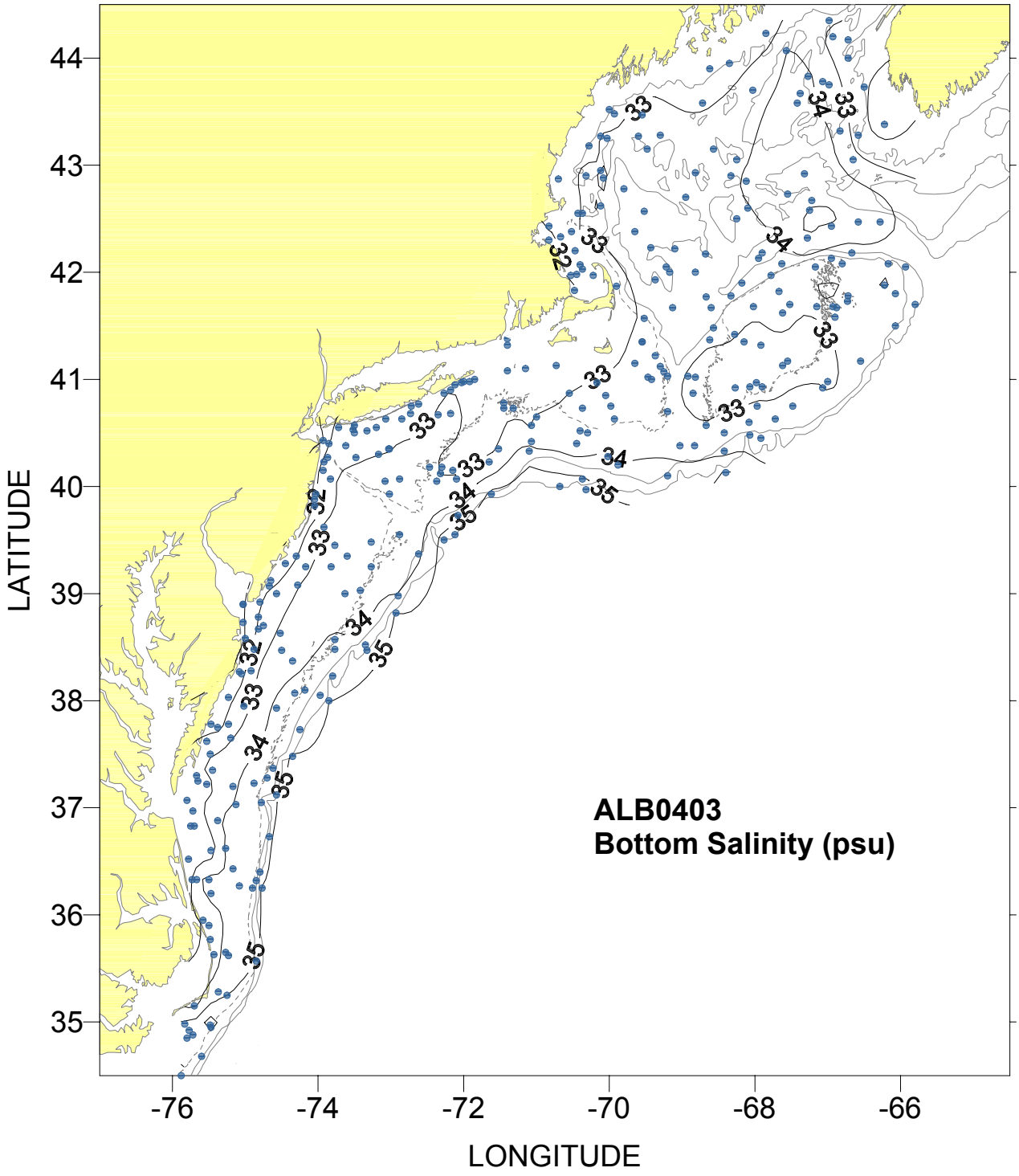

ALB0403
Sfc Temp. Anomaly
(Deg. C)
LATITUDE
LONGITUDE
44
43
42
41
40
39
38
37
36
35
-76
-74
-72
-70
-68
-66

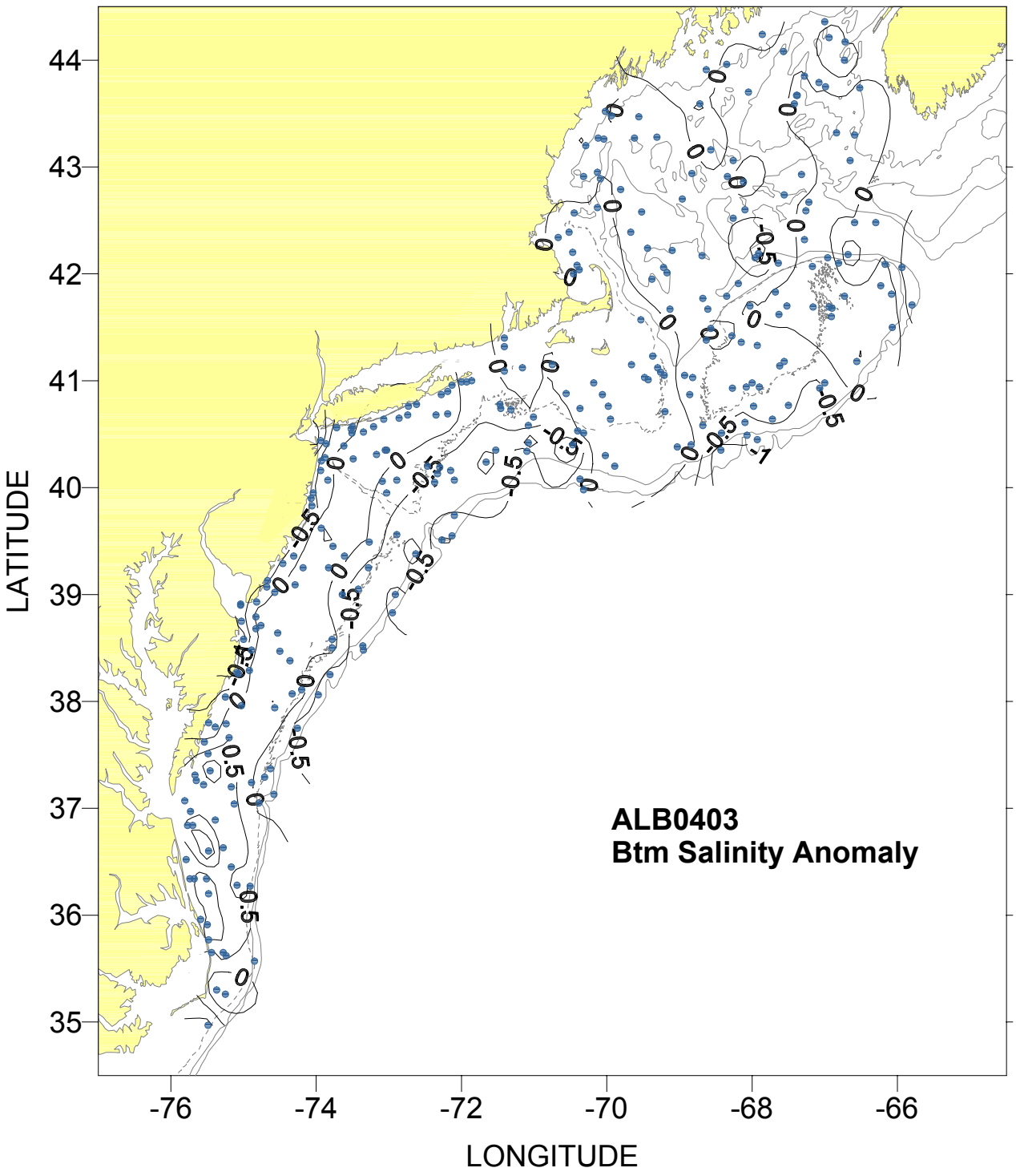

ALB0403
Bottom Temp (Deg. C)
LATITUDE
LONGITUDE
44
43
42
41
40
39
38
37
36
35
-76
-74
-72
-70
-68
-66


ALB0403
Btm Temp. Anomaly
(Deg. C)
LATITUDE
LONGITUDE
44
43
42
41
40
39
38
37
36
35
-76
-74
-72
-70
-68
-66


ALB0403
Surface Salinity (psu)
LATITUDE
LONGITUDE
44
43
42
41
40
39
38
37
36
35
-76
-74
-72
-70
-68
-66
30
31
32
33
34


ALB0403
Sfc Salinity Anomaly
LATITUDE
LONGITUDE
44
43
42
41
40
39
38
37
36
35
-76
-74
-72
-70
-68
-66


ALB0403
Bottom Salinity (psu)
LATITUDE
LONGITUDE
44
43
42
41
40
39
38
37
36
35
-76
-74
-72
-70
-68
-66


ALB0403
Btm Salinity Anomaly
LATITUDE
LONGITUDE
44
43
42
41
40
39
38
37
36
35
-76
-74
-72
-70
-68
-66

ALB0403 Spring Bottom Trawl Survey

03 March - 22 April, 2004

Cast #	Sta #	Lat	Long	Day	Mo	Yr	Time (GMT)	Btm Depth	Sfc Temp	Sfc Salt	Btm Temp	Btm Salt	Meters from Bottom
1	1	3859.7	7254.3	3	3	2004	14:07	94	4.18	33.13	6.43	34.02	6
2	2	3849.8	7256.8	3	3	2004	16:04	202	4.25	33.10	10.57	35.07	5
3	3	3828.6	7320.8	3	3	2004	20:42	124	5.81	33.54	8.79	34.51	9
4	4	3831.4	7321.8	3	3	2004	22:07	111	7.18	33.90	7.41	34.17	4
5	5	3834.6	7346.5	4	3	2004	0:41	57	6.87	33.95	6.17	34.14	6
6	6	3829.7	7346.9	4	3	2004	2:10	62	6.74	33.91	6.64	34.12	6
7	7	3814.8	7348.6	4	3	2004	4:10	107	7.95	34.25	8.17	34.48	5
8	8	3800.8	7351.7	4	3	2004	6:20	465	8.40	34.33	5.76	35.01	7
9	9	3803.6	7358.1	4	3	2004	8:25	113	8.81	34.46	8.28	34.50	7
10	10	3806.6	7411.7	4	3	2004	10:13	58	7.27	34.22	6.70	34.25	8
11	11	3804.0	7419.6	4	3	2004	11:36	48	6.40	33.83	6.83	34.28	6
12	12	3756.6	7434.1	4	3	2004	13:31	45	5.30	33.47	6.28	34.22	6
13	13	3744.9	7415.8	4	3	2004	15:56	102	8.69	34.49	7.20	34.35	5
14	14	3729.2	7421.3	4	3	2004	18:15	244	9.98	34.74	10.41	35.10	7
15	15	3722.2	7437.7	4	3	2004	21:10	75	8.60	34.46	8.02	34.51	6
16	16	3717.1	7442.5	4	3	2004	22:37	62	7.95	34.31	7.67	34.46	7
17	17	3707.9	7434.9	5	3	2004	0:22	109	9.84	34.72	10.03	34.99	6
18	18	3703.2	7447.2	5	3	2004	2:17	66	7.53	34.14	7.66	34.46	5
19	19	3714.3	7453.3	5	3	2004	4:16	44	6.22	33.71	7.49	34.48	6
20	20	3712.2	7510.3	5	3	2004	6:10	30	6.50	33.10	5.80	33.85	6
21	21	3702.4	7508.0	5	3	2004	7:46	38	6.33	33.81	6.16	34.04	6
22	22	3644.7	7440.5	5	3	2004	11:04	108	10.13	34.88	9.71	34.93	4
23	23	3624.3	7448.6	5	3	2004	13:49	87	8.96	34.54	8.90	34.74	6
24	24	3626.9	7510.4	5	3	2004	16:28	30	7.71	34.15	6.43	34.16	5
25	25	3616.5	7505.2	5	3	2004	18:19	40	7.52	34.08	6.45	34.13	7
26	26	3615.9	7454.6	5	3	2004	19:46	54	7.64	34.04	8.43	34.69	7
27	27	3619.5	7451.6	5	3	2004	21:22	75	8.50	34.29	8.32	34.64	7
28	28	3615.3	7446.7	5	3	2004	23:19	295	9.33	34.62	10.01	35.06	8
29	29	3612.1	7528.6	6	3	2004	4:18	27	8.48	29.77	6.66	34.30	5
30	30	3557.5	7535.5	6	3	2004	6:24	17	5.46	32.65	5.35	33.05	6
31	31	3554.5	7530.2	6	3	2004	7:40	22	5.59	32.64	5.48	33.31	6
32	32	3546.3	7529.0	6	3	2004	9:10	22	6.40	99.99	5.92	33.32	7
33	33	3538.9	7526.2	6	3	2004	10:41	18	6.62	32.89	6.12	33.41	5
34	34	3539.1	7516.7	6	3	2004	12:19	30	6.75	31.98	7.19	34.48	5
35	35	3537.2	7514.5	6	3	2004	13:31	30	7.12	31.74	7.36	34.52	5

Cast #	Sta #	Lat	Long	Day	Mo	Yr	Time (GMT)	Btm Depth	Sfc Temp	Sfc Salt	Btm Temp	Btm Salt	Meters from Bottom
36	36	3517.7	7522.4	6	3	2004	16:28	19	8.51	31.49	12.13	34.67	5
37	37	3515.7	7515.0	6	3	2004	17:58	25	12.29	33.51	14.38	34.98	7
38	38	3507.0	7523.4	6	3	2004	20:01	15	9.65	99.99	13.03	99.99	7
39	39	3509.7	7542.2	7	3	2004	2:05	15	11.64	33.42	11.75	33.53	3
40	40	3459.6	7550.0	7	3	2004	4:13	20	9.61	32.07	16.65	35.32	5
41	41	3455.0	7546.7	7	3	2004	5:40	25	11.93	32.77	17.87	35.63	6
42	42	3453.8	7543.1	7	3	2004	7:31	31	13.66	31.71	18.75	35.91	7
43	43	3451.8	7548.7	7	3	2004	9:16	28	11.23	32.08	16.78	35.60	6
44	44	3430.1	7553.2	7	3	2004	12:03	65	21.25	36.32	18.50	36.29	6
45	45	3429.9	7547.5	7	3	2004	13:34	135	22.31	99.99	14.71	35.92	6
46	46	3441.4	7536.3	7	3	2004	15:37	152	21.76	36.30	12.47	35.60	5
47	47	3457.3	7528.4	7	3	2004	18:42	57	13.59	31.77	13.44	35.76	7
48	48	3458.1	7529.1	7	3	2004	20:04	49	11.58	30.96	15.73	36.87	6
49	49	3534.2	7451.0	8	3	2004	1:02	61	9.67	32.79	9.49	34.95	5
50	50	3620.1	7530.7	8	3	2004	10:37	25	7.60	32.11	6.62	34.27	4
51	51	3620.6	7540.6	8	3	2004	12:18	22	5.89	32.19	6.07	33.85	5
52	52	3620.4	7544.4	8	3	2004	13:43	20	5.77	32.21	5.79	32.59	5
53	53	3631.2	7547.6	8	3	2004	15:30	16	6.44	27.76	5.49	32.34	5
54	54	3636.0	7528.5	8	3	2004	17:46	14	7.45	31.44	6.89	32.40	5
55	55	3637.6	7516.5	8	3	2004	19:17	31	7.66	32.48	6.44	34.14	7
56	56	3653.1	7523.6	8	3	2004	21:32	29	6.99	32.55	5.90	33.99	6
57	57	3650.2	7542.1	8	3	2004	23:37	18	5.95	30.00	5.01	31.91	4
58	58	3650.6	7545.9	9	3	2004	0:55	18	5.77	30.49	4.78	32.29	5
59	59	3651.8	7557.4	9	3	2004	2:52	8	6.66	99.99	6.48	99.99	4
60	60	3658.0	7543.7	9	3	2004	4:46	17	5.91	31.17	4.94	33.05	7
61	61	3704.2	7548.7	9	3	2004	6:07	9	4.90	32.41	4.90	32.42	6
62	62	3713.4	7532.7	9	3	2004	8:07	19	5.69	32.08	5.74	32.39	6
63	63	3715.4	7539.0	9	3	2004	9:23	13	5.11	32.87	5.11	32.91	6
64	64	3718.3	7540.1	9	3	2004	10:31	10	6.24	32.63	6.03	32.79	6
65	65	3721.2	7527.6	9	3	2004	12:15	25	5.46	32.69	5.33	33.60	4
66	66	3730.4	7529.2	9	3	2004	13:49	15	5.13	32.83	5.12	32.84	5
67	67	4100.2	7151.4	16	3	2004	2:22	20	3.88	31.86	3.61	32.21	7
68	68	4059.1	7155.6	16	3	2004	3:24	20	4.00	31.95	3.80	32.51	6
69	69	4059.2	7200.0	16	3	2004	4:25	17	4.03	32.37	3.88	32.50	6
70	70	4058.3	7202.7	16	3	2004	5:26	13	4.10	32.45	4.10	32.68	5
71	71	4057.3	7207.7	16	3	2004	6:30	13	4.13	32.78	4.14	32.81	5
72	72	4054.2	7211.5	16	3	2004	7:37	23	4.13	32.51	4.15	33.07	4
73	73	4052.2	7216.9	16	3	2004	8:45	22	3.91	32.37	3.97	32.88	5

Cast #	Sta #	Lat	Long	Day	Mo	Yr	Time (GMT)	Btm Depth	Sfc Temp	Sfc Salt	Btm Temp	Btm Salt	Meters from Bottom
74	74	4041.6	7211.2	16	3	2004	10:53	45	4.07	32.77	4.32	33.22	5
75	75	4043.5	7221.2	16	3	2004	13:13	45	3.65	32.47	4.21	33.10	12
76	76	4040.9	7221.2	16	3	2004	13:43	40	3.79	32.54	4.30	33.14	5
77	77	4046.7	7237.2	16	3	2004	15:40	19	3.75	32.36	3.75	32.39	6
78	78	4045.3	7243.8	16	3	2004	16:45	14	3.77	32.49	3.77	32.49	6
79	79	4041.0	7244.6	16	3	2004	19:10	30	3.71	32.57	3.78	32.74	5
80	80	4038.8	7251.3	16	3	2004	21:00	30	3.59	32.72	3.61	32.74	6
81	81	4038.2	7304.3	17	3	2004	7:20	13	3.39	32.53	3.39	32.56	5
82	82	4033.9	7312.3	17	3	2004	9:10	23	3.34	32.69	3.35	32.70	6
83	83	4021.2	7301.5	17	3	2004	12:16	41	3.99	32.98	4.01	32.99	5
84	84	4031.1	7320.7	17	3	2004	15:21	22	3.18	32.63	3.19	32.64	6
85	85	4030.8	7330.8	17	3	2004	17:15	18	3.33	32.44	3.33	32.45	6
86	86	4032.9	7331.2	17	3	2004	18:19	15	3.57	99.99	3.58	32.33	7
87	87	4034.1	7330.1	17	3	2004	20:00	12	3.21	32.40	3.21	32.41	6
88	88	4033.8	7343.3	17	3	2004	21:27	13	3.47	32.37	3.49	32.40	6
89	89	4026.4	7356.2	17	3	2004	23:28	17	3.80	29.69	3.79	30.84	7
90	90	4024.7	7351.3	18	3	2004	0:46	19	3.64	31.95	3.71	32.12	6
91	91	4023.6	7337.4	18	3	2004	3:40	22	3.22	32.65	3.23	32.66	6
92	92	4018.5	7310.1	18	3	2004	6:28	39	3.87	32.95	3.90	32.96	7
93	93	4021.0	7302.7	18	3	2004	7:49	40	3.81	32.85	3.93	32.93	5
94	94	4004.0	7253.3	18	3	2004	10:22	52	4.50	33.34	4.82	33.47	5
95	95	3956.8	7301.6	18	3	2004	12:33	53	4.77	33.48	4.86	33.54	6
96	96	4003.3	7305.4	18	3	2004	14:01	46	4.75	33.50	4.79	33.52	6
97	97	4016.1	7329.2	18	3	2004	16:46	29	3.49	32.88	3.17	32.89	6
98	98	4016.7	7352.5	18	3	2004	19:00	20	3.66	32.11	3.71	32.37	6
99	99	4014.7	7355.5	18	3	2004	20:10	19	4.19	29.89	3.56	32.16	6
100	100	4009.7	7356.2	18	3	2004	21:43	19	4.11	31.80	3.61	32.31	6
101	101	4004.3	7350.2	18	3	2004	23:16	29	4.03	32.61	3.67	32.86	6
102	102	3956.9	7402.2	19	3	2004	1:04	22	4.16	30.72	4.10	31.86	7
103	103	3953.7	7403.9	19	3	2004	2:07	15	4.09	30.01	4.10	31.60	6
104	104	3949.7	7403.5	19	3	2004	3:16	15	4.32	29.98	4.14	31.18	6
105	105	3937.0	7355.5	19	3	2004	5:18	26	4.23	33.11	4.12	33.22	5
106	106	3927.1	7346.1	19	3	2004	7:07	30	4.55	99.99	4.52	33.49	5
107	107	3921.5	7336.7	19	3	2004	8:37	40	5.27	33.61	5.05	33.65	5
108	108	3915.2	7349.6	19	3	2004	11:18	40	4.89	33.58	4.73	33.60	6
109	109	3917.3	7427.8	19	3	2004	19:51	12	4.49	31.61	4.49	31.61	6
110	110	3921.8	7418.6	19	3	2004	21:17	13	4.22	31.89	4.23	31.90	4
111	111	3915.2	7410.7	20	3	2004	0:06	26	4.32	32.75	4.35	32.77	5

Cast #	Sta #	Lat	Long	Day	Mo	Yr	Time (GMT)	Btm Depth	Sfc Temp	Sfc Salt	Btm Temp	Btm Salt	Meters from Bottom
112	112	3905.4	7417.5	20	3	2004	2:17	30	4.50	32.88	4.54	32.97	7
113	113	3900.9	7434.0	20	3	2004	4:40	15	4.47	32.34	4.52	32.36	5
114	114	3904.3	7440.5	20	3	2004	6:11	14	4.53	31.36	4.58	31.98	6
115	115	3907.6	7439.9	20	3	2004	7:25	11	4.49	31.50	4.51	31.55	6
116	116	3855.8	7448.9	20	3	2004	9:40	11	4.58	31.87	4.58	31.88	7
117	117	3847.5	7449.7	20	3	2004	11:31	18	4.18	32.10	4.18	32.11	5
118	118	3854.5	7502.5	20	3	2004	14:15	13	4.91	30.85	4.89	30.87	6
119	119	3854.1	7502.3	20	3	2004	15:40	10	5.12	30.87	5.12	30.86	5
120	120	3844.7	7502.0	20	3	2004	16:49	12	5.10	30.88	5.13	30.84	6
121	121	3840.6	7449.6	20	3	2004	18:30	15	4.45	32.17	4.42	32.19	6
122	122	3842.3	7445.7	20	3	2004	20:28	13	4.47	32.26	4.47	32.26	5
123	123	3835.0	7500.2	20	3	2004	22:30	13	5.31	30.88	5.31	30.88	7
124	124	3829.0	7453.3	21	3	2004	1:07	16	4.55	32.33	4.51	32.36	6
125	125	3817.4	7455.0	21	3	2004	2:58	24	4.46	32.62	4.45	32.63	6
126	126	3816.3	7505.6	21	3	2004	4:49	12	5.44	31.16	5.44	31.19	6
127	127	3815.6	7503.9	21	3	2004	6:00	15	5.02	99.99	5.02	31.74	5
128	128	3802.3	7514.9	21	3	2004	8:18	14	5.37	31.78	5.36	31.79	6
129	129	3757.3	7501.9	21	3	2004	9:45	23	5.17	32.49	5.08	32.65	4
130	130	3747.5	7514.2	21	3	2004	11:48	18	5.26	32.19	5.26	32.26	6
131	131	3739.6	7512.0	21	3	2004	13:21	32	5.20	32.56	5.02	32.93	6
132	132	3737.4	7532.4	21	3	2004	14:51	16	5.47	32.21	5.45	32.22	5
133	133	3745.7	7523.6	21	3	2004	16:15	14	5.67	31.69	5.64	31.70	6
134	134	3747.8	7528.6	21	3	2004	17:19	10	6.46	31.73	6.44	31.74	7
135	135	3822.8	7421.4	22	3	2004	0:34	42	5.68	33.75	5.65	33.74	4
136	136	3828.3	7430.2	22	3	2004	2:13	38	5.04	33.41	5.04	33.45	5
137	137	3838.1	7431.6	22	3	2004	6:58	30	4.68	33.06	4.74	33.17	4
138	138	3900.0	7338.5	22	3	2004	14:19	52	4.87	33.32	4.87	33.33	4
139	139	3902.8	7325.2	22	3	2004	16:40	57	4.70	33.32	4.68	33.32	4
140	140	3906.3	7315.1	22	3	2004	18:30	65	4.55	33.26	4.61	33.30	4
141	141	3915.1	7316.7	22	3	2004	20:19	56	4.76	33.32	4.71	33.38	6
142	142	3929.5	7316.1	22	3	2004	22:15	40	4.91	33.46	4.91	33.45	5
143	143	3933.6	7253.2	23	3	2004	0:30	60	3.82	33.07	3.84	33.07	3
144	144	3922.7	7237.9	23	3	2004	2:39	112	4.85	33.27	6.45	33.77	6
145	999	3930.8	7216.4	23	3	2004	5:30	261	5.05	33.36	11.54	35.44	6
146	145	3933.0	7207.7	23	3	2004	7:04	205	6.48	33.71	11.30	35.36	5
147	146	3944.5	7205.7	23	3	2004	9:46	124	4.37	33.16	8.92	34.55	5
148	147	4003.0	7222.0	23	3	2004	12:41	70	3.03	32.92	3.02	32.93	5
149	148	4011.9	7228.2	23	3	2004	14:15	65	3.87	33.07	4.08	33.15	5

Cast #	Sta #	Lat	Long	Day	Mo	Yr	Time (GMT)	Btm Depth	Sfc Temp	Sfc Salt	Btm Temp	Btm Salt	Meters from Bottom
150	149	4007.8	7219.9	23	3	2004	15:36	72	3.33	32.94	3.62	33.00	5
151	150	4011.5	7218.0	23	3	2004	16:49	66	3.28	32.92	3.30	32.95	5
152	151	4009.6	7209.2	23	3	2004	19:15	67	3.46	32.94	3.34	32.96	5
153	152	4004.0	7206.1	23	3	2004	20:40	73	3.35	32.97	3.22	32.97	5
154	153	3956.0	7137.3	23	3	2004	23:34	127	5.39	33.48	11.47	35.31	4
155	154	4014.1	7139.7	24	3	2004	2:55	85	3.82	33.06	3.80	33.06	5
156	155	4021.1	7131.7	24	3	2004	5:15	80	3.76	33.05	3.77	33.05	6
157	156	4044.2	7127.6	24	3	2004	9:13	63	3.11	32.94	3.13	32.95	6
158	157	4047.0	7127.9	24	3	2004	10:55	59	3.14	32.94	3.15	32.95	6
159	158	4044.0	7119.2	24	3	2004	12:40	60	2.95	32.90	2.93	32.91	5
160	159	4039.6	7100.5	24	3	2004	14:43	67	3.08	32.92	3.36	33.02	5
161	160	4034.9	7104.8	24	3	2004	15:58	72	3.13	32.88	3.34	32.99	6
162	161	4025.1	7104.8	24	3	2004	17:34	84	4.25	33.08	3.86	33.08	5
163	161	4020.4	7106.2	24	3	2004	18:19	90	4.61	33.07	9.51	34.74	5
164	162	4006.2	7104.7	24	3	2004	20:34	165	5.42	33.36	11.72	35.46	7
165	163	4000.8	7041.1	24	3	2004	23:37	227	5.99	33.52	11.94	35.55	4
166	164	3958.6	7019.4	25	3	2004	2:22	350	10.28	34.95	8.99	35.24	4
167	165	4004.6	7022.3	25	3	2004	4:33	164	9.61	34.77	10.99	35.23	5
168	166	4012.2	6953.5	25	3	2004	7:55	92	4.56	33.06	7.24	34.04	6
169	167	4017.9	7001.1	25	3	2004	10:00	87	4.85	33.06	7.68	34.18	5
170	168	4105.5	7124.4	30	3	2004	1:01	37	3.38	32.84	3.34	32.87	6
171	169	4106.9	7109.7	30	3	2004	3:39	35	3.10	32.76	3.10	32.76	8
172	170	4108.8	7044.9	30	3	2004	6:22	36	2.92	32.64	2.93	32.64	7
173	171	4052.8	7033.8	30	3	2004	8:55	53	3.57	33.00	3.59	33.01	7
174	172	4058.7	7010.9	30	3	2004	11:36	25	3.58	32.99	3.58	33.07	6
175	173	4051.9	7003.7	30	3	2004	13:01	22	3.62	33.12	3.62	33.15	6
176	174	4044.2	7022.1	30	3	2004	15:06	47	4.22	99.99	4.20	33.21	6
177	175	4031.6	7024.1	30	3	2004	17:13	64	4.41	33.11	4.23	33.13	6
178	176	4024.2	7027.9	30	3	2004	19:07	80	4.64	33.09	4.74	33.23	4
179	177	4030.4	7018.9	30	3	2004	21:19	64	4.57	33.07	4.13	33.10	7
180	178	4038.4	6956.7	30	3	2004	23:40	53	4.23	33.07	4.29	33.23	4
181	179	4045.8	6959.0	31	3	2004	1:37	34	3.91	33.21	3.91	33.21	9
182	180	4109.1	6939.5	31	3	2004	5:16	19	3.63	33.11	3.68	33.14	6
183	181	4121.0	6933.5	31	3	2004	9:07	29	3.67	33.17	3.67	33.22	6
184	182	4121.1	6933.5	31	3	2004	9:16	30	3.67	33.19	3.67	33.25	5
185	183	4113.8	6922.2	31	3	2004	11:28	50	4.26	33.28	4.22	33.31	5
186	184	4101.9	6928.9	31	3	2004	13:52	32	4.23	33.27	4.21	33.29	4
187	185	4100.8	6925.7	31	3	2004	15:34	41	4.26	33.25	4.24	33.30	7

Cast #	Sta #	Lat	Long	Day	Mo	Yr	Time (GMT)	Btm Depth	Sfc Temp	Sfc Salt	Btm Temp	Btm Salt	Meters from Bottom
188	186	4107.0	6918.2	31	3	2004	17:25	54	4.15	33.19	4.16	33.19	5
189	187	4104.9	6915.5	31	3	2004	19:04	57	4.18	33.21	4.18	33.21	6
190	188	4102.9	6912.7	31	3	2004	20:34	59	4.08	33.13	4.08	33.16	6
191	189	4102.7	6855.6	31	3	2004	22:49	79	3.77	99.99	3.76	32.97	5
192	190	4101.7	6849.4	31	3	2004	23:37	63	3.72	32.92	3.68	32.93	5
193	191	4052.1	6851.3	1	4	2004	3:13	65	3.81	32.88	3.78	32.89	8
194	192	4042.4	6912.2	1	4	2004	5:40	62	4.20	33.14	4.18	33.16	6
195	193	4034.5	6840.7	1	4	2004	8:49	66	4.25	32.92	4.16	33.02	5
196	194	4023.8	6850.1	1	4	2004	10:43	84	5.55	33.46	5.33	33.46	9
197	195	4023.0	6902.0	1	4	2004	12:16	85	4.75	33.24	5.86	33.57	9
198	196	4006.1	6912.0	1	4	2004	14:45	124	7.16	33.94	8.76	34.47	8
199	197	4009.6	6824.1	1	4	2004	19:46	298	6.83	33.72	11.18	35.21	98
200	197	4008.7	6824.7	1	4	2004	20:13	322	6.88	33.52	8.82	35.21	4
201	198	4020.9	6825.5	1	4	2004	22:55	114	6.03	33.37	5.69	33.62	5
202	199	4030.7	6825.2	2	4	2004	0:53	92	5.28	33.25	4.94	33.38	9
203	200	4036.4	6805.9	2	4	2004	3:20	91	5.20	33.16	4.77	33.29	8
204	201	4029.2	6804.2	2	4	2004	5:20	128	5.08	33.20	5.96	33.66	6
205	202	4027.2	6755.8	2	4	2004	7:25	127	4.37	32.91	4.75	33.32	8
206	203	4038.3	6743.1	2	4	2004	10:31	74	4.51	32.99	4.37	33.16	7
207	204	4045.9	6729.9	2	4	2004	12:45	86	4.74	33.07	4.25	33.13	8
208	205	4045.4	6758.6	2	4	2004	16:12	72	4.47	33.04	4.37	33.10	6
209	206	4055.5	6816.0	2	4	2004	18:37	45	3.90	32.72	3.79	32.73	6
210	207	4056.2	6804.5	2	4	2004	20:25	43	3.80	32.75	3.78	32.75	8
211	208	4058.8	6759.9	2	4	2004	21:38	53	4.03	32.77	3.96	32.78	7
212	209	4056.2	6754.2	2	4	2004	23:00	58	4.44	32.80	4.00	32.84	8
213	210	4108.4	6737.1	3	4	2004	1:28	54	4.15	32.91	3.99	32.90	8
214	211	4110.8	6733.6	3	4	2004	2:43	42	3.96	32.90	3.98	32.90	9
215	212	4055.9	6704.2	3	4	2004	5:55	81	4.54	32.60	3.94	33.07	7
216	213	4059.0	6700.1	3	4	2004	7:13	73	4.12	32.65	3.95	32.79	4
217	214	4053.0	6646.3	3	4	2004	9:30	97	5.20	99.99	6.61	99.99	6
218	215	4110.9	6633.5	3	4	2004	12:10	91	2.42	32.17	5.59	33.41	8
220	217	4130.2	6604.3	3	4	2004	17:31	112	3.62	32.37	6.67	33.95	7
221	218	4142.6	6548.1	3	4	2004	20:04	170	1.75	31.98	5.21	33.56	5
222	219	4148.6	6604.5	3	4	2004	22:07	94	4.01	99.99	3.97	33.10	7
223	220	4153.4	6613.6	4	4	2004	0:07	82	3.44	32.28	3.75	32.95	7
224	221	4203.3	6556.2	4	4	2004	2:40	197	2.03	32.17	5.65	33.70	9
225	222	4205.6	6610.0	4	4	2004	5:28	95	3.70	32.77	4.00	33.08	8
226	223	4228.6	6617.8	4	4	2004	9:03	244	3.30	32.56	8.16	34.63	5

Cast #	Sta #	Lat	Long	Day	Mo	Yr	Time (GMT)	Btm Depth	Sfc Temp	Sfc Salt	Btm Temp	Btm Salt	Meters from Bottom
227	224	4228.1	6635.5	4	4	2004	11:10	283	2.61	32.31	8.13	34.55	83
228	224	4228.7	6635.2	4	4	2004	11:34	280	2.65	99.99	8.59	34.98	6
229	225	4226.6	6657.0	4	4	2004	14:07	347	2.72	32.33	8.52	35.07	8
230	226	4219.3	6717.0	4	4	2004	16:55	288	2.73	32.14	8.69	35.06	5
231	228	4203.9	6710.1	4	4	2004	20:42	49	2.74	32.26	4.09	33.12	6
232	229	4208.7	6657.5	4	4	2004	22:51	80	2.48	32.18	4.66	33.40	5
233	230	4205.7	6648.4	5	4	2004	1:15	69	4.11	33.10	4.12	33.12	5
234	231	4211.0	6640.7	5	4	2004	2:39	204	3.90	32.89	4.70	33.46	8
235	232	4147.3	6643.5	5	4	2004	6:07	65	4.08	33.07	4.09	33.07	7
236	233	4144.8	6644.3	5	4	2004	7:22	64	4.11	33.08	4.11	33.07	10
237	234	4135.9	6654.8	5	4	2004	9:03	62	4.06	33.07	4.06	33.07	7
238	235	4140.9	6653.8	5	4	2004	10:19	55	4.00	33.04	4.00	33.04	6
239	236	4141.2	6656.3	5	4	2004	11:34	63	3.98	33.03	3.98	33.03	8
240	237	4141.4	6709.7	5	4	2004	13:10	58	3.98	32.99	3.98	33.04	7
241	238	4142.2	6731.0	5	4	2004	15:36	51	3.97	99.99	3.97	33.05	9
242	239	4137.4	6737.9	5	4	2004	17:43	52	4.22	33.15	4.23	33.13	9
243	240	4149.6	6740.8	5	4	2004	20:04	33	4.17	33.15	4.18	33.15	6
244	241	4158.0	6747.9	5	4	2004	21:55	69	4.02	33.18	4.17	33.21	7
245	242	4205.8	6738.5	6	4	2004	0:25	171	4.05	33.10	4.49	33.40	7
246	243	4211.2	6754.5	6	4	2004	12:08	240	2.72	32.10	4.89	33.54	6
247	244	4207.9	6757.5	6	4	2004	14:45	231	4.33	99.99	4.91	99.99	31
248	244	4208.7	6757.8	6	4	2004	15:13	235	4.26	99.99	4.86	33.52	8
249	245	4154.7	6811.5	6	4	2004	18:22	209	4.15	99.99	4.96	33.58	6
250	246	4147.3	6820.7	6	4	2004	20:16	177	4.37	33.18	4.59	33.41	7
251	247	4141.9	6801.8	6	4	2004	23:02	32	3.96	99.99	3.98	33.07	8
252	248	4119.6	6755.8	7	4	2004	2:22	37	3.94	99.99	3.96	32.94	6
253	250	4121.3	6809.1	7	4	2004	4:49	37	3.82	32.79	3.83	32.81	6
254	251	4129.1	6810.2	7	4	2004	6:16	49	3.88	99.99	3.88	99.99	6
255	252	4125.2	6817.0	7	4	2004	7:34	48	3.78	32.94	3.78	33.07	8
256	253	4122.8	6837.7	7	4	2004	9:43	87	4.01	33.15	4.11	33.05	6
257	254	4129.4	6834.1	7	4	2004	11:06	95	4.17	33.16	4.33	33.24	9
258	255	4140.4	6836.3	7	4	2004	12:46	165	4.56	33.32	4.46	33.45	8
259	256	4146.0	6840.8	7	4	2004	14:22	177	3.74	32.81	4.63	33.47	9
260	257	4140.4	6908.0	7	4	2004	17:58	170	4.07	33.23	4.02	33.38	5
261	258	4156.9	6922.6	7	4	2004	20:40	204	4.80	33.43	4.57	33.48	6
262	259	4203.3	6913.4	7	4	2004	22:28	198	4.79	33.31	4.57	33.49	5
263	260	4200.4	6910.2	7	4	2004	23:45	201	4.71	33.38	4.50	33.49	8
264	261	4200.4	6849.4	8	4	2004	2:30	133	4.52	33.17	4.58	33.45	10

Cast #	Sta #	Lat	Long	Day	Mo	Yr	Time (GMT)	Btm Depth	Sfc Temp	Sfc Salt	Btm Temp	Btm Salt	Meters from Bottom
265	262	4210.1	6841.6	8	4	2004	4:25	197	4.36	33.11	4.69	33.50	9
266	263	4213.3	6906.1	8	4	2004	7:15	168	4.68	33.37	4.64	33.52	5
267	264	4234.8	6931.2	8	4	2004	10:41	269	3.43	32.50	5.45	33.72	7
268	265	4223.3	6939.7	8	4	2004	13:13	246	4.33	33.07	4.87	33.59	46
269	265	4223.4	6939.9	8	4	2004	13:43	245	4.39	33.05	6.12	33.87	8
270	266	4214.5	6926.4	8	4	2004	15:56	211	4.85	33.26	4.88	33.58	8
271	267	4152.4	6954.8	8	4	2004	19:31	27	3.55	32.49	2.93	32.62	5
272	268	4134.4	6931.8	8	4	2004	22:06	56	3.79	33.03	3.73	33.07	7
273	270	4242.0	6857.5	14	4	2004	2:12	154	3.07	32.10	4.12	33.22	6
274	271	4256.3	6849.9	14	4	2004	4:46	140	2.46	31.97	4.24	33.15	6
275	272	4309.7	6834.3	14	4	2004	8:34	181	3.34	32.07	6.12	33.76	7
276	273	4303.7	6815.4	14	4	2004	11:48	195	2.42	31.91	5.45	33.59	7
277	274	4254.6	6820.5	14	4	2004	14:11	163	2.35	31.91	5.32	33.57	6
278	275	4251.5	6807.3	14	4	2004	16:52	189	2.56	32.00	7.47	34.29	6
279	276	4230.9	6815.5	14	4	2004	20:07	183	2.73	32.12	5.08	33.63	6
280	277	4236.1	6806.0	14	4	2004	22:01	186	2.98	31.88	6.40	33.93	4
281	278	4244.3	6733.6	15	4	2004	1:13	197	3.31	32.12	8.26	34.63	5
282	279	4236.4	6715.3	15	4	2004	3:55	275	3.31	32.14	8.67	34.93	77
283	279	4235.1	6715.6	15	4	2004	4:30	279	3.33	32.14	8.75	35.04	11
284	280	4240.4	6713.1	15	4	2004	6:05	246	3.41	32.15	8.58	34.88	9
285	281	4254.9	6718.9	15	4	2004	8:19	254	3.42	32.24	7.70	34.35	54
286	281	4255.5	6719.3	15	4	2004	8:40	249	3.44	99.99	8.06	34.51	7
287	282	4303.7	6708.9	15	4	2004	10:49	230	3.54	32.29	8.12	34.53	30
288	283	4303.6	6639.0	15	4	2004	14:11	132	1.26	31.43	5.05	33.32	6
289	284	4319.3	6650.1	15	4	2004	17:37	174	1.85	31.67	6.44	33.76	9
290	285	4317.7	6635.1	15	4	2004	20:25	100	2.08	99.99	2.84	32.42	9
291	286	4323.3	6613.6	16	4	2004	4:37	79	1.20	31.39	1.35	31.52	10
292	287	4344.3	6630.9	17	4	2004	0:28	97	1.52	31.34	2.18	32.09	6
293	288	4345.0	6659.1	17	4	2004	6:43	158	1.67	31.65	5.95	33.60	14
294	289	4347.1	6704.5	17	4	2004	11:21	179	1.87	99.99	6.22	33.68	5
295	290	4335.4	6725.3	17	4	2004	14:01	220	1.77	31.72	7.39	34.22	6
296	291	4340.0	6723.5	17	4	2004	15:25	215	2.02	31.78	7.10	34.09	16
297	291	4340.3	6723.0	17	4	2004	15:48	215	1.89	31.78	7.38	34.22	5
298	292	4350.8	6716.8	17	4	2004	17:45	188	2.74	31.98	7.64	34.14	6
299	293	4400.1	6643.5	17	4	2004	20:49	110	2.47	31.83	3.05	32.48	8
300	294	4410.3	6643.3	17	4	2004	22:23	161	2.38	31.96	4.50	33.07	1
301	295	4412.5	6656.3	18	4	2004	0:36	175	2.38	31.89	2.92	32.57	6
302	296	4421.4	6659.9	18	4	2004	2:37	135	2.31	32.16	4.94	33.30	6

Cast #	Sta #	Lat	Long	Day	Mo	Yr	Time (GMT)	Btm Depth	Sfc Temp	Sfc Salt	Btm Temp	Btm Salt	Meters from Bottom
303	297	4414.4	6751.8	18	4	2004	8:15	76	2.88	32.30	2.54	32.39	6
304	298	4404.9	6734.1	18	4	2004	10:41	195	2.89	32.06	7.34	34.07	5
305	299	4342.1	6802.9	18	4	2004	14:45	172	2.84	31.94	6.06	33.64	8
306	300	4357.8	6821.2	18	4	2004	17:47	89	3.27	32.17	2.48	32.43	5
307	301	4354.4	6837.6	18	4	2004	20:10	94	3.51	32.27	2.58	32.42	6
308	302	4335.4	6843.0	18	4	2004	23:51	158	3.70	32.16	3.25	32.84	5
309	303	4328.2	6933.8	19	4	2004	5:04	165	4.16	32.07	3.98	33.31	7
310	304	4317.0	6918.7	19	4	2004	7:37	158	3.60	32.09	4.06	33.32	6
311	305	4309.4	6929.6	19	4	2004	9:31	121	3.48	32.13	4.00	33.26	7
312	306	4316.0	6936.9	19	4	2004	11:10	151	3.67	32.05	3.93	33.26	4
313	307	4329.0	6956.4	19	4	2004	13:58	119	4.41	31.55	2.92	32.73	5
314	308	4331.0	7000.9	19	4	2004	15:49	101	5.61	29.12	2.83	32.53	6
315	309	4315.5	7002.4	19	4	2004	18:06	140	3.93	32.11	3.33	33.09	6
316	310	4316.2	7007.0	19	4	2004	19:37	146	4.84	31.83	3.30	33.08	7
317	311	4311.9	7017.4	19	4	2004	21:13	106	3.96	32.00	2.90	32.71	7
318	312	4252.4	7042.2	20	4	2004	0:31	45	5.72	30.96	3.47	32.28	5
319	313	4254.3	7019.1	20	4	2004	3:00	161	4.08	32.22	3.57	33.29	6
320	314	4257.0	7007.9	20	4	2004	5:11	134	4.29	32.44	3.08	32.97	6
321	315	4253.2	7005.6	20	4	2004	6:52	87	4.16	32.44	3.12	32.84	6
322	316	4247.1	6948.7	20	4	2004	9:04	252	4.25	32.54	5.41	33.69	3
323	317	4237.1	7007.5	20	4	2004	11:37	92	3.98	32.31	3.35	32.96	6
324	318	4233.5	7022.0	20	4	2004	13:36	144	5.62	31.16	3.52	33.04	6
325	319	4233.9	7026.9	20	4	2004	15:33	107	5.80	31.25	3.43	32.95	5
326	320	4226.5	7050.4	20	4	2004	18:28	36	6.03	31.26	3.32	32.40	5
327	321	4218.0	7050.0	20	4	2004	20:28	15	7.33	30.72	6.40	30.95	5
328	322	4220.2	7040.3	20	4	2004	22:06	54	6.03	31.13	3.11	32.67	6
329	323	4223.4	7031.0	20	4	2004	23:28	86	5.74	31.44	2.95	32.93	5
330	324	4212.0	7028.2	21	4	2004	1:10	61	6.09	31.24	2.96	32.87	5
331	325	4202.5	7022.6	21	4	2004	3:16	54	5.67	31.82	3.13	32.66	5
332	326	4204.7	7024.4	21	4	2004	4:30	58	5.47	31.56	3.06	32.80	5
333	327	4159.9	7027.5	21	4	2004	5:48	46	5.99	31.49	3.57	32.52	6
334	328	4158.9	7032.9	21	4	2004	7:03	31	6.07	31.37	4.32	32.11	6
335	329	4150.0	7029.2	21	4	2004	8:43	19	5.88	31.81	5.40	31.84	5
336	330	4158.2	7013.4	21	4	2004	10:46	33	5.28	31.87	4.69	32.24	5
337	331	4123.7	7124.6	22	4	2004	0:01	31	6.43	31.74	4.04	32.58	5
338	332	4119.4	7124.6	22	4	2004	1:55	33	6.95	31.75	3.61	32.62	5