

Oceanography Branch CTD Data Report
CTD_REPORT_2010002HB

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DATE: Revised: September 21, 2010

Oceanography Branch CTD Data Report

CTD_REPORT_2010002HB

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

HB 10-02
Spring Bottom Trawl Survey
Data Coverage: February 28 – May 2, 2010

This report presents a summary of surface and bottom temperature and salinity data collected during the Northeast Fisheries Science Center's 2010 Spring Bottom Trawl Survey aboard the NOAA FSV *Henry B. Bigelow*. All data was obtained with a Seabird Electronics SBE Model 19 profiling CTD s/n 4477.

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/hb1002.dat>

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

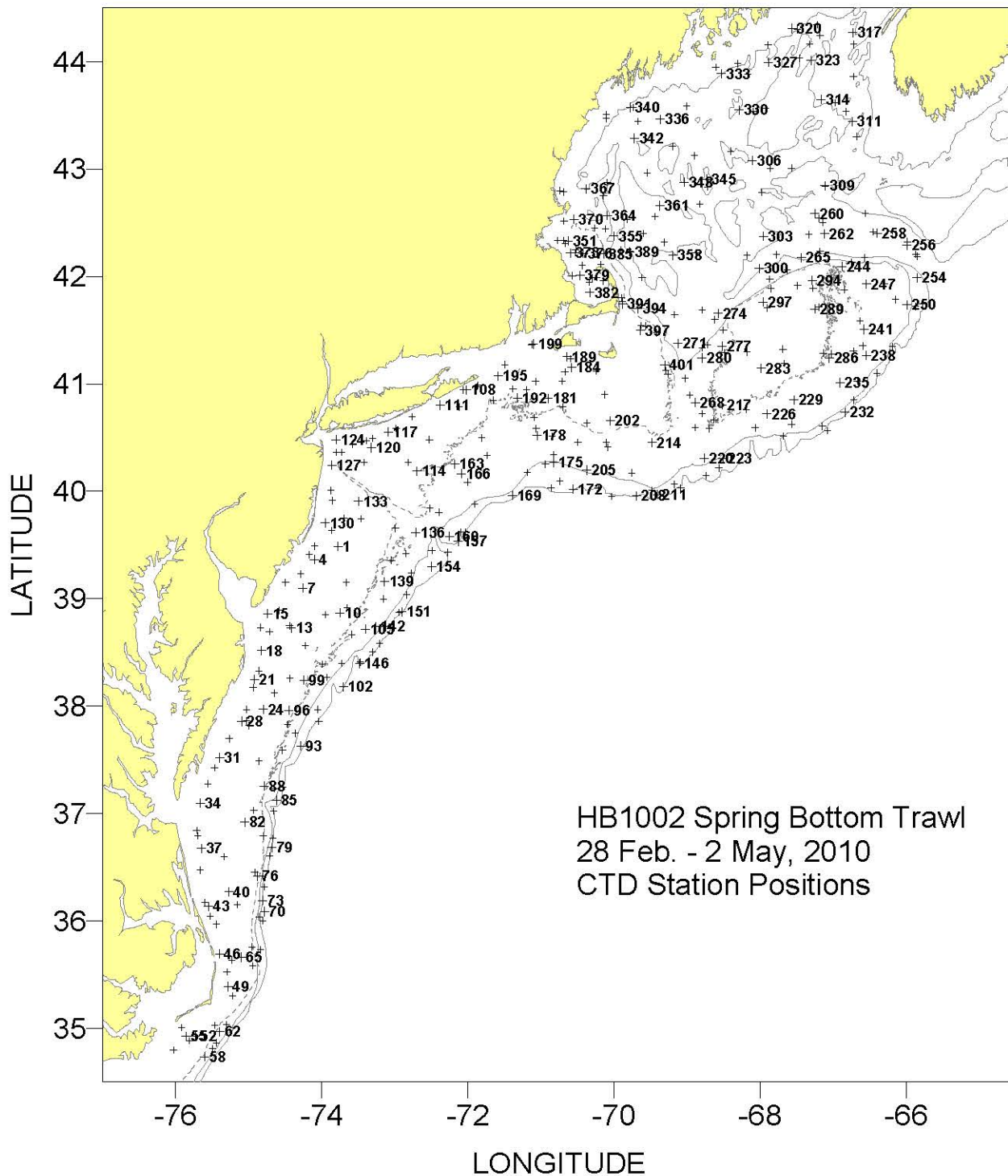
<http://www.nefsc.noaa.gov/HydroAtlas/>

choose: **2010 Cruises**

FEB_TRAWL_HB1002

CTD_REPORT_2010002HB.pdf

Revised: September 21, 2010



Areal average surface and bottom temperature/salinity and temperature/salinity anomalies for the 2010 Spring Bottom Trawl Survey HB1002

		SURFACE						BOTTOM						
CRUISE	CD	#obs	T/S	Anomaly	SDV1	SDV2	Flag	#obs	T/S	Anomaly	SDV1	SDV2	Flag	Purpose
Gulf of Maine West														
HB1002	113	56	7.04	1.56	0.15	0.93	0	55	6.11	1.01	0.13	0.69	0	10
HB1002	113	56	31.6	-0.87	0.1	0.41	0	55	33.04	-0.3	0.07	0.41	0	10
Gulf of Maine East														
HB1002	105	31	5.25	0.44	0.17	0.92	0	29	7.78	1.14	0.19	0.78	0	10
HB1002	105	31	31.83	-0.69	0.12	0.42	0	29	34	0.01	0.1	0.45	0	10
Georges Bank														
HB1002	98	58	6.81	1.67	0.14	1.42	0	46	6.6	1.43	0.16	0.93	0	10
HB1002	98	58	32.83	-0.17	0.08	0.75	0	46	32.91	-0.24	0.1	0.47	0	10
Mid Atlantic Bight North														
HB1002	84	56	6.16	1.6	0.17	1.45	0	48	6.01	0.88	0.22	1.44	0	10
HB1002	84	56	32.34	-0.54	0.11	2.44	0	48	32.85	-0.5	0.13	0.47	0	10
Mid Atlantic Bight South														
HB1002	68	96	5.59	-0.07	0.13	1.44	0	82	5.32	-0.33	0.16	1.32	0	10
HB1002	68	96	32.81	-0.32	0.1	2.19	0	82	33.16	-0.3	0.1	0.53	0	10

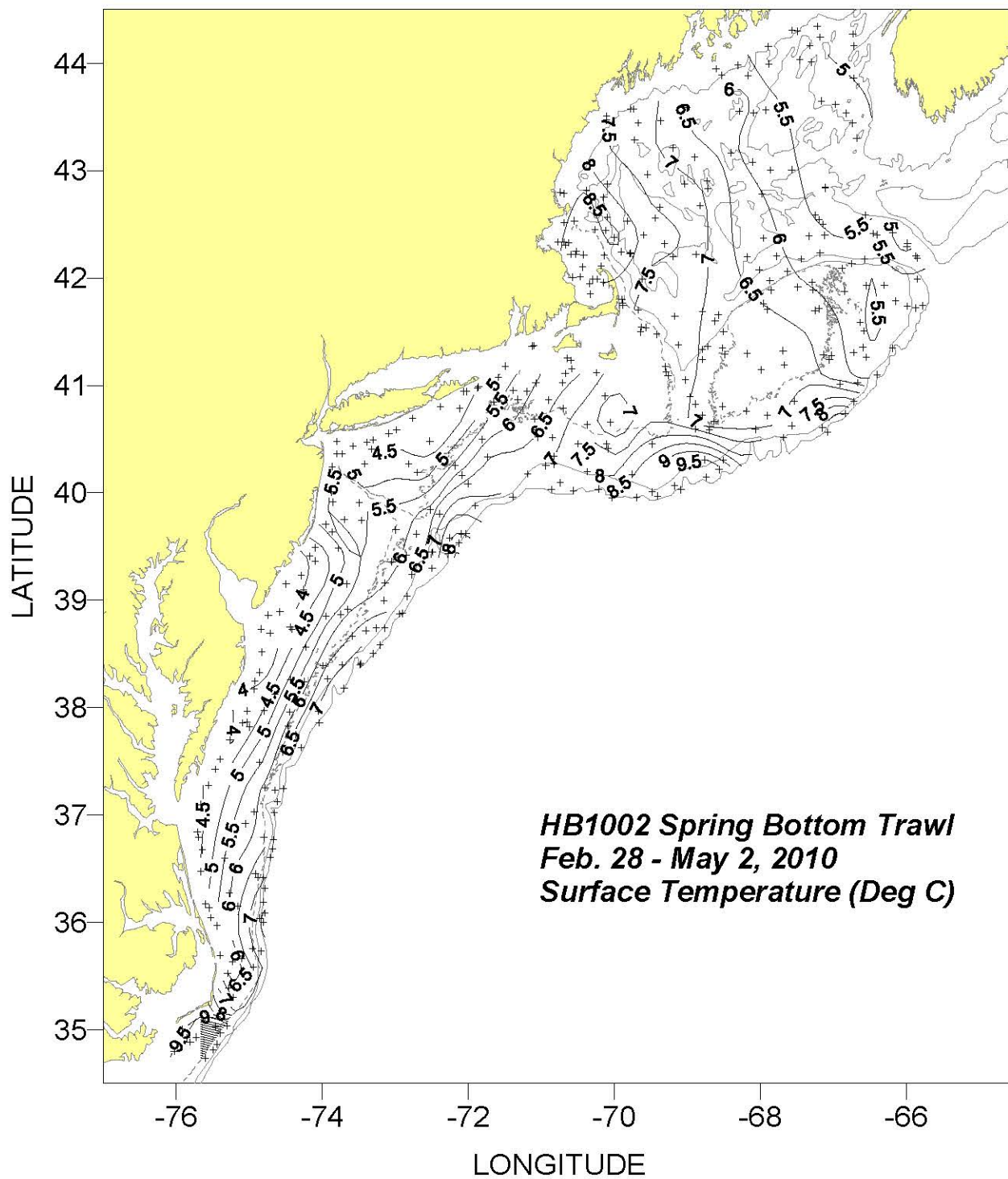
"CRUISE", the code name for a cruise: "CD", the calendar mid-date of all the stations within a region for a cruise:

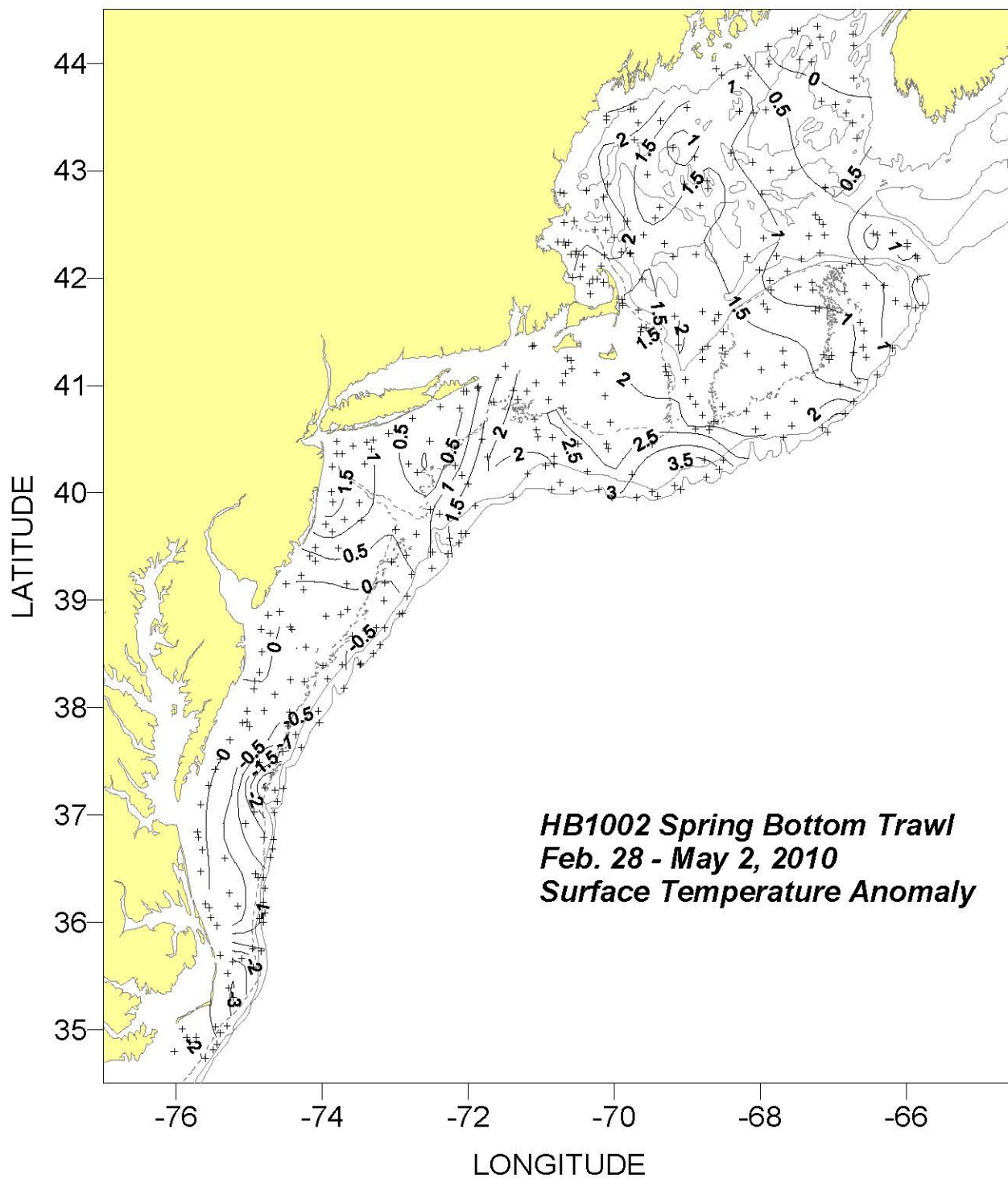
"#obs", the number of observations include in each average: "T/S", the areal average temp/salt: "Anomaly", the areal average temp/salt anomaly:

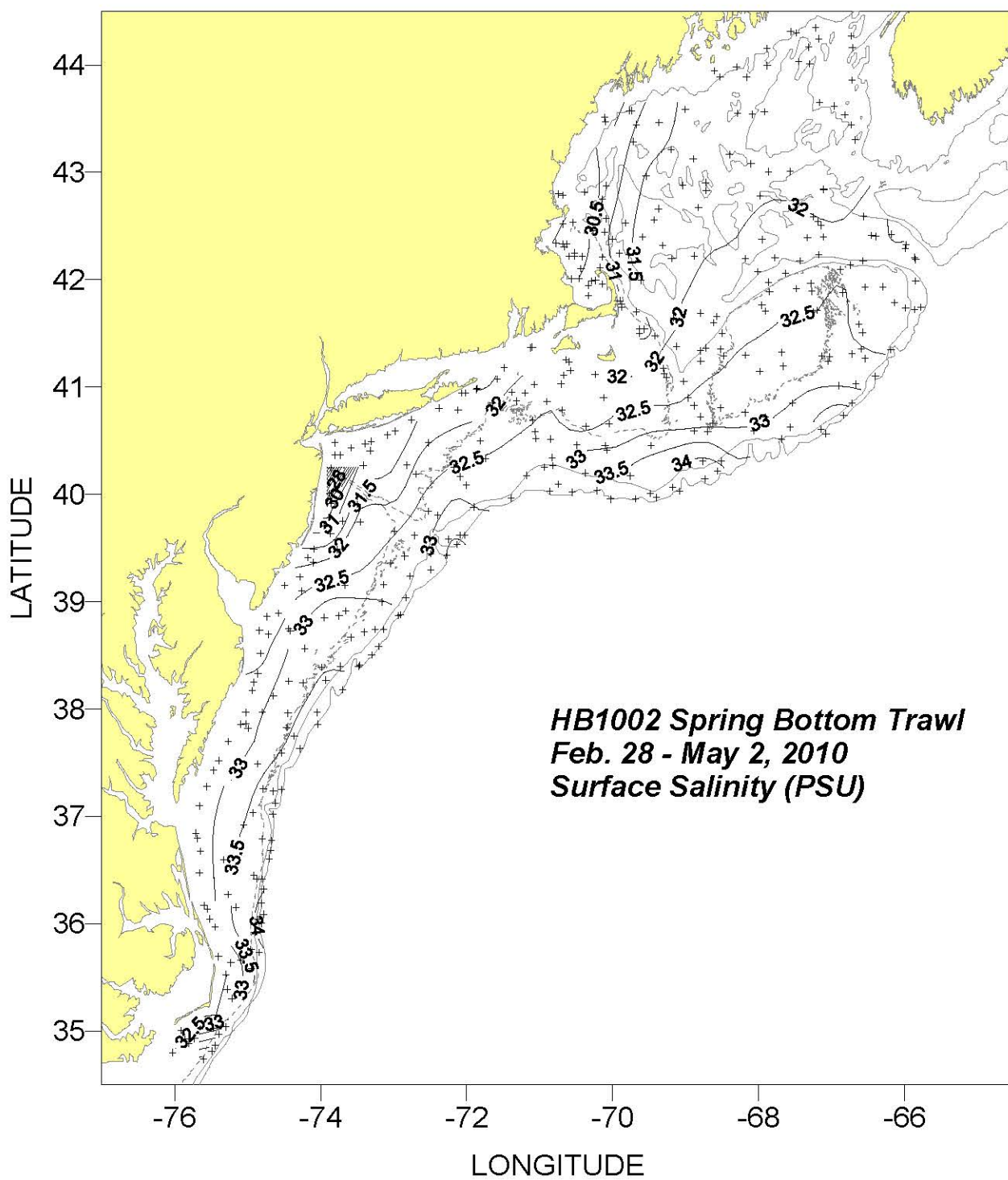
"SDV1", the standard deviation associated with the average temp/salt anomaly: "SDV2", the standard deviation of the individual anomalies from which the average anomaly was derived

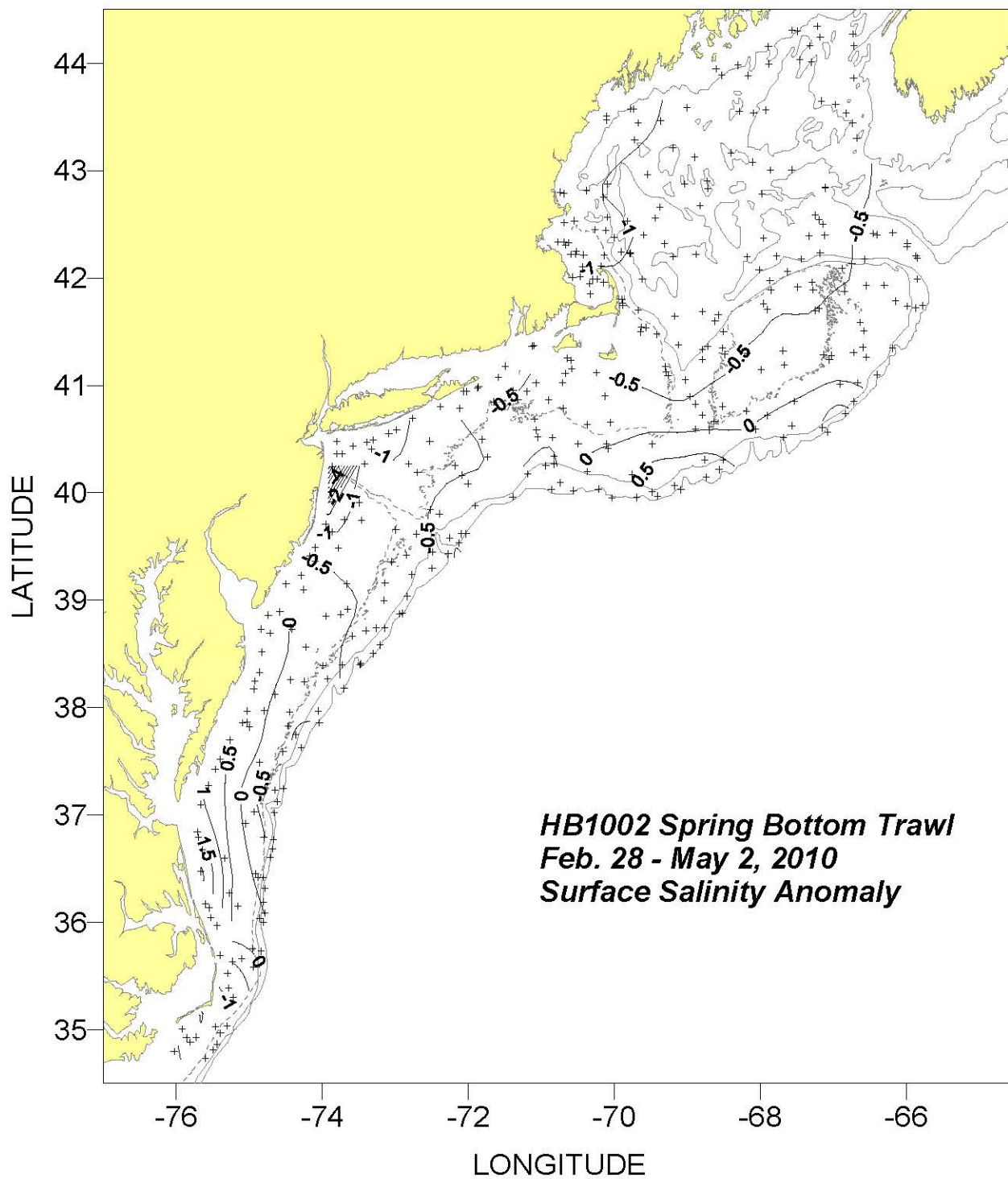
"Flag", a value of "1" indicates that a true areal average could not be calculated due to poor station coverage. The areal averages listed were derived from a simple average of the observations within the region.

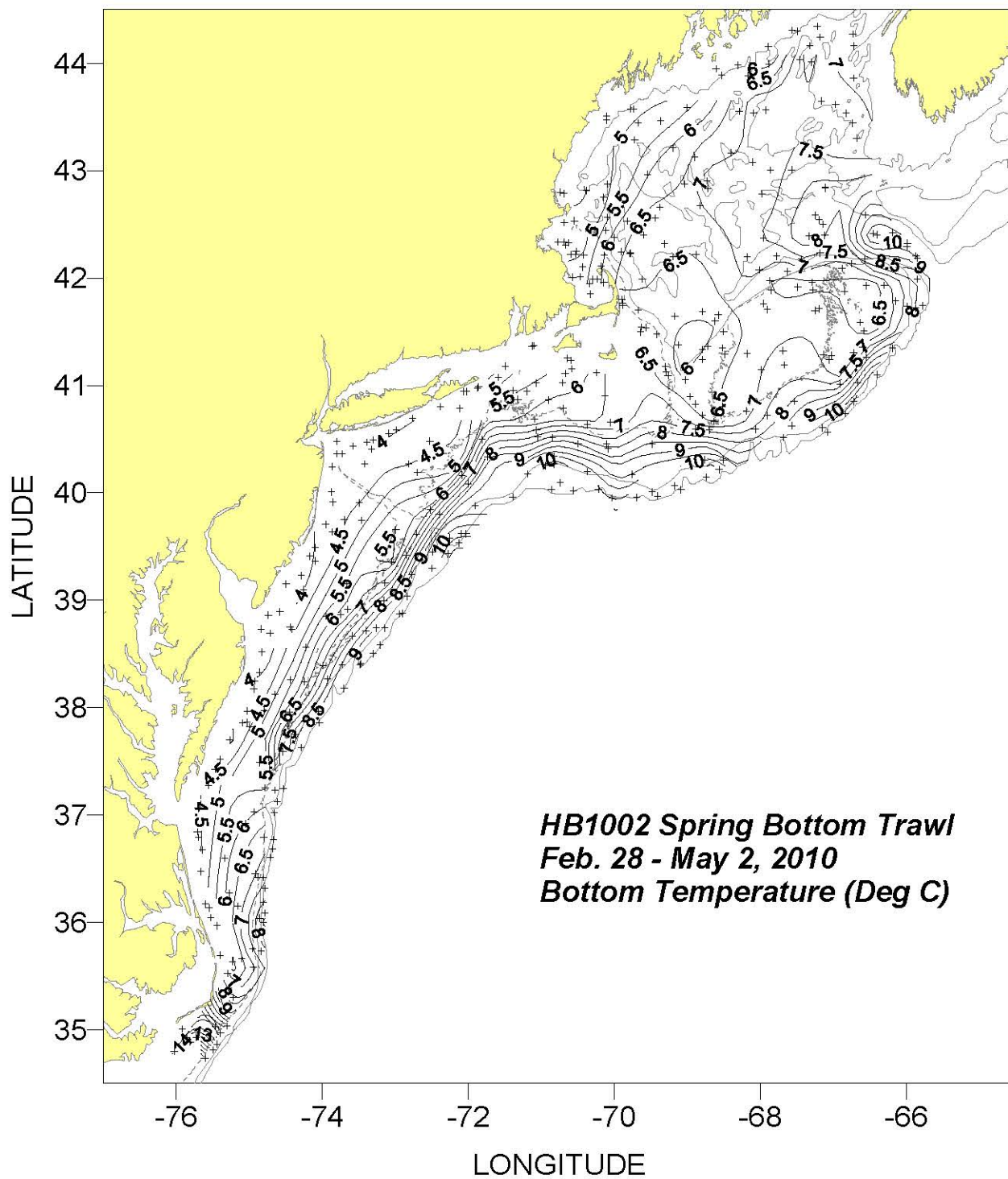
"Purpose", 2 digit code assigned by DMS to identify a unique NEFSC program survey.

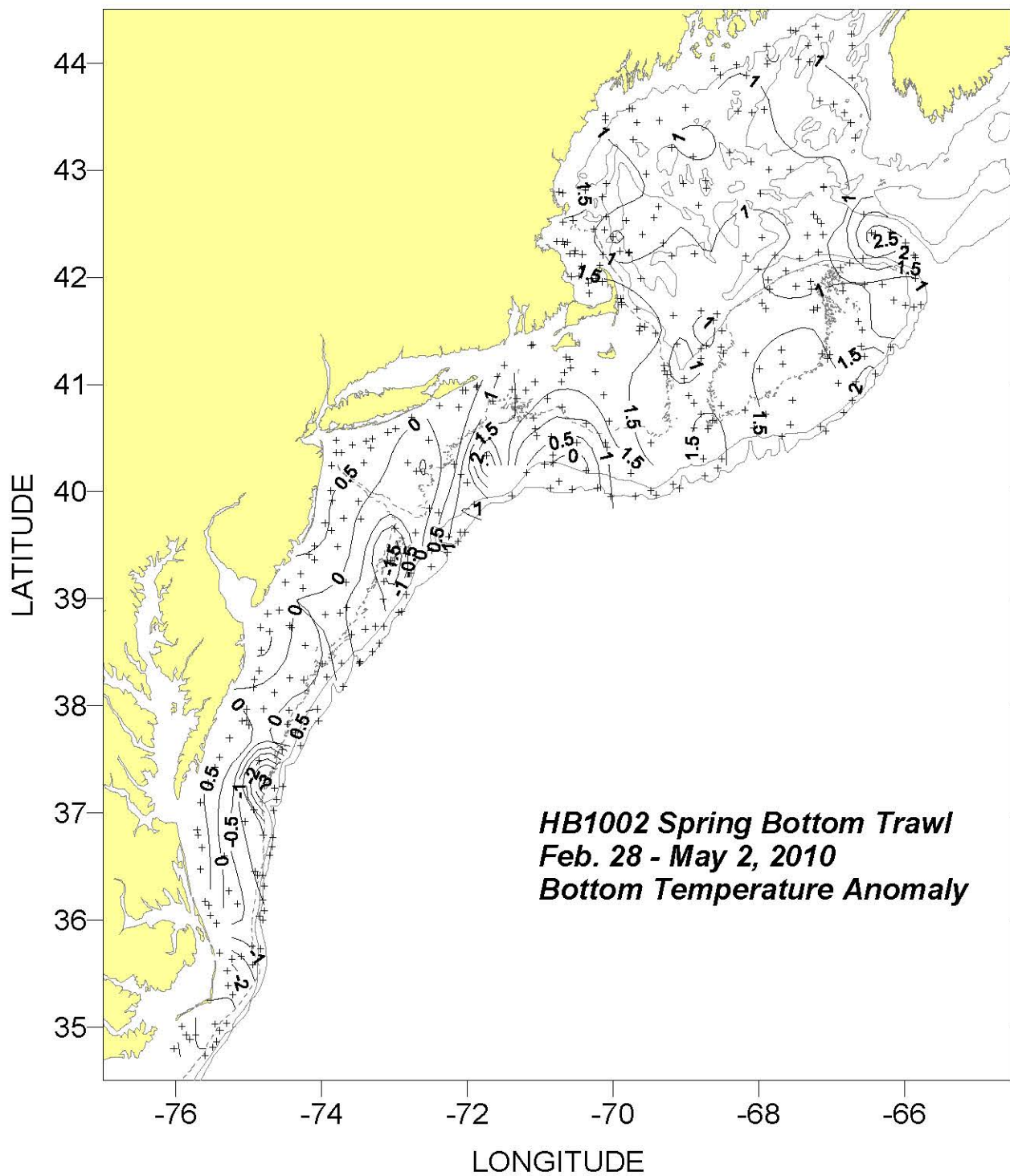


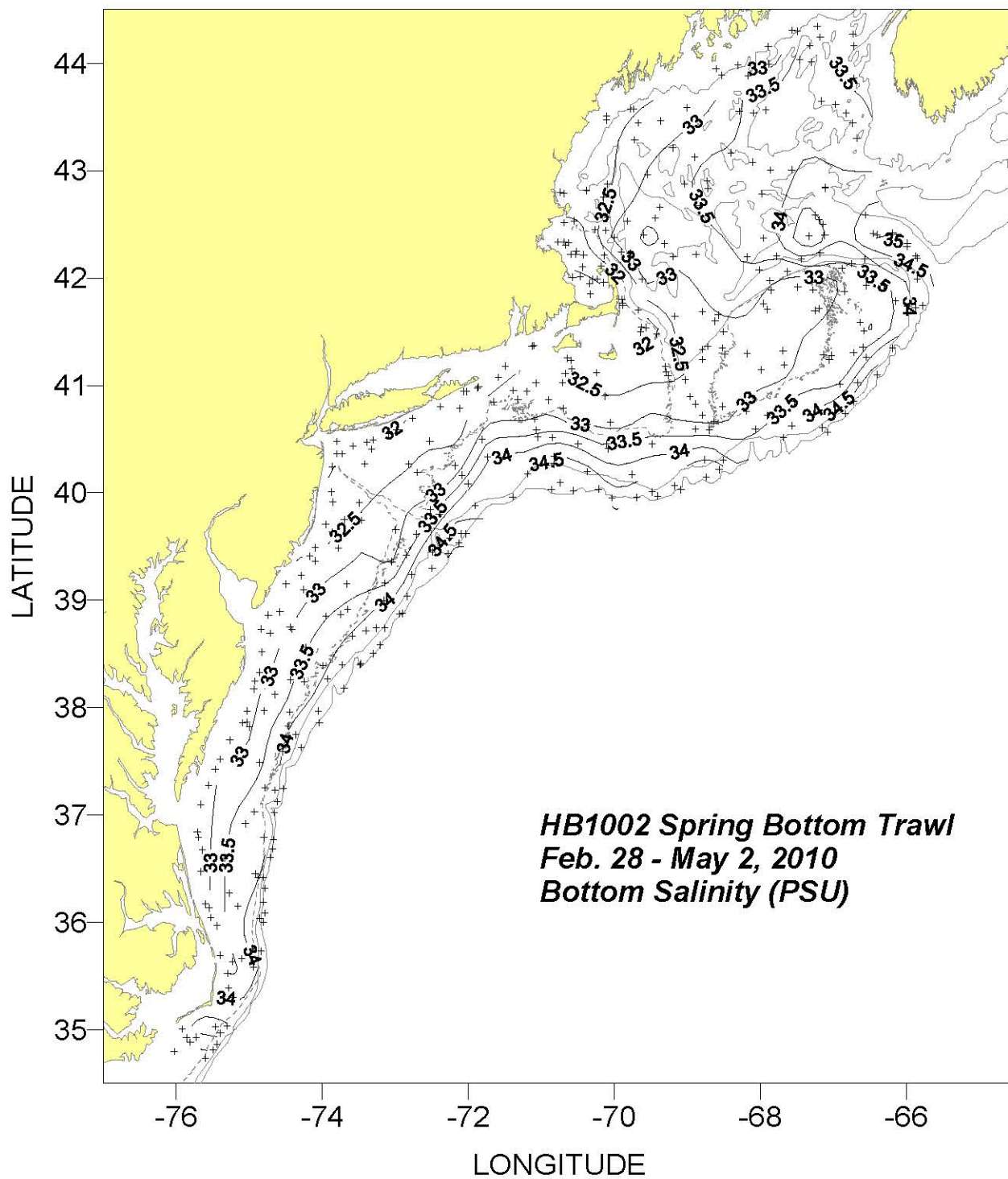


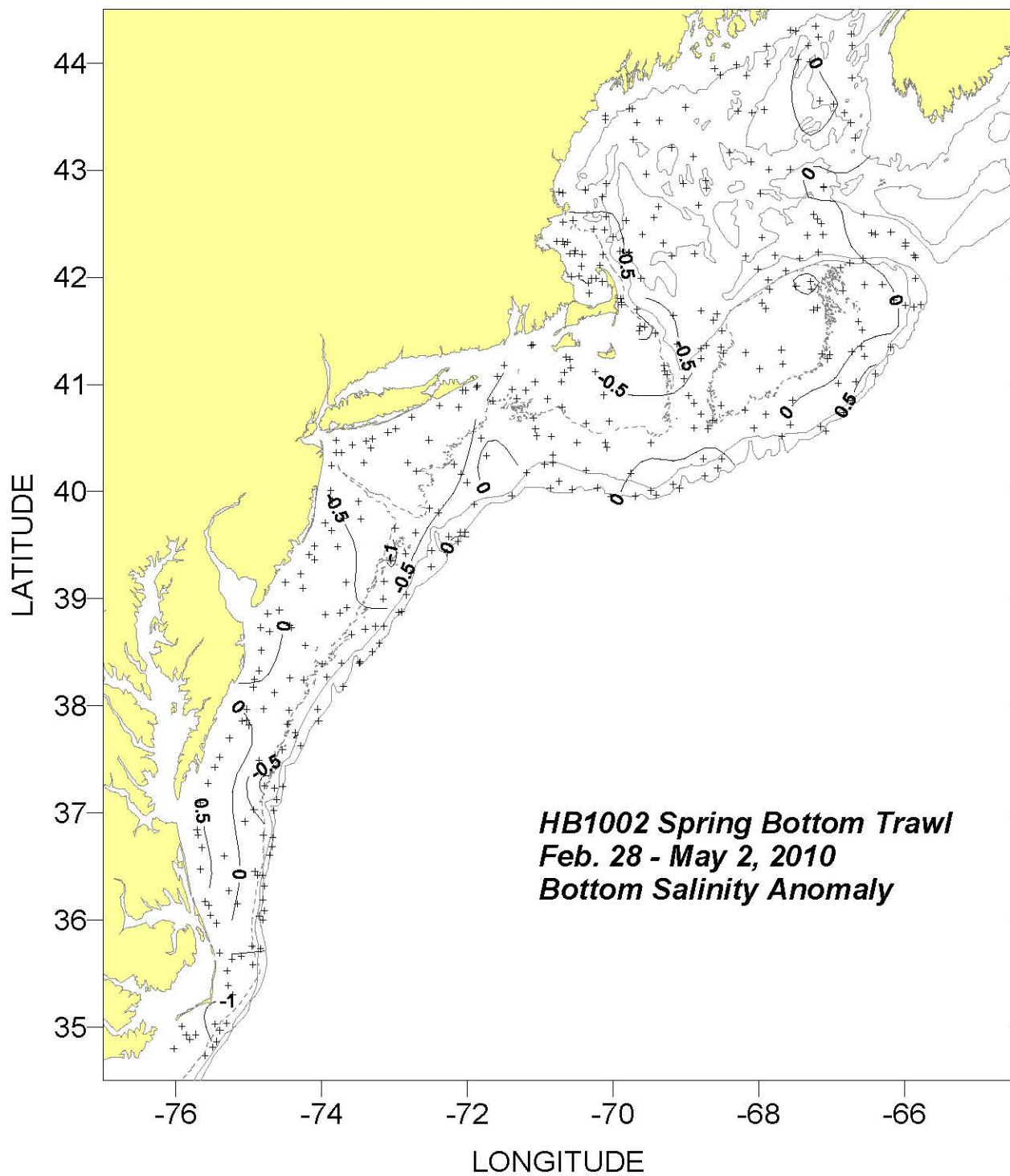












HB1002
Spring Bottom Trawl Survey
February 28 - May 2, 2010

CTD Cast #	Station #	Lat Deg N	Long Deg W	Day	Month	Year	Time GMT	Bottom Depth (m)	Surface Temp. Deg C	Surface Salinity PSU	Bottom Temp. Deg C	Bottom Salinity PSU	Meters From Bottom
1	1	3929.2	7346.7	28	2	2010	9:34	32	4.32	32.93	4.47	33.03	7
2	2	3929.3	7405.7	28	2	2010	12:33	23	3.19	32.01	3.29	32.09	7
3	3	3924.6	7410.4	28	2	2010	14:13	20	3.07	31.71	3.18	32.06	5
4	4	3921.9	7405.9	28	2	2010	15:41	23	3.35	32.25	3.32	32.34	6
5	5	3913.8	7417.1	28	2	2010	17:37	21	3.31	32.05	3.38	32.62	3
6	6	3909.0	7429.6	28	2	2010	19:17	20	3.04	31.55	3.03	32.30	6
7	7	3905.9	7415.5	28	2	2010	21:10	30	3.59	32.79	3.58	32.89	3
8	8	3909.0	7339.9	1	3	2010	0:18	37	5.47	33.41	5.51	33.41	1
9	9	3854.9	7339.2	1	3	2010	3:16	47	5.18	33.50	5.18	33.50	4
10	10	3852.1	7344.9	1	3	2010	4:40	46	5.01	33.50	5.07	33.52	8
11	11	3851.1	7356.9	1	3	2010	6:31	44	4.68	33.45	4.73	33.49	7
12	12	3833.8	7413.2	1	3	2010	9:22	47	4.70	33.65	4.73	33.65	7
13	13	3843.7	7424.9	1	3	2010	11:22	33	3.86	33.19	3.98	33.28	6
14	13	3844.8	7426.4	1	3	2010	12:36	39	3.66	33.00	3.86	33.16	2
15	14	3853.5	7434.7	1	3	2010	13:40	20	2.74	32.21	2.74	32.21	4
16	15	3851.7	7444.2	1	3	2010	15:43	18	2.97	32.15	2.96	32.16	3
17	16	3843.9	7450.3	1	3	2010	17:22	19	3.22	31.91	3.20	31.93	4
18	17	3841.7	7442.9	1	3	2010	18:58	19	3.02	31.69	2.99	31.74	5
19	18	3831.0	7449.5	1	3	2010	21:10	27	3.41	32.31	3.55	32.79	3
20	19	3815.5	7426.1	2	3	2010	0:15	40	4.43	33.60	4.42	33.61	2
21	20	3819.7	7451.6	2	3	2010	2:55	22	3.41	32.02	3.40	32.17	6
22	21	3814.9	7455.2	2	3	2010	4:43	23	3.42	32.29	3.45	32.36	4
23	22	3810.3	7456.2	2	3	2010	5:50	22	3.49	32.40	3.49	32.40	3
24	23	3807.3	7438.9	2	3	2010	7:46	32	4.38	33.52	4.51	33.58	5
25	24	3758.2	7447.9	2	3	2010	9:37	32	3.95	33.16	4.10	33.32	4
26	25	3758.1	7501.6	2	3	2010	11:25	20	3.51	32.28	3.62	32.48	3
27	26	3751.8	7501.6	2	3	2010	13:07	25	3.72	32.67	3.78	32.74	4

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CTD Cast #	Station #	Lat Deg N	Long Deg W	Day	Month	Year	Time GMT	Bottom Depth (m)	Surface Temp. Deg C	Surface Salinity PSU	Bottom Temp. Deg C	Bottom Salinity PSU	Meters From Bottom
28	27	3751.5	7505.5	2	3	2010	14:26	27	3.69	32.47	3.68	32.52	5
29	29	3749.1	7459.7	2	3	2010	17:28	26	3.94	32.81	3.91	32.93	6
30	30	3741.8	7515.9	2	3	2010	19:34	24	3.83	32.42	3.80	32.46	3
31	31	3731.2	7523.8	2	3	2010	21:13	24	4.04	32.52	4.08	32.57	5
32	32	3725.6	7528.0	2	3	2010	22:57	22	4.24	32.69	4.25	32.69	5
33	33	3716.6	7533.5	3	3	2010	1:04	21	4.31	32.65	4.31	32.65	4
34	34	3705.8	7539.7	3	3	2010	3:07	18	4.43	32.59	4.43	32.61	3
35	35	3650.6	7542.6	4	3	2010	2:10	23	4.36	32.65	4.37	32.65	5
36	36	3647.6	7541.5	4	3	2010	3:58	23	4.34	32.64	4.35	32.65	3
37	37	3640.5	7538.7	4	3	2010	5:43	22	4.36	32.71	4.37	32.72	2
38	38	3628.3	7539.7	4	3	2010	8:30	23	4.40	32.43	4.36	32.57	4
39	39	3635.8	7519.9	4	3	2010	11:33	35	4.93	33.53	4.94	33.53	5
40	40	3616.2	7516.2	4	3	2010	14:26	32	6.48	34.15	6.47	34.15	5
41	41	3609.1	7506.5	4	3	2010	16:43	30	6.74	34.18	6.72	34.18	3
42	42	3610.2	7535.9	4	3	2010	19:46	24	4.73	32.32	4.49	32.56	2
43	43	3608.1	7532.9	4	3	2010	21:04	24	4.71	32.96	4.60	32.96	2
44	44	3602.6	7531.4	4	3	2010	22:22	26	4.76	32.56	4.59	32.74	3
45	45	3558.1	7526.6	5	3	2010	0:01	23	4.88	32.77	4.90	32.77	1
46	46	3541.6	7523.9	5	3	2010	2:19	27	4.89	29.03	4.86	31.82	3
47	47	3538.1	7513.8	5	3	2010	3:47	37	5.34	33.53	5.35	33.52	3
48	48	3531.5	7517.8	5	3	2010	5:33	26	4.78	30.18	5.21	32.66	5
49	49	3523.3	7516.9	5	3	2010	7:18	27	4.96	31.76	5.47	33.15	5
50	50	3518.1	7513.0	5	3	2010	8:48	25	5.80	33.91	5.95	33.98	4
51	51	3501.6	7527.8	5	3	2010	11:41	45	5.16	31.31	12.44	34.09	4
52	52	3455.8	7543.6	5	3	2010	14:13	31	6.13	30.07	12.75	34.02	5
53	53	3453.0	7548.4	5	3	2010	15:46	27	6.52	30.62	11.54	33.69	4
54	54	3500.3	7554.9	5	3	2010	17:25	25	8.00	30.98	12.79	34.14	3

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CTD Cast #	Station #	Lat Deg N	Long Deg W	Day	Month	Year	Time GMT	Bottom Depth (m)	Surface Temp. Deg C	Surface Salinity PSU	Bottom Temp. Deg C	Bottom Salinity PSU	Meters From Bottom
55	55	3455.5	7551.5	5	3	2010	18:52	24	7.89	31.13	12.72	34.01	2
56	56	3447.9	7601.7	5	3	2010	20:46	32	8.76	32.69	14.88	35.13	3
57	57	3427.9	7546.8	5	3	2010	23:49	193	22.57	36.59	18.04	36.48	1
58	58	3444.1	7536.1	6	3	2010	2:46	97	22.19	36.57	19.29	36.42	1
59	59	3448.7	7529.6	6	3	2010	4:58	148	22.28	36.57	17.75	36.22	2
60	60	3451.9	7526.6	6	3	2010	7:11	139	22.01	36.57	16.09	35.88	6
61	61	3458.1	7523.6	6	3	2010	9:11	78	5.66	31.84	15.14	35.83	4
62	63	3502.2	7518.1	6	3	2010	12:56	90	5.78	31.79	6.81	33.99	4
63	64	3535.0	7456.7	6	3	2010	17:51	50	6.93	34.20	6.90	34.20	1
64	65	3539.7	7506.0	6	3	2010	20:02	40	6.48	34.14	6.47	34.14	4
65	66	3545.5	7457.3	6	3	2010	21:46	55	6.69	34.14	6.45	34.12	8
66	67	3543.9	7450.4	6	3	2010	23:31	111	7.53	34.26	7.79	34.33	3
67	70	3605.2	7447.0	7	3	2010	10:58	232	8.47	34.43	9.64	34.76	3
68	71	3600.2	7448.5	7	3	2010	12:26	149	7.71	34.22	8.70	34.50	4
69	72	3602.3	7451.7	7	3	2010	15:58	94	7.62	34.16	7.39	34.15	3
70	73	3611.4	7448.5	7	3	2010	17:49	111	6.70	33.92	8.20	34.32	1
71	74	3619.1	7447.0	7	3	2010	20:37	183	6.82	33.90	10.05	34.87	1
72	75	3625.0	7448.3	7	3	2010	21:38	91	7.04	33.92	7.24	34.00	3
73	76	3625.1	7452.7	7	3	2010	23:17	48	6.83	33.91	6.22	33.86	1
74	77	3627.1	7454.9	8	3	2010	0:40	35	6.37	33.85	6.13	33.85	3
75	78	3636.3	7442.5	8	3	2010	6:26	272	6.50	33.81	10.36	34.93	7
76	79	3641.0	7440.9	8	3	2010	9:08	229	7.16	33.92	10.22	34.93	4
77	80	3646.3	7440.2	8	3	2010	10:16	111	7.37	33.99	9.23	34.60	2
78	81	3647.4	7448.0	8	3	2010	13:07	57	5.96	33.65	5.60	33.70	6
79	82	3655.2	7503.2	8	3	2010	15:19	39	5.40	33.72	5.02	33.72	6
80	83	3701.9	7455.7	8	3	2010	16:52	49	5.53	33.66	5.16	33.66	1
81	84	3701.3	7439.4	8	3	2010	19:19	124	6.84	33.72	8.63	34.39	2

HB1002
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February 28 - May 2, 2010

CTD Cast #	Station #	Lat Deg N	Long Deg W	Day	Month	Year	Time GMT	Bottom Depth (m)	Surface Temp. Deg C	Surface Salinity PSU	Bottom Temp. Deg C	Bottom Salinity PSU	Meters From Bottom
82	85	3707.4	7437.1	8	3	2010	22:22	97	7.10	33.79	8.84	34.43	1
83	86	3714.8	7432.1	9	3	2010	0:19	138	6.89	33.70	9.18	34.52	2
84	87	3714.0	7438.9	9	3	2010	2:17	91	6.63	33.61	8.42	34.27	2
85	88	3715.3	7447.1	9	3	2010	4:16	50	6.06	33.61	5.30	33.62	4
87	89	3729.2	7451.7	9	3	2010	7:04	32	5.36	33.56	4.94	33.57	3
88	90	3735.3	7432.2	9	3	2010	8:45	63	6.91	33.71	7.81	34.05	4
89	93	3737.7	7417.1	9	3	2010	14:46	126	9.00	34.38	10.81	35.08	4
90	94	3744.8	7421.7	9	3	2010	17:01	72	6.33	33.42	8.89	34.35	4
91	95	3749.7	7427.9	9	3	2010	19:13	59	6.51	33.40	6.50	33.61	2
92	96	3757.6	7426.8	9	3	2010	21:02	55	6.66	33.34	5.62	33.40	5
93	97	3751.5	7402.3	10	3	2010	1:12	262	9.30	34.43	11.87	35.57	5
94	98	3758.1	7403.1	10	3	2010	2:16	118	7.47	33.70	10.18	34.84	3
95	99	3814.5	7414.6	10	3	2010	5:07	50	6.34	33.33	6.32	33.55	3
96	100	3823.4	7359.4	10	3	2010	7:15	61	7.07	33.52	7.18	33.80	1
97	101	3816.1	7355.6	10	3	2010	8:58	71	7.11	33.58	8.58	34.22	3
98	102	3810.8	7342.0	10	3	2010	12:13	208	10.78	35.06	11.84	35.55	9
99	103	3823.9	7343.7	10	3	2010	13:46	86	7.24	33.54	8.16	34.01	2
100	104	3840.0	7335.2	10	3	2010	16:30	63	6.87	33.33	6.75	33.55	4
101	105	3843.0	7324.1	10	3	2010	19:06	78	6.81	33.30	6.24	33.34	2
102	106	4058.6	7152.2	16	3	2010	23:10	28	3.60	30.79	3.19	31.54	5
103	107	4059.3	7151.5	17	3	2010	0:25	27	3.66	30.40	3.16	31.58	5
104	108	4056.7	7201.1	17	3	2010	1:46	26	3.98	30.45	3.35	31.54	5
105	109	4056.7	7203.8	17	3	2010	2:40	26	3.56	31.22	3.44	31.32	5
106	110	4047.2	7207.0	17	3	2010	4:16	43	3.33	32.10	3.06	32.12	7
107	111	4048.2	7222.8	17	3	2010	6:28	29	3.34	31.33	3.32	31.67	4
108	112	4041.7	7245.6	17	3	2010	8:38	28	3.39	31.25	3.53	31.84	4
109	113	4028.9	7231.5	17	3	2010	11:22	45	3.31	32.27	3.14	32.27	3

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CTD Cast #	Station #	Lat Deg N	Long Deg W	Day	Month	Year	Time GMT	Bottom Depth (m)	Surface Temp. Deg C	Surface Salinity PSU	Bottom Temp. Deg C	Bottom Salinity PSU	Meters From Bottom
110	114	4011.4	7241.6	17	3	2010	13:51	58	3.95	32.47	3.78	32.48	4
111	115	4016.3	7249.0	17	3	2010	15:25	49	3.99	32.41	3.54	32.40	3
112	116	4035.3	7258.8	17	3	2010	18:13	25	3.71	31.20	3.58	31.68	5
113	117	4033.2	7305.2	17	3	2010	19:31	27	4.17	31.10	3.66	31.88	5
114	118	4029.6	7318.3	17	3	2010	21:28	24	4.75	31.00	3.88	31.30	4
115	119	4028.3	7323.2	17	3	2010	22:40	25	4.85	31.39	4.00	31.46	4
116	120	4024.4	7319.3	18	3	2010	0:10	33	4.28	31.41	3.72	31.81	4
117	121	4016.2	7325.1	18	3	2010	1:58	33	4.37	32.06	4.09	32.34	4
118	122	4026.1	7334.8	18	3	2010	4:04	24	4.72	31.72	4.16	31.72	4
119	124	4028.8	7348.1	18	3	2010	6:20	25	6.19	18.35	4.32	31.65	1
120	125	4021.9	7343.8	18	3	2010	8:21	27	5.62	25.28	4.00	31.86	4
121	126	4021.9	7348.0	18	3	2010	9:48	39	6.22	15.92	3.98	31.94	5
122	127	4014.6	7351.7	18	3	2010	11:19	24	5.98	23.93	4.22	31.91	4
123	128	4000.5	7352.6	18	3	2010	13:16	24	5.08	31.35	4.35	31.98	2
124	129	3954.9	7351.3	18	3	2010	14:31	25	5.25	31.42	4.41	31.92	5
125	130	3942.3	7357.1	18	3	2010	16:16	24	7.08	27.29	4.19	32.14	4
126	131	3938.1	7351.8	18	3	2010	17:43	28	5.12	31.59	4.21	32.35	6
127	132	3945.1	7341.9	18	3	2010	19:19	29	5.48	32.18	4.35	32.25	3
128	133	3954.4	7329.7	18	3	2010	21:30	39	5.59	32.36	4.34	32.38	7
129	134	3944.6	7327.6	18	3	2010	23:04	34	5.55	32.53	4.71	32.58	4
130	135	3939.3	7259.4	19	3	2010	1:43	62	5.58	32.72	4.77	32.71	4
131	136	3937.0	7242.7	19	3	2010	3:58	70	6.08	32.86	5.54	32.86	3
132	137	3925.3	7250.8	19	3	2010	5:58	72	6.32	32.95	5.82	32.96	2
133	138	3921.5	7302.6	19	3	2010	7:45	58	5.71	32.78	5.03	32.78	3
134	139	3909.6	7308.3	19	3	2010	9:37	66	6.03	32.85	5.34	32.85	3
135	140	3859.9	7309.3	19	3	2010	11:23	81	6.16	32.90	5.50	32.89	2
136	141	3844.4	7308.4	19	3	2010	14:16	119	6.14	33.02	11.62	35.22	6

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CTD Cast #	Station #	Lat Deg N	Long Deg W	Day	Month	Year	Time GMT	Bottom Depth (m)	Surface Temp. Deg C	Surface Salinity PSU	Bottom Temp. Deg C	Bottom Salinity PSU	Meters From Bottom
137	142	3844.5	7315.4	19	3	2010	16:21	80	6.14	33.04	6.30	33.25	4
138	143	3830.2	7318.1	19	3	2010	18:55	204	7.83	33.41	12.18	35.58	1
139	144	3824.6	7328.1	19	3	2010	21:51	109	6.74	33.07	11.69	35.23	4
140	146	3823.8	7328.9	20	3	2010	0:33	130	7.10	33.05	11.76	35.27	4
141	148	3834.9	7312.3	20	3	2010	6:33	248	12.77	35.37	11.70	35.55	4
142	149	3852.3	7256.3	20	3	2010	8:49	128	6.22	32.96	11.59	35.23	3
143	151	3852.7	7254.1	20	3	2010	14:46	200	6.31	32.95	12.02	35.45	2
144	152	3902.2	7250.1	20	3	2010	16:01	117	6.64	32.92	11.48	35.20	2
145	153	3914.2	7246.4	20	3	2010	18:13	95	6.42	32.90	8.27	33.94	4
146	154	3917.9	7229.6	20	3	2010	20:22	141	6.94	32.92	12.31	35.47	3
147	155	3926.9	7229.5	20	3	2010	22:34	120	6.22	32.80	10.57	34.77	6
148	156	3925.9	7216.2	21	3	2010	2:17	212	8.96	33.79	12.37	35.59	9
149	157	3932.0	7207.8	21	3	2010	4:48	229	10.26	34.47	12.30	35.59	2
150	158	3937.1	7201.6	21	3	2010	6:34	217	10.50	34.67	12.61	35.59	3
151	159	3937.2	7205.6	21	3	2010	7:16	155	10.19	34.43	12.61	35.58	2
152	160	3934.9	7215.1	21	3	2010	9:08	119	7.72	33.18	12.53	35.55	3
153	161	3948.3	7223.8	21	3	2010	11:30	80	5.78	32.71	8.56	33.99	3
154	162	3950.5	7231.3	21	3	2010	13:13	67	6.05	32.73	4.92	32.71	3
155	163	4015.2	7210.6	21	3	2010	16:28	64	5.66	32.54	4.89	32.66	5
156	164	4029.9	7148.7	21	3	2010	19:07	67	6.91	32.57	6.96	33.37	5
157	165	4020.1	7144.3	21	3	2010	21:28	73	6.92	32.73	10.31	34.79	4
158	166	4009.9	7205.2	22	3	2010	0:07	65	6.19	32.67	5.37	32.76	4
159	167	4005.1	7200.2	22	3	2010	1:31	76	6.65	32.75	5.68	32.86	5
160	168	3952.9	7154.2	22	3	2010	3:35	129	7.20	32.92	10.59	34.76	3
161	169	3957.7	7123.4	22	3	2010	6:41	210	6.88	32.79	11.59	35.45	3
162	170	4010.6	7110.9	22	3	2010	9:16	124	6.87	32.78	11.96	35.47	2
163	171	4001.9	7051.6	22	3	2010	12:46	224	6.58	32.67	11.68	35.47	2

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CTD Cast #	Station #	Lat Deg N	Long Deg W	Day	Month	Year	Time GMT	Bottom Depth (m)	Surface Temp. Deg C	Surface Salinity PSU	Bottom Temp. Deg C	Bottom Salinity PSU	Meters From Bottom
164	172	4001.2	7033.4	22	3	2010	15:08	217	7.21	32.82	12.01	35.48	1
165	173	4005.6	7044.6	22	3	2010	16:40	134	8.34	33.18	12.21	35.47	1
166	174	4015.1	7056.2	22	3	2010	18:38	121	7.13	32.67	10.36	34.77	5
167	175	4016.1	7049.3	22	3	2010	20:22	119	7.04	32.68	11.53	35.16	3
168	176	4020.5	7049.6	22	3	2010	21:58	99	7.05	32.71	9.88	34.64	5
169	177	4030.9	7050.9	22	3	2010	23:49	75	6.88	32.68	5.57	32.77	6
170	178	4031.2	7103.0	23	3	2010	1:34	76	6.60	32.74	5.31	32.82	3
171	179	4035.1	7103.8	23	3	2010	3:22	71	6.68	32.70	5.53	32.82	4
172	180	4041.3	7105.6	23	3	2010	5:04	63	6.77	32.83	5.47	32.86	5
173	181	4051.9	7054.0	23	3	2010	7:28	53	6.86	32.77	5.70	32.83	4
174	182	4101.6	7042.4	23	3	2010	9:30	46	6.28	32.58	5.19	32.63	2
175	183	4106.7	7040.2	23	3	2010	11:04	44	6.05	32.38	5.01	32.51	4
176	184	4109.3	7034.8	23	3	2010	13:21	39	5.81	32.15	4.97	32.32	3
177	185	4107.1	7014.5	23	3	2010	15:33	27	5.95	32.28	5.92	32.31	5
178	187	4114.1	7035.6	24	3	2010	0:24	29	6.17	32.07	5.20	32.23	6
179	189	4115.2	7038.4	24	3	2010	3:09	29	5.94	32.00	5.10	32.22	6
180	190	4101.4	7104.3	24	3	2010	6:37	46	5.49	32.23	5.04	32.57	3
181	191	4056.6	7111.9	24	3	2010	8:40	50	5.59	32.31	5.31	32.70	5
182	192	4052.2	7119.1	24	3	2010	10:28	55	5.45	32.39	5.41	32.84	2
183	193	4057.2	7122.9	24	3	2010	12:16	48	5.07	32.34	5.04	32.62	5
184	194	4050.9	7138.9	24	3	2010	14:40	58	5.00	32.03	5.24	32.69	6
185	195	4104.5	7135.0	24	3	2010	17:04	38	4.57	31.42	4.68	32.44	6
186	196	4110.8	7129.3	24	3	2010	19:07	38	5.68	30.67	4.29	32.13	5
187	197	4122.0	7107.5	24	3	2010	23:28	27	5.71	31.34	4.49	32.12	5
188	199	4122.3	7106.0	25	3	2010	2:02	23	5.69	31.45	5.15	31.99	5
189	200	4047.1	7041.7	31	3	2010	20:52	58	6.14	32.61	5.96	32.73	3
190	201	4027.5	7029.5	1	4	2010	0:01	74	6.54	32.92	7.58	33.46	4

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191	202	4039.4	7003.0	1	4	2010	3:22	50	5.85	32.55	5.78	32.57	4
192	203	4027.2	7006.2	1	4	2010	5:25	72	7.17	33.18	6.98	33.24	3
193	204	4024.6	7004.8	1	4	2010	6:41	75	7.17	33.20	7.33	33.38	4
194	205	4011.9	7022.3	1	4	2010	9:18	112	8.02	33.60	10.75	34.85	4
195	206	4002.1	7012.9	1	4	2010	13:23	201	8.70	33.93	12.06	35.49	8
196	207	3957.3	7001.8	1	4	2010	17:22	243	8.91	33.98	11.87	35.53	8
197	208	3957.5	6941.3	1	4	2010	19:36	140	11.43	35.05	12.20	35.58	8
198	209	4010.3	6945.3	1	4	2010	21:47	94	7.41	33.36	10.06	34.50	7
199	210	4000.4	6928.9	2	4	2010	0:24	110	11.75	35.15	12.68	35.64	7
200	211	3958.2	6924.2	2	4	2010	1:58	111	12.16	35.32	12.68	35.63	6
201	212	4001.7	6905.0	2	4	2010	5:04	225	12.95	35.56	11.80	35.52	2
202	213	4003.9	6910.5	2	4	2010	5:54	146	12.14	35.32	12.74	35.60	2
203	214	4027.2	6928.6	2	4	2010	9:30	65	5.89	32.69	5.95	32.73	2
204	215	4035.6	6853.2	2	4	2010	13:04	68	6.28	32.72	6.30	32.74	3
205	216	4043.4	6847.6	2	4	2010	15:01	66	6.04	32.56	6.03	32.59	4
206	217	4048.3	6831.1	2	4	2010	17:46	56	6.17	32.66	6.15	32.65	6
207	218	4039.9	6837.7	2	4	2010	19:37	61	6.43	32.83	6.32	32.86	5
208	219	4035.0	6841.8	2	4	2010	21:27	64	6.50	32.90	6.43	32.92	6
209	220	4018.5	6845.7	2	4	2010	23:52	97	6.78	33.10	8.50	33.89	3
210	221	4008.8	6844.3	3	4	2010	2:10	160	12.02	35.23	12.61	35.58	5
211	222	4013.0	6833.8	3	4	2010	5:37	195	12.28	35.32	12.67	35.60	5
212	223	4018.4	6830.5	3	4	2010	6:43	115	10.31	34.54	12.04	35.32	1
213	224	4035.4	6803.9	3	4	2010	9:52	92	6.42	32.99	7.48	33.51	5
214	225	4045.7	6811.2	3	4	2010	11:51	62	6.22	32.77	6.29	32.84	3
215	226	4043.2	6754.3	3	4	2010	14:00	77	6.31	32.95	6.25	32.96	2
216	227	4030.9	6741.0	3	4	2010	16:17	137	7.26	33.33	11.80	35.15	5
217	228	4037.5	6734.1	3	4	2010	18:08	93	6.40	32.92	9.28	34.25	1

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CTD Cast #	Station #	Lat Deg N	Long Deg W	Day	Month	Year	Time GMT	Bottom Depth (m)	Surface Temp. Deg C	Surface Salinity PSU	Bottom Temp. Deg C	Bottom Salinity PSU	Meters From Bottom
218	229	4051.1	6732.2	3	4	2010	20:10	78	6.36	32.84	6.13	32.90	6
219	230	4036.3	6708.8	3	4	2010	23:00	146	9.90	34.28	12.13	35.33	3
220	231	4033.9	6704.6	4	4	2010	2:10	247	11.13	34.87	12.15	35.57	6
221	232	4044.2	6650.0	4	4	2010	4:48	190	10.07	34.55	12.52	35.61	2
222	233	4051.0	6643.1	4	4	2010	6:01	117	6.72	33.15	12.27	35.44	6
223	234	4101.6	6640.1	4	4	2010	8:07	80	5.45	32.64	8.06	33.83	2
224	235	4100.7	6654.3	4	4	2010	9:58	73	5.70	32.68	5.94	32.91	4
225	236	4118.5	6643.2	4	4	2010	12:38	78	5.78	32.61	5.40	32.65	2
226	237	4121.2	6635.6	4	4	2010	14:16	87	4.97	32.18	5.64	32.85	4
227	238	4115.9	6632.7	4	4	2010	15:55	88	4.88	31.88	6.32	33.18	5
228	239	4106.0	6624.0	4	4	2010	17:55	147	5.68	32.62	12.26	35.56	3
229	240	4120.8	6611.3	4	4	2010	20:28	164	7.68	33.36	10.84	35.10	1
230	241	4130.5	6634.7	5	4	2010	1:22	86	5.11	32.41	5.03	32.49	6
231	242	4135.2	6637.7	5	4	2010	2:13	78	4.92	32.39	4.93	32.40	4
232	243	4152.7	6650.9	5	4	2010	4:37	70	5.78	32.65	5.79	32.65	4
233	244	4205.6	6652.8	5	4	2010	6:34	67	5.86	32.72	5.80	32.73	2
234	245	4208.2	6644.6	5	4	2010	7:55	82	5.75	32.57	5.77	32.76	1
235	246	4210.5	6634.1	5	4	2010	10:31	190	4.99	32.00	8.88	34.54	2
236	247	4155.8	6632.7	5	4	2010	12:07	83	5.63	32.67	5.61	32.67	5
237	248	4156.0	6617.9	5	4	2010	14:18	83	4.66	31.99	5.72	32.80	4
238	249	4147.2	6608.5	5	4	2010	17:01	88	5.21	31.89	5.56	32.76	5
239	250	4144.3	6559.2	5	4	2010	19:06	105	5.42	31.96	5.26	32.77	6
240	251	4143.3	6552.0	5	4	2010	22:27	124	4.58	31.83	9.46	34.62	2
241	252	4144.6	6546.5	6	4	2010	1:16	190	5.15	32.06	9.69	35.23	2
242	254	4159.4	6550.9	6	4	2010	4:52	187	8.33	33.59	9.15	35.18	3
243	255	4211.3	6550.9	6	4	2010	6:19	244	6.07	32.83	9.97	35.28	33
244	255	4212.4	6551.9	6	4	2010	8:11	240	6.18	32.90	9.66	35.25	4

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CTD Cast #	Station #	Lat Deg N	Long Deg W	Day	Month	Year	Time GMT	Bottom Depth (m)	Surface Temp. Deg C	Surface Salinity PSU	Bottom Temp. Deg C	Bottom Salinity PSU	Meters From Bottom
245	256	4217.6	6559.4	6	4	2010	9:15	239	4.74	31.92	10.71	35.17	34
246	256	4219.5	6558.9	6	4	2010	10:46	240	4.33	31.83	10.73	35.30	3
247	257	4225.4	6611.0	6	4	2010	13:22	246	4.03	31.72	10.40	35.18	5
248	258	4224.2	6623.9	6	4	2010	14:40	262	5.73	32.03	11.07	35.21	47
249	258	4224.9	6627.2	6	4	2010	16:37	275	5.67	32.02	11.14	35.26	5
250	259	4235.4	6633.6	6	4	2010	18:06	182	5.58	32.07	9.48	34.83	3
251	260	4235.1	6714.9	6	4	2010	22:55	280	5.30	31.97	8.60	34.99	7
252	261	4232.6	6711.4	6	4	2010	23:43	314	5.56	31.98	8.68	34.87	109
253	261	4230.2	6708.5	7	4	2010	1:30	332	5.09	31.82	8.32	35.02	4
254	262	4223.9	6706.9	7	4	2010	4:07	360	5.44	31.79	8.31	35.03	2
255	263	4223.4	6719.9	7	4	2010	6:50	337	5.62	32.22	8.40	35.03	1
256	264	4213.9	6710.7	7	4	2010	9:31	216	5.10	31.66	8.59	34.94	13
257	265	4210.6	6726.1	7	4	2010	12:33	221	4.85	31.67	8.55	34.93	2
258	266	4203.6	6737.8	7	4	2010	13:56	139	6.20	32.30	5.73	32.91	4
259	267	4038.0	7022.1	13	4	2010	23:47	58	7.55	32.08	5.95	32.67	4
260	268	4049.6	6853.2	14	4	2010	6:43	68	6.34	32.56	6.36	32.56	1
261	269	4053.9	6857.8	14	4	2010	8:46	73	6.21	32.49	6.23	32.50	3
262	270	4103.1	6901.5	14	4	2010	11:26	83	6.89	31.98	5.13	32.44	5
263	271	4122.7	6907.4	14	4	2010	14:04	157	7.29	31.95	5.28	32.69	3
264	272	4138.7	6910.1	14	4	2010	17:10	177	7.40	32.31	6.01	33.04	3
265	273	4141.3	6847.7	14	4	2010	19:28	157	6.93	32.35	6.01	33.11	3
266	274	4139.4	6834.4	14	4	2010	21:42	164	7.01	32.30	7.34	33.89	6
267	275	4136.0	6837.1	15	4	2010	1:32	138	6.57	32.37	5.61	32.85	2
268	276	4130.1	6830.1	15	4	2010	3:25	97	7.12	32.53	5.74	32.67	4
269	277	4121.1	6831.1	15	4	2010	5:04	70	7.06	32.35	5.94	32.55	2
270	278	4121.9	6843.3	15	4	2010	6:43	99	6.96	32.47	5.29	32.62	3
271	279	4120.2	6847.7	15	4	2010	8:07	113	6.92	32.45	5.31	32.69	5

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272	280	4114.5	6847.5	15	4	2010	9:55	83	7.04	32.10	5.34	32.61	3
273	281	4117.4	6828.9	15	4	2010	12:15	58	6.73	32.48	6.07	32.53	3
274	282	4117.8	6810.7	15	4	2010	14:49	47	6.86	32.45	6.84	32.45	6
275	283	4108.7	6759.2	15	4	2010	17:23	41	7.14	32.44	6.92	32.45	3
276	284	4119.4	6741.2	15	4	2010	20:40	40	7.29	32.59	7.27	32.59	5
277	285	4111.6	6740.0	15	4	2010	22:17	51	7.17	32.56	7.17	32.56	3
278	286	4114.4	6703.0	16	4	2010	1:45	65	6.76	32.64	6.48	32.72	4
279	287	4116.8	6701.6	16	4	2010	3:05	66	6.50	32.66	6.40	32.70	1
280	288	4117.3	6708.0	16	4	2010	4:40	58	6.72	32.76	6.73	32.76	5
281	289	4141.9	6715.0	16	4	2010	7:43	59	6.74	32.65	6.75	32.64	5
282	290	4142.9	6711.7	16	4	2010	9:22	54	6.64	32.60	6.65	32.60	6
283	291	4153.5	6716.4	16	4	2010	11:22	52	5.98	32.28	6.35	32.43	4
284	294	4157.8	6717.2	16	4	2010	14:25	53	5.94	32.28	5.93	32.28	3
285	295	4155.0	6729.1	16	4	2010	16:25	56	6.47	32.48	6.48	32.49	1
286	296	4142.4	6754.3	16	4	2010	19:51	30	6.85	32.59	6.90	32.58	2
287	297	4145.8	6757.4	16	4	2010	21:31	35	6.53	32.60	6.55	32.59	5
288	298	4153.2	6751.0	17	4	2010	0:28	48	6.15	32.48	6.13	32.49	1
289	299	4158.6	6752.0	17	4	2010	3:34	113	6.14	32.39	5.79	32.88	3
290	300	4204.6	6800.7	17	4	2010	5:37	211	6.64	32.17	8.62	34.72	2
291	301	4211.8	6810.8	17	4	2010	8:23	169	5.76	31.85	7.60	33.79	8
292	302	4212.3	6746.6	17	4	2010	11:49	222	5.90	31.91	9.01	34.93	6
293	303	4222.4	6757.3	17	4	2010	14:04	177	6.35	32.07	7.39	33.71	5
294	304	4246.9	6758.7	17	4	2010	17:31	209	6.42	32.27	7.35	33.81	3
295	305	4310.0	6823.9	17	4	2010	22:40	181	5.72	31.88	6.99	33.47	4
296	306	4304.8	6806.3	18	4	2010	2:32	176	5.49	31.79	7.04	33.50	8
297	307	4300.4	6751.8	18	4	2010	6:35	207	5.51	31.89	7.39	33.74	6
298	308	4300.5	6734.1	18	4	2010	8:04	194	5.35	31.77	8.38	34.41	5

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CTD Cast #	Station #	Lat Deg N	Long Deg W	Day	Month	Year	Time GMT	Bottom Depth (m)	Surface Temp. Deg C	Surface Salinity PSU	Bottom Temp. Deg C	Bottom Salinity PSU	Meters From Bottom
299	309	4250.8	6706.5	18	4	2010	12:31	218	5.13	31.61	8.77	34.57	4
300	309	4250.3	6706.5	18	4	2010	12:56	212	5.21	31.63	9.05	34.68	10
301	310	4318.2	6640.7	18	4	2010	17:27	105	4.76	31.73	5.63	32.70	2
302	311	4326.6	6644.0	18	4	2010	18:28	158	5.00	31.90	6.71	33.34	4
303	312	4332.1	6649.3	18	4	2010	20:28	153	5.00	31.79	7.57	33.83	3
304	313	4337.1	6658.0	18	4	2010	22:57	151	5.43	31.80	7.32	33.69	5
305	314	4339.0	6709.8	19	4	2010	2:12	152	4.77	31.46	7.58	33.81	5
306	315	4351.7	6643.2	19	4	2010	4:43	120	4.28	31.45	5.05	32.35	2
307	316	4409.7	6642.9	19	4	2010	8:16	124	4.82	31.65	6.11	32.99	7
308	317	4416.3	6643.9	19	4	2010	10:30	185	4.76	31.76	7.01	33.49	4
309	318	4414.7	6710.7	19	4	2010	13:53	163	4.89	31.73	7.43	33.69	5
310	319	4420.8	6713.1	19	4	2010	16:16	167	4.98	31.66	7.01	33.44	4
311	320	4418.6	6733.8	19	4	2010	18:42	94	5.14	31.70	5.53	32.53	4
312	321	4418.0	6729.2	19	4	2010	20:16	120	4.94	31.60	4.98	32.35	5
313	322	4410.0	6719.0	19	4	2010	22:37	186	4.95	31.62	7.83	33.90	4
314	323	4400.7	6718.0	20	4	2010	2:17	244	5.35	31.60	8.16	34.10	3
315	324	4401.9	6727.3	20	4	2010	5:01	203	5.12	31.62	8.39	34.24	5
316	326	4409.4	6753.2	20	4	2010	8:46	100	4.82	31.68	4.71	32.06	7
317	327	4359.7	6752.9	20	4	2010	12:04	130	4.99	31.73	5.71	32.78	3
318	328	4333.9	6755.3	20	4	2010	16:45	234	5.67	31.58	8.35	34.31	2
319	329	4332.4	6805.3	20	4	2010	17:46	191	5.95	31.62	7.84	34.03	5
320	330	4333.1	6817.3	20	4	2010	20:42	196	6.67	31.80	7.17	33.65	2
321	331	4353.2	6810.0	21	4	2010	2:19	176	5.58	31.66	6.84	33.43	4
322	332	4358.9	6818.2	21	4	2010	3:52	100	5.52	31.63	4.68	32.31	3
323	333	4353.3	6831.7	21	4	2010	5:58	103	6.03	31.65	4.50	32.22	2
324	334	4356.9	6836.3	21	4	2010	8:06	94	6.06	31.49	4.19	31.94	3
325	335	4335.2	6900.3	21	4	2010	13:08	122	6.28	31.53	4.61	32.39	5

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326	336	4327.9	6921.9	21	4	2010	15:46	150	7.67	31.74	4.88	32.55	2
327	338	4326.7	6940.4	21	4	2010	22:25	99	7.61	30.51	4.46	32.33	2
328	339	4334.5	6944.3	22	4	2010	1:17	107	7.24	30.81	4.20	32.09	5
329	340	4334.5	6946.3	22	4	2010	3:47	107	7.63	30.47	4.18	32.09	6
330	341	4330.7	7006.4	22	4	2010	5:55	71	7.57	28.96	4.24	31.82	4
331	341	4328.2	7006.1	22	4	2010	7:10	96	6.99	29.74	4.34	32.11	3
332	342	4317.2	6943.1	22	4	2010	9:19	155	6.38	31.69	5.39	32.77	4
333	343	4312.7	6911.9	22	4	2010	13:48	184	6.42	31.63	6.15	33.05	3
334	344	4307.6	6853.8	22	4	2010	15:49	189	6.75	31.51	7.12	33.65	4
335	345	4254.3	6843.6	22	4	2010	18:47	202	6.94	31.68	7.49	33.86	3
336	346	4249.9	6843.1	22	4	2010	22:01	207	6.95	31.68	7.63	33.97	4
337	347	4240.4	6849.5	23	4	2010	0:09	156	6.43	31.54	6.27	33.15	5
338	348	4252.7	6902.3	23	4	2010	2:57	193	7.55	32.11	6.61	33.31	4
339	349	4220.3	7046.5	26	4	2010	20:00	28	8.84	29.84	4.46	31.66	4
340	350	4220.1	7041.2	26	4	2010	21:40	43	9.98	29.99	4.50	31.91	5
341	351	4219.8	7037.6	26	4	2010	23:25	65	9.02	30.27	4.46	32.10	3
342	352	4227.2	7015.8	27	4	2010	2:13	71	8.87	29.86	4.48	32.17	2
343	353	4226.7	7006.7	27	4	2010	3:49	81	8.76	30.62	4.56	32.28	3
344	355	4222.6	7000.0	27	4	2010	6:55	195	8.82	31.17	6.35	33.30	1
345	356	4224.0	6935.6	27	4	2010	10:10	240	7.77	31.83	7.03	33.86	3
346	357	4219.1	6918.8	27	4	2010	13:41	224	8.27	31.66	7.23	33.78	3
347	358	4211.9	6911.6	27	4	2010	17:07	198	7.71	31.96	6.40	33.34	4
348	359	4213.3	6852.8	27	4	2010	20:28	197	7.90	31.87	6.30	33.23	2
349	360	4233.5	6926.1	28	4	2010	2:22	239	7.73	31.91	7.00	33.87	2
350	361	4239.6	6922.4	28	4	2010	5:01	222	7.69	31.96	7.31	33.75	2
351	362	4257.9	6932.5	28	4	2010	7:52	157	7.31	31.94	6.21	33.16	3
352	363	4231.8	6949.4	28	4	2010	13:10	245	7.30	31.96	7.03	33.86	3

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353	364	4234.1	7005.5	28	4	2010	14:56	106	7.77	31.59	4.61	32.34	5
354	365	4245.1	7008.6	28	4	2010	17:52	133	7.97	30.75	4.99	32.57	5
355	366	4252.6	7005.4	28	4	2010	20:07	105	7.96	30.60	4.50	32.23	4
356	367	4249.0	7022.9	28	4	2010	22:32	130	8.58	29.98	4.36	32.27	5
357	368	4247.3	7041.1	29	4	2010	1:19	46	8.32	29.76	4.49	31.85	6
358	369	4248.0	7044.4	29	4	2010	2:52	35	8.23	29.58	4.82	31.53	4
359	370	4232.0	7032.7	29	4	2010	5:58	61	8.38	29.51	4.53	32.07	2
360	371	4231.1	7040.9	29	4	2010	9:01	54	8.58	28.56	4.50	31.89	4
361	372	4218.4	7039.9	29	4	2010	12:06	45	7.99	29.96	4.41	31.80	6
362	373	4213.2	7035.8	29	4	2010	14:16	37	8.37	29.94	5.34	31.43	3
363	374	4213.3	7031.4	29	4	2010	15:52	56	7.67	30.49	4.36	31.98	5
364	375	4215.0	7031.3	29	4	2010	16:58	66	8.39	30.02	4.38	32.00	5
365	376	4213.0	7025.1	29	4	2010	18:46	69	7.71	30.54	4.27	32.01	5
366	377	4206.2	7026.0	29	4	2010	20:49	58	7.08	30.73	4.10	31.79	4
367	378	4200.5	7034.0	29	4	2010	23:13	28	7.76	30.42	7.55	30.54	4
368	379	4200.7	7027.8	30	4	2010	0:45	41	7.78	30.63	4.81	31.44	4
369	380	4159.3	7017.4	30	4	2010	2:37	45	8.30	30.46	4.92	31.40	3
370	381	4156.9	7020.1	30	4	2010	4:05	42	8.46	30.51	4.98	31.26	3
371	382	4151.0	7019.8	30	4	2010	6:01	29	8.86	30.54	7.03	30.82	3
372	383	4157.6	7008.6	30	4	2010	8:19	26	9.17	30.54	9.06	30.55	6
373	384	4159.5	7013.9	30	4	2010	9:58	39	9.05	30.52	8.35	30.64	4
374	385	4212.6	7008.3	30	4	2010	12:28	45	7.19	30.51	4.89	31.74	6
375	387	4206.8	7010.6	30	4	2010	19:15	48	8.14	30.64	5.43	31.32	3
376	388	4214.7	6954.4	30	4	2010	23:04	189	7.06	31.99	6.09	33.15	4
377	389	4213.8	6946.9	1	5	2010	1:19	231	7.08	32.00	6.94	33.79	2
378	389	4213.9	6946.7	1	5	2010	1:43	231	7.05	32.00	6.92	33.74	28
379	390	4159.5	6936.8	1	5	2010	4:43	213	7.29	32.01	6.75	33.63	3

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380	391	4144.7	6952.7	1	5	2010	7:52	25	7.56	30.60	6.70	31.04	6
381	392	4146.2	6952.9	1	5	2010	8:58	26	7.72	30.58	6.55	31.10	5
382	393	4148.2	6953.7	1	5	2010	9:51	26	7.89	30.54	6.83	30.98	4
383	394	4142.2	6940.4	1	5	2010	12:15	97	7.33	31.77	4.76	32.31	3
384	395	4132.6	6937.8	1	5	2010	14:15	35	7.23	31.30	6.43	31.54	5
385	396	4132.4	6933.9	1	5	2010	16:15	45	6.96	31.37	6.28	31.65	4
386	397	4129.9	6938.2	1	5	2010	16:51	33	7.20	31.12	6.91	31.18	4
387	399	4128.6	6925.0	1	5	2010	19:12	52	9.47	31.44	6.36	31.90	4
388	400	4107.6	6917.5	1	5	2010	22:37	52	6.80	31.92	6.78	31.94	2
389	401	4110.5	6918.2	2	5	2010	0:26	49	6.89	31.71	6.17	32.10	4
390	402	4105.4	6915.7	2	5	2010	2:22	59	7.37	31.95	6.70	32.03	5
391	403	4054.0	7007.5	2	5	2010	10:16	27	8.76	31.19	8.66	31.36	5