

Oceanography Branch CTD Data Report
CTD_REPORT_2012001HB

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DATE: February 10, 2016

Oceanography Branch CTD Data Report

CTD_REPORT_2012001HB

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

HB 12-01
Spring Bottom Trawl Survey
Data Coverage: February 29– May 04, 2012

This report presents a summary of surface and bottom temperature and salinity data collected during the Northeast Fisheries Science Center's 2012 Spring Bottom Trawl survey aboard the NOAA FSV *Henry B. Bigelow*. All data was obtained with Seabird Electronics SBE Model 19/19+ profiling CTD (s/n 2879 & 4477). No salinity correction was needed.

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/nodc_files/hb1201.dat

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

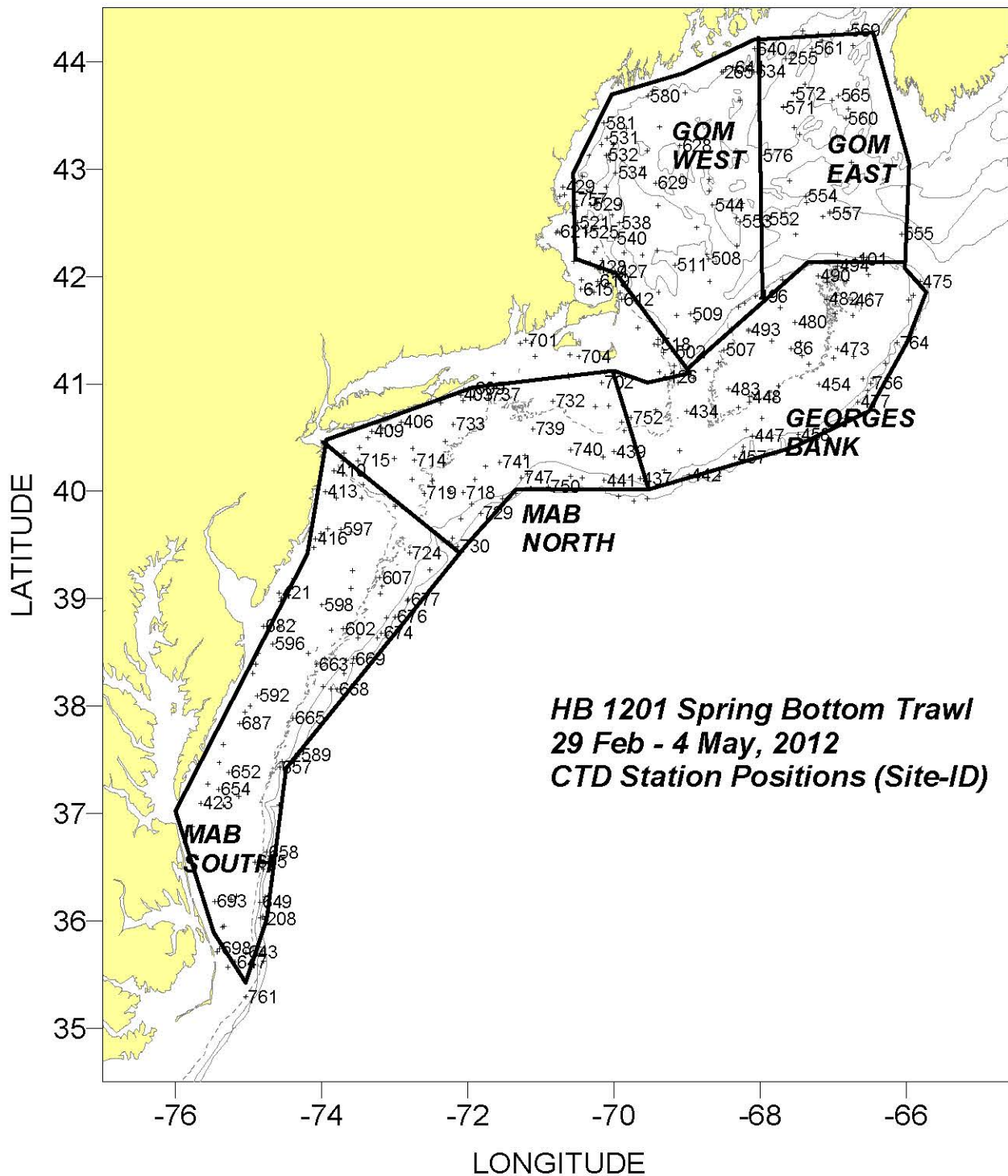
<http://www.nefsc.noaa.gov/HydroAtlas/>

choose: **2012 Cruises**

FEB_TRAWL_HB1201

CTD_REPORT_2012001HB.pdf

Revised: February 10, 2016



HB1201 Spring Bottom Trawl
29 Feb - 04 May 2012

		SURFACE						BOTTOM						
CRUISE	CD	#obs	T/S	Anomaly	SDV1	SDV2	Flag	#obs	T/S	Anomaly	SDV1	SDV2	Flag	Purpose
Western Gulf of Maine														
HB1201	113	58	7.40	1.96	0.14	0.71	0	57	7.16	2.00	0.12	0.62	0	10
HB1201	113	58	32.38	-0.12	0.09	0.38	0	57	33.43	0.11	0.07	0.27	0	10
Eastern Gulf of Maine														
HB1201	107	33	6.64	1.70	0.17	0.74	0	29	8.15	1.14	0.18	0.83	0	10
HB1201	107	33	32.21	-0.30	0.12	0.30	0	29	34.25	0.20	0.09	0.34	0	10
Georges Bank														
HB1201	101	57	7.22	1.90	0.15	0.79	0	44	7.11	1.84	0.18	0.93	0	10
HB1201	101	56	32.79	-0.22	0.09	0.30	0	43	32.91	-0.24	0.11	0.33	0	10
MAB North														
HB1201	85	55	8.83	4.16	0.17	1.50	0	46	8.90	3.72	0.22	1.61	0	10
HB1201	85	55	32.66	-0.22	0.11	0.40	0	46	33.29	-0.08	0.13	0.52	0	10
MAB South														
HB1201	71	79	10.51	4.35	0.14	1.55	0	67	9.95	4.05	0.19	1.48	0	10
HB1201	71	79	32.84	-0.31	0.11	0.84	0	67	33.58	0.13	0.11	0.43	0	10

calendar mid-date of all the stations within a region for a cruise:

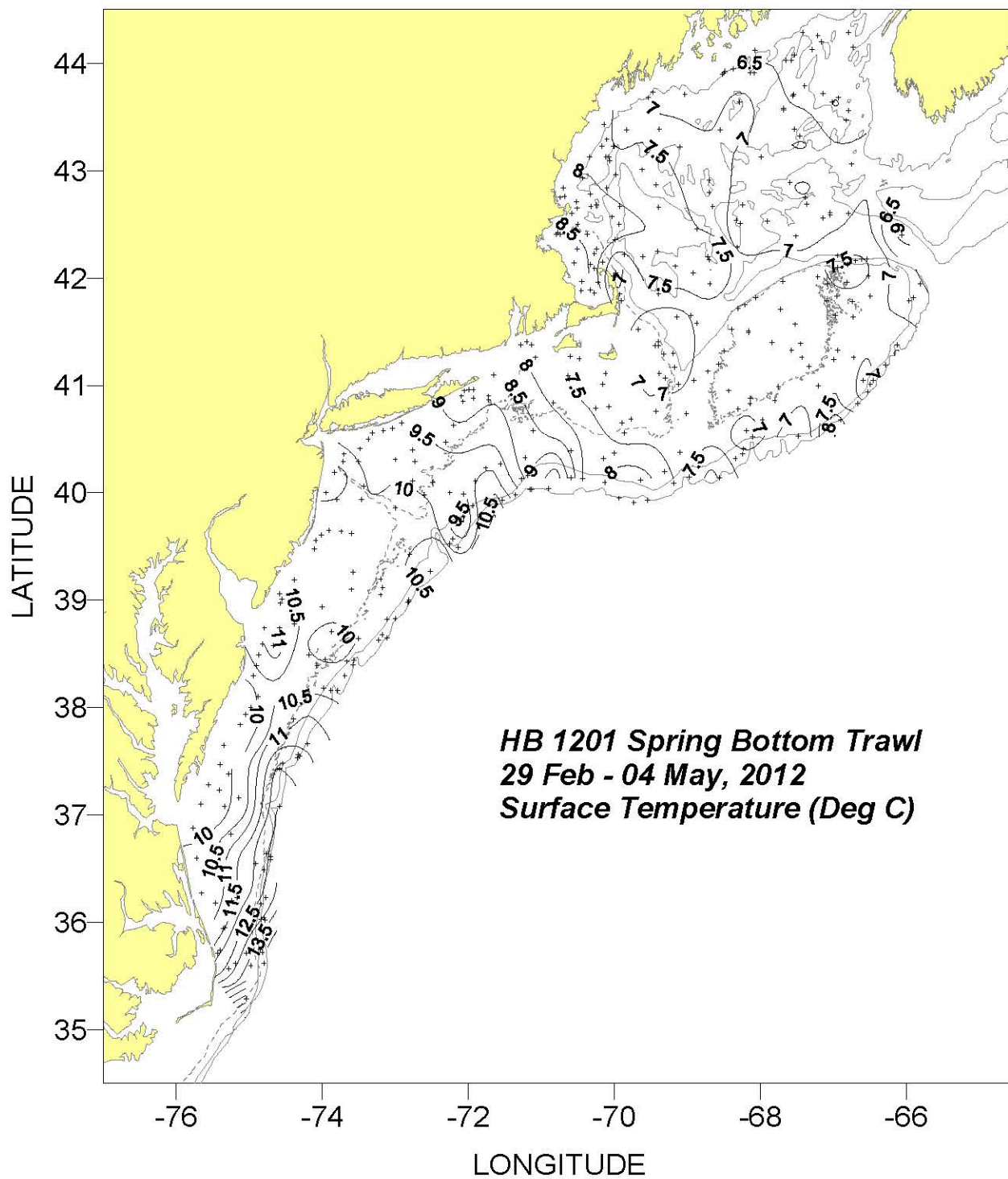
5", the areal average temp/salt: "Anomaly", the areal average temp/salt anomaly:

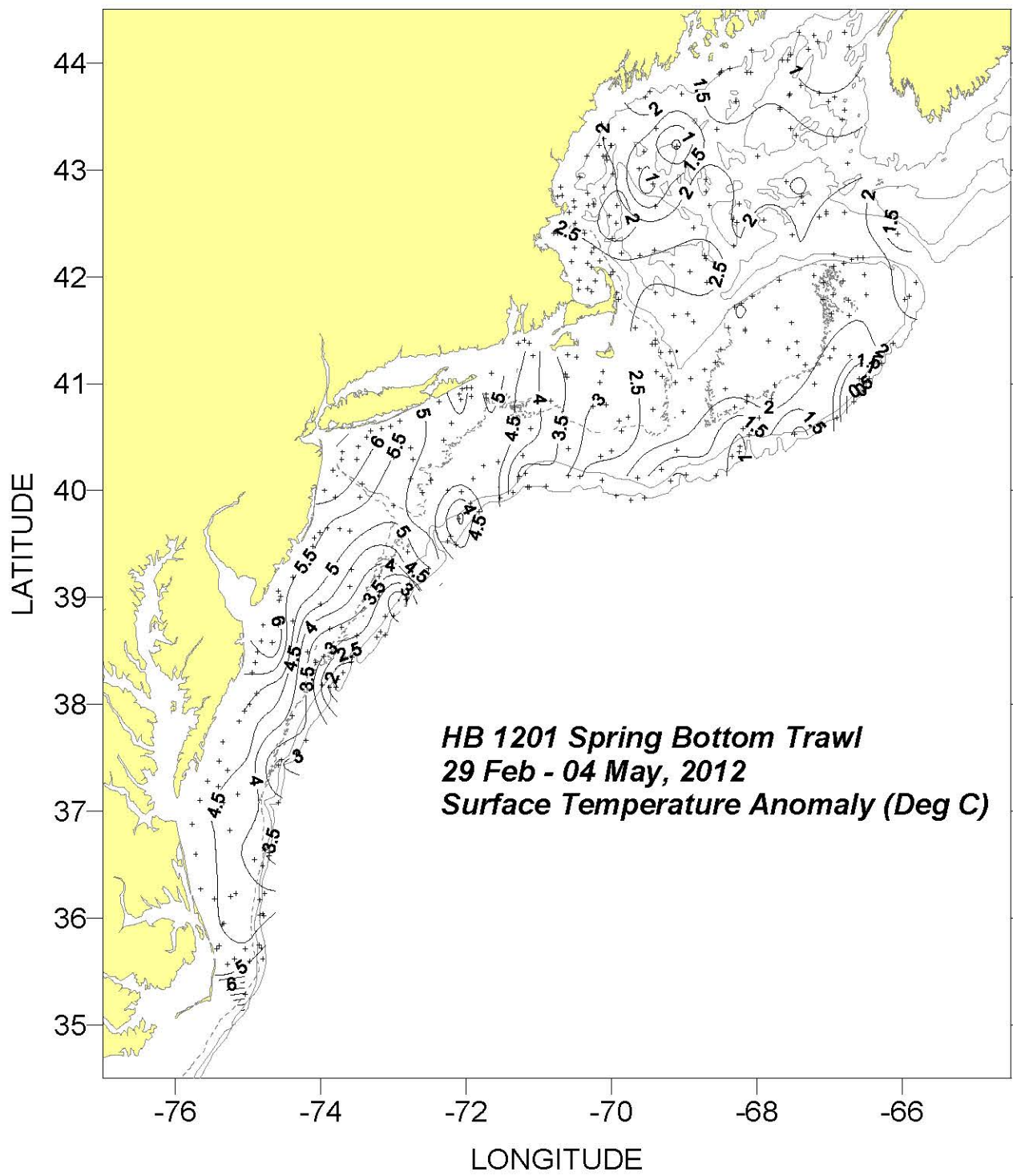
2", the standard deviation of the individual anomalies from which the average anomaly was derived

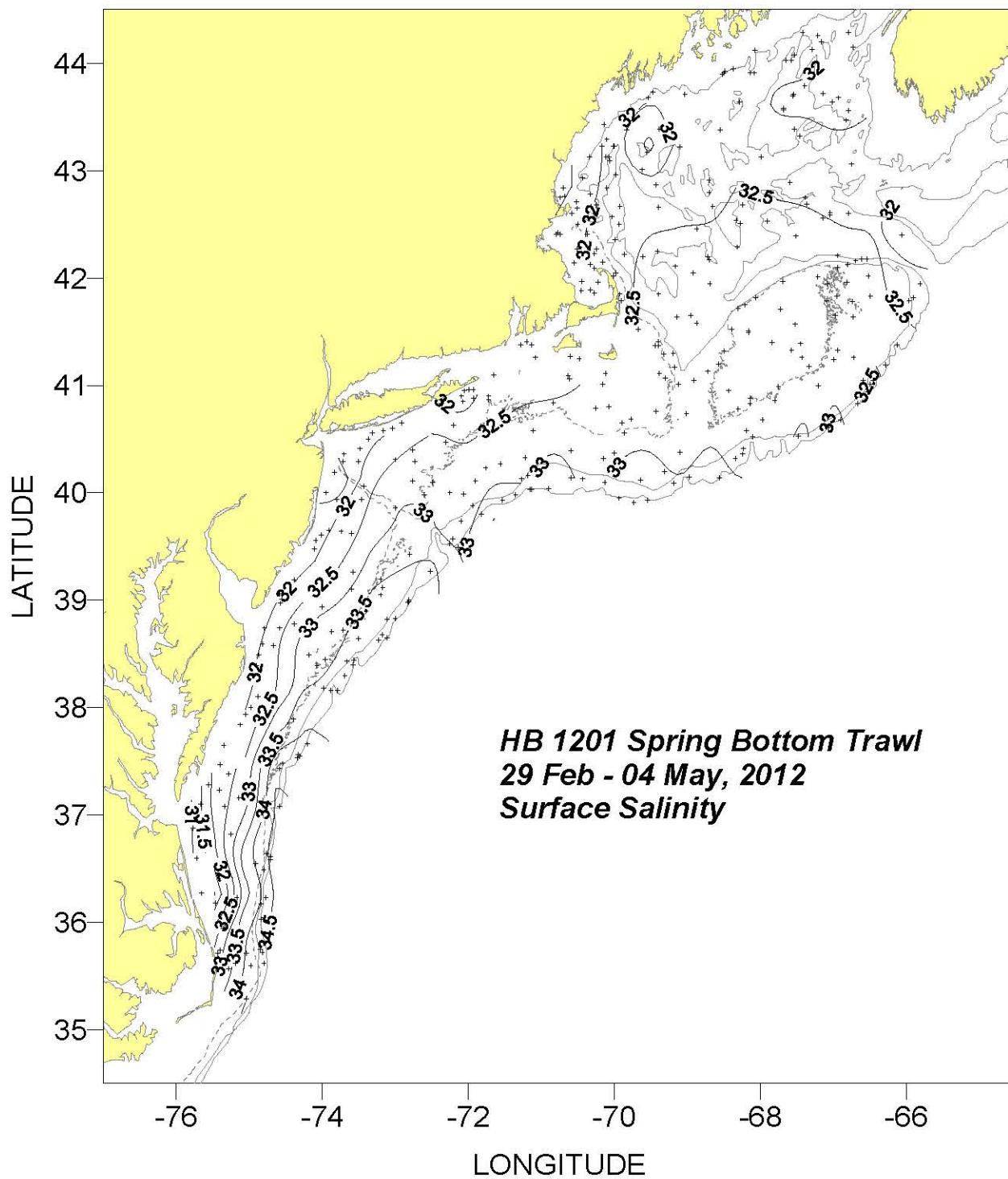
ie to poor station coverage. The areal averages listed were derived from a simple average of the

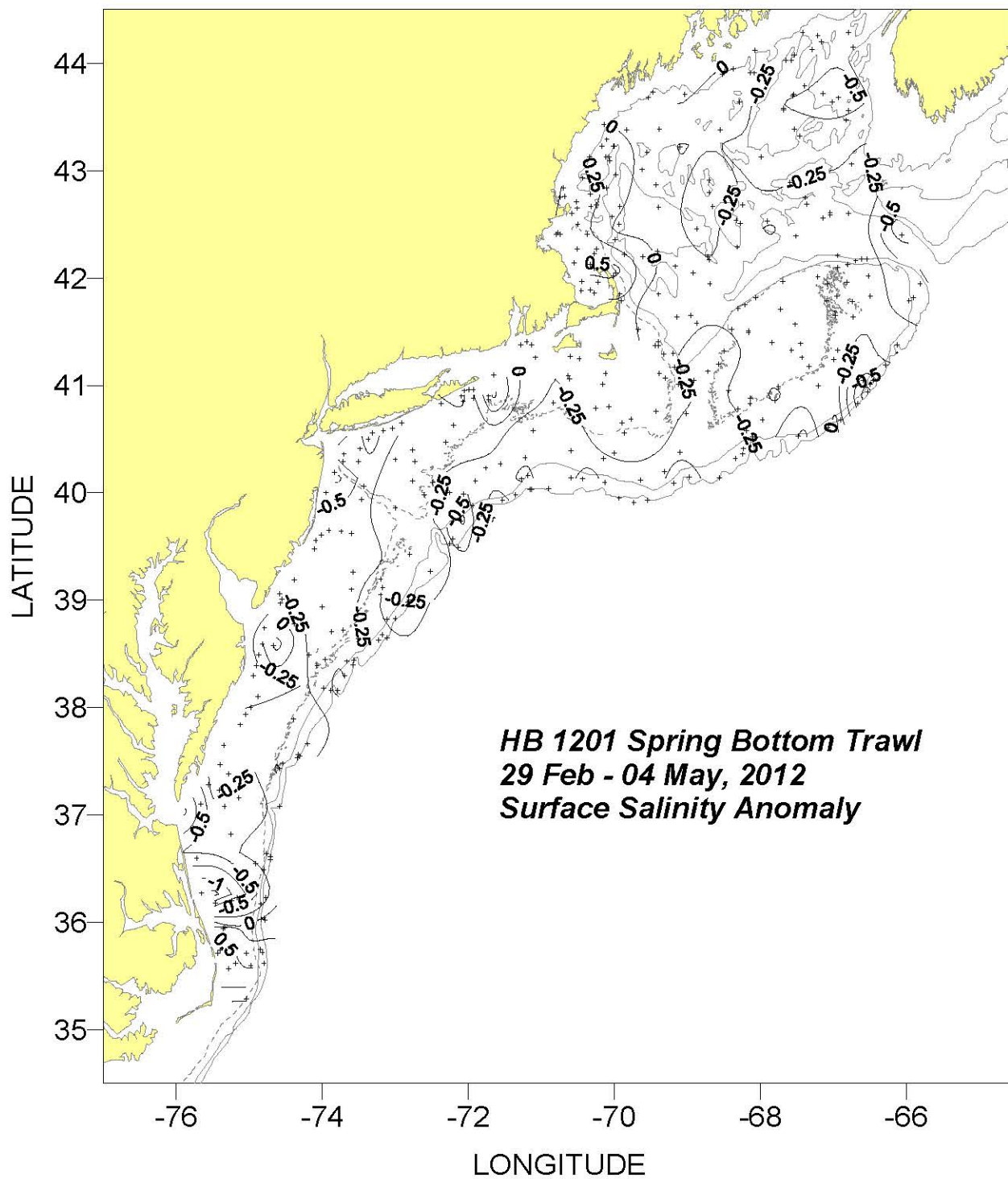
ions within the region.

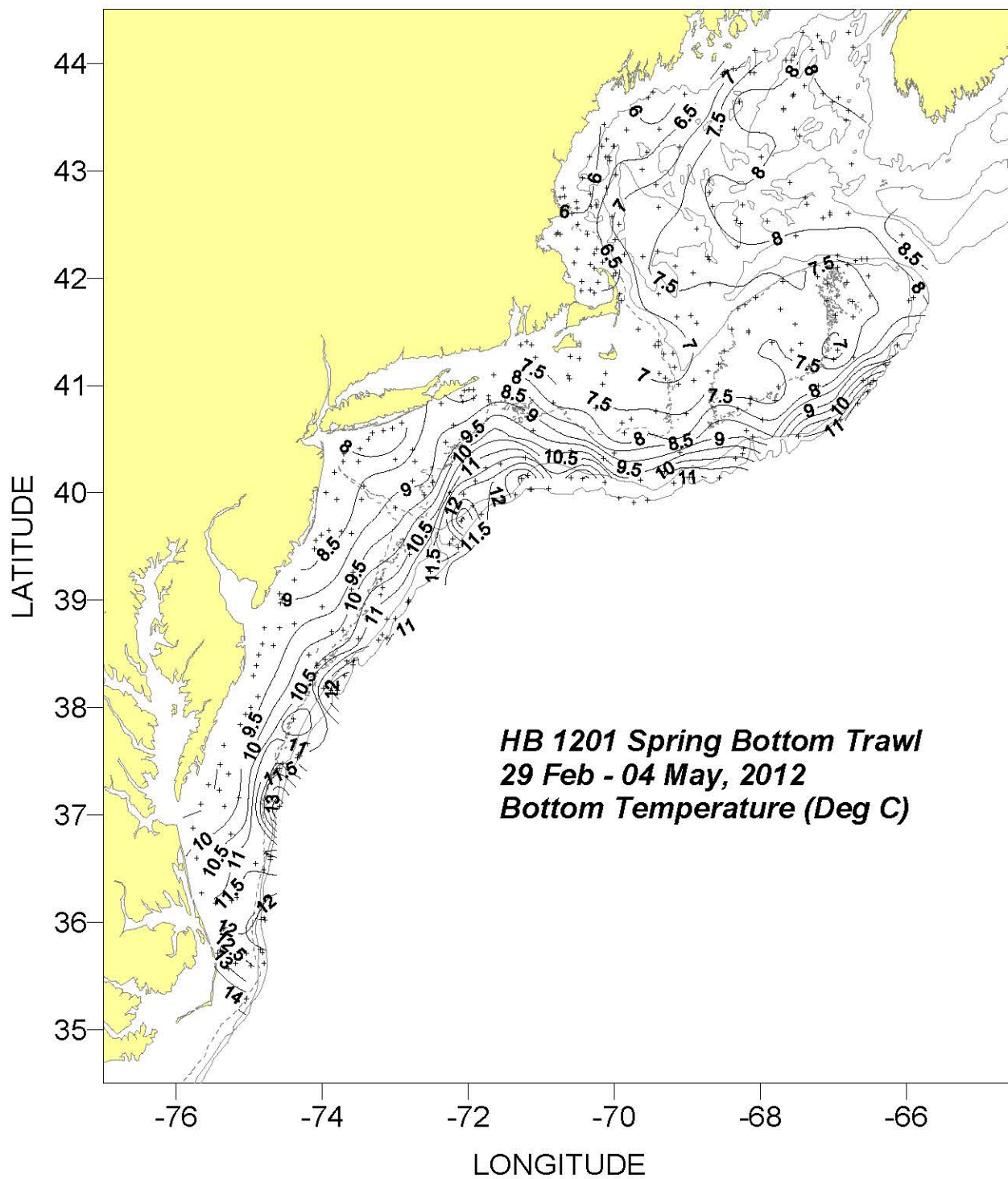
DMS to identify a unique NEFSC program survey.

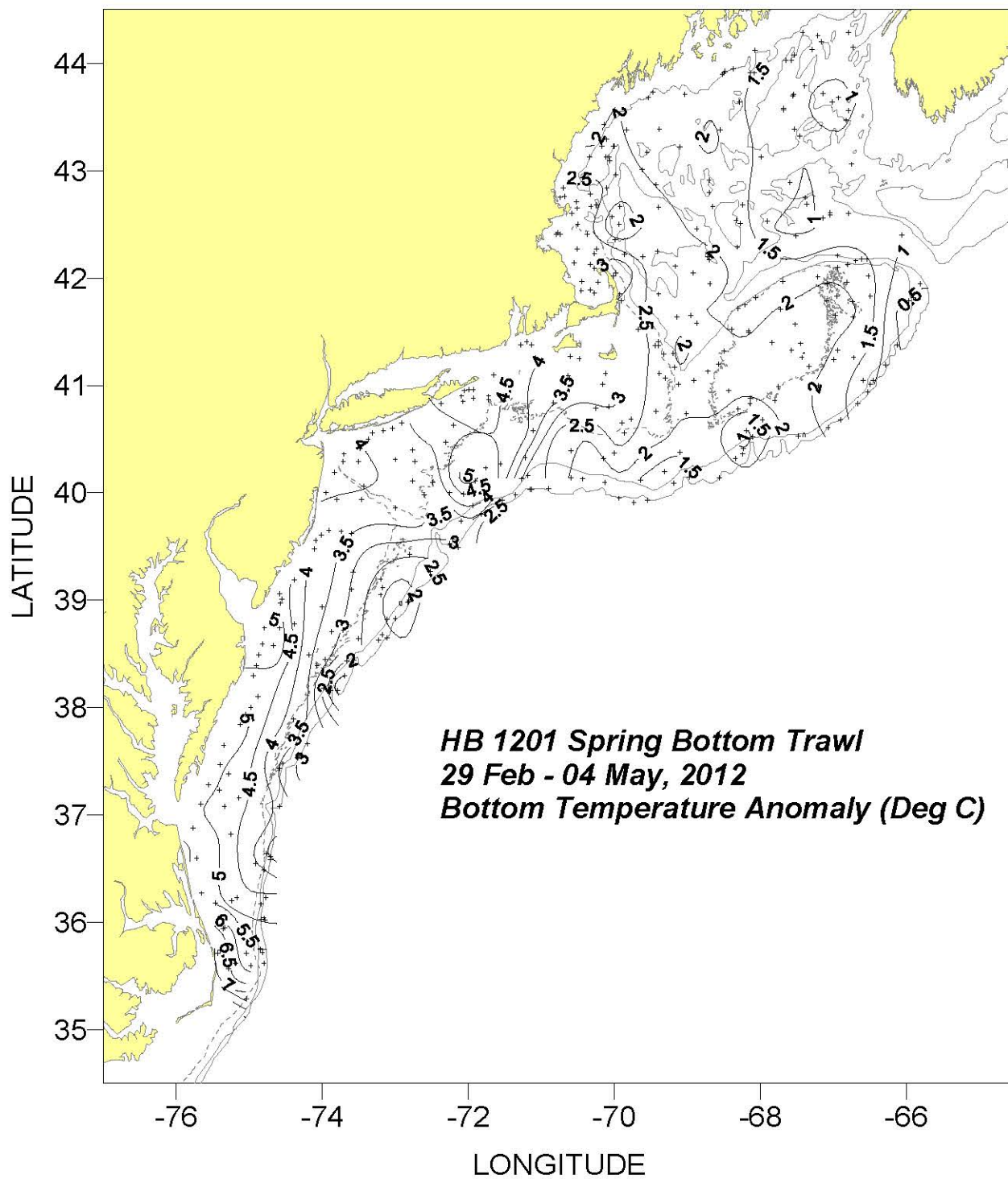


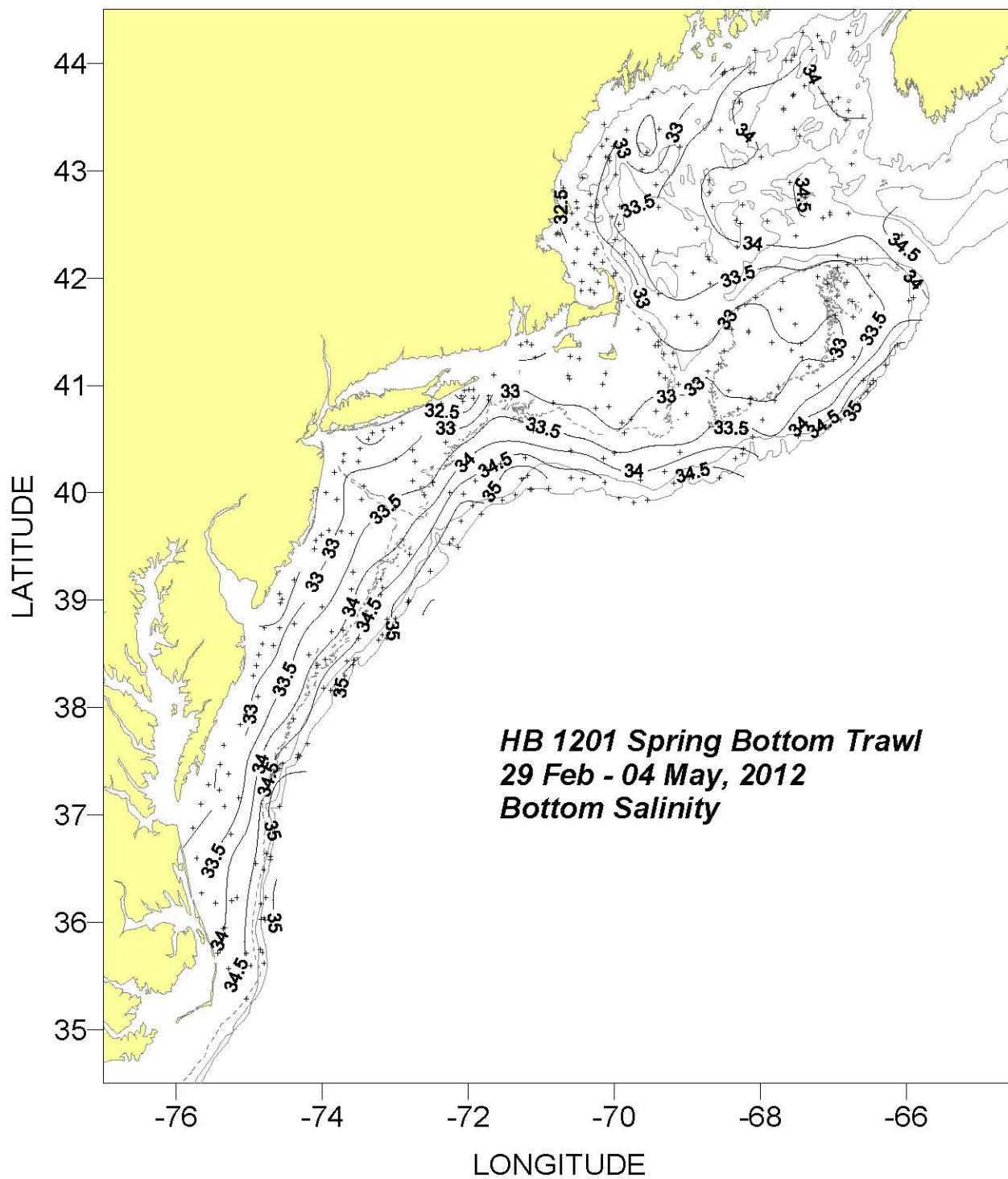


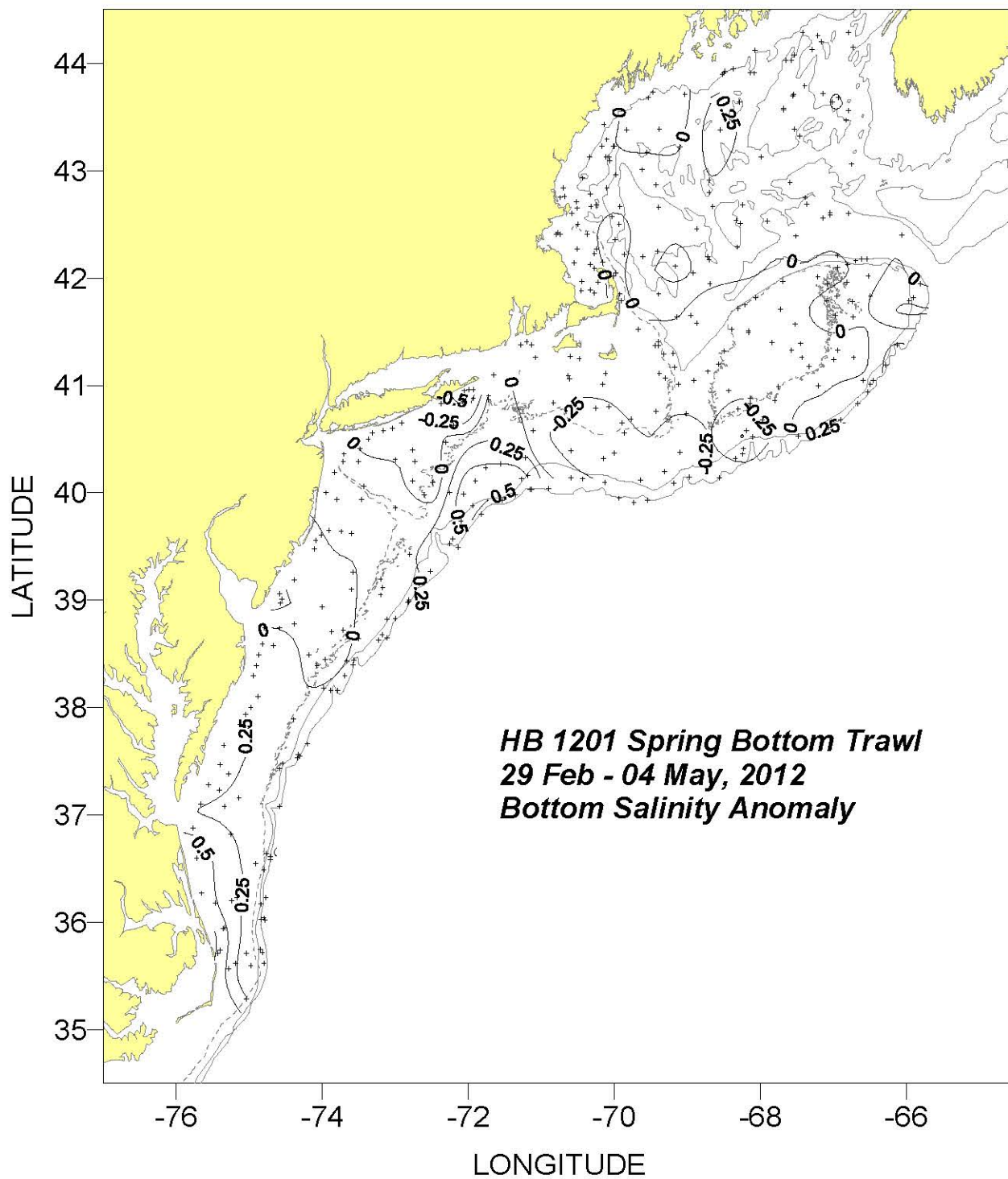












HB1201 Spring Bottom Trawl
29 Feb - 04 May 2012

Cast #	Site-ID #	Lat deg N	Long deg W	Day	Mo	Year	Time (GMT)	Btm Depth m	Surface Temp deg C	Surface Salinity PSU	Deepest Observed Temp deg C	Deepest Observed Salinity PSU	Meters from Bottom	Deployment Type
1	607	3911.7	7312.2	29	2	2012	9:01	65	9.16	33.63	10.28	34.18	5	B
2	604	3906.9	7310.2	29	2	2012	10:43	68	10.10	34.12	11.03	34.44	6	B
3	605	3902.9	7311.9	29	2	2012	13:01	73	10.41	34.22	11.90	34.73	3	W
4	677	3859.6	7248.6	29	2	2012	18:32	361	10.20	33.87	11.74	35.47	156	B
5	677	3859.8	7248.8	29	2	2012	19:17	262	10.32	33.93	9.77	35.27	6	W
6	679	3858.7	7249.6	29	2	2012	22:31	176	10.46	34.04	12.65	35.49	9	V
7	676	3849.9	7259.9	1	3	2012	2:04	117	10.59	33.99	12.97	35.43	5	V
8	603	3849.3	7306.5	1	3	2012	4:13	88	10.65	34.19	12.30	35.22	2	V
9	678	3839.2	7306.6	1	3	2012	6:48	450	10.46	34.05	6.08	35.02	13	W
10	674	3840.9	7310.9	1	3	2012	9:33	130	9.79	33.84	12.40	35.33	1	V
11	675	3838.0	7314.0	1	3	2012	11:03	123	10.67	34.01	12.82	35.43	4	V
12	606	3838.1	7330.1	1	3	2012	13:28	71	9.75	33.89	11.72	34.66	1	V
13	602	3843.2	7342.3	1	3	2012	18:36	58	8.81	33.09	9.13	33.62	8	B
14	595	3842.5	7352.0	1	3	2012	20:28	50	8.85	33.28	8.71	33.38	6	B
15	591	3829.4	7410.8	1	3	2012	23:19	52	9.71	33.69	10.16	33.93	5	B
16	663	3823.2	7404.2	2	3	2012	1:31	62	9.13	33.44	10.23	33.94	4	W
17	664	3826.7	7357.8	2	3	2012	3:22	58	9.25	33.57	9.40	33.67	5	V
18	667	3825.5	7339.8	2	3	2012	5:49	93	9.90	33.83	12.31	34.86	2	W
19	669	3826.4	7334.1	2	3	2012	8:38	151	10.35	34.07	13.00	35.26	3	V
20	673	3823.7	7334.6	2	3	2012	11:41	326	10.13	33.94	9.94	35.29	3	V
21	670	3818.2	7341.4	2	3	2012	15:08	121	11.37	34.31	12.84	35.06	3	V
22	668	3809.4	7347.4	2	3	2012	17:43	119	10.22	33.62	13.59	35.39	5	B
23	672	3809.6	7352.6	2	3	2012	20:21	135	10.47	33.73	13.07	35.17	9	B
24	666	3810.9	7358.9	2	3	2012	23:02	75	11.36	34.31	11.61	34.51	3	W
25	665	3753.2	7423.5	3	3	2012	2:57	63	10.59	34.13	10.57	34.13	2	V
26	671	3739.6	7412.1	3	3	2012	6:01	380	12.11	34.54	8.19	35.14	2	W
27	661	3733.7	7420.0	3	3	2012	8:37	133	11.95	34.52	13.42	35.21	3	V
28	589	3732.7	7418.7	3	3	2012	10:33	289	11.70	34.45	9.37	35.24	5	V
29	660	3731.8	7420.3	3	3	2012	12:52	181	12.09	34.54	13.77	35.41	3	V
30	659	3729.0	7432.5	3	3	2012	15:31	64	12.13	34.50	12.39	34.79	3	V
31	657	3725.8	7434.6	3	3	2012	16:47	78	12.20	34.52	12.46	34.82	5	W
32	662	3705.0	7435.0	3	3	2012	19:36	136	12.84	34.85	14.88	35.80	6	V
33	656	3709.4	7508.2	3	3	2012	23:17	31	9.46	32.78	9.37	33.23	2	B
34	654	3713.6	7524.8	4	3	2012	1:32	27	8.89	32.15	8.82	32.47	5	B
35	690	3716.6	7533.5	4	3	2012	3:31	20	8.78	31.68	8.61	32.02	4	V
36	653	3704.9	7520.5	4	3	2012	5:46	30	9.39	32.58	9.55	33.29	4	B
37	423	3705.8	7539.4	4	3	2012	8:25	17	8.99	31.95	8.93	32.27	5	B

HB1201 Spring Bottom Trawl
29 Feb - 04 May 2012

Cast #	Site-ID #	Lat deg N	Long deg W	Day	Mo	Year	Time (GMT)	Btm Depth m	Surface Temp deg C	Surface Salinity PSU	Deepest Observed Temp deg C	Deepest Observed Salinity PSU	Meters from Bottom	Deployment Type
38	424	3652.9	7546.0	4	3	2012	11:08	19	9.72	27.03	8.80	32.14	4	B
39	651	3649.3	7514.8	4	3	2012	19:55	31	9.77	33.10	10.14	33.66	2	W
40	658	3638.3	7445.4	4	3	2012	23:13	86	12.85	34.95	12.00	34.80	3	V
41	590	3636.3	7442.5	5	3	2012	1:25	282	13.08	35.01	13.08	35.49	85	B
42	590	3634.7	7442.7	5	3	2012	2:12	352	13.07	34.99	9.20	35.21	3	V
43	655	3632.9	7454.7	5	3	2012	4:55	40	11.53	34.50	11.57	34.51	4	B
44	648	3629.1	7448.0	5	3	2012	6:43	81	12.74	34.96	12.25	34.88	4	B
45	588	3613.5	7446.3	5	3	2012	9:10	205	13.35	35.06	12.78	35.59	2	W
46	649	3610.4	7450.6	5	3	2012	11:22	91	13.36	35.10	13.71	35.36	1	V
47	584	3602.5	7448.1	5	3	2012	13:37	163	14.57	35.19	13.94	35.57	3	V
48	650	3601.9	7450.1	5	3	2012	15:30	101	13.34	34.87	13.68	35.37	1	V
49	208	3601.0	7447.0	5	3	2012	18:21	322	14.98	35.30	8.81	35.16	1	W
50	587	3543.3	7449.1	6	3	2012	5:52	401	17.24	35.88	8.51	35.15	4	W
51	585	3545.2	7451.2	6	3	2012	10:01	119	16.97	35.83	14.18	35.14	1	V
52	643	3542.4	7502.1	6	3	2012	13:52	46	10.69	33.99	10.71	34.00	3	V
53	645	3535.8	7458.6	6	3	2012	15:52	48	10.85	33.71	10.76	33.79	3	B
54	586	3537.4	7447.7	6	3	2012	18:16	555	13.09	34.25	5.94	35.03	20	W
56	761	3517.5	7502.2	7	3	2012	3:25	67	22.13	36.29	18.39	35.36	6	V
57	425	3636.1	7542.9	12	3	2012	19:28	20	9.62	30.62	9.68	32.86	2	W
58	695	3616.0	7538.7	12	3	2012	21:58	22	11.74	26.93	10.01	33.33	3	V
59	693	3611.0	7527.7	12	3	2012	23:42	28	10.13	30.72	10.33	33.64	2	V
60	692	3557.0	7520.0	13	3	2012	1:55	32	11.07	32.38	12.41	33.56	4	V
61	694	3556.5	7521.6	13	3	2012	3:10	21	10.24	31.97	12.78	33.55	2	V
62	698	3544.6	7523.9	13	3	2012	5:04	27	10.84	32.49	13.66	33.74	3	W
63	697	3542.6	7525.8	13	3	2012	6:22	21	10.52	31.53	12.88	33.32	3	B
64	696	3534.2	7517.0	13	3	2012	8:16	24	13.14	33.09	16.76	35.01	6	B
65	647	3537.0	7511.5	13	3	2012	10:43	34	15.40	34.22	16.43	35.28	3	V
66	646	3612.0	7514.4	13	3	2012	15:04	29	10.19	31.59	10.89	33.81	4	B
67	644	3613.7	7509.9	13	3	2012	16:51	38	10.59	32.39	11.47	34.17	1	W
69	652	3723.0	7516.5	14	3	2012	0:25	30	9.90	31.67	9.94	33.27	7	B
70	689	3728.4	7524.2	14	3	2012	2:12	22	9.68	32.22	9.51	33.13	4	V
71	686	3738.7	7520.9	14	3	2012	6:19	17	9.62	32.22	9.25	32.62	1	W
72	687	3750.3	7507.4	14	3	2012	9:06	25	9.37	31.98	9.08	32.78	3	B
73	688	3756.5	7502.9	14	3	2012	10:46	25	9.14	32.02	9.01	32.60	2	V
74	684	3800.1	7458.8	14	3	2012	13:10	25	9.21	31.61	8.97	32.62	1	V
75	592	3805.8	7452.7	14	3	2012	15:45	32	9.63	31.87	8.96	32.91	6	B
76	683	3818.2	7456.3	14	3	2012	17:42	22	9.74	31.48	8.53	32.48	3	W

HB1201 Spring Bottom Trawl
29 Feb - 04 May 2012

Cast #	Site-ID #	Lat deg N	Long deg W	Day	Mo	Year	Time (GMT)	Btm Depth m	Surface Temp deg C	Surface Salinity PSU	Deepest Observed Temp deg C	Deepest Observed Salinity PSU	Meters from Bottom	Deployment Type
77	685	3823.6	7454.0	14	3	2012	18:52	24	9.60	31.48	8.41	32.55	4	V
78	739	4034.9	7106.4	20	3	2012	1:43	71	8.16	32.56	7.70	32.84	6	B
79	738	4019.9	7112.9	20	3	2012	4:16	88	8.47	32.59	12.50	34.61	4	B
80	744	4009.5	7110.9	20	3	2012	6:50	131	8.72	32.71	13.77	35.72	4	W
81	750	4002.5	7053.9	20	3	2012	9:21	210	11.49	33.90	11.41	35.44	2	V
82	748	4001.6	7108.0	20	3	2012	11:37	250	12.37	34.19	11.22	35.41	50	B
83	748	4001.7	7108.8	20	3	2012	12:03	243	12.47	34.22	10.19	35.29	1	V
84	747	4007.6	7115.9	20	3	2012	14:49	115	8.16	32.76	13.77	35.63	4	V
85	749	3958.7	7120.8	20	3	2012	17:02	208	12.18	34.25	10.81	35.36	1	W
86	745	3956.0	7131.5	20	3	2012	19:01	154	12.84	34.13	13.08	35.65	1	V
87	741	4016.3	7133.7	20	3	2012	21:47	85	10.00	32.46	13.23	35.15	5	B
88	742	4013.8	7145.4	20	3	2012	23:37	81	10.03	32.56	13.42	35.35	1	V
89	723	4006.7	7154.0	21	3	2012	1:22	78	9.21	32.62	11.15	34.26	1	V
90	718	3959.2	7203.5	21	3	2012	3:12	80	10.17	32.67	12.45	34.74	5	B
91	717	4000.2	7214.7	21	3	2012	4:58	80	10.44	32.65	11.71	34.45	6	B
92	725	3952.8	7156.6	21	3	2012	7:43	119	9.69	32.88	14.26	35.65	3	V
93	729	3947.8	7149.1	21	3	2012	9:40	241	12.99	34.30	9.96	35.26	4	V
94	726	3944.6	7205.9	21	3	2012	11:58	125	8.75	32.65	13.86	35.50	8	V
95	728	3933.9	7212.4	21	3	2012	13:55	142	10.21	32.84	13.47	35.66	3	V
96	730	3929.2	7208.5	21	3	2012	15:55	380	10.45	32.71	7.99	35.11	2	W
97	731	3931.5	7215.0	21	3	2012	18:40	158	9.34	32.89	12.75	35.56	2	V
98	727	3916.1	7230.9	21	3	2012	21:52	143	11.65	33.75	12.77	35.60	6	B
99	724	3925.5	7247.7	22	3	2012	0:40	70	10.80	33.30	9.88	33.84	4	B
100	599	3915.8	7334.7	22	3	2012	4:46	48	10.48	32.34	8.96	33.69	1	W
101	600	3905.9	7335.8	22	3	2012	6:34	46	10.99	32.63	8.33	33.32	5	B
102	598	3856.5	7359.8	22	3	2012	9:11	41	11.05	33.01	8.44	33.07	4	V
103	593	3847.0	7422.6	22	3	2012	11:41	38	10.45	32.83	8.87	33.27	7	B
104	594	3844.2	7435.0	22	3	2012	13:40	34	10.44	32.49	8.88	33.10	4	V
105	596	3834.7	7440.1	22	3	2012	15:25	26	11.62	32.49	9.23	32.87	2	W
106	681	3829.4	7452.3	22	3	2012	17:10	22	11.74	29.77	8.82	32.84	6	B
107	680	3835.3	7449.3	22	3	2012	18:49	28	10.97	31.73	9.03	32.84	1	V
108	682	3844.6	7447.6	22	3	2012	20:27	15	10.57	32.19	9.76	32.29	4	V
109	422	3900.4	7433.1	22	3	2012	23:13	20	11.34	31.92	9.19	31.99	3	V
110	420	3858.4	7434.0	23	3	2012	0:09	18	10.47	32.03	9.06	32.05	1	V
111	421	3903.3	7434.8	23	3	2012	1:27	19	10.51	31.73	8.74	31.80	2	V
112	419	3911.2	7422.9	23	3	2012	3:10	21	10.30	31.74	8.04	32.35	4	V
113	417	3928.5	7406.4	23	3	2012	5:48	20	10.42	31.44	8.01	32.29	7	B

HB1201 Spring Bottom Trawl
29 Feb - 04 May 2012

Cast #	Site-ID #	Lat deg N	Long deg W	Day	Mo	Year	Time (GMT)	Btm Depth m	Surface Temp deg C	Surface Salinity PSU	Deepest Observed Temp deg C	Deepest Observed Salinity PSU	Meters from Bottom	Deployment Type
114	416	3933.5	7405.1	23	3	2012	7:10	17	9.96	31.33	7.84	32.28	1	W
115	418	3936.5	7400.7	23	3	2012	8:19	23	10.18	31.27	7.44	32.17	7	B
116	415	3938.9	7354.8	23	3	2012	9:34	28	10.22	32.04	7.59	32.45	4	V
117	597	3938.6	7344.3	23	3	2012	11:28	25	9.60	31.94	8.36	32.95	7	B
118	601	3937.2	7335.9	23	3	2012	13:25	34	10.26	32.40	8.36	33.38	5	B
119	414	3956.5	7348.1	23	3	2012	16:08	27	11.32	31.72	7.86	32.99	2	W
120	413	3959.9	7356.8	23	3	2012	17:31	21	11.56	31.28	7.85	32.64	4	V
121	713	3956.3	7327.3	23	3	2012	20:17	42	10.67	32.83	8.62	33.37	3	B
122	711	4003.7	7326.0	23	3	2012	21:57	52	9.66	32.49	8.90	33.54	2	V
123	410	4011.5	7350.0	24	3	2012	0:22	28	11.30	30.17	8.13	33.03	1	V
124	411	4017.1	7342.5	24	3	2012	2:09	29	9.44	32.05	7.95	32.70	3	V
125	412	4021.5	7341.7	24	3	2012	3:37	27	9.69	32.06	7.99	32.63	1	W
126	715	4017.1	7330.2	24	3	2012	6:31	31	9.74	32.14	8.04	32.90	2	V
127	408	4024.3	7329.0	24	3	2012	8:19	27	9.04	31.95	7.76	32.69	3	V
128	407	4029.8	7322.1	24	3	2012	9:53	24	9.83	31.79	7.45	32.31	3	V
129	409	4033.6	7318.8	24	3	2012	11:28	22	9.91	31.68	7.44	32.21	3	V
130	405	4035.0	7309.8	24	3	2012	12:55	25	9.53	31.93	7.27	32.22	3	V
131	404	4036.2	7302.6	24	3	2012	14:21	23	9.34	31.90	7.28	32.32	5	B
132	406	4038.7	7254.5	24	3	2012	15:49	30	9.98	32.11	7.27	32.34	3	W
133	712	4018.5	7300.2	24	3	2012	18:36	45	9.67	32.25	7.84	33.05	7	B
134	722	3951.6	7259.9	24	3	2012	21:55	72	10.56	33.38	9.34	33.61	2	V
135	719	3958.9	7235.8	25	3	2012	0:34	61	10.51	33.26	9.14	33.50	5	B
136	720	4005.9	7229.1	25	3	2012	2:20	61	9.64	32.89	8.86	33.35	2	V
137	710	4006.7	7245.6	25	3	2012	4:52	54	10.61	33.46	9.04	33.52	8	B
138	714	4017.3	7243.8	25	3	2012	6:52	52	9.92	33.26	8.73	33.39	6	B
139	716	4024.1	7245.4	25	3	2012	8:48	45	9.19	32.95	8.12	33.14	2	W
140	721	4028.0	7218.6	25	3	2012	11:43	57	9.35	32.67	8.53	33.18	2	V
141	733	4037.5	7211.8	25	3	2012	13:51	50	8.98	32.57	8.61	33.22	5	B
142	401	4049.5	7222.1	25	3	2012	16:46	25	8.89	31.66	8.75	31.69	2	W
143	734	4050.7	7203.9	25	3	2012	18:58	39	9.09	31.96	8.14	32.78	1	V
144	403	4053.9	7205.5	25	3	2012	20:23	30	8.48	31.69	8.32	31.81	2	V
145	402	4056.7	7202.9	25	3	2012	21:52	26	8.34	31.55	8.36	31.55	3	V
146	610	4057.5	7159.6	25	3	2012	22:46	27	8.39	31.43	8.41	31.54	3	V
147	609	4057.6	7155.6	25	3	2012	23:47	29	8.37	31.37	8.58	31.88	1	V
148	735	4052.7	7155.6	26	3	2012	1:22	37	8.56	32.06	8.23	32.70	6	B
149	743	4052.0	7143.1	26	3	2012	3:22	60	8.97	32.42	8.70	33.20	5	W
150	737	4053.9	7143.1	26	3	2012	4:55	59	8.99	32.38	8.63	33.16	5	B

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Cast #	Site-ID #	Lat deg N	Long deg W	Day	Mo	Year	Time (GMT)	Btm Depth m	Surface Temp deg C	Surface Salinity PSU	Deepest Observed Temp deg C	Deepest Observed Salinity PSU	Meters from Bottom	Deployment Type
151	608	4105.7	7138.9	26	3	2012	8:00	33	8.68	32.27	8.48	32.37	1	V
152	699	4122.6	7116.6	26	3	2012	11:25	31	8.10	31.98	6.77	32.27	4	V
153	701	4124.3	7112.2	26	3	2012	13:01	26	7.68	32.08	7.05	32.20	7	B
154	700	4122.6	7107.8	26	3	2012	15:01	27	7.39	32.26	7.27	32.25	3	V
155	736	4115.4	7104.9	26	3	2012	17:17	44	7.85	32.42	7.08	32.64	2	W
156	732	4050.5	7049.9	26	3	2012	20:55	56	7.73	32.46	7.34	32.76	5	B
157	754	4105.2	7037.6	27	3	2012	2:50	44	6.59	32.22	6.41	32.41	2	V
158	705	4116.4	7036.0	27	3	2012	4:58	27	7.19	32.30	7.20	32.30	4	W
159	704	4115.2	7028.8	27	3	2012	6:49	29	7.51	32.34	7.53	32.34	5	V
160	754	4103.8	7036.6	27	3	2012	12:37	44	6.39	32.35	7.13	32.66	2	V
161	331	4106.8	7007.4	27	3	2012	15:49	23	7.53	32.28	7.50	32.29	2	W
162	702	4100.7	7009.8	27	3	2012	17:25	25	7.12	32.51	7.09	32.51	2	V
163	381	4047.3	7015.0	27	3	2012	20:02	44	7.01	32.66	6.95	32.66	6	B
164	703	4047.7	7004.1	27	3	2012	22:04	30	7.10	32.58	7.10	32.57	2	V
165	752	4041.1	6946.2	28	3	2012	0:45	52	7.13	32.84	7.15	32.84	5	B
166	755	4038.7	6953.4	28	3	2012	2:37	56	7.14	32.84	7.16	32.84	6	B
167	435	4033.7	6951.4	28	3	2012	4:40	65	7.23	32.81	7.24	32.82	1	W
168	439	4022.1	6960.0	28	3	2012	7:18	82	7.36	32.80	7.42	32.94	4	B
169	438	4019.1	7008.7	28	3	2012	8:49	88	7.44	32.73	7.27	32.80	3	V
170	445	3957.1	6955.9	28	3	2012	12:23	210	9.52	33.58	12.42	35.53	12	B
171	441	4006.1	7007.9	28	3	2012	15:30	154	7.37	32.77	12.84	35.15	1	W
172	443	4007.6	7025.8	28	3	2012	18:10	120	7.56	32.74	12.70	34.91	1	V
173	746	4008.5	7035.5	28	3	2012	20:16	122	8.48	33.04	14.25	35.51	3	V
174	740	4023.3	7035.5	28	3	2012	23:21	87	7.71	32.75	7.57	33.03	5	B
175	444	3954.7	6943.7	3	4	2012	3:55	292	11.72	34.46	9.66	35.24	2	W
176	446	3955.8	6932.4	3	4	2012	7:13	267	12.54	34.81	10.59	35.33	7	V
177	437	4007.1	6938.5	3	4	2012	9:37	100	6.85	32.79	10.57	34.17	5	B
178	432	4011.7	6918.6	3	4	2012	13:51	94	6.90	32.92	7.79	33.24	6	B
179	440	4005.1	6910.9	3	4	2012	16:13	129	7.45	33.09	12.81	35.14	11	W
180	442	4009.1	6858.4	3	4	2012	19:07	146	6.84	32.87	12.73	35.24	6	V
181	433	4022.6	6905.9	3	4	2012	21:36	88	6.85	32.64	6.74	32.69	7	B
182	462	4008.3	6833.4	4	4	2012	1:49	230	8.93	33.65	11.82	35.44	13	V
183	457	4019.2	6820.6	4	4	2012	4:37	140	8.02	33.37	13.83	35.49	4	B
184	459	4021.8	6814.2	4	4	2012	6:55	142	6.83	32.79	12.74	35.06	2	W
185	456	4024.7	6813.6	4	4	2012	8:45	135	6.60	32.69	10.85	34.83	3	V
186	447	4030.9	6806.2	4	4	2012	10:28	117	6.35	32.61	9.44	33.92	2	V
187	455	4034.5	6811.1	4	4	2012	12:16	96	6.64	32.78	7.24	33.03	1	V

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188	479	4047.0	6817.7	4	4	2012	14:30	59	6.98	32.74	6.78	32.74	4	B
189	483	4057.2	6826.0	4	4	2012	17:13	50	7.43	32.61	7.20	32.61	5	B
190	504	4108.0	6842.9	4	4	2012	20:31	65	7.52	32.77	7.26	32.77	2	W
191	506	4103.2	6854.8	5	4	2012	1:55	72	7.27	32.80	7.28	32.82	4	V
192	434	4044.6	6900.3	5	4	2012	5:07	72	7.50	32.58	7.21	32.82	2	W
193	751	4045.4	6925.6	5	4	2012	8:22	45	6.90	32.83	6.91	32.84	1	V
194	516	4106.7	6922.7	5	4	2012	11:31	43	6.53	32.80	6.56	32.80	1	V
195	126	4104.1	6917.7	5	4	2012	14:53	56	6.68	32.74	6.63	32.78	1	V
196	112	4100.7	6906.9	5	4	2012	17:36	72	6.96	32.93	6.90	32.94	6	W
197	109	4110.3	6910.4	5	4	2012	21:55	94	6.48	32.88	6.48	32.89	3	V
198	502	4117.8	6911.3	5	4	2012	23:52	101	6.65	32.86	6.40	32.97	5	V
199	505	4117.6	6919.4	6	4	2012	1:55	77	6.47	32.82	6.49	32.84	5	V
200	518	4124.8	6923.7	6	4	2012	4:04	48	6.44	32.63	6.47	32.80	1	W
201	518	4122.0	6923.4	6	4	2012	7:00	41	6.47	32.79	6.48	32.78	1	V
202	519	4122.1	6926.6	6	4	2012	9:13	34	6.46	32.74	6.47	32.74	2	V
203	517	4131.4	6940.4	6	4	2012	11:55	31	6.35	32.58	6.35	32.59	3	V
204	612	4147.2	6953.7	6	4	2012	15:25	26	6.64	32.28	6.45	32.29	2	W
205	613	4150.7	6955.0	6	4	2012	17:58	24	6.58	32.24	6.58	32.24	5	B
206	611	4201.1	7000.3	7	4	2012	0:49	28	6.57	32.20	6.55	32.25	5	V
207	427	4202.7	6958.5	7	4	2012	2:54	51	6.40	32.33	6.27	32.50	4	V
208	546	4151.1	6923.3	7	4	2012	7:35	192	6.39	32.98	8.05	34.01	3	W
209	515	4138.2	6908.6	7	4	2012	11:40	169	6.89	32.93	7.33	33.51	3	V
210	509	4139.0	6857.0	7	4	2012	16:28	145	6.77	32.88	6.70	33.15	4	W
211	510	4134.7	6852.4	7	4	2012	18:53	152	6.78	32.88	6.70	33.13	6	B
212	491	4131.1	6823.3	7	4	2012	22:55	49	7.42	32.74	7.41	32.75	3	V
213	507	4118.9	6829.8	8	4	2012	2:49	65	7.36	32.73	7.38	32.77	5	V
214	503	4112.1	6834.3	8	4	2012	5:16	65	7.41	32.69	7.43	32.69	1	W
215	492	4129.6	6809.5	8	4	2012	8:49	45	7.34	32.82	7.36	32.83	2	V
216	492	4130.3	6809.4	8	4	2012	15:07	33	7.36	32.78	7.34	32.81	2	V
217	93	4143.2	6817.8	8	4	2012	17:04	60	7.28	32.83	7.24	32.83	4	W
218	497	4145.2	6812.8	8	4	2012	18:55	63	7.32	32.83	7.23	32.83	6	V
219	496	4148.9	6803.4	8	4	2012	21:31	60	7.22	32.88	7.00	33.00	4	V
220	488	4158.1	6741.3	9	4	2012	1:28	46	7.11	32.93	7.11	32.93	6	B
221	551	4217.2	6818.9	9	4	2012	8:40	205	6.79	33.00	8.08	34.13	1	W
222	553	4230.6	6816.4	9	4	2012	13:18	190	6.49	32.98	8.25	34.27	5	B
223	548	4232.5	6819.6	9	4	2012	15:49	201	6.74	33.00	8.33	34.33	6	B
224	556	4240.8	6814.6	9	4	2012	20:15	187	6.50	32.78	8.27	34.28	6	W

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225	552	4231.9	6754.1	9	4	2012	23:22	222	6.69	33.01	8.46	34.76	7	V
226	574	4253.3	6735.4	10	4	2012	3:19	219	5.85	32.16	8.46	34.58	1	W
227	574	4253.3	6735.5	10	4	2012	3:39	217	5.97	32.16	8.46	34.58	15	B
228	554	4244.9	6722.5	10	4	2012	7:22	209	6.33	32.57	8.41	34.87	2	V
229	549	4241.5	6721.8	10	4	2012	12:13	187	6.41	32.56	8.35	34.94	2	B
230	559	4236.3	6702.5	10	4	2012	16:13	298	6.62	32.47	8.20	35.00	4	W
231	557	4235.2	6702.6	10	4	2012	18:31	303	6.46	32.37	8.20	34.99	9	V
232	557	4233.4	6708.2	10	4	2012	20:27	314	6.72	32.43	8.30	34.99	115	B
233	558	4223.4	6730.8	10	4	2012	22:49	302	6.80	32.59	8.12	35.01	5	V
234	490	4200.5	6712.3	11	4	2012	3:45	57	7.21	32.99	7.22	32.99	3	B
235	484	4156.7	6704.6	11	4	2012	7:05	65	7.17	32.98	7.14	32.98	5	B
236	489	4142.6	6743.4	11	4	2012	11:31	35	7.37	32.84	7.36	32.85	2	B
237	480	4134.4	6731.1	11	4	2012	15:53	51	7.46	32.87	7.46	32.88	6	B
238	486	4124.1	6750.5	11	4	2012	22:38	40	7.55	32.81	7.56	32.81	6	W
239	485	4123.3	6726.7	12	4	2012	0:46	43	7.50	32.86	7.50	32.86	4	V
240	86	4119.7	6734.3	12	4	2012	3:50	44	7.47	32.84	7.48	32.84	2	W
241	487	4115.6	6725.7	12	4	2012	6:09	47	7.30	32.89	7.30	32.89	5	B
242	450	4111.0	6719.8	12	4	2012	8:19	55	7.02	32.91	7.02	32.91	6	B
243	454	4059.8	6711.8	12	4	2012	10:22	75	6.69	32.77	6.79	32.84	3	B
244	452	4059.1	6744.9	12	4	2012	13:10	58	7.21	32.85	7.20	32.86	6	B
245	449	4051.7	6748.2	12	4	2012	14:41	65	7.09	32.86	7.04	32.86	6	B
246	448	4052.7	6808.5	12	4	2012	17:01	58	7.37	32.73	7.21	32.78	7	B
247	451	4050.0	6808.6	12	4	2012	18:27	63	7.07	32.82	7.07	32.83	5	W
248	453	4040.9	6758.3	12	4	2012	20:30	83	7.12	32.78	6.82	32.85	7	B
249	458	4031.7	6728.5	13	4	2012	1:16	125	6.14	32.12	11.10	34.73	7	V
250	63	4036.8	6704.1	13	4	2012	4:13	195	9.28	33.64	13.23	35.58	3	W
251	62	4040.9	6653.7	13	4	2012	6:37	195	9.12	33.58	11.80	35.44	1	V
252	477	4050.0	6639.5	13	4	2012	9:43	222	8.85	33.43	10.88	35.35	1	V
253	464	4102.7	6635.6	13	4	2012	12:41	87	6.72	32.49	6.90	33.06	5	B
254	478	4056.2	6631.8	13	4	2012	15:13	200	6.66	32.09	11.87	35.39	5	V
255	766	4100.3	6629.2	13	4	2012	17:34	130	6.52	32.20	10.71	34.51	11	V
256	765	4103.1	6627.1	13	4	2012	19:47	139	6.58	32.17	9.49	34.34	5	V
257	472	4114.4	6659.6	13	4	2012	23:04	67	7.28	32.56	6.54	32.74	4	B
258	473	4119.6	6656.6	14	4	2012	0:45	68	6.91	32.67	6.56	32.73	6	B
259	463	4115.4	6643.1	14	4	2012	3:00	77	6.92	32.19	6.48	32.77	6	B
260	476	4111.5	6616.9	14	4	2012	6:18	308	6.80	32.43	7.67	35.08	30	V
261	764	4123.0	6607.2	14	4	2012	8:55	142	7.88	33.00	9.54	35.04	2	W

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262	469	4147.1	6557.8	14	4	2012	12:01	103	6.66	32.41	6.86	33.03	2	V
263	763	4149.4	6554.1	14	4	2012	13:19	122	6.52	32.08	6.92	33.11	3	V
264	475	4157.2	6548.3	14	4	2012	15:11	188	5.72	31.65	9.49	35.20	6	V
265	470	4201.0	6630.9	14	4	2012	19:27	79	7.81	32.84	7.03	33.03	7	B
266	471	4150.0	6629.4	14	4	2012	21:34	78	7.09	32.83	6.81	32.86	4	W
267	467	4146.8	6644.1	15	4	2012	0:16	66	7.10	32.97	7.11	32.98	7	B
268	474	4138.2	6643.9	15	4	2012	2:42	75	7.07	32.94	7.04	32.93	6	V
269	468	4139.1	6658.2	15	4	2012	5:35	63	7.22	32.96	7.23	32.96	5	B
270	482	4147.4	6705.5	15	4	2012	8:13	60	7.37	99.99	7.39	99.99	6	B
271	466	4149.6	6656.8	15	4	2012	10:15	64	7.18	32.98	7.18	32.98	2	V
272	465	4157.5	6648.6	15	4	2012	12:31	66	7.23	33.02	7.18	33.03	6	B
273	494	4206.0	6656.2	15	4	2012	15:41	68	7.78	32.95	7.22	33.01	5	V
274	100	4212.3	6656.2	15	4	2012	17:21	204	8.17	32.67	8.33	34.80	6	V
275	495	4207.6	6648.1	15	4	2012	19:19	72	7.88	32.95	6.92	33.14	4	V
276	101	4209.5	6641.6	15	4	2012	20:45	126	7.98	32.52	6.91	33.27	6	V
277	499	4210.7	6636.7	15	4	2012	22:36	202	7.45	32.33	8.68	34.63	6	V
278	498	4210.5	6632.2	15	4	2012	23:53	199	7.35	32.46	8.75	34.69	5	V
279	555	4223.8	6603.6	16	4	2012	4:46	256	5.32	31.14	9.18	35.14	1	V
280	550	4235.9	6647.4	16	4	2012	8:40	217	7.45	32.26	8.71	34.75	1	V
281	562	4303.8	6644.8	16	4	2012	14:19	173	7.07	32.71	8.43	34.28	2	V
282	560	4328.3	6649.2	16	4	2012	18:34	187	6.01	31.70	8.19	34.07	7	B
283	566	4333.5	6647.5	16	4	2012	22:13	139	6.01	31.69	7.66	33.69	4	V
284	564	4338.5	6700.8	17	4	2012	0:38	184	5.91	31.72	8.20	34.10	7	V
285	565	4341.0	6655.5	17	4	2012	3:19	155	6.00	31.70	7.37	33.46	6	B
286	563	4342.9	6708.6	17	4	2012	6:18	154	5.67	31.70	8.15	34.03	3	V
287	577	4347.5	6723.3	17	4	2012	9:01	205	6.29	31.74	8.38	34.22	1	V
288	572	4342.2	6732.8	17	4	2012	11:43	233	6.07	31.78	8.36	34.27	2	V
289	572	4342.5	6732.4	17	4	2012	12:01	232	6.14	31.82	8.37	34.23	30	B
290	571	4335.0	6741.0	17	4	2012	14:30	248	6.63	31.84	8.53	34.36	3	V
291	571	4334.3	6740.8	17	4	2012	15:01	243	6.75	31.84	8.43	34.27	43	B
292	573	4323.1	6731.9	17	4	2012	18:31	216	7.63	32.13	8.13	34.16	4	V
293	570	4319.2	6727.4	17	4	2012	21:31	193	7.45	32.16	8.27	34.31	5	V
294	576	4307.5	6759.1	18	4	2012	1:13	179	7.85	31.93	7.86	33.93	3	V
295	627	4254.4	6841.7	18	4	2012	6:34	190	7.26	32.37	8.19	34.18	4	B
296	626	4247.9	6841.8	18	4	2012	9:26	201	7.19	32.17	8.22	34.23	1	V
297	544	4240.0	6839.0	18	4	2012	12:22	191	7.16	32.05	8.28	34.31	8	B
298	541	4227.3	6852.1	18	4	2012	19:23	218	7.47	32.08	8.25	34.34	6	V

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Cast #	Site-ID #	Lat deg N	Long deg W	Day	Mo	Year	Time (GMT)	Btm Depth m	Surface Temp deg C	Surface Salinity PSU	Deepest Observed Temp deg C	Deepest Observed Salinity PSU	Meters from Bottom	Deployment Type
299	513	4212.2	6843.4	18	4	2012	22:19	205	8.32	33.01	7.86	33.86	7	V
300	508	4209.9	6842.1	19	4	2012	0:43	197	8.35	33.01	7.87	33.87	6	B
301	512	4157.2	6841.4	19	4	2012	4:33	160	8.29	32.96	7.24	33.55	2	V
302	514	4203.2	6855.4	19	4	2012	7:10	124	8.10	32.95	6.93	33.30	2	V
303	511	4206.4	6909.7	19	4	2012	10:19	186	8.18	33.00	8.12	34.06	7	B
304	547	4214.7	6924.6	19	4	2012	13:49	209	8.58	33.00	8.24	34.22	3	V
305	543	4211.9	6936.7	19	4	2012	16:13	237	8.59	32.98	8.31	34.36	4	V
306	615	4152.8	7027.0	25	4	2012	0:16	29	8.98	32.10	6.88	32.28	2	W
307	618	4153.1	7019.6	25	4	2012	2:00	32	8.98	32.13	6.86	32.32	2	V
308	614	4151.4	7016.3	25	4	2012	4:18	29	9.34	32.07	6.86	32.33	5	W
309	619	4157.3	7013.4	25	4	2012	5:50	36	10.23	31.92	6.48	32.48	4	V
310	617	4158.1	7026.5	25	4	2012	7:49	44	8.88	32.10	6.20	32.41	5	V
311	526	4207.8	7019.8	25	4	2012	10:07	58	8.39	32.05	5.95	32.69	4	V
312	428	4205.4	7016.0	25	4	2012	11:40	60	8.87	32.07	5.99	32.66	5	V
313	426	4209.1	7009.7	25	4	2012	14:40	48	8.49	32.07	6.83	32.48	5	V
314	535	4213.3	6951.8	25	4	2012	17:19	192	8.41	32.16	7.14	33.56	2	W
315	540	4221.3	6959.6	25	4	2012	20:13	165	8.45	32.19	6.97	33.52	1	V
316	530	4213.8	7016.2	25	4	2012	22:57	27	8.46	32.09	7.46	32.29	1	V
317	523	4216.1	7014.2	26	4	2012	1:27	34	8.63	32.06	7.22	32.35	2	V
318	525	4224.5	7022.2	26	4	2012	3:46	40	8.33	32.14	6.17	32.75	4	W
319	520	4216.2	7030.6	26	4	2012	8:28	73	8.39	32.00	5.98	32.66	6	V
320	616	4208.5	7032.8	26	4	2012	11:55	28	9.09	31.99	6.64	32.37	5	V
321	621	4225.2	7046.0	26	4	2012	15:52	43	8.58	31.64	6.03	32.45	2	W
322	244	4224.4	7047.3	26	4	2012	18:10	36	8.49	31.68	6.26	32.37	2	V
323	758	4224.3	7044.3	26	4	2012	20:01	49	8.97	31.68	5.73	32.52	1	V
324	521	4230.1	7029.8	26	4	2012	23:02	73	8.43	31.65	5.70	32.78	1	V
325	430	4235.8	7034.5	27	4	2012	1:15	50	8.45	31.46	5.60	32.53	1	V
326	756	4239.2	7030.5	27	4	2012	3:17	82	8.48	31.12	5.67	32.73	6	W
327	529	4240.2	7018.9	27	4	2012	7:04	81	8.24	31.90	5.60	32.77	5	V
328	527	4240.8	7014.1	27	4	2012	10:00	88	8.11	32.11	5.63	32.84	5	V
329	528	4247.0	7019.7	27	4	2012	12:34	52	8.39	31.71	5.72	32.82	7	V
330	757	4242.7	7031.4	27	4	2012	15:10	82	8.13	31.63	5.47	32.70	10	B
331	431	4245.6	7040.6	27	4	2012	17:27	42	8.56	30.93	5.68	32.38	3	W
332	622	4244.9	7044.4	27	4	2012	19:17	28	8.45	29.81	6.55	32.12	2	V
333	429	4250.1	7041.7	27	4	2012	21:36	49	8.02	31.62	5.46	32.48	4	V
334	579	4256.0	7025.7	28	4	2012	0:31	63	7.88	32.07	5.36	32.65	1	V
335	536	4250.1	7006.1	28	4	2012	3:47	134	7.69	32.28	5.55	32.77	6	W

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Cast #	Site-ID #	Lat deg N	Long deg W	Day	Mo	Year	Time (GMT)	Btm Depth m	Surface Temp deg C	Surface Salinity PSU	Deepest Observed Temp deg C	Deepest Observed Salinity PSU	Meters from Bottom	Deployment Type
336	534	4257.8	6958.5	28	4	2012	6:56	184	7.57	32.45	8.24	34.22	5	V
337	522	4307.6	7004.2	28	4	2012	9:37	52	7.24	32.50	5.67	32.73	8	V
338	524	4305.2	7003.3	28	4	2012	11:38	55	7.16	32.49	5.85	32.73	7	B
339	532	4307.7	7006.5	28	4	2012	16:15	148	7.36	32.45	5.97	32.92	2	W
340	578	4307.5	7020.5	28	4	2012	19:13	112	7.78	31.63	5.41	32.65	6	B
341	582	4313.7	7010.3	28	4	2012	22:12	119	7.38	32.30	6.13	33.02	1	V
342	531	4317.2	7005.8	29	4	2012	0:28	154	7.83	31.38	6.55	33.13	1	V
343	539	4313.8	7000.4	29	4	2012	2:27	128	7.42	32.23	6.24	33.03	1	V
344	537	4314.0	7000.2	29	4	2012	4:16	130	7.49	32.24	6.24	33.03	5	W
345	581	4325.7	7008.1	29	4	2012	6:54	73	7.47	30.87	5.72	32.42	6	V
346	259	4322.8	6949.6	29	4	2012	11:33	149	7.44	31.04	5.93	32.93	8	B
347	637	4323.5	6922.6	29	4	2012	19:58	186	7.87	32.39	6.36	33.17	1	W
348	580	4340.9	6931.9	29	4	2012	23:28	100	6.86	32.05	5.54	32.51	4	V
349	195	4343.5	6928.2	30	4	2012	2:49	103	6.81	31.89	5.58	32.52	12	V
350	269	4342.8	6901.5	30	4	2012	6:56	92	6.49	32.20	5.50	32.37	6	W
351	265	4354.2	6831.4	30	4	2012	16:45	100	6.52	32.07	5.52	32.44	1	W
352	264	4354.3	6830.2	30	4	2012	17:34	101	6.45	32.09	5.78	32.55	1	V
353	642	4355.8	6828.5	30	4	2012	19:22	95	6.47	32.08	5.68	32.41	1	V
354	641	4356.8	6822.1	30	4	2012	21:36	105	6.44	32.08	6.01	32.69	2	V
355	256	4354.8	6808.5	1	5	2012	1:15	171	6.34	32.20	7.96	33.94	2	V
356	634	4354.4	6804.9	1	5	2012	2:17	189	6.45	32.18	8.30	34.16	9	B
357	640	4407.3	6804.2	1	5	2012	4:46	76	6.24	32.09	5.89	32.37	5	W
358	630	4417.4	6724.9	1	5	2012	11:45	223	6.16	32.06	8.35	34.21	7	V
359	568	4415.7	6712.4	1	5	2012	15:01	190	5.99	32.07	8.23	34.09	6	V
360	569	4417.4	6647.4	1	5	2012	17:55	181	6.37	31.72	7.39	33.50	1	W
361	567	4408.9	6643.5	1	5	2012	21:36	81	6.62	32.07	6.54	32.78	8	B
362	186	4411.9	6709.3	2	5	2012	2:35	131	6.35	32.15	7.68	33.72	1	V
363	561	4407.5	6717.5	2	5	2012	3:31	139	6.38	32.19	7.64	33.71	5	W
364	575	4401.6	6734.3	2	5	2012	6:37	219	6.64	32.12	8.35	34.23	4	V
365	575	4404.8	6731.8	2	5	2012	8:25	220	6.62	32.13	8.33	34.20	22	B
366	255	4401.7	6739.2	2	5	2012	12:10	205	6.56	32.13	8.44	34.35	6	V
367	632	4338.4	6816.6	2	5	2012	15:37	198	7.26	32.24	8.49	34.33	1	W
368	633	4322.8	6833.2	2	5	2012	21:43	169	7.11	32.03	7.85	33.88	1	V
369	628	4313.1	6905.7	3	5	2012	2:12	174	7.34	32.17	6.90	33.42	1	V
370	625	4310.3	6932.8	3	5	2012	5:43	64	7.53	30.83	6.11	31.48	5	W
371	624	4300.6	6936.9	3	5	2012	11:40	155	7.57	32.47	6.58	33.27	7	V
372	629	4252.3	6925.9	3	5	2012	15:31	157	7.96	32.19	7.15	33.49	2	W

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Cast #	Site-ID #	Lat deg N	Long deg W	Day	Mo	Year	Time (GMT)	Btm Depth m	Surface Temp deg C	Surface Salinity PSU	Deepest Observed Temp deg C	Deepest Observed Salinity PSU	Meters from Bottom	Deployment Type
373	542	4239.5	6923.5	3	5	2012	17:43	230	7.98	32.18	8.22	34.19	3	V
374	545	4239.9	6955.4	3	5	2012	21:31	194	8.29	32.76	8.15	34.14	7	B
375	538	4229.9	6955.5	3	5	2012	23:49	178	8.44	32.27	7.39	33.77	7	B
376	533	4234.2	7001.5	4	5	2012	1:57	152	8.39	32.29	6.56	33.34	1	V