

Oceanography Branch CTD Data Report
CTD_REPORT_2012006HB

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DATE: Revised: February 10, 2016

Oceanography Branch CTD Data Report

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

HB 12-06
Fall Bottom Trawl Survey
Data Coverage: September 7 – November 10, 2012
Mid Atlantic Bight, Georges Bank, Gulf of Maine

This report presents a summary of surface and bottom temperature and salinity data collected during the Northeast Fisheries Science Center's HB1206 Fall Bottom Trawl Survey aboard the NOAA FSV *Henry B. Bigelow*. Data was obtained with two Seabird Electronics SBE Model 19+ profiling CTDs (s/n 4759 and s/n 4887). Sea water samples were taken for the purpose of correcting salinity values for both instruments. No salinity correction was necessary for any instrument. Instrument #4759 was outfitted with a SBE43 dissolved oxygen sensor. The oxygen data (mg/L) is included in the NODC file and in the OCDBS database, however, it is not included in this report.

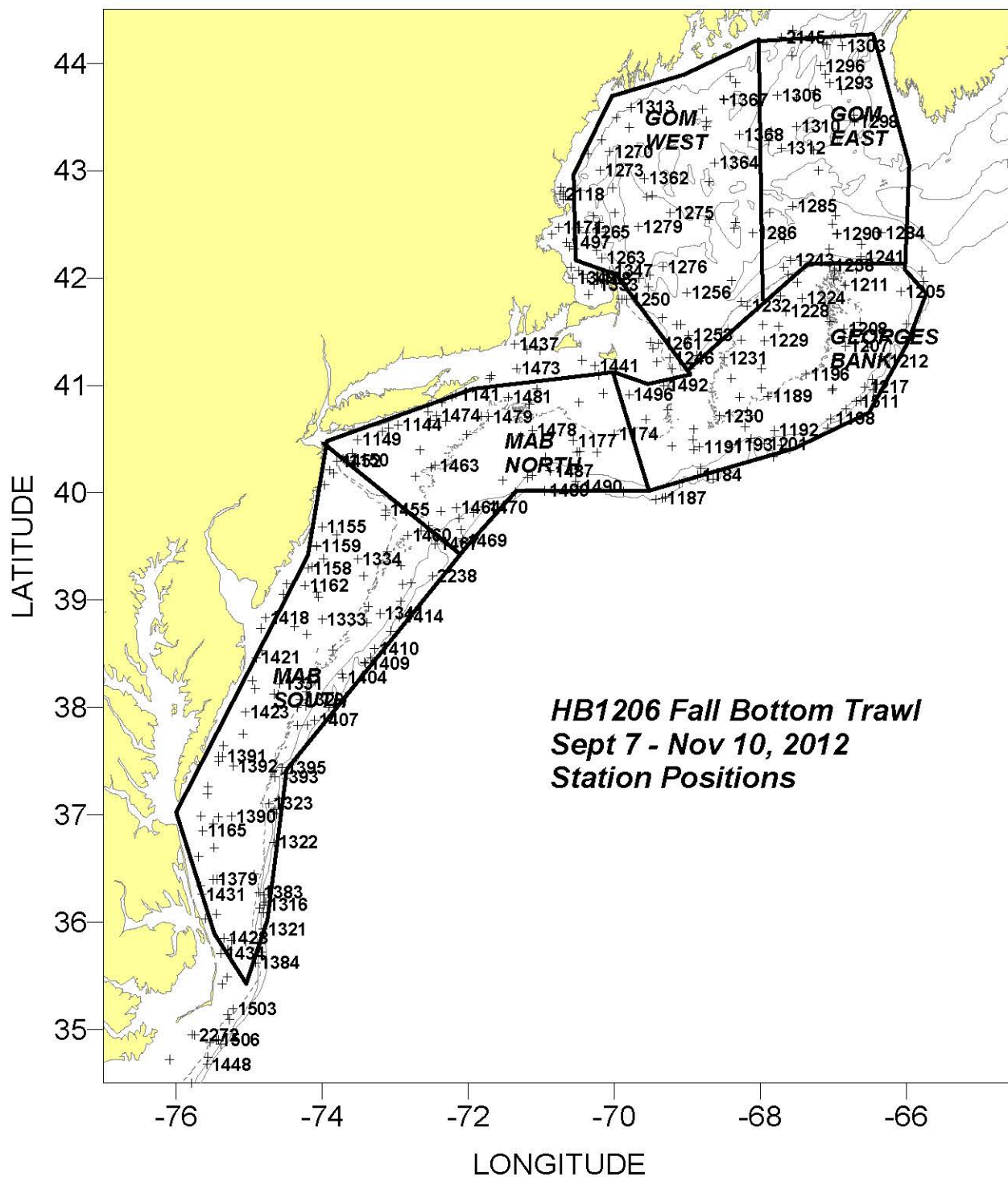
Data presented here have been audited, however, corrections and/or updates may be applied at a later time. The most recent and complete station data can be found in an NODC formatted ASCII file at:
ftp://ftp.nefsc.noaa.gov/pub/hydro/nodc_files/hb1206.dat

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

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

choose: **2012 Cruises**
 SEP_TRAWL_HB1206
 CTD_REPORT_2012006HB.pdf

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**Areal average surface and bottom temperature/salinity and temperature/salinity anomalies for the
HB1206 Fall Bottom Trawl Survey
Sept. 7 - Nov. 10, 2012**

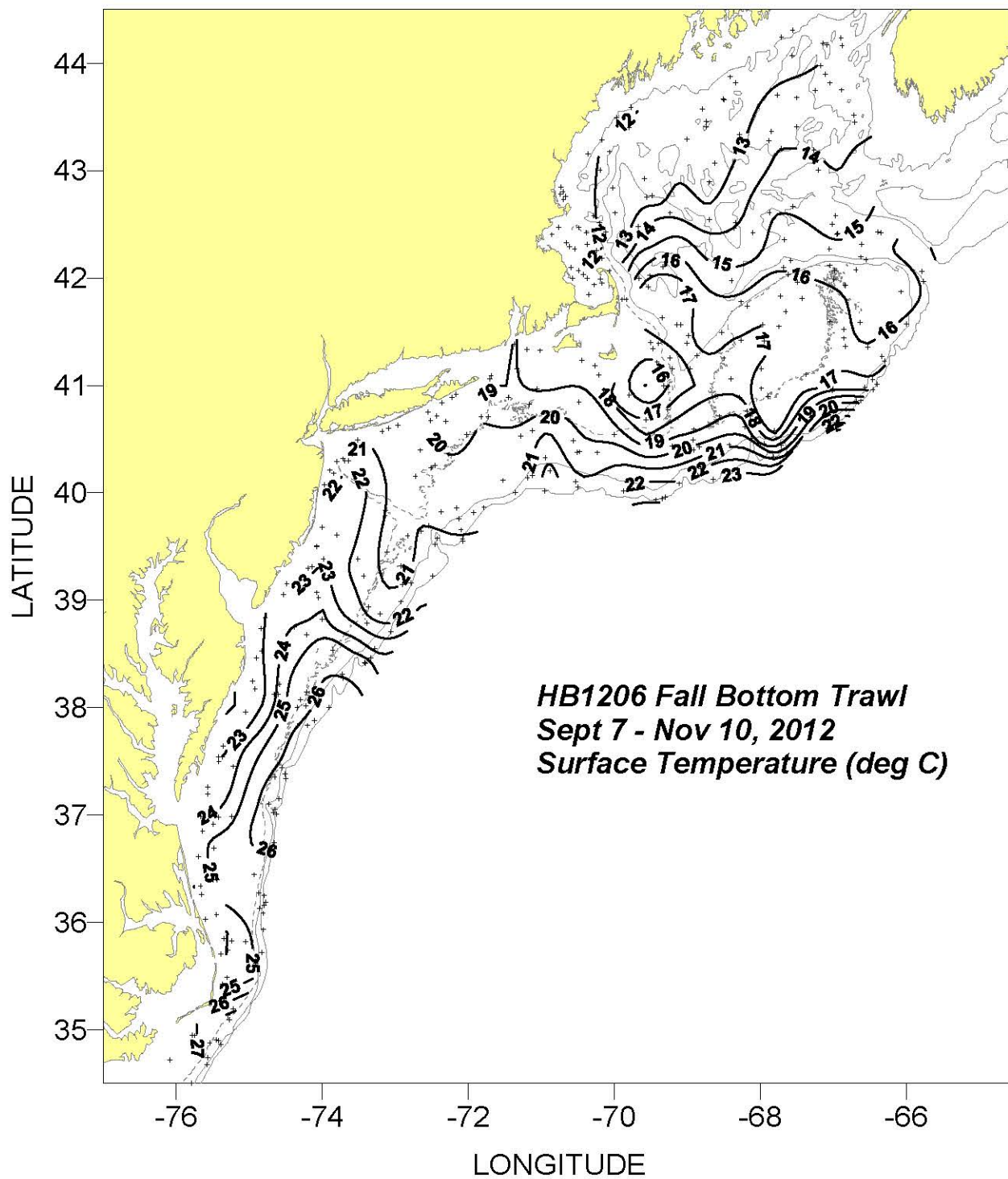
		SURFACE						BOTTOM						
CRUISE	CD	#obs	T/S	Anomaly	SDV1	SDV2	Flag	#obs	T/S	Anomaly	SDV1	SDV2	Flag	Purpose
Western Gulf of Maine														
hb1206	299	51	13.78	2.15	0.15	0.73	0	51	9.22	1.87	0.13	1.00	0	10
hb1206	299	51	32.81	0.23	0.10	0.33	0	51	33.92	0.30	0.08	0.29	0	10
Eastern Gulf of Maine														
hb1206	295	30	14.16	1.93	0.18	0.54	0	30	9.71	1.42	0.19	0.92	0	10
hb1206	295	30	33.15	0.46	0.12	0.30	0	30	34.73	0.29	0.10	0.24	0	10
Georges Bank														
hb1206	287	58	17.71	2.89	0.14	1.65	0	40	14.66	2.29	0.18	1.29	0	10
hb1206	287	58	33.21	0.45	0.08	0.74	0	40	33.49	0.37	0.11	0.50	0	10
MAB North														
hb1206	273	55	20.14	2.35	0.18	1.36	0	43	13.60	1.05	0.23	2.50	0	10
hb1206	273	55	33.01	0.37	0.12	0.74	0	43	33.59	0.14	0.13	0.57	0	10
MAB South														
hb1206	261	93	23.63	1.83	0.14	1.37	0	77	14.63	0.34	0.17	2.67	0	10
hb1206	261	93	32.48	0.20	0.10	0.81	0	77	33.42	0.23	0.10	0.74	0	10

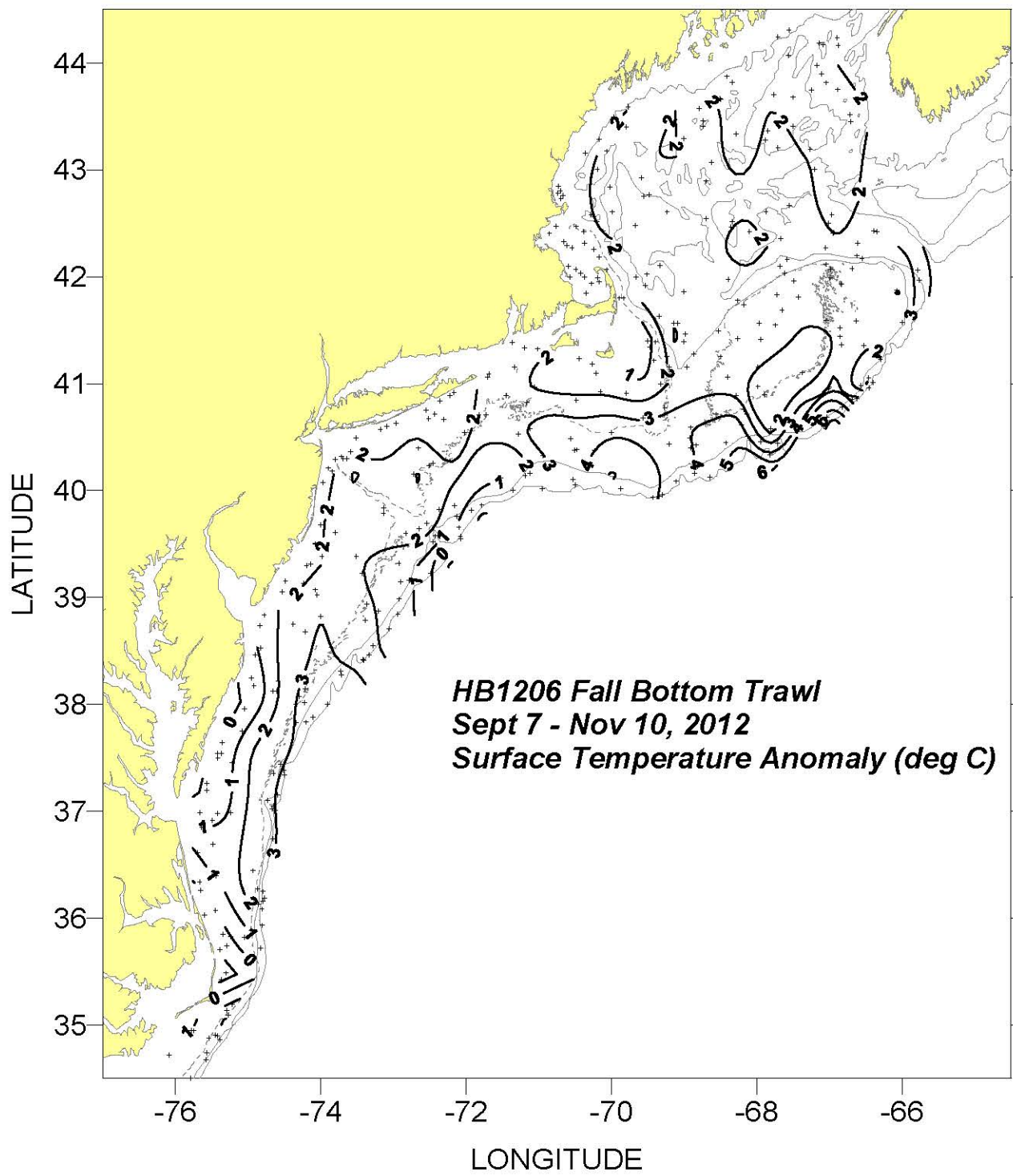
"CRUISE", the code name for a cruise: "CD", the calendar mid-date of all the stations within a region for a cruise:

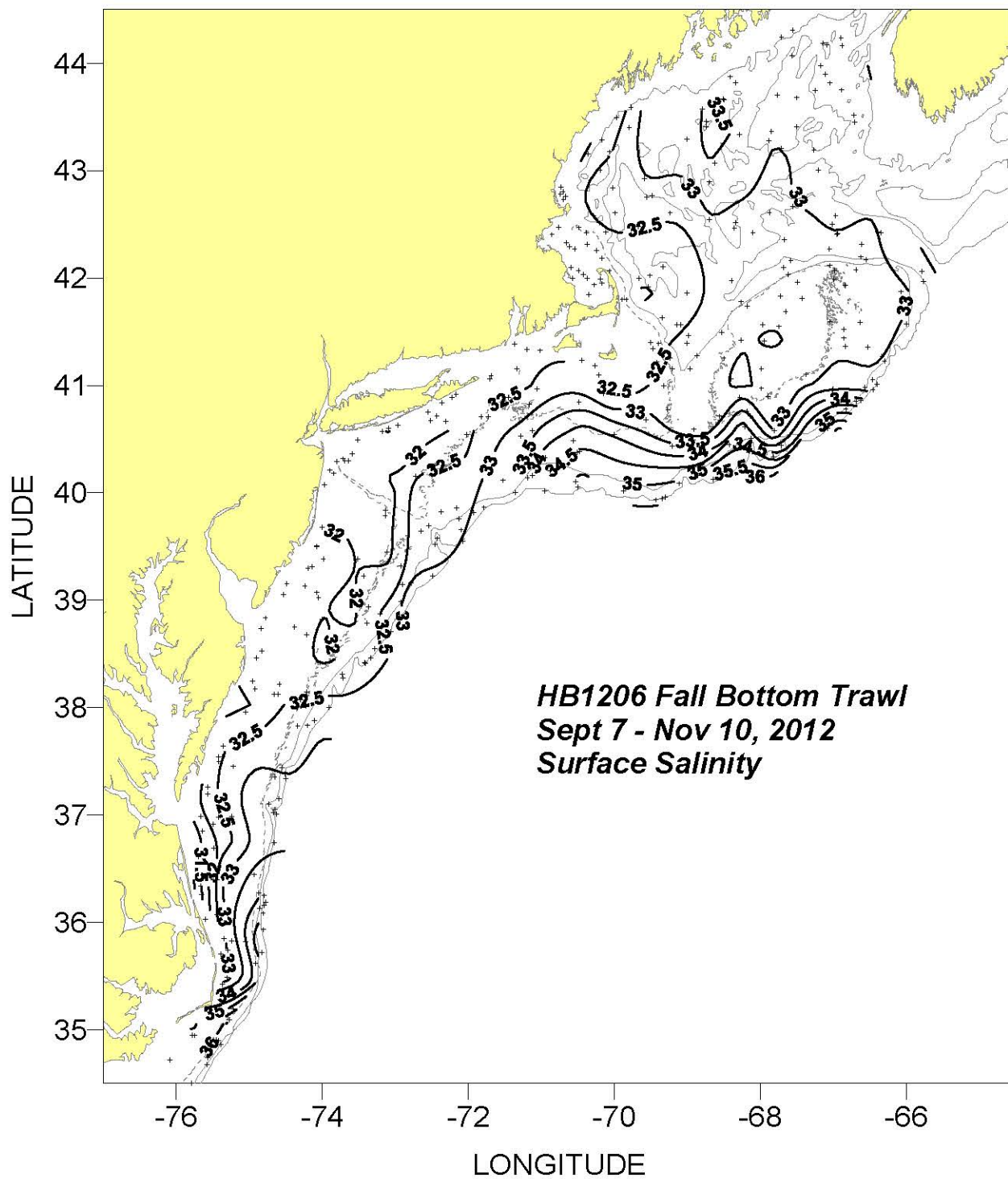
"#obs", the number of observations include in each average: "T/S", the areal average temp/salt: "Anomaly", the areal average temp/salt anomaly:

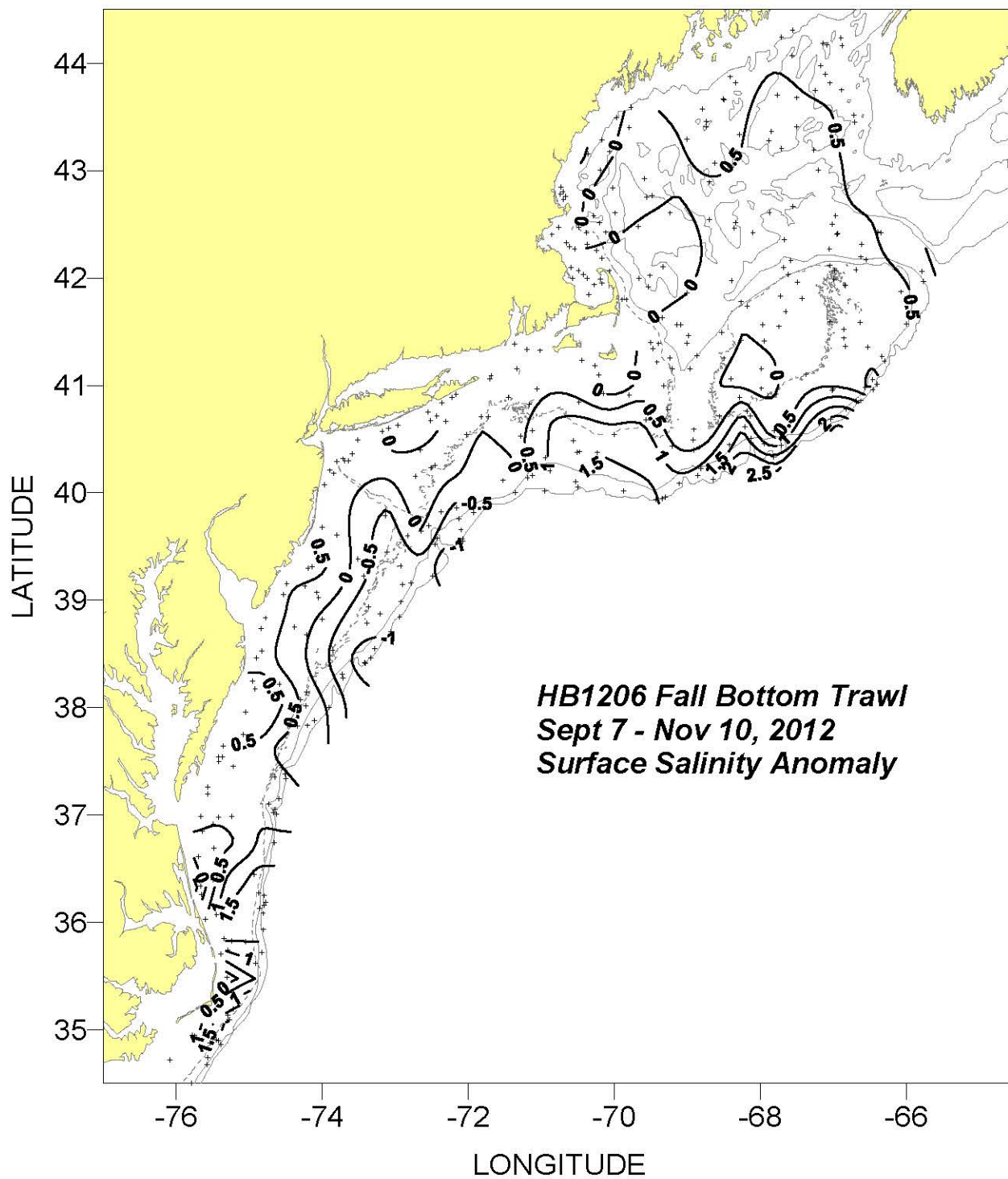
"SDV1", the standard deviation associated with the average temp/salt anomaly: "SDV2", the standard deviation of the individual anomalies from which the average anomaly was derived
 "Flag", a value of "1" indicates that a true areal average could not be calculated due to poor station coverage. The areal averages listed were derived from a simple average of the observations within the region.

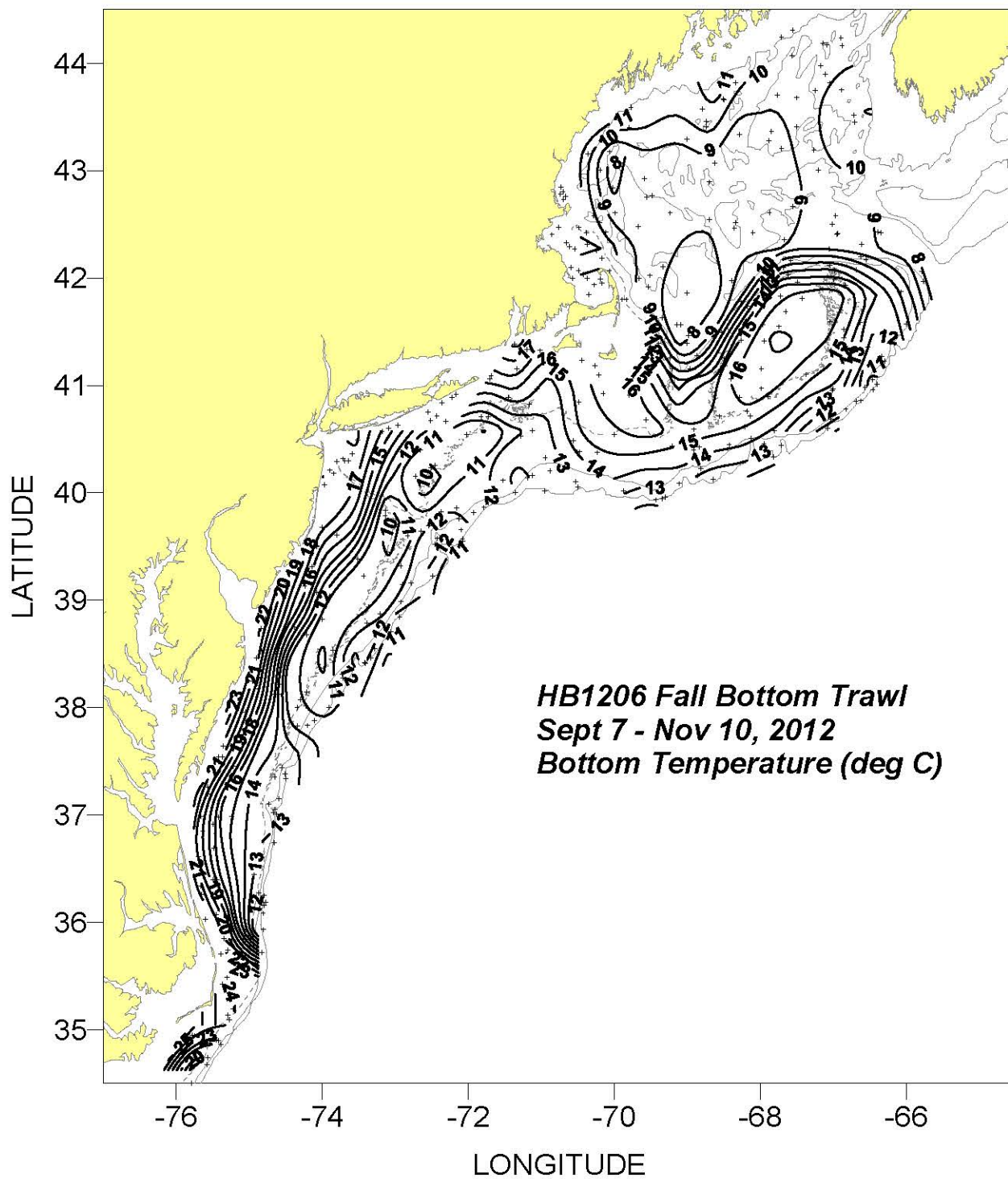
"Purpose", 2 digit code assigned by DMS to identify a unique NEFSC program survey.

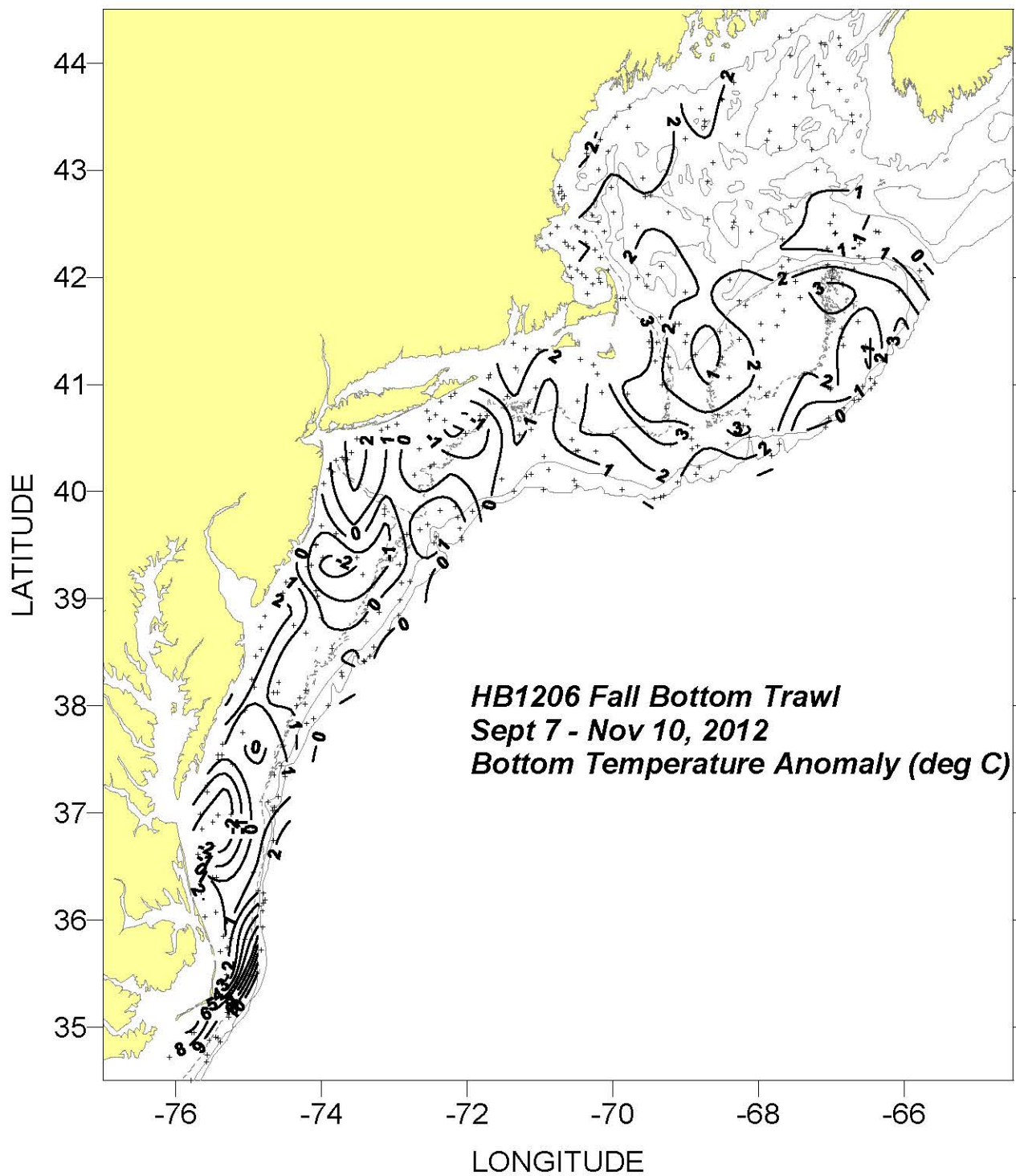


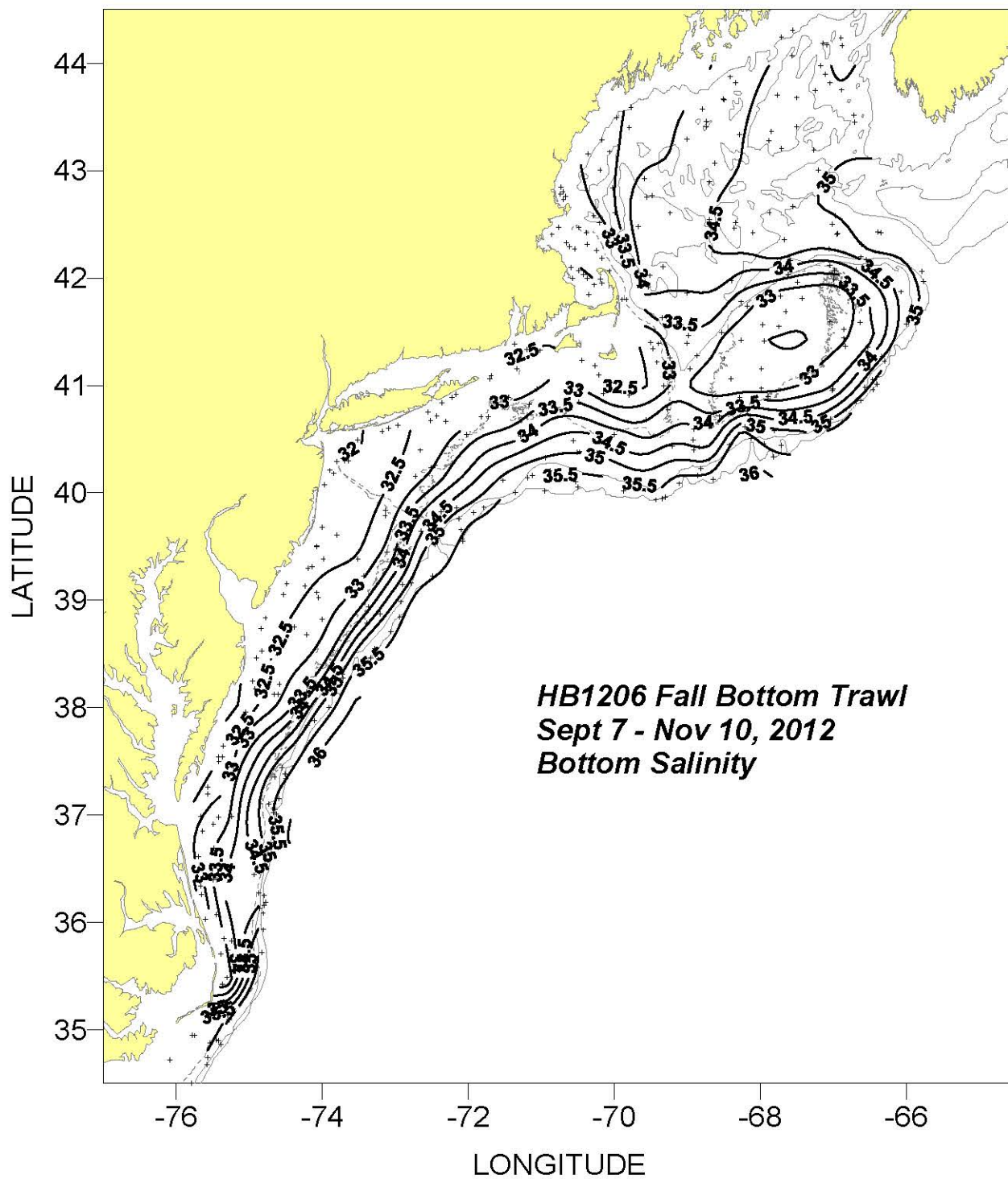


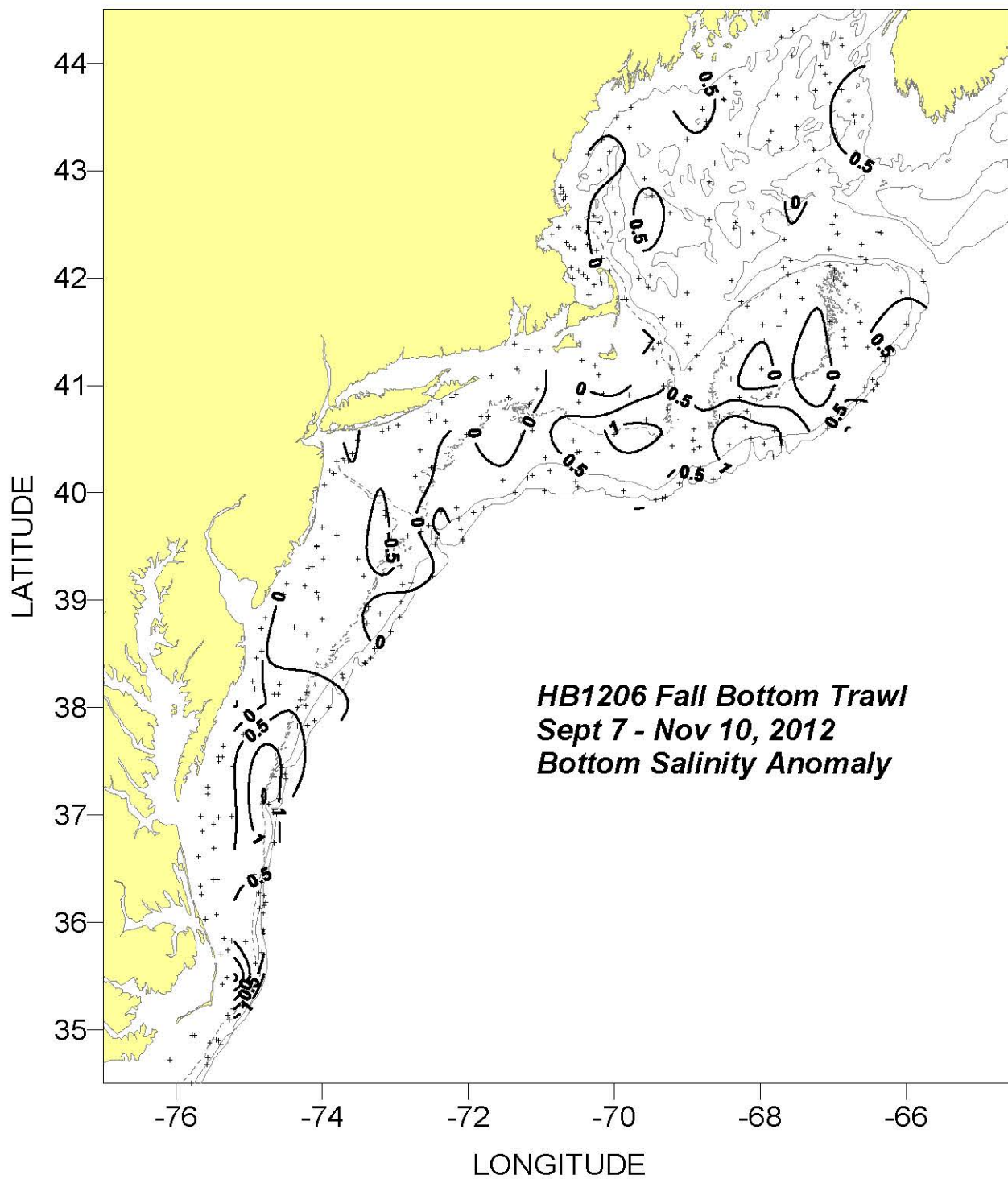












HB1206 Fall Bottom Trawl Survey
Sept. 7 - Nov. 10, 2012

Cast #	Site-ID #	Lat (deg N)	Long (deg W)	Day	Mo	Year	Time (GMT)	Btm Depth (m)	Sfc Temp (deg C)	Sfc Salt	Deepest Observed Temp (deg C)	Deepest Observed Salt	Meters from Bottom	Method of Deployment
1	1410	3832.8	7316.9	7	9	2012	5:13	133	25.22	31.73	12.89	35.61	5	B
2	1415	3827.9	7319.9	7	9	2012	7:39	290	25.17	31.87	9.21	35.20	4	W
3	1406	3825.3	7325.3	7	9	2012	10:11	117	25.26	32.13	14.20	35.74	6	V
4	1409	3824.7	7324.5	7	9	2012	14:00	221	25.26	32.15	10.81	35.37	6	V
5	1401	3832.2	7351.4	7	9	2012	16:07	57	25.73	31.57	8.81	32.89	4	W
6	1405	3818.8	7343.7	7	9	2012	18:31	116	26.37	32.60	13.64	35.69	5	B
7	1404	3816.7	7343.0	7	9	2012	20:07	121	27.02	32.52	13.64	35.70	5	V
8	1408	3800.2	7354.2	7	9	2012	23:19	241	26.20	32.58	10.16	35.28	1	V
9	1330	3808.9	7412.8	8	9	2012	2:46	50	26.11	32.33	10.18	33.39	4	V
10	1329	3804.3	7418.0	8	9	2012	4:13	54	26.14	32.63	10.65	33.67	5	W
11	1400	3760.0	7420.6	8	9	2012	5:33	58	26.09	32.76	10.93	33.85	5	V
12	1399	3800.9	7413.2	8	9	2012	6:55	68	26.02	32.60	13.31	35.18	3	V
13	1407	3752.9	7406.2	8	9	2012	10:16	171	26.21	33.27	11.45	35.44	12	B
14	1402	3750.0	7412.3	8	9	2012	13:16	109	26.12	33.02	13.77	35.70	4	V
15	1403	3749.9	7420.1	8	9	2012	14:58	66	26.09	32.77	11.69	34.10	5	V
16	1395	3726.3	7433.0	8	9	2012	18:16	89	26.52	32.75	14.37	35.70	4	W
17	1397	3723.1	7430.4	8	9	2012	19:49	119	26.65	32.81	13.92	35.73	6	V
18	1324	3720.5	7429.7	8	9	2012	21:58	151	26.67	32.79	12.87	35.56	5	V
19	1393	3721.2	7439.1	9	9	2012	0:31	72	26.77	33.20	13.96	35.50	4	V
20	1394	3709.0	7435.7	9	9	2012	3:16	103	26.41	33.62	14.45	35.74	5	V
21	1323	3703.0	7438.8	9	9	2012	5:39	319	26.32	33.66	9.56	35.26	13	W
22	1323	3706.3	7443.6	9	9	2012	6:46	160	26.59	33.58	12.99	35.64	7	B
23	1398	3701.4	7440.1	9	9	2012	9:10	92	26.14	33.22	14.76	35.85	5	V
24	1396	3700.5	7437.3	9	9	2012	10:34	182	26.09	33.12	14.80	35.92	4	V
25	1322	3644.6	7439.6	9	9	2012	15:04	193	26.14	33.31	12.51	35.58	3	V
26	1382	3626.6	7455.8	9	9	2012	17:08	36	26.61	33.77	12.73	34.00	4	B
27	1381	3623.9	7526.2	9	9	2012	20:23	25	26.13	32.94	18.10	34.21	8	B
28	1379	3623.8	7529.5	9	9	2012	21:55	31	25.94	32.88	17.77	34.22	4	W
29	1163	3636.6	7541.5	10	9	2012	0:22	17	24.86	31.58	19.90	33.22	6	B
30	1389	3641.6	7528.9	10	9	2012	2:15	27	25.16	31.51	18.07	33.41	7	B
31	1390	3659.1	7514.4	10	9	2012	5:04	36	24.84	32.62	13.41	33.36	4	B
32	1388	3658.7	7525.2	10	9	2012	7:01	33	24.32	32.33	14.99	33.40	6	B
33	1386	3655.0	7529.4	10	9	2012	8:33	27	24.42	32.19	16.16	33.44	6	B
34	1165	3651.0	7538.2	10	9	2012	10:30	20	24.68	31.27	18.99	33.13	4	W
35	1164	3659.2	7539.6	10	9	2012	12:22	21	24.64	31.60	18.41	33.15	5	B
36	1429	3620.2	7540.0	13	9	2012	0:10	22	24.00	31.23	22.00	32.45	5	W
37	1431	3615.4	7539.1	13	9	2012	1:28	24	24.07	31.37	20.77	33.00	3	B

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38	1432	3601.8	7536.0	13	9	2012	3:42	24	24.08	29.31	24.03	31.72	2	V
39	1430	3604.5	7526.8	13	9	2012	5:25	25	23.95	32.52	18.84	33.64	2	V
40	1428	3551.0	7520.7	13	9	2012	7:31	31	23.73	32.76	22.10	33.47	5	V
41	1380	3549.6	7514.5	13	9	2012	8:43	35	24.19	33.74	18.94	33.91	4	V
42	1436	3544.5	7517.4	13	9	2012	10:18	34	23.95	33.14	21.52	33.88	3	V
43	1434	3542.4	7523.3	13	9	2012	11:49	25	23.66	32.58	23.72	32.81	4	B
44	1433	3529.1	7518.0	13	9	2012	14:26	26	24.07	32.80	24.02	32.89	3	V
45	1435	3525.3	7522.2	13	9	2012	15:46	23	24.07	32.89	24.43	33.37	4	W
46	1503	3511.6	7513.3	13	9	2012	18:01	24	27.21	36.01	27.13	36.01	4	V
47	1500	3508.2	7517.6	13	9	2012	19:23	33	27.34	36.00	26.82	36.02	3	V
48	1508	3505.5	7516.1	13	9	2012	21:40	68	28.22	36.14	26.43	36.09	3	V
49	2272	3456.7	7544.7	14	9	2012	1:34	30	27.32	35.99	25.36	36.11	4	V
50	1501	3457.0	7546.9	14	9	2012	2:39	28	27.29	35.98	25.92	36.11	3	V
51	1505	3443.1	7605.3	14	9	2012	5:00	34	26.92	35.96	26.59	36.06	6	W
52	1447	3423.0	7550.2	14	9	2012	9:00	242	26.55	35.98	12.41	35.56	7	V
53	1446	3426.6	7549.1	14	9	2012	10:40	175	26.46	35.83	14.39	35.85	4	V
54	1444	3430.1	7547.1	14	9	2012	12:49	146	26.73	35.98	15.97	36.08	4	V
55	1448	3440.4	7534.5	14	9	2012	16:16	262	26.83	35.90	11.35	35.40	5	W
56	1507	3444.6	7534.0	14	9	2012	18:25	135	26.96	35.97	15.36	36.00	3	V
57	1504	3452.8	7532.4	14	9	2012	20:13	61	26.88	35.63	21.11	36.22	4	V
58	1506	3454.2	7527.2	14	9	2012	21:47	93	27.17	36.01	18.63	36.16	3	V
59	1445	3454.0	7524.9	14	9	2012	23:04	130	26.88	35.99	17.24	36.12	2	V
60	1449	3451.6	7523.3	15	9	2012	1:00	258	26.70	35.96	12.32	35.54	2	V
61	1384	3537.2	7454.5	15	9	2012	6:16	54	24.64	33.83	26.70	35.98	3	W
62	1320	3543.0	7449.8	15	9	2012	8:37	325	23.93	32.91	8.64	35.16	5	V
63	1378	3549.1	7502.9	15	9	2012	11:33	43	23.70	32.42	19.07	34.83	5	V
64	1321	3555.9	7448.5	15	9	2012	15:40	343	26.22	35.71	8.88	35.15	13	W
65	1318	3605.0	7448.6	15	9	2012	17:01	125	26.67	36.12	14.33	35.72	4	V
66	1385	3607.9	7451.3	15	9	2012	18:52	92	25.92	35.24	14.23	35.61	3	V
67	1316	3609.6	7447.9	15	9	2012	20:13	129	26.44	35.75	14.52	35.78	3	V
68	1319	3611.4	7446.6	15	9	2012	22:17	248	25.60	34.35	8.89	35.15	1	V
69	1317	3614.9	7447.9	16	9	2012	0:26	114	25.27	33.86	14.58	35.70	4	V
70	1383	3616.6	7451.9	16	9	2012	2:04	80	25.11	33.84	11.53	33.92	7	B
71	1427	3711.6	7534.1	16	9	2012	8:28	20	22.60	32.31	22.47	32.32	2	W
72	1426	3715.8	7533.9	16	9	2012	9:34	22	22.59	32.38	21.97	32.33	4	V
73	1392	3727.1	7512.9	16	9	2012	11:58	31	23.44	32.98	14.70	33.11	2	V
74	1425	3729.9	7524.9	16	9	2012	13:52	27	22.87	32.53	21.44	32.46	4	V
75	1424	3732.5	7525.0	16	9	2012	15:03	20	22.39	32.29	22.15	32.27	2	V

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76	1391	3732.6	7522.0	16	9	2012	16:46	25	23.14	32.64	21.75	32.52	5	W
77	1422	3738.5	7521.3	16	9	2012	18:31	16	22.61	32.29	22.56	32.36	4	V
78	1387	3745.1	7504.9	16	9	2012	21:32	29	23.64	32.47	16.63	32.83	4	B
79	1423	3757.4	7503.1	16	9	2012	23:31	22	22.23	31.89	22.13	31.90	4	V
80	1326	3807.5	7439.5	17	9	2012	2:04	32	23.32	32.32	13.47	32.84	5	B
81	1327	3807.4	7436.2	17	9	2012	3:22	38	23.88	32.34	13.06	32.83	6	B
82	1331	3813.2	7435.2	17	9	2012	4:49	41	23.87	32.22	12.25	32.81	6	B
83	1419	3810.4	7455.1	17	9	2012	6:58	24	21.92	31.82	19.86	32.32	4	W
84	1420	3814.9	7457.3	17	9	2012	8:15	15	21.72	31.62	21.84	31.86	3	V
85	1421	3827.8	7454.1	17	9	2012	10:16	22	22.50	32.29	22.51	32.28	6	B
86	1416	3831.5	7449.6	17	9	2012	11:58	28	23.54	32.29	16.03	32.64	3	V
87	1417	3844.2	7450.3	17	9	2012	13:58	19	22.57	32.06	22.33	32.05	3	V
88	1418	3850.0	7446.7	17	9	2012	15:13	17	23.67	32.17	21.19	32.37	2	V
89	1325	3845.1	7422.6	17	9	2012	17:40	39	24.55	32.25	13.55	32.66	6	B
90	1328	3840.9	7412.7	17	9	2012	19:27	44	24.47	32.13	11.27	32.68	4	W
91	1333	3849.3	7359.9	17	9	2012	21:30	47	24.21	31.99	10.18	32.79	5	B
92	1337	3901.6	7403.0	17	9	2012	23:37	41	23.91	32.06	13.11	32.59	7	B
93	1336	3904.3	7404.4	18	9	2012	1:19	37	23.96	32.29	14.03	32.54	3	V
94	1162	3908.1	7414.3	18	9	2012	3:19	23	23.61	32.29	19.11	32.35	5	B
95	1161	3903.3	7432.0	18	9	2012	5:31	18	21.75	32.15	21.52	32.16	2	W
96	1160	3909.2	7429.0	18	9	2012	6:55	20	22.26	32.26	19.70	32.20	3	V
97	1158	3917.8	7411.7	18	9	2012	9:08	22	22.12	32.14	16.81	32.22	4	V
98	1156	3918.6	7408.3	18	9	2012	10:34	28	22.51	32.22	15.69	32.38	4	B
99	1157	3923.2	7359.0	18	9	2012	12:37	30	23.22	32.34	14.84	32.39	4	V
100	1159	3930.1	7404.4	18	9	2012	14:31	24	22.71	32.16	16.49	32.12	1	B
101	1159	3930.2	7404.6	18	9	2012	14:40	26	22.70	32.14	16.60	32.05	7	V
102	1332	3936.6	7348.1	18	9	2012	16:51	23	23.24	32.09	21.10	32.03	6	W
103	1155	3940.8	7359.9	18	9	2012	18:46	23	22.52	32.02	16.75	32.04	8	V
104	1154	4004.5	7358.1	18	9	2012	21:43	23	21.99	31.69	19.86	31.84	6	V
105	1153	4010.8	7350.7	19	9	2012	3:58	25	21.86	31.83	10.49	32.44	4	W
106	1150	4018.0	7341.4	19	9	2012	5:55	27	22.75	31.80	15.66	32.10	2	V
107	1147	4018.0	7338.4	19	9	2012	7:10	25	22.90	31.78	20.18	31.86	5	V
108	1151	4019.0	7342.8	19	9	2012	8:34	27	22.47	31.80	14.65	32.20	5	V
109	1452	4017.5	7347.8	19	9	2012	9:58	59	21.27	31.73	9.44	32.60	6	V
110	1898	4012.5	7353.8	19	9	2012	12:16	24	20.59	31.78	12.00	32.41	3	V
111	1148	4022.0	7335.3	19	9	2012	14:36	26	22.50	31.77	21.88	31.83	5	V
112	1149	4029.6	7331.0	19	9	2012	16:01	24	20.99	31.81	18.88	31.89	5	W
113	1146	4034.2	7310.8	19	9	2012	18:19	24	19.84	31.47	16.68	32.03	8	B

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114	1145	4036.1	7305.3	19	9	2012	19:31	22	20.10	31.46	15.17	32.28	3	V
115	1144	4037.8	7257.6	19	9	2012	20:46	25	20.34	31.51	15.04	32.29	4	V
116	1456	4045.3	7233.0	19	9	2012	23:13	28	19.94	31.52	14.07	32.49	4	V
117	1453	4040.4	7230.8	20	9	2012	0:25	40	20.88	31.56	12.50	32.64	7	B
118	1437	4123.0	7121.7	24	9	2012	20:00	33	19.32	32.22	18.35	32.32	5	W
119	1438	4120.0	7111.9	24	9	2012	22:02	32	18.98	32.29	18.87	32.29	6	B
120	1439	4119.5	7100.9	24	9	2012	23:40	31	19.47	32.42	16.68	32.51	4	V
121	1473	4109.5	7120.1	25	9	2012	2:22	41	19.17	32.26	14.20	32.72	6	B
122	1472	4058.0	7103.5	25	9	2012	5:04	51	18.01	32.49	12.55	33.04	6	W
123	1483	4049.3	7109.6	25	9	2012	7:19	62	20.27	32.59	9.78	32.96	6	V
124	1478	4034.9	7107.1	25	9	2012	9:43	70	20.18	32.69	11.69	33.82	2	V
125	1480	4031.7	7116.8	25	9	2012	11:31	70	20.19	33.29	11.43	33.85	2	V
126	1482	4019.7	7056.7	25	9	2012	14:51	99	22.94	34.86	13.26	35.15	7	B
127	1487	4012.2	7052.9	25	9	2012	16:52	130	22.11	34.54	13.28	35.66	4	W
128	1486	4009.7	7107.4	25	9	2012	18:49	138	20.93	34.08	13.11	35.62	2	V
129	1488	4008.4	7111.3	25	9	2012	20:16	142	20.66	33.95	13.60	35.67	5	V
130	1489	4001.1	7057.1	25	9	2012	22:51	263	23.39	35.07	10.46	35.28	6	V
131	1491	4000.2	7121.1	26	9	2012	1:52	160	20.38	33.29	12.97	35.61	6	B
132	1484	4006.9	7131.5	26	9	2012	4:41	90	20.49	33.33	13.22	35.09	5	B
133	1470	3951.8	7147.0	26	9	2012	7:30	195	20.40	32.98	11.56	35.44	4	W
134	1465	3948.9	7155.5	26	9	2012	9:28	154	21.54	33.75	13.49	35.68	4	V
135	1469	3934.2	7204.7	26	9	2012	12:38	260	20.82	32.68	13.29	35.66	54	B
136	1469	3933.1	7204.3	26	9	2012	13:19	322	20.82	32.71	8.18	35.13	5	V
137	1468	3939.3	7206.0	26	9	2012	15:55	150	20.70	32.55	13.90	35.70	5	W
138	1466	3945.7	7207.5	26	9	2012	18:07	117	20.96	33.10	13.90	35.57	4	V
139	1464	3951.6	7209.6	26	9	2012	19:58	91	20.78	33.09	12.72	34.80	4	B
140	1459	3949.5	7222.4	26	9	2012	21:52	83	21.03	32.46	11.87	34.29	5	V
141	1471	3934.5	7225.5	27	9	2012	2:16	441	20.87	32.60	7.47	35.11	38	V
142	1467	3931.3	7227.2	27	9	2012	4:50	115	20.81	32.56	13.62	35.60	5	W
143	1457	3941.5	7232.4	27	9	2012	7:10	80	21.14	33.00	13.29	35.24	1	V
144	1458	3938.7	7238.9	27	9	2012	8:33	79	21.10	32.99	12.07	34.44	5	B
145	1460	3936.2	7249.8	27	9	2012	10:21	67	20.03	32.12	9.34	33.16	5	B
146	1339	3919.3	7255.5	27	9	2012	12:40	68	20.01	31.94	10.35	33.71	7	V
147	1411	3909.5	7246.8	27	9	2012	15:04	115	21.46	33.08	13.97	35.65	6	V
148	2238	3913.5	7229.2	27	9	2012	17:43	200	21.69	33.45	12.05	35.49	4	W
149	1338	3908.8	7253.8	27	9	2012	20:30	88	21.95	33.03	13.87	35.29	3	B
150	1412	3859.1	7255.3	27	9	2012	23:06	97	21.86	33.32	14.06	35.55	6	B
151	1414	3850.7	7256.3	28	9	2012	1:02	206	21.84	33.22	10.54	35.33	3	V

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152	1413	3842.5	7303.7	28	9	2012	4:03	248	21.74	33.12	9.29	35.21	5	V
153	1342	3847.3	7323.2	28	9	2012	6:52	78	21.70	32.03	12.27	34.67	6	W
154	1341	3852.4	7312.2	28	9	2012	8:43	82	21.18	32.22	13.13	34.90	5	V
155	1340	3856.3	7322.0	28	9	2012	10:28	68	21.11	32.20	9.57	33.22	6	V
156	1335	3913.5	7326.0	28	9	2012	12:43	44	21.20	31.94	10.45	32.57	5	V
157	1334	3923.0	7330.6	28	9	2012	14:28	46	21.55	31.97	10.41	32.67	3	B
158	1461	3926.9	7306.6	28	9	2012	17:04	66	20.85	31.81	9.28	33.01	3	W
159	1450	3947.1	7308.2	28	9	2012	19:55	50	20.95	31.79	9.18	32.69	4	B
160	1455	3950.4	7307.9	28	9	2012	22:00	55	20.65	32.09	8.90	32.80	8	B
161	1454	4009.2	7243.4	29	9	2012	1:25	57	21.00	32.49	8.94	32.73	4	B
162	1462	4014.1	7230.7	29	9	2012	3:24	62	21.00	32.55	8.85	32.81	4	B
163	1463	4015.3	7227.1	29	9	2012	5:55	59	20.91	32.14	9.26	32.87	5	W
164	1451	4023.8	7239.4	29	9	2012	8:07	48	19.62	31.94	11.16	32.76	6	V
165	1477	4032.5	7201.2	29	9	2012	11:40	60	19.19	32.05	9.82	32.95	7	B
166	1479	4042.5	7143.3	29	9	2012	14:01	62	20.52	32.79	10.39	33.19	5	B
167	1476	4042.6	7149.4	29	9	2012	15:37	56	20.29	32.71	9.97	33.11	7	B
168	1475	4039.8	7218.3	29	9	2012	18:22	47	19.09	32.04	11.56	32.78	4	W
169	1474	4043.1	7225.8	29	9	2012	19:49	34	19.41	32.03	15.54	32.45	5	B
170	1143	4050.5	7221.7	29	9	2012	21:36	24	19.21	31.84	18.81	32.02	3	V
171	1142	4053.5	7213.5	29	9	2012	22:55	24	18.68	31.72	18.68	31.87	3	V
172	1141	4055.0	7209.9	29	9	2012	23:53	21	18.65	32.05	18.67	32.07	5	V
174	1344	4103.9	7142.3	30	9	2012	4:22	43	18.55	32.20	15.15	32.79	6	W
175	1343	4105.4	7141.2	30	9	2012	5:52	33	19.02	32.41	18.06	32.25	4	V
176	1481	4053.5	7127.1	30	9	2012	8:13	33	18.90	32.42	18.37	32.65	6	B
177	1495	4050.7	7028.9	30	9	2012	12:48	55	19.78	33.34	14.00	33.33	8	B
178	1440	4114.1	7026.4	30	9	2012	15:49	33	17.87	32.08	17.19	32.47	5	W
179	1441	4110.9	7015.9	30	9	2012	17:37	28	17.89	32.11	17.67	32.28	5	B
180	1442	4105.9	7012.8	30	9	2012	18:57	27	17.85	32.16	17.53	32.29	5	V
181	1443	4055.5	7009.1	30	9	2012	20:34	26	17.47	32.16	16.99	32.34	4	V
182	1496	4054.7	6947.6	1	10	2012	0:31	36	16.33	32.08	16.27	32.09	4	B
183	1494	4041.0	6933.9	1	10	2012	2:52	49	16.51	33.17	16.74	33.31	6	V
184	1493	4046.3	6915.8	1	10	2012	5:39	57	17.03	33.46	17.98	33.97	9	B
185	1492	4059.9	6919.1	1	10	2012	11:28	48	14.59	32.71	14.66	32.87	3	V
186	1247	4109.5	6912.3	1	10	2012	12:37	72	16.68	32.65	9.29	32.93	5	W
187	1248	4109.2	6857.5	1	10	2012	17:46	104	16.77	33.26	9.58	33.17	8	V
188	1246	4115.3	6914.2	1	10	2012	20:21	88	17.54	32.58	8.04	33.07	5	V
189	1259	4113.0	6924.7	1	10	2012	22:38	44	13.57	32.61	12.25	32.67	3	V
190	1262	4120.7	6928.1	2	10	2012	1:32	32	13.62	32.49	13.17	32.51	3	V

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191	1261	4123.4	6923.4	2	10	2012	4:22	43	12.84	32.55	11.93	32.58	6	W
192	1260	4124.1	6930.2	2	10	2012	7:11	36	16.84	32.37	12.69	32.57	6	V
193	1255	4137.8	6920.5	2	10	2012	9:46	165	17.11	32.01	7.54	33.74	3	V
194	1250	4148.0	6950.0	2	10	2012	13:04	77	17.33	31.93	9.77	32.74	6	B
195	1348	4148.0	6953.3	2	10	2012	15:31	31	16.20	32.09	11.53	32.39	5	W
196	1278	4159.8	6939.4	2	10	2012	23:04	209	17.49	31.94	8.21	34.31	8	B
197	1276	4206.3	6919.9	3	10	2012	2:07	212	17.52	32.01	8.23	34.35	5	V
198	1274	4201.4	6930.7	3	10	2012	4:37	217	17.65	32.04	8.28	34.42	3	W
199	1258	4155.0	6931.8	3	10	2012	7:01	211	17.72	32.00	8.26	34.37	6	V
200	1256	4151.8	6900.3	3	10	2012	10:16	163	17.56	32.22	7.62	33.82	4	B
201	1254	4133.8	6908.7	3	10	2012	13:23	169	17.75	32.43	7.41	33.63	4	V
202	1252	4134.0	6905.2	3	10	2012	15:25	163	17.68	32.37	7.35	33.59	6	B
203	1253	4127.9	6858.8	3	10	2012	17:34	155	17.38	32.88	7.16	33.34	7	B
204	1251	4123.6	6900.0	3	10	2012	19:19	152	17.50	32.51	7.16	33.34	4	V
205	1245	4116.8	6852.1	3	10	2012	21:37	108	17.84	32.69	8.28	33.09	3	V
206	1231	4115.2	6830.0	4	10	2012	0:34	51	17.52	32.58	16.61	32.73	5	V
207	1223	4103.9	6823.9	4	10	2012	4:30	48	17.59	32.50	17.62	32.49	7	W
208	1225	4053.4	6816.7	4	10	2012	8:26	52	17.41	32.48	16.72	32.57	12	B
209	1230	4042.8	6833.5	4	10	2012	12:01	59	17.75	32.14	16.03	32.67	5	V
210	1175	4035.4	6854.5	4	10	2012	14:25	68	19.59	33.00	14.60	33.78	6	V
211	1180	4029.7	6855.3	4	10	2012	16:04	75	19.21	32.44	14.10	33.82	7	B
212	1191	4025.5	6850.2	4	10	2012	18:12	81	20.61	33.06	15.35	35.10	2	B
213	1176	4024.1	6854.7	4	10	2012	20:08	84	20.12	32.63	15.13	34.79	6	B
214	1178	4026.0	6912.4	4	10	2012	22:02	80	19.51	32.92	15.01	34.70	3	V
215	1174	4032.6	6959.8	11	10	2012	6:26	63	19.79	34.10	15.77	34.30	6	W
216	1173	4022.5	7014.0	11	10	2012	11:52	82	18.96	33.73	14.37	35.00	8	V
217	1179	4022.9	7028.4	11	10	2012	14:31	84	20.35	34.80	13.20	34.99	5	B
218	1177	4029.0	7033.8	11	10	2012	16:55	73	20.55	34.73	15.81	35.05	5	B
219	1172	4022.8	7030.7	11	10	2012	18:57	86	20.63	34.95	13.09	35.00	7	B
220	1485	4006.4	7031.6	11	10	2012	21:40	124	20.88	35.05	13.88	35.78	4	W
221	1490	4003.3	7029.6	11	10	2012	23:53	227	22.02	35.31	12.29	35.57	3	V
222	1181	4001.0	6952.5	12	10	2012	3:47	146	22.83	35.38	13.98	35.75	7	W
223	1186	3956.1	6925.7	12	10	2012	7:10	249	23.32	35.48	11.25	35.43	5	V
224	1187	3956.8	6920.4	12	10	2012	9:43	279	23.31	35.51	10.64	35.36	6	V
225	1185	3957.5	6917.8	12	10	2012	11:43	280	23.33	35.53	10.39	35.32	4	V
226	1182	4005.2	6906.7	12	10	2012	14:19	151	22.16	35.36	13.33	35.71	3	V
227	1184	4009.7	6851.1	12	10	2012	16:49	155	22.88	35.53	13.57	35.73	5	W
228	1183	4013.6	6848.7	12	10	2012	18:57	118	22.38	35.46	14.58	35.84	5	B

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229	1203	4007.6	6838.6	12	10	2012	23:43	185	23.03	35.49	11.88	35.52	3	V
230	1193	4026.8	6825.5	13	10	2012	10:19	99	19.89	34.56	14.74	35.76	2	W
231	1197	4036.8	6812.5	13	10	2012	13:00	93	19.28	34.21	15.11	35.56	3	V
232	1195	4030.3	6807.5	13	10	2012	14:51	123	21.77	35.36	13.08	35.68	6	V
233	1201	4027.3	6756.9	13	10	2012	17:10	130	21.51	35.39	13.51	35.72	4	W
234	1204	4020.0	6749.2	13	10	2012	19:31	248	22.58	35.58	12.57	35.60	5	V
235	1200	4026.5	6742.5	13	10	2012	21:55	142	20.42	34.66	13.52	35.71	3	V
236	1192	4034.8	6748.3	13	10	2012	23:46	92	16.41	32.91	13.86	35.08	5	B
237	1188	4043.0	6808.3	14	10	2012	2:19	76	17.37	33.34	13.87	33.99	5	V
238	1194	4045.5	6810.9	14	10	2012	4:00	65	16.24	32.82	13.94	33.21	5	B
239	1189	4053.9	6753.6	14	10	2012	6:41	61	16.26	32.64	15.77	32.69	7	B
240	1222	4058.3	6758.9	14	10	2012	8:16	56	16.59	32.60	16.15	32.65	8	B
241	1227	4109.5	6758.9	14	10	2012	11:55	46	17.05	32.55	17.07	32.55	6	B
242	1196	4106.1	6722.5	14	10	2012	15:22	62	16.00	32.75	15.68	32.77	7	B
243	1210	4058.1	6700.3	14	10	2012	18:16	78	16.26	32.82	13.11	33.11	5	W
244	1190	4057.4	6700.8	14	10	2012	19:43	79	16.24	32.81	13.02	33.15	5	B
245	1198	4041.3	6702.1	14	10	2012	22:06	138	23.08	35.73	11.70	35.52	3	B
246	1202	4036.2	6704.6	15	10	2012	0:00	200	23.20	35.80	8.91	35.20	6	V
247	1199	4046.7	6649.6	15	10	2012	3:07	126	23.77	35.81	13.53	35.66	4	B
248	1511	4051.1	6641.3	15	10	2012	5:24	169	23.43	35.69	12.91	35.58	9	W
249	1221	4051.4	6637.1	15	10	2012	7:39	270	19.22	33.97	7.61	35.10	6	V
250	1220	4057.7	6627.4	15	10	2012	11:40	357	18.53	33.59	6.22	35.03	6	V
251	1217	4059.1	6633.8	15	10	2012	14:45	102	16.60	32.82	13.09	35.11	7	B
252	1512	4103.3	6627.5	15	10	2012	16:49	137	16.06	32.72	12.22	34.96	4	W
253	1969	4100.7	6623.8	15	10	2012	19:19	552	18.29	33.41	5.49	35.00	47	V
254	1510	4113.6	6617.8	15	10	2012	22:23	125	15.99	32.81	12.14	34.80	3	V
255	1212	4116.1	6619.9	16	10	2012	0:10	99	17.10	33.05	11.04	34.08	6	V
256	1206	4121.3	6631.4	16	10	2012	2:16	92	15.84	32.77	11.31	33.41	4	V
257	1207	4121.9	6649.9	16	10	2012	5:48	72	16.05	32.86	14.17	33.07	7	B
258	1213	4126.4	6651.4	16	10	2012	7:18	73	16.07	32.84	15.32	32.94	8	B
259	1209	4135.7	6702.7	16	10	2012	9:55	62	16.74	32.70	16.75	32.71	6	B
260	1208	4131.4	6651.4	16	10	2012	12:43	70	16.14	32.82	15.83	32.89	5	V
261	1215	4135.4	6637.7	16	10	2012	14:38	80	15.64	32.90	14.54	33.00	1	B
262	2283	4134.3	6559.7	16	10	2012	20:36	125	16.42	33.03	13.11	35.01	5	W
263	1205	4152.3	6604.3	17	10	2012	4:28	97	15.10	32.88	11.85	33.26	10	B
264	1966	4158.3	6545.6	17	10	2012	7:26	245	16.08	33.22	7.03	35.07	6	W
265	1281	4203.9	6546.9	17	10	2012	9:31	262	17.81	33.81	6.90	35.07	5	V
266	1284	4225.3	6620.6	17	10	2012	15:25	259	15.34	32.85	9.29	35.24	2	W

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267	1287	4225.8	6623.3	17	10	2012	18:58	262	15.53	32.85	9.09	35.21	3	V
268	1291	4218.9	6636.8	18	10	2012	0:48	290	15.12	32.85	8.49	35.09	6	V
269	1241	4211.8	6637.4	18	10	2012	3:28	215	15.04	32.88	8.95	35.10	7	W
270	1242	4210.1	6633.1	18	10	2012	5:37	164	15.58	32.87	10.24	34.70	7	V
271	1237	4204.7	6641.3	18	10	2012	7:46	73	15.42	32.84	13.98	33.12	5	V
272	1211	4156.0	6650.1	18	10	2012	10:03	60	15.93	32.81	15.92	32.81	4	B
273	1214	4159.4	6659.2	18	10	2012	12:07	63	15.66	32.79	15.65	32.79	8	B
274	1216	4204.2	6659.0	18	10	2012	14:23	63	15.26	32.84	15.13	32.85	6	V
275	1238	4207.0	6702.5	18	10	2012	17:53	64	15.73	32.79	13.57	33.06	5	W
276	2041	4216.3	6703.1	18	10	2012	19:36	270	15.67	32.87	8.42	35.09	5	V
277	1290	4224.5	6657.0	18	10	2012	22:06	366	14.60	32.92	8.45	35.10	4	V
278	1290	4224.9	6656.5	18	10	2012	22:34	365	14.65	32.91	9.27	35.19	165	B
279	1292	4230.2	6700.7	19	10	2012	1:34	333	14.23	33.04	8.88	35.16	4	V
280	2048	4235.0	6658.0	19	10	2012	4:13	298	14.23	33.21	8.80	35.15	5	W
281	1285	4240.2	6733.2	19	10	2012	8:34	198	14.95	33.01	9.03	34.64	5	B
282	1282	4236.5	6752.5	19	10	2012	11:49	217	15.02	32.88	8.87	35.00	4	V
283	1289	4221.6	6740.0	19	10	2012	15:25	244	15.48	32.84	8.73	35.08	5	W
284	1243	4210.0	6734.8	19	10	2012	17:51	196	15.14	32.72	8.79	34.86	6	V
285	1244	4206.1	6740.6	19	10	2012	19:51	179	15.47	32.79	8.77	34.90	2	V
286	1239	4201.9	6736.9	19	10	2012	21:51	70	15.81	32.73	8.17	33.40	3	V
287	1224	4148.7	6725.7	20	10	2012	1:21	44	16.36	32.65	16.29	32.65	1	B
288	1979	4157.6	6729.4	20	10	2012	3:19	47	16.51	32.65	16.43	32.66	4	W
289	1236	4149.8	6743.2	20	10	2012	6:16	38	16.88	32.56	16.87	32.56	5	V
290	1228	4141.3	6739.1	20	10	2012	8:49	54	16.72	32.57	16.70	32.57	6	B
291	1226	4132.9	6744.8	20	10	2012	13:22	38	16.90	32.52	16.83	32.56	5	B
292	1233	4133.8	6757.8	20	10	2012	18:21	35	17.17	32.50	17.14	32.50	9	B
293	1229	4124.9	6756.5	20	10	2012	20:07	43	17.55	32.44	17.54	32.44	7	B
294	1234	4125.4	6815.6	20	10	2012	23:16	38	17.10	32.52	17.07	32.52	11	W
295	1249	4129.7	6831.5	21	10	2012	1:31	98	15.51	32.96	8.76	33.29	2	V
296	1232	4144.5	6810.8	21	10	2012	4:46	54	16.51	32.59	16.12	32.64	3	B
297	1240	4146.7	6815.6	21	10	2012	6:31	89	16.32	32.63	9.12	33.08	4	W
298	1257	4158.5	6823.6	21	10	2012	9:00	196	15.17	32.51	8.28	34.52	6	V
299	1286	4225.2	6805.9	21	10	2012	13:58	179	14.45	32.52	8.43	34.65	1	B
300	1288	4227.8	6821.2	21	10	2012	16:45	207	13.48	33.23	8.49	34.76	13	B
301	1283	4231.1	6820.2	21	10	2012	19:01	199	13.93	32.90	8.50	34.75	2	W
302	1312	4312.6	6742.4	22	10	2012	0:46	212	13.96	32.91	8.48	34.57	4	B
303	1307	4316.7	6752.9	22	10	2012	3:46	228	13.78	32.96	8.66	34.56	6	W
304	1304	4322.1	6750.7	22	10	2012	6:18	251	13.75	33.03	8.65	34.56	8	V

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Cast #	Site-ID #	Lat (deg N)	Long (deg W)	Day	Mo	Year	Time (GMT)	Btm Depth (m)	Sfc Temp (deg C)	Sfc Salt	Deepest Observed Temp (deg C)	Deepest Observed Salt	Meters from Bottom	Method of Deployment
305	1310	4324.7	6730.2	22	10	2012	9:28	196	13.80	33.09	9.02	34.55	6	V
306	1309	4311.5	6715.8	22	10	2012	12:30	210	13.90	33.21	9.48	34.74	2	B
307	1311	4300.2	6712.1	22	10	2012	15:28	207	14.17	33.07	9.87	35.07	2	B
308	1298	4327.2	6642.5	22	10	2012	20:00	150	13.47	33.43	11.84	34.62	4	B
309	1299	4331.1	6643.0	22	10	2012	22:06	135	13.32	33.54	11.52	34.67	1	W
310	1295	4345.1	6653.0	23	10	2012	0:56	158	13.51	33.35	10.55	34.47	5	V
311	1293	4349.0	6702.8	23	10	2012	2:57	178	13.23	33.42	9.39	34.51	4	V
312	1294	4344.9	6714.7	23	10	2012	5:03	170	13.40	33.37	10.01	34.74	7	W
313	1297	4353.8	6706.3	23	10	2012	11:38	157	13.22	33.41	9.38	34.51	5	V
314	1296	4358.6	6710.1	23	10	2012	13:53	140	13.02	33.48	9.38	34.55	11	B
315	1300	4411.3	6708.4	23	10	2012	16:30	125	12.49	33.62	10.08	34.46	8	B
316	1302	4410.2	6705.3	23	10	2012	18:52	93	12.52	33.64	10.85	34.25	4	W
317	1303	4409.8	6652.8	23	10	2012	21:37	182	13.13	33.46	9.57	34.45	4	V
318	1301	4414.3	6653.5	23	10	2012	23:04	182	13.09	33.49	9.68	34.47	4	V
319	1377	4418.7	6733.4	24	10	2012	3:27	104	12.25	33.42	11.39	34.00	8	W
320	2145	4414.6	6742.4	24	10	2012	13:15	113	12.21	33.45	11.02	34.17	7	V
321	1308	4404.3	6733.8	24	10	2012	15:36	207	12.62	33.53	9.45	34.75	4	B
322	1305	4340.8	6730.1	24	10	2012	18:58	227	13.36	33.27	9.12	34.62	3	W
323	1306	4342.1	6745.9	24	10	2012	21:46	236	13.19	33.40	9.32	34.73	3	V
324	1374	4352.4	6824.7	25	10	2012	1:46	123	12.29	33.46	11.29	34.07	4	V
325	1366	4349.1	6820.0	25	10	2012	4:24	143	12.40	33.56	10.05	34.35	6	W
326	1368	4320.1	6817.1	25	10	2012	8:04	179	12.70	33.46	8.49	34.42	5	V
327	1359	4317.7	6900.1	25	10	2012	12:34	156	12.96	33.35	8.66	34.05	7	V
328	1350	4150.8	7020.9	2	11	2012	0:01	28	12.80	32.06	11.85	32.33	4	W
329	1353	4156.2	7016.5	2	11	2012	2:17	37	12.35	32.22	11.02	32.50	3	V
330	1352	4157.1	7009.9	2	11	2012	3:55	32	12.57	32.18	11.40	32.44	5	W
331	1354	4159.3	7011.2	2	11	2012	5:18	36	12.56	32.18	10.86	32.49	5	V
332	1168	4159.8	7022.0	2	11	2012	7:28	51	12.74	32.03	10.52	32.46	6	V
333	1166	4202.0	7025.5	2	11	2012	8:43	52	12.42	32.15	10.80	32.44	4	V
334	1267	4215.4	7014.4	2	11	2012	11:26	32	12.02	32.25	11.99	32.27	5	B
335	1263	4211.1	7010.2	2	11	2012	12:51	40	11.95	32.13	11.97	32.37	4	V
336	1264	4225.6	7007.1	2	11	2012	15:00	79	12.31	32.23	9.13	32.89	6	V
337	1018	4230.8	7012.2	2	11	2012	17:19	80	12.33	32.23	9.08	32.83	5	W
338	1279	4228.7	6940.1	2	11	2012	20:19	262	12.39	32.53	8.30	34.47	6	V
339	1269	4236.4	6959.4	2	11	2012	23:13	133	12.73	32.86	8.21	33.35	7	V
340	1272	4250.4	7001.3	3	11	2012	2:01	159	12.80	32.93	7.80	33.58	4	V
341	1362	4255.6	6935.2	3	11	2012	5:25	164	12.68	32.87	8.06	33.77	5	B
342	1280	4245.4	6933.2	3	11	2012	8:13	206	12.88	32.92	8.30	34.51	4	B

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Cast #	Site-ID #	Lat (deg N)	Long (deg W)	Day	Mo	Year	Time (GMT)	Btm Depth (m)	Sfc Temp (deg C)	Sfc Salt	Deepest Observed Temp (deg C)	Deepest Observed Salt	Meters from Bottom	Method of Deployment
343	1361	4246.2	6928.7	3	11	2012	10:43	177	12.95	32.65	8.30	34.26	4	W
344	1275	4236.4	6913.9	3	11	2012	14:04	216	13.32	32.47	8.30	34.50	4	V
345	1277	4232.9	6841.9	3	11	2012	17:55	194	13.25	32.88	8.33	34.43	6	W
348	1360	4253.7	6841.8	4	11	2012	4:31	210	12.57	33.44	8.34	34.36	2	W
349	1364	4304.3	6837.4	4	11	2012	7:28	185	12.47	33.54	8.56	34.25	3	V
350	1372	4324.6	6844.3	4	11	2012	11:58	95	12.58	33.49	11.25	34.04	4	V
351	1370	4327.6	6844.4	4	11	2012	15:10	131	12.59	33.50	11.34	34.00	2	V
352	1367	4339.5	6829.5	4	11	2012	18:16	175	12.39	33.62	9.80	34.32	9	B
353	1365	4340.0	6830.3	4	11	2012	20:38	173	12.44	33.56	10.04	34.30	7	W
354	1371	4334.4	6847.3	4	11	2012	23:49	142	12.24	33.55	10.78	34.18	5	V
355	1313	4335.4	6946.2	5	11	2012	11:55	103	11.93	32.74	11.19	33.55	5	B
356	1314	4329.6	6958.1	5	11	2012	13:33	91	11.82	32.08	11.81	33.38	4	W
357	1369	4324.1	6947.6	5	11	2012	16:22	139	11.94	33.42	10.91	33.88	7	W
358	1270	4310.5	7004.0	5	11	2012	18:49	146	12.23	32.39	7.60	33.32	7	V
359	1271	4317.2	7010.1	5	11	2012	21:04	121	11.81	32.66	10.52	33.54	6	V
360	1315	4309.3	7021.6	6	11	2012	0:43	94	11.53	31.76	10.62	33.18	7	V
361	1273	4300.3	7011.6	6	11	2012	2:45	152	11.84	32.42	7.43	33.42	6	V
362	1170	4250.8	7043.7	6	11	2012	6:56	38	11.81	31.88	12.30	32.49	6	W
364	1169	4248.4	7042.1	6	11	2012	10:36	44	11.73	32.13	12.33	32.55	7	W
365	1118	4246.8	7044.1	6	11	2012	12:34	32	10.56	28.91	12.31	32.56	5	V
366	1356	4244.0	7041.6	6	11	2012	15:06	30	10.74	29.52	12.20	32.54	6	B
367	1917	4245.8	7039.8	6	11	2012	16:49	56	11.86	31.68	12.24	32.67	3	W
368	1347	4204.0	7004.0	6	11	2012	23:49	25	11.44	32.30	11.28	32.31	3	V
369	1268	4218.8	7022.2	7	11	2012	2:30	79	11.37	32.23	9.31	32.76	5	V
370	1498	4216.4	7032.6	7	11	2012	4:43	65	11.28	32.36	9.62	32.69	5	W
371	1497	4219.9	7039.1	7	11	2012	6:37	59	11.43	32.25	9.76	32.68	6	V
372	1355	4224.3	7051.1	7	11	2012	9:23	31	11.52	32.13	11.54	32.13	5	V
373	1167	4204.1	7029.4	9	11	2012	15:55	48	11.36	32.19	11.15	32.23	5	W
374	1349	4159.9	7034.1	9	11	2012	19:13	26	10.57	32.03	10.80	32.16	3	W
375	1351	4206.0	7035.5	10	11	2012	0:34	27	10.77	32.31	10.82	32.32	4	V
376	1499	4217.5	7036.8	10	11	2012	3:22	52	11.06	32.30	10.95	32.38	5	V
377	1916	4228.3	7045.6	10	11	2012	7:55	46	10.84	32.21	10.98	32.33	6	V
378	1020	4228.2	7028.9	10	11	2012	10:37	73	11.04	32.21	11.01	32.42	7	V
379	1266	4234.8	7016.8	10	11	2012	13:07	70	11.33	32.95	10.46	32.90	4	B
380	1265	4225.4	7022.9	10	11	2012	15:34	44	11.23	32.57	11.22	32.60	5	V