

CTD_REPORT_2016001HB.pdf
Oceans and Climate Branch CTD Data Report

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DATE: October 4, 2016

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Oceans and Climate Branch CTD Data Report

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

HB 1601
2016 Spring Bottom Trawl Survey
Data Coverage: April 8 – June 7, 2016
Mid Atlantic Bight, Georges Bank, and Gulf of Maine

This report presents a summary of surface and bottom temperature and salinity data collected during the Northeast Fisheries Science Center's 2016 Bottom Trawl Survey aboard the NOAA FSV *Henry B Bigelow*. All data was obtained with the shipboard Seabird Electronics SBE Model 9/11+ CTD and a NMFS SBE19+ Seacat profiling CTD (s/n 4477). Salt water samples were collected for the purpose of calibrating the conductivity cell.

The SBE19+ was deployed on 102 double oblique bongo casts and 9 water sampling casts. The SBE9/11+ was used successfully on 248 stations.

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 [NODCformatted ASCII file](#).

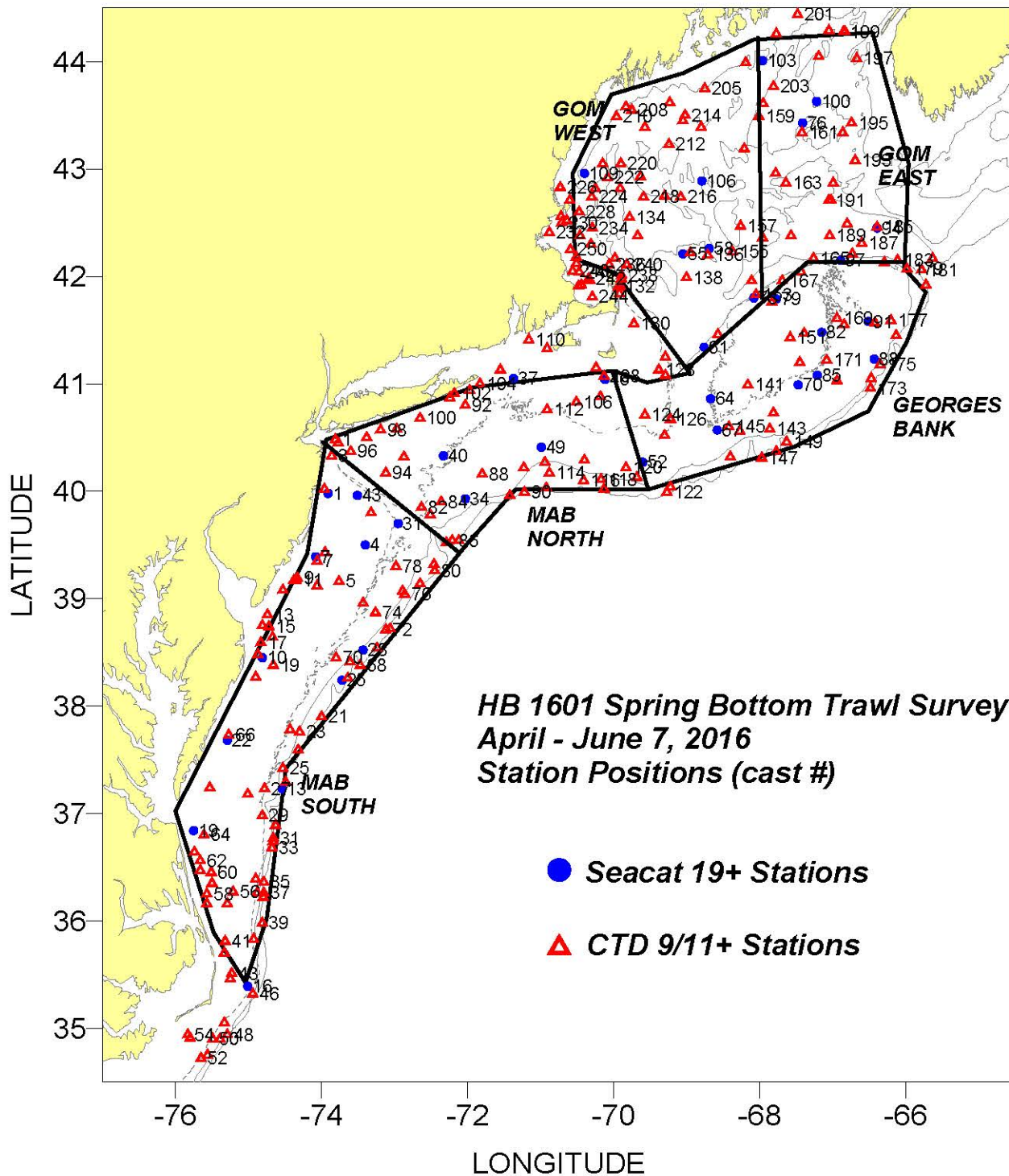
This report may be viewed on the [Oceans and Climate Branch website](#)

choose: **2016 Cruises**

APR_TRAWL_HB1601

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Revised: October 4, 2016



**Areal average surface and bottom temperature/salinity and temperature/salinity anomalies for the
HB1601 Spring Bottom Trawl Survey
April 8 - June 7, 2016**

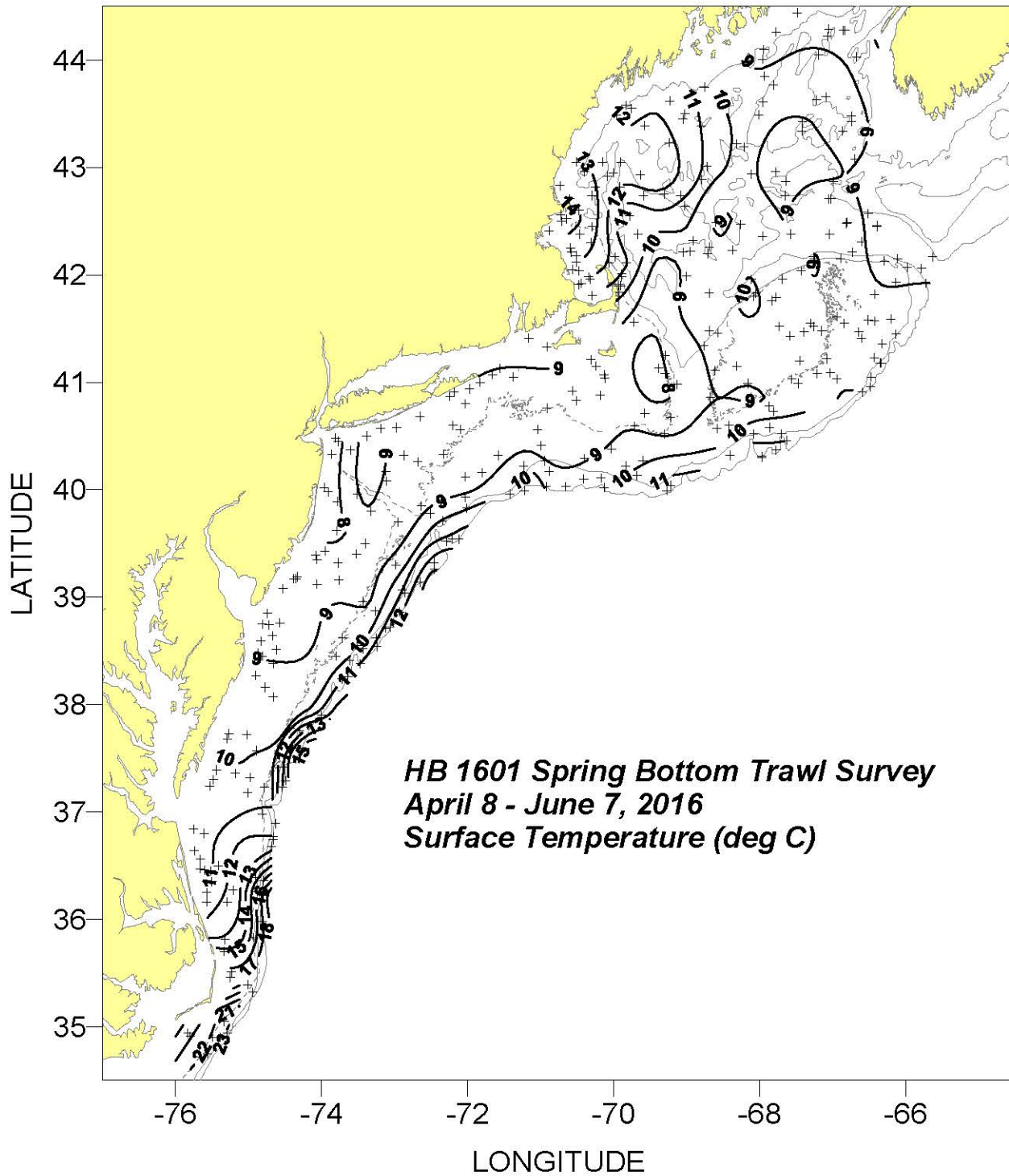
CRUISE	CD	SURFACE						BOTTOM						Purpose
		#obs	T/S	Anomaly	SDV1	SDV2	Flag	#obs	T/S	Anomaly	SDV1	SDV2	Flag	
Western Gulf of Maine														
hb1601	148	56	10.80	1.35	0.15	0.92	0	57	6.70	1.40	0.13	0.63	0	10
hb1601	148	56	32.16	-0.05	0.06	0.31	0	57	33.20	-0.05	0.04	0.29	0	10
Eastern Gulf of Maine														
hb1601	148	36	9.14	1.29	0.16	0.75	0	36	8.67	1.47	0.20	0.72	0	10
hb1601	148	36	32.25	-0.12	0.08	0.37	0	36	34.35	0.19	0.05	0.36	0	10
Georges Bank														
hb1601	142	54	9.30	0.76	0.19	1.06	0	53	9.03	1.51	0.18	1.08	0	10
hb1601	142	54	32.71	-0.21	0.06	0.43	0	53	33.38	0.08	0.06	0.38	0	10
MAB North														
hb1601	126	51	8.76	0.47	0.23	1.06	0	51	9.38	1.98	0.28	1.11	0	10
hb1601	126	51	32.68	0.08	0.10	0.39	0	51	33.40	-0.12	0.10	0.46	0	10
MAB South														
hb1601	106	96	10.42	1.67	0.19	1.58	0	95	10.42	2.59	0.23	1.06	0	10
hb1601	106	96	33.48	0.73	0.11	0.64	0	95	33.80	0.03	0.08	0.44	0	10

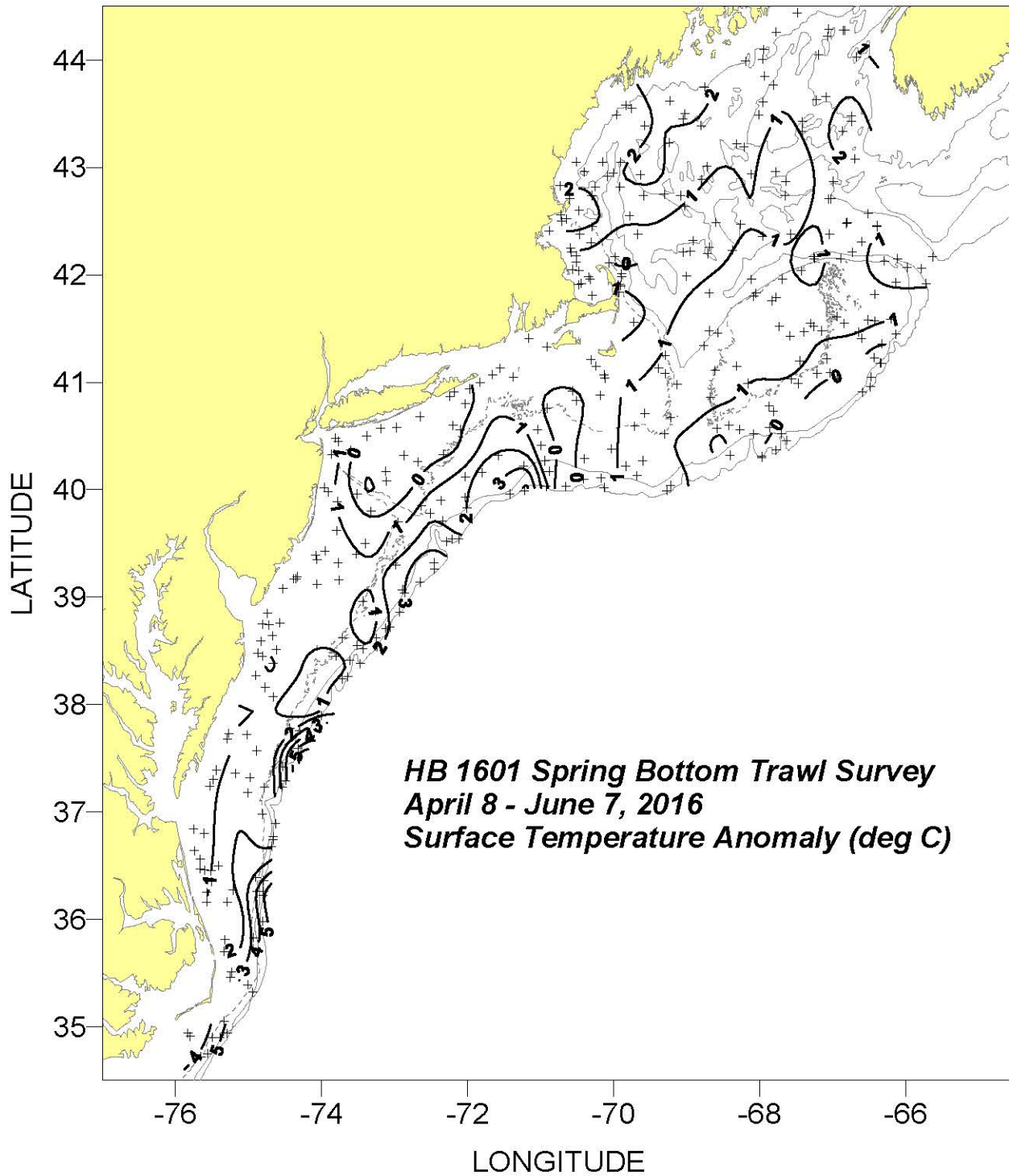
"CRUISE", the code name for a cruise: "CD", the calendar mid-date of all the stations within a region for a cruise:

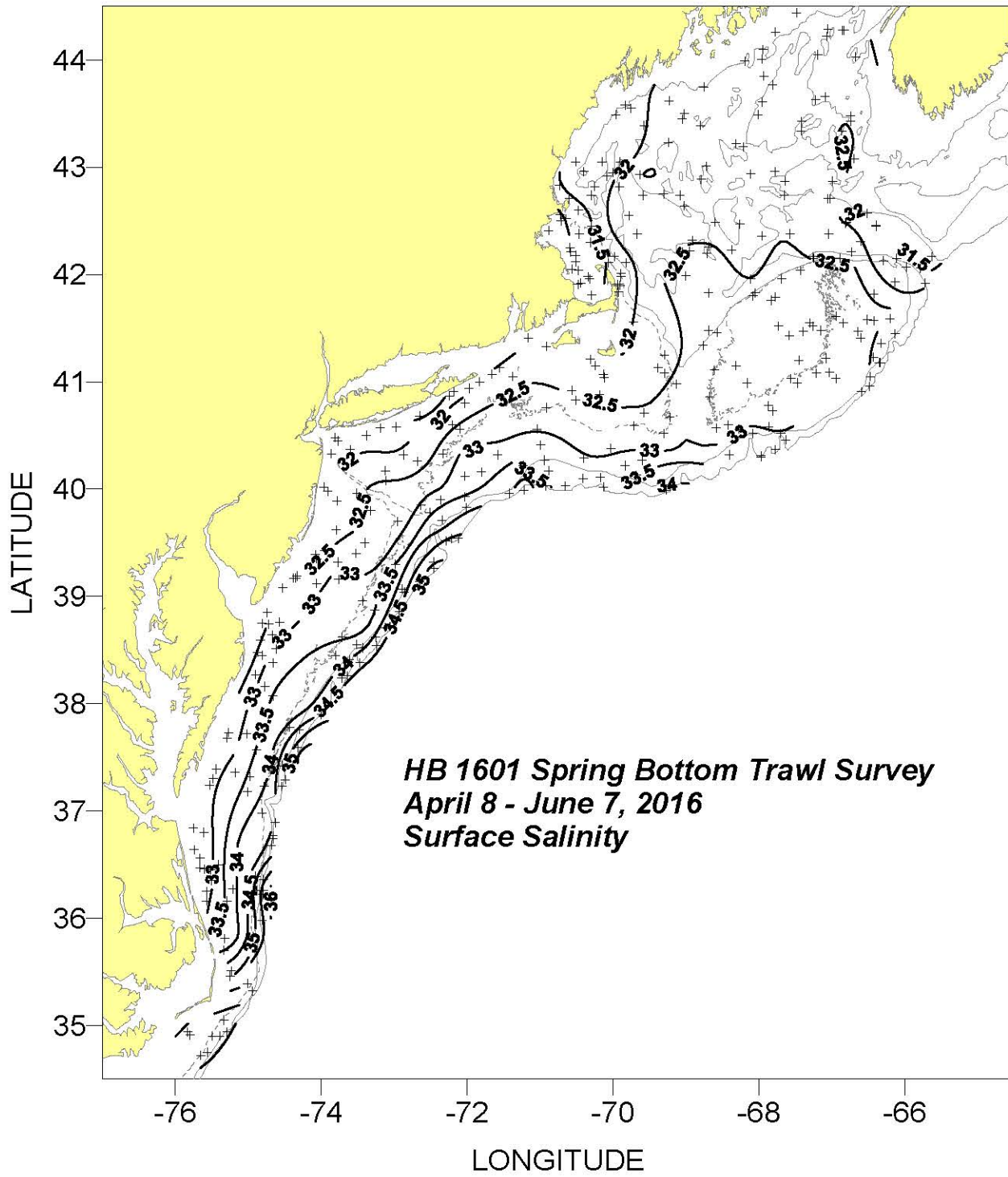
"#obs", the number of observations include in each average: "T/S", the areal average temp/salt: "Anomaly", the areal average temp/salt anomaly:

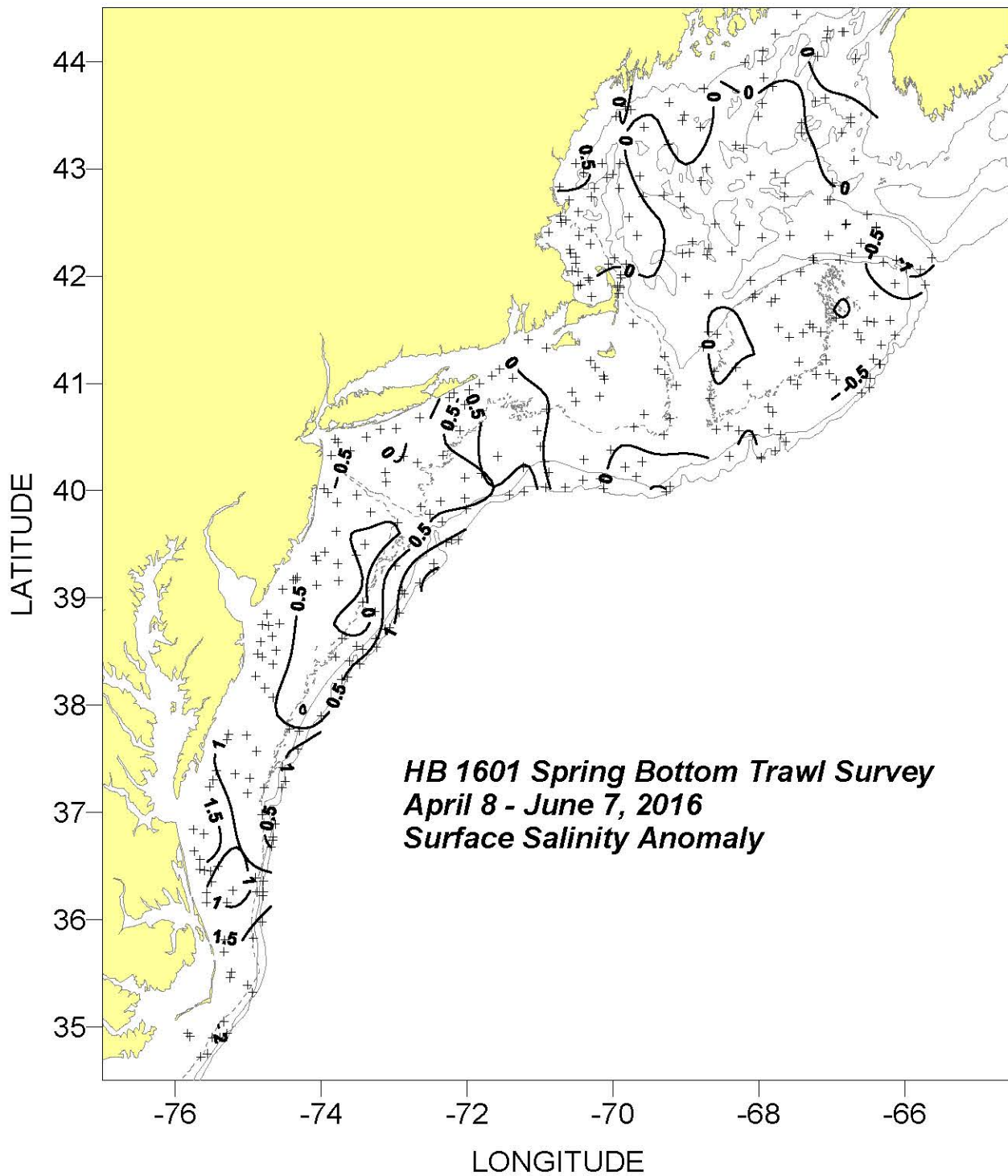
"SDV1", the standard deviation associated with the average temp/salt anomaly: "SDV2", the standard deviation of the individual anomalies from which the average anomaly was derived
"Flag", a value of "1" indicates that a true areal average could not be calculated due to poor station coverage. The areal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

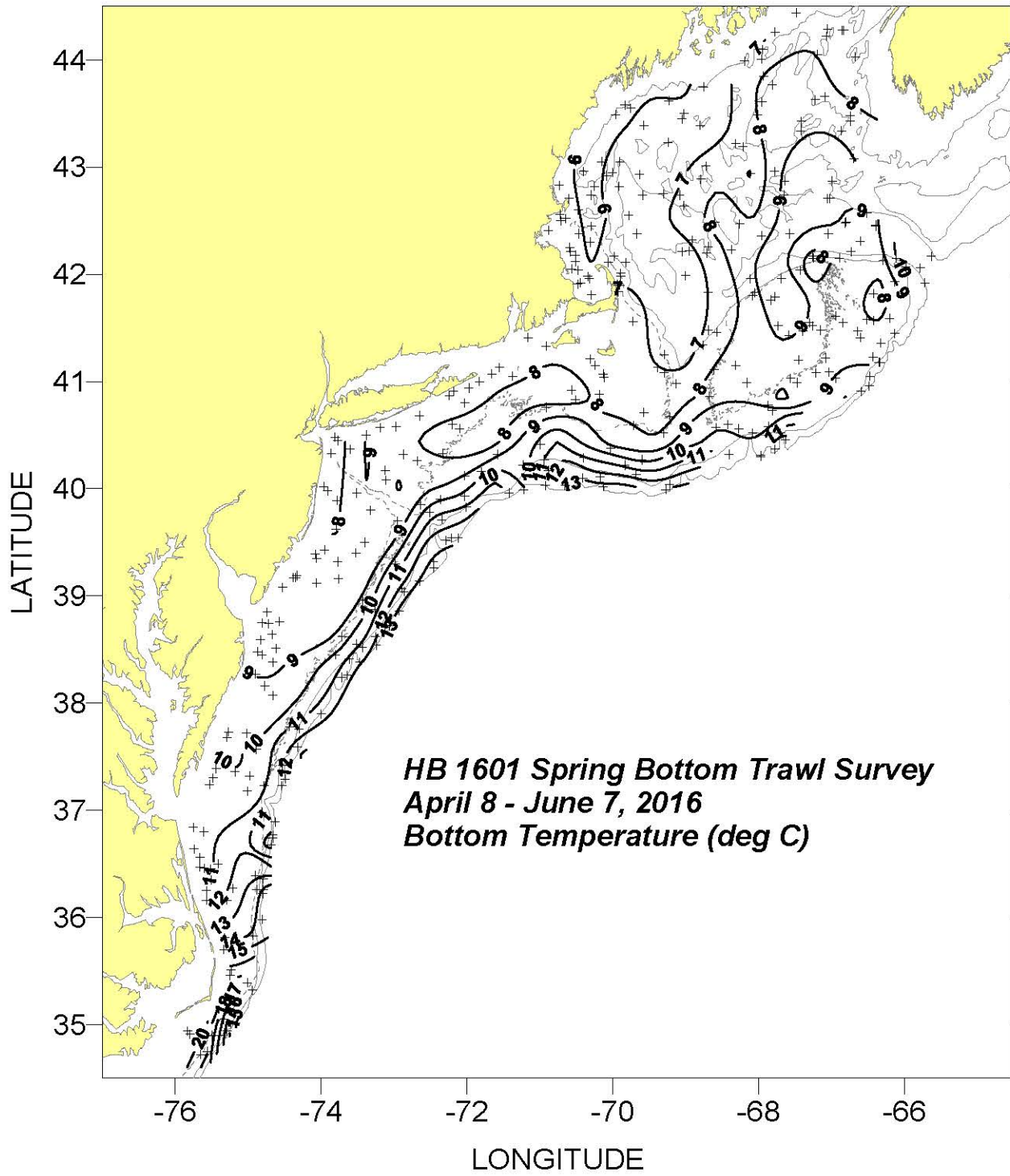
"Purpose", 2 digit code assigned by DMS to identify a unique NEFSC program survey.

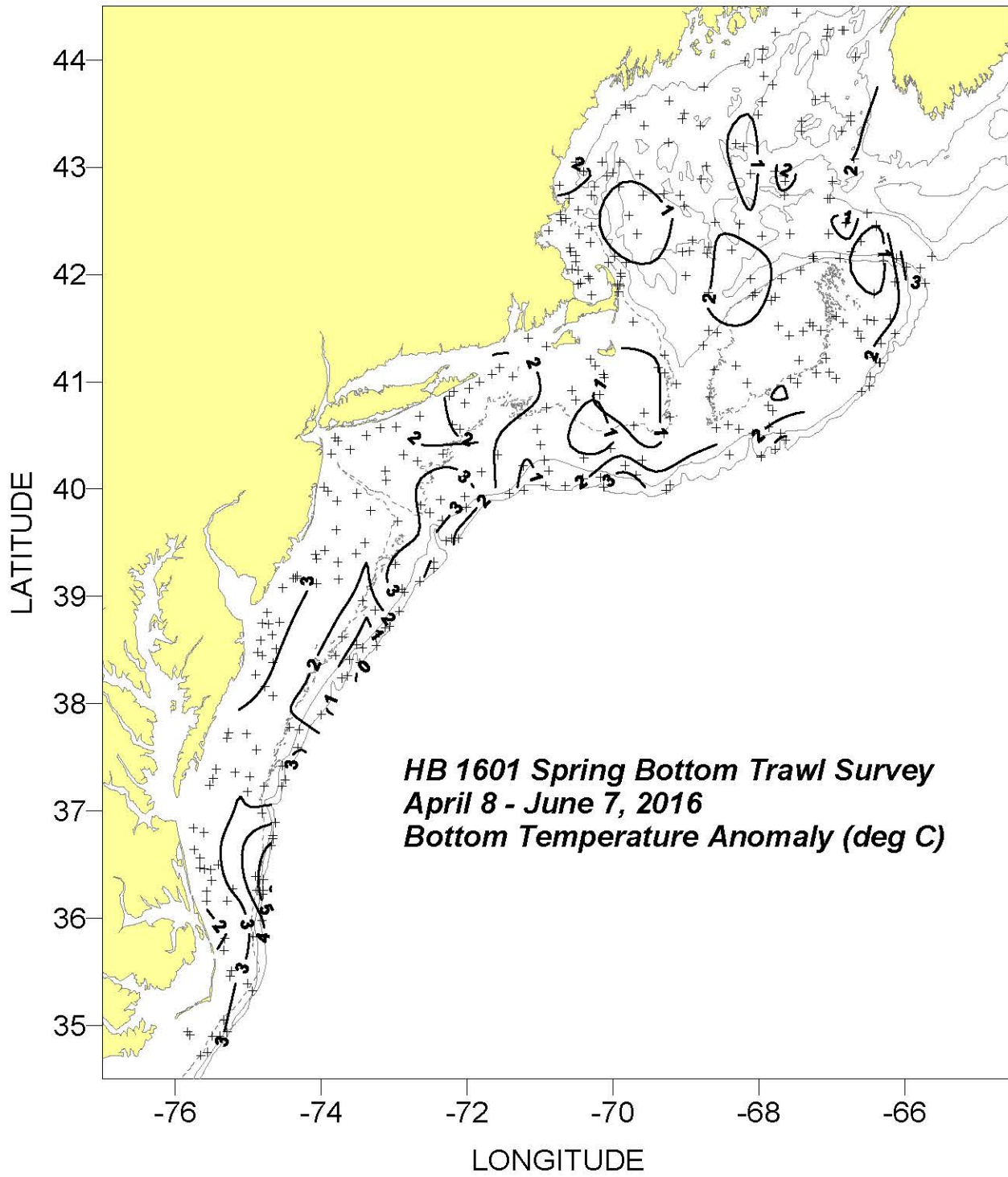


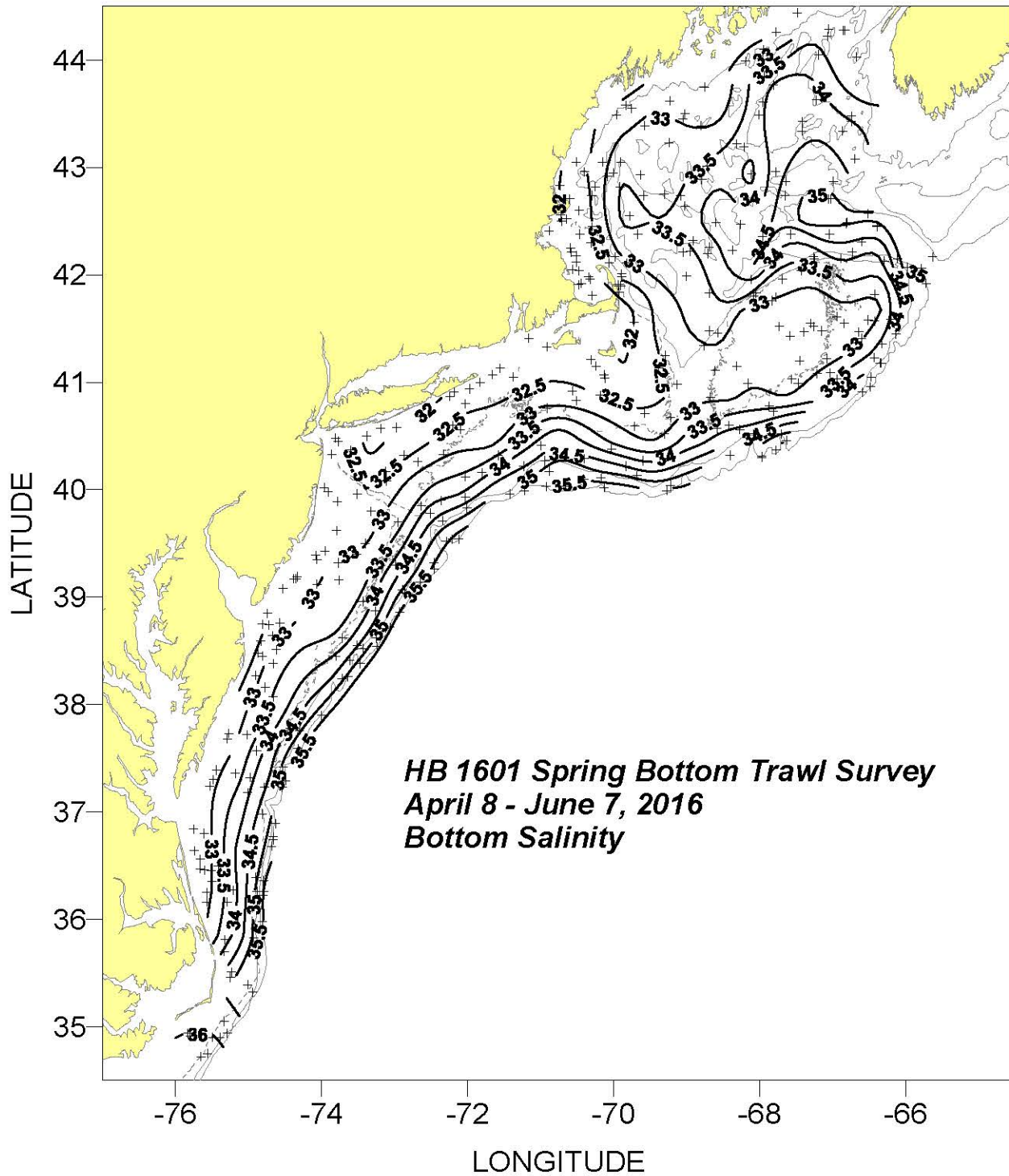


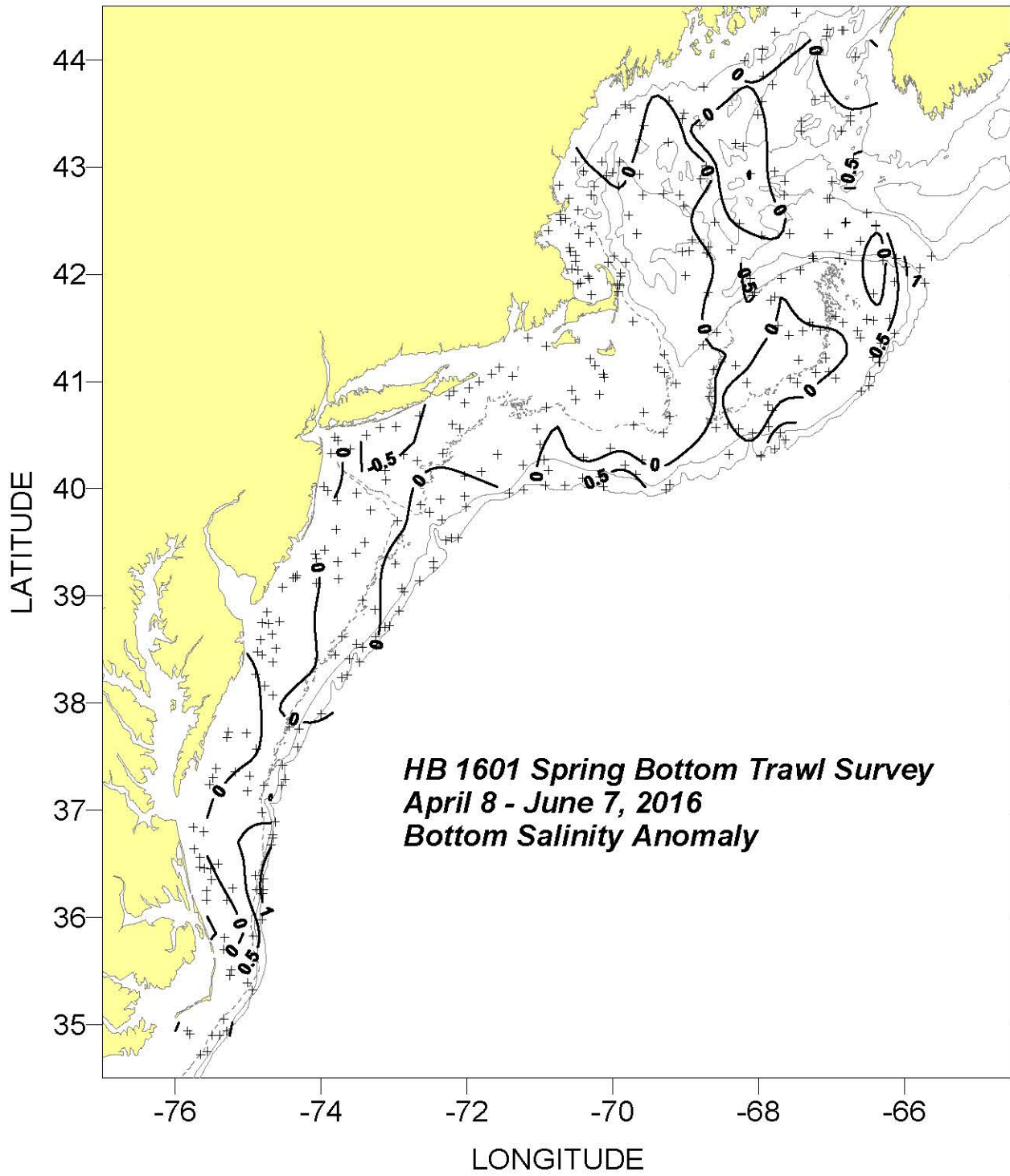












HB1601 Spring Bottom Trawl Survey
April 8 - June 7, 2016

Cast #	Sta #	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	10445	4028.7	7348.6	8	4	2016	16:03	26	7.45	31.75	7.43	32.70	2	V
2	10446	4026.7	7346.3	8	4	2016	18:23	28	7.58	31.68	7.52	32.89	3	V
3	10447	4019.7	7351.8	8	4	2016	20:51	25	7.72	31.45	7.56	32.94	1	V
4	10448	4001.2	7357.7	8	4	2016	23:50	22	7.28	32.49	7.41	32.76	1	W
1	10450	3959.1	7354.5	9	4	2016	1:33	25	7.34	32.34	7.46	32.73	7	B
2	10449	3953.6	7346.7	9	4	2016	3:57	30	7.53	32.21	7.44	32.95	3	W
3	10637	3937.1	7347.4	9	4	2016	6:28	23	7.85	32.24	7.97	32.51	8	B
4	10636	3930.2	7324.1	9	4	2016	9:56	35	7.77	32.73	7.91	32.96	7	B
5	10634	3924.0	7331.0	9	4	2016	11:37	47	7.88	32.72	8.29	33.28	3	B
6	10633	3919.0	7345.9	9	4	2016	14:16	38	8.39	32.94	8.52	33.20	5	B
5	10635	3909.8	7345.8	9	4	2016	16:05	37	8.58	33.17	8.60	33.34	2	V
6	10451	3925.6	7357.0	9	4	2016	18:47	26	8.13	32.47	8.08	32.61	2	V
7	10452	3923.6	7405.0	9	4	2016	20:07	21	8.34	32.00	8.27	32.33	5	B
7	10453	3920.9	7403.6	9	4	2016	21:43	25	8.22	32.29	8.23	32.58	3	V
8	10632	3906.9	7403.6	9	4	2016	23:58	32	8.42	32.82	8.40	33.11	1	V
9	10454	3911.6	7419.6	10	4	2016	2:20	20	8.56	32.40	8.57	32.40	3	W
10	10457	3910.2	7422.8	10	4	2016	3:28	24	8.46	32.54	8.47	32.55	2	V
11	10455	3910.2	7420.8	10	4	2016	5:12	25	8.37	32.79	8.37	32.80	1	V
12	10456	3905.0	7432.0	10	4	2016	6:58	20	8.46	32.54	8.47	32.54	4	V
8	10630	3845.8	7434.0	10	4	2016	9:40	29	8.47	32.72	8.49	32.72	7	B
13	10717	3850.9	7444.2	10	4	2016	12:42	17	8.62	32.21	8.62	32.22	5	V
14	10718	3844.8	7448.3	10	4	2016	14:30	19	8.55	32.37	8.53	32.37	5	V
15	10628	3844.3	7443.4	10	4	2016	15:56	18	8.61	32.61	8.49	32.70	1	V
16	10625	3838.7	7440.5	10	4	2016	17:14	26	8.60	33.11	8.44	33.12	2	V
9	10627	3830.6	7437.2	10	4	2016	18:36	23	9.58	33.30	8.94	33.29	7	B
17	10716	3835.2	7449.8	10	4	2016	20:29	26	9.05	32.18	8.67	32.33	1	V
18	10719	3829.0	7452.4	10	4	2016	21:45	19	9.04	31.93	8.74	32.16	2	V
10	10720	3827.2	7448.7	10	4	2016	23:00	24	9.10	32.54	8.79	32.75	7	B

**HB1601 Spring Bottom Trawl Survey
April 8 - June 7, 2016**

Cast #	Sta #	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
19	10626	3822.9	7439.8	11	4	2016	0:48	33	9.09	33.33	8.85	33.33	1	W
20	10721	3816.3	7454.1	11	4	2016	3:32	21	9.09	32.56	8.89	32.65	5	V
11	10631	3809.6	7446.3	11	4	2016	5:21	30	8.94	33.24	8.96	33.24	6	B
12	10629	3804.3	7439.6	11	4	2016	7:03	42	9.16	33.51	9.19	33.51	6	B
21	10708	3754.0	7400.0	11	4	2016	11:04	244	11.58	34.53	10.99	35.41	2	V
22	10700	3746.6	7425.6	11	4	2016	16:15	64	10.35	34.08	10.17	34.08	3	V
23	10702	3745.6	7418.1	11	4	2016	18:54	93	10.31	34.03	11.68	34.78	2	V
24	10705	3735.3	7419.0	11	4	2016	20:49	116	18.28	36.07	13.36	35.61	1	V
25	10695	3725.1	7431.6	11	4	2016	23:01	95	10.62	34.14	12.67	35.26	1	V
26	10623	3717.5	7429.5	12	4	2016	0:38	239	10.89	34.24	11.01	35.41	1	W
13	10697	3713.9	7432.6	12	4	2016	2:28	134	10.76	34.24	12.75	35.62	4	B
27	10694	3714.1	7446.6	12	4	2016	5:06	60	10.29	34.10	10.30	34.15	6	V
14	10687	3718.9	7458.6	12	4	2016	7:19	43	10.18	33.62	10.00	33.84	7	B
15	10691	3721.3	7510.8	12	4	2016	9:20	31	10.06	32.90	10.09	33.06	7	B
28	10692	3710.7	7500.6	12	4	2016	11:21	38	10.34	33.71	10.11	33.93	5	V
29	10693	3659.1	7448.5	12	4	2016	13:28	59	10.80	34.26	11.50	34.50	1	V
30	10622	3653.5	7437.9	12	4	2016	15:19	228	12.13	34.62	10.79	35.39	1	V
31	10698	3646.1	7439.7	12	4	2016	17:09	166	12.05	34.55	12.15	35.54	9	V
32	10624	3644.7	7439.5	12	4	2016	18:51	226	11.51	34.38	10.31	35.34	4	V
33	10696	3641.1	7440.6	12	4	2016	20:28	305	12.36	34.59	9.37	35.24	5	V
34	10681	3623.2	7454.1	12	4	2016	23:28	42	17.95	35.95	16.27	35.69	2	V
35	10619	3621.6	7447.1	13	4	2016	0:56	118	18.51	36.11	15.22	35.85	3	W
36	10684	3615.4	7452.5	13	4	2016	3:02	79	16.87	35.57	15.12	35.57	5	V
37	10621	3615.7	7447.5	13	4	2016	5:00	121	19.11	36.25	14.68	35.74	4	V
38	10618	3613.2	7448.0	13	4	2016	6:31	115	15.67	35.39	15.07	35.64	6	V
39	10617	3558.9	7448.4	13	4	2016	9:09	152	18.46	36.02	14.82	35.83	6	V
40	10685	3549.8	7455.6	13	4	2016	14:13	73	13.46	34.42	13.83	35.04	7	V
41	10730	3548.7	7519.2	13	4	2016	17:21	35	13.02	33.43	13.03	33.43	4	V

**HB1601 Spring Bottom Trawl Survey
April 8 - June 7, 2016**

Cast #	Sta #	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
42	10734	3541.7	7519.9	13	4	2016	19:07	25	13.62	33.28	13.63	33.28	4	V
43	10735	3530.6	7513.8	13	4	2016	21:31	33	16.92	35.10	16.99	35.13	4	V
44	10733	3527.4	7514.8	13	4	2016	23:16	30	17.10	35.18	17.12	35.17	5	V
16	10805	3523.3	7500.4	14	4	2016	2:41	39	17.26	35.27	17.27	35.26	2	W
46	10747	3519.1	7456.7	14	4	2016	5:14	161	22.41	36.44	16.58	36.13	3	V
47	10808	3503.2	7519.8	14	4	2016	10:23	67	22.11	36.43	16.84	35.06	6	V
48	10748	3456.5	7517.1	14	4	2016	13:41	323	24.64	36.43	11.05	35.41	1	V
49	10745	3454.1	7523.5	14	4	2016	16:42	155	23.43	36.45	17.62	36.28	4	V
50	11939	3453.9	7529.2	14	4	2016	18:31	72	23.06	36.44	20.28	36.38	5	V
51	10744	3444.8	7533.8	14	4	2016	20:39	137	22.07	36.42	17.61	36.31	5	V
52	10806	3442.9	7538.9	14	4	2016	22:26	71	22.02	36.43	21.18	36.40	6	V
53	10802	3454.8	7547.9	15	4	2016	0:48	28	21.37	36.42	21.36	36.42	3	W
54	10801	3456.4	7549.9	15	4	2016	2:22	25	20.66	36.33	20.67	36.33	3	V
55	10680	3609.3	7517.5	15	4	2016	12:59	36	11.87	33.85	11.84	33.86	9	V
56	10682	3615.9	7512.7	15	4	2016	14:36	32	11.28	33.45	11.28	33.46	8	V
57	10728	3609.6	7534.1	15	4	2016	17:35	25	10.75	32.66	10.74	32.66	3	V
58	10731	3614.8	7534.3	15	4	2016	18:51	28	10.89	32.80	10.87	32.82	3	V
59	11944	3620.8	7530.0	15	4	2016	20:23	29	11.04	33.00	11.04	33.01	2	V
60	10679	3627.1	7530.6	15	4	2016	21:46	28	10.93	32.55	10.94	32.84	3	V
17	10690	3630.2	7524.5	15	4	2016	23:01	33	10.83	33.09	10.88	33.18	6	B
18	10732	3627.5	7535.8	16	4	2016	1:18	27	10.84	32.41	10.86	32.42	4	W
61	10729	3628.4	7539.6	16	4	2016	2:32	23	10.85	32.15	10.87	32.18	5	V
62	10459	3633.8	7539.8	16	4	2016	3:56	24	10.71	32.29	10.73	32.33	6	V
63	10460	3638.3	7544.5	16	4	2016	5:40	22	10.65	31.81	10.71	31.99	2	V
64	10686	3648.0	7536.8	16	4	2016	7:29	22	10.71	32.96	10.72	32.97	6	V
19	10458	3650.5	7544.8	16	4	2016	9:43	20	10.66	32.03	10.74	32.09	6	B
65	10725	3714.4	7531.8	17	4	2016	21:55	24	10.24	32.92	10.20	32.91	4	V
20	10726	3718.2	7529.0	17	4	2016	23:02	24	10.15	32.84	10.15	32.85	6	B

HB1601 Spring Bottom Trawl Survey
April 8 - June 7, 2016

Cast #	Sta #	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
21	10727	3723.3	7526.5	18	4	2016	0:20	28	10.01	32.87	10.01	32.90	3	V
22	10722	3740.7	7517.5	18	4	2016	2:52	25	10.16	32.70	10.05	32.77	2	W
66	10723	3743.8	7516.1	18	4	2016	4:00	25	10.07	32.69	10.11	32.74	6	V
23	10689	3743.0	7501.1	18	4	2016	5:50	26	9.60	33.42	9.65	33.43	2	B
24	10688	3734.4	7453.5	18	4	2016	7:40	37	9.57	33.59	9.58	33.59	8	B
25	10704	3814.7	7343.5	18	4	2016	14:42	118	11.72	34.58	12.62	35.15	8	B
67	10707	3815.7	7338.3	18	4	2016	16:21	260	11.49	34.54	13.27	35.52	4	V
68	10709	3822.8	7328.3	18	4	2016	18:54	335	11.43	34.47	11.54	35.46	10	V
69	10706	3824.3	7336.8	18	4	2016	21:34	114	11.95	34.53	12.33	35.07	1	V
70	10699	3827.0	7348.0	18	4	2016	23:17	66	8.52	33.33	9.31	33.69	4	V
26	10701	3837.4	7342.9	19	4	2016	1:11	60	10.49	33.46	8.78	33.47	2	B
27	10703	3833.2	7330.8	19	4	2016	3:14	81	9.79	33.48	11.04	34.42	3	W
28	10642	3831.1	7325.8	19	4	2016	4:32	99	10.70	33.91	11.40	34.66	4	B
71	10714	3832.7	7314.2	19	4	2016	6:26	297	10.39	34.09	10.93	35.40	1	V
29	10711	3837.3	7314.9	19	4	2016	8:17	120	9.52	33.78	12.50	35.13	9	B
72	10712	3842.3	7307.4	19	4	2016	10:13	139	12.44	34.79	13.04	35.40	1	V
73	10713	3843.4	7303.3	19	4	2016	11:54	218	13.53	35.50	13.05	35.59	7	V
74	10640	3851.9	7315.3	19	4	2016	14:28	80	9.16	33.31	10.52	34.31	7	V
75	10639	3857.5	7326.0	19	4	2016	16:26	63	9.07	33.13	8.22	33.28	5	V
30	10715	3851.7	7256.0	19	4	2016	19:53	139	10.72	33.86	13.61	35.57	2	B
76	10710	3902.7	7251.3	19	4	2016	22:21	108	11.83	34.56	13.05	35.33	4	V
77	10638	3904.0	7253.5	19	4	2016	23:43	88	11.44	34.46	12.41	35.04	5	V
78	10641	3918.2	7258.6	20	4	2016	1:53	65	8.82	33.28	10.22	34.11	5	W
79	10770	3908.4	7239.2	20	4	2016	4:20	209	11.71	34.64	13.30	35.58	3	V
80	10766	3915.4	7226.8	20	4	2016	6:31	170	13.98	35.59	13.56	35.55	5	V
81	10768	3919.4	7227.7	20	4	2016	8:12	139	13.51	35.45	13.45	35.52	4	V
31	10761	3941.9	7256.8	20	4	2016	12:52	66	8.17	32.65	8.22	33.27	7	B
82	10760	3950.9	7237.8	20	4	2016	15:22	60	7.98	32.73	8.79	33.56	7	V

HB1601 Spring Bottom Trawl Survey
April 8 - June 7, 2016

Cast #	Sta #	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
83	10759	3946.7	7230.7	20	4	2016	16:48	68	8.78	33.24	10.48	34.21	5	V
84	10758	3953.8	7221.5	20	4	2016	18:42	80	8.69	33.15	10.48	34.21	3	V
32	10763	3942.5	7220.7	20	4	2016	20:29	102	9.36	33.45	12.43	34.98	2	B
85	10771	3931.4	7217.2	21	4	2016	0:23	192	11.80	34.70	13.08	35.61	2	W
86	10765	3932.2	7212.8	21	4	2016	1:02	152	12.51	34.98	13.39	35.59	3	V
87	10769	3932.7	7207.2	21	4	2016	2:25	233	11.91	34.73	12.11	35.54	1	V
33	10767	3950.0	7200.3	21	4	2016	5:44	120	9.18	33.54	13.63	35.55	6	B
34	10762	3956.0	7201.9	21	4	2016	7:35	90	8.95	33.47	10.90	34.38	6	B
35	10764	4007.3	7201.8	21	4	2016	9:32	70	8.40	33.10	8.07	33.23	8	B
88	10781	4009.5	7147.8	21	4	2016	11:25	83	8.55	33.27	8.64	33.52	5	V
36	10784	4019.3	7134.9	21	4	2016	13:34	84	8.28	33.14	8.09	33.24	6	B
89	10790	3957.5	7125.2	21	4	2016	16:49	190	10.26	33.98	13.28	35.58	2	V
90	10791	3959.6	7113.3	21	4	2016	18:45	294	11.47	34.40	9.58	35.26	4	V
91	10780	4013.1	7113.7	21	4	2016	21:38	102	8.67	33.32	9.84	34.08	1	V
37	10773	4103.1	7122.0	6	5	2016	20:09	45	8.44	32.52	7.87	32.46	4	B
92	10772	4048.0	7201.9	7	5	2016	0:37	42	8.49	32.37	8.42	32.41	5	V
38	10778	4033.4	7205.9	7	5	2016	3:03	55	8.25	32.87	7.24	32.77	7	B
39	10775	4035.9	7211.8	7	5	2016	4:45	49	8.20	32.80	8.09	32.79	3	B
40	10757	4019.6	7220.0	7	5	2016	7:17	57	8.14	32.64	7.35	32.81	5	W
41	10753	4015.4	7240.6	7	5	2016	9:56	55	8.38	32.74	7.67	32.88	4	B
93	10755	4019.4	7252.4	7	5	2016	11:41	49	8.42	32.21	8.26	32.59	3	V
94	10754	4010.2	7307.2	7	5	2016	13:44	45	8.39	32.66	7.86	32.62	3	V
42	10751	4004.8	7306.9	7	5	2016	15:01	46	8.52	32.62	7.96	32.77	5	B
95	10750	3947.8	7319.3	7	5	2016	17:39	42	9.56	32.66	9.24	32.67	7	V
43	10752	3957.4	7330.8	7	5	2016	19:41	39	9.60	32.46	9.14	32.49	6	B
96	10444	4022.2	7335.9	7	5	2016	22:34	25	10.04	31.76	9.47	31.99	2	V
97	10443	4030.1	7322.9	8	5	2016	0:20	25	9.49	31.76	9.06	31.80	6	V
98	10441	4034.4	7311.2	8	5	2016	1:59	24	9.22	31.67	8.95	31.65	6	V

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Cast #	Sta #	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
99	10440	4034.7	7258.2	8	5	2016	3:38	25	8.79	31.41	8.66	31.61	2	W
100	10756	4041.0	7239.0	8	5	2016	5:51	33	8.86	31.19	8.50	31.73	2	W
101	10437	4052.1	7214.7	8	5	2016	11:54	28	8.87	31.23	8.58	32.21	2	V
102	10438	4054.4	7210.6	8	5	2016	12:56	23	8.89	31.21	8.59	32.14	2	W
103	10645	4056.2	7158.4	8	5	2016	14:27	30	8.81	31.83	8.65	32.14	1	V
104	10644	4100.2	7149.9	8	5	2016	15:53	28	8.84	31.49	8.76	31.86	6	V
44	10776	4104.1	7139.3	8	5	2016	18:03	38	8.63	32.18	8.23	32.33	6	B
105	10739	4107.5	7132.9	8	5	2016	19:26	25	8.93	32.11	8.66	32.19	6	V
45	10792	4055.2	7033.9	9	5	2016	2:11	51	7.93	32.52	7.77	32.56	4	B
106	10796	4050.0	7030.3	9	5	2016	3:31	56	7.81	32.57	7.73	32.71	3	V
107	10795	4052.9	7010.9	9	5	2016	5:47	33	8.14	32.36	8.07	32.49	3	W
46	10742	4102.5	7007.3	9	5	2016	7:42	23	8.25	32.09	8.28	32.10	6	B
108	10741	4104.3	7008.0	9	5	2016	8:51	24	8.26	32.01	8.27	32.02	2	V
109	10740	4108.8	7014.4	9	5	2016	10:06	27	8.27	31.94	8.28	31.94	3	V
47	10793	4112.7	7018.9	9	5	2016	11:12	28	8.37	31.92	8.41	31.92	3	B
110	10737	4124.3	7109.3	9	5	2016	18:49	20	10.09	31.87	9.43	32.02	4	V
111	10774	4119.9	7054.9	9	5	2016	21:54	34	9.54	32.06	8.52	32.25	1	V
112	10779	4045.6	7054.6	10	5	2016	2:01	60	8.17	32.69	6.92	32.73	4	V
48	10783	4033.8	7102.6	10	5	2016	4:05	74	8.64	32.91	8.34	33.40	2	B
49	10782	4024.6	7059.7	10	5	2016	5:50	85	9.33	33.35	12.21	35.08	4	B
113	10787	4016.2	7056.1	10	5	2016	7:46	117	8.58	33.03	13.22	35.44	3	V
114	10785	4010.2	7053.0	10	5	2016	9:39	134	10.06	33.78	12.66	35.56	1	V
115	10789	4002.1	7055.0	10	5	2016	11:41	224	9.02	33.23	12.36	35.56	1	W
50	10788	4002.0	7039.2	10	5	2016	13:50	172	8.98	33.16	13.52	35.63	6	B
116	10477	4006.2	7024.5	10	5	2016	16:06	125	8.79	33.02	13.05	35.62	6	V
117	10480	4001.1	7007.6	10	5	2016	18:42	174	10.73	33.64	13.05	35.60	1	V
118	10479	4006.5	7010.2	10	5	2016	22:09	143	9.96	33.31	13.28	35.62	5	V
119	10473	4017.4	7023.8	11	5	2016	0:28	96	8.90	32.97	11.17	34.72	6	V

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Cast #	Sta #	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
51	10474	4022.5	7001.5	11	5	2016	3:09	81	8.95	32.93	7.86	33.23	6	B
120	10469	4013.1	6950.0	11	5	2016	5:13	91	9.51	33.13	11.99	35.03	4	W
121	10470	4007.8	6940.7	11	5	2016	6:47	98	9.44	33.14	12.37	35.14	3	V
122	10482	3959.3	6916.1	11	5	2016	11:42	187	12.26	34.63	13.23	35.62	3	V
123	10476	4002.6	6913.5	11	5	2016	15:03	139	11.54	34.08	13.56	35.65	2	V
52	10472	4016.1	6936.1	11	5	2016	18:12	78	10.38	32.98	8.57	33.51	5	B
53	10471	4035.3	6942.8	11	5	2016	20:54	62	9.38	32.75	7.60	32.74	7	B
124	10794	4042.8	6934.2	11	5	2016	23:03	46	8.82	32.53	7.81	32.53	8	V
125	11858	4031.0	6917.8	12	5	2016	1:41	67	8.20	32.57	7.63	32.73	8	V
126	10467	4040.0	6913.3	12	5	2016	4:11	59	8.40	32.60	7.47	32.61	4	W
54	10475	4059.0	6907.8	12	5	2016	6:58	70	7.34	32.64	7.23	32.63	2	B
127	10555	4104.7	6917.1	12	5	2016	9:38	57	7.25	32.48	7.23	32.52	6	V
128	10557	4107.9	6922.7	12	5	2016	11:35	46	7.13	32.46	7.12	32.46	9	V
129	10545	4115.1	6917.2	12	5	2016	15:16	74	8.62	32.22	6.62	32.71	1	V
130	10556	4133.8	6943.2	12	5	2016	18:41	29	7.50	31.96	7.25	31.98	8	V
131	10647	4150.4	6955.1	12	5	2016	21:35	22	10.31	31.76	7.98	31.78	7	V
132	10648	4154.4	6955.8	12	5	2016	23:19	26	9.03	31.73	8.10	31.77	6	V
133	10558	4154.0	6954.2	13	5	2016	1:13	36	9.60	31.76	7.84	31.80	5	V
134	10572	4232.9	6946.9	17	5	2016	21:40	267	9.38	32.69	6.57	33.81	2	V
135	10571	4223.0	6940.3	18	5	2016	0:19	252	8.53	32.47	6.56	33.76	3	V
55	10548	4212.8	6903.0	18	5	2016	4:36	169	8.90	32.52	6.53	33.27	4	B
56	10575	4219.1	6854.9	18	5	2016	6:45	214	8.46	32.42	7.28	33.71	4	B
57	10570	4229.6	6836.2	18	5	2016	10:54	196	8.44	32.32	8.45	34.31	1	B
58	10551	4215.4	6841.7	18	5	2016	13:47	203	8.81	32.50	6.76	33.39	2	B
136	10550	4211.8	6842.5	18	5	2016	15:37	204	8.86	32.59	6.99	33.49	4	V
137	10552	4213.0	6857.1	18	5	2016	18:10	177	8.88	32.48	6.52	33.28	2	V
138	10554	4159.7	6900.2	18	5	2016	20:33	140	9.26	32.73	6.45	33.19	4	V
59	10547	4149.8	6841.5	18	5	2016	23:37	167	9.57	32.80	7.47	33.76	8	B

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Cast #	Sta #	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
60	10553	4128.8	6841.7	19	5	2016	3:03	126	9.69	32.83	6.41	33.06	6	W
61	10543	4120.5	6845.4	19	5	2016	4:48	105	9.49	32.66	6.48	32.95	5	B
139	10546	4127.7	6834.1	19	5	2016	6:51	94	9.57	32.78	6.67	32.90	1	V
62	10518	4108.9	6818.5	19	5	2016	12:22	41	9.10	32.90	9.11	32.90	2	B
63	10529	4106.4	6836.4	19	5	2016	14:48	58	8.96	32.91	8.84	32.91	7	B
64	10523	4051.5	6840.1	19	5	2016	18:24	61	9.15	32.90	8.79	32.90	5	B
141	10519	4059.4	6809.6	19	5	2016	21:59	41	9.09	32.85	9.08	32.86	2	V
65	10489	4047.0	6752.1	20	5	2016	0:39	69	9.15	32.46	7.42	33.01	4	B
142	11669	4044.0	6748.5	20	5	2016	2:18	72	8.79	32.56	7.56	33.17	3	W
143	10484	4034.5	6751.7	20	5	2016	4:15	91	9.23	32.48	12.53	34.99	1	V
66	10486	4031.1	6804.8	20	5	2016	5:53	110	9.11	32.43	10.13	34.16	8	B
144	10488	4033.3	6816.3	20	5	2016	7:53	94	9.09	32.74	9.98	34.12	5	V
145	10483	4035.9	6825.3	20	5	2016	9:22	79	8.89	32.72	8.49	33.43	8	V
67	10490	4034.2	6834.6	20	5	2016	11:30	71	9.20	32.74	8.35	33.29	6	B
146	10494	4019.4	6823.8	20	5	2016	14:22	130	10.66	33.17	13.42	35.64	2	V
68	10498	4017.8	6758.4	20	5	2016	16:57	345	16.97	35.48	12.87	35.62	138	B
147	10498	4018.4	6758.4	20	5	2016	17:29	280	15.68	35.06	8.05	35.16	2	V
148	10493	4022.2	6746.3	20	5	2016	20:06	164	12.21	33.61	11.91	35.50	2	V
69	10499	4031.0	6741.8	20	5	2016	22:16	146	9.64	32.55	12.83	35.26	8	B
149	10496	4027.3	6737.6	21	5	2016	0:14	145	10.92	33.14	12.48	35.48	2	W
70	10492	4059.6	6728.3	21	5	2016	3:59	70	9.31	32.62	7.64	32.64	7	B
71	10485	4101.6	6733.6	21	5	2016	6:19	63	9.73	32.58	7.64	32.67	8	B
150	10526	4111.9	6727.1	21	5	2016	9:14	49	9.12	32.84	9.13	32.84	10	V
151	11746	4125.7	6735.0	21	5	2016	12:30	40	9.59	32.90	9.57	32.90	7	V
72	10525	4131.5	6743.6	21	5	2016	14:39	40	9.77	32.90	9.69	32.90	6	B
152	10532	4145.3	6749.7	21	5	2016	17:16	34	9.63	32.84	9.57	32.85	1	V
73	10527	4147.8	6804.5	21	5	2016	19:47	52	10.30	32.75	8.32	32.86	5	B
153	10536	4149.5	6802.9	21	5	2016	20:54	64	9.22	32.79	7.37	32.94	1	V

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154	10537	4157.5	6806.3	21	5	2016	22:41	204	9.95	32.34	9.25	34.94	5	V
155	10549	4213.8	6822.3	22	5	2016	1:34	196	10.37	32.44	8.14	34.15	4	W
156	10580	4221.5	6757.4	22	5	2016	4:32	180	9.26	32.29	8.45	34.16	6	V
157	10579	4228.4	6815.5	22	5	2016	7:00	189	9.72	32.39	7.95	34.00	5	V
74	10605	4256.3	6806.3	22	5	2016	11:34	176	9.10	32.26	6.92	33.35	8	B
158	10603	4311.5	6812.7	22	5	2016	14:34	201	9.87	32.24	6.96	33.40	7	V
75	10610	4313.0	6818.5	22	5	2016	16:26	196	9.74	32.19	7.03	33.46	3	B
159	10611	4329.5	6800.8	22	5	2016	19:46	220	9.16	32.01	8.60	34.26	5	V
160	10604	4336.9	6756.8	22	5	2016	21:48	222	9.13	32.21	8.64	34.28	4	V
76	10602	4325.7	6724.3	23	5	2016	1:47	186	8.45	32.29	8.67	34.24	1	B
161	10601	4320.1	6725.5	23	5	2016	4:15	196	8.33	32.20	8.72	34.27	5	V
162	10612	4257.5	6747.0	23	5	2016	8:44	184	8.63	32.18	8.18	34.02	6	V
163	10606	4252.2	6738.7	23	5	2016	11:17	222	8.42	32.29	9.59	34.82	6	V
77	10582	4244.2	6738.8	23	5	2016	13:37	187	8.71	32.41	9.04	34.52	8	B
164	10577	4223.0	6734.2	23	5	2016	17:04	281	9.12	32.34	9.61	35.12	1	W
165	10540	4210.0	6715.8	23	5	2016	20:57	168	8.70	32.41	9.01	34.65	3	V
78	10533	4209.2	6714.9	23	5	2016	22:30	123	8.85	32.42	7.23	33.49	6	B
166	10528	4202.7	6725.8	24	5	2016	1:09	52	8.89	32.75	8.35	32.86	3	V
167	10531	4157.3	6741.2	24	5	2016	3:33	39	9.76	32.86	9.74	32.86	1	V
79	10530	4147.7	6746.1	24	5	2016	5:37	34	9.65	32.80	9.61	32.80	8	B
80	10524	4133.0	6717.8	24	5	2016	9:51	49	9.38	32.84	9.38	32.84	7	B
168	10522	4128.1	6723.1	24	5	2016	12:30	42	9.32	32.86	9.30	32.86	8	V
81	10520	4131.2	6715.6	24	5	2016	14:16	51	9.43	32.84	9.02	32.84	6	B
82	10521	4128.7	6709.0	24	5	2016	15:38	56	9.06	32.76	8.77	32.77	5	B
169	10500	4136.3	6656.6	24	5	2016	18:20	63	9.30	32.82	8.74	32.84	5	V
170	10512	4132.8	6650.1	24	5	2016	20:18	70	9.13	32.83	8.36	32.84	5	V
83	10504	4128.4	6638.5	24	5	2016	22:20	80	8.74	32.84	8.00	32.84	5	B
84	10513	4124.7	6636.0	25	5	2016	0:03	88	9.47	32.83	7.86	32.87	2	B

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171	10503	4113.0	6704.6	25	5	2016	3:43	65	9.09	32.72	8.43	32.75	6	V
85	10487	4104.7	6712.9	25	5	2016	5:38	64	8.87	32.68	8.06	32.69	8	B
86	10507	4105.1	6702.0	25	5	2016	7:10	68	9.17	32.72	7.75	32.73	9	B
172	10508	4102.0	6656.3	25	5	2016	8:47	71	9.31	32.68	7.41	32.81	5	V
87	10517	4054.5	6635.1	25	5	2016	11:59	179	10.56	32.53	12.20	35.51	7	B
173	10514	4057.4	6628.9	25	5	2016	13:51	281	10.77	32.82	7.90	35.14	3	V
174	10812	4103.1	6628.2	25	5	2016	19:45	119	9.66	32.46	13.64	35.57	3	W
88	10505	4113.6	6625.6	25	5	2016	21:59	92	9.02	32.50	8.00	33.32	7	B
175	10811	4110.6	6620.9	25	5	2016	23:37	117	9.44	32.48	9.93	34.27	3	V
89	10810	4110.8	6619.6	26	5	2016	1:02	137	9.63	32.49	12.24	35.14	4	B
90	10501	4121.3	6619.1	26	5	2016	3:01	98	9.25	32.30	8.14	33.67	4	B
176	10809	4127.1	6607.8	26	5	2016	4:55	123	9.27	32.37	10.40	34.86	1	V
177	10502	4135.1	6612.3	26	5	2016	6:42	95	9.96	32.39	8.19	33.44	3	V
178	10511	4134.1	6625.5	26	5	2016	8:29	88	9.98	32.45	7.59	32.84	8	V
91	10510	4134.5	6630.8	26	5	2016	9:53	81	9.33	32.67	7.90	32.78	8	B
92	10509	4149.3	6625.3	26	5	2016	12:12	82	8.55	32.84	8.08	32.88	7	B
93	10506	4155.7	6607.5	26	5	2016	14:27	94	7.37	31.46	7.11	33.23	7	B
179	10515	4204.3	6558.6	26	5	2016	16:20	186	8.14	30.80	11.78	35.45	6	W
180	10516	4155.2	6543.2	26	5	2016	18:43	240	10.40	32.98	7.45	35.13	1	V
181	10583	4203.7	6546.9	26	5	2016	20:35	261	10.68	33.18	8.30	35.20	1	V
182	10585	4210.1	6537.6	26	5	2016	22:33	224	8.06	30.95	9.04	35.21	2	V
183	10538	4209.1	6606.7	27	5	2016	1:33	218	8.09	31.08	8.70	35.11	6	W
184	10535	4208.0	6617.1	27	5	2016	3:55	137	8.73	31.57	8.07	33.77	3	V
94	10584	4226.7	6623.1	27	5	2016	6:37	255	9.05	31.86	8.42	35.11	7	B
185	10584	4227.5	6623.5	27	5	2016	7:13	253	9.01	31.86	8.50	35.11	4	V
95	10586	4234.3	6630.5	27	5	2016	9:39	200	8.78	31.79	10.26	35.12	8	B
96	10588	4229.0	6648.7	27	5	2016	12:35	306	8.94	31.89	8.73	35.13	1	B
186	10588	4229.3	6647.7	27	5	2016	13:12	298	9.17	31.89	8.83	35.14	5	V

HB1601 Spring Bottom Trawl Survey
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Cast #	Sta #	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
187	10587	4218.8	6635.9	27	5	2016	15:53	285	9.03	31.94	8.87	35.15	1	V
188	10539	4212.7	6643.9	27	5	2016	18:55	220	10.11	32.32	10.02	35.15	1	V
97	10534	4208.8	6653.5	27	5	2016	22:33	99	9.41	32.81	7.78	33.61	5	B
189	10589	4223.0	6702.2	28	5	2016	1:05	336	10.35	32.23	8.53	35.13	1	W
190	10581	4242.6	6701.1	28	5	2016	4:21	221	9.06	32.40	9.90	35.17	1	V
191	10578	4242.9	6702.8	28	5	2016	6:08	216	9.20	32.38	9.80	35.17	4	V
192	10609	4252.4	6659.7	28	5	2016	8:25	205	9.20	32.36	10.19	35.00	1	V
193	11855	4304.8	6641.6	28	5	2016	13:30	113	8.83	32.84	8.33	33.80	7	V
194	10591	4320.3	6651.3	28	5	2016	16:21	190	9.90	32.50	9.08	34.45	5	V
195	11617	4325.8	6644.4	28	5	2016	18:45	160	9.32	32.55	8.17	33.76	5	V
98	10594	4328.9	6644.4	28	5	2016	20:30	157	9.95	32.58	8.29	33.88	1	B
99	10595	4339.5	6705.4	29	5	2016	0:10	140	9.97	32.27	7.91	33.65	4	W
100	10593	4337.5	6713.3	29	5	2016	2:24	172	9.68	32.37	8.75	34.22	8	B
196	10590	4402.9	6711.1	29	5	2016	5:41	152	9.13	32.43	8.34	34.01	5	V
197	10592	4401.6	6640.4	29	5	2016	10:18	102	7.82	31.85	7.06	32.71	6	V
198	10598	4416.9	6649.7	29	5	2016	12:54	187	8.80	32.39	7.66	33.59	8	V
199	10597	4416.7	6650.8	29	5	2016	14:34	185	9.01	32.39	7.63	33.56	5	V
101	10599	4413.0	6704.0	29	5	2016	17:24	136	9.14	32.39	7.27	33.25	5	B
200	10600	4417.2	6703.2	29	5	2016	19:23	134	8.95	32.39	7.47	33.36	5	V
201	11609	4426.3	6728.9	29	5	2016	22:18	107	7.82	32.17	7.10	32.20	4	V
202	10674	4415.3	6746.2	30	5	2016	0:54	92	7.83	32.19	7.03	32.43	5	W
102	10677	4406.2	6756.2	30	5	2016	3:04	92	9.45	32.30	7.11	32.80	7	B
103	10672	4400.9	6757.4	30	5	2016	5:39	130	9.62	32.37	7.24	33.27	7	B
104	10607	4351.0	6755.8	30	5	2016	8:29	172	10.14	32.32	8.41	34.13	6	B
203	10608	4346.5	6748.9	30	5	2016	10:58	222	10.35	32.15	8.80	34.29	4	V
204	10673	4359.6	6811.7	30	5	2016	14:25	100	8.29	32.26	6.75	32.51	5	V
205	10676	4344.8	6844.8	30	5	2016	18:31	89	10.66	31.91	6.17	32.44	7	V
206	10671	4337.2	6913.9	31	5	2016	4:33	149	11.36	32.24	6.00	32.90	4	V

**HB1601 Spring Bottom Trawl Survey
April 8 - June 7, 2016**

Cast #	Sta #	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
208	10670	4332.8	6945.0	31	5	2016	12:30	99	11.13	31.93	5.82	32.57	8	V
209	10615	4334.9	6949.7	31	5	2016	15:02	101	11.55	31.38	5.61	32.48	8	V
210	10613	4329.7	6957.8	31	5	2016	16:56	104	12.25	31.67	5.56	32.53	7	V
211	10669	4323.3	6934.0	31	5	2016	19:41	175	12.86	31.94	6.42	33.30	3	V
212	10661	4313.7	6914.5	31	5	2016	22:39	178	11.68	32.33	6.39	33.17	3	W
213	10665	4326.9	6902.9	1	6	2016	1:06	162	11.64	32.38	6.28	33.08	4	V
214	10668	4330.0	6901.2	1	6	2016	2:54	138	11.63	32.36	5.98	32.86	3	W
215	10666	4323.1	6848.2	1	6	2016	5:20	100	11.02	32.13	5.94	32.67	5	V
105	10660	4300.3	6843.0	1	6	2016	8:53	172	10.75	32.25	7.77	33.86	8	B
106	10662	4253.3	6847.1	1	6	2016	11:37	194	10.68	32.26	8.12	34.11	6	B
107	10659	4238.6	6900.9	1	6	2016	14:20	191	11.38	32.27	7.56	33.82	7	B
216	10663	4244.4	6904.5	1	6	2016	16:18	158	12.00	32.22	6.40	33.18	3	V
217	10658	4245.0	6917.9	1	6	2016	18:52	71	12.64	32.08	6.28	32.86	6	V
218	10574	4244.5	6935.7	1	6	2016	21:51	237	12.75	32.32	6.58	33.77	8	V
219	10664	4256.0	6937.8	2	6	2016	0:08	162	12.94	31.75	6.42	33.27	3	W
220	10573	4302.9	6954.0	2	6	2016	2:20	208	11.41	31.59	6.56	33.61	6	V
221	10567	4303.2	7009.1	2	6	2016	4:38	148	12.33	32.09	5.91	32.87	6	V
222	10561	4255.2	7004.6	2	6	2016	6:28	83	13.05	31.07	5.69	32.63	1	V
108	10565	4256.8	7000.0	2	6	2016	7:37	131	12.99	32.10	6.06	32.90	7	B
223	10576	4249.4	6954.6	2	6	2016	9:51	218	13.00	32.37	6.56	33.57	8	V
224	10560	4244.2	7018.1	2	6	2016	12:24	66	NaN	NaN	5.63	32.46	7	V
225	10564	4249.1	7015.1	2	6	2016	14:48	66	12.70	31.94	5.57	32.40	7	V
109	10566	4257.3	7024.1	2	6	2016	17:57	117	13.39	31.76	5.72	32.61	3	B
110	10614	4303.1	7030.6	2	6	2016	20:37	64	13.73	31.65	5.73	32.24	4	B
226	10656	4249.5	7044.1	2	6	2016	23:41	39	13.47	31.48	6.38	31.98	2	V
227	10465	4242.9	7035.9	3	6	2016	1:33	55	15.11	30.89	5.93	32.13	4	W
228	10798	4236.2	7028.4	3	6	2016	3:28	81	13.96	31.20	5.63	32.31	7	V
229	10797	4231.1	7038.2	3	6	2016	5:17	65	13.92	30.94	6.12	32.15	7	V

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Cast #	Sta #	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
230	10799	4230.1	7042.6	3	6	2016	6:49	55	14.45	30.85	6.25	32.13	7	V
231	10655	4233.5	7043.3	3	6	2016	8:42	30	14.79	30.92	7.16	31.95	1	V
232	10657	4224.9	7052.5	3	6	2016	12:42	28	14.52	30.81	8.55	31.73	7	V
233	10563	4222.9	7027.7	3	6	2016	14:38	87	14.07	31.35	5.73	32.40	5	V
234	10559	4227.2	7017.6	3	6	2016	16:27	74	13.71	31.47	5.67	32.45	4	V
235	10562	4218.2	7018.8	3	6	2016	18:15	41	10.51	31.40	6.03	32.28	5	V
236	10461	4206.6	7003.5	3	6	2016	20:32	47	13.96	31.18	6.53	32.09	3	V
237	11912	4154.0	6955.7	4	6	2016	0:04	26	9.92	31.48	7.99	31.82	2	V
238	10544	4200.3	6953.1	4	6	2016	1:35	75	11.08	31.15	6.13	32.38	5	W
239	11648	4158.8	6953.5	4	6	2016	2:44	63	13.28	30.99	6.24	32.30	6	V
240	10569	4206.7	6949.3	4	6	2016	7:07	138	10.47	32.27	6.37	33.16	5	V
241	10568	4210.2	6958.7	4	6	2016	9:24	133	13.65	31.20	6.07	32.85	7	V
242	10462	4158.8	7020.4	4	6	2016	12:28	47	12.64	31.26	6.00	32.11	8	V
243	10654	4157.4	7019.1	4	6	2016	13:41	43	15.03	31.14	6.11	32.06	10	V
244	10651	4148.4	7017.2	4	6	2016	15:32	25	15.99	31.20	8.28	31.58	3	V
245	10650	4154.7	7028.6	4	6	2016	17:29	31	15.20	31.19	6.93	31.81	2	V
246	10652	4202.3	7028.4	4	6	2016	19:17	44	14.52	31.19	6.17	32.10	1	V
247	11866	4155.5	7026.4	4	6	2016	22:21	37	14.97	31.17	6.45	31.90	4	V
248	10649	4202.9	7033.5	5	6	2016	0:58	35	14.45	31.15	6.68	31.94	3	V
249	10653	4207.2	7030.3	5	6	2016	3:05	42	13.59	31.22	6.28	32.10	3	W
250	10464	4215.0	7035.1	6	6	2016	23:56	36	15.50	31.10	6.58	32.09	7	V
111	10466	4212.8	7034.7	7	6	2016	1:16	33	15.00	31.10	6.53	32.09	7	B
251	10463	4210.7	7030.7	7	6	2016	3:12	54	13.38	31.25	6.13	32.21	5	V

Deployment codes: B=bongo cast; W=water cast; and V=vertical cast

Records in bold are collected with SBE0832