

Oceanography Branch CTD Data Report
CTD_REPORT_2018002HB

**For further information, contact Tamara Holzwarth-Davis
National Marine Fisheries Service, Northeast Fisheries Science
Center, Woods Hole, Massachusetts 02543-1097.**

DATE: October 26, 2018

CTD_REPORT_2017002HB.pdf

Oceans and Climate Branch CTD Data Report

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

HB 1702
2017 Spring Bottom Trawl Survey
Data Coverage: March 7 – May 12, 2017
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 2017 Bottom Trawl Survey aboard the NOAA FSV *Henry B Bigelow*. All data was obtained with two Seabird Electronics SBE Model 9/11+ CTD (serial #s 0420 & 0832) and a NMFS SBE19+ Seacat profiling CTD (s/n 7142). Salt water samples were collected for the purpose of calibrating the conductivity cell.

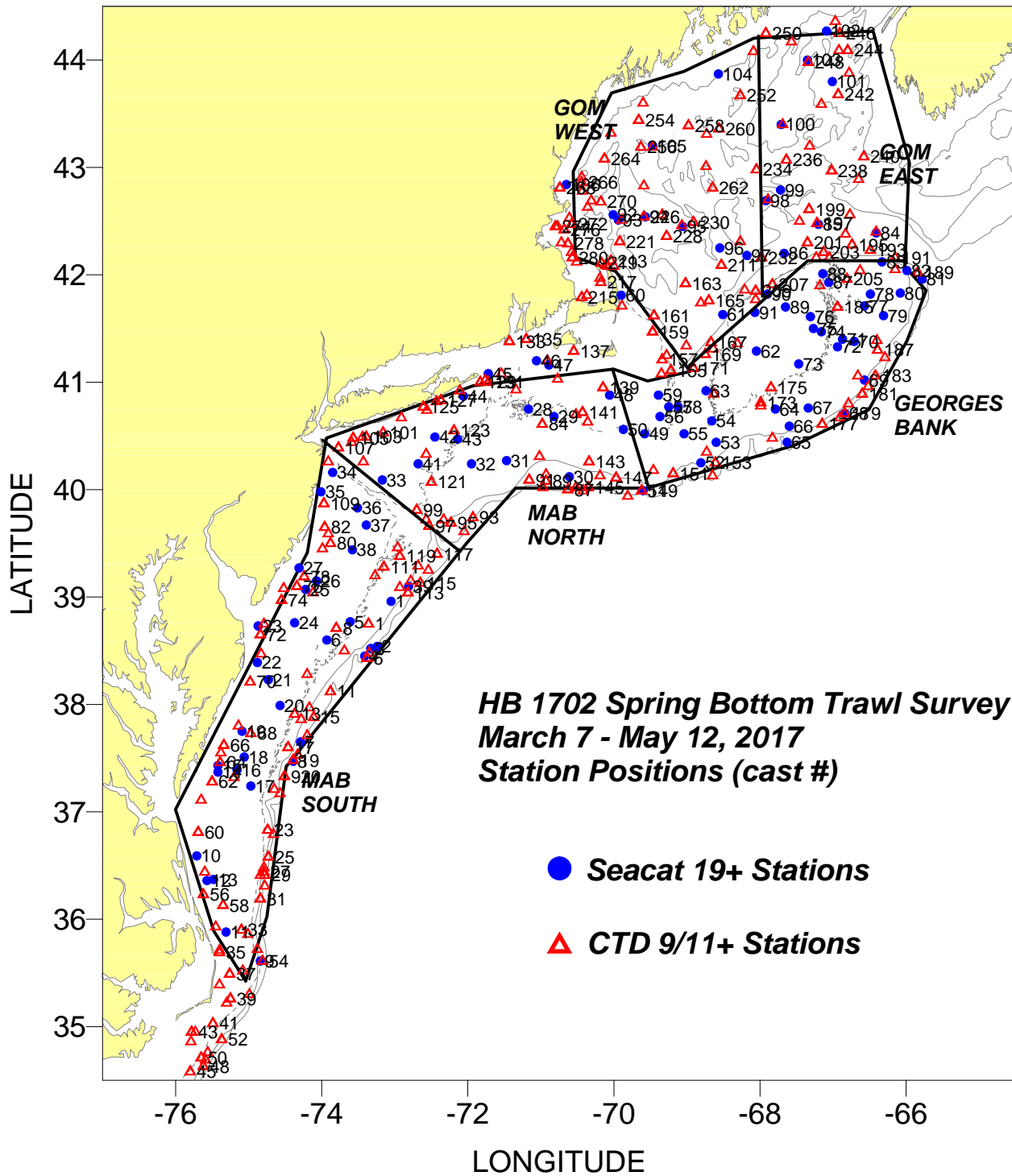
The SBE19+ was deployed on 104 double oblique bongo casts and 3 vertical casts. The SBE9/11+ was used successfully on 270 stations. Data presented here have been audited; however, corrections and/or updates may be applied at a later time.

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: **2017 Cruises**
MAR_TRAWL_HB1702
CTD_REPORT_2017002HB.pdf

Revised: October 26, 2018 (corrected link to NODC file)



**Areal average surface and bottom temperature/salinity and temperature/salinity anomalies for the
HB1702 Spring Bottom Trawl Survey
March 7 - May 12, 2017**

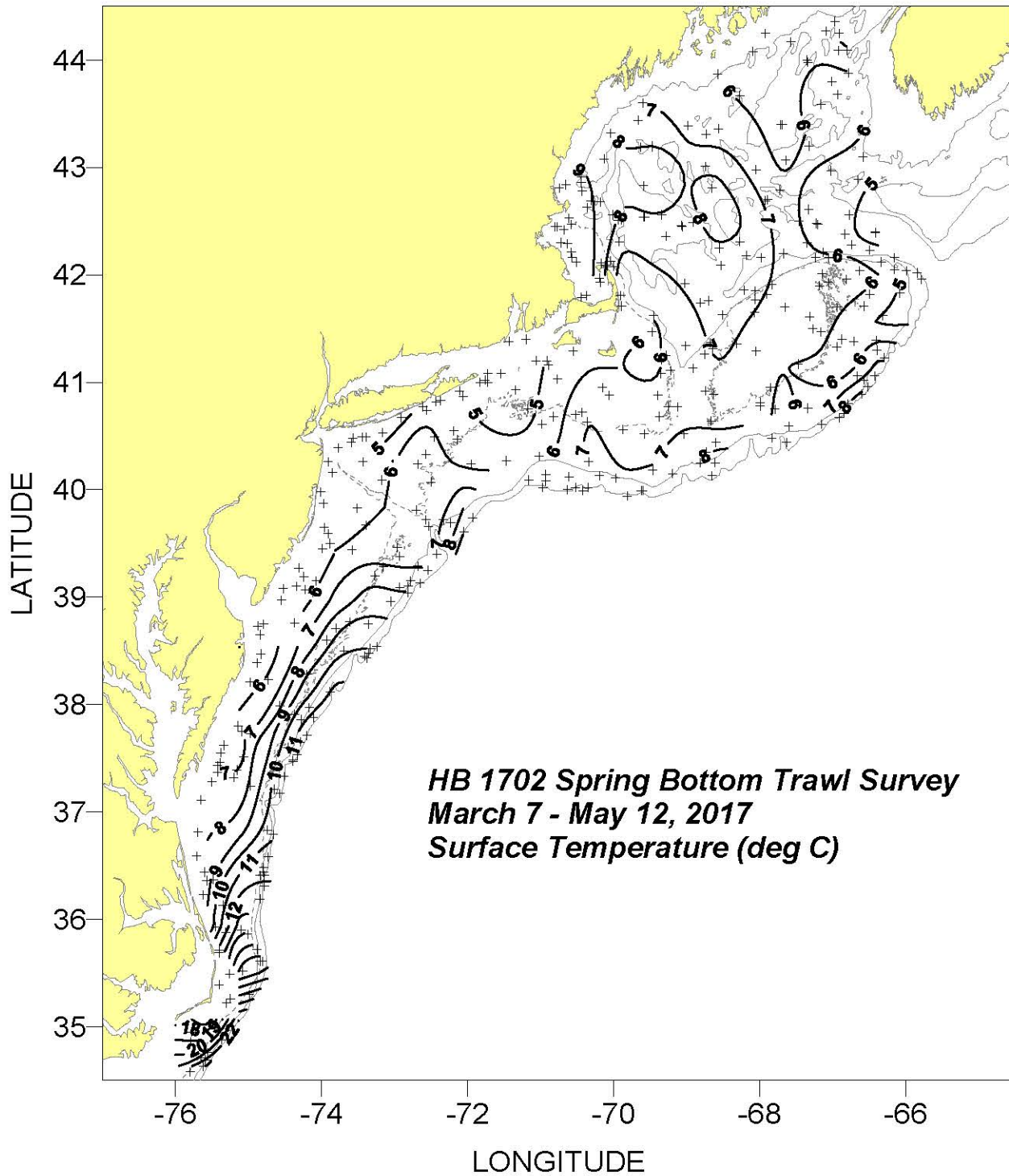
| CRUISE | CD | SURFACE | | | | | | BOTTOM | | | | | | Purpose |
|------------------------------|-----|---------|-------|---------|------|------|------|--------|-------|---------|------|------|------|---------|
| | | #obs | T/S | Anomaly | SDV1 | SDV2 | Flag | #obs | T/S | Anomaly | SDV1 | SDV2 | Flag | |
| Western Gulf of Maine | | | | | | | | | | | | | | |
| hb1702 | 124 | 53 | 7.42 | 0.98 | 0.15 | 0.70 | 0 | 38 | 6.05 | 1.10 | 0.16 | 0.65 | 0 | 10 |
| hb1702 | 124 | 53 | 32.18 | -0.22 | 0.06 | 0.39 | 0 | 38 | 33.04 | -0.21 | 0.05 | 0.31 | 0 | 10 |
| Eastern Gulf of Maine | | | | | | | | | | | | | | |
| hb1702 | 121 | 37 | 5.88 | 0.14 | 0.15 | 0.70 | 0 | 21 | 8.14 | 1.27 | 0.23 | 0.91 | 0 | 10 |
| hb1702 | 121 | 37 | 32.24 | -0.21 | 0.08 | 0.23 | 0 | 21 | 34.04 | -0.06 | 0.07 | 0.43 | 0 | 10 |
| Georges Bank | | | | | | | | | | | | | | |
| hb1702 | 109 | 62 | 6.59 | 0.77 | 0.19 | 0.93 | 0 | 58 | 7.24 | 0.97 | 0.20 | 1.22 | 0 | 10 |
| hb1702 | 109 | 62 | 32.82 | -0.18 | 0.06 | 0.37 | 0 | 58 | 33.41 | -0.01 | 0.06 | 0.49 | 0 | 10 |
| MAB North | | | | | | | | | | | | | | |
| hb1702 | 94 | 51 | 6.13 | 0.96 | 0.24 | 0.74 | 0 | 40 | 6.35 | 0.32 | 0.33 | 1.53 | 0 | 10 |
| hb1702 | 94 | 51 | 33.01 | 0.22 | 0.10 | 0.48 | 0 | 40 | 33.31 | -0.20 | 0.11 | 0.48 | 0 | 10 |
| MAB South | | | | | | | | | | | | | | |
| hb1702 | 78 | 95 | 7.99 | 1.49 | 0.19 | 1.40 | 0 | 86 | 8.13 | 1.48 | 0.24 | 1.48 | 0 | 10 |
| hb1702 | 78 | 95 | 33.69 | 0.57 | 0.11 | 0.67 | 0 | 86 | 33.96 | 0.25 | 0.09 | 0.51 | 0 | 10 |

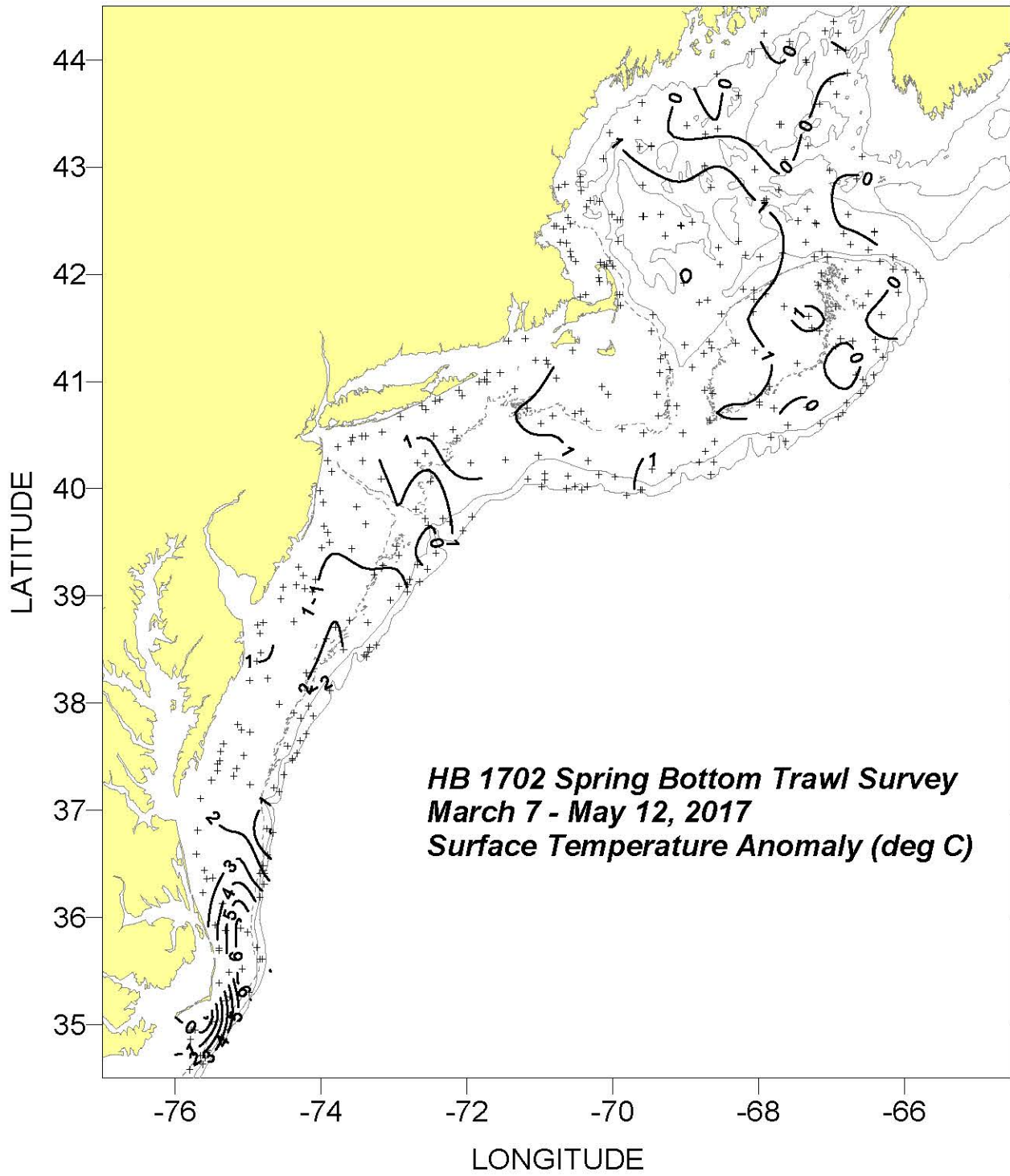
"CRUISE", the code name for a cruise: "CD", the calendar mid-date of all the stations within a region for a cruise:

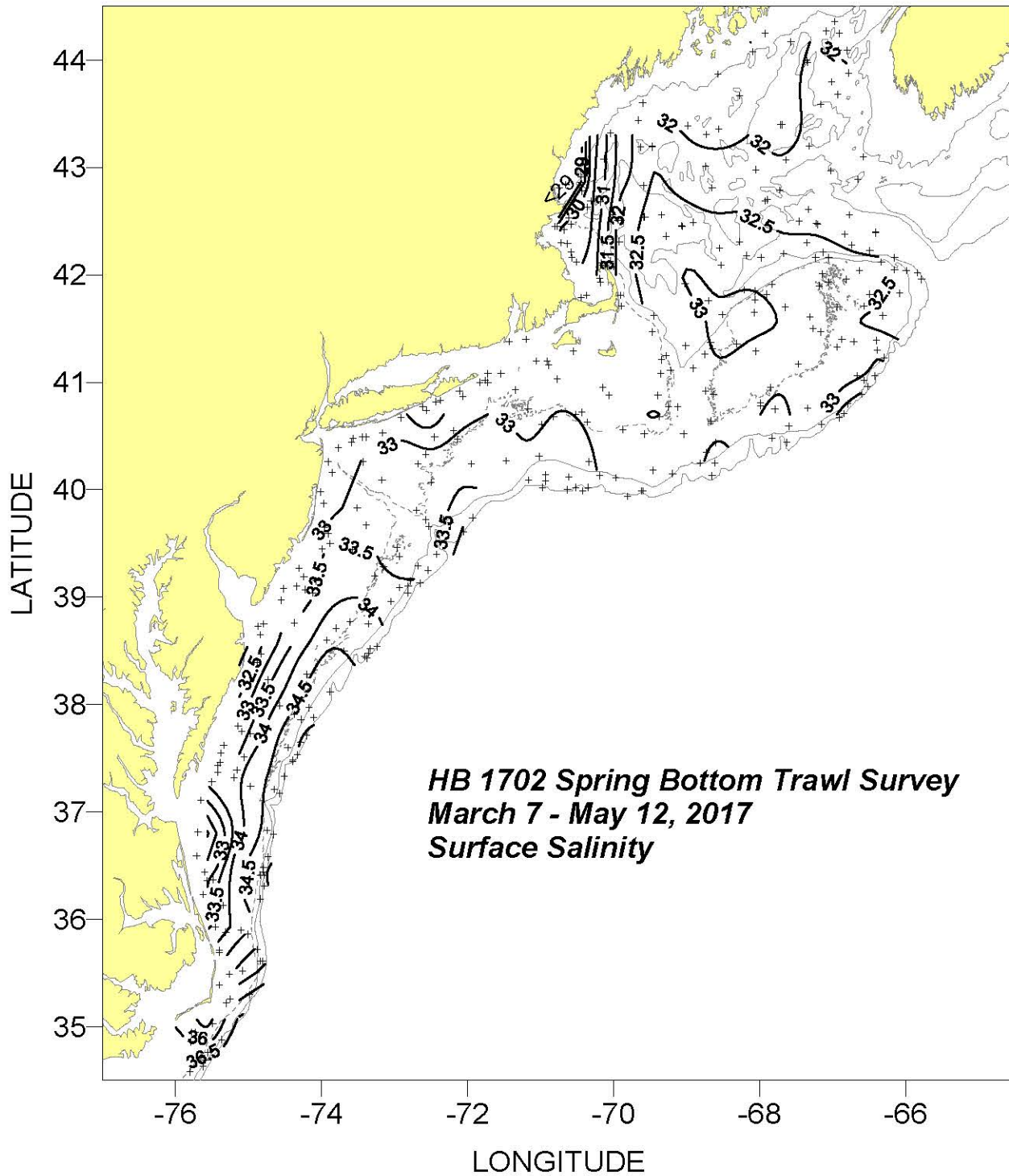
"#obs", the number of observations include in each average: "T/S", the areal average temp/salt: "Anomaly", the areal average temp/salt anomaly:

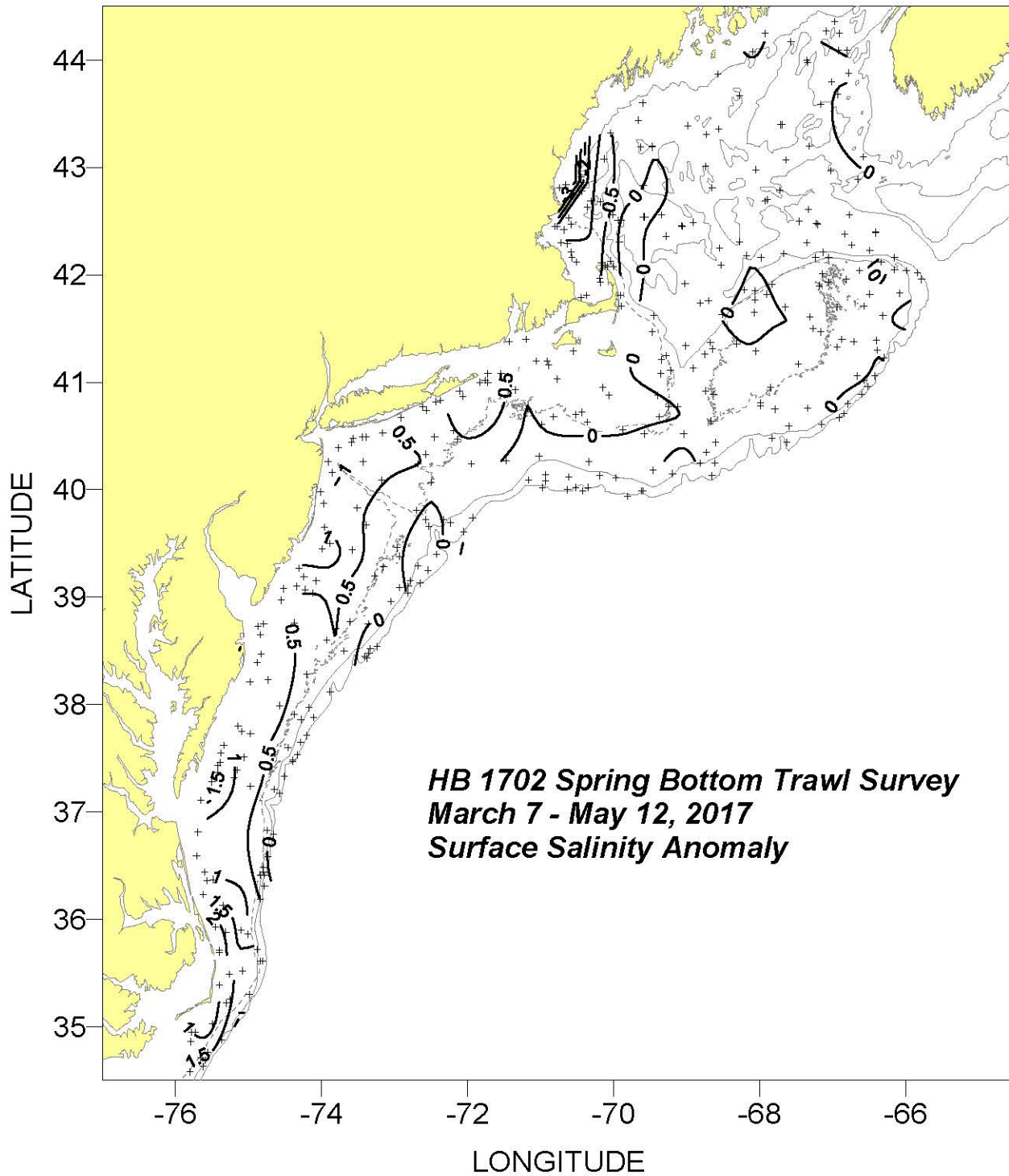
"SDV1", the standard deviation associated with the average temp/salt anomaly: "SDV2", the standard deviation of the individual anomalies from which the average anomaly was derived
"Flag", a value of "1" indicates that a true areal average could not be calculated due to poor station coverage. The areal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

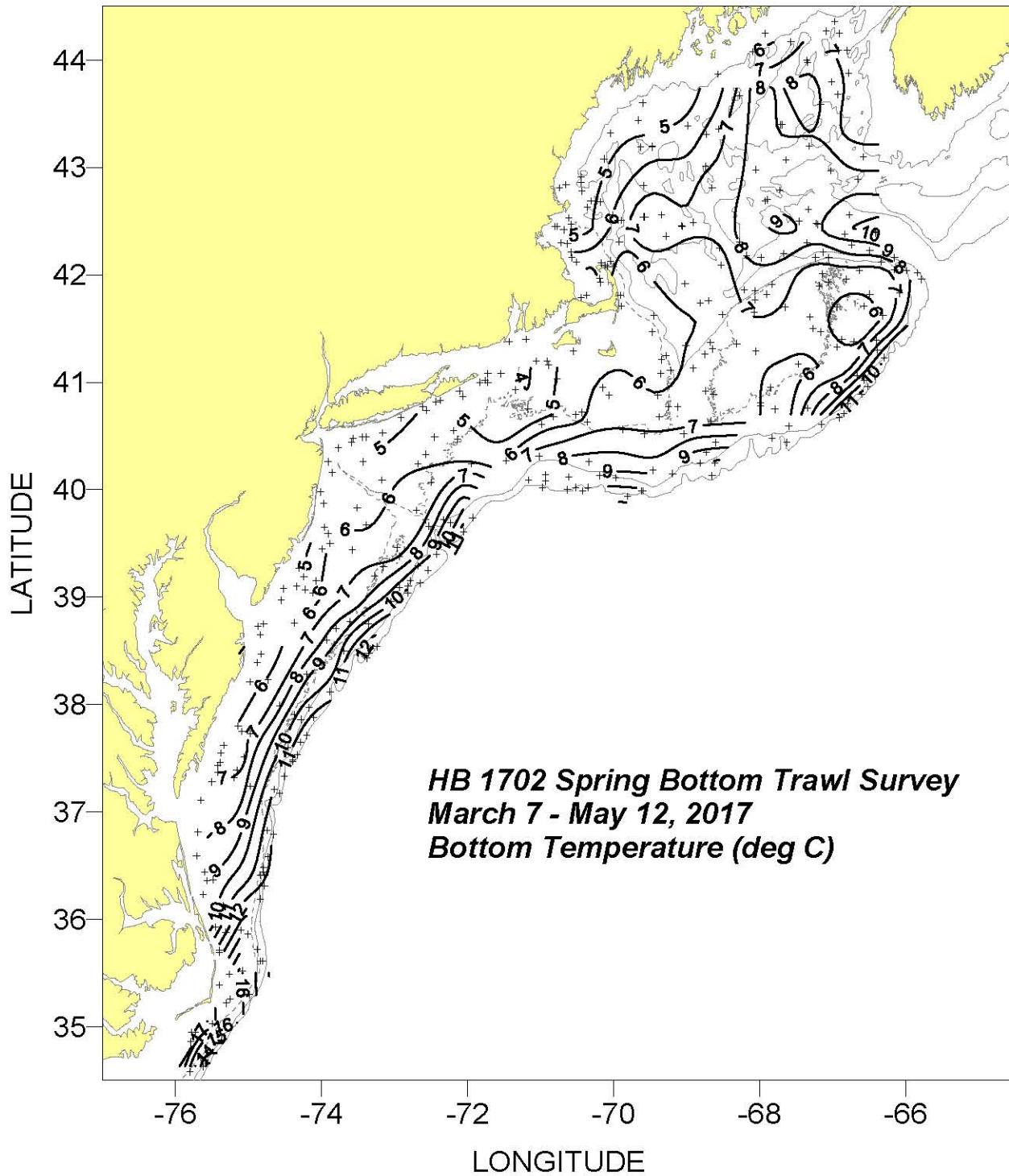
"Purpose", 2 digit code assigned by DMS to identify a unique NEFSC program survey.

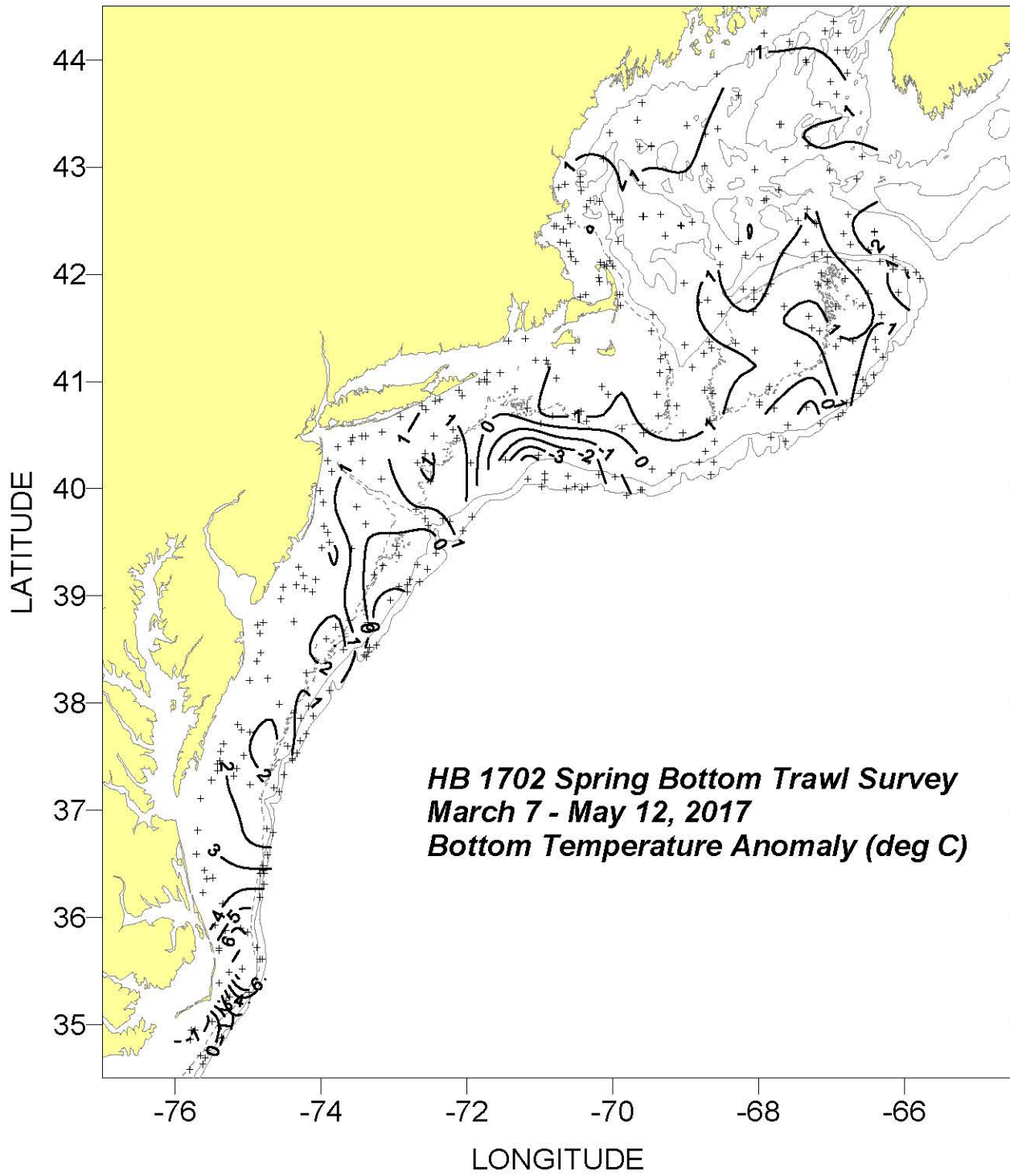


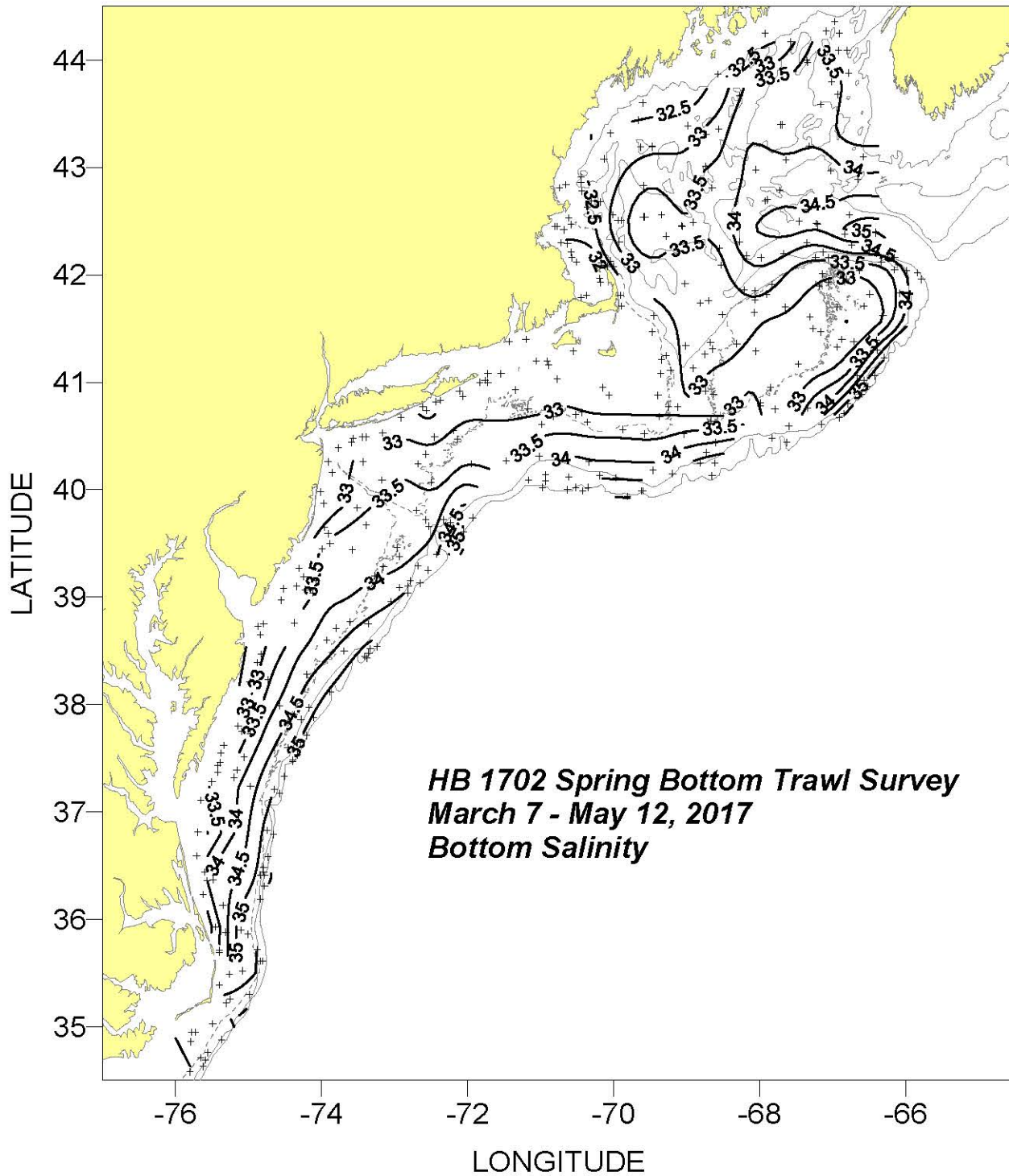


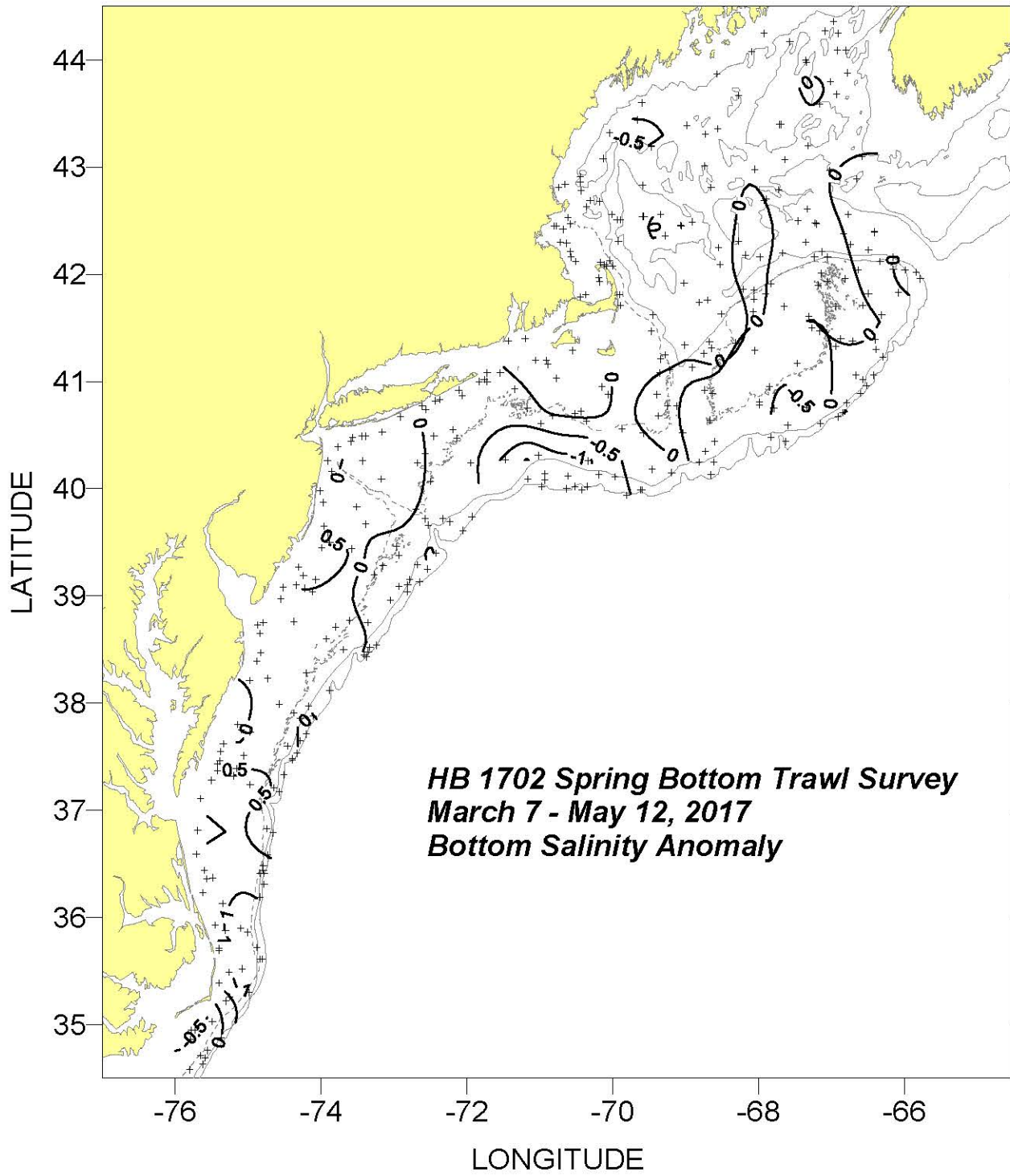












HB1702 Spring Bottom Trawl Survey
March 7 - May 12, 2017

| 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 | 14544 | 3857.4 | 7303.2 | 7 | 3 | 2017 | 7:08 | 83 | 8.94 | 33.82 | 9.80 | 34.23 | 6 | B |
| 1 | 14871 | 3845.1 | 7321.6 | 7 | 3 | 2017 | 9:55 | 79 | 9.71 | 34.32 | 9.37 | 34.45 | 6 | V |
| 2 | 14782 | 3832.3 | 7314.3 | 7 | 3 | 2017 | 14:49 | 366 | 9.87 | 34.16 | 12.62 | 35.68 | 163 | B |
| 3 | 14775 | 3831.3 | 7319.6 | 7 | 3 | 2017 | 17:27 | 129 | 9.97 | 34.22 | 11.98 | 35.02 | 6 | V |
| 5 | 14826 | 3828.5 | 7321.1 | 7 | 3 | 2017 | 18:59 | 124 | 10.15 | 34.35 | 13.10 | 35.48 | 8 | W |
| 6 | 14862 | 3825.8 | 7322.8 | 7 | 3 | 2017 | 20:22 | 403 | 10.85 | 34.61 | 6.84 | 35.16 | 1 | V |
| 4 | 14722 | 3826.7 | 7324.7 | 7 | 3 | 2017 | 22:36 | 118 | 10.27 | 34.30 | 12.86 | 35.28 | 3 | B |
| 7 | 14728 | 3829.9 | 7341.3 | 8 | 3 | 2017 | 1:06 | 70 | 10.24 | 34.64 | 10.02 | 34.61 | 2 | V |
| 5 | 14757 | 3846.1 | 7336.5 | 8 | 3 | 2017 | 4:02 | 62 | 8.97 | 34.27 | 8.31 | 34.24 | 7 | B |
| 8 | 14887 | 3842.8 | 7347.8 | 8 | 3 | 2017 | 6:40 | 51 | 8.94 | 34.37 | 8.28 | 34.33 | 7 | V |
| 6 | 14718 | 3836.0 | 7355.7 | 8 | 3 | 2017 | 8:57 | 52 | 8.35 | 34.24 | 8.26 | 34.26 | 5 | B |
| 10 | 14802 | 3816.7 | 7412.2 | 8 | 3 | 2017 | 14:23 | 59 | 8.33 | 34.28 | 8.33 | 34.28 | 7 | V |
| 11 | 14748 | 3807.1 | 7352.7 | 8 | 3 | 2017 | 17:08 | 129 | 11.12 | 34.84 | 12.04 | 35.17 | 10 | V |
| 12 | 14733 | 3758.3 | 7410.2 | 8 | 3 | 2017 | 19:30 | 95 | 11.15 | 34.83 | 11.06 | 34.91 | 6 | V |
| 13 | 14704 | 3754.6 | 7422.2 | 8 | 3 | 2017 | 21:24 | 66 | 10.49 | 34.73 | 10.26 | 34.75 | 8 | V |
| 14 | 14833 | 3751.3 | 7416.6 | 8 | 3 | 2017 | 23:00 | 80 | 11.00 | 34.84 | 10.77 | 34.85 | 7 | V |
| 15 | 14720 | 3752.5 | 7406.4 | 9 | 3 | 2017 | 0:48 | 185 | 11.86 | 35.06 | 12.71 | 35.44 | 9 | V |
| 16 | 14657 | 3742.3 | 7412.2 | 9 | 3 | 2017 | 3:05 | 197 | 12.01 | 35.13 | 12.46 | 35.64 | 12 | V |
| 7 | 14750 | 3738.9 | 7417.3 | 9 | 3 | 2017 | 4:56 | 118 | 11.57 | 34.99 | 11.37 | 34.96 | 5 | B |
| 17 | 14815 | 3735.8 | 7427.6 | 9 | 3 | 2017 | 7:03 | 68 | 11.46 | 35.05 | 11.47 | 35.06 | 7 | V |
| 18 | 14895 | 3731.7 | 7419.6 | 9 | 3 | 2017 | 8:53 | 225 | 12.00 | 35.16 | 12.04 | 35.59 | 7 | V |
| 19 | 14828 | 3728.6 | 7423.1 | 9 | 3 | 2017 | 10:24 | 280 | 11.90 | 35.17 | 9.85 | 35.36 | 3 | V |
| 8 | 14828 | 3728.2 | 7423.4 | 9 | 3 | 2017 | 10:50 | 371 | 11.85 | 35.09 | 12.16 | NaN | 167 | B |
| 920* | 14661 | 3719.8 | 7430.3 | 9 | 3 | 2017 | 13:18 | 138 | 12.13 | 35.18 | 12.34 | 35.34 | 6 | V |
| 921* | 14915 | 3712.8 | 7439.2 | 9 | 3 | 2017 | 15:15 | 92 | 10.29 | 34.70 | 11.22 | 35.01 | 7 | V |
| 22 | 14878 | 3710.2 | 7434.2 | 9 | 3 | 2017 | 16:59 | 122 | 11.25 | 35.00 | 11.99 | 35.28 | 8 | V |
| 23 | 14727 | 3649.5 | 7444.6 | 9 | 3 | 2017 | 19:54 | 81 | 9.85 | 34.56 | 10.68 | 34.97 | 8 | W |
| 24 | 14778 | 3647.4 | 7439.5 | 9 | 3 | 2017 | 21:21 | 187 | 11.26 | 34.98 | 12.41 | 35.52 | 1 | V |

**HB1702 Spring Bottom Trawl Survey
March 7 - May 12, 2017**

| 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 |
|--------|-----------|-------------|--------------|-----|----|------|------------|---------------|------------------|----------|-------------------------------|-----------------------|--------------------|----------------------|
| 25 | 14794 | 3634.5 | 7443.6 | 9 | 3 | 2017 | 23:47 | 190 | 11.14 | 34.95 | 12.26 | 35.48 | 10 | V |
| 26 | 14835 | 3629.1 | 7447.1 | 10 | 3 | 2017 | 1:46 | 93 | 9.33 | 34.41 | 10.83 | 34.98 | 7 | V |
| 27 | 14821 | 3626.6 | 7447.2 | 10 | 3 | 2017 | 3:20 | 100 | 9.58 | 34.39 | 11.90 | 35.26 | 8 | V |
| 28 | 14673 | 3624.8 | 7450.7 | 10 | 3 | 2017 | 5:06 | 69 | 12.46 | 35.14 | 11.47 | 34.98 | 6 | V |
| 29 | 14841 | 3624.7 | 7446.8 | 10 | 3 | 2017 | 6:37 | 180 | 9.22 | 34.36 | 11.96 | 35.35 | 8 | V |
| 30 | 14588 | 3618.3 | 7447.0 | 10 | 3 | 2017 | 8:23 | 215 | 14.31 | 35.58 | 12.78 | 35.63 | 16 | V |
| 31 | 14866 | 3611.4 | 7450.4 | 10 | 3 | 2017 | 10:46 | 93 | 16.48 | 35.98 | 12.77 | 35.41 | 8 | V |
| 32 | 14908 | 3551.3 | 7500.4 | 10 | 3 | 2017 | 18:26 | 49 | 15.65 | 35.35 | 11.92 | 35.12 | 11 | V |
| 33 | 14693 | 3553.8 | 7505.9 | 10 | 3 | 2017 | 19:56 | 33 | 14.02 | 34.65 | 13.79 | 35.42 | 9 | V |
| 34 | 14854 | 3542.5 | 7524.2 | 11 | 3 | 2017 | 0:07 | 25 | 12.90 | 33.94 | 13.22 | 34.11 | 6 | V |
| 35 | 14854 | 3541.6 | 7524.1 | 11 | 3 | 2017 | 6:16 | 25 | 12.23 | 33.85 | 12.22 | 33.84 | 9 | V |
| 36 | 14540 | 3531.3 | 7504.8 | 11 | 3 | 2017 | 9:52 | 37 | 16.17 | 35.27 | 16.33 | 35.30 | 7 | V |
| 37 | 14651 | 3529.7 | 7515.8 | 11 | 3 | 2017 | 12:26 | 30 | 14.58 | 34.51 | 14.63 | 34.66 | 9 | V |
| 38 | 14546 | 3523.5 | 7523.9 | 11 | 3 | 2017 | 14:28 | 22 | 13.92 | 34.38 | 13.89 | 34.39 | 8 | V |
| 39 | 14643 | 3515.7 | 7515.1 | 11 | 3 | 2017 | 16:47 | 28 | 18.69 | 35.99 | 18.78 | 36.03 | 9 | V |
| 40 | 14580 | 3513.3 | 7517.7 | 11 | 3 | 2017 | 18:08 | 29 | 17.46 | 35.65 | 17.31 | 35.63 | 8 | V |
| 41 | 14760 | 3502.0 | 7529.5 | 11 | 3 | 2017 | 20:42 | 39 | 15.89 | 35.10 | 17.16 | 35.83 | 9 | V |
| 42 | 14927 | 3456.9 | 7544.0 | 11 | 3 | 2017 | 23:36 | 30 | 20.59 | 36.55 | 17.95 | 36.42 | 7 | V |
| 43 | 15005 | 3457.0 | 7546.8 | 12 | 3 | 2017 | 0:42 | 29 | 20.17 | 36.57 | 17.82 | 36.38 | 10 | V |
| 44 | 14906 | 3451.5 | 7547.3 | 12 | 3 | 2017 | 2:21 | 29 | 20.01 | 36.56 | 19.90 | 36.55 | 9 | V |
| 45 | 14548 | 3434.6 | 7548.0 | 12 | 3 | 2017 | 5:07 | 63 | 21.80 | 36.53 | 17.84 | 36.43 | 5 | V |
| 47 | 14717 | 3427.4 | 7543.9 | 12 | 3 | 2017 | 9:07 | 340 | 22.74 | 36.62 | 10.62 | 35.43 | 9 | V |
| 48 | 14674 | 3437.5 | 7537.1 | 12 | 3 | 2017 | 12:21 | 265 | 22.70 | 36.58 | 11.13 | 35.49 | 4 | V |
| 49 | 14796 | 3441.4 | 7535.7 | 12 | 3 | 2017 | 14:40 | 168 | 23.21 | 36.56 | 14.84 | 36.03 | 6 | V |
| 50 | 14761 | 3442.7 | 7539.2 | 12 | 3 | 2017 | 16:27 | 67 | 23.12 | 36.55 | 20.14 | 36.46 | 6 | V |
| 51 | 14771 | 3445.6 | 7533.4 | 12 | 3 | 2017 | 17:51 | 124 | 22.37 | 36.56 | 18.81 | 36.48 | 6 | V |
| 52 | 14885 | 3452.8 | 7522.2 | 12 | 3 | 2017 | 19:51 | 260 | 22.29 | 36.61 | 11.52 | 35.54 | 3 | V |

**HB1702 Spring Bottom Trawl Survey
March 7 - May 12, 2017**

| 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 |
|--------|-----------|-------------|--------------|-----|----|------|------------|---------------|------------------|----------|-------------------------------|-----------------------|--------------------|----------------------|
| 53 | 14622 | 3517.9 | 7459.5 | 12 | 3 | 2017 | 23:44 | 116 | 22.93 | 36.61 | 19.29 | 36.35 | 5 | V |
| 9 | 14776 | 3536.4 | 7450.4 | 13 | 3 | 2017 | 3:20 | 76 | 12.28 | 34.57 | 14.56 | 35.49 | 5 | B |
| 54 | 15014 | 3536.5 | 7448.8 | 13 | 3 | 2017 | 5:39 | 142 | 14.66 | 35.19 | 12.45 | 35.38 | 5 | V |
| 55 | 14645 | 3543.3 | 7452.9 | 13 | 3 | 2017 | 8:09 | 78 | 15.78 | 35.75 | 12.90 | 35.19 | 7 | V |
| 10 | 14772 | 3635.5 | 7542.7 | 15 | 3 | 2017 | 23:46 | 24 | 8.38 | 32.28 | 8.38 | 32.31 | 9 | B |
| 56 | 14558 | 3614.0 | 7537.3 | 16 | 3 | 2017 | 3:07 | 25 | 8.76 | 33.28 | 8.81 | 33.30 | 9 | W |
| 57 | 14800 | 3555.9 | 7527.3 | 16 | 3 | 2017 | 6:12 | 23 | 8.86 | 33.24 | 8.88 | 33.24 | 8 | V |
| 11 | 14894 | 3552.6 | 7518.9 | 18 | 3 | 2017 | 21:36 | 27 | 10.24 | 31.23 | 10.95 | 33.92 | 6 | B |
| 58 | 14899 | 3607.5 | 7520.9 | 19 | 3 | 2017 | 0:48 | 36 | 8.94 | 33.27 | 9.47 | 34.03 | 10 | V |
| 12 | 14581 | 3621.5 | 7534.1 | 19 | 3 | 2017 | 3:49 | 27 | 8.69 | 32.80 | 9.08 | 34.01 | 8 | B |
| 13 | 14606 | 3622.1 | 7529.1 | 19 | 3 | 2017 | 5:24 | 32 | 9.02 | 33.90 | 9.13 | 34.15 | 8 | B |
| 59 | 14822 | 3626.6 | 7536.2 | 19 | 3 | 2017 | 6:55 | 28 | 8.81 | 33.28 | 9.01 | 33.90 | 8 | V |
| 60 | 14882 | 3648.4 | 7541.7 | 19 | 3 | 2017 | 10:18 | 19 | 7.64 | 30.81 | 7.65 | 32.52 | 6 | V |
| 61 | 14675 | 3706.6 | 7538.9 | 19 | 3 | 2017 | 14:09 | 18 | 7.42 | 33.31 | 7.42 | 33.31 | 5 | V |
| 62 | 14837 | 3716.9 | 7530.1 | 19 | 3 | 2017 | 17:34 | 22 | 7.04 | 33.57 | 7.03 | 33.57 | 9 | V |
| 63 | 14837 | 3717.0 | 7530.1 | 19 | 3 | 2017 | 20:51 | 21 | 7.08 | 33.64 | 7.07 | 33.64 | 8 | W |
| 14 | 14913 | 3722.2 | 7525.5 | 19 | 3 | 2017 | 22:59 | 26 | 7.00 | 33.60 | 7.02 | 33.61 | 2 | B |
| 15 | 14765 | 3725.8 | 7525.2 | 20 | 3 | 2017 | 0:18 | 26 | 6.86 | 33.58 | 6.86 | 33.58 | 6 | B |
| 64 | 14695 | 3727.4 | 7523.5 | 20 | 3 | 2017 | 1:33 | 27 | 6.82 | 33.64 | 6.82 | 33.64 | 7 | V |
| 65 | 14664 | 3733.0 | 7522.5 | 20 | 3 | 2017 | 3:33 | 24 | 6.66 | 33.48 | 6.70 | 33.49 | 8 | V |
| 66 | 14578 | 3737.2 | 7520.3 | 20 | 3 | 2017 | 4:53 | 25 | 6.45 | 33.23 | 6.46 | 33.24 | 7 | V |
| 16 | 14912 | 3723.4 | 7509.7 | 20 | 3 | 2017 | 7:44 | 29 | 6.90 | 33.81 | 6.92 | 33.83 | 5 | B |
| 67 | 14671 | 3719.2 | 7512.3 | 20 | 3 | 2017 | 10:05 | 29 | 7.04 | 33.92 | 7.05 | 33.93 | 7 | V |
| 17 | 14678 | 3714.6 | 7458.0 | 20 | 3 | 2017 | 12:22 | 37 | 7.55 | 34.16 | 7.57 | 34.16 | 8 | B |
| 18 | 14892 | 3730.8 | 7503.9 | 20 | 3 | 2017 | 15:09 | 30 | 6.86 | 33.84 | 6.85 | 33.85 | 8 | B |
| 68 | 14681 | 3743.8 | 7458.0 | 20 | 3 | 2017 | 17:25 | 33 | 6.68 | 33.48 | 6.49 | 33.49 | 8 | V |
| 19 | 14694 | 3745.0 | 7505.1 | 20 | 3 | 2017 | 18:48 | 31 | 6.64 | 33.08 | 6.11 | 33.10 | 2 | B |
| 69 | 14635 | 3747.8 | 7508.7 | 20 | 3 | 2017 | 21:25 | 25 | 6.13 | 32.96 | 6.01 | 32.99 | 9 | V |

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March 7 - May 12, 2017

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|-----------|--------------|---------------|---------------|-----------|----------|-------------|--------------|---------------|------------------|--------------|-------------------------------|-----------------------|--------------------|----------------------|
| 20 | 14879 | 3759.2 | 7434.2 | 21 | 3 | 2017 | 1:40 | 42 | 7.23 | 34.11 | 7.28 | 34.11 | 5 | B |
| 21 | 14572 | 3814.0 | 7444.0 | 21 | 3 | 2017 | 4:55 | 36 | 5.98 | 33.53 | 5.99 | 33.52 | 7 | B |
| 70 | 14886 | 3812.7 | 7459.0 | 21 | 3 | 2017 | 7:15 | 23 | 5.73 | 32.41 | 5.56 | 32.46 | 8 | V |
| 22 | 14590 | 3823.5 | 7452.7 | 21 | 3 | 2017 | 9:23 | 25 | 5.37 | 32.20 | 5.33 | 32.41 | 8 | B |
| 71 | 14583 | 3828.1 | 7449.7 | 21 | 3 | 2017 | 11:16 | 25 | 5.24 | 32.34 | 5.22 | 32.60 | 8 | V |
| 72 | 14889 | 3839.0 | 7450.5 | 21 | 3 | 2017 | 13:07 | 30 | 5.18 | 31.64 | 5.14 | 32.88 | 8 | V |
| 23 | 14552 | 3843.5 | 7452.0 | 21 | 3 | 2017 | 14:20 | 19 | 5.15 | 32.12 | 5.02 | 32.97 | 7 | B |
| 73 | 14875 | 3844.9 | 7447.3 | 21 | 3 | 2017 | 15:40 | 18 | 5.29 | 33.24 | 5.00 | 33.25 | 6 | V |
| 24 | 14834 | 3845.5 | 7422.3 | 21 | 3 | 2017 | 18:13 | 41 | 6.43 | 33.62 | 5.71 | 33.66 | 6 | B |
| 74 | 14911 | 3857.9 | 7432.9 | 21 | 3 | 2017 | 20:33 | 16 | 4.97 | 32.94 | 4.66 | 32.98 | 8 | W |
| 75 | 14584 | 3904.9 | 7431.4 | 21 | 3 | 2017 | 22:12 | 22 | 4.95 | 32.88 | 4.37 | 32.89 | 6 | V |
| 76 | 14867 | 3906.1 | 7420.1 | 21 | 3 | 2017 | 23:47 | 27 | 5.20 | 33.20 | 4.95 | 33.27 | 8 | V |
| 25 | 14779 | 3904.0 | 7413.5 | 22 | 3 | 2017 | 1:11 | 30 | 5.26 | 33.22 | 4.99 | 33.27 | 8 | B |
| 77 | 14660 | 3902.3 | 7407.4 | 22 | 3 | 2017 | 2:33 | 38 | 5.31 | 33.33 | 5.05 | 33.39 | 8 | V |
| 26 | 14568 | 3909.0 | 7404.4 | 22 | 3 | 2017 | 4:06 | 38 | 5.32 | 33.42 | 5.41 | 33.55 | 7 | B |
| 78 | 14910 | 3911.5 | 7414.2 | 22 | 3 | 2017 | 5:58 | 22 | 4.89 | 33.11 | 4.91 | 33.18 | 8 | V |
| 27 | 14716 | 3915.9 | 7418.3 | 22 | 3 | 2017 | 7:27 | 19 | 4.93 | 33.14 | 4.67 | 33.13 | 6 | B |
| 79 | 14774 | 3926.8 | 7359.5 | 22 | 3 | 2017 | 10:03 | 23 | 5.61 | 33.59 | 5.53 | 33.60 | 6 | V |
| 80 | 14824 | 3929.8 | 7352.7 | 22 | 3 | 2017 | 11:33 | 31 | 5.66 | 33.68 | 6.56 | 34.05 | 4 | V |
| 81 | 14839 | 3935.3 | 7354.9 | 22 | 3 | 2017 | 13:40 | 27 | 5.54 | 33.55 | 5.54 | 33.55 | 8 | V |
| 82 | 14576 | 3939.1 | 7357.9 | 22 | 3 | 2017 | 15:18 | 26 | 5.33 | 33.20 | 5.33 | 33.31 | 9 | V |
| 83 | 14842 | 4055.8 | 7120.4 | 29 | 3 | 2017 | 0:48 | 58 | 4.79 | 33.08 | 4.80 | 33.13 | 6 | V |
| 28 | 14738 | 4045.2 | 7110.3 | 29 | 3 | 2017 | 3:15 | 61 | 4.71 | 32.82 | 4.12 | 32.95 | 7 | B |
| 84 | 14739 | 4036.3 | 7058.9 | 29 | 3 | 2017 | 5:24 | 73 | 4.81 | 32.91 | 4.59 | 33.01 | 7 | W |
| 29 | 14557 | 4041.1 | 7049.0 | 29 | 3 | 2017 | 7:13 | 68 | 5.18 | 32.99 | 4.87 | 33.05 | 5 | B |
| 30 | 14667 | 4007.1 | 7036.7 | 29 | 3 | 2017 | 11:32 | 128 | 6.31 | 33.22 | 11.69 | 34.91 | 11 | B |
| 85 | 14789 | 4001.1 | 7031.0 | 29 | 3 | 2017 | 13:46 | 288 | 7.89 | 33.72 | 10.39 | 35.33 | 1 | V |
| 87 | 14890 | 3959.8 | 7037.6 | 29 | 3 | 2017 | 18:08 | 258 | 9.77 | 34.39 | 10.12 | 35.30 | 6 | V |

**HB1702 Spring Bottom Trawl Survey
March 7 - May 12, 2017**

| 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 |
|--------|-----------|-------------|--------------|-----|----|------|------------|---------------|------------------|----------|-------------------------------|-----------------------|--------------------|----------------------|
| 88 | 14654 | 4001.3 | 7058.2 | 29 | 3 | 2017 | 21:03 | 269 | 6.18 | 33.22 | 11.32 | 35.42 | 14 | V |
| 89 | 14710 | 4004.5 | 7055.6 | 29 | 3 | 2017 | 23:35 | 180 | 6.26 | 33.23 | 12.41 | 35.28 | 9 | V |
| 90 | 14827 | 4008.5 | 7055.9 | 30 | 3 | 2017 | 1:40 | 147 | 6.30 | 33.25 | 8.82 | 34.05 | 10 | V |
| 91 | 14770 | 4005.5 | 7109.4 | 30 | 3 | 2017 | 4:55 | 178 | 6.14 | 33.21 | 12.54 | 35.42 | 8 | V |
| 92 | 14631 | 4018.3 | 7100.9 | 30 | 3 | 2017 | 7:49 | 103 | 5.93 | 33.17 | 5.58 | 33.17 | 6 | V |
| 31 | 14570 | 4016.0 | 7128.4 | 30 | 3 | 2017 | 11:25 | 88 | 5.29 | 33.03 | 4.72 | 33.05 | 7 | B |
| 32 | 14692 | 4014.7 | 7156.8 | 30 | 3 | 2017 | 14:42 | 69 | 5.65 | 33.16 | 6.23 | 33.44 | 5 | B |
| 93 | 14566 | 3944.4 | 7155.7 | 30 | 3 | 2017 | 18:23 | 197 | 9.11 | 34.12 | 12.60 | 35.42 | 10 | V |
| 94 | 14700 | 3936.3 | 7203.0 | 30 | 3 | 2017 | 20:34 | 210 | 10.72 | 34.70 | 12.66 | 35.47 | 8 | V |
| 95 | 14551 | 3941.4 | 7214.0 | 30 | 3 | 2017 | 23:13 | 126 | 6.86 | 33.36 | 6.27 | 33.30 | 11 | V |
| 96 | 14652 | 3943.0 | 7219.6 | 31 | 3 | 2017 | 0:56 | 104 | 6.61 | 33.25 | 5.60 | 33.18 | 10 | V |
| 97 | 14876 | 3939.9 | 7231.7 | 31 | 3 | 2017 | 2:45 | 83 | 5.57 | 33.08 | 6.51 | 33.49 | 10 | V |
| 98 | 14628 | 3943.1 | 7234.1 | 31 | 3 | 2017 | 4:00 | 80 | 6.01 | 33.14 | 6.70 | 33.53 | 6 | W |
| 99 | 14893 | 3948.6 | 7241.8 | 31 | 3 | 2017 | 5:39 | 58 | 5.90 | 33.14 | 6.99 | 33.67 | 7 | V |
| 33 | 14563 | 4005.1 | 7310.5 | 31 | 3 | 2017 | 9:08 | 45 | 6.73 | 33.73 | 5.98 | 33.75 | 6 | B |
| 100 | 14901 | 4015.6 | 7326.0 | 31 | 3 | 2017 | 12:01 | 35 | 4.85 | 33.02 | 4.67 | 33.10 | 10 | V |
| 101 | 14689 | 4031.7 | 7309.7 | 31 | 3 | 2017 | 14:49 | 29 | 4.82 | 32.97 | 4.67 | 32.96 | 9 | V |
| 102 | 14812 | 4040.1 | 7254.5 | 31 | 3 | 2017 | 17:10 | 25 | 4.57 | 32.64 | 4.56 | 32.65 | 8 | V |
| 103 | 14764 | 4029.5 | 7323.3 | 31 | 3 | 2017 | 20:37 | 24 | 4.58 | 32.77 | 4.58 | 32.77 | 8 | V |
| 104 | 14764 | 4029.5 | 7326.2 | 1 | 4 | 2017 | 11:55 | 20 | 4.51 | 32.80 | 4.51 | 32.80 | 8 | V |
| 105 | 14754 | 4028.9 | 7334.0 | 1 | 4 | 2017 | 13:56 | 25 | 4.47 | 32.71 | 4.47 | 32.76 | 7 | V |
| 106 | 14550 | 4026.2 | 7335.5 | 1 | 4 | 2017 | 15:27 | 24 | 4.57 | 32.79 | 4.55 | 32.79 | 7 | V |
| 107 | 14872 | 4023.6 | 7346.3 | 1 | 4 | 2017 | 17:10 | 35 | 5.04 | 32.73 | 5.04 | 32.74 | 8 | V |
| 108 | 14567 | 4015.5 | 7354.3 | 1 | 4 | 2017 | 19:18 | 23 | 5.70 | 31.92 | 5.56 | 32.47 | 7 | V |
| 34 | 14604 | 4009.6 | 7350.9 | 1 | 4 | 2017 | 21:14 | 26 | 5.42 | 32.80 | 5.35 | 32.80 | 7 | B |
| 35 | 14687 | 3958.8 | 7400.8 | 1 | 4 | 2017 | 23:39 | 22 | 5.73 | 31.37 | 5.73 | 31.57 | 7 | B |
| 109 | 14560 | 3952.4 | 7358.1 | 2 | 4 | 2017 | 1:14 | 23 | 5.81 | 32.26 | 5.82 | 32.27 | 7 | V |
| 36 | 14579 | 3949.6 | 7330.3 | 2 | 4 | 2017 | 4:44 | 35 | 5.16 | 33.26 | 5.17 | 33.27 | 5 | B |

HB1702 Spring Bottom Trawl Survey
March 7 - May 12, 2017

| 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 |
|------------|--------------|---------------|---------------|----------|----------|-------------|--------------|---------------|------------------|--------------|-------------------------------|-----------------------|--------------------|----------------------|
| 37 | 14787 | 3940.1 | 7323.6 | 2 | 4 | 2017 | 7:09 | 36 | 5.86 | 33.58 | 5.87 | 33.58 | 4 | B |
| 38 | 14734 | 3926.5 | 7334.8 | 2 | 4 | 2017 | 9:47 | 37 | 6.66 | 33.74 | 6.64 | 33.73 | 6 | B |
| 110 | 14804 | 3911.8 | 7316.2 | 2 | 4 | 2017 | 12:49 | 63 | 7.13 | 33.56 | 7.07 | 33.92 | 5 | W |
| 111 | 14691 | 3916.7 | 7308.8 | 2 | 4 | 2017 | 14:48 | 66 | 6.36 | 33.25 | 6.82 | 33.85 | 6 | V |
| 112 | 14860 | 3905.2 | 7255.7 | 2 | 4 | 2017 | 17:14 | 89 | 6.96 | 33.37 | 7.49 | 33.70 | 6 | V |
| 113 | 14613 | 3902.4 | 7249.3 | 2 | 4 | 2017 | 18:55 | 124 | 7.89 | 33.64 | 11.94 | 35.23 | 8 | V |
| 39 | 14762 | 3905.8 | 7248.4 | 2 | 4 | 2017 | 20:37 | 120 | 7.23 | 33.38 | 10.51 | 34.73 | 9 | B |
| 114 | 14745 | 3908.8 | 7246.5 | 2 | 4 | 2017 | 22:21 | 119 | 6.90 | 33.32 | 8.68 | 34.07 | 9 | V |
| 115 | 14797 | 3908.1 | 7239.0 | 3 | 4 | 2017 | 0:14 | 295 | 7.47 | 33.52 | 12.33 | 35.37 | 9 | V |
| 116 | 14607 | 3915.1 | 7232.1 | 3 | 4 | 2017 | 2:38 | 149 | 7.14 | 33.42 | 10.31 | 34.69 | 10 | V |
| 117 | 14916 | 3924.0 | 7225.0 | 3 | 4 | 2017 | 5:57 | 138 | 6.66 | 33.30 | 10.08 | 34.54 | 8 | V |
| 118 | 14849 | 3917.3 | 7240.9 | 3 | 4 | 2017 | 8:31 | 122 | 6.17 | 33.19 | 6.26 | 33.39 | 5 | V |
| 119 | 14561 | 3922.8 | 7256.0 | 3 | 4 | 2017 | 11:01 | 75 | 6.41 | 33.25 | 6.91 | 33.76 | 4 | V |
| 120 | 14644 | 3927.5 | 7257.5 | 3 | 4 | 2017 | 13:08 | 66 | 6.68 | 33.33 | 6.74 | 33.77 | 5 | V |
| 121 | 14724 | 4004.2 | 7229.8 | 3 | 4 | 2017 | 17:41 | 62 | 5.96 | 33.15 | 5.83 | 33.27 | 9 | V |
| 41 | 14603 | 4014.4 | 7241.0 | 3 | 4 | 2017 | 20:10 | 57 | 6.81 | 33.28 | 6.16 | 33.39 | 7 | B |
| 122 | 14632 | 4019.9 | 7234.3 | 3 | 4 | 2017 | 22:39 | 52 | 6.62 | 33.27 | 5.88 | 33.26 | 8 | V |
| 42 | 14780 | 4029.6 | 7226.9 | 4 | 4 | 2017 | 0:31 | 47 | 6.27 | 33.16 | 5.75 | 33.20 | 7 | B |
| 43 | 14626 | 4028.1 | 7208.6 | 4 | 4 | 2017 | 3:20 | 60 | 5.39 | 33.00 | 4.87 | 33.03 | 7 | B |
| 123 | 14725 | 4033.0 | 7211.3 | 4 | 4 | 2017 | 4:58 | 56 | 5.75 | 33.10 | 5.11 | 33.10 | 7 | V |
| 124 | 14806 | 4044.4 | 7233.7 | 4 | 4 | 2017 | 7:50 | 32 | 5.77 | 31.94 | 5.14 | 32.64 | 10 | W |
| 125 | 14737 | 4046.1 | 7236.4 | 4 | 4 | 2017 | 9:36 | 24 | 5.38 | 32.17 | 5.26 | 32.19 | 9 | V |
| 126 | 14683 | 4049.2 | 7225.7 | 4 | 4 | 2017 | 11:40 | 24 | 5.30 | 32.04 | 5.28 | 32.05 | 7 | V |
| 127 | 14600 | 4049.8 | 7222.4 | 4 | 4 | 2017 | 12:58 | 26 | 5.35 | 32.15 | 5.32 | 32.15 | 7 | V |
| 128 | 14601 | 4055.0 | 7206.6 | 4 | 4 | 2017 | 15:32 | 24 | 5.23 | 31.98 | 5.20 | 32.00 | 8 | V |
| 44 | 14877 | 4051.9 | 7203.4 | 4 | 4 | 2017 | 17:38 | 40 | 4.88 | 32.84 | 4.89 | 32.86 | 5 | B |
| 129 | 14767 | 4100.1 | 7150.0 | 4 | 4 | 2017 | 20:46 | 28 | 4.86 | 32.14 | 4.80 | 32.23 | 9 | V |
| 130 | 14740 | 4101.5 | 7145.8 | 4 | 4 | 2017 | 22:16 | 27 | 4.73 | 32.41 | 4.63 | 32.64 | 7 | V |

**HB1702 Spring Bottom Trawl Survey
March 7 - May 12, 2017**

| 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 |
|------------|--------------|---------------|---------------|-----------|----------|-------------|--------------|---------------|------------------|--------------|-------------------------------|-----------------------|--------------------|----------------------|
| 45 | 14545 | 4104.6 | 7143.5 | 4 | 4 | 2017 | 23:38 | 36 | 4.80 | 32.39 | 4.61 | 32.69 | 6 | B |
| 131 | 14752 | 4100.0 | 7143.0 | 5 | 4 | 2017 | 1:00 | 47 | 4.45 | 32.84 | 4.39 | 32.85 | 7 | V |
| 132 | 14542 | 4104.6 | 7132.5 | 5 | 4 | 2017 | 4:10 | 29 | 4.11 | 32.78 | 4.10 | 32.78 | 10 | V |
| 133 | 14569 | 4122.7 | 7125.6 | 5 | 4 | 2017 | 8:19 | 34 | 3.84 | 32.38 | 3.76 | 32.47 | 8 | V |
| 134 | 14741 | 4124.0 | 7112.0 | 5 | 4 | 2017 | 10:41 | 26 | 3.84 | 32.43 | 3.83 | 32.53 | 7 | V |
| 135 | 14741 | 4123.9 | 7112.1 | 5 | 4 | 2017 | 19:16 | 26 | 4.26 | 32.43 | 3.86 | 32.52 | 7 | V |
| 46 | 14682 | 4111.8 | 7103.4 | 5 | 4 | 2017 | 22:37 | 36 | 4.03 | 32.53 | 3.53 | 32.56 | 8 | B |
| 136 | 14900 | 4111.7 | 7054.6 | 6 | 4 | 2017 | 1:22 | 31 | 4.74 | 32.59 | 4.67 | 32.67 | 8 | V |
| 47 | 14831 | 4109.9 | 7053.1 | 6 | 4 | 2017 | 3:30 | 30 | 5.24 | 32.63 | 4.85 | 32.66 | 6 | B |
| 137 | 14655 | 4117.4 | 7032.9 | 6 | 4 | 2017 | 6:43 | 24 | 4.74 | 32.41 | 4.73 | 32.41 | 8 | W |
| 138 | 14615 | 4101.8 | 7046.1 | 12 | 4 | 2017 | 23:10 | 50 | 6.55 | 32.73 | 5.21 | 32.79 | 7 | W |
| 139 | 14847 | 4057.2 | 7008.8 | 13 | 4 | 2017 | 3:04 | 25 | 6.38 | 32.79 | 6.39 | 32.79 | 5 | V |
| 48 | 14666 | 4053.0 | 7003.8 | 13 | 4 | 2017 | 4:33 | 27 | 6.49 | 32.80 | 6.51 | 32.81 | 6 | B |
| 49 | 14768 | 4031.3 | 6934.7 | 13 | 4 | 2017 | 8:41 | 68 | 6.96 | 33.17 | 6.22 | 33.18 | 2 | B |
| 50 | 14541 | 4033.5 | 6952.0 | 13 | 4 | 2017 | 10:34 | 67 | 6.98 | 32.99 | 5.97 | 33.15 | 11 | B |
| 140 | 14685 | 4037.8 | 7021.5 | 13 | 4 | 2017 | 13:29 | 60 | 6.87 | 32.96 | 5.99 | 33.05 | 9 | V |
| 141 | 14712 | 4043.2 | 7025.6 | 13 | 4 | 2017 | 15:21 | 55 | 7.21 | 33.10 | 6.23 | 33.11 | 9 | V |
| 142 | 14853 | 4041.9 | 7031.4 | 13 | 4 | 2017 | 17:13 | 58 | 7.62 | 33.22 | 6.40 | 33.18 | 5 | V |
| 143 | 14616 | 4015.3 | 7020.7 | 13 | 4 | 2017 | 20:49 | 102 | 7.37 | 33.05 | 8.35 | 34.03 | 6 | V |
| 144 | 14638 | 3959.5 | 7025.3 | 14 | 4 | 2017 | 0:07 | 290 | 9.52 | 33.89 | 10.86 | 35.37 | 8 | V |
| 145 | 14742 | 4001.1 | 7021.0 | 14 | 4 | 2017 | 1:58 | 233 | 8.22 | 33.31 | 11.69 | 35.41 | 4 | V |
| 146 | 14816 | 4008.0 | 7011.5 | 14 | 4 | 2017 | 4:41 | 124 | 7.58 | 32.93 | 10.43 | 34.71 | 10 | V |
| 147 | 14785 | 4006.6 | 6958.4 | 14 | 4 | 2017 | 6:35 | 128 | 6.91 | 32.81 | 10.40 | 34.83 | 10 | V |
| 148 | 14547 | 3956.5 | 6948.4 | 14 | 4 | 2017 | 8:56 | 158 | 7.26 | 32.73 | 11.70 | 35.32 | 10 | V |
| 51 | 14641 | 3959.2 | 6936.2 | 14 | 4 | 2017 | 11:44 | 432 | 6.88 | 32.75 | 12.01 | 35.39 | 229 | B |
| 149 | 14641 | 3959.7 | 6937.3 | 14 | 4 | 2017 | 12:18 | 158 | 6.89 | 32.75 | 12.10 | 35.37 | 11 | V |
| 150 | 14599 | 4010.6 | 6927.8 | 14 | 4 | 2017 | 15:16 | 89 | 6.90 | 32.71 | 8.58 | 34.16 | 8 | V |
| 151 | 14697 | 4009.0 | 6911.2 | 14 | 4 | 2017 | 17:40 | 116 | 7.51 | 32.49 | 10.76 | 34.96 | 7 | W |

**HB1702 Spring Bottom Trawl Survey
March 7 - May 12, 2017**

| 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 |
|--------|-----------|-------------|--------------|-----|----|------|------------|---------------|------------------|----------|-------------------------------|-----------------------|--------------------|----------------------|
| 152 | 14749 | 4007.5 | 6839.2 | 14 | 4 | 2017 | 21:21 | 187 | 8.40 | 33.04 | 11.07 | 35.32 | 6 | V |
| 153 | 14719 | 4014.9 | 6836.6 | 14 | 4 | 2017 | 23:20 | 130 | 8.93 | 33.36 | 10.21 | 34.78 | 3 | V |
| 52 | 14820 | 4015.1 | 6848.7 | 15 | 4 | 2017 | 1:13 | 111 | 8.70 | 33.12 | 10.33 | 34.80 | 2 | B |
| 154 | 14763 | 4021.0 | 6843.7 | 15 | 4 | 2017 | 3:44 | 93 | 8.19 | 33.00 | 9.83 | 34.63 | 8 | V |
| 53 | 14751 | 4026.6 | 6836.2 | 15 | 4 | 2017 | 5:39 | 91 | 7.07 | 32.60 | 8.50 | 34.12 | 9 | B |
| 54 | 14783 | 4038.6 | 6839.3 | 15 | 4 | 2017 | 8:18 | 64 | 6.13 | 32.71 | 5.72 | 32.75 | 6 | B |
| 55 | 14670 | 4031.0 | 6902.5 | 15 | 4 | 2017 | 11:31 | 78 | 6.59 | 32.57 | 5.84 | 32.90 | 5 | B |
| 56 | 14663 | 4040.7 | 6922.3 | 15 | 4 | 2017 | 14:37 | 46 | 6.76 | 33.02 | 6.50 | 33.02 | 9 | B |
| 57 | 14686 | 4046.5 | 6914.9 | 15 | 4 | 2017 | 17:00 | 49 | 7.12 | 33.10 | 6.53 | 33.11 | 4 | B |
| 58 | 14746 | 4046.5 | 6907.0 | 15 | 4 | 2017 | 19:10 | 67 | 6.82 | 33.14 | 6.47 | 33.14 | 1 | B |
| 59 | 14611 | 4052.9 | 6923.3 | 16 | 4 | 2017 | 0:53 | 48 | 6.12 | 32.86 | 6.11 | 32.87 | 5 | B |
| 155 | 14903 | 4106.9 | 6913.2 | 16 | 4 | 2017 | 4:03 | 57 | 6.26 | 32.97 | 6.18 | 32.98 | 9 | V |
| 156 | 14640 | 4104.8 | 6921.2 | 16 | 4 | 2017 | 6:09 | 49 | 6.00 | 32.81 | 5.77 | 32.84 | 8 | V |
| 157 | 14897 | 4112.6 | 6920.7 | 16 | 4 | 2017 | 10:10 | 51 | 5.79 | 32.79 | 5.56 | 32.80 | 8 | V |
| 158 | 14639 | 4115.2 | 6917.0 | 16 | 4 | 2017 | 12:11 | 76 | 5.75 | 32.70 | 5.29 | 32.77 | 8 | V |
| 159 | 14840 | 4128.0 | 6928.4 | 16 | 4 | 2017 | 14:43 | 42 | 5.52 | 32.59 | 5.17 | 32.65 | 7 | V |
| 160 | 14840 | 4128.4 | 6928.1 | 16 | 4 | 2017 | 18:32 | 44 | 5.81 | 32.62 | 5.53 | 32.66 | 8 | W |
| 161 | 14715 | 4137.1 | 6927.0 | 16 | 4 | 2017 | 21:37 | 100 | 6.23 | 32.59 | 5.19 | 32.80 | 9 | V |
| 162 | 14808 | 4142.7 | 6953.2 | 17 | 4 | 2017 | 1:17 | 21 | 6.30 | 32.42 | 5.75 | 32.69 | 6 | V |
| 60 | 15268 | 4148.7 | 6954.1 | 17 | 4 | 2017 | 4:11 | 26 | 6.86 | 32.47 | 5.78 | 32.54 | 8 | B |
| 163 | 14577 | 4155.1 | 6901.4 | 17 | 4 | 2017 | 8:59 | 194 | 7.14 | 33.11 | 6.09 | 33.19 | 10 | V |
| 164 | 14753 | 4144.5 | 6848.9 | 17 | 4 | 2017 | 12:07 | 162 | 6.98 | 33.08 | 6.18 | 33.25 | 9 | V |
| 165 | 14676 | 4145.6 | 6841.9 | 17 | 4 | 2017 | 14:16 | 175 | 6.86 | 32.93 | 6.15 | 33.29 | 10 | V |
| 61 | 14598 | 4137.6 | 6830.7 | 17 | 4 | 2017 | 16:50 | 146 | 7.49 | 33.11 | 6.18 | 33.24 | 6 | B |
| 62 | 14624 | 4117.3 | 6802.7 | 17 | 4 | 2017 | 21:33 | 44 | 6.58 | 33.00 | 6.52 | 32.99 | 8 | B |
| 166 | 14844 | 4121.4 | 6818.4 | 18 | 4 | 2017 | 0:44 | 58 | 6.92 | 33.12 | 6.67 | 33.09 | 6 | V |
| 167 | 14805 | 4122.0 | 6840.4 | 18 | 4 | 2017 | 4:10 | 95 | 7.33 | 32.97 | 6.13 | 33.13 | 6 | V |
| 168 | 14874 | 4118.6 | 6838.7 | 18 | 4 | 2017 | 5:54 | 75 | 7.27 | 33.02 | 6.50 | 33.12 | 5 | V |

HB1702 Spring Bottom Trawl Survey
March 7 - May 12, 2017

| 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 |
|--------|-----------|-------------|--------------|-----|----|------|------------|---------------|------------------|----------|-------------------------------|-----------------------|--------------------|----------------------|
| 169 | 14585 | 4115.5 | 6844.8 | 18 | 4 | 2017 | 7:12 | 79 | 7.15 | 32.93 | 6.24 | 33.04 | 6 | V |
| 170 | 14864 | 4120.3 | 6900.5 | 18 | 4 | 2017 | 9:27 | 157 | 6.63 | 32.74 | 6.19 | 33.23 | 5 | V |
| 171 | 14714 | 4107.8 | 6854.3 | 18 | 4 | 2017 | 12:09 | 93 | 7.08 | 32.89 | 6.01 | 33.04 | 5 | V |
| 63 | 14759 | 4055.0 | 6844.5 | 18 | 4 | 2017 | 16:32 | 58 | 6.51 | 32.95 | 6.45 | 32.97 | 2 | B |
| 172 | 14803 | 4053.6 | 6837.6 | 18 | 4 | 2017 | 18:57 | 60 | 6.51 | 32.91 | 6.47 | 32.94 | 4 | V |
| 173 | 14830 | 4048.5 | 6759.2 | 18 | 4 | 2017 | 22:46 | 69 | 6.57 | 32.49 | 4.95 | 32.54 | 7 | W |
| 174 | 14627 | 4046.6 | 6759.5 | 19 | 4 | 2017 | 0:11 | 72 | 6.53 | 32.48 | 4.99 | 32.59 | 5 | V |
| 175 | 14870 | 4056.8 | 6750.8 | 19 | 4 | 2017 | 3:11 | 60 | 6.16 | 32.64 | 6.15 | 32.64 | 6 | V |
| 64 | 14621 | 4045.0 | 6747.4 | 19 | 4 | 2017 | 5:15 | 72 | 5.73 | 32.44 | 4.76 | 32.47 | 7 | B |
| 176 | 14907 | 4028.9 | 6749.6 | 19 | 4 | 2017 | 7:56 | 120 | 5.81 | 32.41 | 10.47 | 34.98 | 5 | V |
| 65 | 14811 | 4026.4 | 6737.6 | 19 | 4 | 2017 | 10:33 | 154 | 8.32 | 33.34 | 11.72 | 35.40 | 4 | B |
| 66 | 14605 | 4035.3 | 6736.0 | 19 | 4 | 2017 | 13:01 | 102 | 6.05 | 32.47 | 5.78 | 33.08 | 4 | B |
| 67 | 14819 | 4045.5 | 6720.7 | 19 | 4 | 2017 | 15:42 | 96 | 5.85 | 32.45 | 5.31 | 32.89 | 4 | B |
| 177 | 14781 | 4036.3 | 6709.0 | 19 | 4 | 2017 | 18:38 | 146 | 6.90 | 33.28 | 12.03 | 35.41 | 5 | V |
| 178 | 14766 | 4040.5 | 6654.5 | 19 | 4 | 2017 | 20:52 | 198 | 6.99 | 32.91 | 10.76 | 35.37 | 7 | V |
| 68 | 14851 | 4042.3 | 6650.5 | 19 | 4 | 2017 | 22:42 | 218 | 8.52 | 33.73 | 11.81 | 35.46 | 12 | B |
| 179 | 14851 | 4042.7 | 6650.4 | 19 | 4 | 2017 | 23:11 | 211 | 8.52 | 33.75 | 11.50 | 35.45 | 8 | W |
| 180 | 14769 | 4048.2 | 6647.4 | 20 | 4 | 2017 | 1:04 | 120 | 7.95 | 33.72 | 12.23 | 35.50 | 6 | V |
| 181 | 14559 | 4053.3 | 6636.0 | 20 | 4 | 2017 | 3:09 | 197 | 10.46 | 34.57 | 12.28 | 35.51 | 7 | V |
| 182 | 14553 | 4057.6 | 6631.3 | 20 | 4 | 2017 | 5:05 | 174 | 8.29 | 33.69 | 12.33 | 35.48 | 8 | V |
| 183 | 14855 | 4103.3 | 6625.5 | 20 | 4 | 2017 | 6:58 | 252 | 8.78 | 33.75 | 9.84 | 35.29 | 9 | V |
| 69 | 14609 | 4101.3 | 6634.4 | 20 | 4 | 2017 | 9:16 | 91 | 6.22 | 32.71 | 8.75 | 34.15 | 5 | B |
| 184 | 14612 | 4103.4 | 6639.9 | 20 | 4 | 2017 | 10:45 | 80 | 5.22 | 32.45 | 7.11 | 33.56 | 3 | V |
| 70 | 14856 | 4122.9 | 6642.9 | 20 | 4 | 2017 | 13:53 | 81 | 5.45 | 32.62 | 5.45 | 32.64 | 9 | B |
| 71 | 14813 | 4123.9 | 6652.3 | 20 | 4 | 2017 | 15:33 | 73 | 5.67 | 32.48 | 5.40 | 32.47 | 5 | B |
| 72 | 14814 | 4119.9 | 6656.4 | 20 | 4 | 2017 | 17:05 | 69 | 5.82 | 32.45 | 5.32 | 32.48 | 5 | B |
| 73 | 14593 | 4110.2 | 6728.1 | 20 | 4 | 2017 | 20:36 | 52 | 5.86 | 32.52 | 5.87 | 32.54 | 6 | B |
| 74 | 14859 | 4128.0 | 6709.6 | 20 | 4 | 2017 | 23:52 | 53 | 6.11 | 32.66 | 6.08 | 32.67 | 8 | B |

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March 7 - May 12, 2017

| 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 |
|------------|--------------|---------------|---------------|-----------|----------|-------------|--------------|---------------|------------------|--------------|-------------------------------|-----------------------|--------------------|----------------------|
| 75 | 14662 | 4129.8 | 6716.4 | 21 | 4 | 2017 | 1:47 | 45 | 6.49 | 32.88 | 6.49 | 32.88 | 6 | B |
| 76 | 14902 | 4136.7 | 6718.3 | 21 | 4 | 2017 | 3:54 | 60 | 6.59 | 33.01 | 6.60 | 33.01 | 8 | B |
| 185 | 14846 | 4142.2 | 6656.1 | 21 | 4 | 2017 | 7:17 | 63 | 5.83 | 32.60 | 5.84 | 32.65 | 5 | V |
| 77 | 14823 | 4142.6 | 6634.3 | 21 | 4 | 2017 | 9:42 | 72 | 6.02 | 32.84 | 6.05 | 32.85 | 10 | B |
| 78 | 14708 | 4149.1 | 6629.4 | 21 | 4 | 2017 | 11:18 | 78 | 6.04 | 32.86 | 6.07 | 32.87 | 8 | B |
| 79 | 14914 | 4137.4 | 6618.9 | 21 | 4 | 2017 | 13:29 | 88 | 4.42 | 32.20 | 6.16 | 33.10 | 10 | B |
| 186 | 14832 | 4123.4 | 6624.2 | 21 | 4 | 2017 | 15:44 | 96 | 5.68 | 32.45 | 5.88 | 32.89 | 6 | V |
| 187 | 14868 | 4117.9 | 6623.3 | 21 | 4 | 2017 | 17:46 | 98 | 5.69 | 32.51 | 5.61 | 32.87 | 61 | V |
| 188 | 14790 | 4113.9 | 6617.5 | 21 | 4 | 2017 | 19:36 | 127 | 5.62 | 32.40 | 11.49 | 35.24 | 6 | W |
| 80 | 14668 | 4149.5 | 6604.5 | 21 | 4 | 2017 | 23:56 | 97 | 4.33 | 31.81 | 6.34 | 33.22 | 4 | B |
| 81 | 14755 | 4157.7 | 6546.7 | 22 | 4 | 2017 | 3:47 | 234 | 4.67 | 32.15 | 9.47 | 35.12 | 9 | B |
| 189 | 14726 | 4201.5 | 6550.1 | 22 | 4 | 2017 | 5:38 | 257 | 2.56 | 31.59 | 9.41 | 35.18 | 7 | V |
| 82 | 14801 | 4202.1 | 6559.2 | 22 | 4 | 2017 | 8:12 | 133 | 6.07 | 32.64 | 7.23 | 33.63 | 5 | B |
| 190 | 14736 | 4202.8 | 6609.1 | 22 | 4 | 2017 | 10:06 | 96 | 5.99 | 32.71 | 6.47 | 33.25 | 4 | V |
| 191 | 14703 | 4209.5 | 6608.8 | 22 | 4 | 2017 | 12:09 | 220 | 5.58 | 32.55 | 9.89 | 34.83 | 5 | V |
| 83 | 14642 | 4207.2 | 6619.7 | 22 | 4 | 2017 | 14:47 | 106 | 6.06 | 32.86 | 7.01 | 33.46 | 7 | B |
| 84 | 14792 | 4223.1 | 6624.8 | 22 | 4 | 2017 | 18:05 | 276 | 4.40 | 32.04 | 10.98 | 35.22 | 73 | B |
| 192 | 14792 | 4224.0 | 6624.5 | 22 | 4 | 2017 | 18:42 | 273 | 4.39 | 32.01 | 10.61 | 35.27 | 7 | V |
| 193 | 14898 | 4213.9 | 6629.6 | 22 | 4 | 2017 | 21:38 | 237 | 5.81 | 32.36 | 9.46 | 34.80 | 8 | V |
| 194 | 14592 | 4202.4 | 6637.6 | 23 | 4 | 2017 | 1:06 | 79 | 6.22 | 32.89 | 6.21 | 32.90 | 6 | V |
| 195 | 14629 | 4216.7 | 6644.5 | 23 | 4 | 2017 | 5:02 | 286 | 5.83 | 32.43 | 9.45 | 35.07 | 5 | V |
| 196 | 14810 | 4222.7 | 6649.6 | 23 | 4 | 2017 | 7:11 | 348 | 5.79 | 32.40 | 9.50 | 35.14 | 10 | V |
| 85 | 14850 | 4228.4 | 6711.8 | 23 | 4 | 2017 | 10:16 | 353 | 5.54 | 32.40 | 9.59 | 34.81 | 145 | B |
| 197 | 14850 | 4228.9 | 6713.0 | 23 | 4 | 2017 | 10:44 | 350 | 5.50 | 32.38 | 9.60 | 35.16 | 11 | V |
| 198 | 14707 | 4233.3 | 6645.9 | 23 | 4 | 2017 | 14:41 | 250 | 3.88 | 31.79 | 10.46 | 35.19 | 8 | V |
| 199 | 14873 | 4236.4 | 6719.7 | 23 | 4 | 2017 | 20:32 | 282 | 6.03 | 32.34 | 9.59 | 34.89 | 9 | W |
| 200 | 14848 | 4230.0 | 6727.8 | 23 | 4 | 2017 | 22:54 | 304 | 5.88 | 32.40 | 9.92 | 35.13 | 5 | V |
| 201 | 14735 | 4217.9 | 6721.0 | 24 | 4 | 2017 | 2:35 | 291 | 5.90 | 32.57 | 9.61 | 35.10 | 10 | V |

HB1702 Spring Bottom Trawl Survey
March 7 - May 12, 2017

| 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 |
|------------|--------------|---------------|---------------|-----------|----------|-------------|--------------|---------------|------------------|--------------|-------------------------------|-----------------------|--------------------|----------------------|
| 86 | 14574 | 4212.2 | 6740.0 | 24 | 4 | 2017 | 5:19 | 204 | 6.32 | 32.54 | 8.48 | 34.31 | 9 | B |
| 202 | 14555 | 4209.4 | 6713.9 | 24 | 4 | 2017 | 8:46 | 129 | 6.33 | 32.81 | 6.28 | 33.28 | 7 | V |
| 203 | 14880 | 4212.7 | 6707.5 | 24 | 4 | 2017 | 10:48 | 200 | 6.30 | 32.69 | 6.68 | 33.48 | 7 | V |
| 204 | 14573 | 4209.9 | 6702.8 | 24 | 4 | 2017 | 13:11 | 99 | 6.37 | 32.98 | 6.29 | 33.00 | 2 | V |
| 205 | 15184 | 4157.9 | 6648.5 | 24 | 4 | 2017 | 16:32 | 66 | 6.57 | 32.87 | 6.28 | 32.90 | 5 | V |
| 87 | 14891 | 4156.0 | 6703.7 | 24 | 4 | 2017 | 19:06 | 59 | 6.16 | 32.76 | 6.16 | 32.77 | 7 | B |
| 88 | 14843 | 4200.5 | 6708.6 | 24 | 4 | 2017 | 21:26 | 56 | 6.28 | 32.81 | 6.29 | 32.81 | 2 | B |
| 206 | 14784 | 4154.1 | 6710.6 | 24 | 4 | 2017 | 23:50 | 62 | 6.52 | 32.90 | 6.52 | 32.90 | 5 | V |
| 89 | 14861 | 4142.0 | 6739.1 | 25 | 4 | 2017 | 3:12 | 63 | 6.98 | 33.02 | 7.01 | 33.04 | 8 | B |
| 207 | 14562 | 4154.3 | 6750.0 | 25 | 4 | 2017 | 6:02 | 49 | 7.14 | 33.12 | 6.85 | 33.14 | 4 | V |
| 90 | 14659 | 4149.1 | 6753.8 | 25 | 4 | 2017 | 7:45 | 40 | 6.85 | 33.13 | 6.86 | 33.14 | 8 | B |
| 91 | 14648 | 4139.1 | 6804.2 | 25 | 4 | 2017 | 10:22 | 32 | 6.96 | 33.05 | 7.00 | 33.04 | 9 | B |
| 208 | 14677 | 4146.2 | 6803.3 | 25 | 4 | 2017 | 14:10 | 40 | 6.95 | 33.05 | 6.93 | 33.06 | 4 | V |
| 209 | 14688 | 4151.2 | 6803.8 | 25 | 4 | 2017 | 16:13 | 89 | 6.97 | 33.11 | 6.72 | 33.13 | 4 | V |
| 210 | 14904 | 4151.9 | 6812.5 | 25 | 4 | 2017 | 18:01 | 193 | 7.35 | 33.09 | 7.58 | 33.91 | 9 | W |
| 211 | 14709 | 4205.1 | 6831.5 | 25 | 4 | 2017 | 21:49 | 170 | 7.13 | 32.88 | 6.49 | 33.29 | 8 | V |
| 212 | 14617 | 4204.9 | 7000.1 | 26 | 4 | 2017 | 6:14 | 63 | 6.24 | 32.03 | 4.60 | 32.41 | 1 | V |
| 213 | 14589 | 4208.0 | 7002.2 | 26 | 4 | 2017 | 8:20 | 74 | 6.29 | 32.00 | 4.73 | 32.47 | 2 | V |
| 214 | 14630 | 4204.5 | 7005.0 | 26 | 4 | 2017 | 10:10 | 22 | 6.30 | 32.01 | 5.43 | 32.33 | 5 | V |
| 215 | 14672 | 4147.7 | 7026.4 | 3 | 5 | 2017 | 1:43 | 21 | 9.16 | 31.21 | 9.03 | 31.27 | 5 | W |
| 216 | 14731 | 4148.3 | 7022.0 | 3 | 5 | 2017 | 4:49 | 24 | 8.43 | 30.69 | 8.34 | 31.04 | 6 | V |
| 217 | 14669 | 4156.0 | 7010.8 | 3 | 5 | 2017 | 7:11 | 32 | 8.72 | 30.94 | 8.41 | 31.81 | 6 | V |
| 218 | 14650 | 4158.2 | 7011.3 | 3 | 5 | 2017 | 8:30 | 33 | 8.85 | 31.20 | 7.30 | 31.77 | 6 | V |
| 219 | 14680 | 4206.4 | 7010.3 | 3 | 5 | 2017 | 10:53 | 44 | 8.27 | 31.48 | 5.94 | 32.12 | 8 | V |
| 220 | 14630 | 4205.6 | 7006.4 | 3 | 5 | 2017 | 12:32 | 35 | 8.18 | 31.53 | 7.13 | 31.91 | 6 | V |
| 221 | 14575 | 4218.6 | 6955.5 | 3 | 5 | 2017 | 15:14 | 202 | 7.27 | 32.24 | 6.25 | 33.20 | 12 | V |
| 92 | 14595 | 4233.9 | 7000.8 | 3 | 5 | 2017 | 19:04 | 153 | 7.43 | 32.15 | 5.28 | 32.81 | 8 | B |
| 93 | 14565 | 4230.8 | 6956.3 | 3 | 5 | 2017 | 21:33 | 174 | 8.03 | 32.18 | 6.15 | 33.16 | 7 | B |

HB1702 Spring Bottom Trawl Survey
March 7 - May 12, 2017

| 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 |
|--------|-----------|-------------|--------------|-----|----|------|------------|---------------|------------------|----------|-------------------------------|-----------------------|--------------------|----------------------|
| 224 | 14705 | 4230.8 | 6953.1 | 3 | 5 | 2017 | 23:36 | 203 | 7.66 | 32.42 | 7.19 | 33.52 | 7 | V |
| 94 | 14698 | 4232.2 | 6934.0 | 4 | 5 | 2017 | 2:36 | 279 | 7.91 | 32.61 | 8.51 | 34.18 | 6 | B |
| 226 | 14698 | 4232.2 | 6935.4 | 4 | 5 | 2017 | 3:18 | 273 | 7.91 | 32.60 | 8.52 | 34.18 | 13 | V |
| 227 | 14696 | 4233.4 | 6920.2 | 4 | 5 | 2017 | 6:38 | 239 | 7.85 | 32.62 | 7.86 | 33.83 | 12 | W |
| 228 | 14888 | 4221.6 | 6916.6 | 4 | 5 | 2017 | 9:21 | 253 | 7.72 | 32.56 | 8.29 | 34.03 | 13 | V |
| 95 | 14658 | 4227.2 | 6903.9 | 4 | 5 | 2017 | 11:52 | 239 | 7.46 | 32.70 | 6.96 | 33.46 | 36 | B |
| 229 | 14658 | 4227.7 | 6904.3 | 4 | 5 | 2017 | 12:21 | 226 | 7.48 | 32.68 | 7.34 | 33.58 | 9 | V |
| 230 | 14845 | 4229.4 | 6854.9 | 4 | 5 | 2017 | 15:09 | 319 | 7.76 | 32.72 | 7.23 | 33.54 | 98 | V |
| 96 | 14637 | 4215.1 | 6833.0 | 4 | 5 | 2017 | 19:13 | 169 | 8.40 | 32.71 | 6.72 | 33.36 | 5 | B |
| 231 | 14625 | 4218.5 | 6816.3 | 4 | 5 | 2017 | 22:19 | 207 | 8.23 | NaN | 8.49 | 34.39 | 7 | V |
| 97 | 14556 | 4211.0 | 6810.9 | 5 | 5 | 2017 | 1:32 | 184 | 7.91 | 32.72 | 8.66 | 34.42 | 7 | B |
| 232 | 14619 | 4209.4 | 6758.8 | 5 | 5 | 2017 | 5:20 | 242 | 7.35 | NaN | 9.55 | NaN | 7 | V |
| 98 | 14777 | 4241.5 | 6755.3 | 5 | 5 | 2017 | 10:18 | 190 | 7.46 | 32.47 | 8.77 | 34.42 | 8 | B |
| 233 | 14777 | 4241.8 | 6753.7 | 5 | 5 | 2017 | 15:30 | 187 | 7.66 | 32.45 | 8.66 | 34.35 | 13 | V |
| 99 | 14786 | 4247.2 | 6743.3 | 5 | 5 | 2017 | 17:34 | 208 | 6.20 | 32.16 | 8.49 | 34.26 | 11 | B |
| 234 | 14744 | 4258.9 | 6802.8 | 5 | 5 | 2017 | 21:43 | 180 | 6.36 | 32.23 | 7.48 | 33.64 | 12 | V |
| 100 | 14649 | 4323.9 | 6742.9 | 6 | 5 | 2017 | 3:34 | 260 | 5.69 | 31.90 | 9.36 | 34.43 | 52 | B |
| 235 | 14649 | 4323.9 | 6741.3 | 6 | 5 | 2017 | 4:09 | 250 | 5.75 | 31.91 | 9.40 | 34.46 | 12 | V |
| 236 | 14543 | 4304.4 | 6738.2 | 6 | 5 | 2017 | 10:16 | 183 | 5.79 | 31.94 | 7.68 | 33.72 | 8 | V |
| 237 | 14883 | 4312.2 | 6719.0 | 6 | 5 | 2017 | 13:38 | 213 | 6.03 | 32.02 | 8.09 | 33.91 | 6 | V |
| 238 | 14653 | 4258.4 | 6701.0 | 6 | 5 | 2017 | 19:24 | 210 | 6.18 | 32.23 | 9.50 | 34.67 | 13 | V |
| 239 | 14836 | 4253.4 | 6639.2 | 7 | 5 | 2017 | 1:35 | 205 | 5.28 | 32.08 | 8.18 | 34.06 | 10 | V |
| 240 | 14610 | 4306.2 | 6634.6 | 7 | 5 | 2017 | 4:56 | 124 | 5.84 | 32.40 | 6.15 | 33.00 | 5 | V |
| 241 | 14656 | 4335.4 | 6709.3 | 7 | 5 | 2017 | 15:43 | 221 | 6.15 | 32.13 | 8.50 | 34.13 | 12 | V |
| 242 | 14857 | 4341.0 | 6655.7 | 7 | 5 | 2017 | 18:30 | 152 | 6.72 | 32.34 | 7.16 | 33.53 | 1 | V |
| 101 | 14665 | 4347.8 | 6700.5 | 7 | 5 | 2017 | 20:29 | 159 | 6.68 | 32.33 | 7.67 | 33.77 | 4 | B |
| 243 | 14591 | 4352.8 | 6647.0 | 7 | 5 | 2017 | 22:34 | 132 | 6.65 | 32.37 | 6.34 | 33.13 | 15 | V |
| 244 | 14869 | 4405.5 | 6648.2 | 8 | 5 | 2017 | 1:11 | 154 | 4.94 | 31.80 | 4.78 | 32.31 | 12 | V |

**HB1702 Spring Bottom Trawl Survey
March 7 - May 12, 2017**

| 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 |
|--------|-----------|-------------|--------------|-----|----|------|------------|---------------|------------------|----------|-------------------------------|-----------------------|--------------------|----------------------|
| 245 | 14597 | 4405.4 | 6655.5 | 8 | 5 | 2017 | 4:43 | 178 | 4.99 | 31.94 | 6.49 | 33.23 | 8 | W |
| 246 | 14809 | 4414.8 | 6654.6 | 8 | 5 | 2017 | 7:15 | 179 | 4.89 | 31.60 | 6.74 | 33.35 | 8 | V |
| 247 | 14647 | 4421.5 | 6658.2 | 8 | 5 | 2017 | 9:11 | 137 | 5.04 | 31.28 | 5.04 | 32.46 | 6 | V |
| 102 | 14623 | 4416.4 | 6705.5 | 8 | 5 | 2017 | 11:28 | 132 | 5.73 | 32.12 | 6.71 | 33.33 | 7 | B |
| 103 | 14596 | 4400.1 | 6721.1 | 8 | 5 | 2017 | 15:44 | 215 | 6.00 | 32.00 | 8.55 | 34.11 | 52 | B |
| 248 | 14596 | 4359.0 | 6720.2 | 8 | 5 | 2017 | 16:18 | 209 | 5.97 | 32.00 | 8.59 | 34.12 | 1 | V |
| 249 | 14730 | 4410.0 | 6734.1 | 8 | 5 | 2017 | 19:44 | 214 | 5.63 | 31.81 | 8.78 | 34.19 | 15 | V |
| 250 | 14711 | 4415.0 | 6755.0 | 8 | 5 | 2017 | 22:43 | 75 | 5.62 | 31.49 | 4.79 | 31.66 | 9 | V |
| 251 | 14614 | 4404.6 | 6805.4 | 9 | 5 | 2017 | 1:30 | 109 | 5.44 | 31.54 | 4.76 | 31.98 | 11 | V |
| 252 | 14747 | 4340.3 | 6816.4 | 9 | 5 | 2017 | 6:01 | 208 | 5.99 | 31.92 | 8.62 | 34.11 | 7 | V |
| 104 | 14773 | 4352.0 | 6834.1 | 9 | 5 | 2017 | 10:48 | 108 | 6.00 | 31.64 | 4.71 | 32.11 | 5 | B |
| 253 | 14594 | 4336.1 | 6935.9 | 9 | 5 | 2017 | 18:32 | 119 | 6.54 | 31.76 | 4.55 | 32.30 | 6 | V |
| 254 | 14881 | 4326.4 | 6939.4 | 9 | 5 | 2017 | 20:27 | 138 | 7.16 | 32.18 | 4.53 | 32.49 | 9 | V |
| 255 | 14713 | 4319.2 | 7002.5 | 9 | 5 | 2017 | 23:43 | 192 | 7.91 | 31.62 | 5.07 | 32.74 | 9 | V |
| 256 | 14684 | 4311.1 | 6937.8 | 10 | 5 | 2017 | 2:59 | 89 | 7.94 | 32.22 | 4.33 | 32.45 | 8 | V |
| 105 | 14620 | 4311.9 | 6928.1 | 10 | 5 | 2017 | 5:21 | 136 | 8.34 | 32.33 | 5.43 | 32.87 | 7 | B |
| 257 | 14620 | 4311.2 | 6928.4 | 10 | 5 | 2017 | 5:45 | 132 | 8.22 | 32.39 | 5.37 | 32.85 | 4 | V |
| 258 | 14905 | 4323.5 | 6858.8 | 10 | 5 | 2017 | 10:05 | 150 | 6.60 | 31.92 | 5.08 | 32.68 | 8 | V |
| 259 | 14608 | 4318.4 | 6844.1 | 10 | 5 | 2017 | 12:28 | 146 | 6.25 | 31.87 | 5.87 | 32.96 | 8 | W |
| 260 | 14799 | 4321.5 | 6833.6 | 10 | 5 | 2017 | 15:06 | 183 | 6.53 | 31.89 | 7.23 | 33.49 | 11 | V |
| 261 | 14634 | 4300.3 | 6844.7 | 10 | 5 | 2017 | 18:32 | 204 | 7.61 | 31.91 | 7.69 | 33.73 | 12 | V |
| 262 | 14571 | 4248.3 | 6838.9 | 10 | 5 | 2017 | 21:22 | 204 | 8.54 | 32.32 | 7.91 | 33.83 | 14 | V |
| 263 | 14791 | 4249.6 | 6935.1 | 11 | 5 | 2017 | 2:40 | 188 | 9.20 | 32.60 | 6.65 | 33.33 | 10 | V |
| 264 | 14679 | 4304.7 | 7007.9 | 11 | 5 | 2017 | 6:23 | 152 | 8.54 | 30.64 | 5.20 | 32.81 | 8 | V |
| 265 | 15266 | 4254.7 | 7026.4 | 11 | 5 | 2017 | 9:13 | 76 | 8.94 | 29.69 | 4.27 | 32.29 | 9 | V |
| 266 | 14702 | 4251.9 | 7026.4 | 11 | 5 | 2017 | 10:48 | 129 | 8.43 | 30.03 | 4.45 | 32.55 | 6 | V |
| 267 | 14706 | 4247.0 | 7025.7 | 11 | 5 | 2017 | 13:08 | 96 | 8.93 | 30.22 | 4.49 | 32.49 | 5 | V |
| 106 | 14758 | 4250.4 | 7039.2 | 11 | 5 | 2017 | 15:33 | 74 | 8.89 | 29.33 | 4.40 | 32.29 | 5 | B |

HB1702 Spring Bottom Trawl Survey
March 7 - May 12, 2017

| 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 |
|--------|-----------|-------------|--------------|-----|----|------|------------|---------------|------------------|----------|-------------------------------|-----------------------|--------------------|----------------------|
| 268 | 14807 | 4248.4 | 7044.4 | 11 | 5 | 2017 | 17:31 | 35 | 9.64 | 24.75 | 5.05 | 31.67 | 10 | V |
| 269 | 14564 | 4241.6 | 7018.7 | 11 | 5 | 2017 | 20:15 | 121 | 9.56 | 30.43 | 4.74 | 32.51 | 10 | V |
| 270 | 14699 | 4240.7 | 7011.0 | 11 | 5 | 2017 | 22:08 | 93 | 9.35 | 30.84 | 4.71 | 32.49 | 7 | V |
| 271 | 14756 | 4237.9 | 7021.5 | 12 | 5 | 2017 | 0:13 | 75 | 9.43 | 30.39 | 4.59 | 32.42 | 9 | V |
| 272 | 14554 | 4228.2 | 7035.0 | 12 | 5 | 2017 | 2:55 | 82 | 10.01 | 28.69 | 4.69 | 32.42 | 7 | V |
| 273 | 14788 | 4231.7 | 7036.8 | 12 | 5 | 2017 | 4:55 | 70 | 7.82 | 29.66 | 4.83 | 32.31 | 6 | V |
| 274 | 14884 | 4227.0 | 7048.1 | 12 | 5 | 2017 | 6:36 | 47 | 9.68 | 30.03 | 4.54 | 32.11 | 2 | W |
| 275 | 14701 | 4227.2 | 7046.2 | 12 | 5 | 2017 | 8:20 | 49 | 9.55 | 30.03 | 4.48 | 32.13 | 6 | V |
| 276 | 14817 | 4225.1 | 7040.8 | 12 | 5 | 2017 | 10:58 | 67 | 9.68 | 29.73 | 4.61 | 32.35 | 7 | V |
| 277 | 14858 | 4217.9 | 7043.0 | 12 | 5 | 2017 | 13:24 | 34 | 9.71 | 29.55 | 5.34 | 31.77 | 3 | V |
| 278 | 14865 | 4217.6 | 7037.9 | 12 | 5 | 2017 | 15:20 | 51 | 9.28 | 29.94 | 4.75 | 32.06 | 7 | V |
| 279 | 14587 | 4212.8 | 7035.0 | 12 | 5 | 2017 | 17:49 | 36 | 9.73 | 29.91 | 5.29 | 31.79 | 8 | V |
| 280 | 14743 | 4209.4 | 7034.2 | 12 | 5 | 2017 | 20:33 | 29 | 9.79 | 29.81 | 6.12 | 31.27 | 9 | V |
| 281 | 14793 | 4207.2 | 7030.3 | 12 | 5 | 2017 | 22:10 | 40 | 9.85 | 29.69 | 5.41 | 31.72 | 11 | V |

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

Records in bold are collected with an SBE911+ CTD

* casts renumbered in order to salvage data