

Oceans and Climate Branch CTD Data Report
CTD_REPORT_2024002HB

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DATE: 30 October 2024

Oceans and Climate Branch CTD Data Report

CTD_REPORT_2024002HB

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

HB 2402
Spring Bottom Trawl Survey
Data Coverage: March 7 - May 13, 2024
Mid Atlantic Bight, Georges Bank, Gulf of Maine

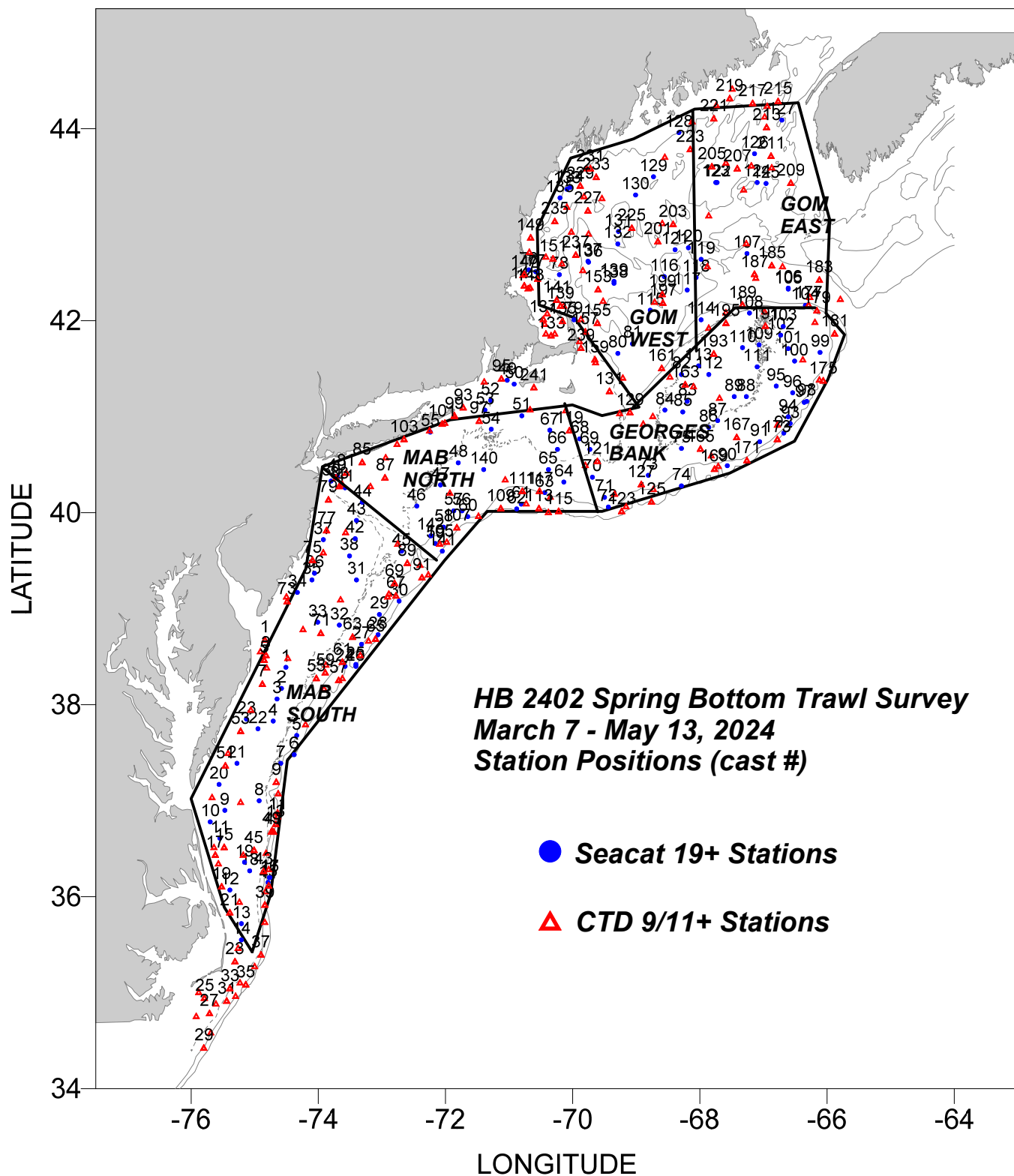
This report presents a summary of surface and bottom temperature and salinity data collected during the Northeast Fisheries Science Center's HB2402 Spring Bottom Trawl Survey aboard the NOAA FSV *Henry B Bigelow*. Data was obtained with three Sea-Bird Electronics SBE Model 19+V2 profiling CTD s(s/n 7142, 7037, & 4684) during double oblique bongo tows and a SBE Model 9/11+ s/n 0420 during vertical casts. Sea water samples were taken for the purpose of calibrating salinity values. An SBE43 Dissolved Oxygen sensor was attached to the SBE 19+V2. Dual SBE43 Dissolved Oxygen sensors and a Biospherical Instruments Inc. QSP2300 PAR (Photosynthetically Active Radiation) sensor were attached to the SBE 9/11+.

An SBE19+V2 was deployed on 109 double oblique bongo casts, and 28 vertical and/or water sampling casts. The SBE9/11+ was used successfully on 242 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 by contacting [Dr. Chris Melrose](#)

Revised: October 30, 2024



**Areal average surface and bottom temperature/salinity and temperature/salinity anomalies for the
HB2402 Spring Bottom Trawl Survey
March 7 - May 13, 2024**

Region	CD	SURFACE TEMPERATURE						BOTTOM TEMPERATURE					
		#obs	Temp (°C)	Anomaly	SDV1	SDV2	Flag	#obs	Temp (°C)	Anomaly	SDV1	SDV2	Flag
WGOM	122	53	7.77	1.51	0.15	0.66	0	52	6.94	1.93	0.12	0.73	0
EGOM	124	37	6.63	0.70	0.15	0.62	0	35	7.29	0.24	0.19	0.57	0
GB	113	61	6.47	0.33	0.19	1.41	0	61	6.71	0.31	0.19	1.14	0
MABN	99	57	6.40	0.84	0.23	1.34	0	57	7.21	0.65	0.26	1.80	0
MABS	76	107	8.31	2.05	0.18	1.87	0	105	8.72	2.08	0.22	1.71	0

Region	CD	SURFACE SALINITY						BOTTOM SALINITY					
		#obs	Salinity	Anomaly	SDV1	SDV2	Flag	#obs	Salinity	Anomaly	SDV1	SDV2	Flag
WGOM	122	53	31.11	-1.35	0.06	0.47	0	52	33.15	-0.15	0.04	0.45	0
EGOM	124	37	31.80	-0.62	0.07	0.26	0	35	33.91	-0.17	0.05	0.36	0
GB	113	61	32.02	-0.98	0.06	0.42	0	61	32.65	-0.77	0.06	0.49	0
MABN	99	57	31.54	-1.31	0.10	0.51	0	57	32.52	-1.18	0.09	0.64	0
MABS	76	107	31.52	-1.68	0.10	0.49	0	105	32.59	-1.35	0.08	0.58	0

"Region"; WGOM is the Western Gulf of Maine; EGOM is the Eastern Gulf of Maine; GB is Georges Bank; MABN is the northern Mid-Atlantic Bight; MABS is the southern Mid-Atlantic Bight;

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

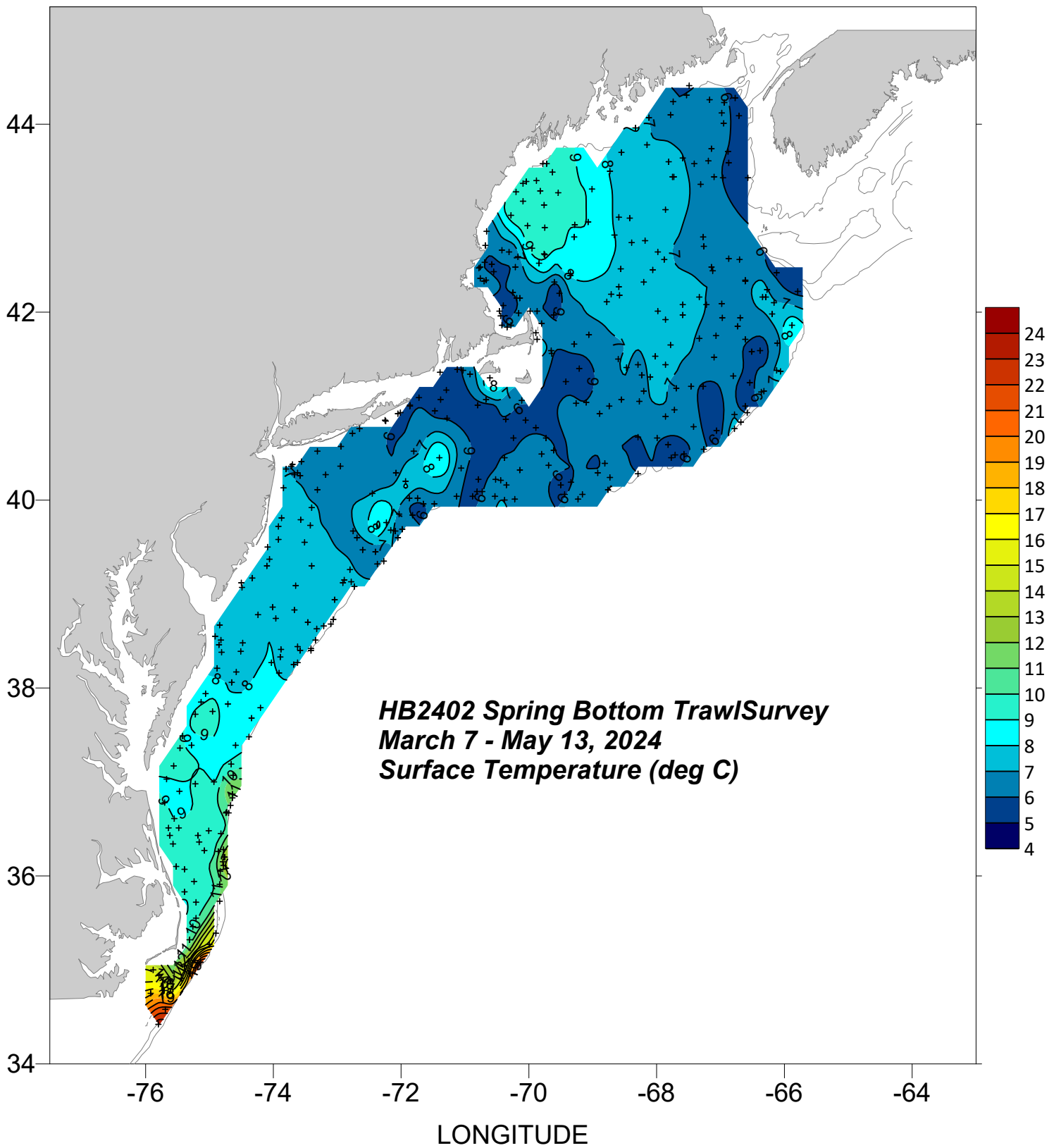
"#obs": the number of observations include in each average;

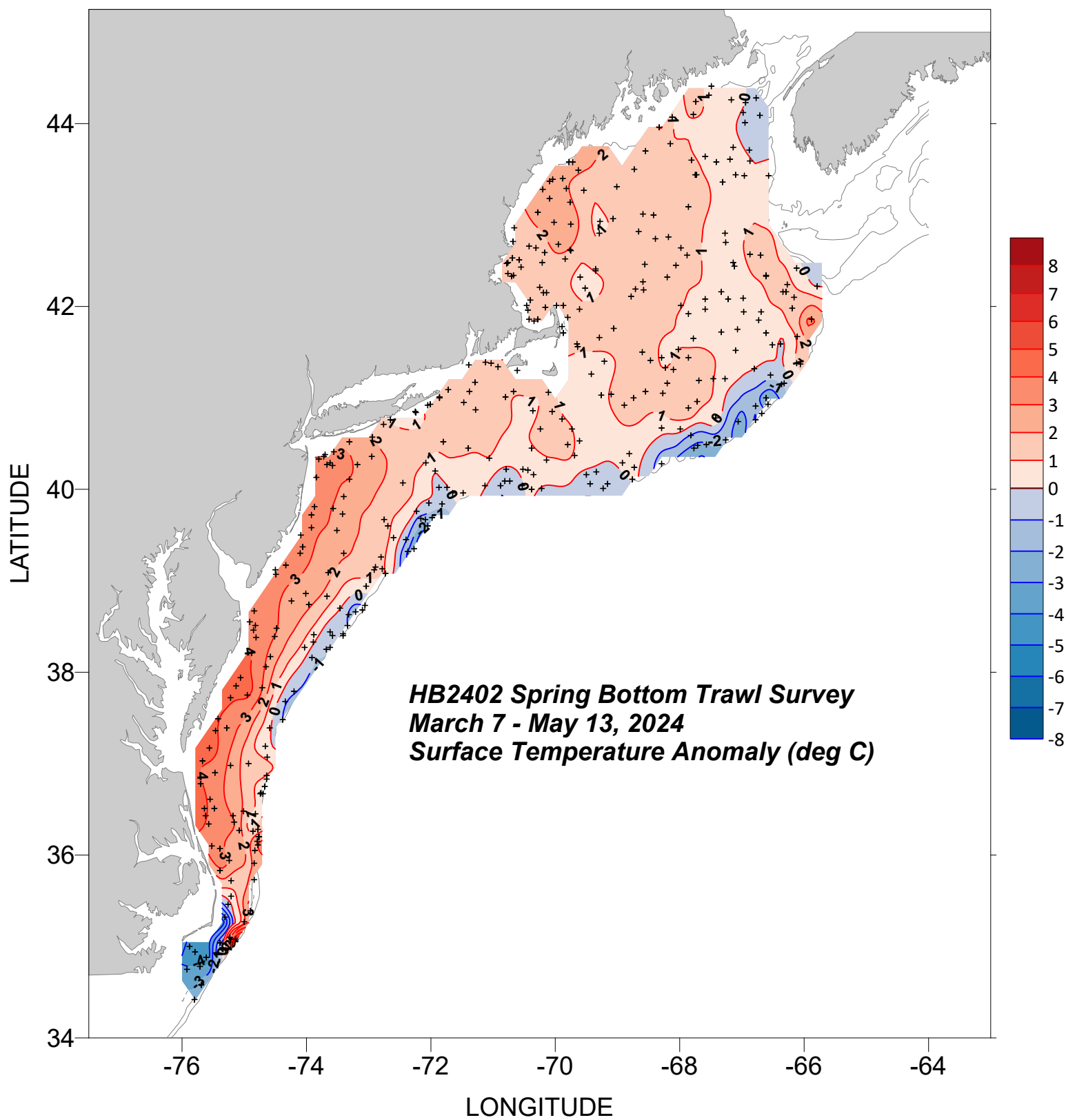
"Temp (°C)" and "Salinity": the areal averaged temperature or salinity; "Anomaly": the areal averaged temp/salt anomaly;

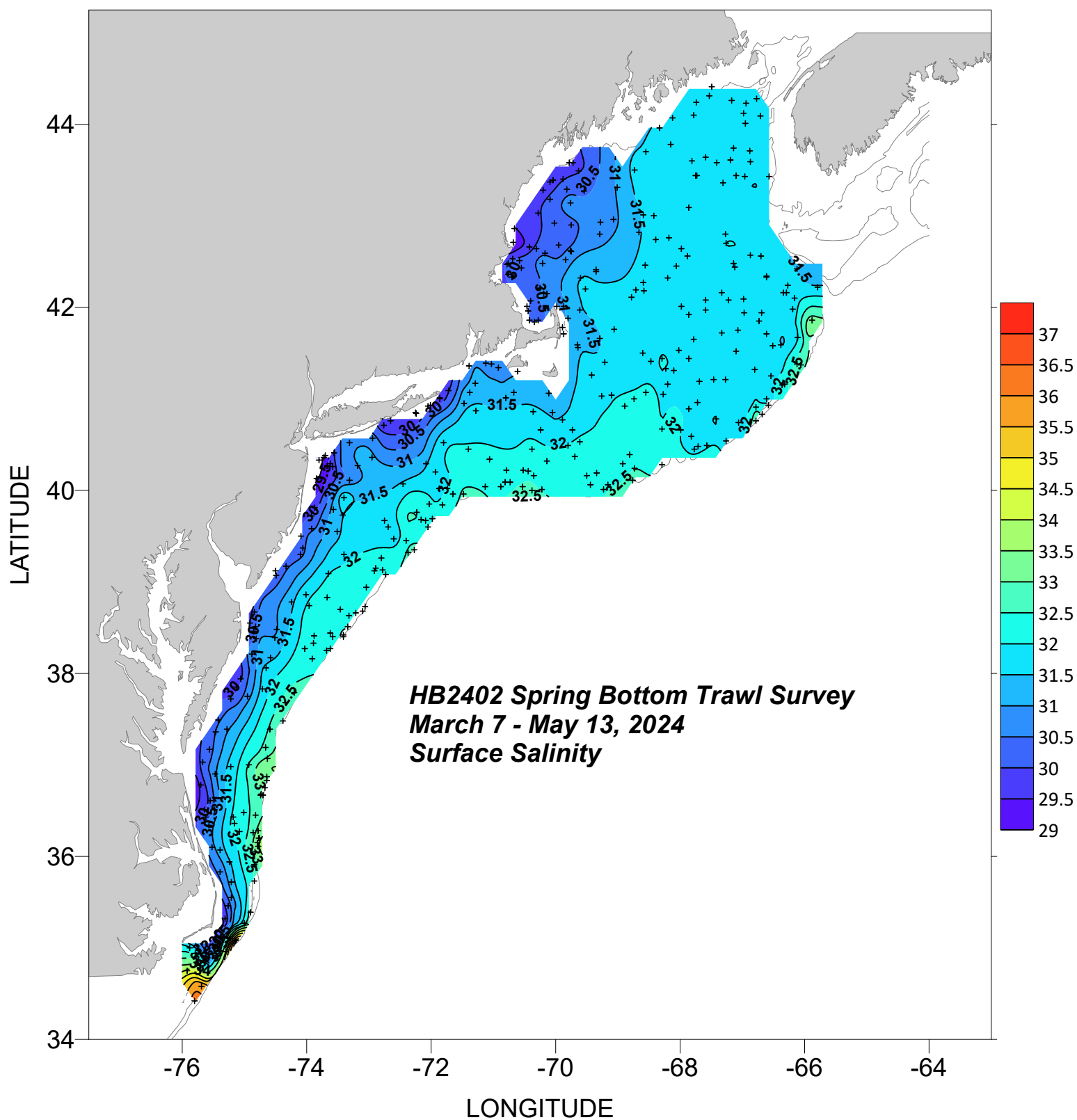
"SDV1": the standard deviation associated with the average temp/salt anomaly;

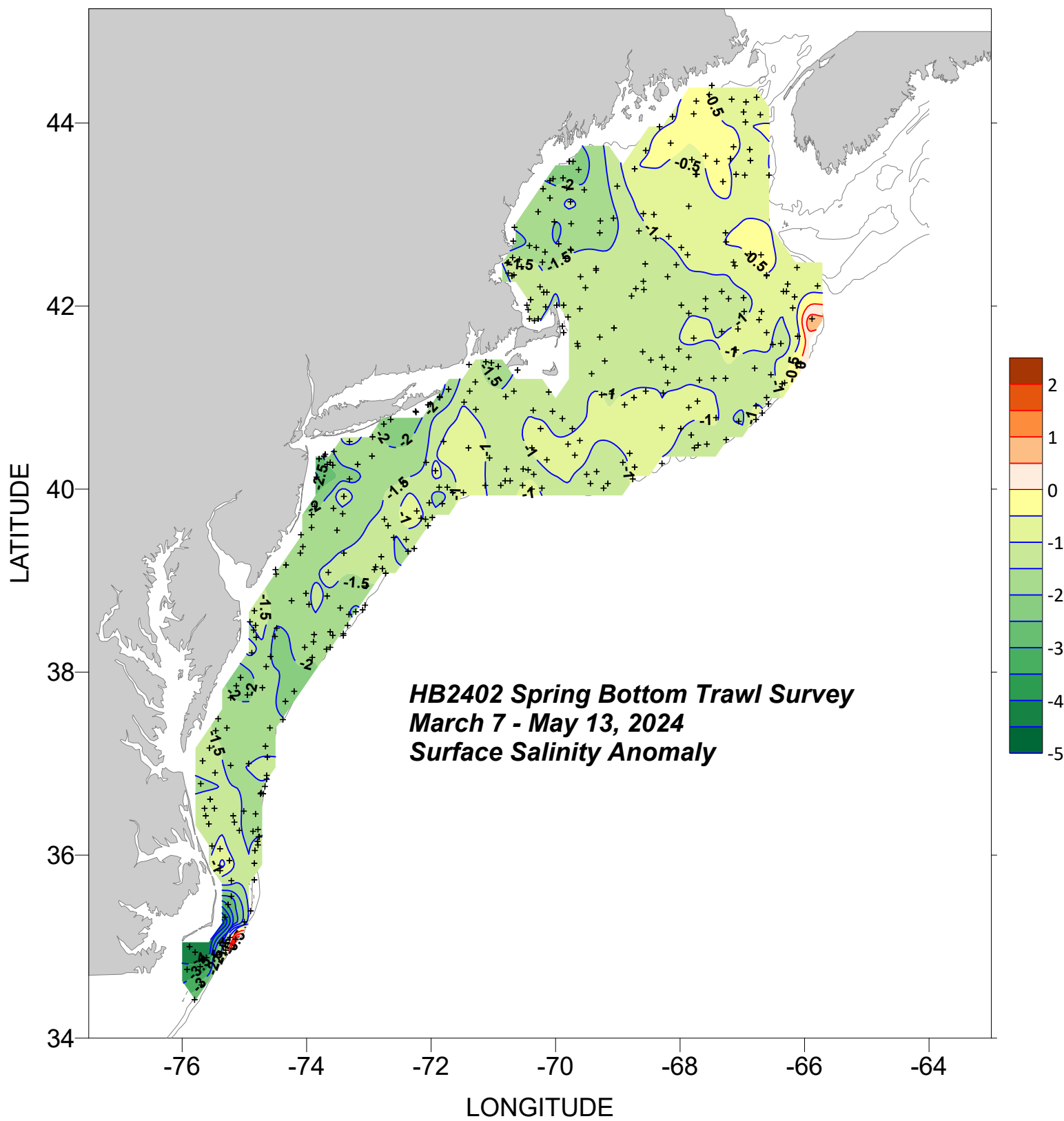
"SDV2": the standard deviation of the individual anomalies from which the average anomaly was derived;

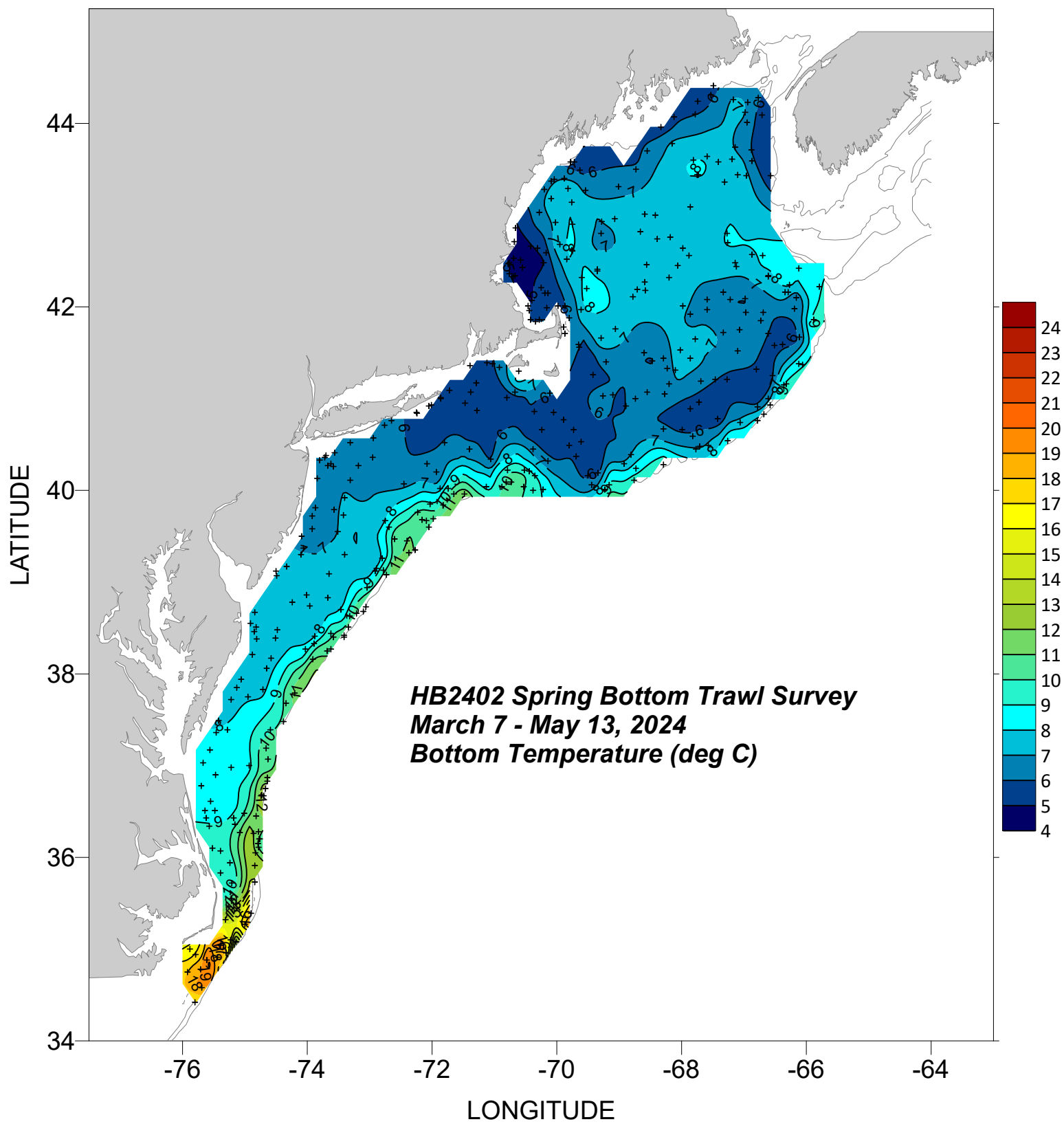
"Flag": a value of "1" indicates that a true areal average could not be calculated due to poor station coverage. The areal averages listed were derived from a simple average of the observations within the region.

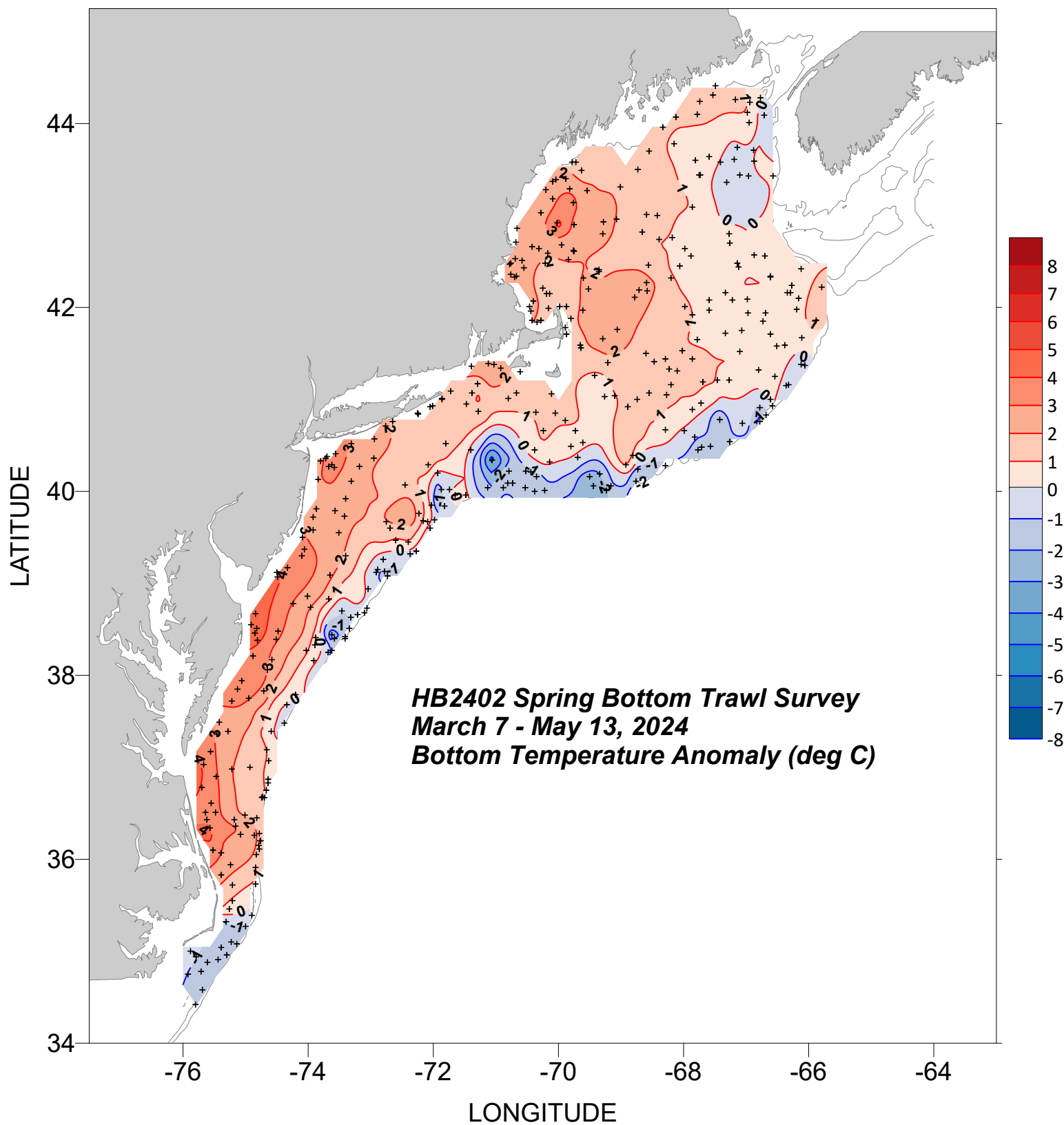


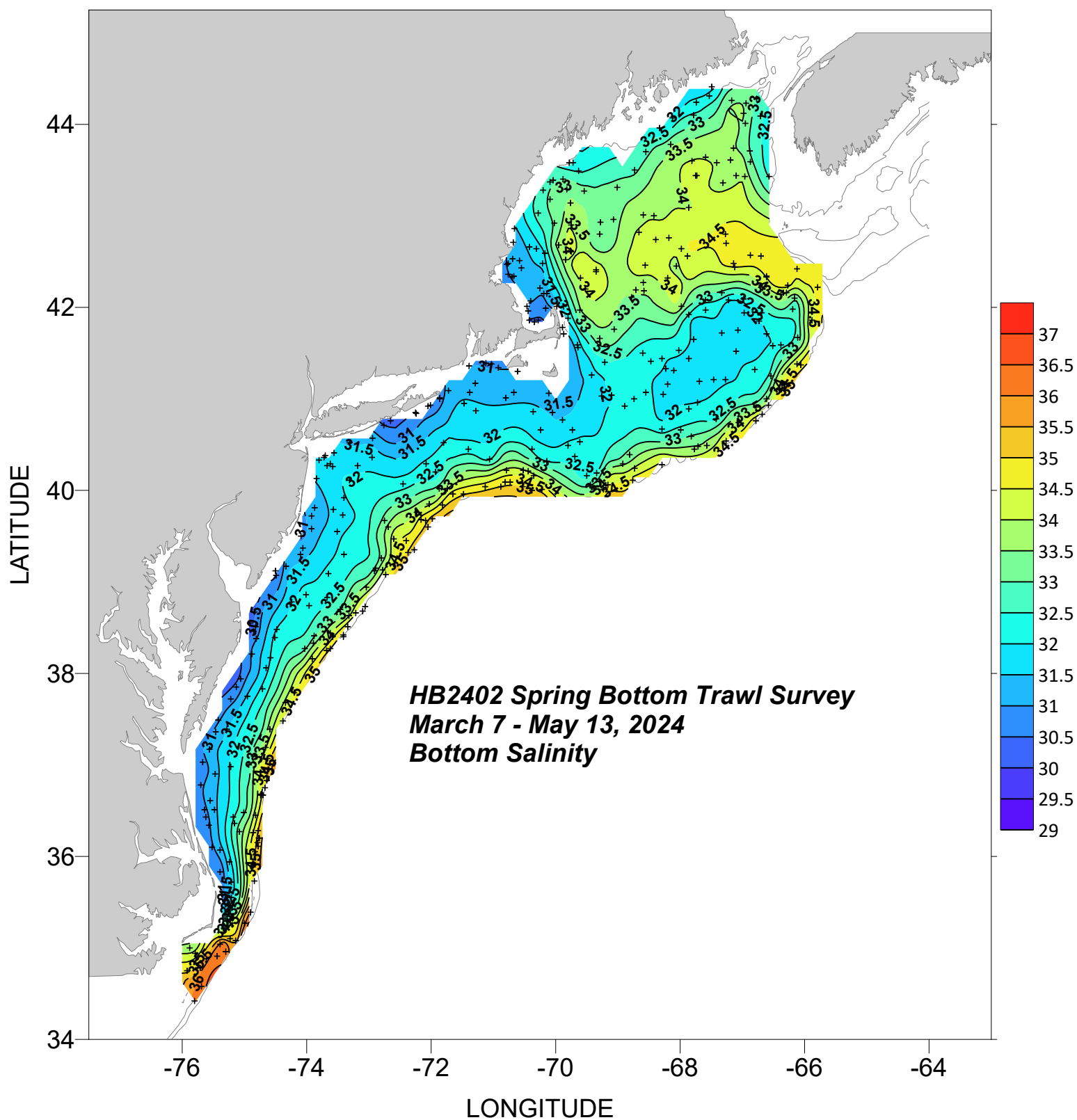


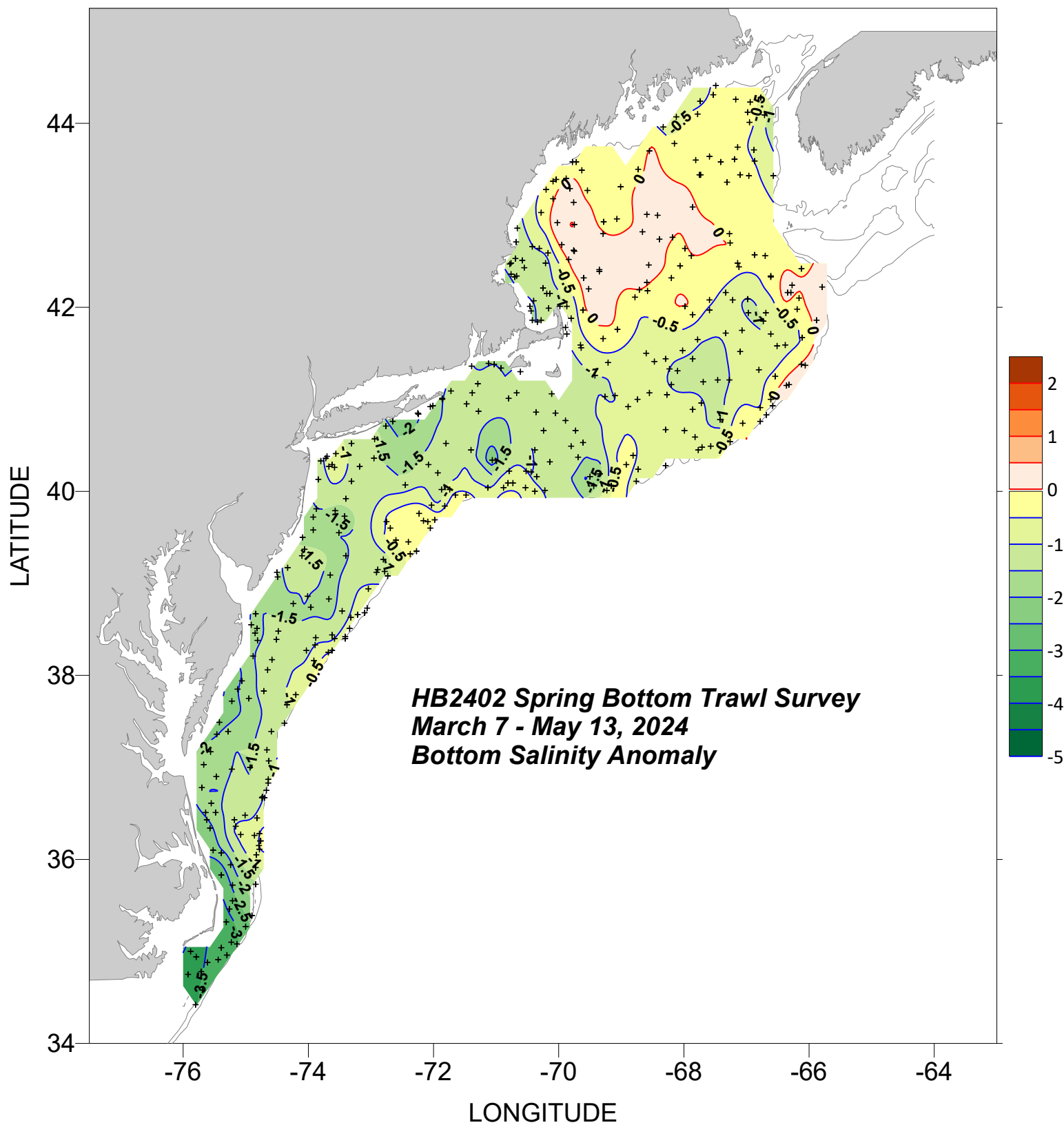












HB2402 Spring Bottom Trawl Survey
March 7 - May 13, 2024

Cast	Site ID	Lat	Long	Day	Mo	Year	Time	Btm	Sfc	Sfc	Deepest Observed	Deepest Observed	Meters from	Method of
#	#	(DDMM.M)	(DDMM.M)				(GMT)	Depth (m)	Temp (° C)	Salt	Temp (° C)	Salt	Bottom	Deployment
1	9742	3840.3	7450.7	7	3	2024	15:17	24	7.21	30.58	7.15	30.65	5	V
2	9314	3828.8	7428.6	7	3	2024	19:06	38	7.54	30.95	7.36	32.05	3	W
1	9350	3823.2	7430.8	7	3	2024	21:50	38	7.65	30.98	7.40	32.10	4	B
3	9358	3830.3	7449.4	8	3	2024	0:55	25	7.39	30.75	7.09	30.78	3	V
4	9190	3832.8	7454.9	8	3	2024	3:29	20	7.14	29.28	7.20	29.73	4	V
5	9170	3827.6	7450.9	8	3	2024	5:08	20	7.19	30.62	7.20	30.63	4	V
6	9386	3822.6	7448.8	8	3	2024	7:05	23	7.37	30.79	7.27	30.81	6	V
7	9311	3812.7	7452.7	8	3	2024	9:28	23	7.50	30.99	7.44	31.21	3	V
2	9179	3810.1	7434.8	8	3	2024	12:38	40	7.72	31.32	7.47	32.08	5	B
3	9399	3803.7	7438.9	8	3	2024	14:49	32	7.92	31.72	7.40	31.76	6	B
4	9387	3749.9	7442.4	8	3	2024	17:12	43	8.05	31.69	7.71	32.11	4	B
8	9482	3747.5	7412.1	8	3	2024	21:15	116	8.42	32.64	11.81	34.54	3	V
5	9208	3740.6	7420.6	8	3	2024	23:46	95	8.42	32.70	10.14	33.79	4	B
6	9197	3728.5	7422.5	9	3	2024	2:28	276	8.37	32.68	9.93	35.20	2	W
7	9117	3723.2	7435.2	9	3	2024	5:23	86	8.50	32.68	9.89	33.47	6	B
9	9281	3711.2	7439.8	9	3	2024	8:05	89	8.92	32.48	10.81	33.79	3	V
10	9385	3704.2	7437.9	9	3	2024	10:06	229	10.47	33.16	10.81	35.31	1	V
8	9458	3700.0	7455.7	9	3	2024	13:12	47	8.75	32.59	8.68	32.67	5	B
11	9296	3649.6	7438.4	9	3	2024	16:04	313	11.22	33.16	8.40	35.10	2	V
12	9464	3651.9	7438.7	9	3	2024	18:48	211	13.30	33.92	11.43	35.37	3	V
13	9174	3645.0	7440.1	9	3	2024	21:15	131	12.04	33.47	13.10	34.74	3	W
9	9272	3654.1	7528.1	10	3	2024	5:22	26	8.34	31.14	8.32	31.17	5	B
14	9303	3701.7	7540.5	10	3	2024	8:10	19	8.49	30.28	8.50	30.74	4	V
10	9356	3646.7	7542.1	10	3	2024	11:33	23	9.17	29.22	8.27	30.95	5	B
11	9226	3636.4	7533.1	10	3	2024	13:45	23	8.95	30.44	8.40	31.31	4	B
15	9472	3630.4	7529.1	10	3	2024	15:59	27	8.99	30.46	8.45	31.39	3	V
16	9437	3630.7	7538.3	10	3	2024	18:44	25	9.35	29.63	8.25	30.76	3	V
17	9452	3625.6	7537.3	10	3	2024	20:40	24	9.61	30.14	8.85	30.78	4	V

HB2402 Spring Bottom Trawl Survey
March 7 - May 13, 2024

Cast	Site ID	Lat	Long	Day	Mo	Year	Time	Btm	Sfc	Sfc	Deepest Observed	Deepest Observed	Meters from	Method of
#	#	(DDMM.M)	(DDMM.M)				(GMT)	Depth (m)	Temp (° C)	Salt	Temp (° C)	Salt	Bottom	Deployment
18	9299	3620.3	7534.1	10	3	2024	23:33	27	9.46	30.78	9.19	30.93	4	W
19	9309	3605.8	7530.9	11	3	2024	12:32	26	9.02	30.84	9.03	30.84	4	V
12	9237	3604.1	7523.6	11	3	2024	14:13	30	8.99	31.33	9.01	31.35	4	B
20	9127	3556.6	7514.4	11	3	2024	17:55	34	9.19	31.50	9.07	31.63	5	V
21	9371	3549.7	7523.6	11	3	2024	20:12	28	9.26	30.52	9.20	30.68	4	V
13	9375	3543.3	7512.9	11	3	2024	22:22	39	9.14	31.44	8.93	31.56	4	W
14	9343	3533.2	7512.8	12	3	2024	0:31	30	9.36	30.80	9.58	31.34	5	B
22	9249	3527.6	7515.3	12	3	2024	4:43	29	9.58	30.37	10.09	30.99	4	V
23	9224	3519.4	7518.3	12	3	2024	6:49	25	9.85	29.18	13.10	31.83	5	V
24	9355	3500.1	7552.7	12	3	2024	12:15	25	15.17	31.96	16.15	33.72	4	V
25	9719	3456.3	7547.6	12	3	2024	14:20	28	14.80	32.16	16.29	33.65	4	W
26	9144	3453.1	7536.7	12	3	2024	16:40	44	11.30	29.73	20.37	36.05	4	V
27	9218	3446.7	7542.7	12	3	2024	18:58	45	17.35	34.03	19.29	35.65	4	V
28	9302	3445.0	7555.5	12	3	2024	21:31	31	16.66	33.96	18.41	35.26	3	V
29	9432	3425.5	7548.1	13	3	2024	0:29	230	23.85	36.37	16.97	36.21	3	W
30	9270	3435.0	7541.5	13	3	2024	3:49	169	22.41	36.40	19.75	36.36	4	V
31	9111	3454.5	7526.2	13	3	2024	7:38	98	13.01	30.74	19.37	36.36	4	V
32	9297	3457.4	7518.1	13	3	2024	9:48	211	20.51	35.94	15.34	36.01	2	V
33	9135	3502.4	7523.2	13	3	2024	12:16	63	13.92	31.31	20.36	36.34	4	V
34	9468	3506.0	7513.8	13	3	2024	14:43	85	14.21	31.43	19.90	36.38	3	V
35	9121	3504.8	7508.2	13	3	2024	17:33	338	23.45	36.40	9.71	35.22	3	V
36	9202	3516.2	7459.9	14	3	2024	2:46	137	14.95	31.84	19.13	36.32	3	W
37	9280	3523.5	7454.2	14	3	2024	7:05	114	15.97	32.78	19.42	36.33	3	V
38	9301	3543.8	7450.6	14	3	2024	10:59	114	11.02	32.37	13.11	34.92	5	V
39	9390	3554.8	7450.4	14	3	2024	14:18	128	10.71	32.70	13.14	35.12	4	V
40	9254	3603.2	7449.8	14	3	2024	16:18	102	10.33	32.88	13.67	35.09	4	V
41	9349	3606.4	7447.0	14	3	2024	18:29	247	13.14	33.76	10.62	35.31	2	V

HB2402 Spring Bottom Trawl Survey
March 7 - May 13, 2024

Cast	Site ID	Lat	Long	Day	Mo	Year	Time	Btm	Sfc	Sfc	Deepest Observed	Deepest Observed	Meters from	Method of
#	#	(DDMM.M)	(DDMM.M)				(GMT)	Depth (m)	Temp (° C)	Salt	Temp (° C)	Salt	Bottom	Deployment
15	9421	3609.1	7447.6	14	3	2024	20:37	147	14.83	34.11	12.83	35.57	4	W
16	9173	3612.0	7446.0	14	3	2024	22:38	335	13.92	33.45	11.23	35.48	133	B
17	9173	3612.1	7445.8	14	3	2024	23:21	398	13.66	33.45	7.48	35.07	5	W
42	9749	3616.8	7446.9	15	3	2024	2:27	186	12.05	33.29	11.83	35.38	4	V
43	9320	3615.4	7451.3	15	3	2024	4:29	85	10.11	32.75	13.16	34.46	3	V
18	9450	3616.4	7504.5	15	3	2024	6:38	41	9.32	31.95	11.07	33.18	6	B
19	9219	3621.4	7509.3	15	3	2024	8:41	34	10.22	32.53	9.80	32.74	4	B
44	9133	3625.8	7510.6	15	3	2024	10:39	33	9.81	32.20	9.25	32.46	4	V
45	9214	3628.5	7500.5	15	3	2024	13:40	39	9.62	32.48	9.41	32.60	4	V
46	9307	3627.1	7449.2	15	3	2024	15:54	76	9.92	32.59	11.73	34.07	5	V
47	9457	3640.4	7442.2	15	3	2024	18:46	112	9.31	32.68	14.55	35.12	6	V
48	9473	3640.2	7444.6	15	3	2024	20:38	88	9.61	32.59	12.30	34.33	4	V
49	9473	3640.7	7443.9	15	3	2024	23:54	90	9.37	32.58	12.25	34.35	4	W
50	9340	3658.5	7513.2	16	3	2024	4:25	36	9.41	31.60	8.40	32.21	4	V
20	9483	3710.4	7533.5	16	3	2024	7:51	24	9.89	30.29	8.22	31.28	6	B
51	9442	3721.7	7527.8	16	3	2024	10:29	25	9.19	30.50	8.03	31.01	2	V
52	9141	3729.2	7525.5	16	3	2024	12:25	24	8.99	30.55	7.94	30.94	2	V
21	9401	3723.5	7516.7	16	3	2024	14:35	31	8.78	30.94	8.09	31.60	5	B
53	9178	3742.9	7513.5	16	3	2024	17:12	27	9.05	30.13	7.71	30.80	3	V
22	9152	3745.0	7457.2	16	3	2024	19:33	32	9.76	30.83	7.87	31.66	5	B
23	9346	3751.0	7507.9	16	3	2024	21:41	22	8.90	29.76	7.87	30.56	6	B
54	9114	3756.5	7503.8	16	3	2024	23:29	23	8.91	29.52	7.71	30.37	4	W
55	9161	3816.0	7401.8	17	3	2024	4:42	72	8.15	32.34	7.93	32.77	4	V
56	9474	3809.5	7354.5	17	3	2024	6:54	117	7.84	32.27	11.59	34.64	4	V
57	9310	3815.0	7340.7	17	3	2024	9:29	137	7.93	32.31	11.86	34.82	4	V
58	9315	3816.5	7337.2	17	3	2024	12:31	315	7.65	32.42	9.10	35.14	2	V
59	9154	3819.6	7353.2	17	3	2024	15:55	73	7.89	32.25	8.49	33.11	5	V
60	9215	3824.3	7352.7	17	3	2024	17:59	66	8.00	32.31	7.56	32.83	4	V

HB2402 Spring Bottom Trawl Survey
March 7 - May 13, 2024

Cast	Site ID	Lat	Long	Day	Mo	Year	Time	Btm	Sfc	Sfc	Deepest Observed	Deepest Observed	Meters from	Method of
#	#	(DDMM.M)	(DDMM.M)				(GMT)	Depth (m)	Temp (° C)	Salt	Temp (° C)	Salt	Bottom	Deployment
61	9232	3826.2	7337.1	17	3	2024	20:31	102	7.49	32.27	9.85	33.93	4	V
24	9308	3824.1	7334.8	17	3	2024	23:01	299	7.48	32.26	10.36	35.27	4	W
25	9139	3825.0	7324.4	18	3	2024	1:57	226	7.98	32.60	11.07	35.18	25	B
26	9139	3824.2	7324.5	18	3	2024	2:30	248	7.99	32.51	10.54	35.24	4	W
62	9341	3830.6	7320.1	18	3	2024	4:58	131	7.82	32.39	11.64	34.67	3	V
27	9479	3837.8	7319.2	18	3	2024	6:34	96	7.62	32.32	9.26	33.70	5	B
63	9388	3842.2	7327.6	18	3	2024	8:59	76	7.58	32.30	7.55	32.80	4	V
64	9283	3839.7	7312.6	18	3	2024	11:34	122	7.67	32.42	11.02	34.40	2	V
65	9337	3840.9	7306.1	18	3	2024	13:08	197	7.62	32.68	11.26	35.03	1	V
28	9153	3844.0	7303.6	18	3	2024	14:37	174	7.81	32.61	12.06	34.93	7	B
29	9198	3856.2	7302.4	18	3	2024	17:16	85	7.42	32.12	9.14	33.64	4	V
30	9451	3905.0	7243.6	18	3	2024	21:36	155	7.48	32.28	11.53	34.87	4	B
66	9339	3907.2	7254.8	19	3	2024	0:10	87	7.47	32.24	7.60	32.84	4	V
67	9149	3908.1	7247.0	19	3	2024	2:03	117	7.44	32.25	9.20	33.61	4	W
68	9180	3909.1	7253.2	19	3	2024	3:56	88	7.34	32.22	7.58	32.82	3	V
69	9391	3915.7	7248.1	19	3	2024	6:00	86	7.12	32.17	7.86	32.98	5	V
31	9405	3918.3	7324.1	19	3	2024	9:58	50	7.48	31.93	6.99	32.13	1	B
70	9363	3905.6	7339.2	19	3	2024	13:42	49	7.62	31.99	7.30	32.11	4	V
32	9410	3850.0	7340.1	19	3	2024	16:35	55	7.68	32.11	7.22	32.25	4	B
71	9276	3844.5	7357.5	19	3	2024	19:23	49	8.02	32.22	7.69	32.26	4	V
33	9125	3851.4	7400.6	19	3	2024	21:33	41	7.96	31.94	7.69	32.21	4	B
72	9354	3846.8	7414.3	19	3	2024	23:49	40	7.80	31.37	7.56	32.05	4	W
73	9199	3904.3	7429.3	20	3	2024	2:44	20	7.96	30.22	7.95	30.30	4	V
74	9229	3907.4	7429.8	20	3	2024	4:51	21	7.96	30.21	7.44	30.91	3	V
34	9239	3910.3	7419.7	20	3	2024	6:23	23	7.89	30.42	7.28	31.57	6	B
35	9322	3917.9	7406.2	20	3	2024	8:51	30	7.69	30.37	7.05	31.33	5	B
36	9446	3922.2	7403.7	20	3	2024	11:50	26	7.63	30.28	6.86	31.21	5	W
75	9441	3929.9	7405.3	20	3	2024	13:35	23	7.27	30.34	6.82	30.81	5	V

HB2402 Spring Bottom Trawl Survey
March 7 - May 13, 2024

Cast	Site ID	Lat	Long	Day	Mo	Year	Time	Btm	Sfc	Sfc	Deepest Observed	Deepest Observed	Meters from	Method of
#	#	(DDMM.M)	(DDMM.M)				(GMT)	Depth (m)	Temp (° C)	Salt	Temp (° C)	Salt	Bottom	Deployment
76	9381	3934.6	7355.5	20	3	2024	15:31	26	7.69	30.48	6.75	31.22	5	V
37	9379	3943.0	7355.4	20	3	2024	17:30	26	7.94	30.02	6.76	31.12	5	B
77	9112	3948.5	7352.4	20	3	2024	19:22	26	7.81	29.71	6.72	31.12	4	V
78	9478	3947.6	7334.2	20	3	2024	21:44	39	7.35	31.33	6.80	31.54	4	W
38	9443	3933.3	7330.3	20	3	2024	23:54	40	7.44	31.34	7.09	32.00	4	B
79	9380	4007.6	7350.6	21	3	2024	5:47	29	7.58	28.89	6.71	31.56	5	V
39	9248	4020.0	7348.1	21	3	2024	14:19	45	6.96	28.40	6.87	32.00	5	B
80	9770	4021.7	7343.2	21	3	2024	15:45	26	6.74	29.05	6.87	31.86	5	V
40	9150	4022.9	7342.1	21	3	2024	17:07	24	6.80	29.08	6.86	31.86	5	B
81	9317	4024.3	7333.9	21	3	2024	19:33	28	6.80	30.47	6.87	31.75	4	V
82	9242	4017.2	7337.2	21	3	2024	21:41	29	6.78	29.66	7.07	31.94	4	V
83	9328	4016.5	7340.4	21	3	2024	22:39	27	6.89	28.86	7.04	32.05	4	W
41	9305	4015.4	7334.9	22	3	2024	0:29	29	6.72	29.68	7.02	31.98	4	B
42	9168	3944.0	7325.0	22	3	2024	4:23	35	7.07	31.49	7.10	31.51	5	B
43	9326	3955.0	7324.0	22	3	2024	6:25	45	7.03	31.99	7.05	32.02	4	B
44	9476	4006.6	7318.3	22	3	2024	9:12	41	6.94	30.33	6.86	32.06	5	W
84	9368	4016.5	7311.0	22	3	2024	11:40	40	6.69	31.08	6.89	31.93	3	V
85	9378	4031.4	7318.5	22	3	2024	14:03	26	6.18	31.05	6.41	31.37	4	V
86	9261	4034.3	7256.7	22	3	2024	16:40	25	6.13	30.88	6.43	31.36	3	W
87	9412	4021.4	7256.8	22	3	2024	21:36	43	7.09	31.07	6.83	31.81	4	W
88	9192	3940.4	7244.8	2	4	2024	2:21	75	6.76	31.66	7.91	33.16	3	W
45	9203	3935.9	7241.6	2	4	2024	5:04	73	6.95	31.87	9.26	33.84	4	B
89	9455	3928.1	7236.1	2	4	2024	7:36	95	6.66	31.70	10.72	34.32	3	V
90	9449	3926.7	7224.1	2	4	2024	10:36	128	6.16	32.23	11.48	34.59	2	V
91	9221	3919.4	7222.2	2	4	2024	14:10	157	6.62	32.60	11.45	35.06	4	V
92	9244	3921.0	7216.1	2	4	2024	15:46	235	6.79	32.65	9.73	35.21	1	V
46	9477	4004.2	7227.2	2	4	2024	22:41	64	6.61	31.53	6.30	32.17	5	B
47	9428	4017.7	7204.9	3	4	2024	2:21	63	6.07	31.33	6.17	32.15	5	W

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Cast	Site ID	Lat	Long	Day	Mo	Year	Time	Btm	Sfc	Sfc	Deepest Observed	Deepest Observed	Meters from	Method of
#	#	(DDMM.M)	(DDMM.M)				(GMT)	Depth (m)	Temp (° C)	Salt	Temp (° C)	Salt	Bottom	Deployment
48	9289	4031.2	7148.2	3	4	2024	5:56	68	6.23	32.05	6.08	32.15	4	B
93	9241	4105.5	7143.3	3	4	2024	10:41	54	6.09	29.83	5.61	31.49	4	V
94	9204	4121.4	7123.6	4	4	2024	16:25	35	5.55	30.93	5.50	30.95	4	W
95	9286	4123.1	7107.3	4	4	2024	19:47	25	5.75	30.94	5.62	31.00	4	V
49	9267	4122.7	7101.9	4	4	2024	21:45	23	6.04	30.55	5.81	30.84	5	B
50	9416	4120.6	7055.4	4	4	2024	23:45	32	6.00	30.63	5.69	30.99	4	B
96	9172	4104.2	7040.1	5	4	2024	4:52	45	5.51	31.30	5.55	31.32	2	V
51	9433	4100.6	7048.2	5	4	2024	7:01	50	5.69	31.27	5.60	31.39	3	W
52	9318	4110.1	7117.3	5	4	2024	11:30	49	5.48	31.26	5.50	31.28	4	B
53	9415	4104.2	7122.8	5	4	2024	13:18	41	5.38	31.23	5.40	31.36	4	B
54	9279	4052.0	7116.6	5	4	2024	16:00	57	5.68	31.59	5.62	31.64	5	B
97	9132	4056.8	7128.3	5	4	2024	18:24	54	5.47	31.46	5.40	31.54	3	V
98	9163	4100.8	7151.4	5	4	2024	21:36	23	6.08	28.76	5.81	30.49	3	V
99	9260	4059.8	7151.8	5	4	2024	22:49	25	5.91	29.69	5.79	30.56	3	V
100	9306	4055.8	7200.7	6	4	2024	0:42	28	5.96	30.08	5.79	30.74	5	V
101	9469	4055.5	7203.2	6	4	2024	2:05	28	5.99	30.15	5.79	30.80	4	V
55	9146	4050.1	7214.6	6	4	2024	3:41	34	6.08	29.41	5.84	30.69	5	B
102	9211	4050.8	7215.0	6	4	2024	5:05	32	6.05	29.46	5.87	30.59	3	V
103	9463	4045.5	7238.8	6	4	2024	7:38	24	6.19	29.55	6.19	30.14	4	W
104	9189	4042.3	7245.6	6	4	2024	9:06	25	6.20	29.44	6.25	30.39	4	V
56	9370	4001.0	7144.2	6	4	2024	16:00	96	6.00	31.65	9.22	33.93	5	B
57	9284	4001.1	7152.4	6	4	2024	17:31	91	6.02	31.94	6.71	32.73	6	B
58	9262	3951.0	7201.5	6	4	2024	20:09	107	6.30	31.85	9.68	33.96	4	W
59	9236	3940.8	7209.7	6	4	2024	23:22	126	6.23	32.35	10.93	34.60	5	B
105	9389	3940.1	7205.3	7	4	2024	1:25	149	6.18	32.33	11.05	35.19	3	V
106	9392	3941.6	7158.9	7	4	2024	3:34	195	6.18	32.26	10.75	35.18	3	W
107	9429	3950.4	7149.0	7	4	2024	6:23	186	6.01	32.12	10.51	35.12	5	V
60	9213	3957.5	7139.2	7	4	2024	9:00	108	5.69	32.31	11.43	34.77	3	B

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Cast	Site ID	Lat	Long	Day	Mo	Year	Time	Btm	Sfc	Sfc	Deepest Observed	Deepest Observed	Meters from	Method of
#	#	(DDMM.M)	(DDMM.M)				(GMT)	Depth (m)	Temp (° C)	Salt	Temp (° C)	Salt	Bottom	Deployment
108	9137	3957.4	7128.7	7	4	2024	11:46	140	6.50	32.62	11.99	34.97	3	V
109	9193	4002.6	7107.7	7	4	2024	15:57	225	6.06	32.43	8.56	35.03	3	V
110	9245	4020.7	7103.7	7	4	2024	19:29	93	6.06	32.15	5.89	32.33	3	V
111	9319	4013.0	7047.2	7	4	2024	22:44	128	5.84	32.16	9.83	34.21	5	V
112	9351	4005.2	7043.7	8	4	2024	0:57	137	5.89	32.17	10.98	34.85	3	V
61	9393	4005.1	7048.8	8	4	2024	2:57	143	5.69	32.20	11.05	34.92	4	B
62	9113	4002.5	7052.9	8	4	2024	5:48	213	5.62	32.21	9.53	35.10	5	W
113	9291	4002.2	7031.6	8	4	2024	10:43	223	6.83	32.82	10.33	35.16	4	V
114	9444	4000.1	7022.7	8	4	2024	14:20	261	7.60	33.05	8.60	35.08	4	V
115	9109	4000.4	7013.3	8	4	2024	16:57	266	6.19	32.38	9.01	35.12	2	V
116	9411	4009.9	7021.0	8	4	2024	19:36	117	6.12	32.19	9.67	34.10	6	V
63	9470	4012.4	7026.6	8	4	2024	21:38	116	6.09	32.18	9.24	34.00	3	B
117	9406	4013.0	7031.2	8	4	2024	23:32	119	6.04	32.18	9.87	34.18	6	W
64	9108	4019.4	7008.2	9	4	2024	3:09	87	6.20	32.22	5.88	32.22	4	B
65	9481	4027.0	7022.8	9	4	2024	5:28	72	6.23	32.19	6.00	32.19	5	B
66	9290	4039.8	7014.7	9	4	2024	8:01	49	5.79	31.79	5.58	31.84	4	W
67	9471	4051.7	7021.3	9	4	2024	10:14	48	5.71	31.63	5.57	31.68	5	B
118	9667	4103.4	7006.6	9	4	2024	14:36	25	5.82	31.21	5.77	31.22	4	V
119	9164	4051.0	7002.7	9	4	2024	17:17	24	5.90	31.44	5.71	31.45	5	V
68	9360	4046.3	6953.7	9	4	2024	20:16	39	5.79	31.42	5.69	31.42	5	B
69	9461	4039.6	6943.7	9	4	2024	22:29	54	5.80	31.80	5.66	31.86	6	B
120	9426	4029.6	6948.0	10	4	2024	0:58	73	6.74	32.08	5.85	32.10	4	V
121	9126	4032.1	6936.8	10	4	2024	3:03	67	5.99	32.09	5.82	32.10	4	V
70	9400	4022.3	6941.4	10	4	2024	5:21	71	6.42	32.17	5.93	32.18	5	B
71	9325	4009.6	6930.1	10	4	2024	7:51	87	5.69	32.06	5.75	32.16	4	B
122	9167	4011.4	6920.5	10	4	2024	9:37	92	6.08	32.07	5.48	32.26	3	W
72	9423	4003.6	6926.6	10	4	2024	11:50	101	5.69	32.07	5.91	32.70	4	B
123	9107	4000.3	6913.6	10	4	2024	14:47	194	6.43	32.49	9.88	35.06	3	V

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Cast	Site ID	Lat	Long	Day	Mo	Year	Time	Btm	Sfc	Sfc	Deepest Observed	Deepest Observed	Meters from	Method of
#	#	(DDMM.M)	(DDMM.M)				(GMT)	Depth (m)	Temp (° C)	Salt	Temp (° C)	Salt	Bottom	Deployment
124	9327	4003.4	6909.6	10	4	2024	16:52	156	6.37	32.46	10.09	34.80	2	V
125	9175	4006.8	6845.5	10	4	2024	20:16	181	7.25	32.76	9.25	34.71	4	V
126	9258	4014.5	6843.7	10	4	2024	22:37	117	6.63	32.40	8.88	34.08	2	V
127	9140	4017.7	6855.1	11	4	2024	0:45	100	5.90	32.13	6.96	33.28	3	V
73	9359	4023.6	6848.8	11	4	2024	3:09	85	6.20	32.25	6.71	33.15	6	B
74	9417	4017.0	6817.3	11	4	2024	7:13	194	5.86	32.33	10.17	34.90	4	B
75	9255	4040.1	6817.1	11	4	2024	11:40	75	5.71	31.98	5.71	32.00	4	B
128	9166	4055.0	6853.2	11	4	2024	18:14	73	6.11	32.14	6.05	32.15	2	V
129	9251	4102.7	6906.0	11	4	2024	22:18	81	5.69	31.90	5.65	31.93	5	V
130	9383	4124.0	6912.6	12	4	2024	1:42	145	5.46	31.57	6.24	32.45	5	V
131	9465	4115.7	6925.3	12	4	2024	5:57	47	5.33	31.63	5.33	31.66	6	W
132	9183	4151.5	7016.7	12	4	2024	18:22	30	5.86	30.40	5.67	30.48	5	V
133	9131	4150.5	7020.4	12	4	2024	21:39	28	5.94	30.32	5.75	30.44	4	V
134	9212	4151.6	7025.5	12	4	2024	23:10	29	5.86	30.37	5.69	30.41	6	V
135	9222	4159.2	7009.5	13	4	2024	1:48	29	6.29	30.43	6.30	30.44	7	V
136	9447	4157.7	7026.7	13	4	2024	4:05	40	5.71	30.43	5.14	30.81	3	V
137	9329	4200.9	7027.7	13	4	2024	5:48	45	5.54	30.44	4.99	30.94	4	V
138	9282	4204.4	7024.2	13	4	2024	7:37	59	5.60	30.50	4.90	31.06	4	V
139	9235	4208.8	7011.3	13	4	2024	10:00	47	5.80	30.68	5.11	31.59	4	W
140	9269	4209.2	7008.7	13	4	2024	12:21	47	5.85	30.65	5.15	31.51	4	V
141	9293	4212.6	7015.1	13	4	2024	14:22	25	6.04	30.39	5.32	30.80	4	V
142	9431	4225.9	7032.8	13	4	2024	17:52	56	6.28	30.11	4.89	31.38	4	V
143	9394	4220.2	7040.2	13	4	2024	20:01	59	6.54	30.09	4.85	31.10	3	V
144	9266	4219.6	7042.1	13	4	2024	23:07	44	6.29	30.09	4.85	31.09	4	V
145	9332	4221.7	7045.3	14	4	2024	1:17	24	6.57	29.81	5.71	30.35	5	V
146	9148	4228.4	7046.7	14	4	2024	3:10	41	6.23	30.21	4.86	31.08	5	V
147	9288	4229.0	7045.5	14	4	2024	4:46	44	6.10	30.26	4.87	31.10	5	V

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Cast	Site ID	Lat	Long	Day	Mo	Year	Time	Btm	Sfc	Sfc	Deepest Observed	Deepest Observed	Meters from	Method of
#	#	(DDMM.M)	(DDMM.M)				(GMT)	Depth (m)	Temp (° C)	Salt	Temp (° C)	Salt	Bottom	Deployment
76	9331	4232.0	7041.6	14	4	2024	6:47	51	5.81	30.33	4.86	31.25	5	B
77	9298	4230.7	7035.0	14	4	2024	9:36	74	5.62	30.46	4.87	31.41	6	W
148	9223	4242.8	7040.6	14	4	2024	13:59	31	6.16	28.70	4.87	31.21	5	V
149	9480	4251.5	7039.5	14	4	2024	16:06	60	5.69	29.56	4.81	31.42	4	V
150	9366	4239.3	7025.2	14	4	2024	20:06	55	6.23	29.83	4.90	31.55	3	V
151	9196	4238.5	7018.9	14	4	2024	21:45	83	6.08	30.19	5.22	31.81	4	V
152	9425	4235.7	7010.2	15	4	2024	0:26	76	6.12	30.45	5.16	31.77	4	V
78	9413	4229.0	7012.7	15	4	2024	4:12	72	6.06	30.74	5.01	31.64	4	B
153	9419	4219.2	6936.2	15	4	2024	8:42	244	5.58	31.63	8.14	34.16	2	W
154	9187	4211.8	6931.4	15	4	2024	11:33	227	5.64	31.63	8.18	34.04	5	V
155	9186	4158.3	6936.9	15	4	2024	14:29	208	5.82	31.46	8.00	33.73	5	V
156	9404	4200.5	6952.0	15	4	2024	17:15	84	6.22	30.99	5.34	31.86	4	V
79	9395	4200.6	6958.9	15	4	2024	19:24	34	6.54	30.66	5.59	31.06	5	B
157	9209	4152.5	6947.8	16	4	2024	0:02	108	6.12	31.09	5.71	32.14	3	V
158	9454	4146.9	6953.4	16	4	2024	2:25	25	6.56	30.82	5.88	30.97	4	V
159	9536	4135.6	6938.9	16	4	2024	5:43	48	6.31	31.35	5.24	31.67	4	V
160	9231	4133.9	6938.7	16	4	2024	9:26	39	5.71	31.58	5.45	31.64	4	V
80	9195	4139.6	6917.3	16	4	2024	12:42	184	6.47	31.39	7.75	33.36	4	B
81	9436	4145.5	6903.5	16	4	2024	16:15	179	6.50	31.76	7.75	33.38	5	W
161	9382	4129.9	6836.2	16	4	2024	21:03	105	6.74	31.76	5.90	32.22	3	V
162	9200	4124.6	6828.1	17	4	2024	0:04	79	7.33	31.92	5.96	32.05	4	V
82	9227	4126.2	6817.5	17	4	2024	2:46	52	6.34	32.04	6.19	32.05	6	B
163	9316	4120.0	6814.1	17	4	2024	5:15	50	6.49	32.00	6.50	32.00	4	W
83	9407	4109.3	6812.0	17	4	2024	8:04	44	6.54	31.93	6.56	31.93	4	B
84	9312	4104.1	6833.2	17	4	2024	11:34	45	6.49	32.06	6.49	32.06	5	B
164	9430	4100.2	6844.6	17	4	2024	14:44	69	6.66	32.06	6.32	32.07	5	V
85	9365	4103.3	6816.4	17	4	2024	18:47	42	6.83	31.96	6.58	31.97	3	B
86	9181	4053.5	6751.3	17	4	2024	22:20	62	7.14	31.97	5.59	32.03	4	B

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Cast	Site ID	Lat	Long	Day	Mo	Year	Time	Btm	Sfc	Sfc	Deepest Observed	Deepest Observed	Meters from	Method of
#	#	(DDMM.M)	(DDMM.M)				(GMT)	Depth (m)	Temp (° C)	Salt	Temp (° C)	Salt	Bottom	Deployment
165	9184	4039.8	6759.2	18	4	2024	0:43	85	6.81	32.18	5.35	32.54	3	W
166	9165	4035.2	6749.3	18	4	2024	2:50	90	5.08	31.65	6.10	33.02	4	V
167	9143	4047.0	6725.1	18	4	2024	5:50	89	6.49	32.02	5.26	32.48	5	V
87	9424	4057.4	6743.0	18	4	2024	8:34	63	6.42	31.99	5.66	31.99	4	B
88	9278	4112.9	6716.1	18	4	2024	11:39	56	5.79	31.89	5.69	31.89	4	B
89	9171	4112.4	6727.9	18	4	2024	13:46	46	6.19	31.87	6.06	31.87	5	W
168	9376	4111.2	6741.7	18	4	2024	15:47	50	6.57	31.84	6.34	31.84	3	V
169	9372	4026.8	6746.3	26	4	2024	7:32	141	5.89	31.96	7.16	33.68	3	V
170	9344	4028.9	6742.9	26	4	2024	9:34	167	5.91	31.97	7.01	33.61	4	W
90	9438	4029.4	6734.3	26	4	2024	12:12	137	5.85	31.95	6.90	33.60	4	B
171	9459	4032.7	6715.5	26	4	2024	15:39	145	6.11	31.94	9.11	34.69	4	V
91	9467	4044.4	6703.8	26	4	2024	18:24	103	5.17	31.31	7.44	33.89	5	B
172	9402	4054.5	6646.6	26	4	2024	21:36	95	6.76	32.24	5.80	33.06	4	V
173	9225	4045.6	6646.7	26	4	2024	23:52	227	7.70	32.89	8.37	34.94	2	V
92	9128	4049.6	6640.9	27	4	2024	2:15	195	8.01	32.99	8.74	34.98	7	B
93	9145	4055.7	6634.6	27	4	2024	4:53	141	5.43	31.66	8.98	34.65	4	W
94	9330	4100.1	6636.7	27	4	2024	6:54	88	5.50	31.94	5.88	33.00	4	B
95	9364	4119.2	6647.8	27	4	2024	10:12	74	6.14	31.66	6.01	32.12	4	B
96	9240	4115.1	6632.6	27	4	2024	12:51	90	6.07	31.78	5.47	32.54	4	B
97	9256	4109.0	6621.9	27	4	2024	15:45	124	5.75	32.02	9.60	34.89	4	V
98	9361	4109.7	6619.3	27	4	2024	17:44	155	6.48	32.49	9.40	34.94	6	B
174	9422	4122.8	6607.2	27	4	2024	21:36	144	7.23	32.66	8.74	34.53	3	V
175	9230	4122.2	6603.8	27	4	2024	23:36	214	7.67	33.02	8.94	34.94	2	V
99	9439	4140.3	6606.7	28	4	2024	3:00	97	6.56	31.90	5.70	32.43	4	B
176	9285	4135.3	6622.6	28	4	2024	6:16	87	5.39	31.34	5.55	32.23	4	W
100	9123	4134.5	6630.6	28	4	2024	8:28	83	5.73	31.69	5.75	31.98	4	B
101	9118	4142.3	6636.5	28	4	2024	10:33	63	6.12	32.03	6.12	32.03	3	V
102	9448	4151.1	6643.9	28	4	2024	12:26	66	6.19	31.97	6.16	31.98	6	B

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Cast	Site ID	Lat	Long	Day	Mo	Year	Time	Btm	Sfc	Sfc	Deepest Observed	Deepest Observed	Meters from	Method of
#	#	(DDMM.M)	(DDMM.M)				(GMT)	Depth (m)	Temp (° C)	Salt	Temp (° C)	Salt	Bottom	Deployment
103	9295	4156.5	6641.3	28	4	2024	14:19	69	6.24	31.97	6.07	31.96	5	B
104	9352	4209.4	6620.5	28	4	2024	17:04	187	7.89	31.88	7.87	34.48	4	B
177	9124	4209.3	6617.3	28	4	2024	19:26	186	6.43	31.89	7.84	34.51	3	V
178	9273	4214.2	6615.9	28	4	2024	21:43	214	7.26	31.95	8.29	34.78	3	V
179	9440	4206.0	6609.6	29	4	2024	0:19	95	7.34	31.89	6.10	32.92	3	V
180	9151	4158.9	6611.6	29	4	2024	2:36	89	6.94	31.77	5.90	32.41	2	V
181	9367	4151.6	6552.6	29	4	2024	5:45	122	9.18	33.57	9.78	34.60	5	V
182	9466	4213.4	6547.1	29	4	2024	9:29	223	5.18	31.27	8.93	34.87	3	W
183	9408	4225.4	6607.4	29	4	2024	13:04	245	5.46	31.37	8.51	34.84	4	V
105	9265	4220.0	6636.3	29	4	2024	16:11	298	6.66	31.92	7.99	34.81	94	B
106	9265	4220.2	6636.9	29	4	2024	16:50	297	6.62	31.92	7.90	34.81	5	V
184	9157	4233.7	6642.1	29	4	2024	20:24	237	6.96	31.86	8.29	34.80	6	V
185	9134	4234.4	6652.0	29	4	2024	23:36	263	6.94	32.13	8.01	34.78	3	V
186	9243	4248.3	6716.4	30	4	2024	8:41	212	6.61	31.87	8.11	34.64	3	W
107	9159	4241.8	6715.5	30	4	2024	11:31	205	6.63	32.11	8.11	34.72	3	B
187	9264	4228.6	6708.6	30	4	2024	14:27	343	5.86	31.61	7.62	34.86	1	V
188	9357	4226.3	6707.4	30	4	2024	17:04	378	6.66	31.83	7.63	34.86	2	V
189	9287	4209.3	6719.7	30	4	2024	21:39	154	7.59	31.73	6.63	33.02	5	V
108	9445	4204.7	6713.3	30	4	2024	23:47	48	6.99	31.79	5.99	31.92	3	B
190	9250	4205.6	6658.7	1	5	2024	2:16	60	6.44	31.83	5.82	32.02	3	V
191	9347	4156.1	6658.2	1	5	2024	4:58	67	6.51	31.95	6.51	31.95	5	V
109	9456	4145.2	6704.1	1	5	2024	7:46	57	6.58	31.98	6.59	31.98	6	B
110	9304	4143.2	6719.9	1	5	2024	10:20	42	7.06	31.96	7.04	31.96	9	B
111	9460	4131.2	6706.2	1	5	2024	13:46	58	6.68	31.98	6.67	32.00	7	W
192	9510	4118.6	6806.2	1	5	2024	20:23	41	7.55	31.89	7.55	31.89	5	V
112	9373	4126.5	6751.8	1	5	2024	23:27	42	7.49	31.92	7.49	31.94	6	B
113	9238	4131.8	6801.0	2	5	2024	2:25	34	7.73	31.99	7.74	31.99	6	B
193	9147	4139.0	6747.0	2	5	2024	5:09	37	7.55	31.98	7.56	31.98	5	V

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Cast	Site ID	Lat	Long	Day	Mo	Year	Time	Btm	Sfc	Sfc	Deepest Observed	Deepest Observed	Meters from	Method of
#	#	(DDMM.M)	(DDMM.M)				(GMT)	Depth (m)	Temp (° C)	Salt	Temp (° C)	Salt	Bottom	Deployment
194	9334	4155.5	6751.7	2	5	2024	7:56	66	6.72	31.96	6.40	32.00	3	V
195	9110	4158.3	6735.4	2	5	2024	10:02	47	6.91	31.94	6.88	31.94	5	W
196	9194	4204.5	6735.2	2	5	2024	12:13	120	7.14	31.69	6.50	32.68	3	W
114	9155	4200.8	6758.8	2	5	2024	15:06	191	8.01	31.71	7.60	34.20	5	B
197	9259	4210.6	6834.8	2	5	2024	20:46	173	7.85	31.70	7.81	33.51	3	V
115	9185	4206.9	6846.6	3	5	2024	0:25	168	7.54	31.72	7.44	33.19	4	B
198	9210	4211.6	6842.6	3	5	2024	2:38	202	7.64	31.54	7.91	33.91	4	V
199	9418	4216.3	6835.2	3	5	2024	5:37	158	7.62	31.49	7.82	33.63	2	V
116	9348	4227.6	6833.6	3	5	2024	8:16	201	7.82	31.70	7.73	34.41	1	B
117	9377	4219.2	6812.0	3	5	2024	12:13	193	7.21	31.66	7.65	34.15	3	W
118	9321	4227.0	6803.5	3	5	2024	14:48	167	7.54	31.63	7.61	33.79	4	B
200	9115	4233.8	6753.0	3	5	2024	18:19	227	6.95	31.70	7.74	34.69	3	V
119	9263	4238.3	6759.0	3	5	2024	20:30	189	7.27	31.71	7.75	34.38	4	B
120	9362	4245.7	6810.7	4	5	2024	0:49	177	7.58	31.71	7.58	34.06	5	B
121	9268	4244.6	6823.4	4	5	2024	3:58	192	7.70	31.71	7.68	34.17	4	B
201	9257	4249.2	6839.3	4	5	2024	7:51	206	7.98	31.44	7.78	34.09	3	V
202	9246	4300.5	6835.4	4	5	2024	11:31	187	7.69	31.59	7.86	33.96	5	W
203	9453	4259.9	6825.5	4	5	2024	14:02	195	7.04	31.72	7.65	33.93	3	V
204	9323	4305.5	6751.7	4	5	2024	18:09	192	7.37	31.75	7.55	33.95	5	V
122	9398	4326.1	6743.7	4	5	2024	21:39	247	7.42	31.79	8.17	34.13	46	B
123	9398	4326.1	6745.0	4	5	2024	22:10	248	7.46	31.61	8.14	34.12	4	V
205	9475	4336.1	6748.4	5	5	2024	1:45	240	7.36	31.67	8.11	34.10	4	V
206	9414	4338.7	6735.4	5	5	2024	4:14	235	7.04	31.86	8.06	34.06	3	V
207	9201	4334.6	6724.3	5	5	2024	6:47	218	6.72	31.99	7.54	33.97	3	V
208	9160	4321.6	6718.8	5	5	2024	9:58	195	6.74	31.86	7.13	33.72	1	V
124	9434	4326.4	6706.2	5	5	2024	12:06	183	6.43	31.95	7.72	34.12	4	B
125	9182	4325.7	6657.4	5	5	2024	14:36	207	5.84	31.22	7.57	34.01	1	W
209	9565	4325.8	6634.1	5	5	2024	18:01	105	5.35	31.69	5.04	32.17	5	V

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#	#	(DDMM.M)	(DDMM.M)				(GMT)	Depth (m)	Temp (° C)	Salt	Temp (° C)	Salt	Bottom	Deployment
210	9274	4335.3	6652.4	5	5	2024	21:37	147	5.85	31.65	6.14	33.13	4	V
211	9420	4342.5	6652.6	6	5	2024	1:18	156	5.89	31.70	5.84	32.93	3	V
212	9158	4336.5	6711.1	6	5	2024	3:56	193	6.07	31.70	7.27	33.80	3	V
126	9188	4344.5	6708.3	6	5	2024	6:40	174	6.78	31.98	6.98	33.61	3	B
213	9342	4400.9	6656.9	6	5	2024	9:30	169	6.33	31.96	6.86	33.45	2	W
214	9228	4407.3	6658.8	6	5	2024	11:36	161	6.38	31.99	7.09	33.55	3	V
127	9177	4405.4	6642.5	6	5	2024	15:03	117	5.61	31.90	5.19	32.25	4	B
215	9275	4416.7	6645.9	6	5	2024	18:20	184	5.61	31.70	6.28	33.11	5	V
216	9116	4413.8	6656.1	6	5	2024	20:47	172	6.40	31.93	6.87	33.44	4	V
217	9313	4415.7	6710.3	7	5	2024	0:18	168	6.28	31.75	7.29	33.58	3	V
218	9122	4424.9	6729.3	7	5	2024	4:03	92	5.98	31.56	5.65	31.68	4	V
219	9336	4418.8	6731.7	7	5	2024	6:37	100	5.84	31.64	5.55	32.12	3	V
220	9271	4414.1	6744.3	7	5	2024	9:03	106	5.93	31.61	5.55	31.99	4	W
221	9427	4406.0	6746.7	7	5	2024	12:16	132	6.61	31.89	5.86	32.69	3	V
222	9207	4404.3	6807.1	7	5	2024	14:57	104	6.50	31.59	5.42	31.99	5	V
223	9397	4346.9	6809.0	7	5	2024	18:54	168	7.27	31.81	7.41	33.62	3	V
128	9384	4357.5	6819.7	7	5	2024	23:16	105	8.42	31.60	5.34	31.89	5	B
224	9796	4341.8	6832.9	8	5	2024	5:35	152	7.10	31.59	6.31	32.99	3	V
129	9333	4330.0	6844.1	8	5	2024	9:19	145	7.99	31.73	6.03	32.84	6	B
130	9462	4318.5	6900.3	8	5	2024	12:52	148	8.91	31.03	6.75	33.21	4	W
225	9136	4257.4	6904.1	8	5	2024	16:33	185	9.12	30.81	7.33	33.34	1	V
131	9205	4255.9	6916.6	8	5	2024	19:38	160	8.95	30.91	7.26	33.32	6	B
132	9292	4248.2	6917.1	8	5	2024	22:20	72	8.80	30.80	5.81	32.58	3	B
226	9294	4253.9	6945.0	9	5	2024	4:12	208	9.90	30.24	8.11	34.06	2	V
227	9396	4308.6	6945.8	9	5	2024	7:47	157	9.45	30.97	7.85	33.55	4	V
228	9253	4317.4	6949.4	9	5	2024	10:24	158	9.26	30.32	7.77	33.54	3	W
229	9169	4323.9	6952.9	9	5	2024	13:37	154	9.47	29.80	7.22	33.16	3	W
230	9435	4335.0	6946.8	9	5	2024	22:03	102	9.88	29.74	5.38	32.13	5	V

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#	#	(DDMM.M)	(DDMM.M)				(GMT)	Depth (m)	Temp (° C)	Salt	Temp (° C)	Salt	Bottom	Deployment
231	9120	4334.9	6943.0	10	5	2024	0:32	105	9.79	29.91	5.21	32.08	6	V
232	9824	4316.2	6932.1	10	5	2024	9:41	158	8.96	30.41	6.98	33.17	3	W
233	9206	4329.6	6937.6	10	5	2024	12:14	110	9.45	29.81	5.55	32.36	4	V
234	9129	4310.7	7005.5	10	5	2024	22:38	146	10.11	30.10	7.13	33.04	5	V
235	9130	4301.6	7017.0	11	5	2024	1:08	146	9.85	29.99	6.94	32.80	4	V
236	9374	4255.0	7001.4	11	5	2024	3:31	125	9.38	30.11	7.14	32.96	4	V
237	9176	4240.8	6957.3	11	5	2024	6:14	186	9.74	30.00	8.04	33.95	2	V
238	9353	4231.4	6950.3	11	5	2024	8:54	223	9.35	30.78	8.00	33.98	3	W
138	9233	4223.6	6921.0	11	5	2024	16:00	245	8.53	31.36	8.06	34.17	44	B
139	9233	4224.3	6921.0	11	5	2024	16:22	248	8.57	31.36	7.87	34.27	5	V
239	9608	4142.8	6952.4	12	5	2024	0:37	21	8.50	31.03	8.44	31.03	3	V
240	9611	4101.9	6915.6	12	5	2024	9:38	57	6.86	32.01	6.85	32.03	5	W
241	9668	4117.9	7036.7	12	5	2024	17:13	24	10.87	31.00	10.34	31.02	4	V
140	9335	4027.1	7123.8	12	5	2024	23:26	74	9.96	32.05	6.31	32.12	6	B
141	9747	3935.8	7202.8	13	5	2024	5:41	228	7.47	32.22	10.19	35.19	3	W
142	9220	3945.3	7213.6	13	5	2024	8:16	97	11.51	33.10	10.09	33.93	4	B
242	9369	4011.8	7155.8	13	5	2024	11:53	75	9.06	32.06	6.17	32.16	4	W

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

Records in bold are collected with an SBE911+ CTD