

*Oceans and Climate Branch CTD Data Report  
CTD\_REPORT\_2021004PC*

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

DATE: 5 December 2022

# Oceans and Climate Branch CTD Data Report

## CTD\_REPORT\_2021004PC

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

PC 2104  
Summer ECOMON Survey  
Data Coverage: August 5 – 18, 2021  
Mid Atlantic Bight, Georges Bank, Gulf of Maine

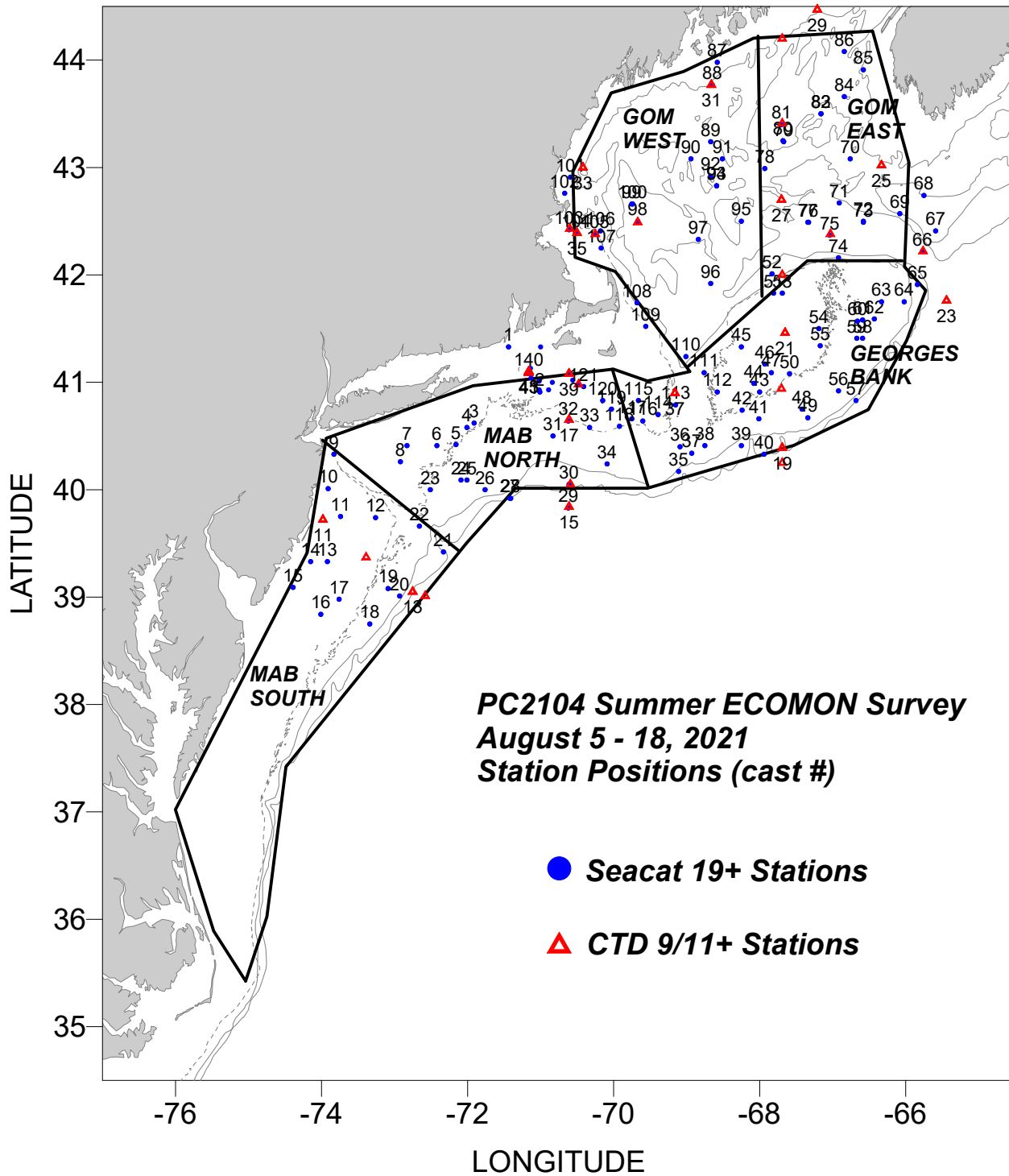
This report presents a summary of surface and bottom temperature and salinity data collected during the Northeast Fisheries Science Center's PC2104 Summer ECOMON Survey aboard the NOAA FSV *Pisces*. Data was obtained with a Sea-Bird Electronics SBE Model 19+V2 profiling CTD (s/n 7142) during double oblique bongo tows and on vertical casts with a SBE Model 9/11+ s/n 0420. Sea water samples were taken for the purpose of calibrating salinity values.

The SBE19+V2 was deployed on 133 double oblique bongo casts and 7 vertical casts. The SBE9/11+ was used successfully on 35 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: January 18, 2022



**Areal average surface and bottom temperature/salinity and temperature/salinity anomalies for the  
PC2104 Summer ECOMON Survey  
August 5 - 18,2021**

		SURFACE						BOTTOM					
Region	CD	#obs	Temp (degC)	Anomaly	SDV1	SDV2	Flag	#obs	Temp (degC)	Anomaly	SDV1	SDV2	Flag
WGOM	227	23	19.85	2.93	0.21	0.83	0	19	8.15	1.84	0.19	0.35	0
EGOM	225	25	17.61	3.64	0.19	1.68	0	18	9.66	1.79	0.30	0.78	0
GB	223	38	19.44	3.44	0.23	2.25	0	38	13.64	1.97	0.21	2.17	0
MABN	222	33	21.77	1.92	0.30	1.60	0	33	11.55	2.42	0.29	1.33	0
MABS	219	18	23.54	0.81	1.60	0.70	1	17	12.29	1.50	1.79	2.38	1

		SURFACE						BOTTOM					
Region	CD	#obs	Salinity	Anomaly	SDV1	SDV2	Flag	#obs	Salinity	Anomaly	SDV1	SDV2	Flag
WGOM	227	23	32.05	0.11	0.09	0.23	0	19	33.59	0.19	0.07	0.20	0
EGOM	225	25	32.42	0.01	0.10	0.18	0	18	34.38	0.29	0.10	0.30	0
GB	223	38	33.01	0.24	0.08	0.75	0	38	33.44	0.31	0.07	0.70	0
MABN	222	33	32.70	0.29	0.13	0.51	0	33	33.56	0.26	0.11	0.40	0
MABS	219	18	31.47	-0.46	0.88	1.32	1	17	33.48	0.26	0.70	0.63	1

"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;

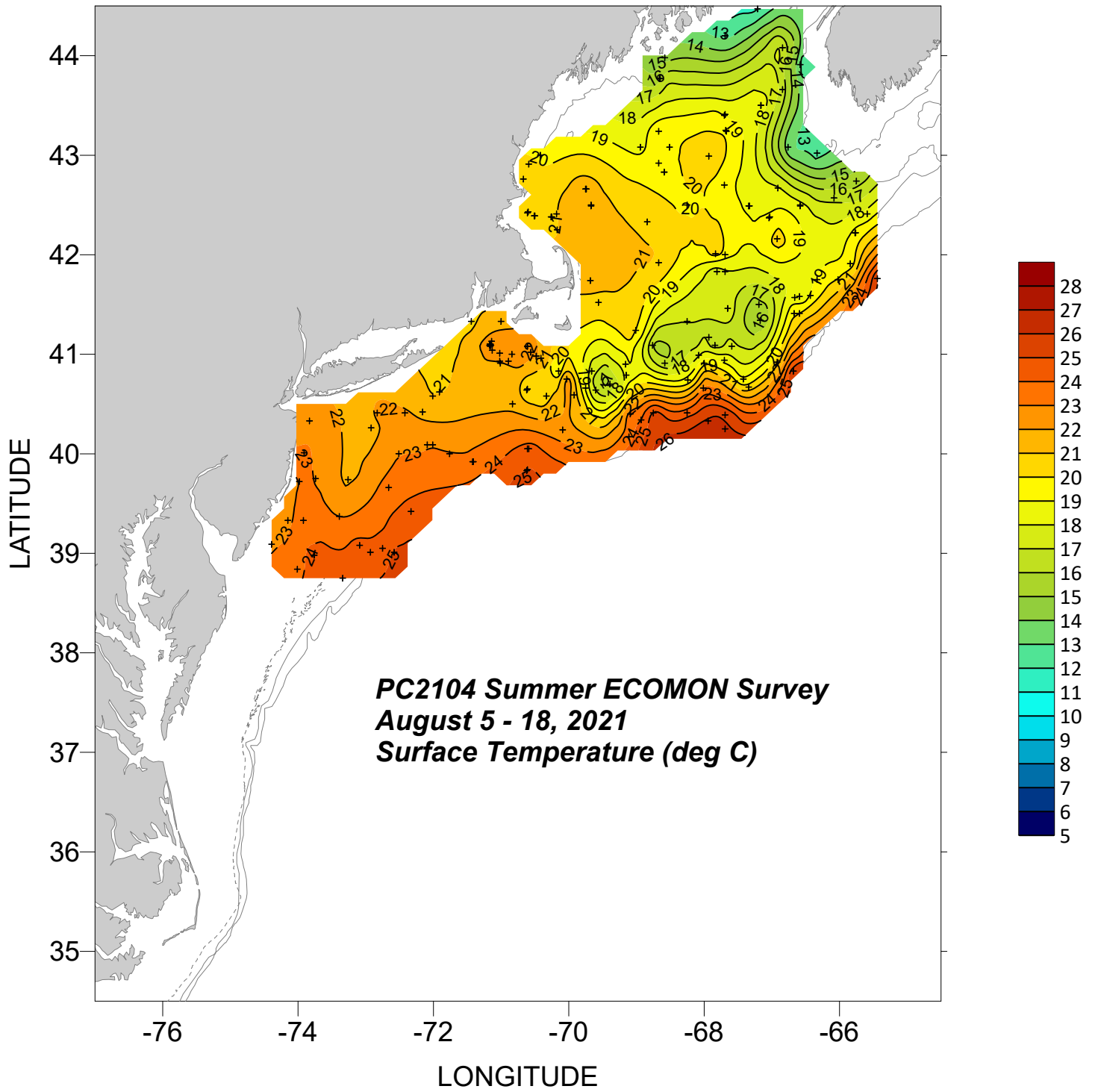
"#obs": the number of observations include in each average;

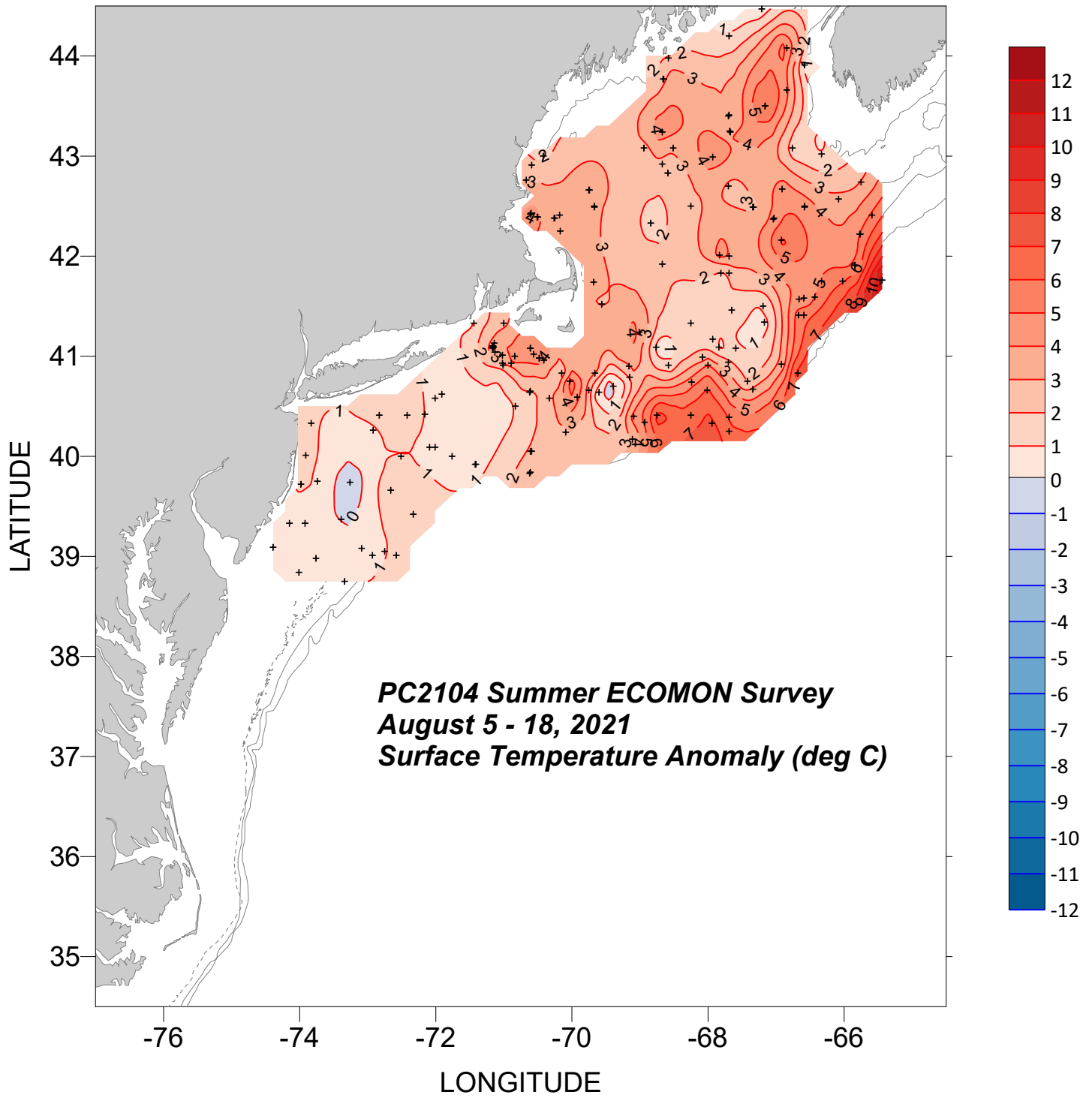
"Temp (degC)"/"Salt": the areal averaged temperature or salinity; "Anomaly": the areal averaged temp/salt anomaly;

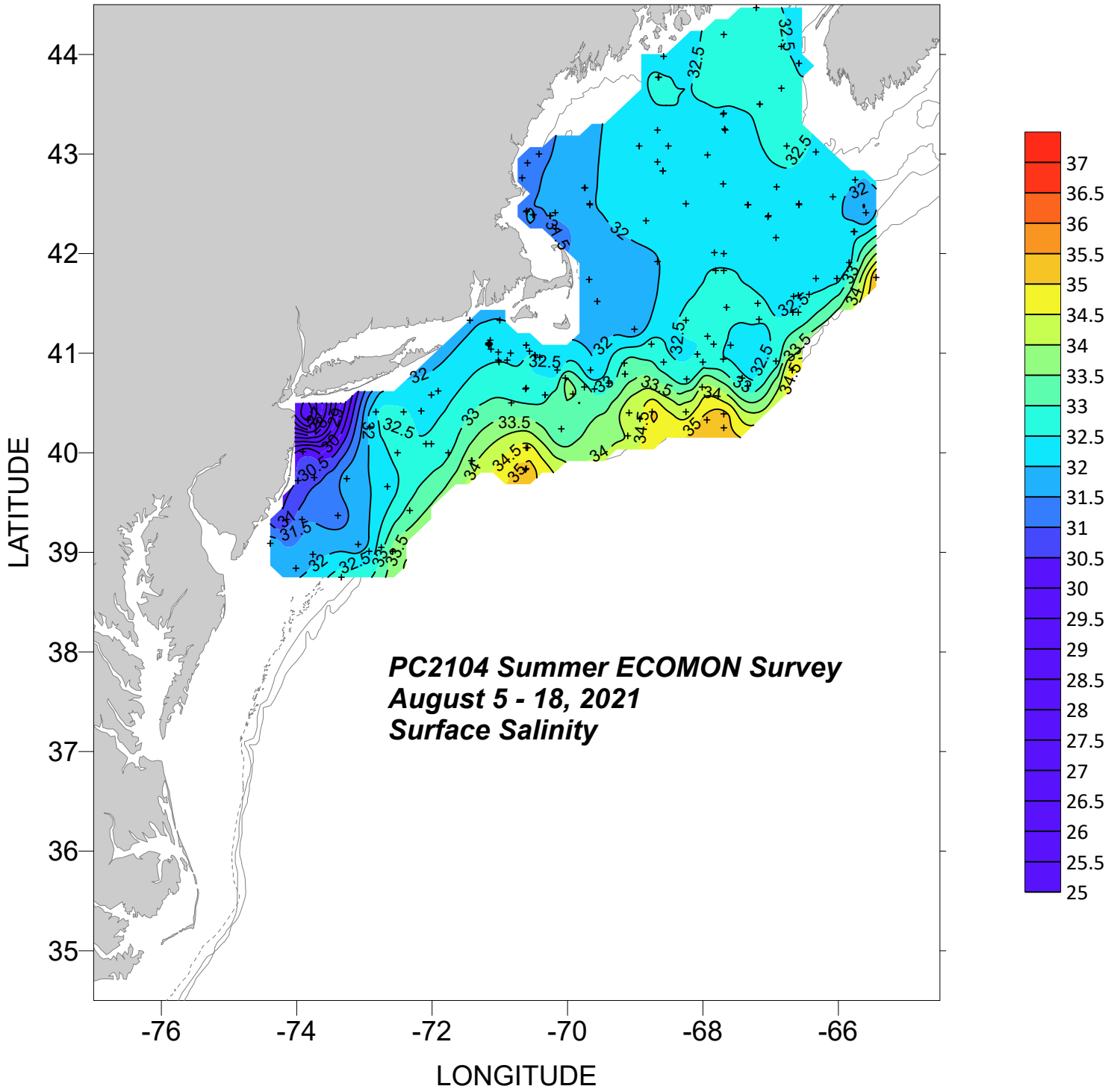
"SDV1": the standard deviation associated with the average temp/salt anomaly;

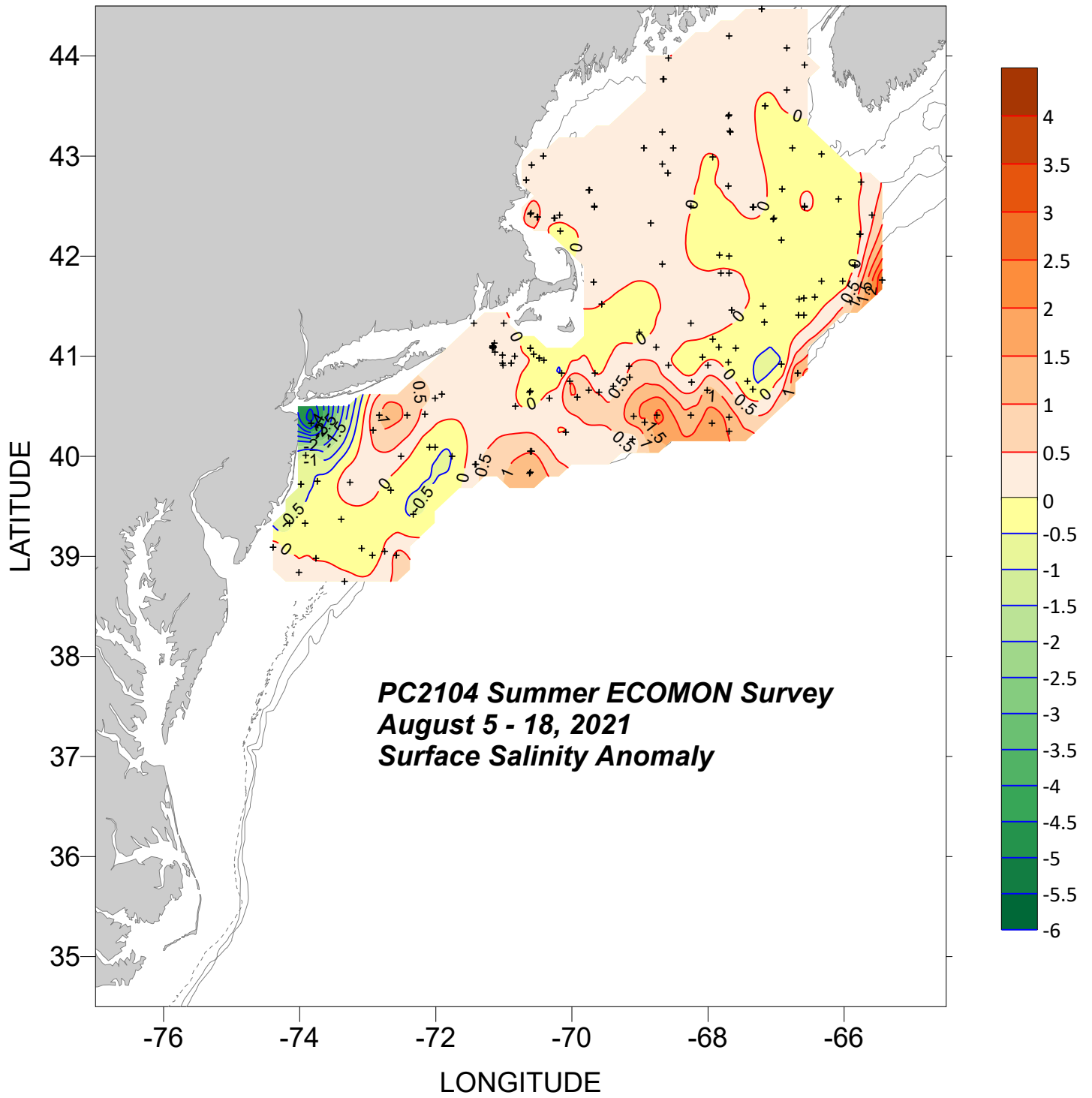
"SDV2": the standard deviation of the individual anomalies from which the average anomaly was derived;

"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.

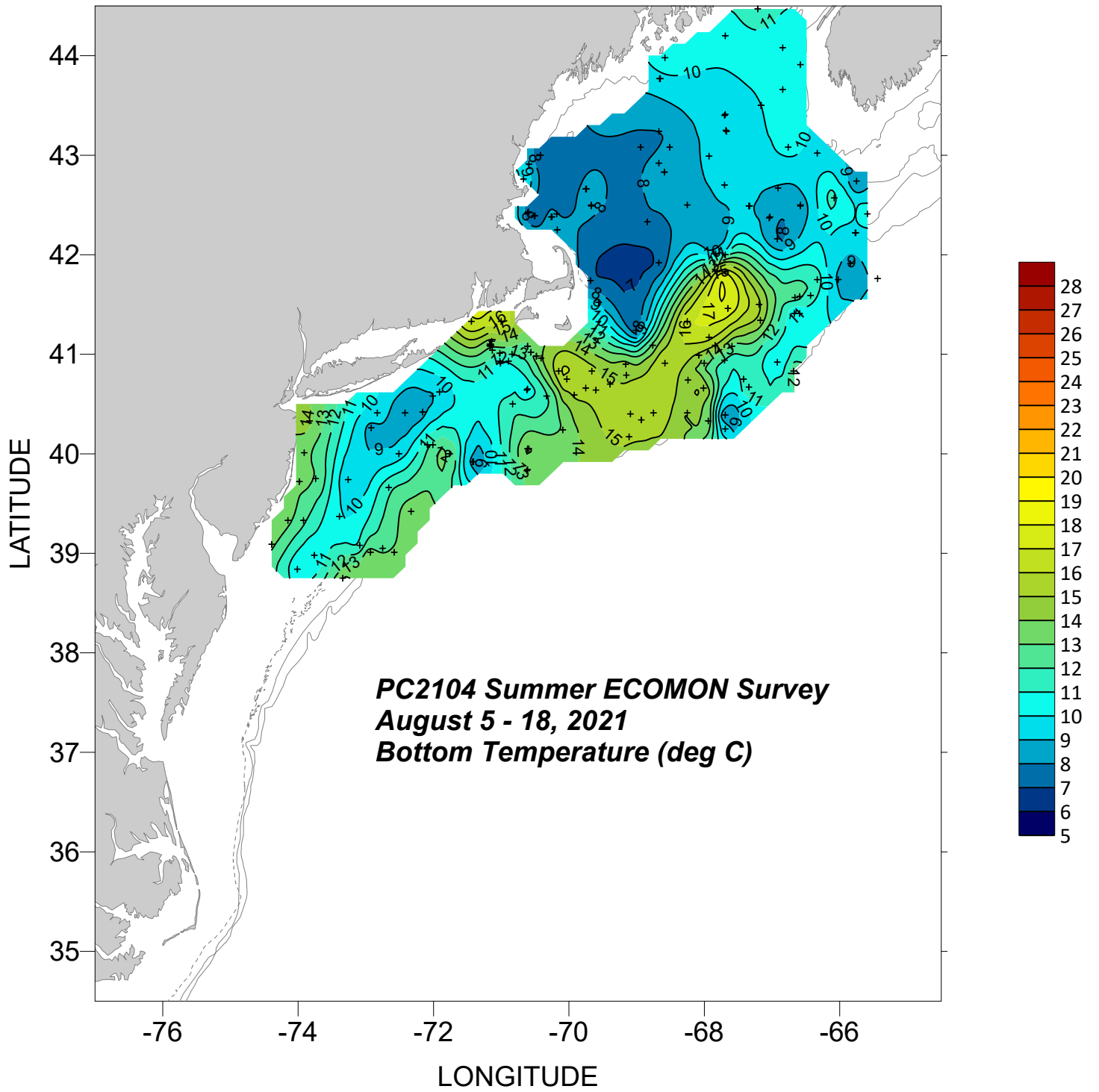


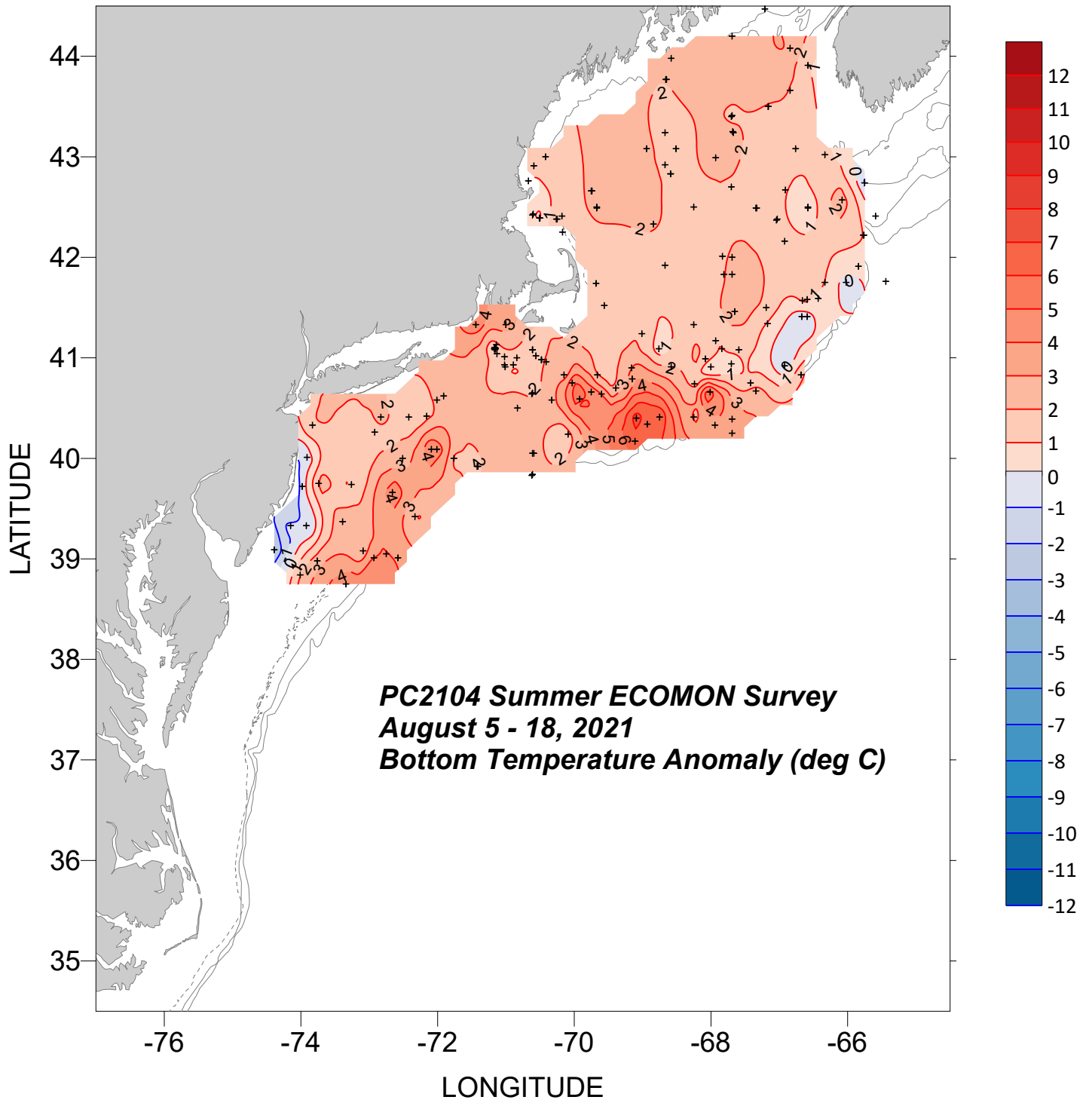


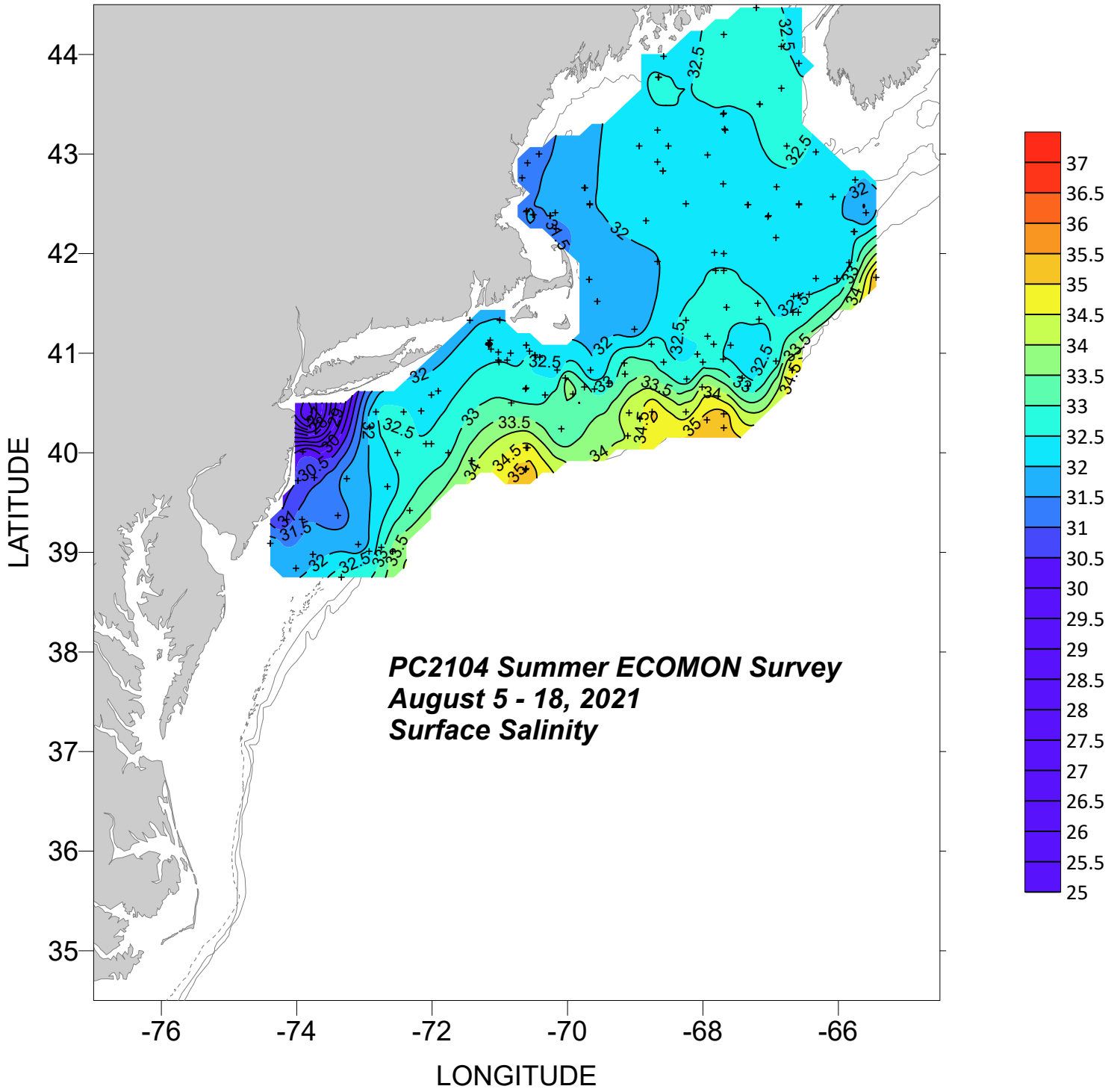


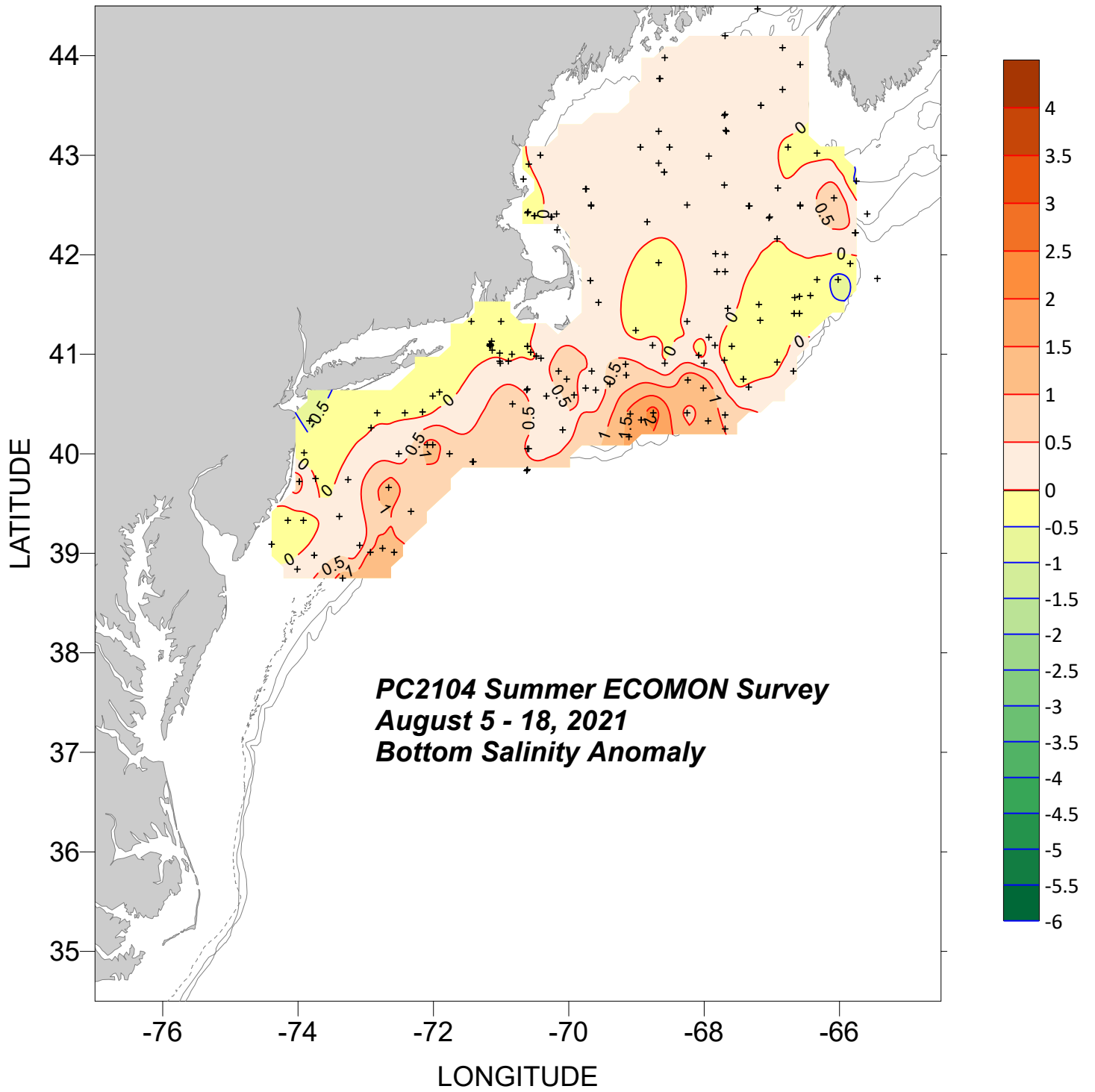












**PC2104 Summer ECOMON Survey**  
**August 5 - 18, 2021**

Cast #	Station #	Lat (DDMM.M)	Long (DDMM.M)	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	1	4120.0	7126.2	5	8	2021	20:18	27	20.67	31.84	17.58	32.21	4	B
2	2	4054.6	7100.3	6	8	2021	0:12	58	19.79	32.58	10.09	33.19	4	B
3	3	4036.9	7154.3	6	8	2021	5:13	59	20.88	32.22	8.80	33.00	4	B
4	4	4034.5	7200.6	6	8	2021	5:58	58	21.01	32.28	9.03	33.02	5	B
5	5	4025.4	7209.5	6	8	2021	7:22	61	21.74	32.28	8.47	33.01	4	B
6	6	4024.7	7225.2	6	8	2021	8:51	55	22.12	32.59	8.14	32.87	3	B
7	7	4024.7	7249.9	6	8	2021	11:01	47	22.25	32.66	9.76	32.77	4	B
8	8	4015.6	7255.0	6	8	2021	12:15	49	21.58	32.10	8.56	32.73	5	B
9	9	4019.7	7349.9	6	8	2021	17:54	30	22.64	25.37	14.38	32.01	5	B
10	10	4000.8	7354.7	6	8	2021	20:12	23	23.22	30.84	13.15	31.97	5	B
<b>11</b>	<b>11</b>	<b>3943.0</b>	<b>7359.1</b>	<b>6</b>	<b>8</b>	<b>2021</b>	<b>22:28</b>	<b>23</b>	<b>23.01</b>	<b>30.53</b>	<b>12.97</b>	<b>33.20</b>	<b>4</b>	<b>W</b>
11	12	3944.8	7344.6	6	8	2021	23:54	29	23.05	30.88	13.45	32.19	5	B
12	13	3944.2	7315.3	7	8	2021	2:19	44	21.72	31.79	8.82	32.82	3	B
<b>12</b>	<b>14</b>	<b>3921.9</b>	<b>7323.2</b>	<b>7</b>	<b>8</b>	<b>2021</b>	<b>4:50</b>	<b>48</b>	<b>22.91</b>	<b>31.24</b>	<b>9.97</b>	<b>32.78</b>	<b>5</b>	<b>W</b>
13	15	3919.8	7355.2	7	8	2021	7:41	30	23.70	31.48	12.22	32.34	5	B
14	16	3919.7	7409.0	7	8	2021	9:06	24	22.56	30.52	13.44	32.16	4	B
15	17	3905.5	7423.5	7	8	2021	11:21	26	22.84	31.80	13.27	32.29	4	B
16	18	3850.3	7400.6	7	8	2021	13:47	46	23.73	31.75	10.10	32.93	2	B
17	19	3859.0	7345.7	7	8	2021	15:28	43	24.35	31.83	10.05	32.97	4	B
18	20	3845.2	7320.4	7	8	2021	18:06	74	24.32	32.82	14.16	35.61	6	B
19	21	3904.5	7305.3	7	8	2021	20:35	72	24.31	31.77	10.99	34.28	5	B
20	22	3900.3	7256.0	7	8	2021	21:40	92	24.32	32.02	13.81	35.61	2	B
<b>13</b>	<b>23</b>	<b>3903.0</b>	<b>7245.1</b>	<b>7</b>	<b>8</b>	<b>2021</b>	<b>22:49</b>	<b>176</b>	<b>24.14</b>	<b>32.81</b>	<b>12.55</b>	<b>35.60</b>	<b>3</b>	<b>W</b>
<b>14</b>	<b>24</b>	<b>3900.7</b>	<b>7234.9</b>	<b>8</b>	<b>8</b>	<b>2021</b>	<b>0:02</b>	<b>1003</b>	<b>25.17</b>	<b>33.79</b>	<b>5.89</b>	<b>35.06</b>	<b>500</b>	<b>W</b>
21	25	3925.0	7219.9	8	8	2021	3:29	145	24.32	33.15	13.64	35.67	2	B
22	26	3939.6	7239.7	8	8	2021	5:57	77	23.43	32.14	11.94	34.72	5	B
23	27	3959.9	7230.5	8	8	2021	8:18	65	22.96	32.66	9.27	33.44	3	B
24	28	4005.1	7205.3	8	8	2021	10:40	74	22.79	32.49	11.67	34.51	3	B

**PC2104 Summer ECOMON Survey  
August 5 - 18, 2021**

Cast #	Station #	Lat (DDMM.M)	Long (DDMM.M)	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	29	4005.1	7200.3	8	8	2021	11:18	80	22.99	32.66	12.50	34.85	4	B
26	30	3959.9	7145.7	8	8	2021	12:43	96	23.03	32.83	13.68	35.56	4	B
27	31	3955.0	7125.4	8	8	2021	14:36	352	23.31	33.90	12.71	35.61	149	B
28	31	3955.3	7124.9	8	8	2021	14:55	335	23.43	33.90	7.57	35.13	9	V
29	32	3949.9	7037.1	8	8	2021	19:11	934	25.09	35.27	11.33	35.42	732	B
<b>15</b>	<b>32</b>	<b>3950.1</b>	<b>7036.6</b>	<b>8</b>	<b>8</b>	<b>2021</b>	<b>19:47</b>	<b>877</b>	<b>25.08</b>	<b>35.28</b>	<b>6.13</b>	<b>35.07</b>	<b>372</b>	<b>W</b>
30	33	4003.2	7036.3	8	8	2021	21:35	131	24.47	34.70	14.22	35.75	3	B
<b>16</b>	<b>33</b>	<b>4003.2</b>	<b>7035.7</b>	<b>8</b>	<b>8</b>	<b>2021</b>	<b>22:07</b>	<b>132</b>	<b>24.53</b>	<b>34.75</b>	<b>14.22</b>	<b>35.75</b>	<b>5</b>	<b>W</b>
31	34	4030.0	7049.7	9	8	2021	1:11	78	21.70	33.04	11.94	34.32	2	B
32	35	4038.4	7037.1	9	8	2021	2:42	63	20.51	32.57	10.42	33.46	3	B
<b>17</b>	<b>35</b>	<b>4038.8</b>	<b>7036.7</b>	<b>9</b>	<b>8</b>	<b>2021</b>	<b>3:11</b>	<b>62</b>	<b>19.97</b>	<b>32.49</b>	<b>10.43</b>	<b>33.42</b>	<b>2</b>	<b>W</b>
33	36	4034.6	7020.0	9	8	2021	5:00	61	20.31	32.88	11.25	33.26	3	B
34	37	4014.6	7005.7	9	8	2021	7:30	97	22.40	32.78	12.98	35.31	5	B
35	38	4010.1	6906.4	9	8	2021	12:34	131	23.56	33.96	15.14	35.88	3	B
36	39	4024.1	6905.1	9	8	2021	14:10	84	23.61	34.50	16.21	35.30	4	B
37	40	4020.4	6855.9	9	8	2021	15:15	91	23.87	34.27	15.04	35.41	5	B
38	41	4024.9	6845.2	9	8	2021	16:21	85	25.60	35.20	16.13	35.65	5	B
39	42	4024.7	6815.2	9	8	2021	18:47	125	24.56	34.22	13.82	35.75	4	B
40	43	4020.0	6756.1	9	8	2021	20:36	142	26.23	35.24	14.02	35.76	2	B
<b>18</b>	<b>44</b>	<b>4014.8</b>	<b>6741.6</b>	<b>9</b>	<b>8</b>	<b>2021</b>	<b>22:08</b>	<b>1023</b>	<b>26.13</b>	<b>35.14</b>	<b>5.92</b>	<b>35.06</b>	<b>518</b>	<b>W</b>
<b>19</b>	<b>45</b>	<b>4023.2</b>	<b>6741.2</b>	<b>9</b>	<b>8</b>	<b>2021</b>	<b>23:40</b>	<b>384</b>	<b>26.15</b>	<b>35.32</b>	<b>7.27</b>	<b>35.16</b>	<b>9</b>	<b>W</b>
41	46	4039.9	6800.3	10	8	2021	2:14	84	23.43	34.22	15.92	34.87	2	B
42	47	4044.3	6814.4	10	8	2021	3:48	66	19.00	32.56	14.07	34.12	3	B
43	48	4054.8	6800.2	10	8	2021	5:28	50	20.12	32.77	12.06	32.85	3	B
44	49	4059.4	6804.8	10	8	2021	6:21	54	17.42	32.50	14.86	32.59	2	B
45	50	4119.8	6815.1	10	8	2021	10:09	50	17.09	32.66	17.09	32.66	6	B
46	51	4110.0	6755.7	10	8	2021	12:19	53	16.99	32.54	16.31	32.54	4	B
47	52	4105.5	6750.7	10	8	2021	13:18	51	16.50	32.53	15.77	32.55	6	B

**PC2104 Summer ECOMON Survey  
August 5 - 18, 2021**

Cast #	Station #	Lat (DDMM.M)	Long (DDMM.M)	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
<b>20</b>	<b>53</b>	<b>4056.4</b>	<b>6742.3</b>	<b>10</b>	<b>8</b>	<b>2021</b>	<b>14:47</b>	<b>64</b>	<b>18.79</b>	<b>32.42</b>	<b>11.41</b>	<b>32.81</b>	<b>2</b>	<b>W</b>
48	54	4045.1	6725.5	10	8	2021	16:50	91	18.87	32.53	10.86	33.27	3	B
49	55	4040.3	6720.7	10	8	2021	17:41	96	20.51	32.47	12.30	33.97	7	B
50	56	4104.5	6735.4	10	8	2021	20:52	59	17.24	32.52	12.73	32.67	3	B
<b>21</b>	<b>57</b>	<b>4127.5</b>	<b>6739.0</b>	<b>10</b>	<b>8</b>	<b>2021</b>	<b>23:53</b>	<b>38</b>	<b>17.72</b>	<b>32.56</b>	<b>17.74</b>	<b>32.56</b>	<b>3</b>	<b>W</b>
51	58	4149.5	6748.7	11	8	2021	2:59	37	16.94	32.64	16.89	32.64	3	B
52	59	4200.6	6750.0	11	8	2021	4:13	174	20.54	32.01	8.22	34.37	3	B
<b>22</b>	<b>60</b>	<b>4200.2</b>	<b>6741.5</b>	<b>11</b>	<b>8</b>	<b>2021</b>	<b>5:25</b>	<b>60</b>	<b>19.50</b>	<b>32.15</b>	<b>11.17</b>	<b>32.74</b>	<b>4</b>	<b>W</b>
53	61	4149.6	6741.1	11	8	2021	7:00	36	17.81	32.62	17.65	32.61	5	B
54	62	4130.1	6711.1	11	8	2021	10:53	53	15.37	32.57	15.27	32.57	7	B
55	63	4120.1	6710.5	11	8	2021	12:03	53	14.80	32.58	14.72	32.58	5	B
56	64	4055.4	6655.2	11	8	2021	15:14	86	20.34	32.51	9.42	33.10	5	B
57	65	4049.7	6640.6	11	8	2021	16:42	205	25.90	35.11	12.90	35.64	3	B
58	66	4124.7	6635.3	11	8	2021	20:44	88	20.16	32.42	9.91	32.88	3	B
59	67	4124.4	6640.0	11	8	2021	21:37	82	20.00	32.42	9.99	32.87	5	B
60	68	4134.0	6639.9	11	8	2021	23:03	76	18.51	32.47	12.43	32.68	4	B
61	69	4135.0	6635.2	11	8	2021	23:52	80	17.83	32.50	12.93	32.67	3	B
62	70	4135.3	6625.9	12	8	2021	1:15	90	19.12	32.42	11.45	32.71	4	B
63	71	4145.0	6619.9	12	8	2021	2:45	82	19.15	32.37	11.66	32.73	4	B
64	72	4145.0	6600.9	12	8	2021	4:44	100	20.12	32.27	8.30	33.04	3	B
<b>23</b>	<b>73</b>	<b>4145.3</b>	<b>6526.2</b>	<b>12</b>	<b>8</b>	<b>2021</b>	<b>7:39</b>	<b>2000</b>	<b>26.16</b>	<b>35.60</b>	<b>6.25</b>	<b>35.07</b>	<b>1494</b>	<b>W</b>
65	74	4154.5	6550.3	12	8	2021	10:48	139	19.30	32.28	8.83	34.20	6	B
66	75	4213.3	6545.9	12	8	2021	13:12	225	19.33	32.33	10.53	35.33	22	B
<b>24</b>	<b>75</b>	<b>4213.4</b>	<b>6545.4</b>	<b>12</b>	<b>8</b>	<b>2021</b>	<b>13:40</b>	<b>228</b>	<b>19.36</b>	<b>32.44</b>	<b>9.19</b>	<b>35.26</b>	<b>6</b>	<b>W</b>
67	76	4224.4	6535.3	12	8	2021	15:14	93	18.29	31.29	10.78	34.17	6	B
68	77	4244.6	6545.2	12	8	2021	17:26	106	15.47	32.08	7.84	33.17	7	B
69	78	4234.4	6605.0	12	8	2021	19:38	140	16.85	32.22	11.77	34.90	3	B
<b>25</b>	<b>79</b>	<b>4301.4</b>	<b>6620.0</b>	<b>12</b>	<b>8</b>	<b>2021</b>	<b>23:29</b>	<b>136</b>	<b>12.37</b>	<b>32.46</b>	<b>9.65</b>	<b>33.41</b>	<b>9</b>	<b>W</b>

**PC2104 Summer ECOMON Survey  
August 5 - 18, 2021**

Cast #	Station #	Lat (DDMM.M)	Long (DDMM.M)	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
70	80	4304.7	6645.4	13	8	2021	1:51	140	13.08	32.60	10.41	34.13	2	B
71	81	4240.1	6654.9	13	8	2021	4:52	224	18.26	32.41	9.30	35.18	22	B
72	82	4229.8	6635.0	13	8	2021	7:06	280	18.47	32.38	8.63	35.07	77	B
73	82	4229.4	6634.8	13	8	2021	7:25	276	18.40	32.36	8.26	35.08	1	V
74	83	4209.5	6655.3	13	8	2021	10:43	101	20.65	32.18	7.36	33.38	6	B
75	84	4222.3	6702.4	13	8	2021	12:25	336	19.14	32.32	9.05	35.14	132	B
<b>26</b>	<b>84</b>	<b>4222.6</b>	<b>6701.6</b>	<b>13</b>	<b>8</b>	<b>2021</b>	<b>12:46</b>	<b>340</b>	<b>19.05</b>	<b>32.33</b>	<b>8.59</b>	<b>35.13</b>	<b>6</b>	<b>W</b>
76	85	4229.7	6719.9	13	8	2021	15:00	326	18.52	32.39	9.71	35.20	123	B
77	85	4229.2	6720.3	13	8	2021	15:22	325	18.78	32.41	9.07	35.16	4	V
<b>27</b>	<b>86</b>	<b>4241.8</b>	<b>6742.0</b>	<b>13</b>	<b>8</b>	<b>2021</b>	<b>17:56</b>	<b>190</b>	<b>19.18</b>	<b>32.33</b>	<b>9.67</b>	<b>34.88</b>	<b>2</b>	<b>W</b>
78	87	4259.5	6755.6	13	8	2021	20:22	188	20.98	32.31	9.27	34.64	2	B
79	88	4314.7	6740.3	13	8	2021	22:45	227	20.01	32.40	9.37	34.73	25	B
80	88	4314.8	6740.7	13	8	2021	23:06	227	19.43	32.43	9.37	34.74	3	V
81	89	4324.1	6741.9	14	8	2021	0:18	248	19.56	32.50	9.50	34.72	45	B
<b>28</b>	<b>89</b>	<b>4324.4</b>	<b>6741.1</b>	<b>14</b>	<b>8</b>	<b>2021</b>	<b>0:47</b>	<b>242</b>	<b>18.64</b>	<b>32.47</b>	<b>9.50</b>	<b>34.74</b>	<b>4</b>	<b>W</b>
82	90	4329.9	6709.9	14	8	2021	3:25	224	18.70	32.52	10.01	34.88	22	B
83	90	4329.9	6709.4	14	8	2021	3:47	225	18.81	32.49	10.00	34.88	2	V
84	91	4339.7	6650.1	14	8	2021	5:36	115	16.72	32.63	10.21	34.19	4	B
85	92	4354.7	6635.0	14	8	2021	7:37	85	12.59	32.47	10.61	33.25	4	B
86	93	4404.9	6650.4	14	8	2021	9:22	161	17.53	32.51	10.12	34.32	6	B
<b>29</b>	<b>94</b>	<b>4428.3</b>	<b>6712.4</b>	<b>14</b>	<b>8</b>	<b>2021</b>	<b>12:39</b>	<b>97</b>	<b>11.72</b>	<b>32.58</b>	<b>11.73</b>	<b>32.59</b>	<b>4</b>	<b>W</b>
<b>30</b>	<b>95</b>	<b>4412.0</b>	<b>6741.4</b>	<b>14</b>	<b>8</b>	<b>2021</b>	<b>15:36</b>	<b>110</b>	<b>12.55</b>	<b>32.76</b>	<b>10.30</b>	<b>33.67</b>	<b>3</b>	<b>W</b>
87	96	4358.6	6834.9	14	8	2021	20:08	80	14.51	32.11	10.78	32.67	3	V
88	97	4346.5	6839.1	14	8	2021	21:32	102	16.74	32.64	9.56	33.29	10	B
<b>31</b>	<b>97</b>	<b>4346.5</b>	<b>6839.7</b>	<b>14</b>	<b>8</b>	<b>2021</b>	<b>21:47</b>	<b>113</b>	<b>15.09</b>	<b>32.69</b>	<b>9.69</b>	<b>33.27</b>	<b>5</b>	<b>W</b>
89	98	4314.7	6840.3	15	8	2021	1:00	161	19.84	32.33	7.93	33.90	6	B
90	99	4304.5	6856.3	15	8	2021	2:58	145	18.65	32.30	7.76	33.76	2	B
91	100	4304.8	6830.4	15	8	2021	5:14	195	19.85	32.38	8.05	34.01	6	B



**PC2104 Summer ECOMON Survey**  
**August 5 - 18, 2021**

Cast #	Station #	Lat (DDMM.M)	Long (DDMM.M)	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
92	101	4255.1	6840.4	15	8	2021	6:49	200	19.94	32.31	8.33	34.22	2	B
93	102	4249.7	6835.4	15	8	2021	7:54	179	19.49	32.32	8.52	34.34	4	B
94	102	4249.7	6835.7	15	8	2021	8:27	180	19.40	32.32	8.52	34.34	6	B
95	103	4230.1	6814.8	15	8	2021	11:31	180	19.80	32.29	8.42	34.48	7	B
96	104	4155.2	6840.0	15	8	2021	15:54	164	21.00	31.97	6.89	33.48	7	B
97	105	4220.0	6850.6	15	8	2021	22:32	210	20.68	32.18	7.92	34.00	8	B
98	106	4229.8	6940.0	16	8	2021	2:49	253	21.42	31.98	8.30	34.20	51	B
<b>32</b>	<b>106</b>	<b>4229.3</b>	<b>6940.1</b>	<b>16</b>	<b>8</b>	<b>2021</b>	<b>3:14</b>	<b>258</b>	<b>21.45</b>	<b>31.98</b>	<b>8.37</b>	<b>34.30</b>	<b>4</b>	<b>W</b>
99	107	4239.6	6945.0	16	8	2021	4:44	241	21.68	31.90	8.05	34.00	39	B
100	107	4239.6	6944.6	16	8	2021	5:03	242	21.67	31.91	8.22	34.19	5	V
<b>33</b>	<b>108</b>	<b>4259.9</b>	<b>7025.5</b>	<b>16</b>	<b>8</b>	<b>2021</b>	<b>9:02</b>	<b>103</b>	<b>19.55</b>	<b>31.30</b>	<b>7.26</b>	<b>32.64</b>	<b>3</b>	<b>W</b>
101	109	4254.8	7035.6	16	8	2021	10:22	74	20.42	31.42	8.49	32.32	5	B
102	110	4245.5	7040.5	16	8	2021	11:39	42	21.12	31.03	10.40	32.14	6	B
103	111	4225.4	7036.4	16	8	2021	14:31	86	20.70	31.43	7.32	32.37	5	B
<b>34</b>	<b>111</b>	<b>4225.6</b>	<b>7036.2</b>	<b>16</b>	<b>8</b>	<b>2021</b>	<b>14:43</b>	<b>86</b>	<b>20.57</b>	<b>31.43</b>	<b>7.05</b>	<b>32.43</b>	<b>2</b>	<b>W</b>
104	112	4223.1	7030.6	16	8	2021	15:35	87	21.07	31.68	6.88	32.41	4	B
<b>35</b>	<b>112</b>	<b>4223.3</b>	<b>7030.2</b>	<b>16</b>	<b>8</b>	<b>2021</b>	<b>15:53</b>	<b>87</b>	<b>20.77</b>	<b>31.67</b>	<b>6.88</b>	<b>32.42</b>	<b>4</b>	<b>W</b>
105	113	4222.5	7015.3	16	8	2021	17:19	49	20.55	31.25	8.62	32.43	7	B
<b>36</b>	<b>113</b>	<b>4222.6</b>	<b>7015.1</b>	<b>16</b>	<b>8</b>	<b>2021</b>	<b>17:36</b>	<b>52</b>	<b>20.69</b>	<b>31.37</b>	<b>8.63</b>	<b>NaN</b>	<b>4</b>	<b>W</b>
106	114	4224.5	7010.7	16	8	2021	18:21	79	21.05	31.98	7.72	32.49	6	B
107	115	4215.1	7010.1	16	8	2021	19:36	48	20.97	30.95	8.72	32.33	4	B
108	116	4144.4	6940.6	16	8	2021	23:25	125	21.40	32.04	6.94	33.10	3	B
109	117	4131.3	6933.7	17	8	2021	1:05	43	20.68	31.71	8.91	32.41	5	B
110	118	4114.6	6900.5	17	8	2021	4:18	145	20.79	31.53	6.83	32.97	5	B
111	119	4105.6	6845.3	17	8	2021	6:01	65	15.77	32.74	13.55	32.79	4	B
112	120	4054.9	6834.8	17	8	2021	7:51	53	16.10	32.60	16.07	32.60	8	B
<b>37</b>	<b>121</b>	<b>4053.9</b>	<b>6909.4</b>	<b>17</b>	<b>8</b>	<b>2021</b>	<b>10:41</b>	<b>67</b>	<b>19.19</b>	<b>33.35</b>	<b>14.90</b>	<b>33.25</b>	<b>3</b>	<b>W</b>
113	122	4047.4	6909.0	17	8	2021	11:35	68	18.17	33.15	14.51	33.42	6	B

**PC2104 Summer ECOMON Survey**  
**August 5 - 18, 2021**

Cast #	Station #	Lat (DDMM.M)	Long (DDMM.M)	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
114	123	4042.1	6923.4	17	8	2021	13:01	39	15.20	32.72	15.10	32.72	7	B
115	124	4049.5	6939.8	17	8	2021	14:38	35	17.44	32.02	15.44	32.54	6	B
116	125	4038.6	6936.1	17	8	2021	16:03	52	16.66	32.85	15.09	32.91	7	B
117	126	4039.9	6945.0	17	8	2021	16:54	53	18.35	33.11	15.32	33.21	8	B
118	127	4035.1	6955.0	17	8	2021	18:06	61	22.44	33.80	15.16	34.05	7	B
119	128	4045.1	7001.5	17	8	2021	19:25	41	22.58	33.58	16.35	33.36	5	B
120	129	4049.9	7009.1	17	8	2021	20:21	35	18.82	31.97	16.06	32.81	5	B
121	130	4057.5	7024.4	17	8	2021	21:57	43	22.28	32.51	14.03	33.03	5	B
122	131	4059.0	7029.0	17	8	2021	22:49	44	21.89	32.54	13.26	32.69	4	B
<b>38</b>	<b>131</b>	<b>4059.1</b>	<b>7028.7</b>	<b>17</b>	<b>8</b>	<b>2021</b>	<b>23:01</b>	<b>43</b>	<b>21.19</b>	<b>32.61</b>	<b>13.28</b>	<b>32.69</b>	<b>5</b>	<b>W</b>
123	132	4101.0	7033.7	17	8	2021	23:50	45	22.45	32.50	12.77	32.74	4	B
124	133	4104.9	7036.8	18	8	2021	0:37	42	22.39	32.34	12.77	32.73	5	B
<b>39</b>	<b>133</b>	<b>4104.7</b>	<b>7036.6</b>	<b>18</b>	<b>8</b>	<b>2021</b>	<b>0:52</b>	<b>42</b>	<b>20.71</b>	<b>32.37</b>	<b>12.77</b>	<b>32.76</b>	<b>5</b>	<b>W</b>
125	134	4100.1	7050.5	18	8	2021	2:21	50	23.01	32.40	12.04	32.79	4	B
126	135	4056.1	7053.4	18	8	2021	3:06	52	23.14	32.46	10.77	32.99	4	B
127	136	4056.1	7101.2	18	8	2021	3:55	50	23.09	32.45	11.26	32.96	5	B
128	137	4100.7	7101.3	18	8	2021	4:40	46	22.66	32.26	12.50	32.90	6	B
129	138	4102.5	7107.6	18	8	2021	5:31	40	22.47	32.37	12.73	32.71	5	B
130	139	4105.0	7109.6	18	8	2021	6:05	36	22.64	32.32	13.22	32.63	6	B
<b>40</b>	<b>139</b>	<b>4105.2</b>	<b>7109.6</b>	<b>18</b>	<b>8</b>	<b>2021</b>	<b>6:16</b>	<b>36</b>	<b>22.45</b>	<b>32.36</b>	<b>13.22</b>	<b>32.65</b>	<b>6</b>	<b>W</b>
131	140	4107.9	7108.5	18	8	2021	6:53	38	22.50	32.42	13.21	32.68	4	B
132	141	4119.8	7059.9	18	8	2021	8:25	29	21.34	31.98	17.37	32.10	7	B
133	142	4105.7	7109.5	18	8	2021	10:24	35	22.46	32.40	13.24	32.64	6	B
<b>41</b>	<b>142</b>	<b>4105.5</b>	<b>7109.3</b>	<b>18</b>	<b>8</b>	<b>2021</b>	<b>10:37</b>	<b>36</b>	<b>22.44</b>	<b>32.39</b>	<b>13.18</b>	<b>32.66</b>	<b>3</b>	<b>W</b>
134	143	4105.8	7109.5	18	8	2021	12:13	35	22.60	32.33	13.26	32.64	7	B
135	144	4105.8	7109.6	18	8	2021	13:49	35	22.83	32.32	13.25	32.64	7	B
<b>42</b>	<b>144</b>	<b>4105.6</b>	<b>7109.5</b>	<b>18</b>	<b>8</b>	<b>2021</b>	<b>14:00</b>	<b>35</b>	<b>20.46</b>	<b>32.69</b>	<b>13.19</b>	<b>32.65</b>	<b>3</b>	<b>W</b>
136	145	4105.6	7109.7	18	8	2021	15:28	35	22.89	32.29	13.25	32.64	6	B

**PC2104 Summer ECOMON Survey**  
**August 5 - 18, 2021**

Cast #	Station #	Lat (DDMM.M)	Long (DDMM.M)	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
137	146	4105.8	7109.5	18	8	2021	16:59	35	23.21	32.42	13.29	32.63	5	B
<b>43</b>	<b>146</b>	<b>4106.1</b>	<b>7109.6</b>	<b>18</b>	<b>8</b>	<b>2021</b>	<b>17:13</b>	<b>35</b>	<b>22.99</b>	<b>32.45</b>	<b>13.23</b>	<b>32.65</b>	<b>2</b>	<b>W</b>
138	147	4105.1	7109.0	18	8	2021	18:25	35	23.20	32.36	12.87	32.71	4	B
139	148	4105.3	7110.0	18	8	2021	20:00	35	23.08	32.34	13.19	32.64	5	B
<b>44</b>	<b>148</b>	<b>4105.7</b>	<b>7109.8</b>	<b>18</b>	<b>8</b>	<b>2021</b>	<b>20:18</b>	<b>35</b>	<b>23.07</b>	<b>32.36</b>	<b>13.20</b>	<b>32.65</b>	<b>4</b>	<b>W</b>
140	149	4105.9	7109.8	18	8	2021	21:27	35	23.40	32.34	13.19	32.64	4	B
<b>45</b>	<b>149</b>	<b>4106.0</b>	<b>7109.4</b>	<b>18</b>	<b>8</b>	<b>2021</b>	<b>21:39</b>	<b>36</b>	<b>23.17</b>	<b>32.33</b>	<b>13.15</b>	<b>32.67</b>	<b>5</b>	<b>W</b>

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

**Records in bold are collected with an SBE911+ CTD**