

*Oceanography Branch CTD Data Report*  
*CTD\_REPORT\_2013001PC*

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

DATE: October 22, 2013

# Oceanography Branch CTD Data Report

## CTD\_REPORT\_2013001PC

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

PC 13-01  
ECOMON  
Data Coverage: February 1- - 26, 2013  
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 PC1301 ECOMON Survey aboard the NOAA FSV *Pisces*. Data was obtained with a Seabird Electronics SBE Model 19+ profiling CTD (s/n 4684) and a Seabird Electronics SBE Model 9/11+ CTD (s/n 0420). Sea water samples were taken for the purpose of correcting salinity values for both instruments. No salinity correction was necessary for any instrument.

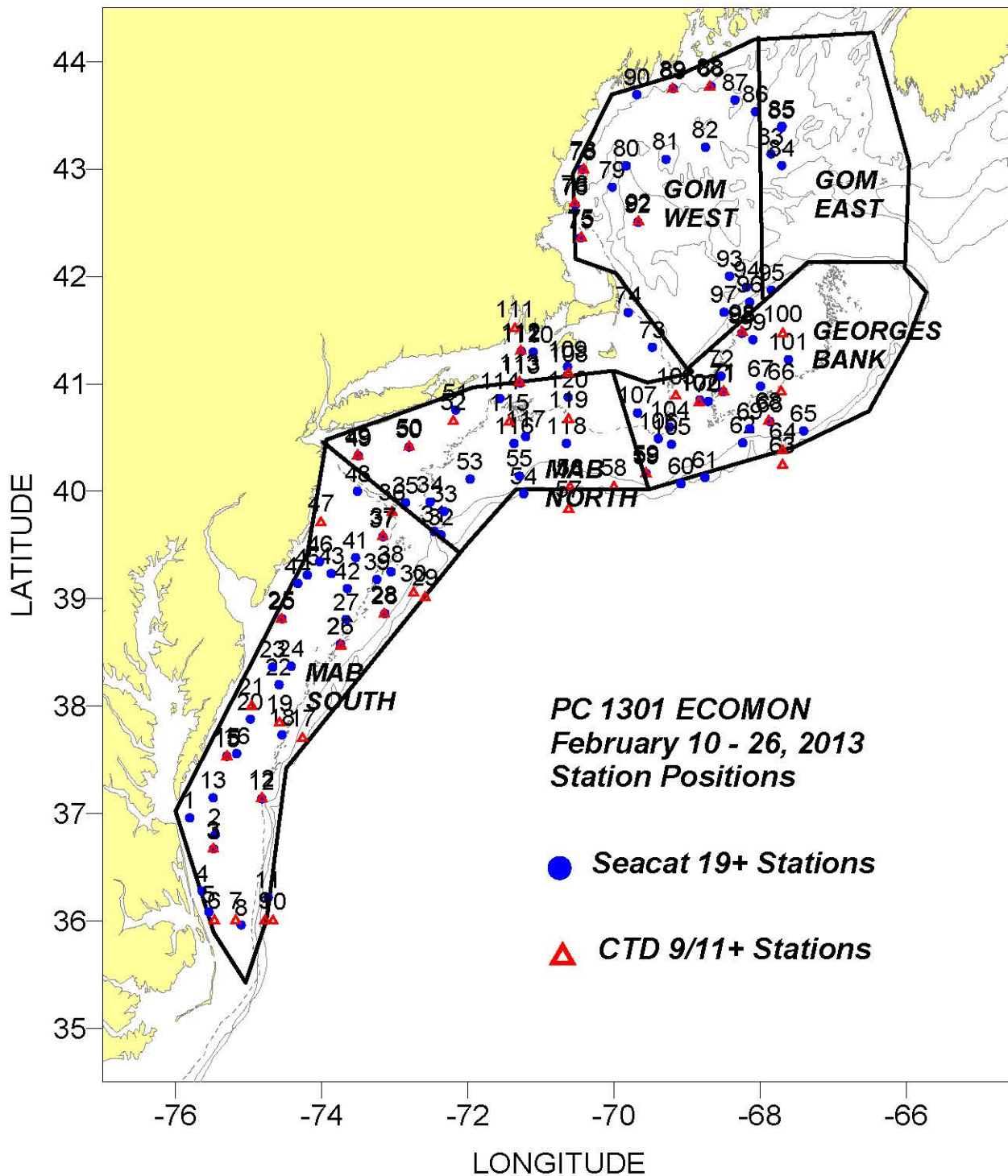
Data presented here have been audited, however, corrections and/or updates may be applied at a later time. The most recent and complete station data can be found in an NODC formatted ASCII file at:  
<ftp://ftp.nefsc.noaa.gov/pub/hydro/pc1301.dat>

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

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

choose: **2013 Cruises**  
**FEB\_ECOMON\_PC1301**  
**CTD\_REPORT\_2013001PC.pdf**

Revised: October 22, 2013



**Areal average surface and bottom temperature/salinity and temperature/salinity anomalies for the  
PC1301 ECOMON/NASA Survey  
February 10 - 26, 2013**

CRUISE	CD	SURFACE						BOTTOM						Purpose
		#obs	T/S	Anomaly	SDV1	SDV2	Flag	#obs	T/S	Anomaly	SDV1	SDV2	Flag	
<b>Western Gulf of Maine</b>														
pc1301	52	38	6.08	1.69	0.23	2.30	1	39	7.06	1.67	0.21	2.78	1	22
pc1301	52	38	33.19	0.35	0.15	0.88	1	39	33.65	0.25	0.13	0.93	1	22
<b>Eastern Gulf of Maine</b>														
pc1301	52	5	6.12	1.17	0.45	4.89	1	4	8.37	1.85	0.48	6.84	1	22
pc1301	52	5	33.00	0.11	0.32	1.88	1	4	34.04	0.16	0.27	2.29	1	22
<b>Georges Bank</b>														
pc1301	50	23	6.54	1.49	0.23	2.03	1	21	6.30	1.22	0.23	2.56	1	22
pc1301	50	23	33.40	0.36	0.14	0.73	1	21	33.39	0.28	0.14	0.81	1	22
<b>MAB North</b>														
pc1301	50	25	6.89	1.63	0.25	1.46	0	23	6.96	1.51	0.27	1.71	0	22
pc1301	50	25	33.62	0.46	0.17	0.50	0	23	33.73	0.28	0.17	0.53	0	22
<b>MAB South</b>														
pc1301	43	42	8.57	2.50	0.21	1.68	0	43	8.37	2.42	0.21	1.33	0	22
pc1301	43	42	33.92	0.52	0.16	0.58	0	43	34.02	0.52	0.13	0.42	0	22

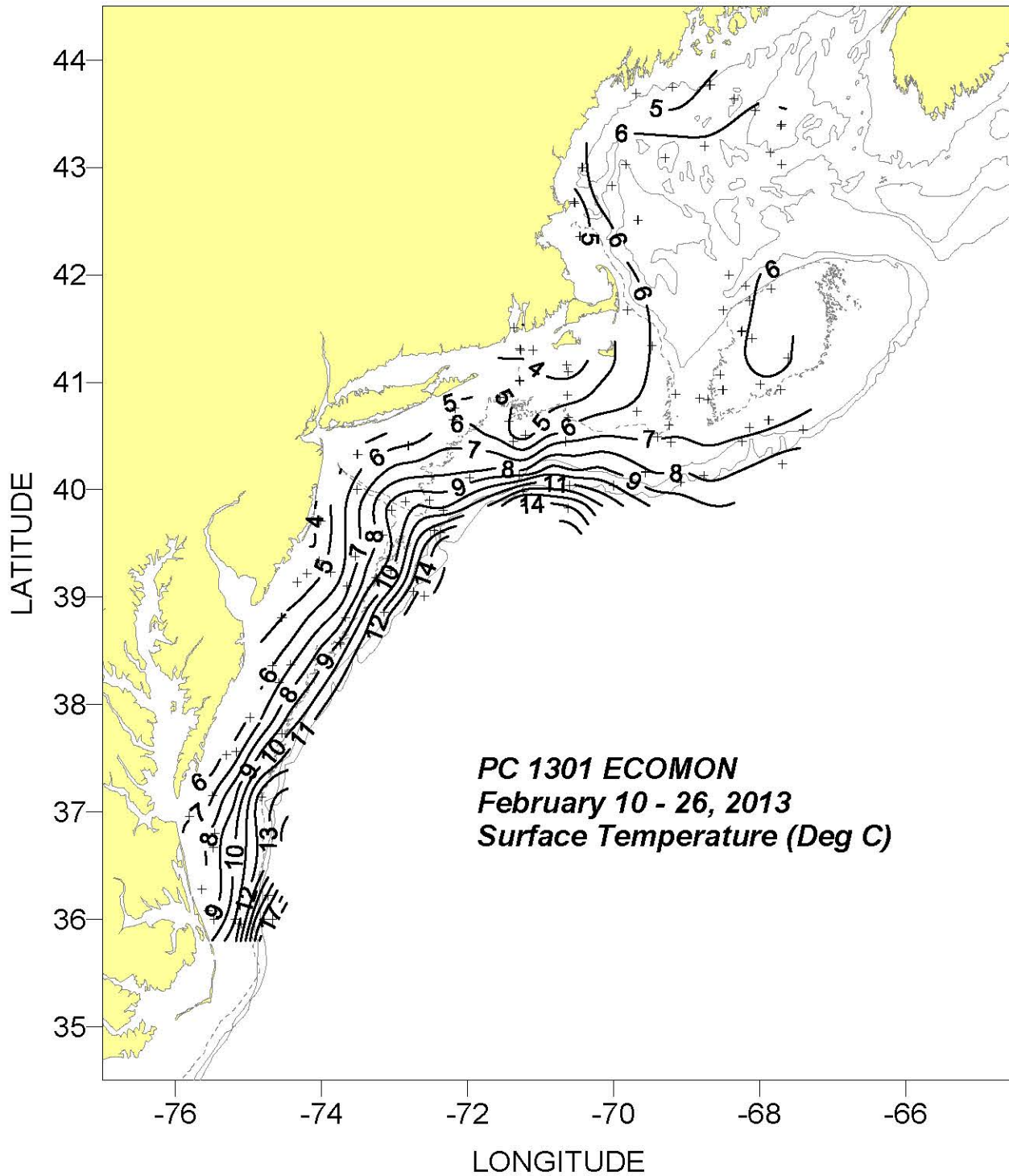
"CRUISE", the code name for a cruise: "CD", the calendar mid-date of all the stations within a region for a cruise:

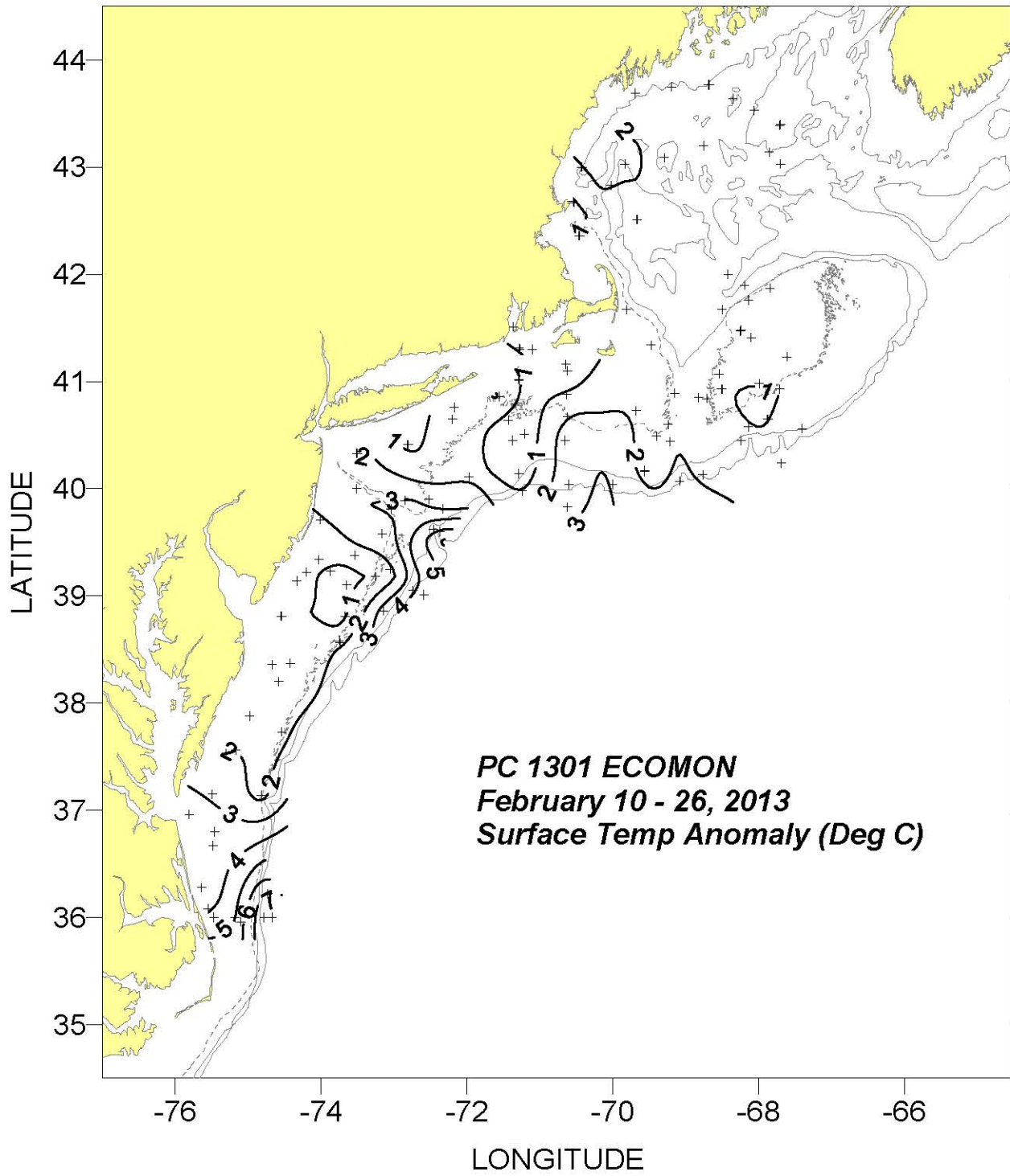
"#obs", the number of observations include in each average: "T/S", the areal average temp/salt: "Anomaly", the areal average temp/salt anomaly:

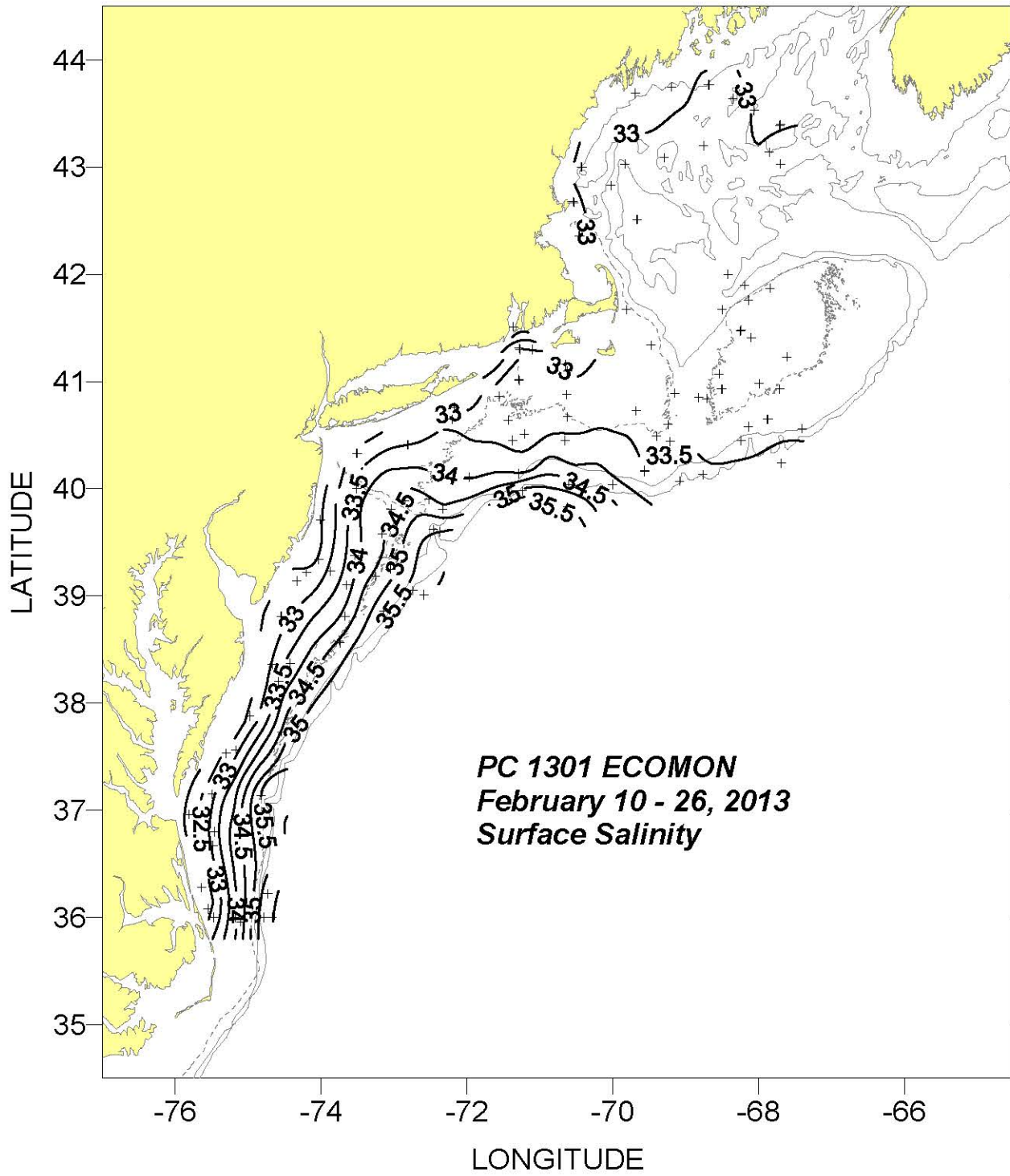
"SDV1", the standard deviation associated with the average temp/salt anomaly: "SDV2", the standard deviation of the individual anomalies from which the average anomaly was derived

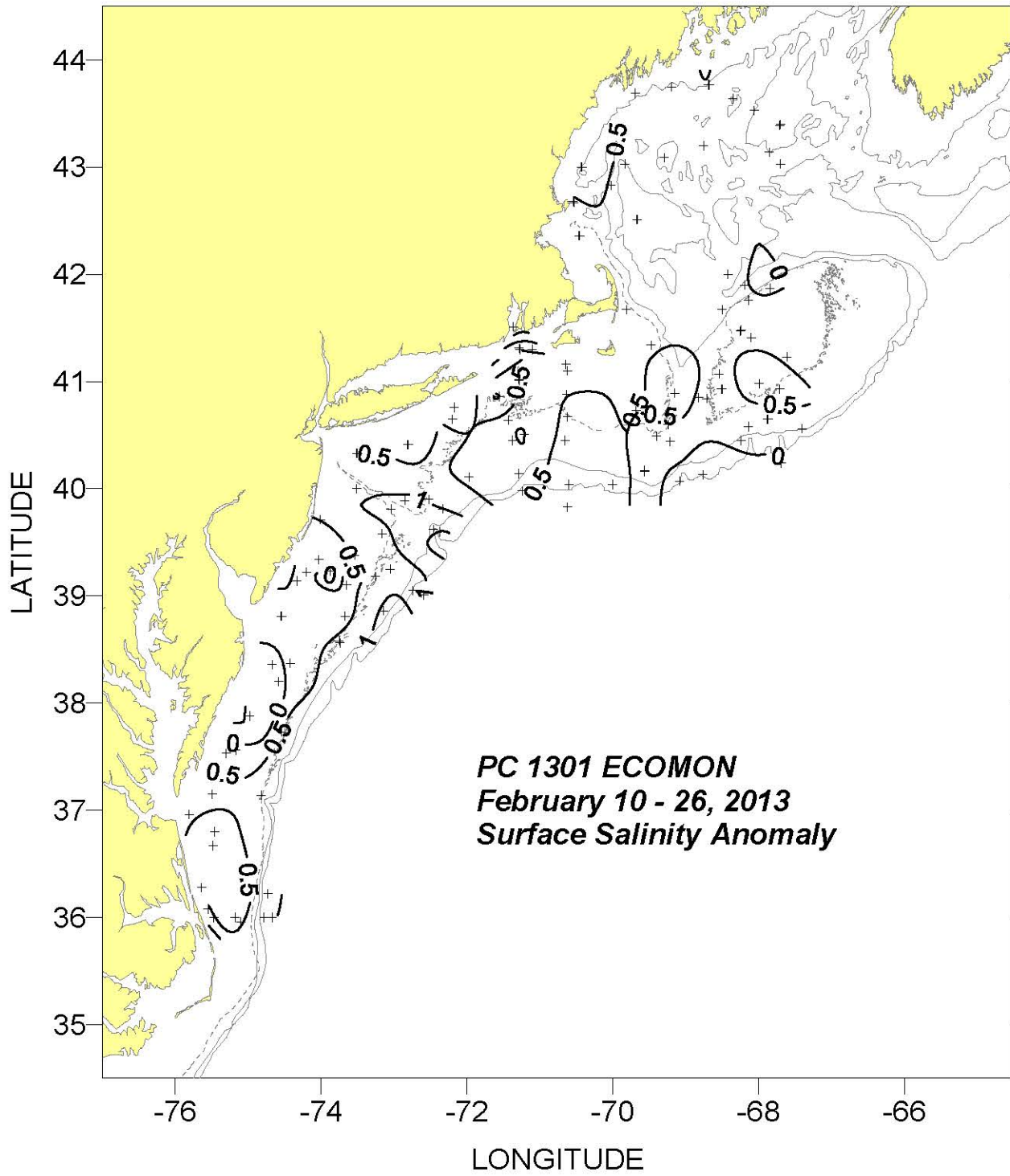
"Flag", a value of "1" indicates that a true areal average could not be calculated due to poor station coverage. The areal averages listed were derived from a simple average of the observations within the region.

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

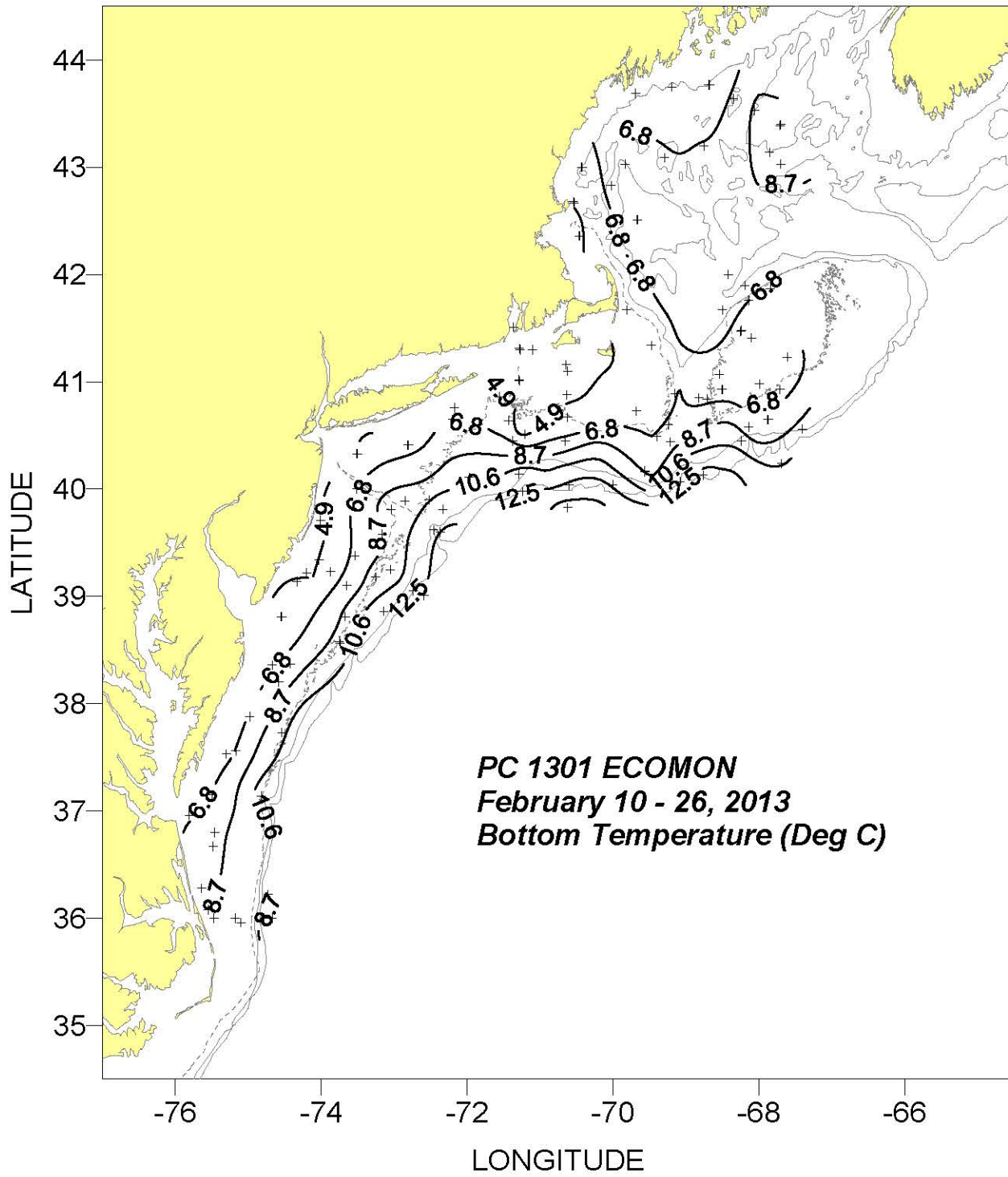


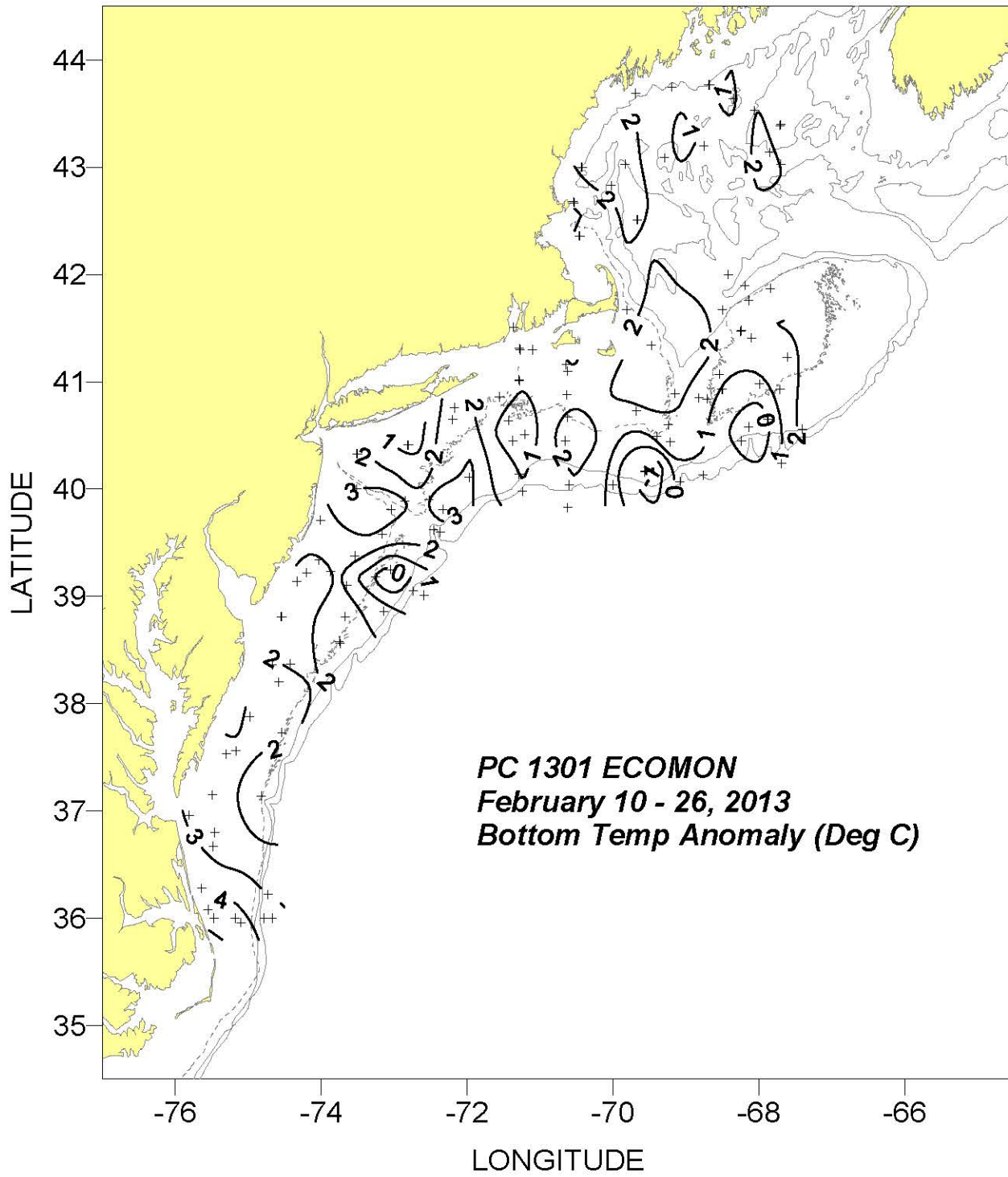


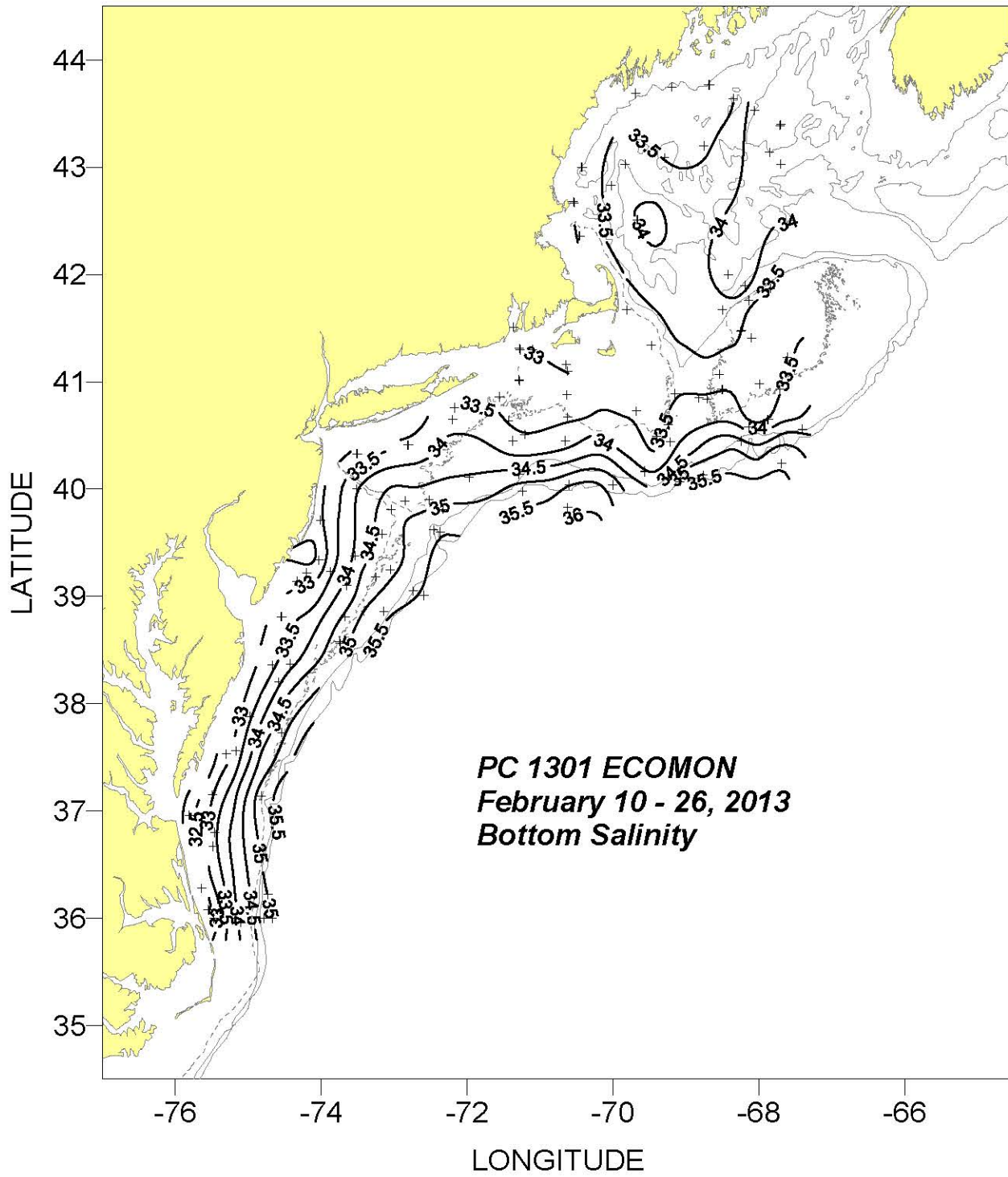


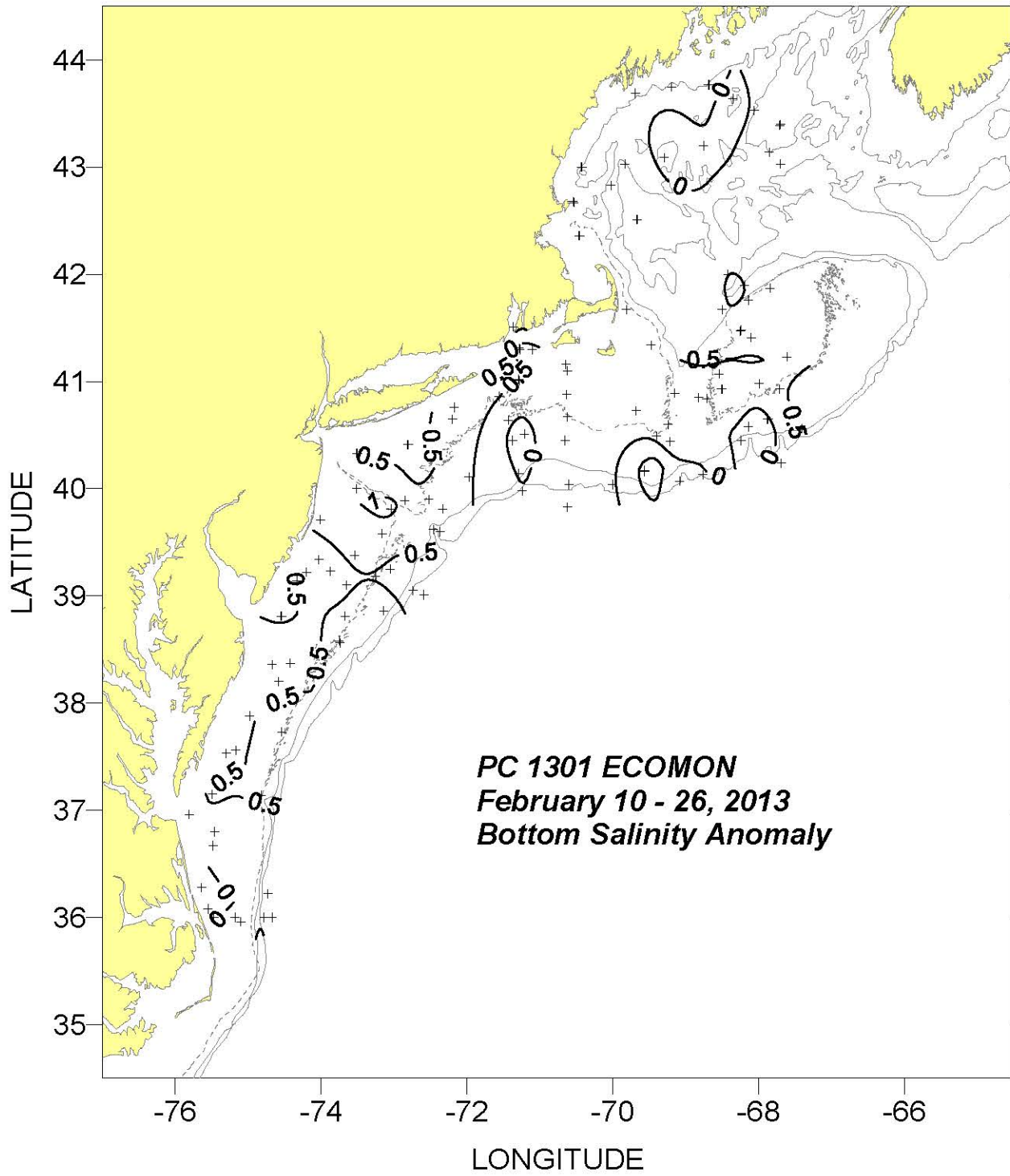












**PC1301 ECOMON/NASA**  
**February 10 - 26, 2013**

Cast #	Sta #	Lat (deg N)	Long (deg W)	Day	Mo	Year	Time (GMT)	Btm Depth (m)	Sfc Temp (deg C)	Sfc Salt	Deepest	Deepest	Meters from Bottom	Method of Deployment
											Observed Temp (deg C)	Observed Salt		
001	1	3657.5	7548.4	10	2	2013	18:37	14	7.18	32.07	6.75	32.07	3	B
002	2	3648.1	7527.5	10	2	2013	20:34	20	8.36	33.24	7.92	33.34	2	B
003	3	3640.3	7528.7	10	2	2013	21:23	25	8.58	33.58	8.22	33.63	3	B
<b>001</b>	<b>3</b>	<b>3640.1</b>	<b>7528.9</b>	<b>10</b>	<b>2</b>	<b>2013</b>	<b>21:58</b>	<b>26</b>	<b>8.50</b>	<b>33.57</b>	<b>8.21</b>	<b>33.62</b>	<b>4</b>	<b>W</b>
004	4	3616.7	7538.3	11	2	2013	0:10	22	7.43	31.55	7.66	32.29	3	B
005	5	3605.0	7532.7	11	2	2013	1:25	24	8.23	32.24	8.33	32.26	3	B
<b>002</b>	<b>6</b>	<b>3600.1</b>	<b>7528.1</b>	<b>11</b>	<b>2</b>	<b>2013</b>	<b>2:15</b>	<b>24</b>	<b>9.24</b>	<b>32.85</b>	<b>9.41</b>	<b>32.93</b>	<b>1</b>	<b>W</b>
<b>003</b>	<b>7</b>	<b>3600.1</b>	<b>7510.6</b>	<b>11</b>	<b>2</b>	<b>2013</b>	<b>3:46</b>	<b>35</b>	<b>10.72</b>	<b>33.86</b>	<b>10.94</b>	<b>34.02</b>	<b>1</b>	<b>W</b>
006	8	3557.7	7506.2	11	2	2013	4:20	29	10.80	34.00	10.92	34.06	2	B
<b>004</b>	<b>9</b>	<b>3600.1</b>	<b>7446.6</b>	<b>11</b>	<b>2</b>	<b>2013</b>	<b>6:01</b>	<b>378</b>	<b>18.65</b>	<b>36.28</b>	<b>11.38</b>	<b>35.44</b>	<b>83</b>	<b>W</b>
<b>005</b>	<b>10</b>	<b>3559.9</b>	<b>7440.0</b>	<b>11</b>	<b>2</b>	<b>2013</b>	<b>6:55</b>	<b>1000</b>	<b>20.24</b>	<b>36.41</b>	<b>6.72</b>	<b>35.06</b>	<b>493</b>	<b>W</b>
007	11	3613.2	7443.9	11	2	2013	8:34	647	13.76	35.48	13.40	35.50	446	B
008	12	3708.2	7449.2	11	2	2013	13:43	57	12.61	35.54	11.55	35.34	6	B
<b>006</b>	<b>12</b>	<b>3708.4</b>	<b>7449.1</b>	<b>11</b>	<b>2</b>	<b>2013</b>	<b>14:10</b>	<b>58</b>	<b>12.89</b>	<b>35.59</b>	<b>11.56</b>	<b>35.34</b>	<b>5</b>	<b>W</b>
009	13	3708.7	7529.1	11	2	2013	17:22	24	6.71	32.87	6.78	32.98	4	B
010	15	3731.9	7517.9	11	2	2013	20:12	23	5.79	32.42	5.78	32.41	5	B
<b>008</b>	<b>15</b>	<b>3731.8</b>	<b>7517.7</b>	<b>11</b>	<b>2</b>	<b>2013</b>	<b>20:31</b>	<b>24</b>	<b>5.81</b>	<b>32.43</b>	<b>5.79</b>	<b>32.42</b>	<b>1</b>	<b>W</b>
011	16	3733.4	7509.9	11	2	2013	21:16	28	6.46	32.83	6.90	33.24	5	B
<b>009</b>	<b>17</b>	<b>3742.0</b>	<b>7415.8</b>	<b>12</b>	<b>2</b>	<b>2013</b>	<b>0:55</b>	<b>110</b>	<b>14.18</b>	<b>35.77</b>	<b>12.93</b>	<b>35.59</b>	<b>1</b>	<b>W</b>
012	18	3743.9	7432.6	12	2	2013	2:16	56	9.52	34.73	9.62	34.78	4	B
<b>010</b>	<b>19</b>	<b>3750.6</b>	<b>7434.6</b>	<b>12</b>	<b>2</b>	<b>2013</b>	<b>3:12</b>	<b>54</b>	<b>9.06</b>	<b>34.53</b>	<b>9.72</b>	<b>34.77</b>	<b>1</b>	<b>W</b>
013	20	3752.7	7458.5	12	2	2013	5:09	20	5.76	32.18	6.86	33.48	3	B
<b>011</b>	<b>21</b>	<b>3759.9</b>	<b>7457.4</b>	<b>12</b>	<b>2</b>	<b>2013</b>	<b>6:07</b>	<b>20</b>	<b>5.87</b>	<b>32.52</b>	<b>6.32</b>	<b>33.12</b>	<b>2</b>	<b>W</b>
014	22	3811.9	7435.0	12	2	2013	8:03	40	7.00	33.60	7.92	34.05	3	B
015	23	3821.7	7440.3	12	2	2013	9:19	27	6.02	32.96	6.50	33.39	3	B
016	24	3822.2	7425.1	12	2	2013	10:40	37	6.76	33.68	7.16	33.80	5	B
017	25	3848.7	7432.6	12	2	2013	13:10	20	4.82	32.77	5.72	33.29	4	B
<b>012</b>	<b>25</b>	<b>3848.4</b>	<b>7433.0</b>	<b>12</b>	<b>2</b>	<b>2013</b>	<b>13:30</b>	<b>20</b>	<b>5.35</b>	<b>33.08</b>	<b>5.88</b>	<b>33.36</b>	<b>1</b>	<b>W</b>
018	26	3834.7	7344.7	12	2	2013	17:07	56	9.23	34.62	9.40	34.69	7	B
<b>013</b>	<b>26</b>	<b>3833.6</b>	<b>7344.2</b>	<b>12</b>	<b>2</b>	<b>2013</b>	<b>18:28</b>	<b>56</b>	<b>9.30</b>	<b>34.64</b>	<b>9.37</b>	<b>34.68</b>	<b>4</b>	<b>W</b>
019	27	3848.4	7340.0	12	2	2013	20:07	53	7.75	34.08	9.18	34.72	4	B
020	28	3851.7	7308.1	12	2	2013	22:25	70	12.83	35.54	12.69	35.51	2	B

**PC1301 ECOMON/NASA**  
**February 10 - 26, 2013**

Cast #	Sta #	Lat (deg N)	Long (deg W)	Day	Mo	Year	Time (GMT)	Btm Depth (m)	Sfc Temp (deg C)	Sfc Salt	Deepest	Deepest	Meters	Method
											Observed Temp (deg C)	Observed Salt	from Bottom	of Deployment
<b>014</b>	<b>28</b>	<b>3851.4</b>	<b>7308.6</b>	<b>12</b>	<b>2</b>	<b>2013</b>	<b>22:55</b>	<b>72</b>	<b>12.80</b>	<b>35.53</b>	<b>12.71</b>	<b>35.51</b>	<b>3</b>	<b>W</b>
<b>015</b>	<b>29</b>	<b>3900.7</b>	<b>7235.1</b>	<b>13</b>	<b>2</b>	<b>2013</b>	<b>1:40</b>	<b>1000</b>	<b>14.19</b>	<b>35.73</b>	<b>5.86</b>	<b>35.03</b>	<b>493</b>	<b>W</b>
<b>016</b>	<b>30</b>	<b>3903.2</b>	<b>7244.5</b>	<b>13</b>	<b>2</b>	<b>2013</b>	<b>2:55</b>	<b>198</b>	<b>14.17</b>	<b>35.75</b>	<b>11.76</b>	<b>35.36</b>	<b>1</b>	<b>W</b>
021	31	3937.4	7227.5	13	2	2013	6:46	89	13.18	35.62	12.84	35.55	3	B
022	32	3935.7	7222.1	13	2	2013	7:31	96	14.38	35.84	12.66	35.49	3	B
023	33	3948.7	7219.5	13	2	2013	8:55	77	10.09	34.58	12.01	35.20	5	B
024	34	3954.0	7231.1	13	2	2013	10:01	61	9.25	34.44	9.54	34.54	6	B
025	35	3953.6	7251.2	13	2	2013	11:37	49	10.05	34.95	10.26	35.01	4	B
<b>017</b>	<b>36</b>	<b>3948.3</b>	<b>7302.2</b>	<b>13</b>	<b>2</b>	<b>2013</b>	<b>15:46</b>	<b>63</b>	<b>9.46</b>	<b>34.81</b>	<b>9.86</b>	<b>34.94</b>	<b>5</b>	<b>W</b>
026	37	3934.6	7309.8	13	2	2013	17:13	38	7.85	34.26	8.22	34.42	6	B
<b>018</b>	<b>37</b>	<b>3934.9</b>	<b>7309.7</b>	<b>13</b>	<b>2</b>	<b>2013</b>	<b>17:49</b>	<b>37</b>	<b>7.84</b>	<b>34.26</b>	<b>8.23</b>	<b>34.42</b>	<b>5</b>	<b>W</b>
027	38	3915.0	7303.0	13	2	2013	19:37	65	9.15	34.72	9.16	34.72	4	B
028	39	3910.7	7314.8	13	2	2013	20:42	57	8.95	34.67	9.14	34.73	2	B
029	41	3922.9	7332.2	13	2	2013	23:04	42	7.17	34.09	7.55	34.25	3	B
030	42	3905.7	7339.0	14	2	2013	0:52	45	6.45	33.63	7.55	34.11	5	B
031	43	3914.0	7352.2	14	2	2013	2:10	34	5.33	33.15	5.69	33.35	5	B
032	44	3908.5	7419.7	14	2	2013	4:16	22	5.12	32.88	5.14	32.89	3	B
033	45	3913.1	7411.8	14	2	2013	5:19	22	4.52	32.53	4.58	32.56	2	B
034	46	3920.6	7401.8	14	2	2013	6:33	22	3.97	32.26	4.11	32.36	3	B
<b>020</b>	<b>47</b>	<b>3942.5</b>	<b>7400.6</b>	<b>14</b>	<b>2</b>	<b>2013</b>	<b>9:19</b>	<b>18</b>	<b>4.15</b>	<b>32.17</b>	<b>4.65</b>	<b>32.90</b>	<b>3</b>	<b>W</b>
035	48	3960.0	7330.7	14	2	2013	12:04	40	7.05	34.00	7.44	34.17	8	B
036	49	4019.9	7330.0	14	2	2013	13:56	26	4.97	32.95	5.22	33.05	5	B
<b>021</b>	<b>49</b>	<b>4019.9</b>	<b>7330.5</b>	<b>14</b>	<b>2</b>	<b>2013</b>	<b>14:18</b>	<b>25</b>	<b>4.98</b>	<b>32.94</b>	<b>5.12</b>	<b>33.00</b>	<b>4</b>	<b>W</b>
037	50	4024.7	7248.3	14	2	2013	17:07	42	5.66	33.45	5.57	33.47	9	B
<b>022</b>	<b>50</b>	<b>4024.7</b>	<b>7248.1</b>	<b>14</b>	<b>2</b>	<b>2013</b>	<b>18:06</b>	<b>40</b>	<b>5.66</b>	<b>33.44</b>	<b>5.59</b>	<b>33.47</b>	<b>4</b>	<b>W</b>
038	51	4045.5	7209.9	14	2	2013	21:32	43	5.09	32.70	6.59	33.74	4	B
<b>023</b>	<b>52</b>	<b>4039.1</b>	<b>7211.9</b>	<b>14</b>	<b>2</b>	<b>2013</b>	<b>23:00</b>	<b>46</b>	<b>6.46</b>	<b>33.58</b>	<b>7.37</b>	<b>33.98</b>	<b>5</b>	<b>W</b>
039	53	4006.8	7158.1	15	2	2013	3:45	77	8.24	33.80	9.94	34.46	3	B
040	54	3958.6	7114.2	15	2	2013	7:05	320	14.54	35.83	13.07	35.58	117	B
041	55	4008.4	7117.5	15	2	2013	8:28	97	8.05	33.71	11.96	34.90	7	B
<b>024</b>	<b>56</b>	<b>4002.2</b>	<b>7036.1</b>	<b>15</b>	<b>2</b>	<b>2013</b>	<b>11:40</b>	<b>161</b>	<b>10.24</b>	<b>34.43</b>	<b>13.94</b>	<b>35.61</b>	<b>1</b>	<b>W</b>
<b>025</b>	<b>57</b>	<b>3950.0</b>	<b>7037.1</b>	<b>15</b>	<b>2</b>	<b>2013</b>	<b>14:55</b>	<b>857</b>	<b>14.98</b>	<b>35.75</b>	<b>6.39</b>	<b>35.05</b>	<b>352</b>	<b>W</b>

**PC1301 ECOMON/NASA**  
**February 10 - 26, 2013**

Cast #	Sta #	Lat (deg N)	Long (deg W)	Day	Mo	Year	Time (GMT)	Btm Depth (m)	Sfc Temp (deg C)	Sfc Salt	Deepest	Deepest	Meters	Method
											Observed Temp (deg C)	Observed Salt	from Bottom	of Deployment
<b>026</b>	<b>58</b>	<b>4002.4</b>	<b>7000.0</b>	<b>15</b>	<b>2</b>	<b>2013</b>	<b>18:51</b>	<b>145</b>	<b>10.15</b>	<b>34.23</b>	<b>13.46</b>	<b>35.54</b>	<b>3</b>	<b>W</b>
042	59	4010.0	6933.7	15	2	2013	22:46	88	7.87	33.35	6.68	33.30	5	B
<b>027</b>	<b>59</b>	<b>4009.8</b>	<b>6933.6</b>	<b>15</b>	<b>2</b>	<b>2013</b>	<b>23:08</b>	<b>87</b>	<b>7.89</b>	<b>33.34</b>	<b>7.77</b>	<b>33.50</b>	<b>2</b>	<b>W</b>
043	60	4004.1	6905.0	16	2	2013	1:25	164	8.61	33.77	13.14	35.45	1	B
044	61	4007.7	6845.3	16	2	2013	3:10	162	7.69	33.56	13.24	35.50	3	B
045	62	4027.0	6814.3	16	2	2013	5:58	114	7.15	33.33	10.93	34.95	3	B
<b>028</b>	<b>63</b>	<b>4014.6</b>	<b>6741.5</b>	<b>16</b>	<b>2</b>	<b>2013</b>	<b>8:31</b>	<b>969</b>	<b>8.61</b>	<b>33.77</b>	<b>6.05</b>	<b>35.03</b>	<b>462</b>	<b>W</b>
<b>029</b>	<b>64</b>	<b>4022.6</b>	<b>6741.4</b>	<b>16</b>	<b>2</b>	<b>2013</b>	<b>9:43</b>	<b>281</b>	<b>7.68</b>	<b>33.52</b>	<b>9.58</b>	<b>35.25</b>	<b>1</b>	<b>W</b>
046	65	4033.7	6724.2	16	2	2013	11:33	108	7.27	33.32	9.68	34.24	6	B
<b>030</b>	<b>66</b>	<b>4055.7</b>	<b>6742.6</b>	<b>16</b>	<b>2</b>	<b>2013</b>	<b>13:58</b>	<b>64</b>	<b>6.17</b>	<b>33.40</b>	<b>6.17</b>	<b>33.41</b>	<b>6</b>	<b>W</b>
047	67	4058.7	6759.6	16	2	2013	15:15	52	6.07	33.46	5.98	33.45	5	B
048	68	4039.0	6752.1	16	2	2013	17:02	82	6.49	33.21	6.31	33.23	7	B
<b>031</b>	<b>68</b>	<b>4039.2</b>	<b>6752.9</b>	<b>16</b>	<b>2</b>	<b>2013</b>	<b>17:47</b>	<b>81</b>	<b>6.47</b>	<b>33.21</b>	<b>6.29</b>	<b>33.23</b>	<b>4</b>	<b>W</b>
049	69	4035.0	6808.5	16	2	2013	18:58	91	6.88	33.25	6.99	33.34	4	B
050	70	4050.2	6842.6	16	2	2013	21:31	59	6.22	33.30	6.25	33.30	6	B
051	71	4055.6	6830.4	16	2	2013	22:40	44	5.90	33.37	5.90	33.37	7	B
<b>032</b>	<b>71</b>	<b>4055.6</b>	<b>6829.9</b>	<b>16</b>	<b>2</b>	<b>2013</b>	<b>23:04</b>	<b>43</b>	<b>5.90</b>	<b>33.37</b>	<b>5.90</b>	<b>33.37</b>	<b>5</b>	<b>W</b>
052	72	4104.3	6832.1	17	2	2013	0:01	51	6.53	33.41	6.50	33.42	2	B
053	73	4120.4	6928.4	17	2	2013	3:43	34	6.08	33.30	6.08	33.30	4	B
054	74	4139.9	6948.3	17	2	2013	5:52	31	5.49	33.21	5.51	33.21	5	B
055	75	4221.5	7027.4	19	2	2013	15:26	74	4.85	33.06	4.81	33.07	7	B
<b>033</b>	<b>75</b>	<b>4221.6</b>	<b>7026.8</b>	<b>19</b>	<b>2</b>	<b>2013</b>	<b>15:51</b>	<b>81</b>	<b>4.87</b>	<b>33.06</b>	<b>4.81</b>	<b>33.06</b>	<b>4</b>	<b>W</b>
056	76	4240.1	7031.9	19	2	2013	17:31	79	3.86	32.67	4.56	33.06	5	B
<b>034</b>	<b>76</b>	<b>4240.9</b>	<b>7032.3</b>	<b>19</b>	<b>2</b>	<b>2013</b>	<b>18:21</b>	<b>72</b>	<b>3.61</b>	<b>32.64</b>	<b>5.03</b>	<b>33.07</b>	<b>4</b>	<b>W</b>
057	78	4259.8	7025.6	19	2	2013	22:34	99	6.64	33.42	6.69	33.43	1	B
<b>035</b>	<b>78</b>	<b>4259.7</b>	<b>7024.9</b>	<b>19</b>	<b>2</b>	<b>2013</b>	<b>22:58</b>	<b>104</b>	<b>6.64</b>	<b>33.41</b>	<b>6.71</b>	<b>33.44</b>	<b>3</b>	<b>W</b>
058	79	4249.9	7001.3	20	2	2013	0:49	153	6.96	33.45	6.94	33.46	3	B
059	80	4301.8	6949.9	20	2	2013	2:19	181	6.88	33.39	8.03	33.84	2	B
060	81	4305.5	6917.3	20	2	2013	4:37	172	6.88	33.34	6.87	33.36	2	B
061	82	4312.2	6844.9	20	2	2013	6:54	162	6.18	33.03	6.91	33.36	10	B
062	83	4308.4	6751.0	20	2	2013	10:23	193	6.18	32.97	9.28	34.29	5	B
063	84	4302.0	6742.1	20	2	2013	11:48	170	6.41	33.12	9.11	34.41	5	B

**PC1301 ECOMON/NASA**  
**February 10 - 26, 2013**

Cast #	Sta #	Lat (deg N)	Long (deg W)	Day	Mo	Year	Time (GMT)	Btm Depth (m)	Sfc Temp (deg C)	Sfc Salt	Deepest	Deepest	Meters from Bottom	Method of Deployment
											Observed Temp (deg C)	Observed Salt		
064	85	4324.0	6742.0	20	2	2013	14:16	240	6.10	32.97	9.10	34.36	37	B
065	85	4323.1	6742.6	20	2	2013	14:41	241	6.11	32.97	9.17	34.46	2	V
066	86	4332.0	6803.7	20	2	2013	16:37	195	6.09	32.97	9.19	34.40	6	B
067	87	4338.6	6820.7	20	2	2013	18:06	181	5.80	33.10	6.94	33.41	3	B
068	88	4346.2	6840.2	20	2	2013	19:40	114	5.13	33.10	5.12	33.11	5	B
<b>036</b>	<b>88</b>	<b>4345.9</b>	<b>6841.3</b>	<b>20</b>	<b>2</b>	<b>2013</b>	<b>20:07</b>	<b>88</b>	<b>5.08</b>	<b>33.09</b>	<b>5.10</b>	<b>33.09</b>	<b>5</b>	<b>W</b>
069	89	4345.0	6911.5	20	2	2013	22:17	90	4.12	32.85	5.11	33.07	2	B
<b>037</b>	<b>89</b>	<b>4344.7</b>	<b>6911.8</b>	<b>20</b>	<b>2</b>	<b>2013</b>	<b>22:42</b>	<b>103</b>	<b>4.13</b>	<b>32.85</b>	<b>5.16</b>	<b>33.08</b>	<b>5</b>	<b>W</b>
070	90	4341.6	6941.2	21	2	2013	0:40	72	4.47	32.22	6.28	33.22	2	B
071	92	4230.3	6940.3	23	2	2013	0:40	236	6.73	33.42	8.44	34.17	33	B
<b>038</b>	<b>92</b>	<b>4230.5</b>	<b>6939.8</b>	<b>23</b>	<b>2</b>	<b>2013</b>	<b>1:16</b>	<b>234</b>	<b>6.74</b>	<b>33.42</b>	<b>8.32</b>	<b>34.30</b>	<b>1</b>	<b>W</b>
072	93	4200.2	6825.1	23	2	2013	6:22	171	6.83	33.49	8.19	33.99	3	B
073	94	4154.1	6811.1	23	2	2013	7:46	195	5.86	32.98	8.72	35.03	1	B
074	95	4152.3	6750.6	23	2	2013	9:30	32	5.82	32.92	5.93	32.96	4	B
075	96	4145.6	6808.6	23	2	2013	10:51	47	6.29	33.29	6.44	33.36	2	B
076	97	4140.0	6829.7	23	2	2013	12:23	162	6.59	33.38	8.31	34.04	4	B
077	98	4128.3	6815.0	23	2	2013	14:01	47	5.75	33.45	5.76	33.45	4	B
<b>039</b>	<b>98</b>	<b>4128.7</b>	<b>6814.6</b>	<b>23</b>	<b>2</b>	<b>2013</b>	<b>14:18</b>	<b>46</b>	<b>5.90</b>	<b>33.45</b>	<b>5.91</b>	<b>33.46</b>	<b>3</b>	<b>W</b>
078	99	4124.7	6805.8	23	2	2013	15:06	35	5.84	33.45	5.86	33.45	4	B
<b>040</b>	<b>100</b>	<b>4128.0</b>	<b>6741.3</b>	<b>23</b>	<b>2</b>	<b>2013</b>	<b>16:51</b>	<b>39</b>	<b>6.05</b>	<b>33.42</b>	<b>6.05</b>	<b>33.42</b>	<b>4</b>	<b>W</b>
079	101	4113.6	6736.7	23	2	2013	18:01	36	5.90	33.42	5.89	33.42	5	B
080	102	4051.0	6849.3	24	2	2013	0:38	71	6.19	33.43	6.32	33.46	4	B
<b>041</b>	<b>102</b>	<b>4049.7</b>	<b>6850.0</b>	<b>23</b>	<b>2</b>	<b>2013</b>	<b>22:37</b>	<b>68</b>	<b>6.49</b>	<b>33.48</b>	<b>6.54</b>	<b>33.49</b>	<b>3</b>	<b>W</b>
<b>042</b>	<b>103</b>	<b>4053.2</b>	<b>6909.1</b>	<b>24</b>	<b>2</b>	<b>2013</b>	<b>2:17</b>	<b>63</b>	<b>6.88</b>	<b>33.48</b>	<b>6.90</b>	<b>33.48</b>	<b>3</b>	<b>W</b>
081	104	4035.9	6914.3	24	2	2013	4:00	55	6.98	33.50	6.99	33.51	4	B
082	105	4026.2	6912.7	24	2	2013	5:01	76	6.87	33.49	6.89	33.50	4	B
083	106	4029.4	6923.7	24	2	2013	5:56	61	6.90	33.48	6.90	33.50	4	B
084	107	4043.8	6940.6	24	2	2013	7:35	43	6.05	33.42	6.04	33.43	5	B
<b>043</b>	<b>108</b>	<b>4105.8</b>	<b>7037.3</b>	<b>24</b>	<b>2</b>	<b>2013</b>	<b>11:55</b>	<b>42</b>	<b>3.30</b>	<b>32.81</b>	<b>3.38</b>	<b>32.85</b>	<b>6</b>	<b>W</b>
085	109	4109.5	7038.1	24	2	2013	12:53	39	3.20	32.79	3.28	32.84	6	B
086	110	4117.7	7106.2	24	2	2013	15:30	33	3.93	33.02	4.51	33.19	6	B
<b>044</b>	<b>111</b>	<b>4130.8</b>	<b>7121.3</b>	<b>24</b>	<b>2</b>	<b>2013</b>	<b>18:04</b>	<b>24</b>	<b>2.79</b>	<b>30.19</b>	<b>3.34</b>	<b>31.22</b>	<b>7</b>	<b>W</b>



**PC1301 ECOMON/NASA**  
**February 10 - 26, 2013**

Cast #	Sta #	Lat (deg N)	Long (deg W)	Day	Mo	Year	Time (GMT)	Btm Depth (m)	Sfc Temp (deg C)	Sfc Salt	Deepest Observed Temp (deg C)	Deepest Observed Salt	Meters from Bottom	Method of Deployment
087	112	4118.2	7116.1	25	2	2013	14:22	35	3.60	32.96	4.13	33.13	4	B
<b>045</b>	<b>112</b>	<b>4118.3</b>	<b>7116.5</b>	<b>25</b>	<b>2</b>	<b>2013</b>	<b>14:40</b>	<b>32</b>	<b>3.60</b>	<b>32.96</b>	<b>3.77</b>	<b>33.01</b>	<b>5</b>	<b>W</b>
088	113	4100.5	7116.9	25	2	2013	16:25	42	4.82	33.20	4.82	33.24	5	B
<b>046</b>	<b>113</b>	<b>4100.9</b>	<b>7117.6</b>	<b>25</b>	<b>2</b>	<b>2013</b>	<b>17:13</b>	<b>41</b>	<b>4.78</b>	<b>33.19</b>	<b>4.78</b>	<b>33.22</b>	<b>5</b>	<b>W</b>
089	114	4051.8	7133.7	25	2	2013	18:45	55	5.47	33.43	5.32	33.43	4	B
<b>047</b>	<b>115</b>	<b>4038.5</b>	<b>7125.9</b>	<b>25</b>	<b>2</b>	<b>2013</b>	<b>22:51</b>	<b>58</b>	<b>4.95</b>	<b>33.21</b>	<b>5.69</b>	<b>33.44</b>	<b>1</b>	<b>W</b>
090	116	4026.7	7122.0	26	2	2013	0:10	68	4.84	33.22	5.63	33.40	2	B
091	117	4030.5	7112.5	26	2	2013	1:10	70	4.39	33.20	4.37	33.20	3	B
092	118	4026.8	7039.0	26	2	2013	3:43	73	6.64	33.47	6.28	33.45	2	B
<b>048</b>	<b>119</b>	<b>4040.1</b>	<b>7037.4</b>	<b>26</b>	<b>2</b>	<b>2013</b>	<b>5:13</b>	<b>56</b>	<b>5.80</b>	<b>33.40</b>	<b>5.68</b>	<b>33.38</b>	<b>1</b>	<b>W</b>
093	120	4052.5	7037.6	26	2	2013	6:24	50	4.54	33.19	4.37	33.18	3	B

**data in bold are from SBE9/11+ (s/n 420)**

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