

Oceanography Branch CTD Data Report
CTD_REPORT_2010001S1

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

DATE: Revised: April 11, 2011

Oceanography Branch CTD Data Report

CTD_REPORT_2010001S1

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

S1 10-01
2010 Scallop Survey
Data Coverage: May12 – June 30, 2010
Mid Atlantic Bight and Georges Bank

This report presents a summary of surface and bottom temperature and salinity data collected during the Northeast Fisheries Science Center's 2010 Sea Scallop Survey aboard the UNOLSR/V *Hugh R. Sharp*. All data was obtained with the shipboard Seabird Electronics SBE Model 9/11+ CTD. No salinity correction was necessary.

The cast numbering was started at 001 for each leg making it necessary to rename all the files for processing. Leg I occurred on May 12 – May 21 and includes casts 101 – 157; Leg II took place on June 8 – June 19 and includes casts 201 – 250; and Leg III covered June 22 – June 30 while obtaining casts 301 – 337.

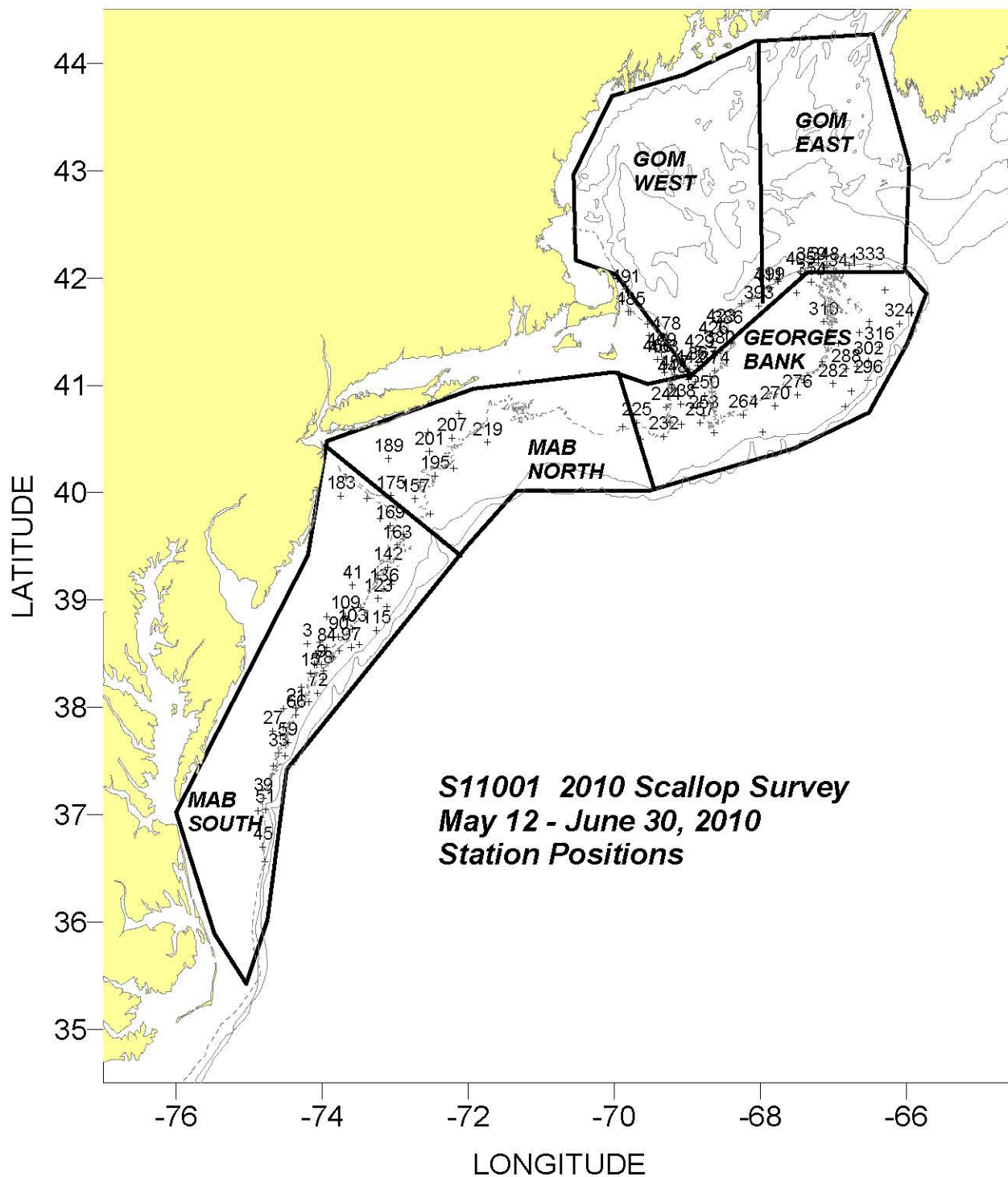
Data presented here have been audited, however, corrections and/or updates may be applied at a later time. The most recent and complete station data can be found in an NODC formatted ASCII file at:
<ftp://ftp.nefsc.noaa.gov/pub/hydro/s11001.dat>

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

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

choose: **2010 Cruises**
 MAY_SCALLOP_S11001
 CTD_REPORT_2010001S1

Revised: April 11, 2011



Areal average surface and bottom temperature/salinity and temperature/salinity anomalies for the 2010 S11001 Scallop Survey

		SURFACE						BOTTOM						
Cruise	CD	#obs	T/S	Anomaly	SDV1	SDV2	Flag	#obs	T/S	Anomaly	SDV1	SDV2	Flag	Purpose
Georges Bank														
s11001	167	49	12.13	1.51	0.17	1.72	0	46	9.15	0.87	0.18	1.94	0	60
s11001	167	49	32.16	-0.58	0.1	0.33	0	46	32.64	-0.39	0.11	0.38	0	60
Mid Atlantic Bight North														
s11001	156	14	14.59	1.48	0.34	1.92	1	14	7.15	0.3	0.33	2.26	1	60
s11001	156	14	31.67	-0.46	0.22	0.83	1	14	32.72	-0.28	0.2	0.55	1	60
Mid Atlantic Bight South														
s11001	136	52	12.66	0.16	0.18	0.75	1	51	6.99	-0.86	0.2	1.13	1	60
s11001	136	51	31.63	-1.03	0.13	0.41	1	51	33.16	-0.46	0.12	0.25	1	60

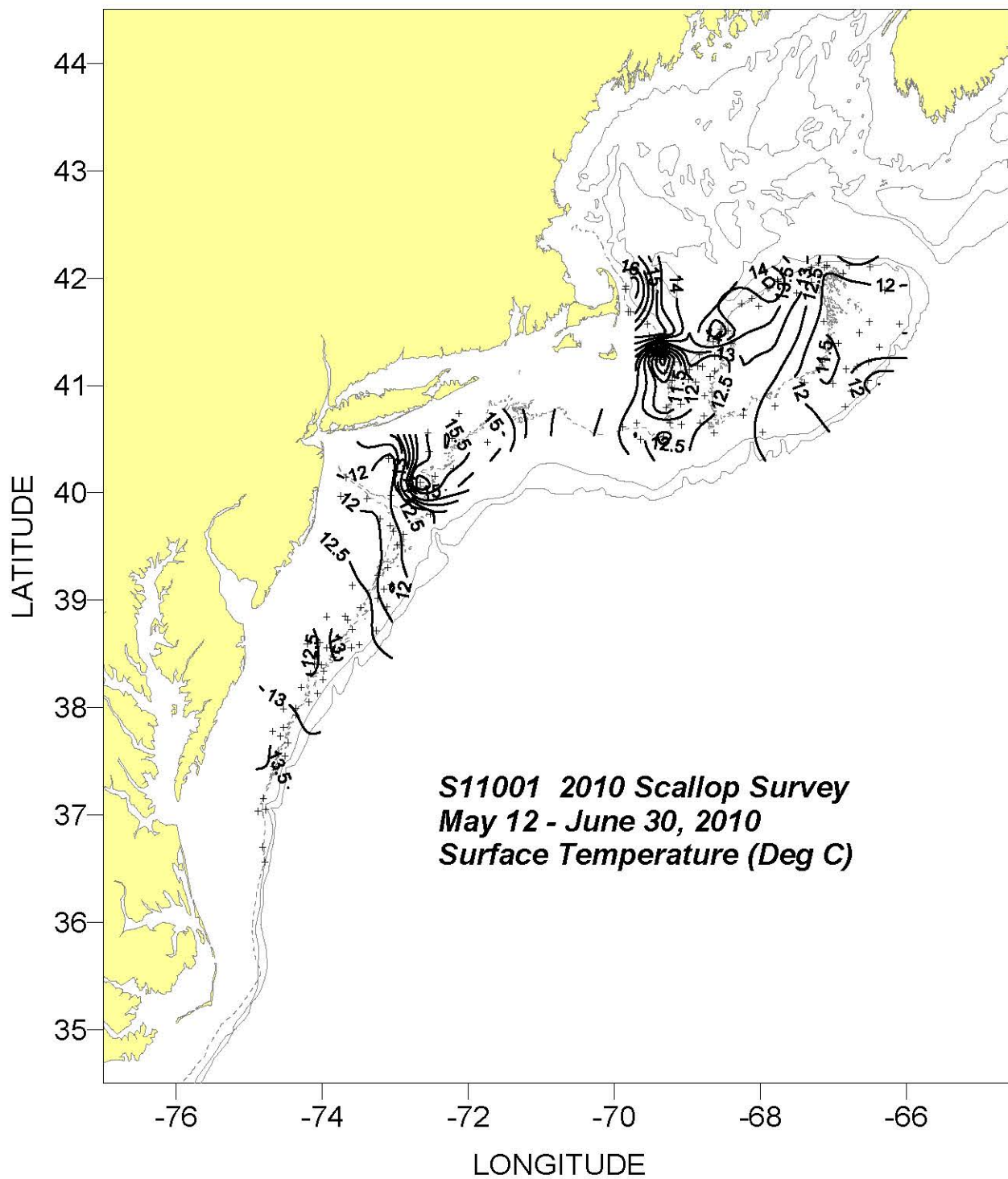
"CRUISE", the code name for a cruise: "CD", the calendar mid-date of all the stations within a region for a cruise:

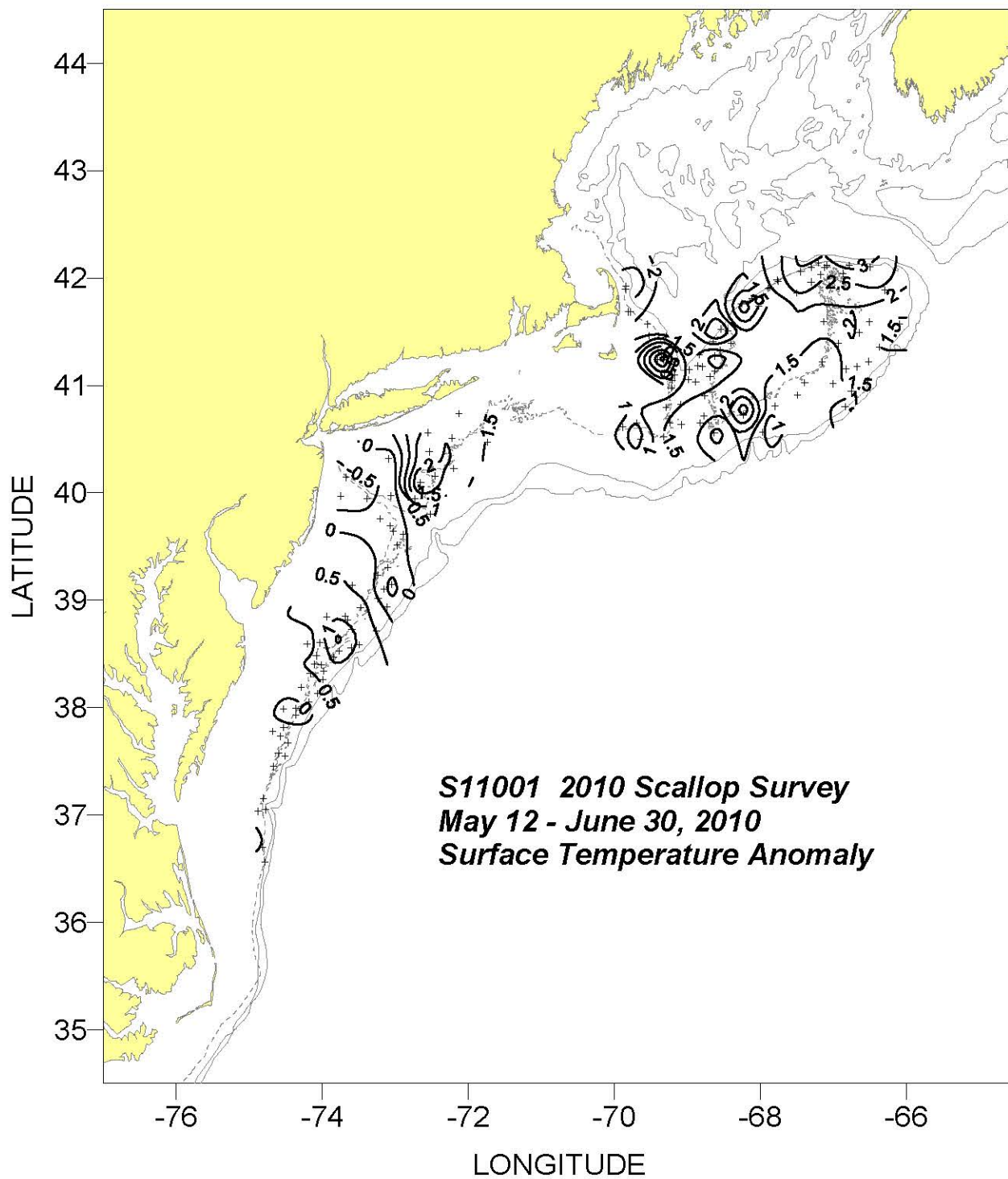
"#obs", the number of observations include in each average: "T/S", the areal average temp/salt: "Anomaly", the areal average temp/salt anomaly:

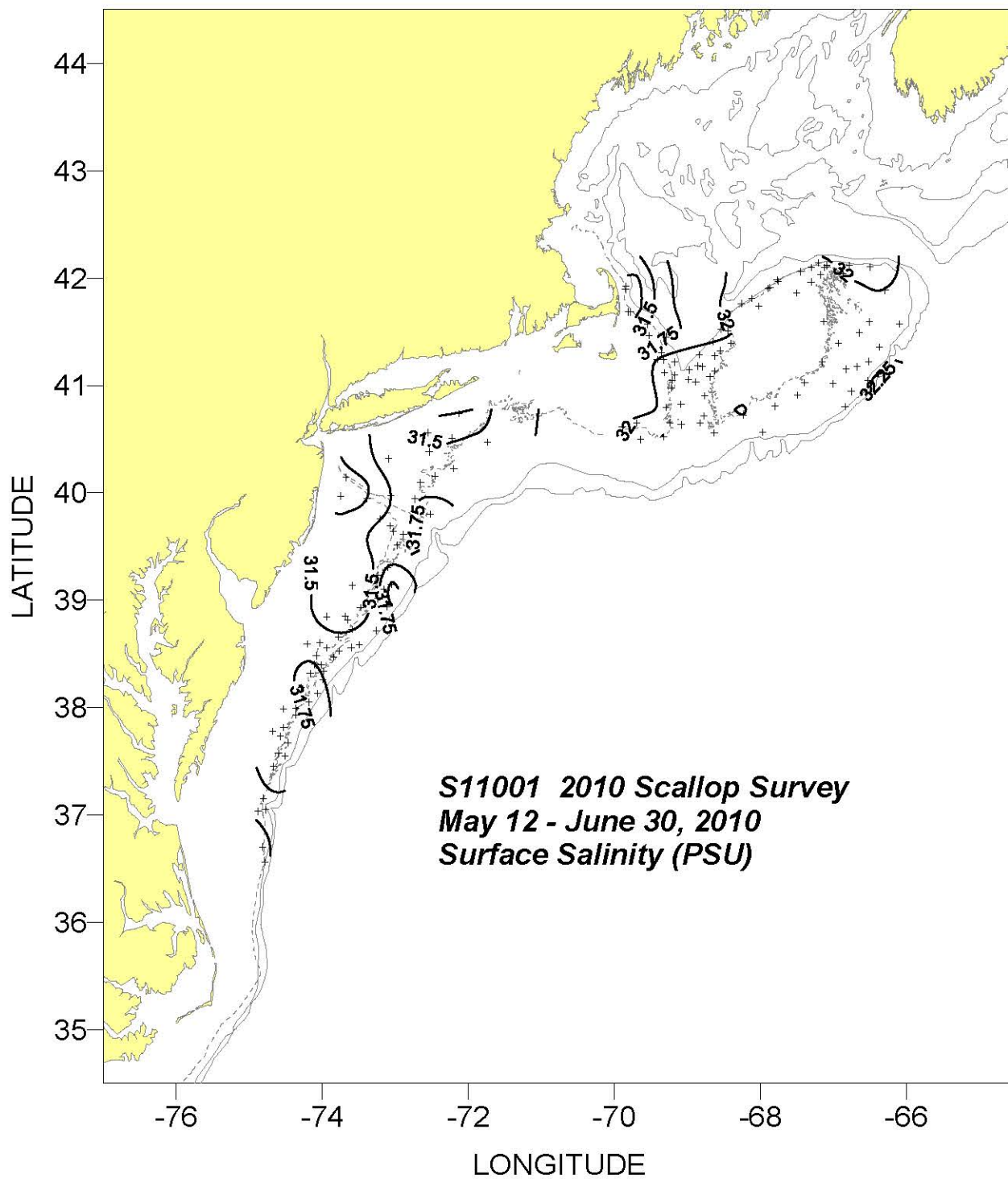
"SDV1", the standard deviation associated with the average temp/salt anomaly: "SDV2", the standard deviation of the individual anomalies from which the average anomaly was derived

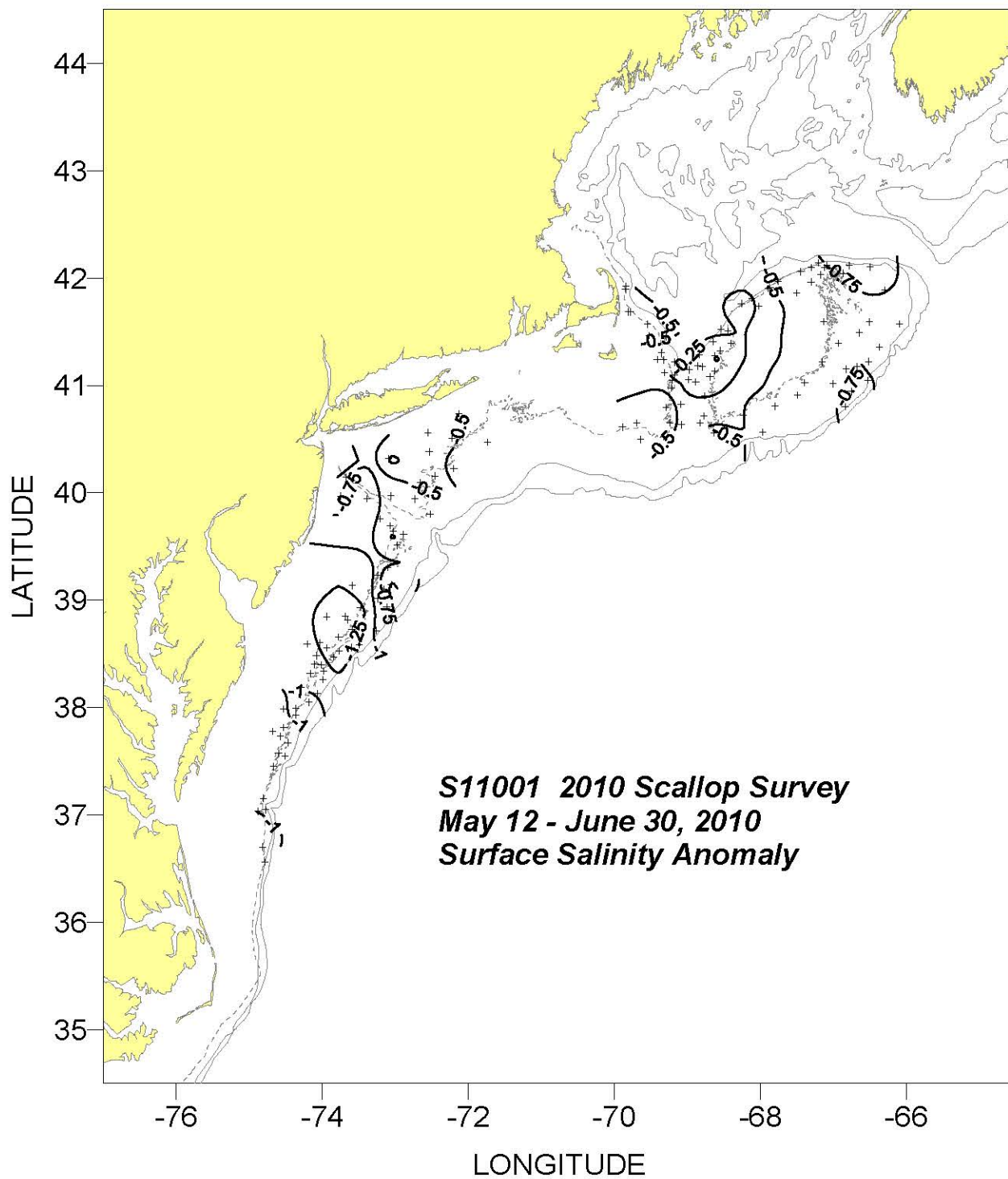
"Flag", a value of "1" indicates that a true areal average could not be calculated due to poor station coverage. The areal averages listed were derived from a simple average of the observations within the region.

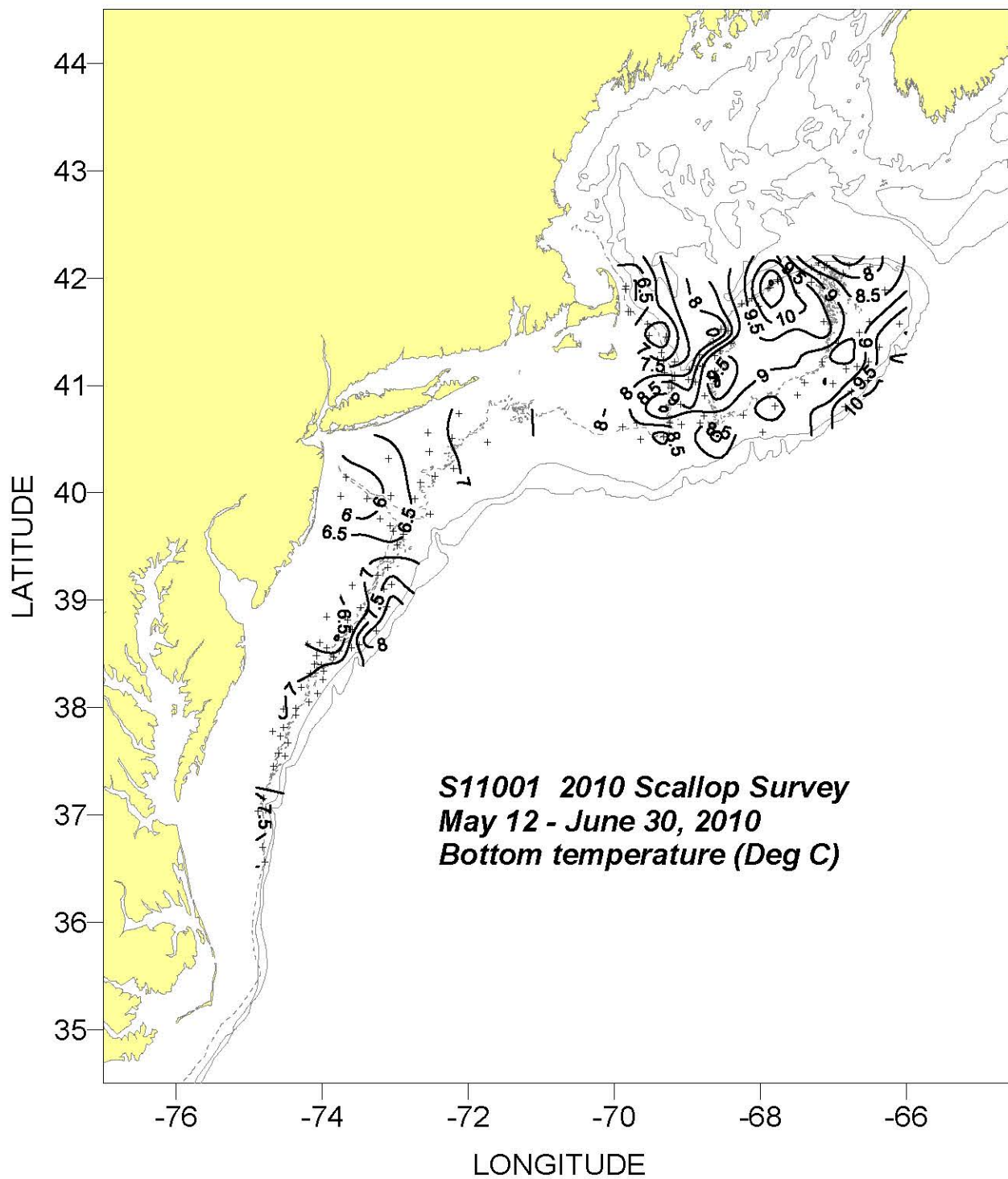
"Purpose", 2 digit code assigned by DMS to identify a unique NEFSC program survey.

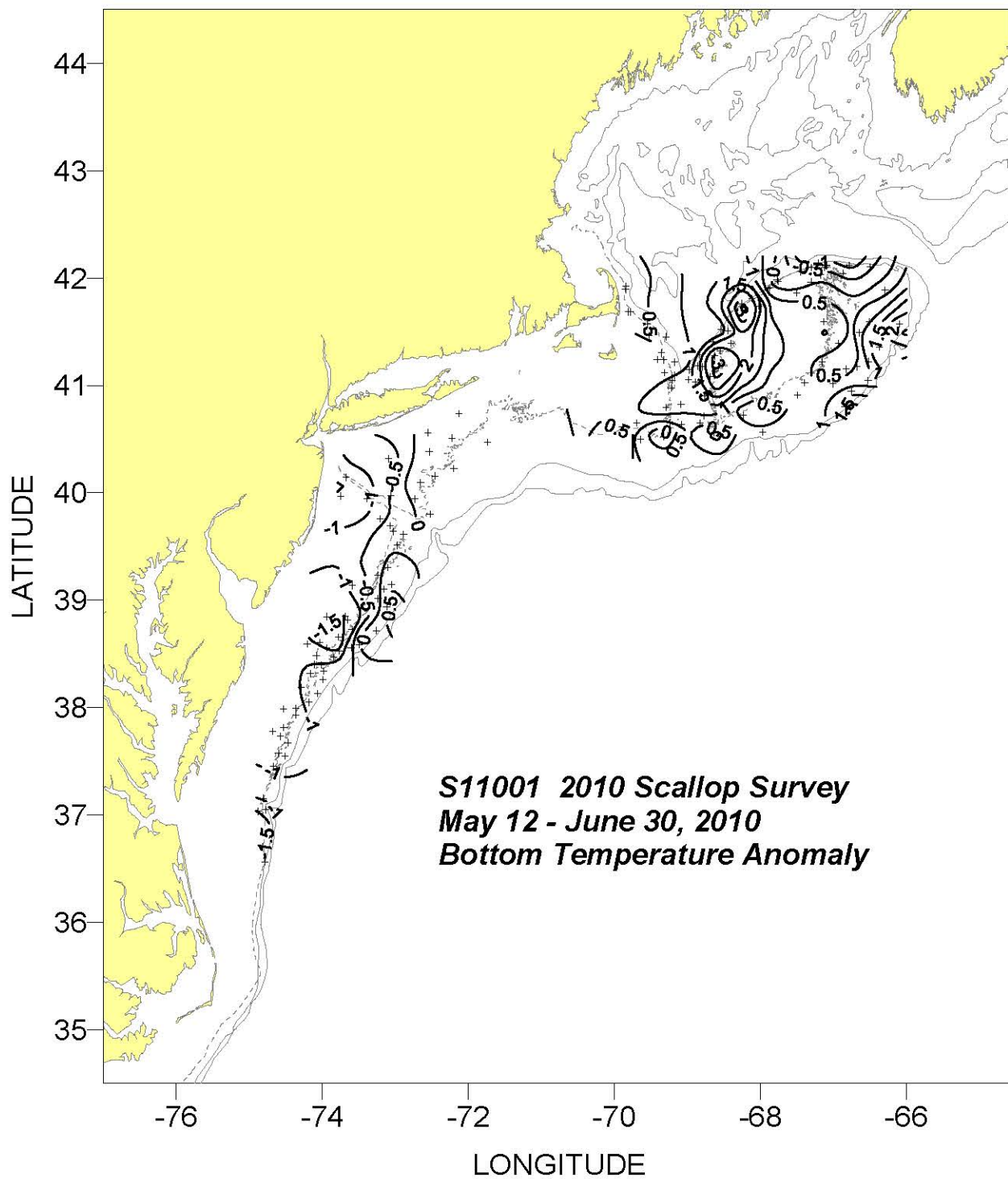


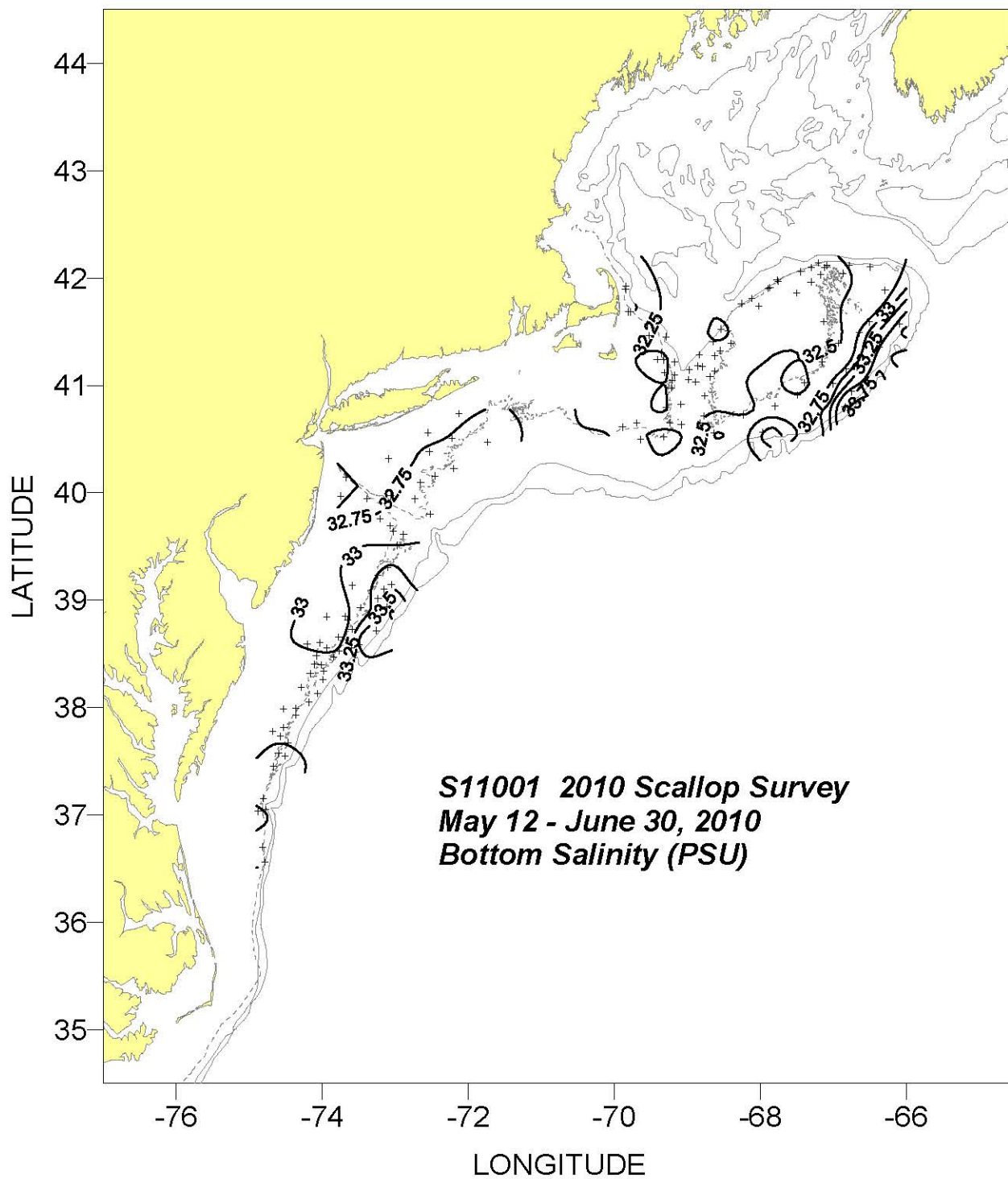


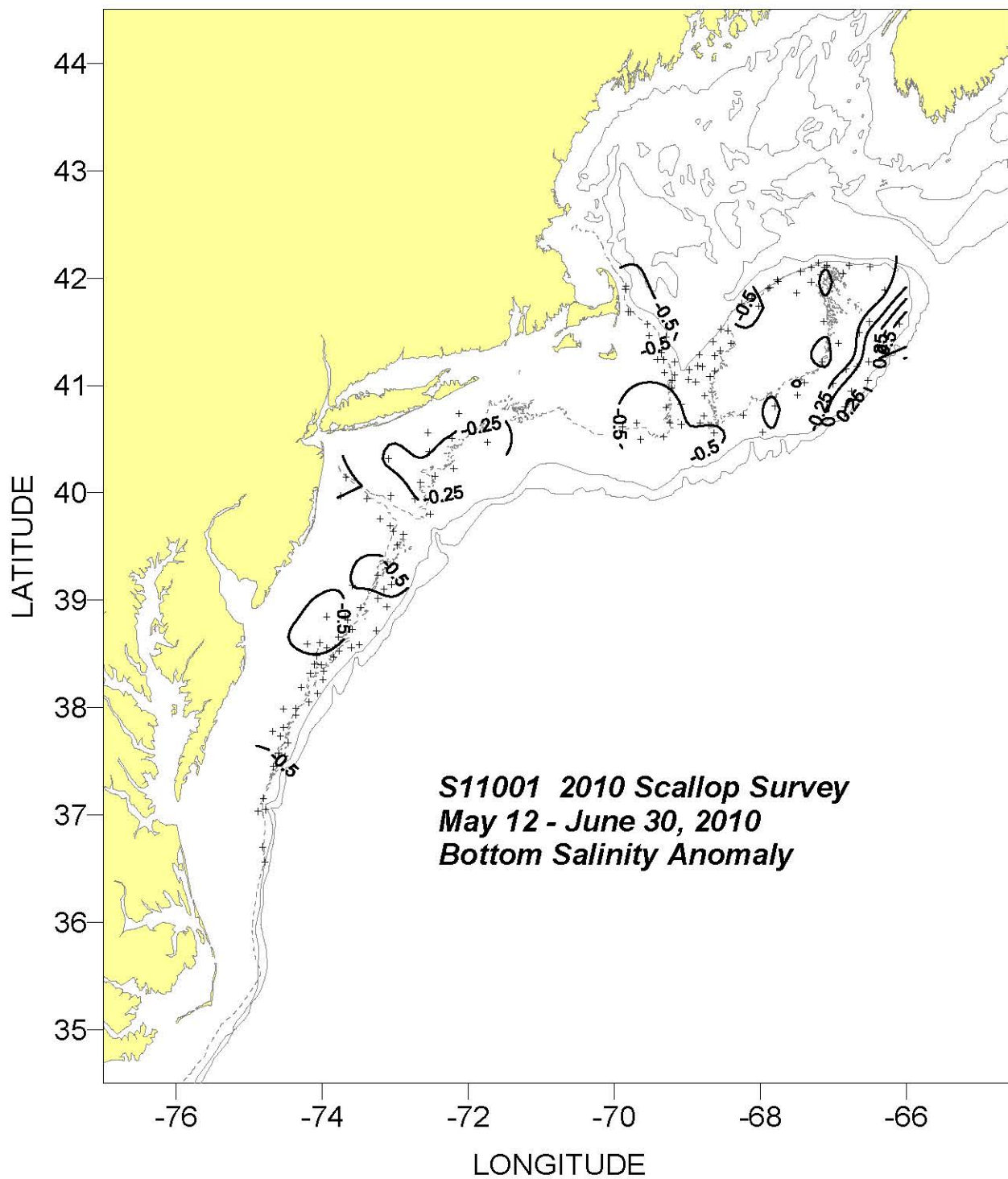












R/V Hugh R. Sharp 2010 Scallop Cruise S11001

12 May - 30 June, 2010

Cast #	Sta #	Lat	Long	Day	Mo	Year	Time (GMT)	Btm Depth(m)	Surface Temp	Surface Salt	Deepest Observation Temp	Deepest Observation Salt	Meters from Bottom
101	3	3835.6	7412.4	12	5	2010	7:07	50	11.81	31.40	6.02	32.69	5
102	6	3828.9	7404.8	12	5	2010	11:25	60	11.86	31.84	6.73	33.13	4
103	9	3823.9	7400.7	12	5	2010	14:46	61	11.85	32.05	6.94	33.21	2
104	12	3824.1	7406.1	12	5	2010	18:10	63	12.29	31.87	6.93	33.21	3
105	15	3819.1	7409.8	12	5	2010	22:23	58	12.28	31.69	6.98	33.21	4
106	18	3811.3	7417.1	13	5	2010	1:52	48	12.35	31.71	6.72	32.84	6
107	21	3759.5	7421.7	13	5	2010	5:52	59	11.91	32.15	6.70	32.97	4
108	24	3759.2	7431.8	13	5	2010	9:07	48	13.17	31.53	6.88	32.86	4
109	27	3746.8	7440.5	13	5	2010	12:34	52	13.68	31.55	6.95	32.95	4
110	30	3744.0	7434.3	13	5	2010	15:37	56	13.28	31.64	6.99	33.09	3
111	33	3734.5	7435.9	13	5	2010	18:58	64	13.27	31.77	7.61	33.40	2
112	36	3727.1	7440.2	13	5	2010	22:34	61	13.28	31.92	7.71	33.44	6
113	39	3709.3	7448.4	14	5	2010	2:05	63	14.05	31.72	7.51	33.33	4
114	42	3702.0	7452.5	14	5	2010	5:35	54	13.83	32.07	7.00	33.06	4
115	45	3642.1	7448.8	14	5	2010	9:25	59	14.12	32.17	7.36	33.24	5
116	48	3633.8	7447.1	14	5	2010	12:33	81	13.89	32.17	8.48	33.69	4
117	51	3702.9	7446.7	14	5	2010	16:49	73	14.16	31.73	8.50	33.76	1
118	56	3733.0	7430.7	14	5	2010	22:49	67	14.02	31.48	7.56	33.39	3
119	59	3740.4	7428.3	15	5	2010	2:04	70	14.05	31.44	7.48	33.39	6
120	62	3748.9	7431.5	15	5	2010	6:01	60	13.98	31.46	6.94	33.12	3
121	66	3755.8	7421.5	15	5	2010	11:19	64	12.59	31.85	7.09	33.21	4
122	69	3802.9	7410.7	15	5	2010	14:07	73	12.74	31.96	7.76	33.49	5
123	72	3807.9	7403.7	15	5	2010	17:25	78	13.09	31.87	7.44	33.40	4
124	75	3815.7	7359.4	15	5	2010	20:58	73	13.32	31.78	7.15	33.30	2
126	81	3828.1	7350.7	16	5	2010	2:54	62	13.31	31.43	7.48	33.41	5
128	87	3836.2	7401.8	16	5	2010	9:46	55	12.86	31.56	5.84	32.75	5
129	90	3839.5	7346.4	16	5	2010	12:52	59	13.46	31.54	5.72	32.75	6
130	94	3831.7	7346.1	16	5	2010	17:01	64	13.16	31.38	6.88	33.18	4
131	97	3833.5	7336.2	16	5	2010	20:01	66	12.55	31.98	7.29	33.35	1
132	100	3835.2	7329.4	16	5	2010	23:07	80	12.55	99.99	9.13	34.11	7
133	103	3843.7	7335.5	17	5	2010	1:53	67	13.08	31.77	6.46	33.01	4
134	106	3850.8	7356.4	17	5	2010	5:28	46	13.44	31.10	6.01	32.61	7

R/V Hugh R. Sharp 2010 Scallop Cruise S11001
12 May - 30 June, 2010

Cast #	Sta #	Lat	Long	Day	Mo	Year	Time (GMT)	Btm Depth(m)	Surface Temp	Salt	Deepest Observation Temp	Salt	Meters from Bottom
135	109	3851.1	7341.1	17	5	2010	9:11	45	12.52	31.21	5.56	32.65	4
136	112	3848.9	7339.2	17	5	2010	12:08	60	13.07	31.19	5.96	32.81	5
137	115	3843.0	7315.5	17	5	2010	15:28	91	11.86	32.07	10.98	34.85	4
138	118	3856.2	7306.9	17	5	2010	19:01	82	11.34	32.42	9.42	34.24	6
139	123	3900.9	7314.0	17	5	2010	23:25	73	12.18	31.10	8.08	33.64	6
140	126	3855.8	7328.6	18	5	2010	2:43	61	13.08	31.24	6.15	32.87	7
141	129	3908.2	7335.1	18	5	2010	6:00	53	13.12	30.91	5.67	32.64	6
142	133	3914.1	7314.2	18	5	2010	11:28	61	12.17	30.71	7.49	33.37	2
143	136	3906.3	7309.1	18	5	2010	14:49	71	11.68	31.42	7.81	33.50	5
144	139	3908.8	7303.1	19	5	2010	1:46	78	11.24	32.28	7.83	33.51	7
145	142	3918.4	7306.1	19	5	2010	5:56	66	11.55	31.78	7.25	33.27	7
146	154	3948.1	7231.4	20	5	2010	0:16	66	11.44	32.11	6.74	33.02	6
147	157	3956.6	7243.9	20	5	2010	3:58	59	11.75	31.85	6.28	32.85	5
148	160	3936.9	7253.1	20	5	2010	7:39	65	11.86	32.05	6.53	32.95	4
149	163	3930.6	7258.6	20	5	2010	10:22	60	11.70	31.83	6.46	32.94	4
150	166	3938.5	7301.4	20	5	2010	13:28	67	11.70	32.08	6.15	32.82	7
151	169	3941.6	7304.3	20	5	2010	15:52	58	11.58	31.30	5.95	32.76	12
152	172	3945.5	7312.2	20	5	2010	19:01	47	12.21	31.26	5.61	32.66	4
153	177	3958.3	7303.7	20	5	2010	22:42	52	11.28	31.48	6.01	32.73	6
154	180	3956.8	7323.2	21	5	2010	2:01	51	11.51	30.97	4.91	32.40	7
155	183	3958.2	7344.6	21	5	2010	5:33	34	11.96	30.97	5.45	32.13	5
156	186	4008.7	7340.4	21	5	2010	9:10	56	11.34	30.89	5.12	32.22	5
157	189	4019.0	7305.5	21	5	2010	15:52	38	11.45	31.70	6.29	32.52	1
201	192	4005.9	7239.1	9	6	2010	2:15	56	17.54	31.65	6.74	32.92	3
202	195	4009.4	7227.4	9	6	2010	5:30	65	17.08	31.84	6.94	32.88	4
203	198	4013.6	7211.8	9	6	2010	9:16	65	16.80	31.71	7.06	33.01	2
204	201	4023.0	7232.0	9	6	2010	12:45	50	16.94	31.50	6.75	32.67	4
205	204	4033.6	7233.2	9	6	2010	15:58	40	15.81	31.16	7.04	32.52	2
206	207	4030.6	7213.4	9	6	2010	19:49	57	16.55	31.43	7.03	32.73	2
207	210	4044.2	7207.7	9	6	2010	23:07	46	15.92	30.58	6.95	32.54	5
208	219	4028.2	7144.1	10	6	2010	14:15	73	16.30	31.74	7.00	33.09	6
209	222	4036.7	6953.2	11	6	2010	2:34	60	13.12	32.03	7.81	32.65	2

R/V Hugh R. Sharp 2010 Scallop Cruise S11001

12 May - 30 June, 2010

Cast #	Sta #	Lat	Long	Day	Mo	Year	Time (GMT)	Btm Depth(m)	Surface Temp	Surface Salt	Deepest Temp	Observation Salt	Meters from Bottom
210	225	4039.2	6941.5	11	6	2010	6:43	53	12.04	31.87	9.57	32.08	2
211	228	4029.8	6938.4	11	6	2010	11:11	71	11.51	32.19	7.88	32.58	3
212	232	4031.3	6919.2	11	6	2010	15:31	63	13.34	32.25	7.72	32.59	6
213	235	4038.1	6904.9	11	6	2010	19:30	76	12.54	32.33	8.31	32.49	5
214	238	4049.5	6905.0	11	6	2010	22:47	63	10.45	32.42	10.05	32.45	6
215	241	4039.2	6914.0	12	6	2010	2:27	60	12.68	32.38	8.70	32.52	2
216	244	4047.7	6917.4	12	6	2010	6:18	59	10.63	31.92	10.32	32.10	1
217	247	4058.7	6913.2	12	6	2010	9:41	66	9.18	32.19	9.10	32.19	1
218	250	4054.2	6845.4	12	6	2010	15:36	70	10.95	32.42	10.84	32.42	5
219	253	4043.1	6846.1	12	6	2010	18:42	66	13.11	32.28	9.46	32.42	3
220	257	4039.2	6849.6	12	6	2010	23:10	67	12.91	32.30	8.70	32.44	4
221	261	4033.5	6837.7	13	6	2010	4:07	71	12.73	32.22	7.58	32.84	5
222	264	4043.5	6813.7	13	6	2010	8:19	69	13.08	32.29	8.68	32.43	2
223	267	4033.9	6757.9	13	6	2010	13:31	97	12.06	32.10	9.20	33.76	8
224	270	4048.4	6747.6	13	6	2010	17:55	70	11.85	31.97	7.83	32.47	5
225	273	4101.5	6723.4	13	6	2010	22:47	69	11.47	32.07	8.84	32.27	3
227	279	4048.1	6650.2	14	6	2010	8:38	108	10.77	31.97	11.90	35.19	2
228	282	4101.0	6700.1	14	6	2010	12:30	70	11.03	99.99	7.74	32.38	3
229	285	4113.1	6708.9	14	6	2010	15:52	62	10.76	32.18	8.40	32.28	3
230	288	4109.2	6649.5	14	6	2010	20:47	73	11.88	32.03	7.82	32.39	3
231	291	4056.6	6645.2	14	6	2010	23:53	93	12.04	31.90	9.26	33.62	5
232	296	4102.9	6631.3	15	6	2010	5:10	95	15.32	34.03	12.57	35.43	3
233	299	4110.4	6640.5	15	6	2010	8:37	83	11.83	31.89	7.78	32.60	5
234	302	4113.4	6630.8	15	6	2010	12:06	93	11.66	31.88	7.80	33.12	4
235	306	4123.5	6655.8	15	6	2010	17:07	69	11.39	32.02	9.08	32.21	4
236	310	4135.6	6707.9	15	6	2010	21:37	56	10.93	32.17	10.87	32.17	3
237	313	4129.4	6638.6	16	6	2010	2:20	81	12.26	31.95	7.92	32.39	3
238	316	4121.5	6621.9	16	6	2010	5:48	95	11.78	32.27	10.82	34.41	5
239	320	4135.5	6630.2	16	6	2010	11:37	84	9.52	32.17	9.03	32.21	4
240	324	4134.4	6605.4	16	6	2010	17:23	96	11.09	32.09	10.76	34.45	2
241	328	4153.2	6617.3	17	6	2010	0:15	85	11.89	31.93	7.90	32.35	5
242	333	4206.2	6629.6	17	6	2010	7:52	83	12.94	31.81	7.19	32.61	5

R/V Hugh R. Sharp 2010 Scallop Cruise S11001

12 May - 30 June, 2010

Cast #	Sta #	Lat	Long	Day	Mo	Year	Time (GMT)	Btm Depth(m)	Surface Temp	Surface Salt	Deepest Temp	Observation Salt	Meters from Bottom
243	337	4207.0	6646.7	17	6	2010	16:07	72	13.36	31.75	6.07	32.65	4
244	341	4202.6	6652.0	17	6	2010	22:53	80	10.29	32.16	9.29	32.22	5
245	345	4207.1	6705.1	18	6	2010	6:03	63	11.64	32.03	8.38	32.33	2
246	348	4205.9	6706.9	18	6	2010	13:28	55	12.96	31.89	6.35	32.47	7
247	351	4201.9	6710.5	18	6	2010	19:55	54	10.72	32.18	10.60	32.18	4
248	354	4157.9	6718.2	19	6	2010	0:40	56	11.87	32.17	10.98	32.22	3
249	357	4208.5	6712.3	19	6	2010	11:10	95	13.06	99.99	5.75	32.58	6
250	360	4206.0	6718.1	19	6	2010	14:52	54	11.98	32.20	5.40	32.48	5
301	363	4102.1	6852.9	23	6	2010	0:16	73	11.76	32.38	11.32	32.38	3
302	367	4110.5	6847.3	23	6	2010	5:56	83	13.48	31.99	7.90	32.37	6
303	370	4104.8	6841.4	23	6	2010	10:43	64	11.79	32.38	11.78	32.38	1
304	374	4108.0	6837.4	23	6	2010	17:45	62	12.13	32.37	12.11	32.37	4
305	377	4116.5	6837.4	23	6	2010	20:31	66	11.68	32.22	9.59	32.36	4
306	380	4119.4	6832.7	23	6	2010	23:31	69	12.06	32.33	11.59	32.37	4
307	383	4123.6	6823.8	24	6	2010	3:22	66	12.41	32.35	11.24	32.37	2
308	386	4130.6	6826.7	24	6	2010	6:43	79	15.22	31.78	9.38	32.37	4
309	389	4145.8	6815.4	24	6	2010	10:15	78	13.20	32.20	9.25	32.43	4
310	393	4144.4	6801.1	24	6	2010	14:01	35	12.84	32.29	12.65	32.29	4
311	396	4151.6	6730.1	24	6	2010	19:36	45	12.57	32.28	12.53	32.29	2
312	399	4154.7	6752.0	25	6	2010	2:12	62	16.05	31.86	11.92	32.33	2
313	402	4158.2	6745.4	25	6	2010	4:24	57	13.53	32.14	10.44	32.38	2
314	405	4203.6	6726.7	25	6	2010	8:07	55	15.63	31.87	7.80	32.51	4
315	408	4159.1	6746.1	25	6	2010	13:01	71	13.24	32.19	10.54	32.38	5
316	411	4154.2	6753.7	25	6	2010	15:45	65	14.54	32.06	11.22	32.36	4
317	418	4148.7	6807.0	25	6	2010	22:46	71	16.77	31.80	8.79	32.42	3
318	423	4131.5	6832.2	26	6	2010	5:28	102	16.34	31.83	5.71	32.71	5
319	426	4124.4	6838.7	26	6	2010	9:10	97	16.35	31.69	5.79	32.56	5
320	429	4117.2	6850.1	26	6	2010	12:25	105	16.85	31.57	5.67	32.55	3
321	433	4110.9	6851.1	26	6	2010	17:31	93	12.22	32.36	7.10	32.41	4
322	442	4108.8	6858.1	27	6	2010	4:33	101	11.07	32.18	6.79	32.43	4
323	445	4103.4	6858.9	27	6	2010	8:43	85	11.45	32.24	7.48	32.39	6
324	448	4103.0	6912.2	27	6	2010	19:06	57	10.67	32.10	10.70	32.17	3

R/V Hugh R. Sharp 2010 Scallop Cruise S11001**12 May - 30 June, 2010**

Cast #	Sta #	Lat	Long	Day	Mo	Year	Time (GMT)	Btm Depth(m)	Surface Temp	Salt	Deepest Observation Temp	Salt	Meters from Bottom
325	454	4107.2	6918.5	28	6	2010	2:28	55	10.02	32.03	9.48	32.08	2
326	457	4105.7	6910.4	28	6	2010	7:50	66	10.64	32.08	7.12	32.33	2
327	460	4113.0	6910.3	28	6	2010	11:31	92	17.61	31.54	5.37	32.53	3
328	463	4114.3	6919.1	28	6	2010	16:32	64	8.95	32.10	6.90	32.20	7
329	466	4114.5	6924.6	28	6	2010	20:53	48	10.45	31.88	6.44	32.15	6
330	469	4118.3	6921.2	29	6	2010	1:12	60	11.73	31.86	5.52	32.29	2
331	475	4128.0	6931.2	29	6	2010	9:04	37	15.37	31.31	7.43	31.88	6
332	478	4127.2	6917.4	29	6	2010	13:53	94	16.70	31.14	5.21	32.48	6
333	482	4134.2	6932.8	29	6	2010	19:17	57	17.90	31.01	5.61	32.03	4
334	485	4141.2	6946.6	29	6	2010	23:46	50	16.66	31.06	5.65	31.91	4
335	488	4155.4	6950.5	30	6	2010	3:40	71	19.45	30.85	5.09	32.03	4
336	491	4153.6	6950.7	30	6	2010	7:22	68	18.53	30.96	5.16	32.02	4
337	494	4141.2	6948.5	30	6	2010	11:13	39	18.57	30.92	5.94	31.84	6