Oceanography Branch CTD Data Report
CTD_REPORT_2012001S1

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National Marine Fisheries Service, Northeast Fisheries
Science Center, Woods Hole, Massachusetts 02543-1097.

DATE: Sept 7, 2012

Oceanography Branch CTD Data Report

CTD_REPORT_2012001S1

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

S1 12-01
2012 Scallop Survey
Data Coverage: June 16 – July 6, 2012
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 2012 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.

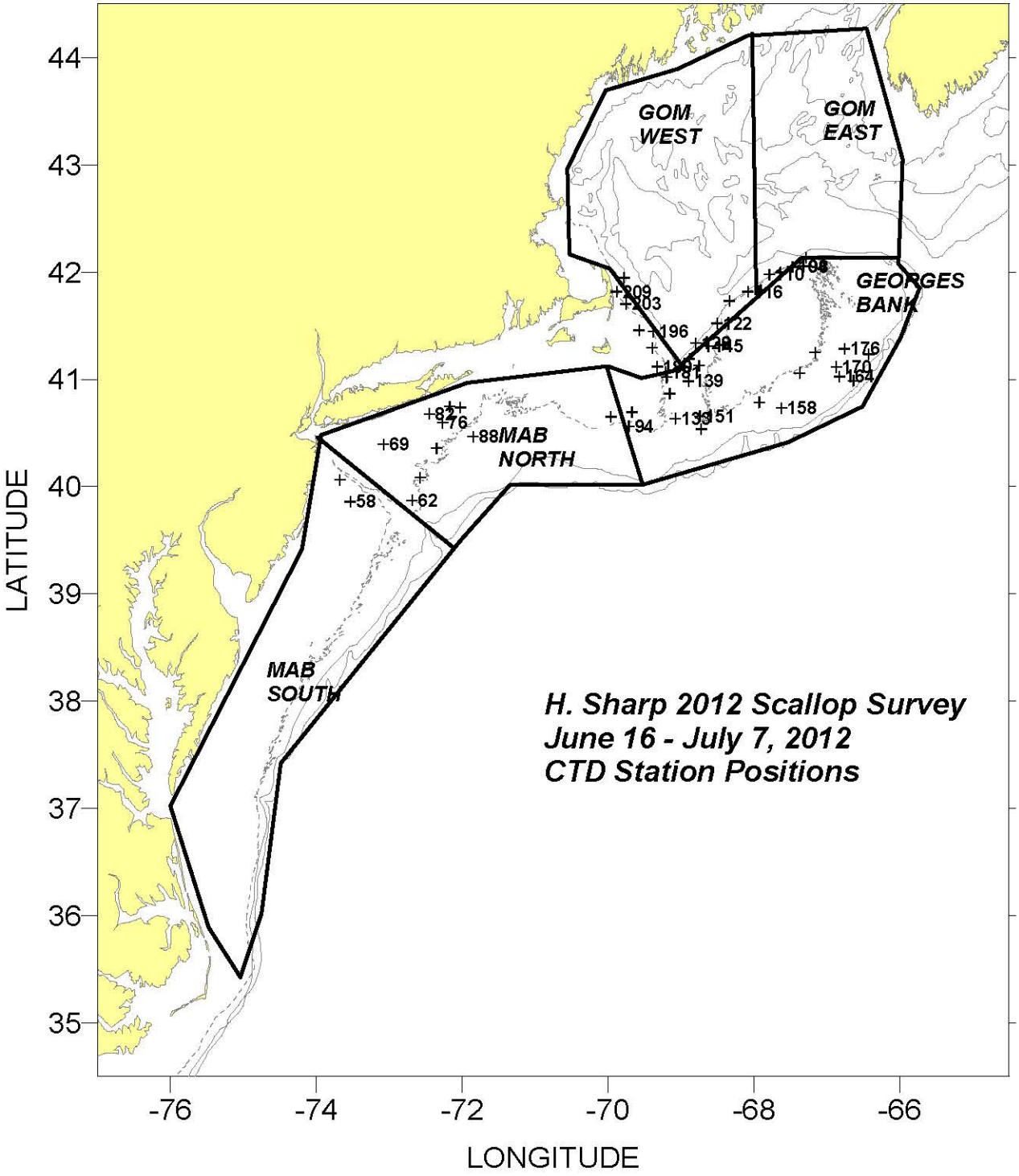
The cast numbering was started at 001 for each leg making it necessary to rename all the files for processing. Leg 2 CTD stations occurred on June 16 -25 and includes casts 201 – 225; Leg III CTD stations took place on June 29 – July 6 and includes casts 301 – 326. No CTD casts were conducted on Leg I.
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/s11201.dat

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

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

choose: **2012 Cruises**
JUN_SCALLOP_S11201
CTD_REPORT_2012001S1

Revised: Sept 7, 2012


GOM
WEST
GOM
EAST
GEORGES
BANK
MAB
NORTH
MAB
SOUTH
H. Sharp 2012 Scallop Survey
June 16 - July 7, 2012
CTD Station Positions
LATITUDE
LONGITUDE
44
43
42
41
40
39
38
37
36
35
-76
-74
-72
-70
-68
-66

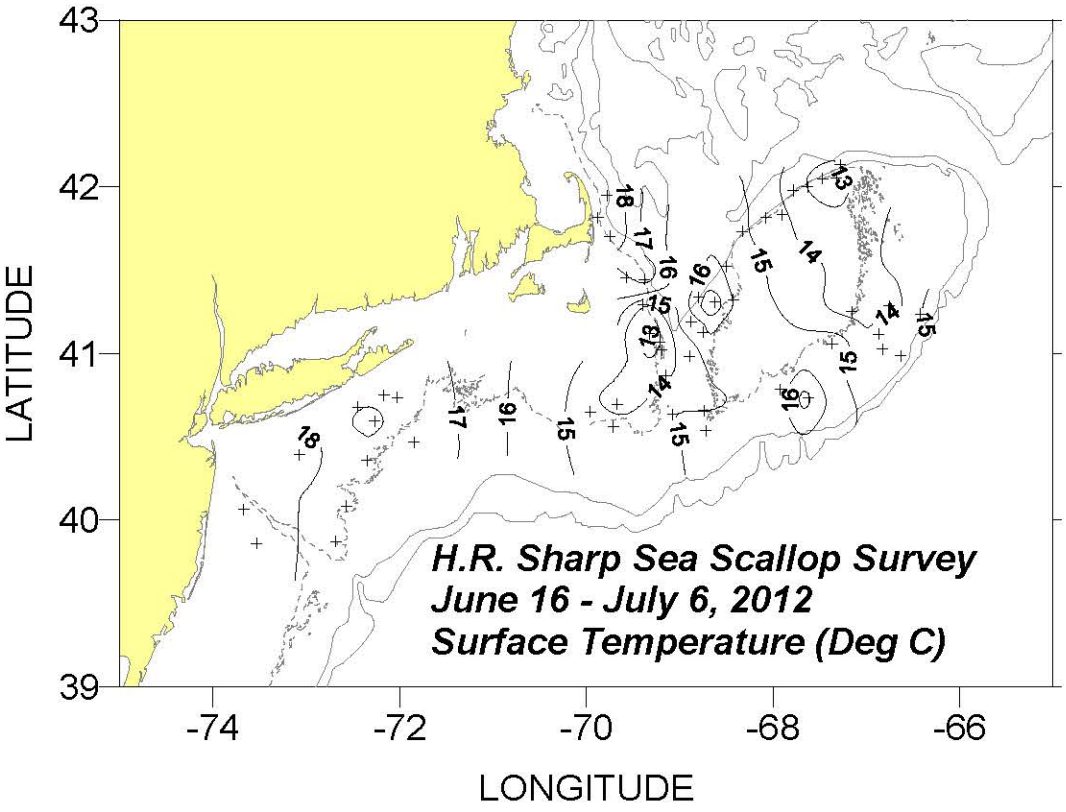
Areal average surface and bottom temperature/salinity and temperature/salinity anomalies for the 2012 S11201 Scallop Survey

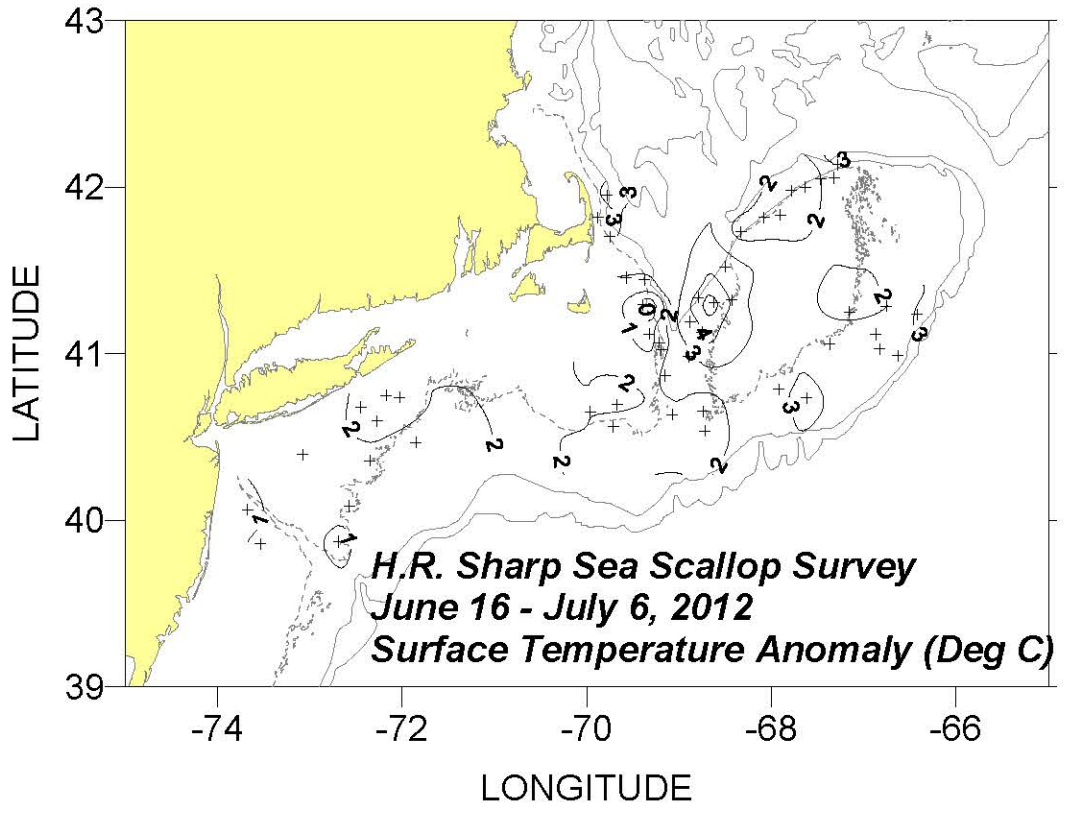
		SURFACE						BOTTOM						
Cruise	CD	#obs	T/S	Anomaly	SDV1	SDV2	Flag	#obs	T/S	Anomaly	SDV1	SDV2	Flag	Purpose
						Georges Bank								
s11201	182	25	14.44	2.52	0.21	1.60	1	25	10.49	1.61	0.21	2.00	1	0
s11201	182	25	32.66	0.04	0.12	0.42	1	25	32.98	0.11	0.12	0.27	1	0
						Mid Atlantic Bight North								
s11201	171	12	16.90	1.83	0.35	0.75	1	12	9.34	1.73	0.35	0.85	1	0
s11201	171	12	32.14	0.29	0.23	0.40	1	12	32.64	-0.24	0.21	0.20	1	0

"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.


43
42
41
40
39
LATITUDE
-74
-72
-70
-68
-66
LONGITUDE
H.R. Sharp Sea Scallop Survey
June 16 - July 6, 2012
Surface Temperature (Deg C)


43
42
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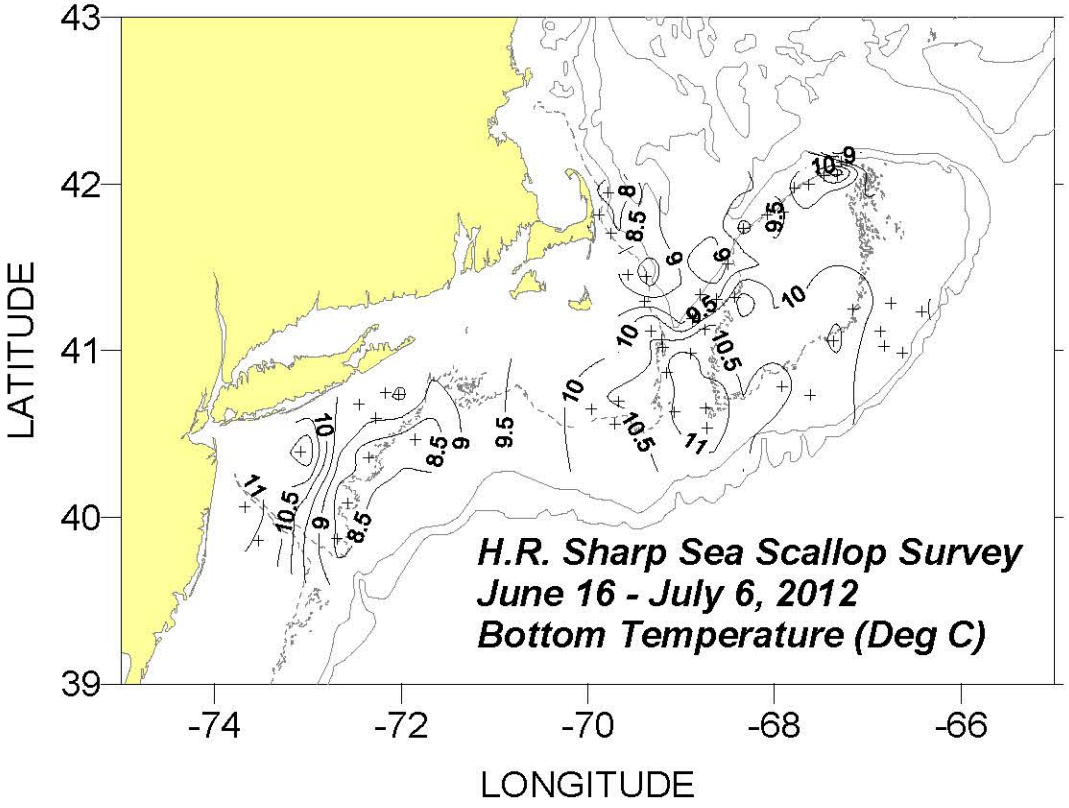
LATITUDE
-74
-72
-70
-68
-66
LONGITUDE
H.R. Sharp Sea Scallop Survey
June 16 - July 6, 2012
Surface Temperature Anomaly (Deg C)


43
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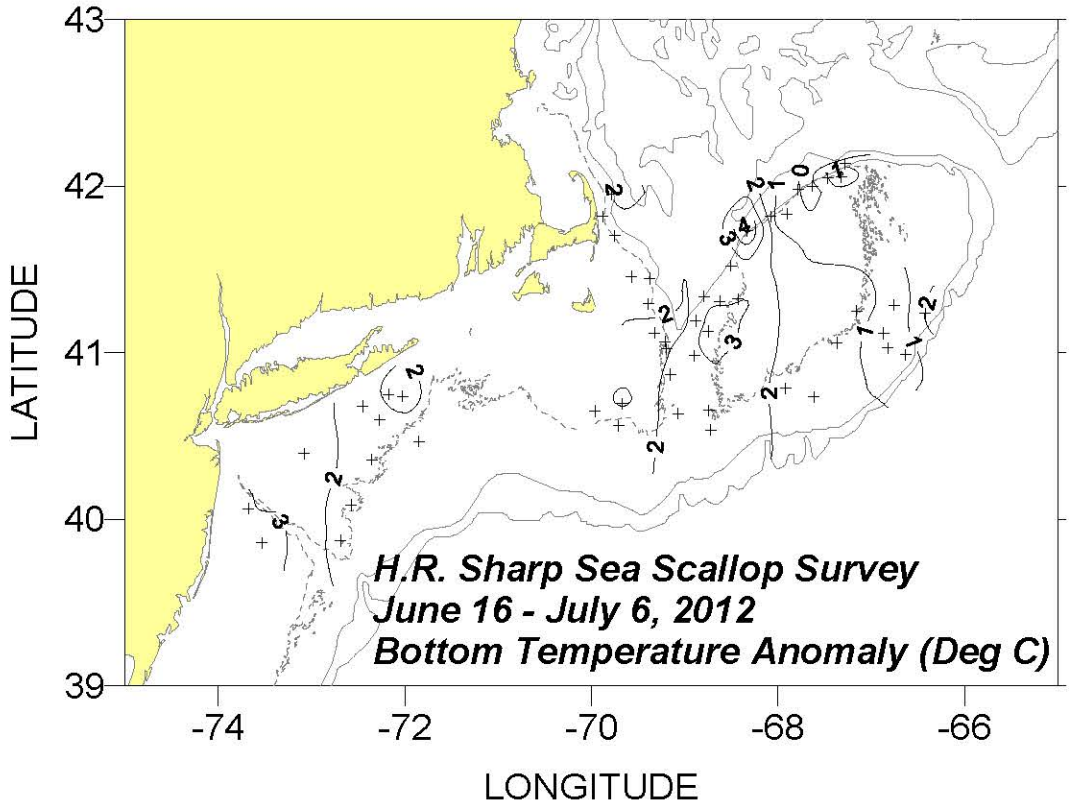
39
LATITUDE
-74
-72
-70
-68
-66
LONGITUDE
H.R. Sharp Sea Scallop Survey
June 16 - July 6, 2012
Bottom Temperature (Deg C)


43
42
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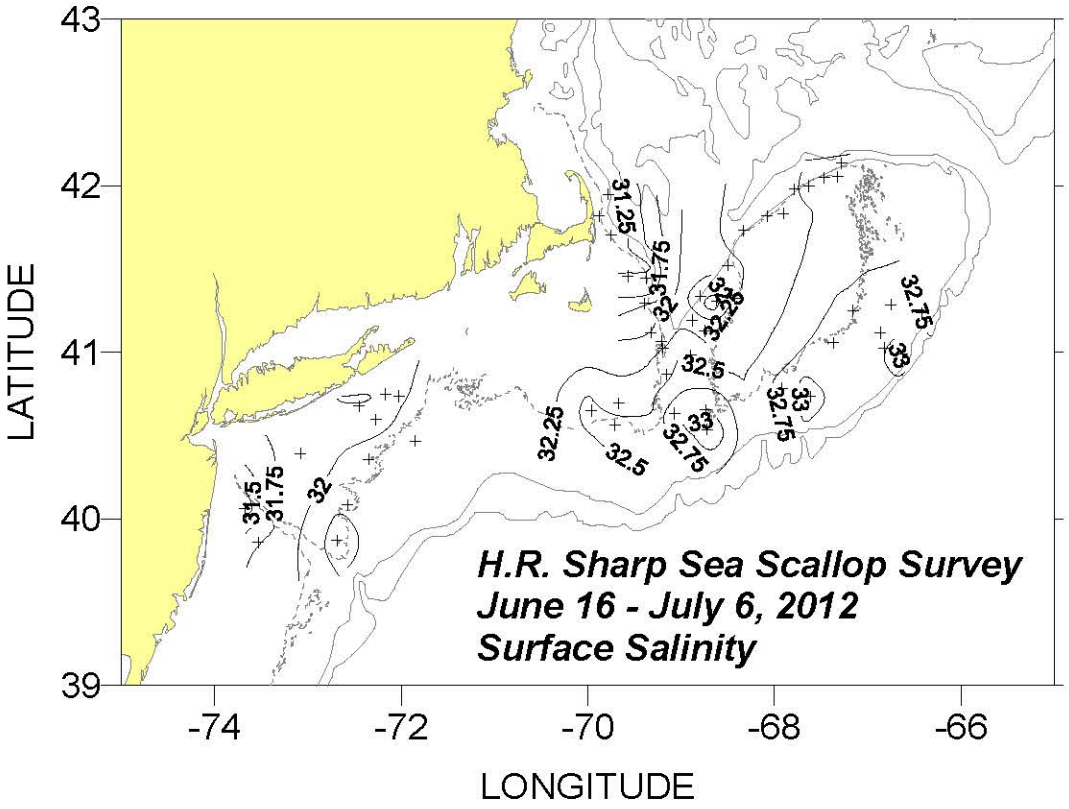
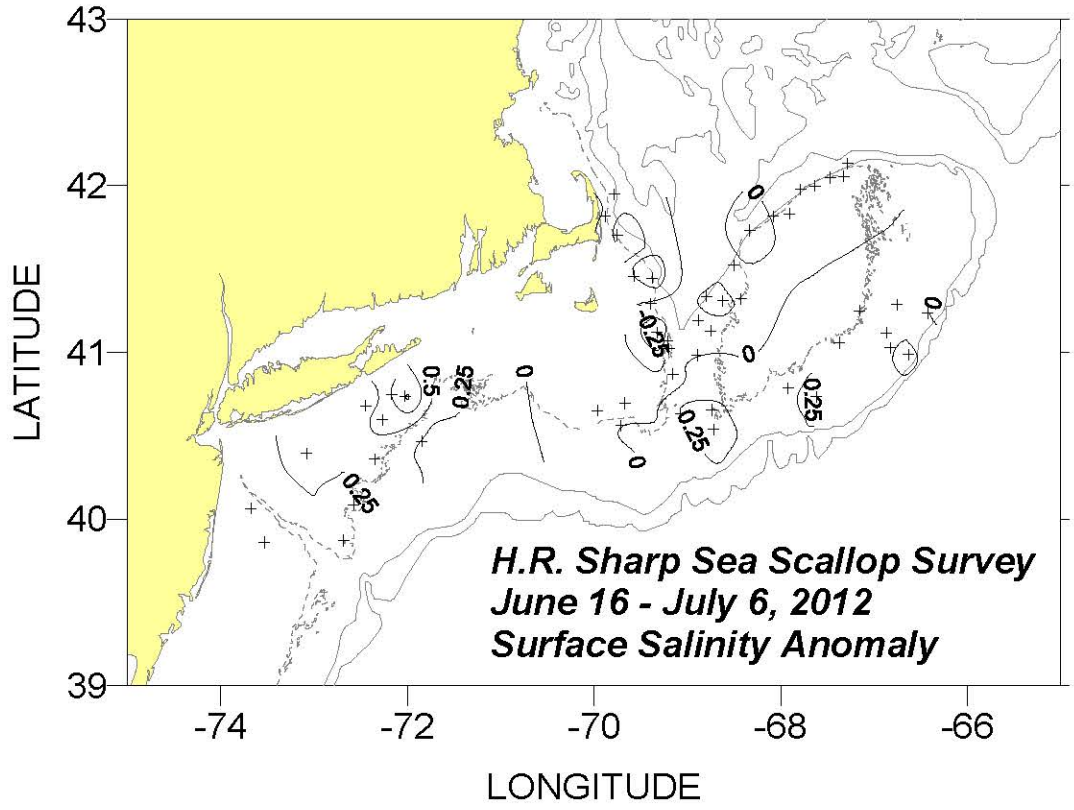
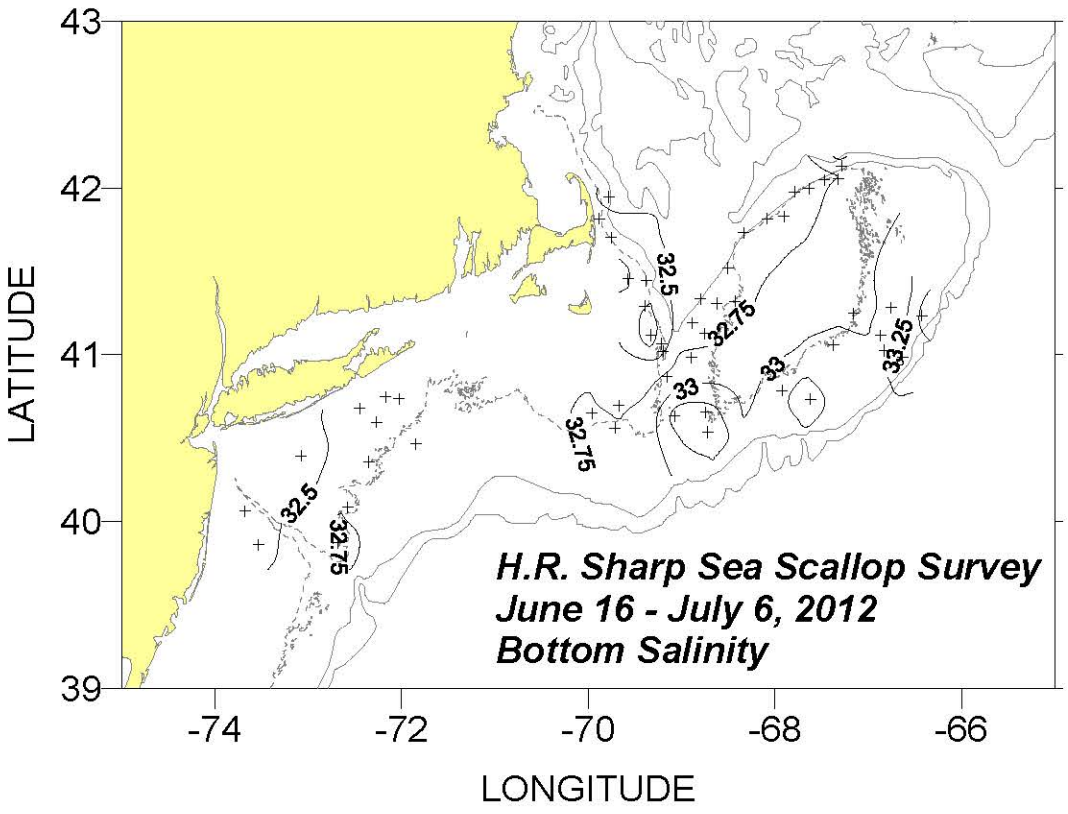
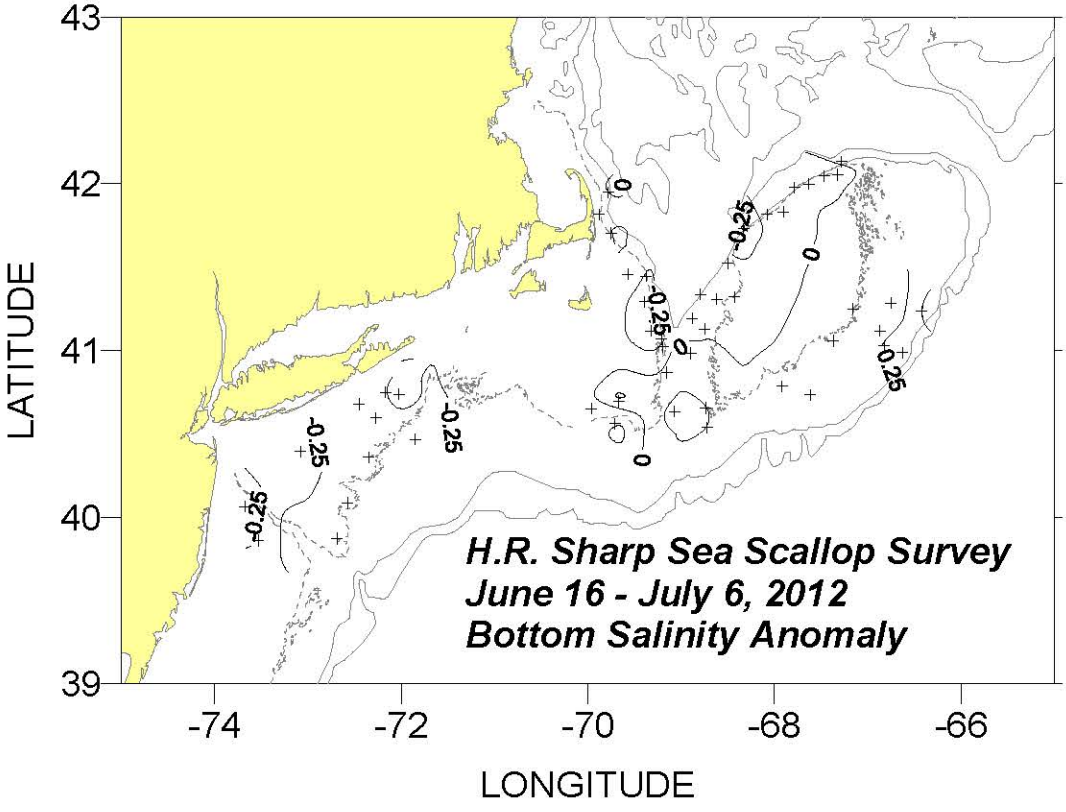
39
LATITUDE
-74
-72
-70
-68
-66
LONGITUDE
H.R. Sharp Sea Scallop Survey
June 16 - July 6, 2012
Bottom Temperature Anomaly (Deg C)


43
42
41
40
39
LATITUDE
-74
-72
-70
-68
-66
LONGITUDE
31.25
31.75
32
32.25
32.5
32.75
33
H.R. Sharp Sea Scallop Survey
June 16 - July 6, 2012
Surface Salinity


43
42
41
40
39
LATITUDE
-74
-72
-70
-68
-66
LONGITUDE
0
0.25
0.5
H.R. Sharp Sea Scallop Survey
June 16 - July 6, 2012
Surface Salinity Anomaly


43
42
41
40
39
LATITUDE
-74
-72
-70
-68
-66
LONGITUDE
32.5
32.75
33
33.25
H.R. Sharp Sea Scallop Survey
June 16 - July 6, 2012
Bottom Salinity


43
42
41
40
39
LATITUDE
-74
-72
-70
-68
-66
LONGITUDE
0
-0.25
H.R. Sharp Sea Scallop Survey
June 16 - July 6, 2012
Bottom Salinity Anomaly

R/V Hugh R. Sharp 2012 Sea Scallop Survey S11201

June 16 - July 6, 2012

Cast #	Sta #	Lat deg N	Long deg W	Day	Mo	Year	Time (GMT)	Btm Depth m	Surface Temp deg C	Surface Salinity PSU	Deepest Observed Temp deg C	Deepest Observed Salinity PSU	Meters from Bottom	Deployment Type (V=vertical)
201	58	3951.6	7331.9	16	6	2012	0:33	36	19.05	31.86	11.09	32.49	2	V
202	61	4003.8	7340.5	16	6	2012	15:10	34	18.65	31.11	11.49	32.27	2	V
203	62	3952.3	7241.1	17	6	2012	21:52	58	17.55	32.41	8.33	32.84	2	V
204	67	4005.1	7234.4	18	6	2012	3:00	58	17.73	32.23	7.96	32.76	3	V
205	69	4023.6	7304.6	18	6	2012	10:21	39	18.34	31.72	11.64	32.30	1	V
206	72	4021.5	7221.0	19	6	2012	2:01	58	17.65	32.21	7.98	32.65	3	V
207	76	4035.7	7216.1	19	6	2012	9:31	49	18.68	31.93	9.00	32.55	2	V
208	79	4044.9	7210.2	19	6	2012	11:55	45	17.21	31.86	9.28	32.52	2	V
209	82	4040.7	7226.9	19	6	2012	16:16	38	17.59	31.36	9.74	32.50	1	V
210	85	4044.2	7201.5	19	6	2012	23:51	46	17.57	31.97	9.63	32.59	2	V
211	88	4028.0	7150.8	20	6	2012	7:43	68	17.91	32.41	7.46	32.72	2	V
212	91	4039.0	6957.6	21	6	2012	2:13	53	14.68	32.60	10.26	32.81	1	V
213	94	4033.7	6942.7	21	6	2012	6:49	65	14.91	32.70	10.15	32.82	3	V
214	97	4041.7	6940.2	21	6	2012	10:06	48	12.93	32.24	10.70	32.60	3	V
215	98	4203.3	6719.3	23	6	2012	18:19	52	11.81	32.70	11.74	32.70	3	V
216	101	4208.0	6716.9	23	6	2012	21:55	93	14.12	32.36	6.87	33.23	2	V
217	104	4202.9	6728.1	24	6	2012	0:56	56	11.88	32.60	7.51	32.78	1	V
218	107	4159.9	6737.9	24	6	2012	4:19	50	12.78	32.56	10.69	32.64	2	V
219	110	4158.7	6747.2	24	6	2012	7:28	75	14.68	32.31	9.86	32.57	4	V
220	113	4149.9	6754.2	24	6	2012	10:31	46	12.68	32.54	11.26	32.65	1	V
221	116	4149.0	6804.8	24	6	2012	13:48	67	15.42	32.26	7.71	32.68	4	V
222	119	4143.9	6819.9	24	6	2012	17:45	78	15.17	32.48	10.20	32.68	3	V
223	122	4131.3	6830.2	24	6	2012	22:07	99	17.01	32.12	6.82	32.65	4	V
224	125	4119.3	6825.6	25	6	2012	2:25	61	14.61	32.38	11.93	32.70	2	V
225	128	4120.2	6847.7	25	6	2012	6:31	115	14.95	32.29	6.47	32.72	6	V
301	130	4052.1	6909.2	29	6	2012	14:26	66	12.95	32.69	12.02	33.05	1	V
302	133	4038.0	6904.4	30	6	2012	5:52	73	15.36	33.25	11.29	33.69	4	V

R/V Hugh R. Sharp 2012 Sea Scallop Survey S11201

June 16 - July 6, 2012

Cast #	Sta #	Lat deg N	Long deg W	Day	Mo	Year	Time (GMT)	Btm Depth m	Surface Temp deg C	Surface Salinity PSU	Deepest Observed Temp deg C	Deepest Observed Salinity PSU	Meters from Bottom	Deployment Type (V=vertical)
303	136	4032.2	6843.2	30	6	2012	11:13	70	16.07	33.33	11.28	33.60	6	V
304	139	4059.0	6853.7	30	6	2012	21:34	70	14.02	32.81	12.81	32.86	5	V
305	142	4111.5	6852.9	1	7	2012	1:46	98	16.52	32.06	7.40	32.57	8	V
306	145	4118.5	6837.3	1	7	2012	5:46	70	19.03	31.31	9.53	32.64	1	V
307	148	4107.7	6845.0	1	7	2012	9:40	67	16.22	32.11	12.08	32.73	5	V
308	151	4039.3	6844.4	1	7	2012	15:52	61	14.36	33.02	12.10	33.33	1	V
309	155	4047.1	6755.3	2	7	2012	1:58	71	15.07	32.81	10.92	33.12	3	V
310	158	4044.0	6737.1	2	7	2012	6:58	79	17.60	33.27	10.24	33.50	2	V
311	161	4103.5	6722.2	2	7	2012	16:04	66	15.59	32.92	10.66	33.06	3	V
312	164	4101.6	6649.6	3	7	2012	0:16	74	14.84	32.96	9.16	33.09	4	V
313	167	4059.2	6637.9	3	7	2012	3:47	89	15.07	33.18	9.58	33.62	3	V
314	170	4107.0	6652.1	3	7	2012	8:30	72	14.54	32.87	9.84	32.93	2	V
315	173	4115.0	6709.4	3	7	2012	14:15	61	11.55	32.85	11.00	32.87	4	V
316	176	4117.1	6645.3	3	7	2012	17:57	76	13.25	32.85	9.31	32.95	2	V
317	178	4114.1	6625.4	3	7	2012	22:40	94	15.51	32.64	10.12	33.84	3	V
318	181	4104.0	6912.7	5	7	2012	11:41	57	12.87	31.93	7.92	32.42	4	V
319	186	4101.3	6911.7	5	7	2012	16:01	56	12.19	32.48	11.94	32.57	2	V
320	189	4107.1	6919.5	5	7	2012	19:37	52	11.16	31.96	10.98	31.97	3	V
321	193	4117.6	6923.5	6	7	2012	0:10	46	13.58	31.75	9.11	32.16	3	V
322	196	4126.7	6922.6	6	7	2012	4:22	59	18.64	30.95	7.71	32.30	1	V
323	199	4127.4	6934.3	6	7	2012	8:55	32	17.07	30.96	9.18	32.01	3	V
324	203	4142.2	6945.0	6	7	2012	13:56	69	19.37	30.84	7.52	32.21	4	V
325	206	4156.9	6946.8	6	7	2012	18:08	110	19.86	30.94	6.59	32.95	3	V
326	209	4149.0	6952.8	6	7	2012	22:10	37	18.84	30.97	8.73	32.03	3	V