Oceanography Branch CTD Data Report
CTD_REPORT_2014001S1

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Science Center, Woods Hole, Massachusetts 02543-1097.

DATE: February 27, 2015

Oceanography Branch CTD Data Report

CTD_REPORT_2014001S1

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

S1 14-01
2014 Sea Scallop Survey
Data Coverage: July 1 - 24, 2014
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 2014 Sea Sea Scallop Survey aboard the UNOLS R/V *Hugh R. Sharp*. All data was obtained with the shipboard Seabird Electronics SBE Model 9/11+ CTD. Salt water samples were collected for the purpose of calibrating the conductivity cell.

The cast numbering was started at 001 for each leg making it necessary to rename all the files for processing. Leg II CTD stations occurred on July 1 - 3 and includes casts 201 - 205; Leg III CTD stations occurred on July 8 - 13 and includes casts 301 – 325; Leg IV CTD stations took place on July 17 – 24 and includes casts 401 – 440. Data presented here have been audited, however, corrections and/or updates may be applied at a later time.

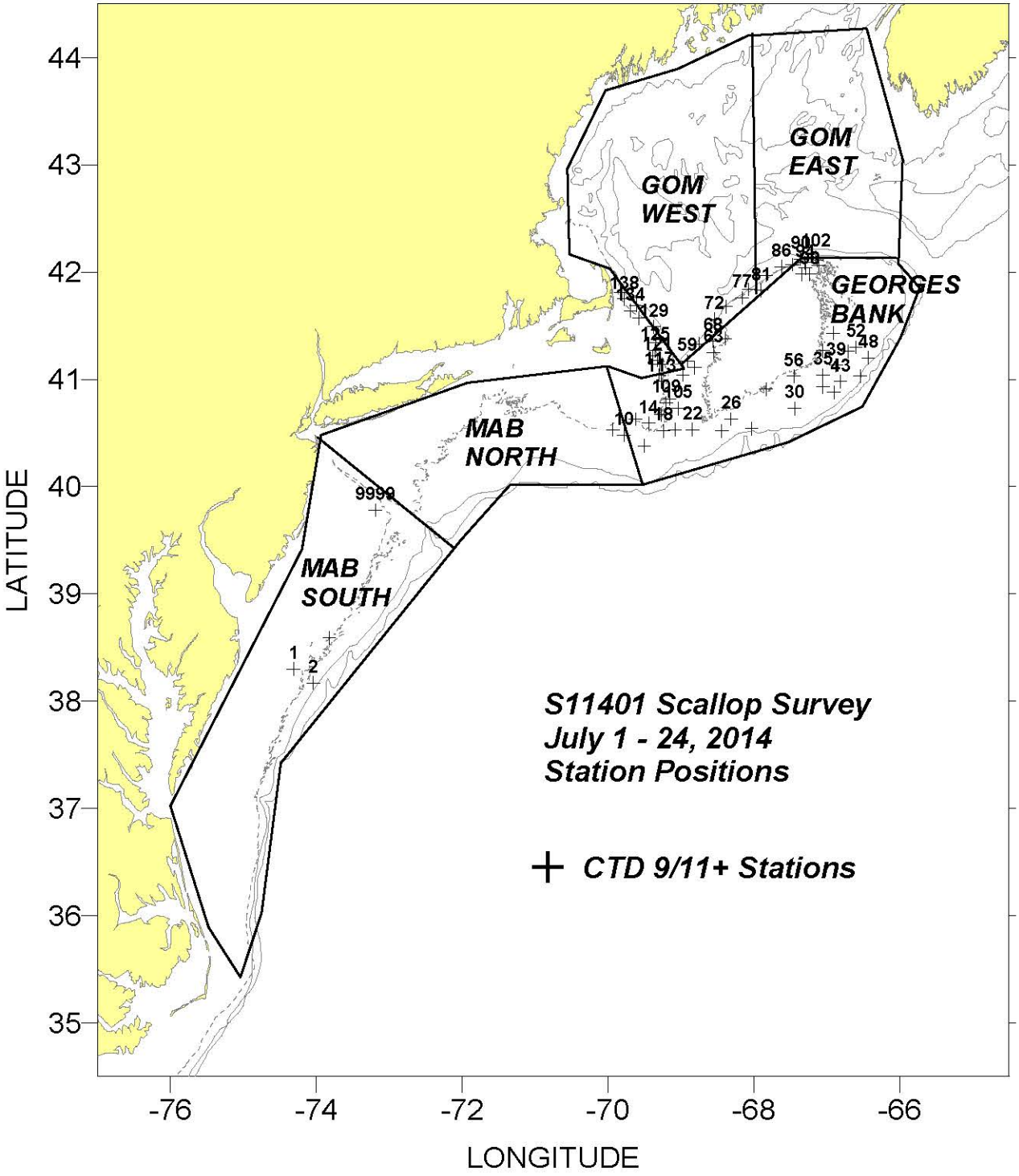
The most recent and complete station data can be found in an NODC formatted ASCII file at:
ftp://ftp.nefsc.noaa.gov/pub/hydro/s11401.dat

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

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

choose: **2014 Cruises**
JUL_SCALLOP_S11401
CTD_REPORT_2014001S1

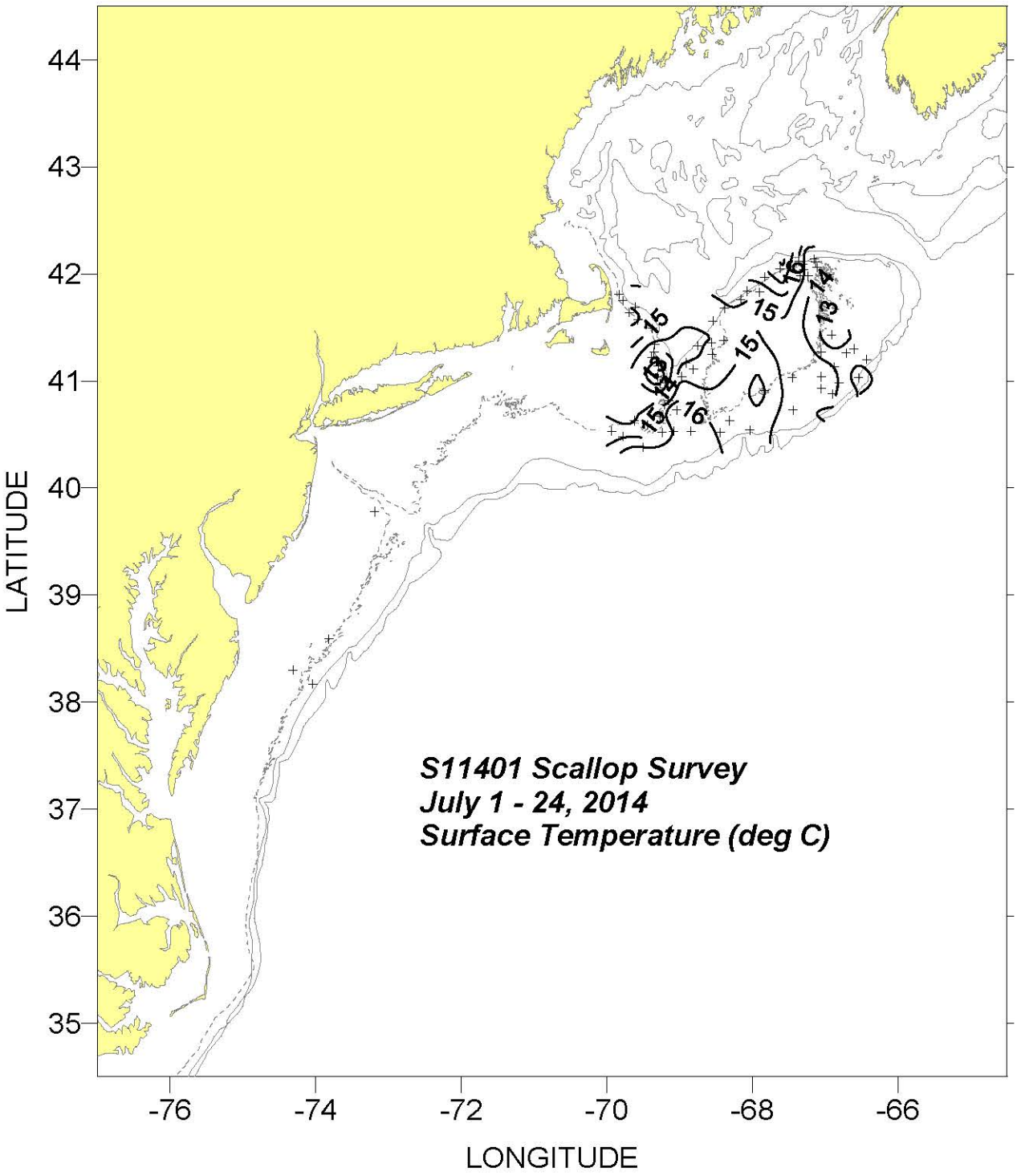
Revised: February 27, 2015


GOM
WEST
GOM
EAST
GEORGES
BANK
MAB
NORTH
MAB
SOUTH
S11401 Scallop Survey
July 1 - 24, 2014
Station Positions
CTD 9/11+ Stations
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
S11401 Sea Scallop Survey
July 1 - 24, 2014

		SURFACE						BOTTOM						
CRUISE	CD	#obs	T/S	Anomaly	SDV1	SDV2	Flag	#obs	T/S	Anomaly	SDV1	SDV2	Flag	Purpose
							Georges Bank							
S11401	195	39	14.60	0.42	0.24	1.38	0	39	11.38	1.60	0.25	1.39	0	60
S11401	195	39	32.87	0.14	0.07	0.40	0	39	33.35	0.39	0.08	0.46	0	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.


44
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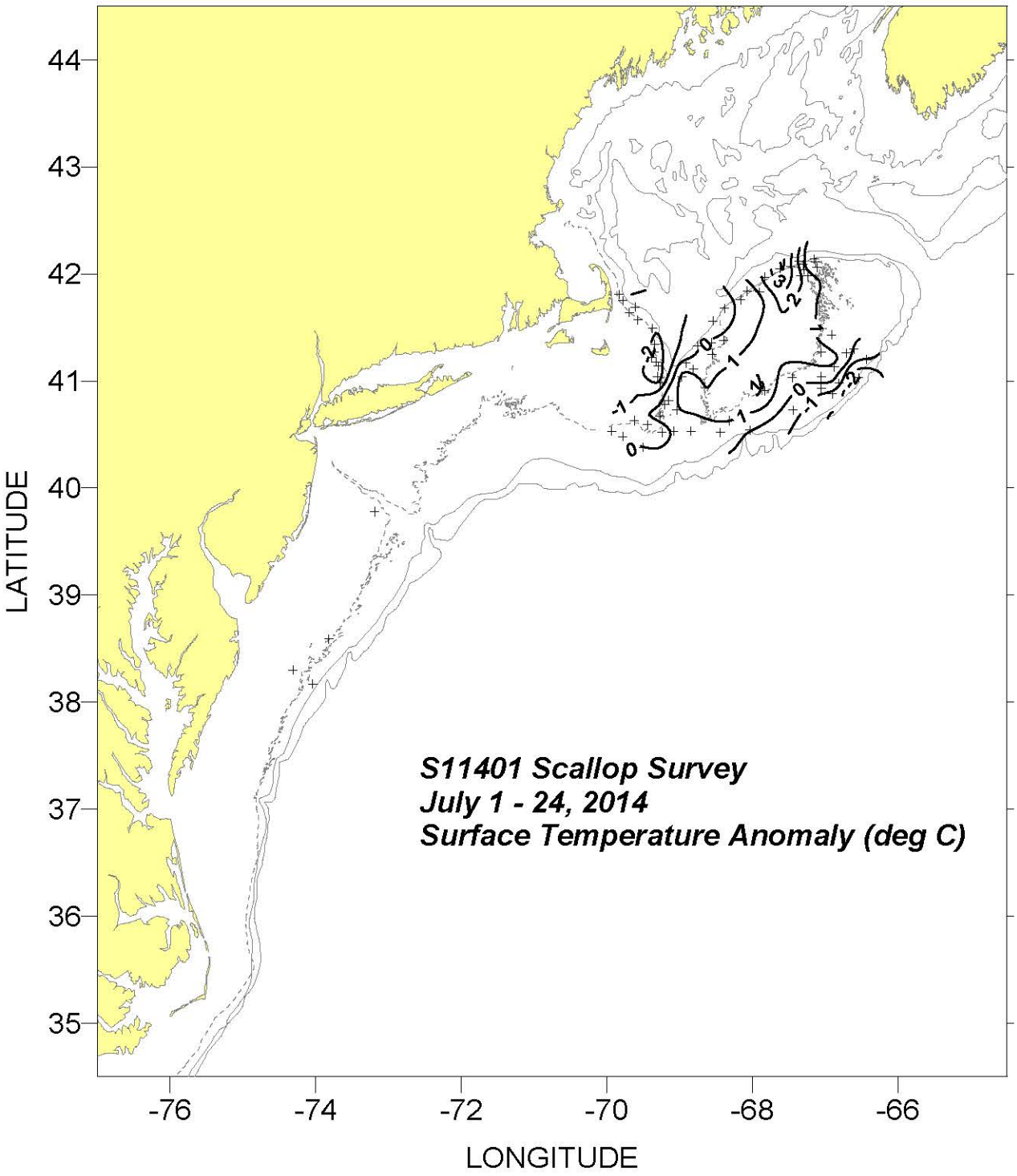
LATITUDE
-76
-74
-72
-70
-68
-66
LONGITUDE
15
15
15
16
15
14
13
S11401 Scallop Survey
July 1 - 24, 2014
Surface Temperature (deg C)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LATITUDE
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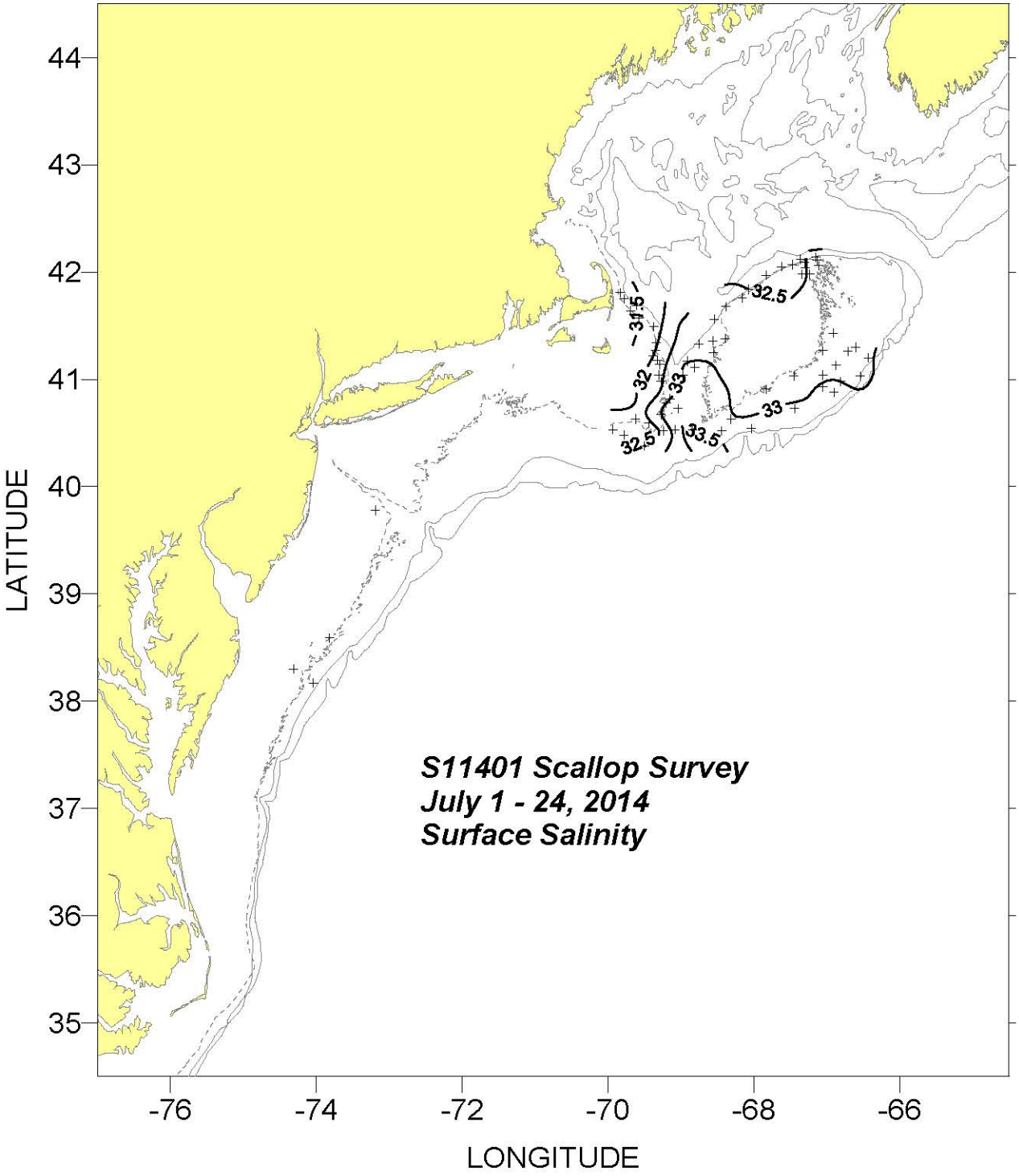
-66
LONGITUDE
S11401 Scallop Survey
July 1 - 24, 2014
Surface Temperature Anomaly (deg C)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LATITUDE
-76
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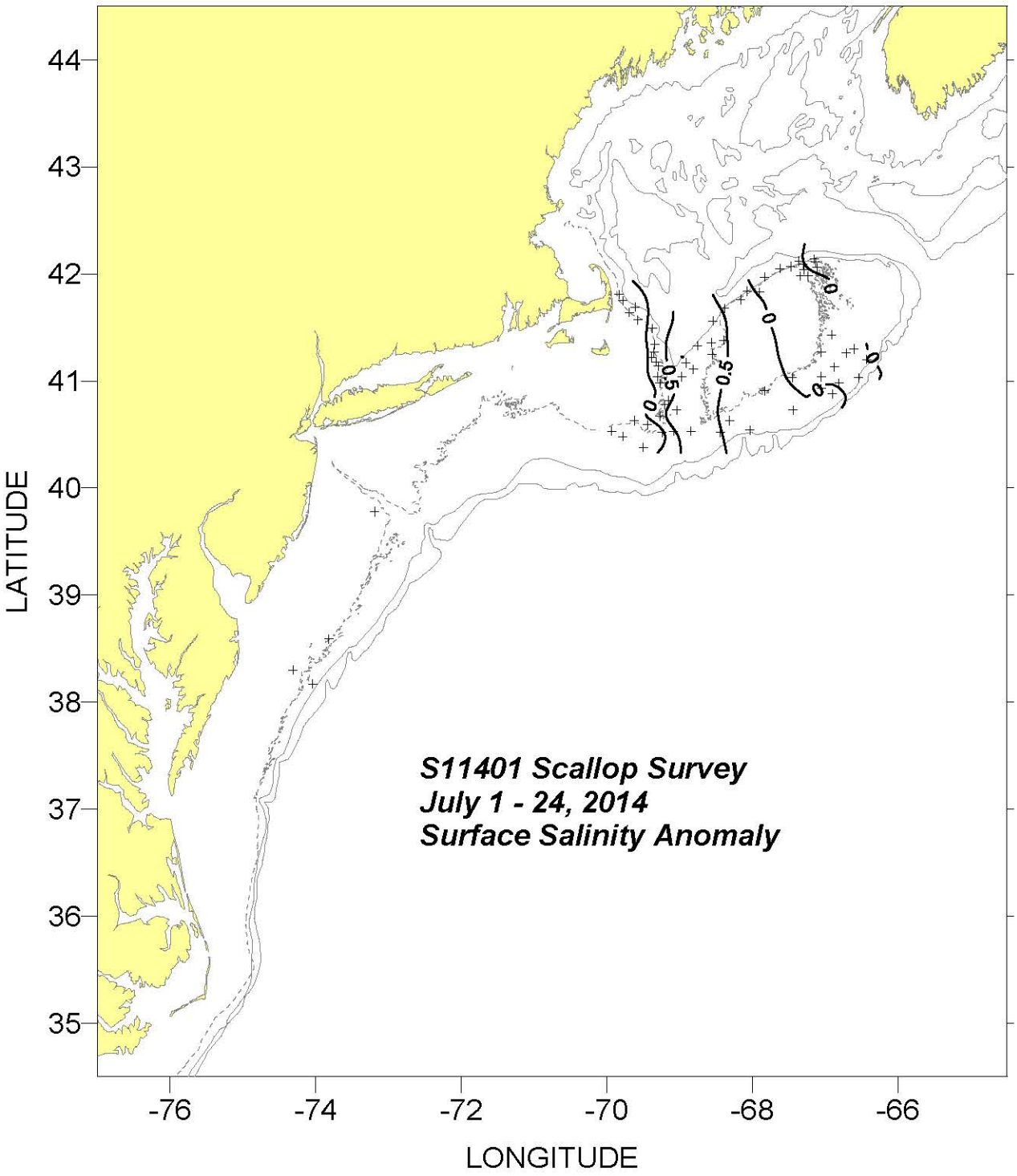
-70
-68
-66
LONGITUDE
31.5
32
32.5
33
33
32.5
33.5
S11401 Scallop Survey
July 1 - 24, 2014
Surface Salinity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LATITUDE
-76
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-72
-70
-68
-66
LONGITUDE
0
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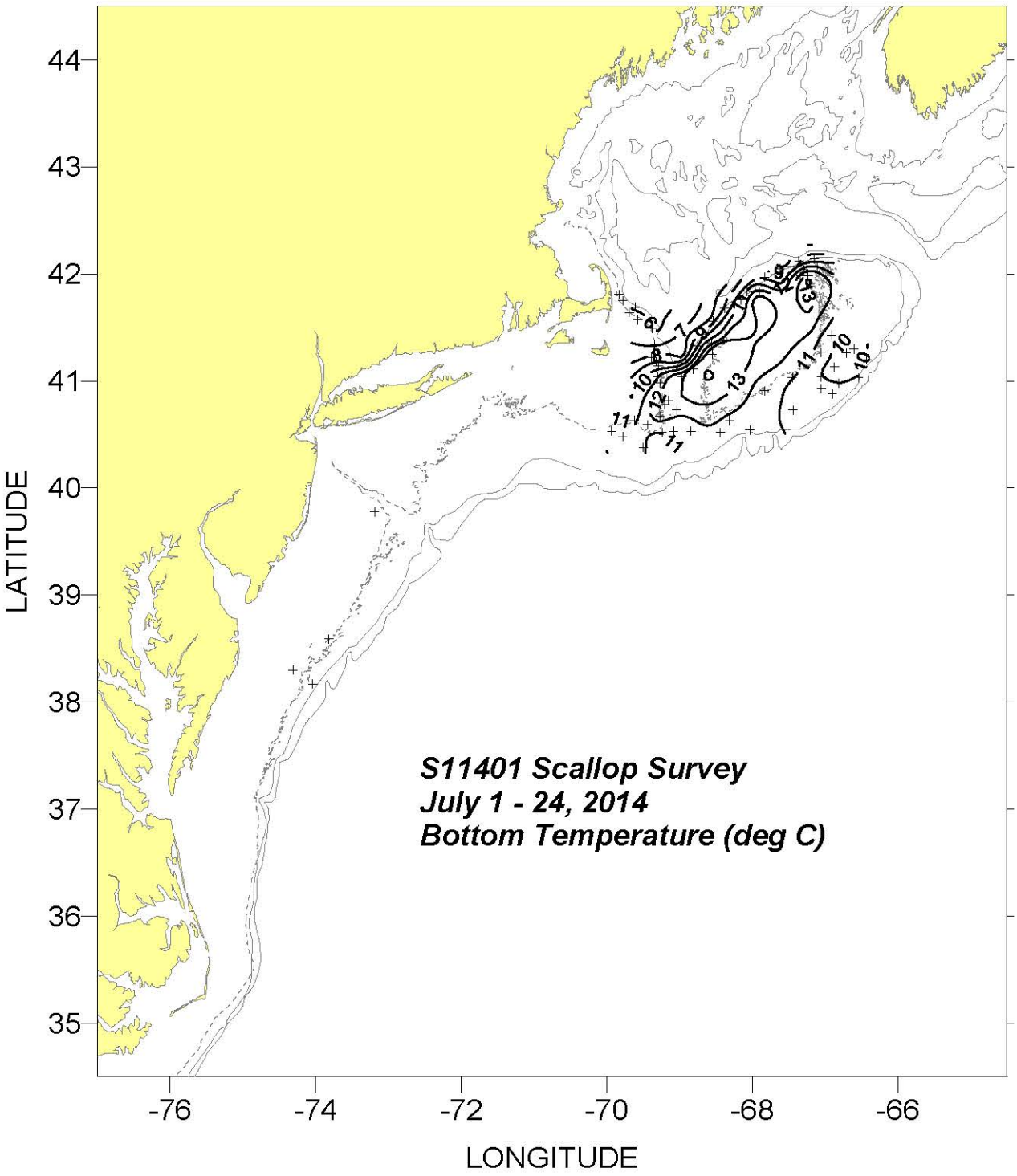
S11401 Scallop Survey
July 1 - 24, 2014
Surface Salinity Anomaly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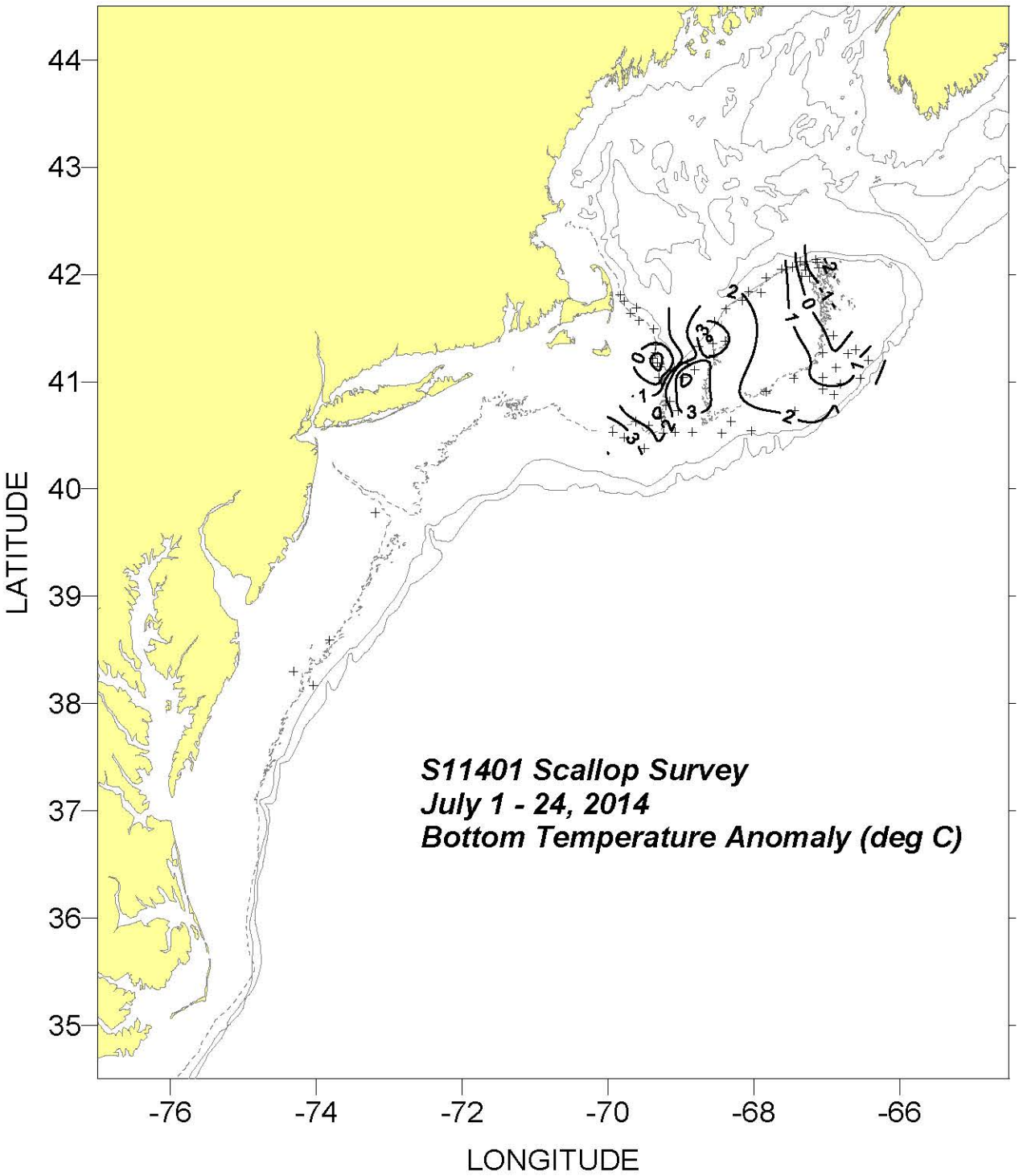
LATITUDE
-76
-74
-72
-70
-68
-66
LONGITUDE
S11401 Scallop Survey
July 1 - 24, 2014
Bottom Temperature (deg C)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LATITUDE
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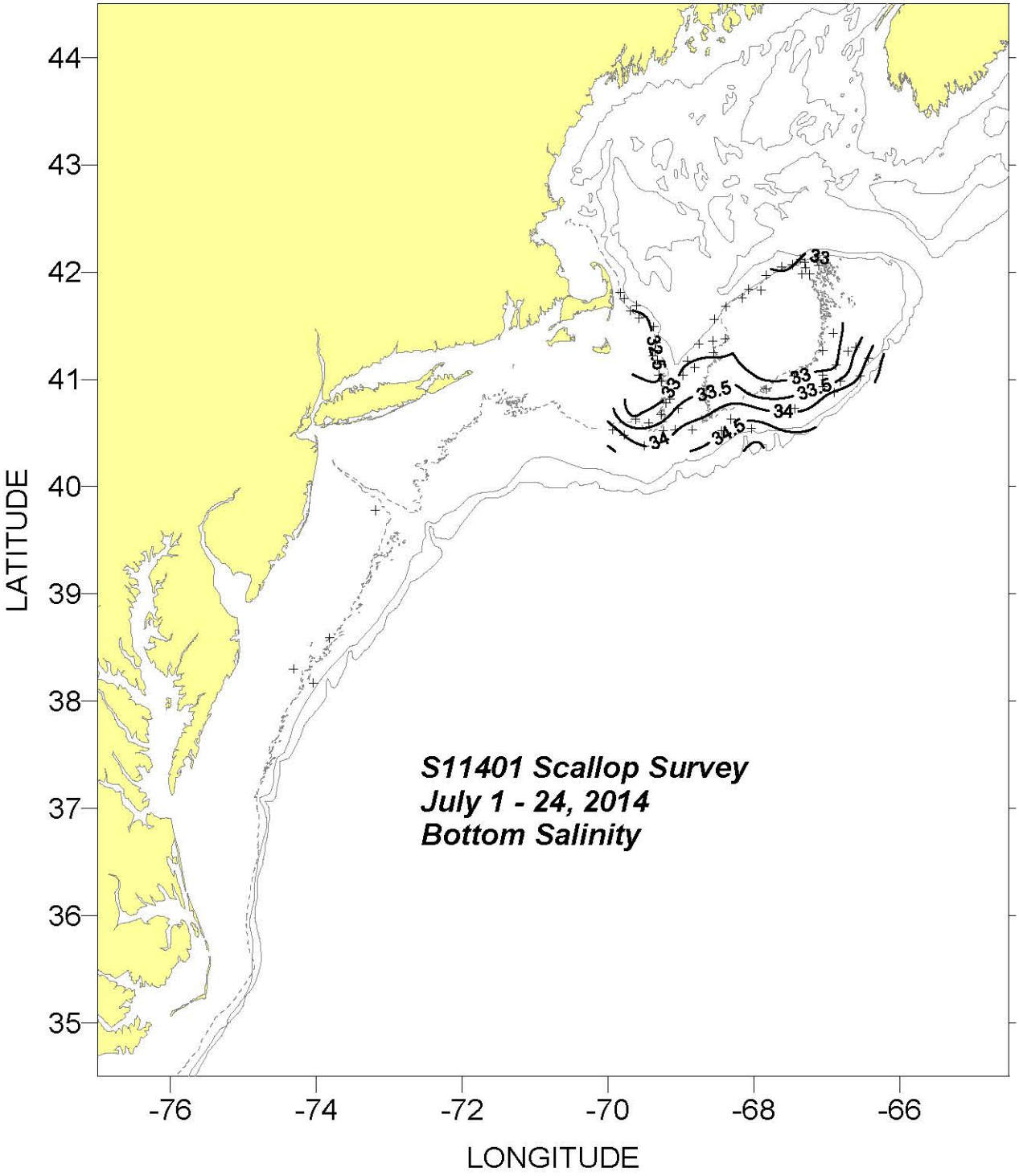
LONGITUDE
S11401 Scallop Survey
July 1 - 24, 2014
Bottom Temperature Anomaly (deg C)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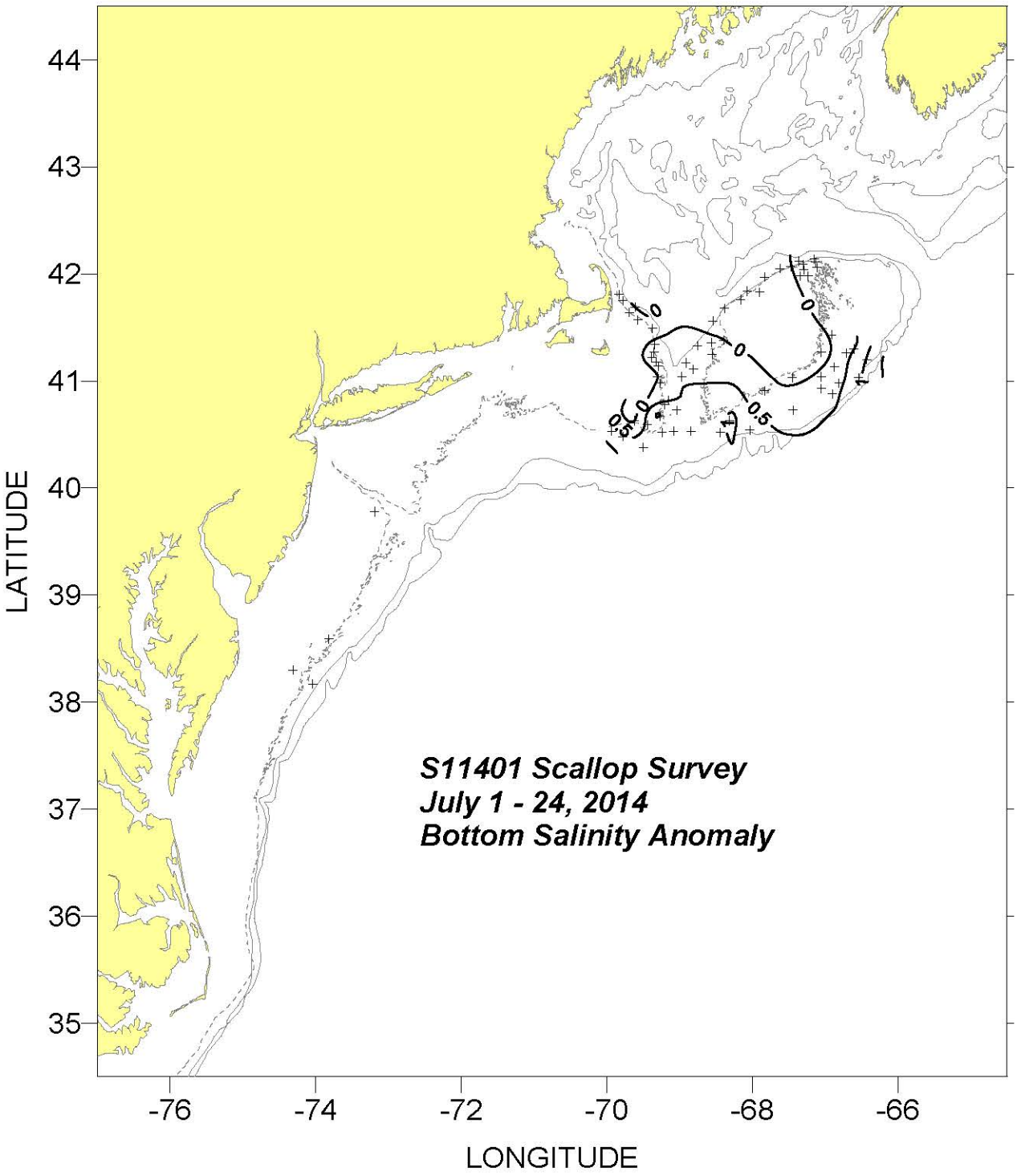
36
35
LATITUDE
-76
-74
-72
-70
-68
-66
LONGITUDE
33
32.5
33
33.5
33
33.5
34
34
34.5
S11401 Scallop Survey
July 1 - 24, 2014
Bottom Salinity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LATITUDE
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-66
LONGITUDE
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1
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S11401 Scallop Survey
July 1 - 24, 2014
Bottom Salinity Anomaly

S1 1401 Sea Scallop Survey
July 1 - 24, 2014

Cast #	Site_ID #	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
201	1	3818.1	7418.8	1	7	2014	10:06	47	23.19	32.10	8.00	33.18	2	W
202	2	3810.1	7402.5	2	7	2014	20:38	74	23.62	33.97	11.71	34.53	30	V
203	2	3810.1	7402.4	2	7	2014	20:49	73	24.11	32.49	12.06	34.78	2	W
204	5	3835.1	7349.4	3	7	2014	2:23	62	23.84	31.26	6.69	33.18	2	V
205	9999	3946.8	7311.7	3	7	2014	14:07	46	23.05	31.23	5.97	32.82	2	W
301	8	4031.8	6955.7	8	7	2014	12:03	65	14.07	32.25	12.03	34.29	1	W
302	10	4028.8	6946.5	8	7	2014	15:30	72	14.47	32.23	12.69	34.57	4	W
303	12	4037.9	6937.1	8	7	2014	18:16	56	13.60	32.11	10.13	32.76	4	V
304	14	4035.2	6926.2	8	7	2014	21:06	53	13.05	32.12	10.94	32.75	5	V
305	16	4022.9	6929.8	9	7	2014	1:41	70	17.77	32.93	10.47	33.82	2	V
306	18	4031.5	6914.4	9	7	2014	4:51	70	14.46	32.34	10.88	33.92	5	V
307	20	4032.1	6904.5	9	7	2014	7:34	77	16.20	33.21	10.94	34.04	5	W
308	22	4031.7	6850.2	9	7	2014	11:49	71	17.13	33.79	11.66	34.24	5	V
309	24	4031.0	6826.2	9	7	2014	17:53	92	15.74	33.51	11.38	34.36	7	W
310	26	4037.6	6818.6	9	7	2014	20:49	82	14.98	32.98	11.58	34.41	7	V
311	28	4032.5	6801.9	10	7	2014	1:03	103	15.17	33.17	11.97	35.03	1	V
312	30	4043.7	6726.6	10	7	2014	8:01	91	14.10	33.12	10.66	34.01	5	V
313	33	4055.9	6703.0	10	7	2014	15:58	82	14.16	32.89	9.56	33.49	6	W
314	35	4102.5	6702.7	10	7	2014	18:06	69	14.73	32.79	9.77	32.99	4	W
315	37	4116.2	6702.8	10	7	2014	21:03	67	14.18	32.73	10.61	32.86	2	V
316	39	4108.0	6652.4	11	7	2014	0:06	71	14.27	32.73	9.80	32.95	4	V
317	41	4052.5	6654.0	11	7	2014	3:44	91	14.19	33.45	10.89	34.11	4	V
318	43	4059.0	6648.3	11	7	2014	5:50	74	13.95	32.84	9.19	33.06	5	W
319	45	4102.0	6632.1	11	7	2014	9:26	93	12.34	32.82	10.04	34.03	6	V
320	48	4111.9	6625.7	11	7	2014	13:18	90	14.02	33.14	10.86	34.50	3	V
321	50	4115.8	6642.5	11	7	2014	16:55	75	12.68	32.75	9.27	33.00	4	V
322	52	4117.9	6635.8	11	7	2014	18:52	85	13.39	32.66	9.07	33.18	4	W
323	54	4125.8	6654.3	11	7	2014	21:51	70	11.95	32.75	10.18	32.83	3	V

S1 1401 Sea Scallop Survey
July 1 - 24, 2014

Cast #	Site_ID #	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
324	56	4101.7	6727.0	13	7	2014	19:02	65	14.05	32.77	11.27	32.87	3	W
325	58	4054.8	6749.5	13	7	2014	22:39	61	16.92	32.75	11.05	32.93	3	V
401	59	4110.3	6854.4	17	7	2014	9:58	99	13.82	33.18	7.72	32.84	4	W
402	61	4106.3	6848.4	17	7	2014	13:48	69	13.24	33.03	12.88	33.03	3	V
403	63	4115.0	6833.1	17	7	2014	17:43	60	14.69	32.91	14.67	32.91	2	W
404	65	4120.0	6844.8	17	7	2014	21:25	97	13.75	32.96	10.38	32.96	4	V
405	68	4121.7	6833.7	18	7	2014	0:27	76	13.96	32.81	11.77	32.98	4	V
406	70	4122.7	6823.4	18	7	2014	3:16	62	14.01	32.82	13.14	32.95	6	V
407	72	4133.9	6832.5	18	7	2014	7:06	121	15.23	32.35	7.72	32.78	6	W
408	74	4140.9	6822.8	18	7	2014	10:10	53	14.85	32.87	10.26	32.93	5	V
409	77	4145.5	6809.8	18	7	2014	14:00	53	15.32	32.52	9.43	32.88	1	V
410	79	4150.2	6804.2	18	7	2014	16:47	75	15.83	32.38	10.79	32.90	3	W
411	81	4150.0	6753.9	18	7	2014	19:26	47	14.79	32.53	14.16	32.63	3	V
412	83	4158.0	6749.6	18	7	2014	21:40	83	16.88	32.24	8.46	33.01	2	V
413	86	4203.1	6737.1	19	7	2014	1:46	99	18.83	32.19	6.67	33.20	1	V
414	88	4204.0	6728.3	19	7	2014	4:56	63	16.82	32.36	10.03	32.86	4	W
415	90	4207.3	6721.7	19	7	2014	7:22	92	16.75	32.38	11.70	32.79	2	V
416	92	4205.7	6717.9	19	7	2014	11:17	50	13.71	32.58	10.56	32.80	2	V
417	94	4202.6	6717.1	19	7	2014	13:48	45	16.21	32.44	12.48	32.69	2	V
418	96	4158.9	6720.1	19	7	2014	16:07	55	15.38	32.48	13.37	32.62	2	W
419	98	4158.8	6713.6	19	7	2014	18:31	54	14.47	32.52	14.11	32.53	3	V
420	100	4203.6	6706.3	19	7	2014	21:11	57	13.65	32.56	12.76	32.63	3	V
421	102	4208.2	6708.9	19	7	2014	23:55	76	14.09	32.58	7.71	33.14	2	W
422	104	4206.9	6707.6	20	7	2014	2:41	59	18.41	32.29	7.48	33.10	3	V
423	105	4043.9	6902.1	22	7	2014	11:51	63	16.75	33.43	12.06	33.46	3	W
424	107	4040.4	6916.3	22	7	2014	14:24	48	16.67	33.21	13.03	33.55	2	V
425	109	4047.1	6912.2	22	7	2014	17:06	65	15.70	33.20	13.04	33.35	2	W
426	111	4049.3	6908.9	22	7	2014	19:47	67	16.09	33.04	12.75	33.42	2	V
427	113	4059.0	6916.1	22	7	2014	22:32	60	11.33	32.11	11.15	32.24	2	V

S1 1401 Sea Scallop Survey
July 1 - 24, 2014

Cast #	Site_ID #	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
428	115	4102.3	6858.4	23	7	2014	2:33	79	14.78	33.01	13.10	33.12	2	V
429	117	4102.5	6918.0	23	7	2014	5:53	53	10.82	32.38	10.99	32.42	3	W
430	119	4108.4	6917.6	23	7	2014	9:53	49	10.28	32.47	9.98	32.69	1	V
431	121	4110.6	6919.1	23	7	2014	14:54	50	10.42	32.24	10.06	32.29	3	V
432	123	4113.0	6922.6	23	7	2014	17:44	50	14.87	31.77	6.75	32.38	1	W
433	125	4116.1	6920.9	23	7	2014	21:57	61	14.67	31.80	6.28	32.47	2	V
434	127	4120.7	6920.6	24	7	2014	0:35	61	14.17	31.93	6.09	32.51	3	V
435	129	4129.2	6922.1	24	7	2014	4:01	76	16.72	31.36	6.01	32.49	3	W
436	131	4134.0	6934.2	24	7	2014	7:46	52	16.26	31.38	6.11	32.48	2	V
437	134	4138.2	6941.3	24	7	2014	11:49	57	16.38	31.40	6.54	32.30	2	V
438	136	4148.7	6950.0	24	7	2014	15:41	79	13.14	31.56	5.70	32.80	2	W
439	138	4144.9	6946.7	24	7	2014	20:48	81	13.86	31.17	6.03	32.50	2	V
440	140	4141.1	6936.3	24	7	2014	23:40	125	17.05	31.44	5.45	32.89	3	V

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