Appendix Table 1. The 2009 regional average temperature and salinity values for individual cruises that sampled within the western Gulf of Maine (boundaries defined in Figure 1.) Average values incorporating less than 10 observations are shown in gray.

Gulf of Maine West

Cruise	CD	#obs	Surface Temp	Anomaly	SDV1	SDV2	Flag	#obs	Bottom Temp	Anomaly	SDV1	SDV2	Flag
DEL0902	42	29	4.64	-0.58	0.19	0.45	0	20	6.26	0.32	0.20	0.58	0
HB0901	112	66	5.90	0.47	0.14	0.59	0	63	5.37	0.28	0.12	0.56	0
DEL0905	160	15	11.38	0.24	0.25	0.56	0	30	6.21	0.11	0.22	1.55	1
S10901	172	11	13.00	1.26	0.34	4.98	1	11	5.56	-0.27	0.34	3.90	1
DEL0907	202	6	16.54	-0.44	0.48	1.37	1	6	6.18	0.42	0.37	0.37	1
DEL0908	225	23	15.42	-0.49	0.18	3.41	1	23	13.32	-2.47	0.19	7.27	1
DEL0909	240	11	20.17	2.01	0.32	5.09	1	9	5.82	0.15	0.30	3.60	1
DEL0910	276	64	15.04	0.87	0.14	0.95	1	63	7.18	0.28	0.12	2.37	1
HB0905	315	47	10.65	0.45	0.16	0.64	0	45	7.97	0.66	0.14	1.10	0
DEL0911	323	14	10.74	1.09	0.29	6.89	1	10	7.20	0.33	0.30	5.48	1

Cruise	CD	#obs	Surface Salinity	Anomaly	SDV1	SDV2	Flag	#obs	Bottom Salinity	Anomaly	SDV1	SDV2	Flag
DEL0902	42	29	32.92	-0.10	0.13	0.17	0	20	33.68	0.08	0.12	0.25	0
HB0901	112	66	32.25	-0.26	0.09	0.55	0	63	33.29	-0.05	0.07	0.23	0
DEL0905	160	15	31.96	-0.16	0.16	0.24	0	30	33.31	-0.11	0.13	0.54	1
S10901	172	11	32.03	-0.12	0.19	1.12	1	11	32.56	-0.24	0.17	0.48	1
DEL0907	202	6	30.21	-1.16	0.31	0.45	1	6	32.12	-0.37	0.27	0.05	1
DEL0908	225	23	32.42	-0.09	0.12	0.52	1	23	32.50	-0.03	0.11	0.40	1
DEL0909	240	11	31.47	-0.55	0.20	1.09	1	9	33.54	-0.13	0.18	1.02	1
DEL0910	276	64	31.96	-0.22	0.09	0.25	1	63	33.44	-0.03	0.07	0.37	1
HB0905	315	47	32.54	-0.19	0.10	0.33	0	45	33.41	-0.18	0.08	0.23	0
DEL0911	323	14	32.69	-0.04	0.18	2.22	1	10	33.47	-0.15	0.16	2.44	1

"Cruise", the code name for a cruise:
CD, the calendar mid-date of all the stations within a region for that cruise:
"#obs", the number of observations included in each average:
"Temp", the areal average temperature: "Salt", the areal average salinity:
Anomaly, the areal average temperature or salinity anomaly:
"SDV1",the standard deviation associated with the average temperature or salinity 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.

Appendix Table 2. The 2009 regional average temperature and salinity values for individual cruises that sampled within the eastern Gulf of Maine (boundaries defined in Figure 1.) Average values incorporating less than 10 observations are shown in gray.

Gulf of Maine East

Cruise	CD	#obs	Surface Temp	Anomaly	SDV1	SDV2	Flag	#obs	Bottom Temp	Anomaly	SDV1	SDV2	Flag
DEL0902	41	19	4.67	-0.82	0.22	1.05	1	11	6.86	-0.02	0.29	1.34	1
HB0901	118	36	5.54	0.00	0.17	0.72	0	33	6.34	-0.53	0.18	0.72	0
DEL0905	159	20	9.72	0.84	0.24	0.98	0	14	7.11	0.16	0.27	0.70	0
S10901	173	8	9.96	-0.16	0.35	7.55	1	8	7.38	-2.50	0.34	6.00	1
DEL0908	221	64	16.71	2.42	0.12	2.88	1	63	9.19	-3.53	0.11	5.19	1
DEL0909	239	6	16.38	1.37	0.44	15.26	1	4	7.51	0.40	0.50	-9.99	1
DEL0910	262	42	15.97	0.34	0.16	1.45	1	41	9.36	0.31	0.15	3.19	1
HB0905	312	35	11.05	0.01	0.16	1.11	1	33	8.69	0.19	0.17	2.08	1
DEL0911	322	9	12.22	1.91	0.34	10.14	1	6	8.03	-0.09	0.39	8.26	1

Cruise	CD	#obs	Surface Salinity	Anomaly	SDV1	SDV2	Flag	#obs	Bottom Salinity	Anomaly	SDV1	SDV2	Flag
DEL0902	41	19	32.89	-0.16	0.15	0.43	1	11	34.05	-0.11	0.16	0.58	1
HB0901	118	36	32.26	-0.18	0.11	0.27	0	33	33.93	-0.17	0.09	0.31	0
DEL0905	159	20	32.16	-0.11	0.18	0.42	0	14	34.05	0.11	0.16	0.22	0
S10901	173	8	32.63	-0.11	0.20	1.68	1	8	32.73	-0.05	0.20	0.74	1
DEL0908	221	64	32.00	-0.51	0.07	0.41	1	63	32.59	-0.05	0.07	0.29	1
DEL0909	239	6	32.35	0.01	0.28	3.26	1	4	33.87	0.07	0.24	-9.99	1
DEL0910	262	42	32.21	-0.19	0.10	0.34	1	41	34.30	0.01	0.08	0.52	1
HB0905	312	35	32.37	-0.36	0.12	0.64	1	33	34.26	-0.12	0.09	0.47	1
DEL0911	322	9	32.57	0.00	0.22	3.27	1	6	34.50	-0.36	0.21	3.68	1

"Cruise", the code name for a cruise:
CD, the calendar mid-date of all the stations within a region for that cruise:
"#obs", the number of observations included in each average:
"Temp", the areal average temperature: "Salt", the areal average salinity:
Anomaly, the areal average temperature or salinity anomaly:
"SDV1",the standard deviation associated with the average temperature or salinity 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.

Appendix Table 3. The 2009 regional average temperature and salinity values for individual cruises that sampled within the Georges Bank area (boundaries defined in Figure 1.) Average values incorporating less than 10 observations are shown in gray.

Georges Bank

Cruise	CD	#obs	Surface Temp	Anomaly	SDV1	SDV2	Flag	#obs	Bottom Temp	Anomaly	SDV1	SDV2	Flag
DEL0902	37	38	4.89	-0.61	0.18	0.95	0	28	5.58	-0.25	0.20	1.18	0
HB0901	103	60	5.71	0.29	0.14	1.23	0	46	5.63	0.33	0.18	1.15	0
DEL0905	156	33	10.55	0.63	0.20	1.20	0	24	8.32	0.12	0.25	0.88	0
S10901	173	30	12.30	1.09	0.21	2.12	0	29	8.19	-0.17	0.23	1.76	0
DEL0908	221	178	15.47	0.69	0.07	1.20	1	177	12.84	-1.28	0.07	2.44	1
HB0903	224	4	21.82	1.80	0.83	1.49	1	0					
DEL0909	237	45	17.32	1.13	0.16	1.80	0	38	12.10	-0.20	0.18	1.32	0
DEL0910	268	32	15.21	0.02	0.17	0.72	1	32	13.30	-0.34	0.17	2.80	1
HB0905	299	60	13.58	-0.27	0.14	1.86	0	48	12.26	0.03	0.17	1.37	0
DEL0911	317	39	13.84	1.64	0.17	3.18	0	33	13.68	2.07	0.20	2.37	0

Cruise	CD	#obs	Surface Salinity	Anomaly	SDV1	SDV2	Flag	#obs	Bottom Salinity	Anomaly	SDV1	SDV2	Flag
DEL0902	37	38	32.65	-0.30	0.10	0.51	0	28	32.98	-0.11	0.12	0.46	0
HB0901	103	60	32.83	-0.16	0.08	0.46	0	46	33.01	-0.14	0.11	0.34	0
DEL0905	156	33	32.55	-0.30	0.11	0.55	0	24	32.95	-0.11	0.15	0.31	0
S10901	173	30	32.69	-0.01	0.12	0.49	0	29	32.82	-0.21	0.14	0.22	0
DEL0908	221	178	32.23	-0.29	0.04	0.18	1	177	32.42	-0.16	0.04	0.14	1
HB0903	224	4	33.17	-0.55	0.53	0.91	1	0					
DEL0909	237	45	32.35	-0.33	0.10	0.38	0	38	32.70	-0.23	0.11	0.37	0
DEL0910	268	32	32.29	-0.22	0.10	0.19	1	32	32.49	-0.08	0.10	0.30	1
HB0905	299	60	32.80	0.03	0.09	0.68	0	48	32.92	-0.08	0.10	0.33	0
DEL0911	317	39	33.16	0.42	0.10	1.03	0	33	33.76	0.71	0.12	1.05	0

"Cruise", the code name for a cruise:
CD, the calendar mid-date of all the stations within a region for that cruise:
"#obs", the number of observations included in each average:
"Temp", the areal average temperature: "Salt", the areal average salinity:
Anomaly, the areal average temperature or salinity anomaly:
"SDV1",the standard deviation associated with the average temperature or salinity 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.

Appendix Table 4. The 2009 regional average temperature and salinity values for individual cruises that sampled within the northern Middle-Atlantic Bight (boundaries defined in Figure 1.) Average values incorporating less than 10 observations are shown in gray.

Northern Mid Atlantic Bight

			Surface						Bottom				
Cruise	CD	#obs	Temp	Anomaly	SDV1	SDV2	Flag	#obs	Temp	Anomaly	SDV1	SDV2	Flag
DEL0902	31	28	5.83	-0.60	0.24	1.00	0	21	7.19	0.30	0.29	1.69	0
HB0901	85	56	5.31	0.67	0.17	1.18	0	49	5.15	-0.50	0.22	1.61	0
S10901	148	15	11.84	0.42	0.32	2.18	1	15	6.02	-0.67	0.31	2.82	1
DEL0905	150	31	12.29	0.32	0.23	1.26	0	29	7.36	-0.23	0.25	1.63	0
HB0903	228	2	23.90	0.86	1.14	-9.99	1	0					
DEL0909	233	24	23.16	3.00	0.27	2.29	0	22	11.17	1.13	0.31	1.51	0
HB0904	237	1	24.75	2.60	1.46	-9.99	1	0					
HB0905	276	59	18.23	0.66	0.17	1.05	0	42	13.96	1.23	0.22	2.06	0
DEL0910	286	9	15.41	-0.90	0.43	0.61	1	9	14.16	-0.06	0.43	1.19	1
DEL0911	310	31	13.49	-0.50	0.23	0.74	0	27	13.84	0.79	0.28	1.12	0

			Surface						Bottom				
Cruise	CD	#obs	Salinity	Anomaly	SDV1	SDV2	Flag	#obs	Salinity	Anomaly	SDV1	SDV2	Flag
DEL0902	31	27	32.81	-0.34	0.16	0.33	0	21	33.31	-0.27	0.17	0.61	0
HB0901	85	56	32.69	-0.23	0.11	0.42	0	49	32.79	-0.70	0.12	0.51	0
S10901	148	15	31.70	-0.37	0.21	0.66	1	15	32.66	-0.27	0.19	1.06	1
DEL0905	150	31	32.21	-0.19	0.15	0.42	0	29	32.83	-0.34	0.15	0.40	0
HB0903	228	2	33.47	-0.31	0.75	-9.99	1	0					
DEL0909	233	24	32.18	-0.24	0.17	0.76	0	22	33.24	0.01	0.18	0.52	0
HB0904	237	1	33.25	0.18	0.97	-9.99	1	0					
HB0905	276	59	32.93	0.19	0.11	0.64	0	42	33.57	0.08	0.13	0.58	0
DEL0910	286	9	32.06	-0.58	0.25	0.22	1	9	32.43	-0.45	0.25	0.42	1
DEL0911	310	31	32.72	-0.20	0.16	0.82	0	27	33.57	0.05	0.16	0.62	0

"Cruise", the code name for a cruise:
CD, the calendar mid-date of all the stations within a region for that cruise:
"#obs", the number of observations included in each average:
"Temp", the areal average temperature: "Salt", the areal average salinity:
Anomaly, the areal average temperature or salinity anomaly:
"SDV1",the standard deviation associated with the average temperature or salinity 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.

Appendix Table 5. The 2009 regional average temperature and salinity values for individual cruises that sampled within the southern Middle-Atlantic Bight, whose boundaries are defined in Figure 1. Average values incorporating less than 10 observations are shown in gray.

Southern Mid Atlantic Bight

			Surface						Bottom				
Cruise	CD	#obs	Temp	Anomaly	SDV1	SDV2	Flag	#obs	Temp	Anomaly	SDV1	SDV2	Flag
DEL0901	18	22	10.30	0.71	0.30	1.27	1	15	10.37	1.26	0.37	1.79	1
DEL0902	32	39	7.20	0.19	0.22	1.78	0	35	7.54	0.52	0.26	1.21	0
HB0901	72	89	6.90	1.09	0.14	1.37	0	76	6.71	1.05	0.17	1.73	0
S10901	139	59	12.74	-0.29	0.17	1.02	1	58	7.94	0.19	0.18	1.37	1
DEL0905	151	46	16.28	0.39	0.20	1.17	0	42	10.25	0.49	0.21	1.45	1
HB0903	219	6	25.11	1.43	0.63	0.76	1	2	8.64	1.99	0.99	1.32	1
DEL0909	232	43	25.84	2.03	0.19	1.26	0	40	11.15	-1.54	0.21	3.06	1
HB0904	239	29	24.89	2.43	0.29	0.73	1	1	9.78	2.12	1.30	-9.99	1
HB0905	264	92	21.35	-0.14	0.14	1.09	0	70	17.20	3.02	0.18	2.75	0
DEL0911	311	46	15.17	-0.26	0.19	0.77	0	40	15.40	0.84	0.23	1.23	0

			Surface						Bottom				
Cruise	CD	#obs	Salinity	Anomaly	SDV1	SDV2	Flag	#obs	Salinity	Anomaly	SDV1	SDV2	Flag
DEL0901	18	21	34.25	0.04	0.22	0.44	1	14	34.29	0.29	0.22	0.46	1
DEL0902	32	39	33.07	-0.43	0.17	1.29	0	35	33.58	0.02	0.16	0.45	0
HB0901	72	89	32.95	-0.22	0.11	0.74	0	76	33.51	0.05	0.10	0.61	0
S10901	139	59	32.55	-0.07	0.12	0.30	1	58	33.51	-0.04	0.11	0.52	1
DEL0905	151	46	32.01	-0.11	0.16	0.69	0	42	32.60	-0.42	0.13	0.43	1
HB0903	219	6	31.98	-1.54	0.43	0.18	1	2	33.55	0.50	0.57	0.80	1
DEL0909	232	43	30.88	-1.04	0.15	0.70	0	39	32.79	-0.24	0.13	0.45	1
HB0904	239	29	32.32	-1.26	0.19	0.73	1	1	33.12	-0.35	0.76	-9.99	1
HB0905	264	92	32.41	0.11	0.11	1.27	0	70	32.86	-0.41	0.11	1.06	0
DEL0911	311	46	32.82	-0.10	0.15	1.02	0	40	33.21	-0.17	0.14	0.74	0

"Cruise", the code name for a cruise:
CD, the calendar mid-date of all the stations within a region for that cruise:
"#obs", the number of observations included in each average:
"Temp", the areal average temperature: "Salt", the areal average salinity:
Anomaly, the areal average temperature or salinity anomaly:
"SDV1",the standard deviation associated with the average temperature or salinity 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.

Appendix Table 6. The 2009 temperature, salinity and volume of the shelf water in the Middle-Atlantic Bight during 2009. The shelf water is defined as water within the upper 100 meters having salinity less than 34.

CD	Temp	Temp. Anomaly	Salt	Salt Anomaly	SHW Temp	SHW T. Anom	SHW Salt	SHW S. Anom	SHW Volume	SHW Vol. Anomaly
						MABN				
31	7.42	0.47	33.26	-0.3	6.28	0.49	32.89	-0.25	2075.22	118.96
85	5.81	0.23	32.99	-0.34	5.14	0.63	32.76	-0.28	2247.54	171.79
150	9.21	-0.27	32.88	-0.36	8.55	-0.27	32.55	-0.3	2185.27	265.35
233	14.31	0.5	33.16	-0.3	13.96	0.58	32.86	0.06	2088.66	238.75
276	15.91	0.94	33.68	0.04	15.32	0.78	33	0.09	1546.93	28.56
310	14.14	-0.23	33.49	-0.23	13.46	-0.33	32.9	-0.11	1745.06	387.07
						MABS				
32	8.9	-0.14	34.05	-0.14	5.96	0.06	32.88	-0.35	1094.44	-69.61
72	8.14	0.22	33.85	-0.12	6.23	1.04	33.11	-0.27	1720.13	390.97
151	10.94	-0.07	33.03	-0.31	10.87	0.28	32.71	0.03	2538.19	469.41
232	15.81	-0.22	33.01	-0.3	15.93	0.69	32.3	-0.39	2296	-4.36
264	17.76	1.35	33.51	-0.02	17.82	1.49	32.65	-0.3	1941.84	-161.04
311	15.31	0.53	33.66	-0.27	14.96	-0.09	33.19	0.14	2126.31	476