



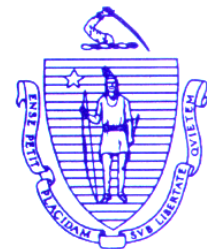
David E. Pierce
Director

Commonwealth of Massachusetts

Division of Marine Fisheries

1213 Purchase St. 3rd Floor
New Bedford, MA 02740

(508)990-2860
fax (508)990-0449



Charles D. Baker
Governor

Karyn E. Polito
Lieutenant Governor

Matthew A. Beaton
Secretary

George N. Peterson, Jr.
Commissioner

Mary-Lee King
Deputy Commissioner

June 1, 2017

Fixed Gear Fishermen of Massachusetts,

Marine Fisheries will be conducting its annual fall trawl survey throughout state coastal waters beginning September 5, 2017. Surveys have been conducted each May and September since 1978 to provide a consistent sampling of benthic fishes and mobile invertebrates. Survey data is used to monitor the condition of fish stocks, as well as to inform the environmental review process that minimizes construction impacts on fisheries resources. Maintaining access to the planned sampling sites is critical to the integrity of the survey.

Please review the attached table of station locations and the accompanying figures which plot the sample sites. Station location information can also be accessed on our website

(<http://www.mass.gov/eea/agencies/dfg/dmf/programs-and-projects/resource-assessment-surveys-project.html>). **We kindly ask for your cooperation and insist that all fixed gear be kept clear of station**

locations (1.5 n. mi. diameter circle as shown in figure - center point reported in table) for the indicated periods until station completion. While we will make every attempt to complete stations during the assigned

period to minimize inconvenience to fixed gear fishermen, *Marine Fisheries* is prepared to attach restrictions to permit renewals (under 322 CMR 7.01 (7)), mandating that fixed gear not be set on designated trawl survey sites for the announced dates. It remains our hope that this action will be unnecessary.

Sign-up to receive text notifications of trawl survey progress on the *Marine Fisheries* website

(<http://www.mass.gov/dmf/trawlsurvey>). A daily updated list of completed survey stations will be sent via text, and posted on the *Marine Fisheries* website and on Twitter (handle: @MassDMF). The Massachusetts Lobstermen's Association will also post survey information on their webpage (<http://www.lobstermen.com>), as well as on Facebook (username: lobstermensassoc) and Twitter (handle: @masslobstermens). In the event of a delay due to weather, the schedule will be resumed as soon as working conditions permit. Fishermen can contact the R/V *Gloria Michelle* on VHF channels 13 or 16 to determine the updated daily schedule.

Personnel aboard the NOAA R/V *Gloria Michelle*, a 65' western rigged steel stern trawler with a blue hull and white deckhouse, will carefully check each site for marked gear by cruising along a selected tow path before the net is set. Twenty-minute tows undertaken at 2.5 knots cover approximately 0.8 nautical miles. We encourage communicating helpful information to the R/V officers (via channels 13 or 16).

Your cooperation is greatly appreciated and is vital to the effective monitoring of marine resources in the Commonwealth. If you have any questions about the survey, please contact me (matt.camisa@state.ma.us, (508) 990-2860 x 139). **If you have any questions about the *Marine Fisheries* website, Facebook, or Twitter, please contact Story Reed (story.reed@state.ma.us, 617- 626-1524).**

Sincerely,

Matt Camisa
Senior Marine Fisheries Biologist

Cc. David Pierce, Director

Massachusetts Division of Marine Fisheries
September 2017 Fall Trawl Survey Station Locations
Massachusetts Bay to New Hampshire

* Loran coordinates taken from NOAA paper charts.
Please refer to Lat/Long for best accuracy.

Area Description	Depth	Range of Dates	Latitude	Longitude	Loran	Sta. ID#
Cape Ann and North	0-30'	September 9-12	42°41.10	-70°42.93	13822.7 / 44369.4	N-1
	0-30'	September 9-12	42°43.07	-70°45.60	13829.5 / 44384.9	N-2
	31'-60'	September 9-12	42°45.13	-70°46.48	13824.1 / 44397.3	N-3
	31'-60'	September 9-12	42°41.18	-70°40.65	13807.6 / 44365.3	N-4
	61'-90'	September 9-12	42°47.53	-70°46.23	13809.6 / 44409.4	N-5
	61'-90'	September 9-12	42°46.08	-70°46.06	13816.3 / 44401.4	N-6
	61'-90'	September 9-12	42°44.26	-70°44.27	13814.4 / 44388.7	N-7
	91'-120'	September 9-12	42°49.88	-70°44.94	13788.2 / 44419.0	N-8
	91'-120'	September 9-12	42°41.87	-70°36.08	13774.4 / 44360.3	N-9
	91'-120'	September 9-12	42°39.35	-70°34.24	13776.1 / 44343.7	N-10
	121'-180'	September 9-12	42°36.46	-70°33.63	13787.8 / 44327.0	N-11
	121'-180'	September 9-12	42°42.88	-70°36.30	13770.2 / 44365.9	N-12
	121'-180'	September 9-12	42°43.75	-70°37.24	13771.7 / 44372.4	N-13
	181'+	September 9-12	42°40.05	-70°30.49	13748.6 / 44340.4	N-14
	181'+	September 9-12	42°42.59	-70°34.12	13758.0 / 44360.3	N-15
Massachusetts Bay	0-30'	September 8-10	42°26.86	-70°55.60	13978.5 / 44315.4	N-16
	0-30'	September 7-9	42°16.99	-70°51.53	14000.8 / 44251.3	N-17
	31'-60'	September 7-9	42°18.02	-70°50.21	13987.2 / 44254.9	N-18
	31'-60'	September 8-10	42°24.66	-70°56.08	13992.5 / 44303.8	N-19
	31'-60'	September 7-9	42°13.89	-70°44.46	13970.6 / 44220.3	N-20
	61'-90'	September 8-10	42°26.84	-70°53.41	13964.2 / 44311.0	N-21
	61'-90'	September 8-10	42°23.45	-70°54.02	13985.0 / 44293.0	N-22
	61'-90'	September 8-10	42°24.71	-70°54.00	13978.8 / 44300.2	N-23
	91'-120'	September 7-9	42°18.77	-70°43.26	13939.4 / 44246.3	N-24
	91'-120'	September 8-10	42°23.34	-70°49.31	13955.4 / 44283.7	N-25
	91'-120'	September 8-10	42°28.56	-70°46.29	13909.8 / 44307.2	N-26
	121'-180'	September 8-10	42°27.16	-70°47.94	13927.4 / 44302.5	N-27
	121'-180'	September 7-9	42°19.39	-70°42.22	13929.8 / 44248.2	N-28
	121'-180'	September 9-12	42°34.07	-70°35.24	13810.3 / 44316.7	N-29
	121'-180'	September 8-12	42°32.13	-70°40.12	13851.8 / 44315.3	N-30
	181'+	September 8-12	42°31.93	-70°36.94	13832.5 / 44308.3	N-31
	181'+	September 8-12	42°25.73	-70°39.91	13883.2 / 44279.8	N-32

Massachusetts Division of Marine Fisheries
September 2017 Fall Trawl Survey Station Locations
Cape Cod Bay and East of Cape Cod.

* Loran coordinates taken from NOAA paper charts.
Please refer to Lat/Long for best accuracy.

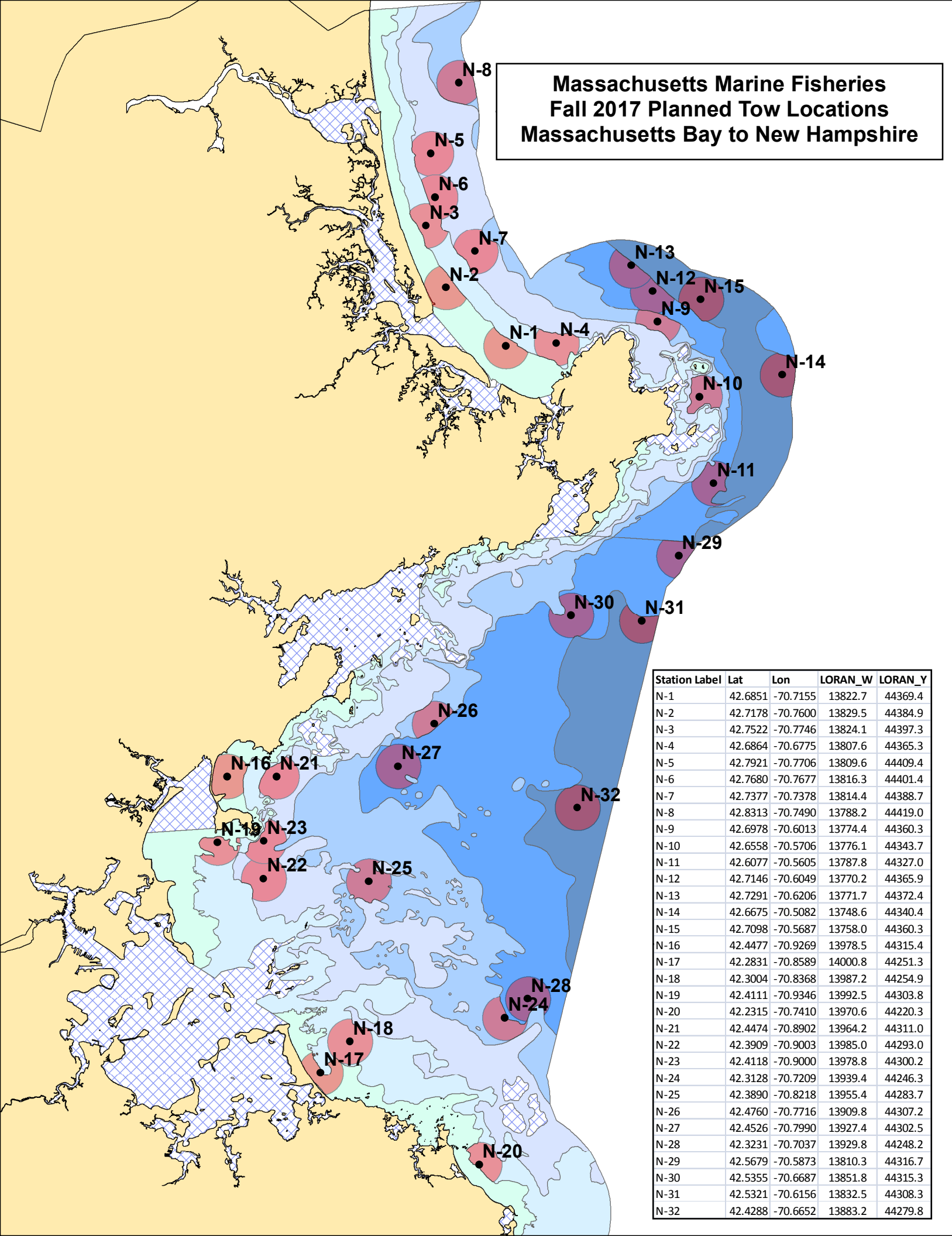
Area Description	Depth	Range of Dates	Latitude	Longitude	Loran	Sta. ID#
Western Cape Cod Bay	0-30'	September 5-8	41°48.95	-70°31.43	14005.0 / 44048.6	C-1
	0-30'	September 5-9	42°03.06	-70°38.10	13982.2 / 44145.4	C-2
	0-30'	September 5-8	41°45.54	-70°26.74	13991.9 / 44020.3	C-3
	31'-60'	September 5-8	41°49.35	-70°29.86	13993.7 / 44048.7	C-4
	31'-60'	September 5-8	41°47.90	-70°14.70	13909.8 / 44016.6	C-5
	31'-60'	September 5-8	41°46.01	-70°25.49	13982.2 / 44021.3	C-6
	31'-60'	September 5-8	41°45.91	-70°14.51	13917.5 / 44004.3	C-7
	61'-90'	September 5-8	41°49.20	-70°16.47	13914.3 / 44027.2	C-8
	61'-90'	September 5-8	41°57.06	-70°31.72	13970.1 / 44098.7	C-9
	61'-90'	September 5-8	41°50.74	-70°19.75	13926.9 / 44041.3	C-10
	61'-90'	September 5-8	41°49.63	-70°27.07	13975.6 / 44045.9	C-11
	91'-120'	September 11-14	41°55.24	-70°19.58	13905.0 / 44068.2	C-12
	91'-120'	September 5-8	41°52.00	-70°25.87	13957.6 / 44058.6	C-13
	91'-120'	September 5-8	41°53.53	-70°25.86	13950.7 / 44067.9	C-14
	121'-180'	September 5-8	42°02.24	-70°30.84	13940.8 / 44128.4	C-15
	121'-180'	September 5-8	41°59.88	-70°26.19	13923.4 / 44106.5	C-16
	121'-180'	September 11-15	42°01.43	-70°23.99	13902.7 / 44112.1	C-17
Eastern Cape Cod Bay	0-30'	September 11-14	41°54.41	-70°06.83	13833.4 / 44043.8	C-18
	0-30'	September 5-8	41°48.76	-70°03.23	13838.6 / 44004.8	C-19
	31'-60'	September 5-8	41°48.23	-70°10.91	13886.0 / 44012.8	C-20
	31'-60'	September 11-14	41°55.88	-70°07.76	13832.0 / 44053.9	C-21
	31'-60'	September 11-14	41°51.79	-70°11.01	13870.1 / 44034.5	C-22
	61'-90'	September 11-14	41°56.98	-70°08.96	13833.8 / 44062.1	C-23
	61'-90'	September 5-8	41°50.45	-70°14.51	13897.0 / 44031.7	C-24
	61'-90'	September 11-14	42°00.05	-70°08.97	13819.2 / 44080.2	C-25
	91'-120'	September 11-14	41°58.43	-70°12.51	13848.0 / 44076.0	C-26
	91'-120'	September 11-14	41°52.87	-70°14.94	13888.4 / 44046.8	C-27
	91'-120'	September 11-14	41°55.55	-70°13.86	13869.5 / 44061.2	C-28
	121'-180'	September 7-9, 11-15	42°07.16	-70°27.66	13898.5 / 44151.9	C-29
	121'-180'	September 11-15	42°00.77	-70°21.87	13893.0 / 44104.9	C-30
	121'-180'	September 11-15	42°01.14	-70°16.23	13857.3 / 44097.8	C-31
	181'+	September 11-15	42°05.36	-70°25.56	13894.2 / 44137.9	C-32
	181'+	September 11-15	42°06.99	-70°23.00	13870.7 / 44143.1	C-33
	181'+	September 12-15	42°05.86	-70°16.43	13836.5 / 44125.6	C-34
East of Cape Cod	0-30'	September 13-16	41°53.26	-69°56.98	13781.2 / 44022.3	B-1
	0-30'	September 13-16	41°50.53	-69°56.47	13790.8 / 44005.4	B-2
	31'-60'	September 14-16	41°45.50	-69°54.88	13805.2 / 43973.2	B-3
	31'-60'	September 14-16	41°41.58	-69°52.83	13811.4 / 43946.7	B-4
	31'-60'	September 14-16	41°37.07	-69°53.79	13837.0 / 43920.6	B-5
	61'-90'	September 14-16	41°40.90	-69°52.67	13813.6 / 43942.3	B-6
	61'-90'	September 13-16	41°57.72	-69°57.93	13765.6 / 44049.9	B-7
	91'-120'	September 14-16	41°46.02	-69°52.34	13788.4 / 43972.7	B-8
	91'-120'	September 13-16	42°03.38	-70°01.24	13757.5 / 44087.6	B-9
	91'-120'	September 14-16	41°48.02	-69°53.01	13782.9 / 43985.5	B-10
	121'-180'	September 12-15	42°06.40	-70°14.04	13819.6 / 44125.0	B-11
	121'-180'	September 13-16	42°05.19	-70°03.00	13759.7 / 44100.6	B-12
	121'-180'	September 13-16	42°07.55	-70°10.68	13793.5 / 44126.1	B-13

Massachusetts Division of Marine Fisheries
September 2017 Fall Trawl Survey Station Locations
South of Cape Cod

* Loran coordinates taken from NOAA paper charts.
Please refer to Lat/Long for best accuracy.

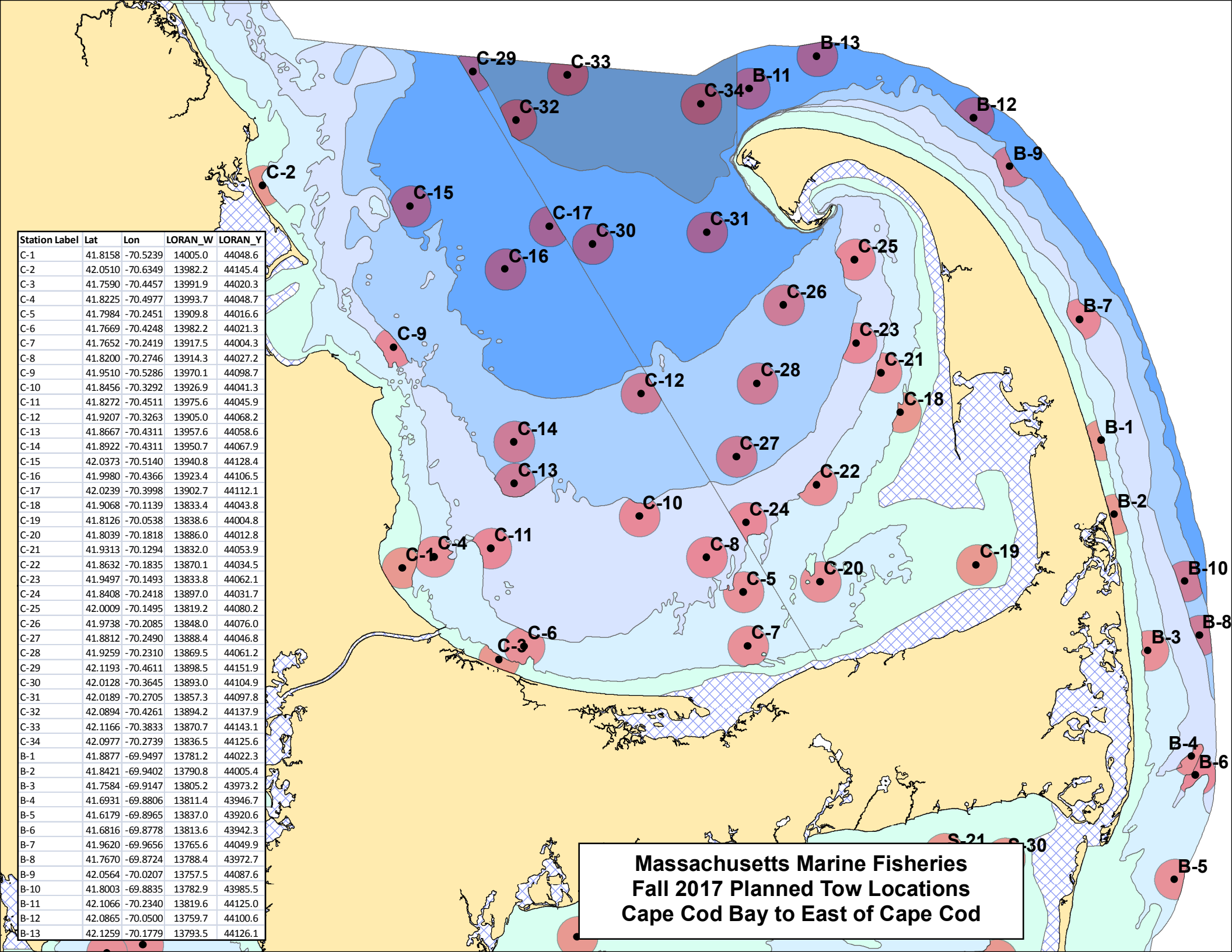
Area Description	Depth	Range of Dates	Latitude	Longitude	Loran	Sta. ID#
Nantucket Sound	0-30'	September 15-25	41°38.16	-70°05.05	13897.0 / 43942.8	S-21
	0-30'	September 15-25	41°35.31	-70°23.08	14014.7 / 43950.9	S-22
	0-30'	September 15-25	41°23.50	-70°10.98	13993.8 / 43859.5	S-23
	0-30'	September 15-25	41°20.00	-70°13.45	14022.0 / 43840.0	S-24
	0-30'	September 15-25	41°21.01	-70°16.42	14034.9 / 43850.4	S-25
	0-30'	September 15-25	41°25.81	-70°31.09	14101.0 / 43901.5	S-26
	0-30'	September 15-25	41°28.69	-70°16.18	14002.3 / 43899.4	S-27
	0-30'	September 15-25	41°34.24	-70°02.57	13899.9 / 43915.5	S-28
	0-30'	September 15-25	41°23.30	-70°13.69	14010.1 / 43861.7	S-29
	0-30'	September 15-25	41°37.95	-70°02.10	13880.8 / 43937.5	S-30
	31'-60'	September 15-25	41°27.98	-70°27.59	14071.9 / 43910.6	S-31
	31'-60'	September 15-25	41°26.51	-70°07.46	13961.0 / 43873.8	S-32
	31'-60'	September 15-25	41°30.38	-70°11.84	13969.8 / 43904.0	S-33
	31'-60'	September 15-25	41°28.42	-70°24.57	14052.4 / 43909.3	S-34
	31'-60'	September 15-25	41°22.86	-70°12.25	14003.7 / 43857.0	S-35
	31'-60'	September 15-25	41°29.58	-70°25.74	14054.4 / 43918.4	S-36
	31'-60'	September 15-25	41°31.77	-70°29.94	14070.1 / 43938.3	S-37
	31'-60'	September 15-25	41°27.19	-70°13.09	13990.5 / 43885.6	S-38
	31'-60'	September 15-25	41°19.43	-70°06.83	13986.7 / 43827.9	S-39
	31'-60'	September 15-25	41°31.48	-70°07.71	13941.1 / 43905.3	S-40
	31'-60'	September 15-25	41°22.17	-70°06.11	13971.4 / 43844.7	S-41
Buzzards Bay and Vineyard Sound	0-30'	September 15-25	41°21.18	-70°46.97	14213.6 / 43893.0	S-1
	0-30'	September 15-25	41°36.09	-70°48.31	14162.6 / 43993.4	S-2
	0-30'	September 15-25	41°38.14	-70°44.80	14132.8 / 44001.3	S-3
	31'-60'	September 15-25	41°33.23	-70°48.45	14175.0 / 43975.2	S-4
	31'-60'	September 15-25	41°35.20	-70°44.34	14142.1 / 43981.8	S-5
	31'-60'	September 15-25	41°33.94	-70°41.05	14127.5 / 43968.7	S-6
	31'-60'	September 15-25	41°34.91	-70°46.10	14154.0 / 43982.6	S-7
	31'-60'	September 15-25	41°21.54	-70°49.53	14227.6 / 43899.2	S-8
	61'-90'	September 15-25	41°22.91	-70°48.07	14213.6 / 43906.4	S-9
	61'-90'	September 15-25	41°28.82	-70°41.41	14150.3 / 43935.9	S-10
	61'-90'	September 15-25	41°27.79	-70°43.39	14166.4 / 43932.0	S-11
	91'-120'	September 15-25	41°21.80	-70°55.74	14264.0 / 43910.0	S-12
Southwest of Gay Head and South of Martha's Vineyard	91'-120'	September 15-25	41°23.34	-70°53.77	14246.3 / 43917.4	S-13
	0-30'	September 15-25	41°17.55	-70°29.49	14124.5 / 43844.9	S-14
	0-30'	September 15-25	41°24.16	-70°25.64	14075.7 / 43883.7	S-15
	31'-60'	September 15-25	41°16.56	-70°47.28	14233.1 / 43862.4	S-16
	31'-60'	September 15-25	41°18.92	-70°32.69	14138.0 / 43858.3	S-17
	61'-90'	September 15-25	41°18.59	-70°36.35	14160.7 / 43861.0	S-18
	61'-90'	September 15-25	41°15.20	-70°44.96	14224.6 / 43850.0	S-19
	91'-120'	September 15-25	41°18.71	-70°52.24	14254.7 / 43883.8	S-20
South and East of Nantucket	0-30'	September 15-25	41°17.58	-70°18.40	14060.0 / 43830.8	S-42
	0-30'	September 14-25	41°27.95	-70°00.45	13914.9 / 43873.6	S-43
	0-30'	September 14-25	41°21.88	-69°59.38	13934.8 / 43834.2	S-44
	31'-60'	September 14-25	41°21.48	-69°57.07	13923.2 / 43828.9	S-45
	31'-60'	September 15-25	41°15.80	-70°15.34	14049.8 / 43815.2	S-46
	31'-60'	September 15-25	41°13.81	-70°03.58	13990.9 / 43787.7	S-47
	61'-90'	September 15-25	41°14.58	-70°16.01	14058.3 / 43808.1	S-48

Massachusetts Marine Fisheries Fall 2017 Planned Tow Locations Massachusetts Bay to New Hampshire



Station Label	Lat	Lon	LORAN_W	LORAN_Y
C-1	41.8158	-70.5239	14005.0	44048.6
C-2	42.0510	-70.6349	13982.2	44145.4
C-3	41.7590	-70.4457	13991.9	44020.3
C-4	41.8225	-70.4977	13993.7	44048.7
C-5	41.7984	-70.2451	13909.8	44016.6
C-6	41.7669	-70.4248	13982.2	44021.3
C-7	41.7652	-70.2419	13917.5	44004.3
C-8	41.8200	-70.2746	13914.3	44027.2
C-9	41.9510	-70.5286	13970.1	44098.7
C-10	41.8456	-70.3292	13926.9	44041.3
C-11	41.8272	-70.4511	13975.6	44045.9
C-12	41.9207	-70.3263	13905.0	44068.2
C-13	41.8667	-70.4311	13957.6	44058.6
C-14	41.8922	-70.4311	13950.7	44067.9
C-15	42.0373	-70.5140	13940.8	44128.4
C-16	41.9980	-70.4366	13923.4	44106.5
C-17	42.0239	-70.3998	13902.7	44112.1
C-18	41.9068	-70.1139	13833.4	44043.8
C-19	41.8126	-70.0538	13838.6	44004.8
C-20	41.8039	-70.1818	13886.0	44012.8
C-21	41.9313	-70.1294	13832.0	44053.9
C-22	41.8632	-70.1835	13870.1	44034.5
C-23	41.9497	-70.1493	13833.8	44062.1
C-24	41.8408	-70.2418	13897.0	44031.7
C-25	42.0009	-70.1495	13819.2	44080.2
C-26	41.9738	-70.2085	13848.0	44076.0
C-27	41.8812	-70.2490	13888.4	44046.8
C-28	41.9259	-70.2310	13869.5	44061.2
C-29	42.1193	-70.4611	13898.5	44151.9
C-30	42.0128	-70.3645	13893.0	44104.9
C-31	42.0189	-70.2705	13857.3	44097.8
C-32	42.0894	-70.4261	13894.2	44137.9
C-33	42.1166	-70.3833	13870.7	44143.1
C-34	42.0977	-70.2739	13836.5	44125.6
B-1	41.8877	-69.9497	13781.2	44022.3
B-2	41.8421	-69.9402	13790.8	44005.4
B-3	41.7584	-69.9147	13805.2	43973.2
B-4	41.6931	-69.8806	13811.4	43946.7
B-5	41.6179	-69.8965	13837.0	43920.6
B-6	41.6816	-69.8778	13813.6	43942.3
B-7	41.9620	-69.9656	13765.6	44049.9
B-8	41.7670	-69.8724	13788.4	43972.7
B-9	42.0564	-70.0207	13757.5	44087.6
B-10	41.8003	-69.8835	13782.9	43985.5
B-11	42.1066	-70.2340	13819.6	44125.0
B-12	42.0865	-70.0500	13759.7	44100.6
B-13	42.1259	-70.1779	13793.5	44126.1

**Massachusetts Marine Fisheries
Fall 2017 Planned Tow Locations
Cape Cod Bay to East of Cape Cod**



Massachusetts Marine Fisheries
Fall 2017 Planned Tow Locations
South of Cape Cod Bay

Station Label	Lat	Lon	LORAN_W	LORAN_Y	Station Label	Lat	Lon	LORAN_W	LORAN_Y	Station Label	Lat	Lon	LORAN_W	LORAN_Y
S-1	41.3531	-70.7828	14213.6	43893.0	S-17	41.3153	-70.5448	14138.0	43858.3	S-33	41.5063	-70.1974	13969.8	43904.0
S-2	41.6015	-70.8052	14162.6	43993.4	S-18	41.3099	-70.6058	14160.7	43861.0	S-34	41.4737	-70.4095	14052.4	43909.3
S-3	41.6356	-70.7467	14132.8	44001.3	S-19	41.2533	-70.7494	14224.6	43850.0	S-35	41.3810	-70.2042	14003.7	43857.0
S-4	41.5538	-70.8076	14175.0	43975.2	S-20	41.3119	-70.8706	14254.7	43883.8	S-36	41.4931	-70.4290	14054.4	43918.4
S-5	41.5867	-70.7389	14142.1	43981.8	S-21	41.6359	-70.0842	13897.0	43942.8	S-37	41.5295	-70.4989	14070.1	43938.3
S-6	41.5656	-70.6842	14127.5	43968.7	S-22	41.5885	-70.3846	14014.7	43950.9	S-38	41.4532	-70.2181	13990.5	43885.6
S-7	41.5818	-70.7684	14154.0	43982.6	S-23	41.3917	-70.1829	13993.8	43859.5	S-39	41.3238	-70.1139	13986.7	43827.9
S-8	41.3589	-70.8255	14227.6	43899.2	S-24	41.3334	-70.2242	14022.0	43840.0	S-40	41.5247	-70.1286	13941.1	43905.3
S-9	41.3819	-70.8011	14213.6	43906.4	S-25	41.3502	-70.2736	14034.9	43850.4	S-41	41.3694	-70.1018	13971.4	43844.7
S-10	41.4804	-70.6902	14150.3	43935.9	S-26	41.4302	-70.5181	14101.0	43901.5	S-42	41.2930	-70.3066	14060.0	43830.8
S-11	41.4632	-70.7232	14166.4	43932.0	S-27	41.4782	-70.2697	14002.3	43899.4	S-43	41.4658	-70.0075	13914.9	43873.6
S-12	41.3634	-70.9290	14264.0	43910.0	S-28	41.5707	-70.0429	13899.9	43915.5	S-44	41.3647	-69.9896	13934.8	43834.2
S-13	41.3890	-70.8962	14246.3	43917.4	S-29	41.3884	-70.2281	14010.1	43861.7	S-45	41.3580	-69.9512	13923.2	43828.9
S-14	41.2924	-70.4916	14124.5	43844.9	S-30	41.6325	-70.0349	13880.8	43937.5	S-46	41.2633	-70.2557	14049.8	43815.2
S-15	41.4026	-70.4273	14075.7	43883.7	S-31	41.4664	-70.4599	14071.9	43910.6	S-47	41.2302	-70.0596	13990.9	43787.7
S-16	41.2760	-70.7880	14233.1	43862.4	S-32	41.4418	-70.1243	13961.0	43873.8	S-48	41.2431	-70.2668	14058.3	43808.1

