



David E. Pierce, Ph.D.
Director

Commonwealth of Massachusetts

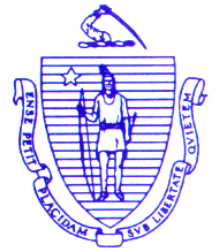
Division of Marine Fisheries

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February 15, 2018

Fixed Gear Fishermen of Massachusetts,

Marine Fisheries will be conducting its annual spring trawl survey throughout state coastal waters beginning May 7, 2018. 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/traulsurvey>). 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 39743). **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
May 2018 Spring 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'	May 11-14	42°45.61	-70°47.52	13828.5 / 44401.8	N-1
	0-30'	May 11-14	42°50.61	-70°48.59	13808.1 / 44429.9	N-2
	31'-60'	May 11-14	42°41.93	-70°43.14	13819.5 / 44374.1	N-3
	31'-60'	May 11-14	42°44.62	-70°45.80	13822.5 / 44393.5	N-4
	61'-90'	May 11-14	42°47.66	-70°45.87	13806.3 / 44409.4	N-5
	61'-90'	May 11-14	42°36.78	-70°36.37	13803.2 / 44334.1	N-6
	61'-90'	May 11-14	42°44.26	-70°44.27	13814.4 / 44388.7	N-7
	91'-120'	May 11-14	42°39.63	-70°34.06	13773.4 / 44344.9	N-8
	91'-120'	May 11-14	42°42.03	-70°38.08	13786.0 / 44365.0	N-9
	91'-120'	May 11-14	42°43.18	-70°41.09	13799.5 / 44376.6	N-10
	121'-180'	May 11-14	42°35.39	-70°35.41	13804.4 / 44324.3	N-11
	121'-180'	May 11-14	42°36.52	-70°33.63	13787.2 / 44327.2	N-12
	121'-180'	May 11-14	42°38.28	-70°32.81	13772.5 / 44335.4	N-13
	181'+	May 11-14	42°36.01	-70°33.15	13786.7 / 44323.3	N-14
	181'+	May 11-14	42°37.74	-70°30.59	13761.5 / 44328.1	N-15
Massachusetts Bay	0-30'	May 9-12	42°16.97	-70°51.66	14003.2 / 44251.5	N-16
	0-30'	May 10-12	42°27.33	-70°55.04	13972.3 / 44317.5	N-17
	31'-60'	May 9-12	42°17.25	-70°51.50	13999.6 / 44252.6	N-18
	31'-60'	May 9-12	42°17.02	-70°48.70	13982.7 / 44246.3	N-19
	31'-60'	May 10-12	42°27.12	-70°54.35	13969.4 / 44314.8	N-20
	61'-90'	May 9-12	42°18.66	-70°47.90	13968.9 / 44254.5	N-21
	61'-90'	May 10-12	42°26.94	-70°52.67	13958.4 / 44310.1	N-22
	61'-90'	May 10-12	42°23.59	-70°54.42	13987.0 / 44294.5	N-23
	91'-120'	May 9-12	42°18.95	-70°44.00	13943.4 / 44244.0	N-24
	91'-120'	May 10-12	42°23.10	-70°49.43	13957.3 / 44282.8	N-25
	91'-120'	May 10-14	42°32.85	-70°43.76	13871.3 / 44326.5	N-26
	121'-180'	May 10-14	42°30.68	-70°40.81	13863.8 / 44308.9	N-27
	121'-180'	May 9-12	42°19.53	-70°42.31	13929.7 / 44249.4	N-28
	121'-180'	May 10-14	42°30.90	-70°43.03	13876.8 / 44314.2	N-29
	181'+	May 10-15	42°25.45	-70°39.50	13882.2 / 44277.5	N-30
	181'+	May 10-15	42°28.23	-70°37.95	13857.9 / 44289.9	N-31

Massachusetts Division of Marine Fisheries
May 2018 Spring 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.

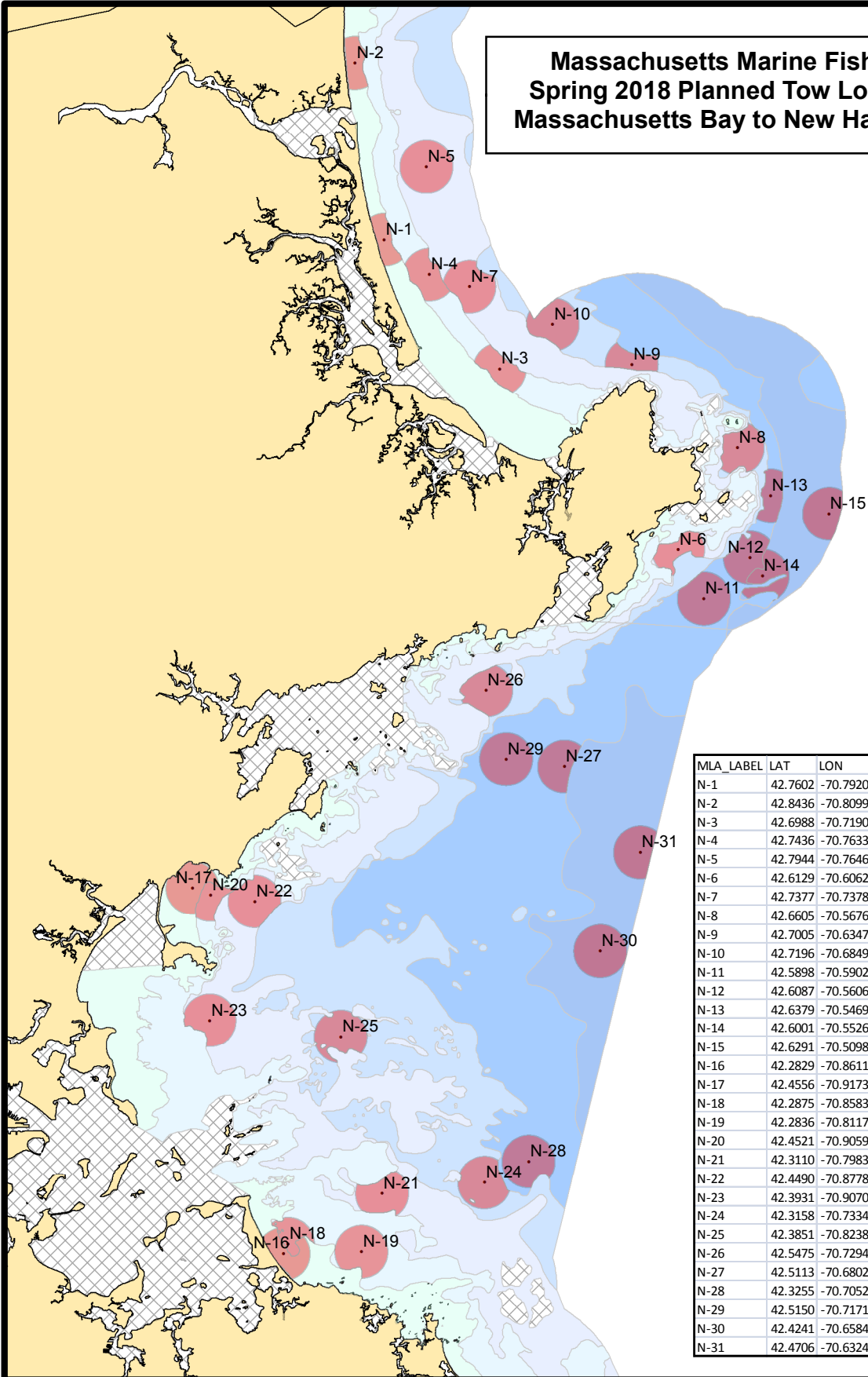
Area Description	Depth	Range of Dates	Latitude	Longitude	Loran	Sta. ID#
Western Cape Cod Bay	0-30'	May 7-11	42°02.15	-70°37.43	13981.8 / 44138.8	C-1
	0-30'	May 7-10	41°44.97	-70°16.84	13935.4 / 44002.0	C-2
	0-30'	May 7-10	41°50.93	-70°31.02	13993.5 / 44060.2	C-3
	31'-60'	May 7-10	41°47.40	-70°14.65	13911.5 / 44013.5	C-4
	31'-60'	May 7-10	41°48.57	-70°29.49	13995.0 / 44043.3	C-5
	31'-60'	May 7-10	41°45.81	-70°21.31	13958.2 / 44014.0	C-6
	61'-90'	May 7-10	41°50.40	-70°23.77	13952.3 / 44045.8	C-7
	61'-90'	May 13-16	41°51.23	-70°19.18	13921.0 / 44043.5	C-8
	61'-90'	May 7-10	41°47.34	-70°21.96	13955.3 / 44024.3	C-9
	91'-120'	May 7-10	41°52.83	-70°23.28	13938.2 / 44059.7	C-10
	91'-120'	May 7-10	41°54.27	-70°25.40	13944.6 / 44071.5	C-11
	91'-120'	May 7-11	41°57.82	-70°30.32	13958.0 / 44101.0	C-12
	121'-180'	May 13-16	41°59.33	-70°23.59	13910.2 / 44098.8	C-13
	121'-180'	May 7-11	41°57.78	-70°26.92	13937.6 / 44095.4	C-14
	121'-180'	May 13-16	42°01.74	-70°24.22	13902.5 / 44114.3	C-15
Eastern Cape Cod Bay	0-30'	May 7-10	41°47.25	-70°07.60	13871.0 / 44002.4	C-16
	0-30'	May 7-10	41°48.85	-70°05.10	13848.8 / 44003.4	C-17
	31'-60'	May 7-10	41°48.29	-70°10.93	13885.8 / 44013.4	C-18
	31'-60'	May 14-16	42°00.94	-70°06.83	13802.0 / 44082.0	C-19
	61'-90'	May 14-16	42°01.42	-70°08.15	13807.0 / 44086.9	C-20
	61'-90'	May 7-10, 14-16	41°50.11	-70°13.68	13893.6 / 44028.7	C-21
	91'-120'	May 14-16	41°54.49	-70°11.97	13863.4 / 44052.0	C-22
	91'-120'	May 14-16	42°00.54	-70°11.01	13829.0 / 44086.1	C-23
	121'-180'	May 13-17	42°01.95	-70°19.25	13871.4 / 44107.5	C-24
	121'-180'	May 14-16	42°01.01	-70°14.42	13847.0 / 44094.0	C-25
	181'+	May 13-17	42°05.62	-70°22.05	13870.9 / 44133.9	C-26
	181'+	May 14-17	42°06.59	-70°17.11	13836.5 / 44131.2	C-27
	181'+	May 13-17	42°04.69	-70°20.10	13863.5 / 44125.0	C-28
East of Cape Cod	0-30'	May 16-19	41°35.74	-69°56.29	13857.3 / 43915.9	B-1
	0-30'	May 15-18	42°05.11	-70°09.14	13795.8 / 44109.9	B-2
	31'-60'	May 15-18	42°05.10	-70°07.09	13784.0 / 44106.5	B-3
	31'-60'	May 16-19	41°36.79	-69°54.92	13844.8 / 43920.3	B-4
	31'-60'	May 16-19	41°39.56	-69°54.45	13830.0 / 43936.8	B-5
	61'-90'	May 16-18	41°50.28	-69°55.16	13784.5 / 44002.1	B-6
	61'-90'	May 15-18	41°57.54	-69°57.57	13764.4 / 44048.2	B-7
	91'-120'	May 15-18	42°03.41	-70°01.25	13757.4 / 44087.8	B-8
	91'-120'	May 15-18	42°05.87	-70°06.63	13776.9 / 44110.2	B-9
	91'-120'	May 16-18	41°49.60	-69°53.29	13777.0 / 43995.3	B-10
	121'-180'	May 15-18	42°04.38	-70°01.20	13752.4 / 44093.4	B-11
	121'-180'	May 14-17	42°07.17	-70°14.44	13817.2 / 44130.1	B-12
	121'-180'	May 15-18	42°06.59	-70°09.38	13790.0 / 44119.0	B-13

Massachusetts Division of Marine Fisheries
May 2018 Spring Trawl Survey Station Locations
South of Cape Cod

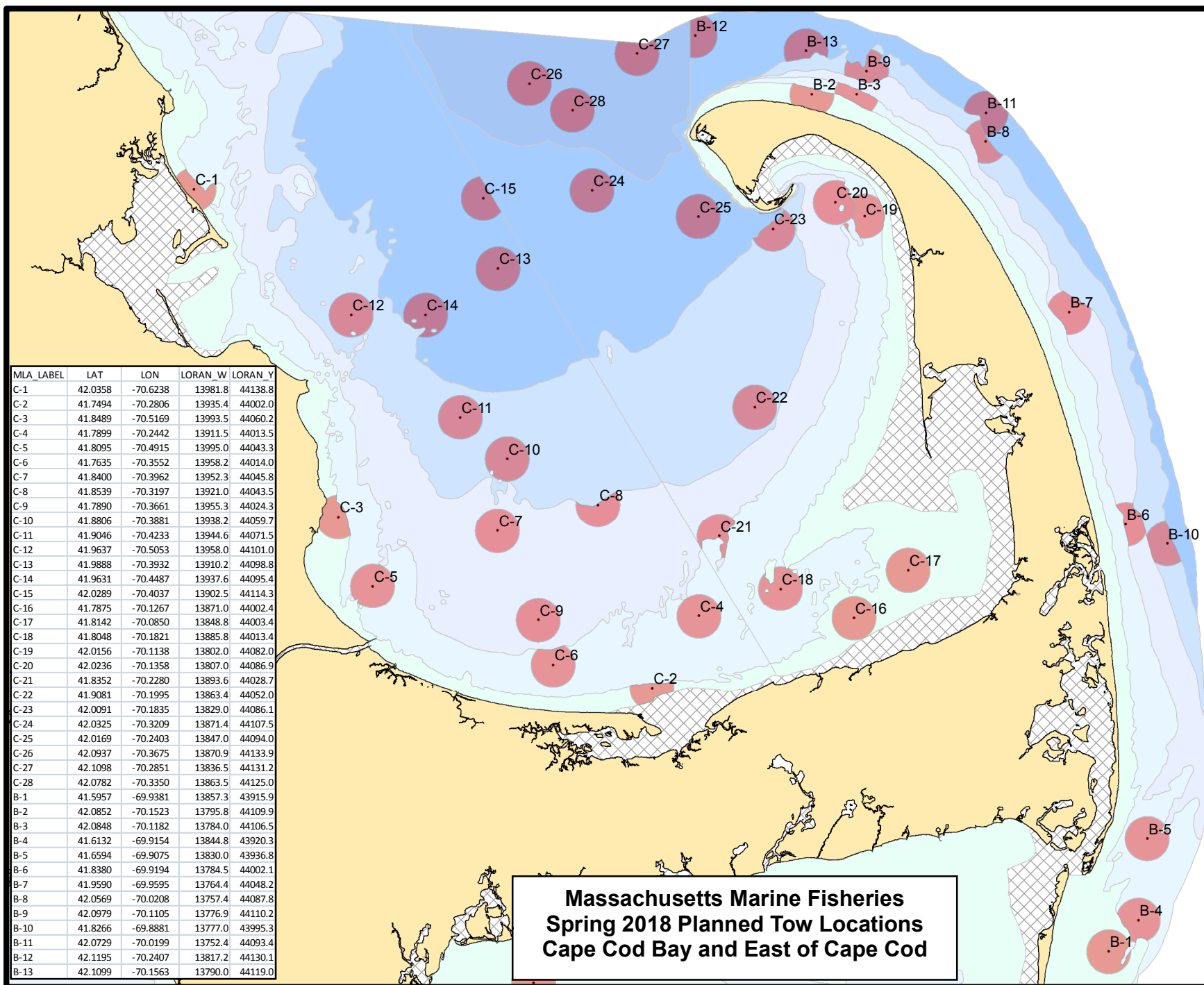
* Loran coordinates taken from NOAA paper charts.
Please refer to Lat/Long for best accuracy.

Area Description	Depth	Range of Dates	Latitude	Longitude	Loran	Sta. ID#
Nantucket Sound	0-30'	May 17-27	41°23.82	-70°11.29	13994.0 / 43861.9	S-20
	0-30'	May 17-27	41°24.12	-70°19.27	14039.1 / 43874.5	S-21
	0-30'	May 17-27	41°25.39	-70°25.69	14071.3 / 43891.3	S-22
	0-30'	May 17-27	41°32.34	-70°17.42	13994.1 / 43924.0	S-23
	0-30'	May 17-27	41°32.50	-70°31.00	14073.8 / 43944.3	S-24
	0-30'	May 17-27	41°32.61	-70°11.71	13959.9 / 43917.8	S-25
	0-30'	May 17-27	41°33.88	-70°13.73	13966.0 / 43928.5	S-26
	0-30'	May 17-27	41°36.01	-70°07.78	13922.0 / 43946.6	S-27
	0-30'	May 17-27	41°35.00	-70°22.40	14012.0 / 43948.0	S-28
	0-30'	May 17-27	41°31.83	-70°21.36	14019.5 / 43926.5	S-29
	31'-60'	May 17-27	41°28.67	-70°13.49	13986.8 / 43895.5	S-30
	31'-60'	May 17-27	41°26.55	-70°22.42	14047.3 / 43894.4	S-31
	31'-60'	May 17-27	41°24.73	-70°16.60	14021.2 / 43874.7	S-32
	31'-60'	May 17-27	41°29.83	-70°30.05	14078.7 / 43926.0	S-33
	31'-60'	May 17-27	41°28.21	-70°05.37	13941.8 / 43881.5	S-34
	31'-60'	May 17-27	41°26.18	-70°08.80	13970.0 / 43873.5	S-35
	31'-60'	May 17-27	41°29.78	-70°24.40	14045.5 / 43917.8	S-36
	31'-60'	May 17-27	41°30.00	-70°02.29	13916.8 / 43888.9	S-37
	31'-60'	May 17-27	41°20.30	-70°05.65	13976.2 / 43832.0	S-38
	31'-60'	May 17-27	41°28.23	-70°02.32	13924.5 / 43877.6	S-39
	31'-60'	May 17-27	41°36.50	-70°04.63	13901.8 / 43932.2	S-40
Buzzards Bay and	0-30'	May 17-27	41°29.84	-71°03.35	14280.0 / 43975.3	S-1
Vineyard Sound	0-30'	May 17-27	41°39.67	-70°42.30	14111.0 / 44008.0	S-2
	0-30'	May 17-27	41°25.21	-70°45.39	14188.6 / 43917.5	S-3
	31'-60'	May 17-27	41°31.18	-70°50.39	14195.4 / 43964.7	S-4
	31'-60'	May 17-27	41°33.34	-70°46.89	14165.5 / 43973.6	S-5
	31'-60'	May 17-27	41°31.57	-70°48.39	14181.5 / 43964.0	S-6
	31'-60'	May 17-27	41°27.24	-70°52.41	14223.0 / 43941.7	S-7
	31'-60'	May 17-27	41°29.51	-70°47.99	14187.2 / 43950.0	S-8
	61'-90'	May 17-27	41°24.20	-70°51.62	14230.1 / 43920.1	S-9
	61'-90'	May 17-27	41°22.73	-70°49.77	14224.8 / 43907.5	S-10
	61'-90'	May 17-27	41°23.83	-70°45.87	14197.0 / 43909.4	S-11
	91'-120'	May 17-27	41°21.35	-70°56.59	14271.0 / 43908.3	S-12
Southwest of	0-30'	May 17-27	41°17.52	-70°24.12	14093.3 / 43837.9	S-13
Gay Head and	0-30'	May 17-27	41°16.45	-70°26.92	14113.8 / 43834.5	S-14
South of	31'-60'	May 17-27	41°17.29	-70°45.36	14219.0 / 43864.8	S-15
Martha's Vineyard	31'-60'	May 17-27	41°19.51	-70°33.95	14143.0 / 43864.4	S-16
	61'-90'	May 17-27	41°14.29	-70°46.30	14236.0 / 43845.8	S-17
	61'-90'	May 17-27	41°18.50	-70°34.90	14152.2 / 43858.5	S-18
	91'-120'	May 17-27	41°18.80	-70°52.33	14255.1 / 43884.6	S-19
South of Nantucket	0-30'	May 17-27	41°17.63	-70°18.84	14062.5 / 43831.6	S-41
	0-30'	May 16-27	41°21.93	-69°59.22	13933.5 / 43834.5	S-42
	0-30'	May 16-27	41°27.74	-70°00.88	13918.3 / 43873.0	S-43
	31'-60'	May 16-27	41°22.54	-69°57.79	13922.8 / 43836.5	S-44
	31'-60'	May 17-27	41°13.27	-70°03.94	13995.0 / 43785.1	S-45
	31'-60'	May 17-27	41°14.00	-70°11.66	14036.0 / 43799.0	S-46
	61'-90'	May 17-27	41°11.94	-70°07.95	14023.0 / 43781.1	S-47

Massachusetts Marine Fisheries Spring 2018 Planned Tow Locations Massachusetts Bay to New Hampshire



MLA_LABEL	LAT	LON	LORAN_W	LORAN_Y
N-1	42.7602	-70.7920	13828.5	44401.8
N-2	42.8436	-70.8099	13808.1	44429.9
N-3	42.6988	-70.7190	13819.5	44374.1
N-4	42.7436	-70.7633	13822.5	44393.5
N-5	42.7944	-70.7646	13806.3	44409.4
N-6	42.6129	-70.6062	13803.2	44334.1
N-7	42.7377	-70.7378	13814.4	44388.7
N-8	42.6605	-70.5676	13773.4	44344.9
N-9	42.7005	-70.6347	13786.0	44365.0
N-10	42.7196	-70.6849	13799.5	44376.6
N-11	42.5898	-70.5902	13804.4	44324.3
N-12	42.6087	-70.5606	13787.2	44327.2
N-13	42.6379	-70.5469	13772.5	44335.4
N-14	42.6001	-70.5526	13786.7	44323.3
N-15	42.6291	-70.5098	13761.5	44328.1
N-16	42.2829	-70.8611	14003.2	44251.5
N-17	42.4556	-70.9173	13972.3	44317.5
N-18	42.2875	-70.8583	13999.6	44252.6
N-19	42.2836	-70.8117	13982.7	44246.3
N-20	42.4521	-70.9059	13969.4	44314.8
N-21	42.3110	-70.7983	13968.9	44254.5
N-22	42.4490	-70.8778	13958.4	44310.1
N-23	42.3931	-70.9070	13987.0	44294.5
N-24	42.3158	-70.7334	13943.4	44244.0
N-25	42.3851	-70.8238	13957.3	44282.8
N-26	42.5475	-70.7294	13871.3	44326.5
N-27	42.5113	-70.6802	13863.8	44308.9
N-28	42.3255	-70.7052	13929.7	44249.4
N-29	42.5150	-70.7171	13876.8	44314.2
N-30	42.4241	-70.6584	13882.2	44277.5
N-31	42.4706	-70.6324	13857.9	44289.9



Massachusetts Marine Fisheries Spring 2018 Planned Tow Locations South of Cape Cod

MLA_LABEL	LAT	LON	LORAN_W	LORAN-Y	MLA_LABEL	LAT	LON	LORAN_W	LORAN-Y	MLA_LABEL	LAT	LON	LORAN_W	LORAN-Y
S-1	41.4974	-71.0558	14280.0	43975.3	S-17	41.2382	-70.7716	14236.0	43845.8	S-33	41.4971	-70.5009	14078.7	43926.0
S-2	41.6611	-70.7050	14111.0	44008.0	S-18	41.3083	-70.5816	14152.2	43858.5	S-34	41.4702	-70.0895	13941.8	43881.5
S-3	41.4201	-70.7566	14188.6	43917.5	S-19	41.3133	-70.8722	14255.1	43884.6	S-35	41.4364	-70.1467	13970.0	43873.5
S-4	41.5196	-70.8399	14195.4	43964.7	S-20	41.3970	-70.1882	13994.0	43861.9	S-36	41.4963	-70.4066	14045.5	43917.8
S-5	41.5557	-70.7815	14165.5	43973.6	S-21	41.4021	-70.3212	14039.1	43874.5	S-37	41.5000	-70.0381	13916.8	43888.9
S-6	41.5261	-70.8066	14181.5	43964.0	S-22	41.4232	-70.4281	14071.3	43891.3	S-38	41.3383	-70.0942	13976.2	43832.0
S-7	41.4541	-70.8735	14223.0	43941.7	S-23	41.5389	-70.2904	13994.1	43924.0	S-39	41.4706	-70.0387	13924.5	43877.6
S-8	41.4919	-70.7998	14187.2	43950.0	S-24	41.5416	-70.5166	14073.8	43944.3	S-40	41.6084	-70.0772	13901.8	43932.2
S-9	41.4034	-70.8603	14230.1	43920.1	S-25	41.5435	-70.1951	13959.9	43917.8	S-41	41.2939	-70.3139	14062.5	43831.6
S-10	41.3789	-70.8295	14224.8	43907.5	S-26	41.5647	-70.2289	13966.0	43928.5	S-42	41.3655	-69.9870	13933.5	43834.5
S-11	41.3971	-70.7645	14197.0	43909.4	S-27	41.6001	-70.1296	13922.0	43946.6	S-43	41.4623	-70.0147	13918.3	43873.0
S-12	41.3559	-70.9432	14271.0	43908.3	S-28	41.5833	-70.3733	14012.0	43948.0	S-44	41.3756	-69.9632	13922.8	43836.5
S-13	41.2921	-70.4021	14093.3	43837.9	S-29	41.5304	-70.3560	14019.5	43926.5	S-45	41.2212	-70.0657	13995.0	43785.1
S-14	41.2741	-70.4486	14113.8	43834.5	S-30	41.4778	-70.2248	13986.8	43895.5	S-46	41.2334	-70.1943	14036.0	43799.0
S-15	41.2882	-70.7560	14219.0	43864.8	S-31	41.4425	-70.3736	14047.3	43894.4	S-47	41.1990	-70.1326	14023.0	43781.1
S-16	41.3252	-70.5659	14143.0	43864.4	S-32	41.4122	-70.2766	14021.2	43874.7					

