



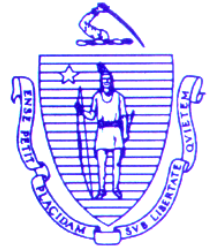
David E. Pierce
Director

Commonwealth of Massachusetts

Division of Marine Fisheries

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July 20, 2016

Fixed Gear Fishermen of Massachusetts,

Marine Fisheries will be conducting its annual fall trawl survey throughout state coastal waters beginning September 6, 2016. 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 Elaine Brewer (elaine.brewer@state.ma.us, (978) 282-0308 x 124).

Sincerely,

Matt Camisa
Senior Marine Fisheries Biologist

Cc. David Pierce, Director

Massachusetts Division of Marine Fisheries
September 2016 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 10-13	42°47.08	-70°47.86	13822.5 / 44410.1	N-1
	0-30'	September 10-13	42°40.42	-70°41.82	13819.0 / 44363.5	N-2
	31'-60'	September 10-13	42°43.21	-70°45.17	13825.8 / 44384.8	N-3
	31'-60'	September 10-13	42°41.31	-70°39.74	13801.0 / 44364.5	N-4
	61'-90'	September 10-13	42°44.46	-70°45.05	13818.5 / 44391.3	N-5
	61'-90'	September 10-13	42°42.74	-70°43.13	13815.0 / 44378.5	N-6
	61'-90'	September 10-13	42°51.39	-70°47.33	13795.6 / 44431.2	N-7
	91'-120'	September 10-13	42°42.57	-70°39.57	13793.0 / 44370.4	N-8
	91'-120'	September 10-13	42°36.32	-70°35.87	13802.6 / 44329.9	N-9
	91'-120'	September 10-13	42°49.89	-70°44.85	13787.5 / 44418.8	N-10
	121'-180'	September 10-13	42°42.70	-70°38.01	13782.0 / 44368.5	N-11
	121'-180'	September 10-13	42°35.42	-70°35.96	13808.0 / 44325.3	N-12
	121'-180'	September 10-13	42°44.12	-70°38.01	13774.5 / 44375.8	N-13
	181'+	September 10-13	42°39.46	-70°31.91	13761.0 / 44340.0	N-14
	181'+	September 10-13	42°42.10	-70°32.22	13748.5 / 44354.5	N-15
Massachusetts Bay	0-30'	September 9-11	42°24.31	-70°57.67	14004.5 / 44304.9	N-16
	0-30'	September 9-11	42°26.53	-70°55.13	13977.0 / 44312.9	N-17
	31'-60'	September 8-11	42°17.10	-70°48.34	13979.5 / 44246.4	N-18
	31'-60'	September 8-11	42°17.35	-70°51.51	13999.0 / 44253.5	N-19
	31'-60'	September 8-10	42°13.84	-70°44.37	13970.4 / 44220.0	N-20
	61'-90'	September 9-11	42°26.54	-70°53.79	13968.5 / 44310.4	N-21
	61'-90'	September 8-11	42°18.52	-70°48.40	13973.5 / 44254.5	N-22
	61'-90'	September 9-11	42°23.56	-70°53.89	13983.8 / 44293.5	N-23
	91'-120'	September 9-11	42°32.92	-70°43.32	13868.0 / 44325.2	N-24
	91'-120'	September 8-11	42°18.78	-70°43.36	13939.8 / 44246.9	N-25
	91'-120'	September 9-11	42°29.36	-70°45.77	13901.7 / 44310.7	N-26
	121'-180'	September 8-11	42°22.62	-70°41.86	13911.0 / 44266.0	N-27
	121'-180'	September 9-11	42°27.51	-70°47.05	13919.8 / 44303.0	N-28
	121'-180'	September 9-11	42°27.98	-70°43.27	13893.0 / 44298.5	N-29
	121'-180'	September 8-11	42°19.50	-70°42.49	13930.5 / 44249.5	N-30
	181'+	September 9-14	42°28.00	-70°38.84	13865.0 / 44290.4	N-31
	181'+	September 9-14	42°31.27	-70°37.47	13839.5 / 44305.6	N-32

Massachusetts Division of Marine Fisheries
September 2016 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.

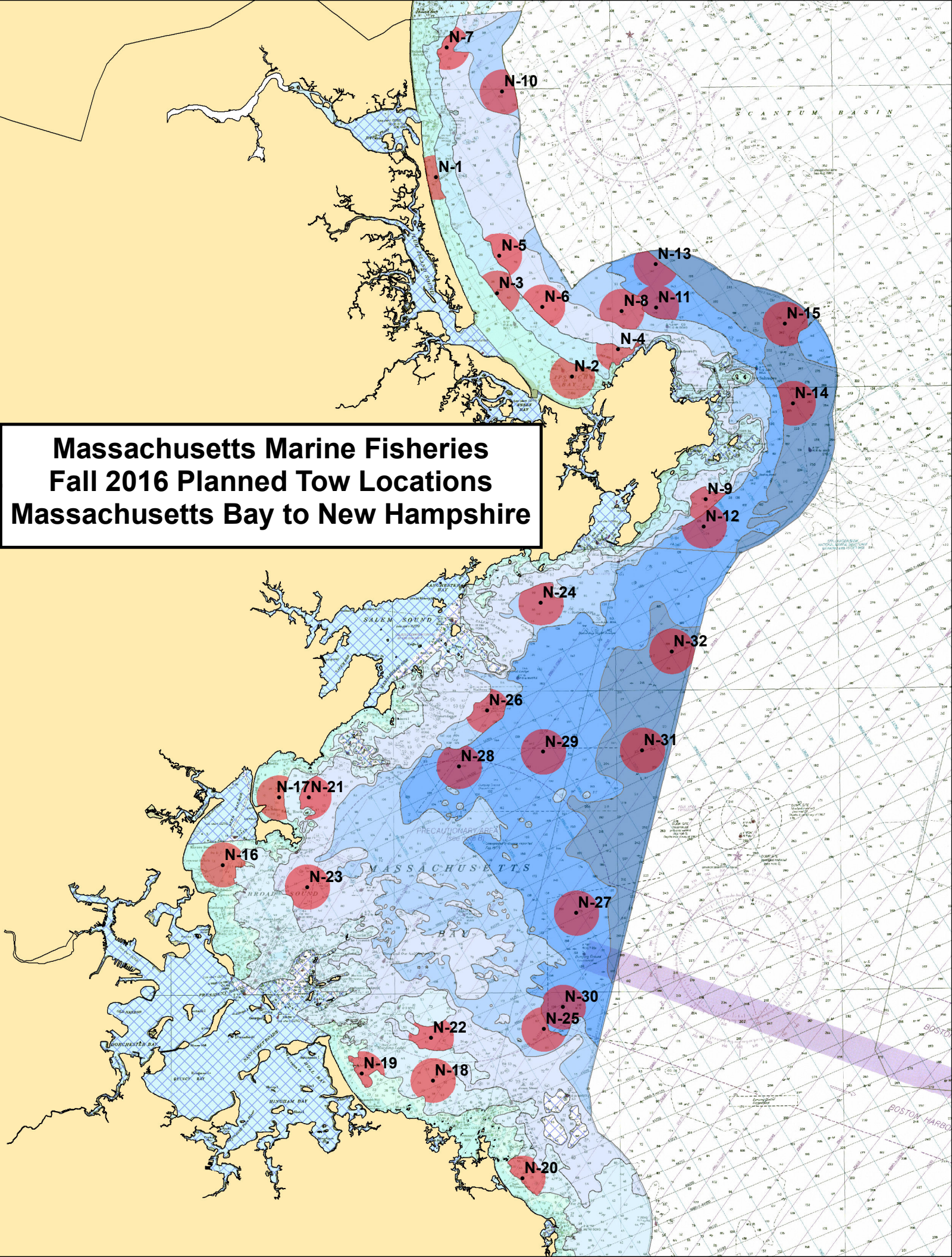
Area Description	Depth	Range of Dates	Latitude	Longitude	Loran	Sta. ID#
Western Cape Cod Bay	0-30'	September 8-10	42°08.50	-70°41.13	13975.0 / 44183.0	C-1
	0-30'	September 6-9	41°57.87	-70°36.77	13997.5 / 44112.2	C-2
	0-30'	September 6-9	41°44.55	-70°19.37	13952.5 / 44003.3	C-3
	31'-60'	September 6-9	41°50.90	-70°29.85	13986.7 / 44058.4	C-4
	31'-60'	September 6-9	41°46.47	-70°16.60	13927.5 / 44011.0	C-5
	31'-60'	September 6-9	41°46.03	-70°25.31	13981.0 / 44021.5	C-6
	31'-60'	September 6-9	41°58.29	-70°34.87	13984.0 / 44111.5	C-7
	61'-90'	September 6-9, 13-15	41°49.51	-70°26.29	13971.4 / 44044.3	C-8
	61'-90'	September 6-9	41°47.59	-70°20.98	13948.4 / 44024.5	C-9
	61'-90'	September 6-9	42°02.58	-70°34.41	13961.0 / 44136.3	C-10
	61'-90'	September 8-10	42°06.33	-70°34.49	13944.0 / 44158.8	C-11
	91'-120'	September 6-9, 13-15	41°51.90	-70°22.49	13937.9 / 44052.8	C-12
	91'-120'	September 6-9, 13-15	41°52.54	-70°19.01	13914.0 / 44051.5	C-13
	91'-120'	September 12-15	41°55.84	-70°19.46	13901.5 / 44071.8	C-14
	121'-180'	September 6-9, 13-15	41°56.41	-70°25.02	13932.5 / 44084.0	C-15
	121'-180'	September 6-9	42°03.93	-70°31.29	13935.5 / 44139.2	C-16
	121'-180'	September 6-9, 12-14	42°00.21	-70°22.69	13900.6 / 44103.0	C-17
Eastern Cape Cod Bay	0-30'	September 6-9	41°49.94	-70°09.91	13872.0 / 44022.0	C-18
	0-30'	September 6-9	41°49.65	-70°06.07	13851.0 / 44014.5	C-19
	31'-60'	September 13-15	42°01.39	-70°07.00	13801.2 / 44085.0	C-20
	31'-60'	September 13-15	41°54.06	-70°08.88	13847.3 / 44044.9	C-21
	31'-60'	September 13-15	41°56.27	-70°06.56	13823.0 / 44054.5	C-22
	61'-90'	September 13-15	41°57.95	-70°08.49	13826.2 / 44067.4	C-23
	61'-90'	September 6-9, 13-15	41°51.97	-70°11.78	13874.0 / 44037.0	C-24
	61'-90'	September 13-15	41°59.14	-70°09.40	13826.0 / 44075.7	C-25
	91'-120'	September 6-9, 13-15	41°52.36	-70°14.25	13886.7 / 44043.0	C-26
	91'-120'	September 13-15	41°57.16	-70°10.03	13839.1 / 44065.0	C-27
	91'-120'	September 12-15	41°56.47	-70°16.38	13880.2 / 44070.6	C-28
	121'-180'	September 6-9, 12-14	42°01.88	-70°23.38	13897.0 / 44114.0	C-29
	121'-180'	September 12-16	42°02.13	-70°17.85	13860.6 / 44106.0	C-30
	121'-180'	September 12-16	42°00.88	-70°16.13	13857.7 / 44096.2	C-31
	181'+	September 12-16	42°06.50	-70°18.15	13843.1 / 44132.5	C-32
181'+	September 12-16	42°05.76	-70°23.57	13879.6 / 44137.0	C-33	
181'+	September 12-16	42°06.25	-70°26.01	13892.1 / 44143.9	C-34	
East of Cape Cod	0-30'	September 14-16	42°05.19	-70°08.79	13793.4 / 44109.8	B-1
	0-30'	September 15-18	41°34.47	-69°57.69	13871.0 / 43910.1	B-2
	31'-60'	September 15-18	41°41.97	-69°54.11	13817.0 / 43950.8	B-3
	31'-60'	September 14-17	41°59.74	-69°59.67	13766.0 / 44064.4	B-4
	31'-60'	September 14-17	42°04.22	-70°05.10	13776.0 / 44098.5	B-5
	61'-90'	September 15-18	41°49.54	-69°54.96	13787.0 / 43997.8	B-6
	61'-90'	September 15-18	41°39.98	-69°51.91	13813.5 / 43935.7	B-7
	91'-120'	September 14-16	42°06.12	-70°10.40	13798.3 / 44117.8	B-8
	91'-120'	September 14-16	42°06.02	-70°06.92	13778.0 / 44111.7	B-9
	91'-120'	September 15-18	41°46.69	-69°52.61	13786.7 / 43977.3	B-10
	121'-180'	September 14-17	42°04.71	-70°01.97	13755.5 / 44096.5	B-11
	121'-180'	September 14-16	42°07.03	-70°14.09	13816.0 / 44129.0	B-12
	121'-180'	September 14-16	42°06.30	-70°10.93	13800.9 / 44119.5	B-13

Massachusetts Division of Marine Fisheries
September 2016 Fall Trawl Survey Station Locations
South of Cape Cod

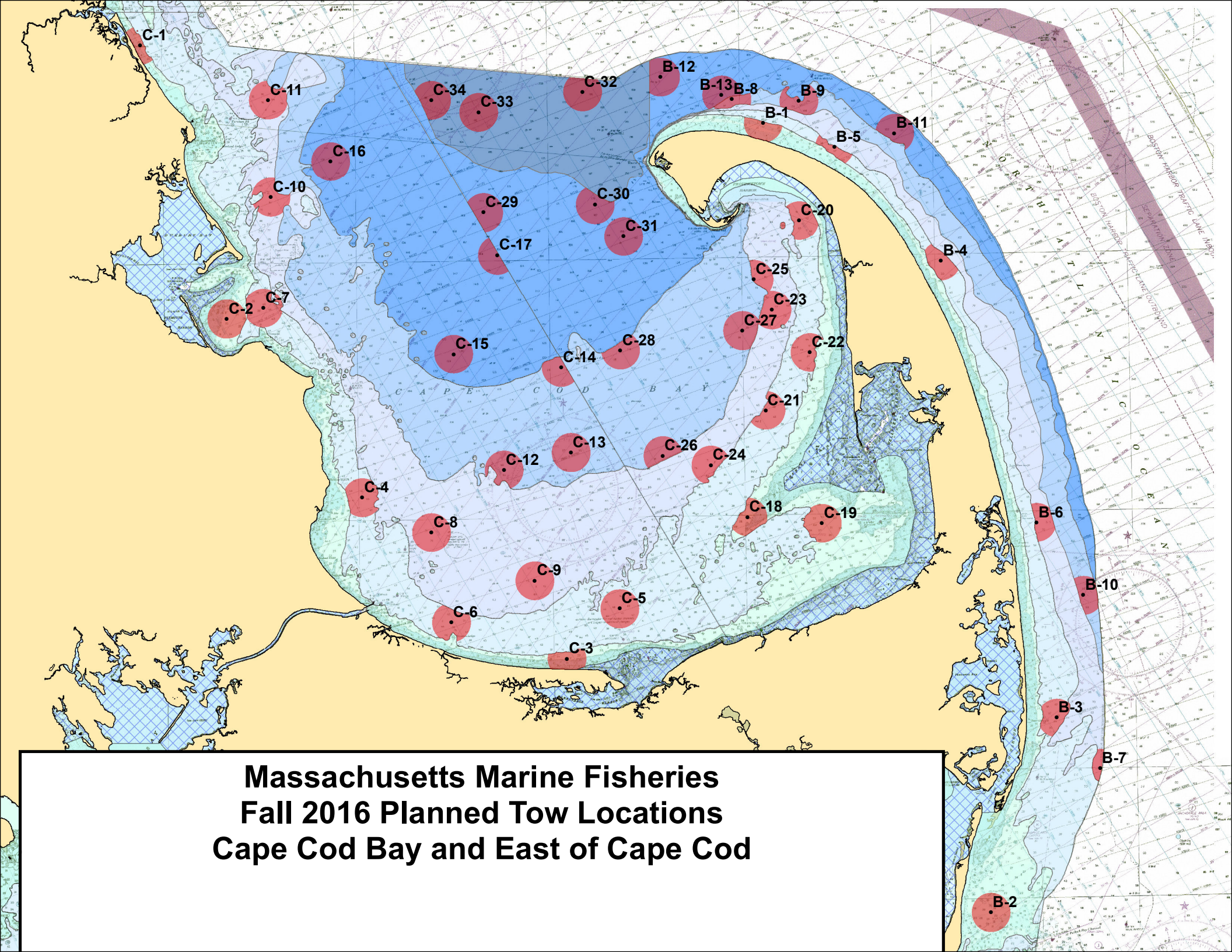
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Area Description	Depth	Range of Dates	Latitude	Longitude	Loran	Sta. ID#
Nantucket Sound	0-30'	September 17-24	41°28.37	-70°15.59	14000.0 / 43896.6	S-21
	0-30'	September 17-24	41°37.16	-70°01.71	13882.1 / 43932.3	S-22
	0-30'	September 17-24	41°19.03	-70°11.92	14017.6 / 43831.9	S-23
	0-30'	September 17-24	41°34.95	-70°02.42	13896.1 / 43919.5	S-24
	0-30'	September 17-24	41°30.85	-70°11.35	13965.2 / 43906.4	S-25
	0-30'	September 17-24	41°31.80	-70°19.28	14007.2 / 43923.2	S-26
	0-30'	September 17-24	41°26.11	-70°29.12	14088.0 / 43900.9	S-27
	0-30'	September 17-24	41°36.23	-70°10.70	13938.3 / 43938.8	S-28
	0-30'	September 17-24	41°37.04	-70°05.58	13905.3 / 43936.7	S-29
	0-30'	September 17-24	41°32.09	-70°35.29	14100.8 / 43948.4	S-30
	31'-60'	September 17-24	41°30.54	-70°27.35	14060.1 / 43926.9	S-31
	31'-60'	September 17-24	41°28.31	-70°05.22	13940.8 / 43882.2	S-32
	31'-60'	September 17-24	41°27.46	-70°19.27	14025.4 / 43895.8	S-33
	31'-60'	September 17-24	41°28.87	-70°25.81	14057.8 / 43914.1	S-34
	31'-60'	September 17-24	41°33.24	-70°06.97	13929.8 / 43915.4	S-35
	31'-60'	September 17-24	41°35.16	-70°03.82	13903.1 / 43922.7	S-36
	31'-60'	September 17-24	41°21.96	-70°06.33	13973.5 / 43843.7	S-37
	31'-60'	September 17-24	41°28.76	-70°14.09	13989.8 / 43897.0	S-38
	31'-60'	September 17-24	41°33.10	-70°15.26	13978.3 / 43926.0	S-39
	31'-60'	September 17-24	41°24.82	-70°15.98	14017.1 / 43874.8	S-40
31'-60'	September 17-24	41°33.61	-70°19.67	14001.8 / 43935.1	S-41	
Buzzards Bay and Vineyard Sound	0-30'	September 17-24	41°29.83	-71°03.43	14280.5 / 43975.3	S-1
	0-30'	September 17-24	41°34.39	-70°54.26	14205.9 / 43991.8	S-2
	0-30'	September 17-24	41°40.26	-70°42.31	14108.9 / 44011.5	S-3
	31'-60'	September 17-24	41°35.19	-70°46.76	14157.2 / 43985.3	S-4
	31'-60'	September 17-24	41°29.08	-70°59.99	14262.2 / 43965.1	S-5
	31'-60'	September 17-24	41°37.52	-70°43.94	14130.1 / 43996.2	S-6
	31'-60'	September 17-24	41°22.61	-70°45.90	14201.9 / 43901.0	S-7
	31'-60'	September 17-24	41°28.38	-71°05.49	14298.5 / 43968.9	S-8
	61'-90'	September 17-24	41°22.96	-71°01.73	14296.1 / 43926.7	S-9
	61'-90'	September 17-24	41°22.56	-70°52.91	14244.1 / 43911.0	S-10
	61'-90'	September 17-24	41°21.43	-70°58.62	14283.0 / 43911.5	S-11
	91'-120'	September 17-24	41°20.75	-70°56.45	14272.4 / 43903.7	S-12
91'-120'	September 17-24	41°23.92	-71°00.18	14283.0 / 43930.8	S-13	
Southwest of Gay Head and South of Martha's Vineyard	0-30'	September 17-24	41°20.49	-70°42.06	14187.0 / 43881.6	S-14
	0-30'	September 17-24	41°17.55	-70°29.17	14122.6 / 43844.8	S-15
	31'-60'	September 17-24	41°20.56	-70°36.41	14153.4 / 43874.4	S-16
	31'-60'	September 17-24	41°19.15	-70°35.60	14154.0 / 43864.1	S-17
	61'-90'	September 17-24	41°18.34	-70°42.12	14195.7 / 43867.3	S-18
	61'-90'	September 17-24	41°18.22	-70°33.13	14143.2 / 43854.3	S-19
	91'-120'	September 17-24	41°13.81	-70°45.05	14230.2 / 43840.7	S-20
South and East of Nantucket	0-30'	September 16-24	41°27.57	-70°00.44	13916.5 / 43871.3	S-42
	0-30'	September 16-24	41°24.21	-69°58.51	13919.9 / 43847.8	S-43
	0-30'	September 17-24	41°13.83	-70°07.10	14010.6 / 43792.5	S-44
	31'-60'	September 16-24	41°13.53	-70°04.15	13995.0 / 43786.8	S-45
	31'-60'	September 16-24	41°25.76	-69°57.82	13909.5 / 43856.6	S-46
	31'-60'	September 17-24	41°13.58	-70°08.14	14017.5 / 43791.8	S-47
	61'-90'	September 17-24	41°14.57	-70°16.53	14061.0 / 43808.7	S-48

**Massachusetts Marine Fisheries
Fall 2016 Planned Tow Locations
Massachusetts Bay to New Hampshire**



**Massachusetts Marine Fisheries
Fall 2016 Planned Tow Locations
Cape Cod Bay and East of Cape Cod**



Massachusetts Marine Fisheries Fall 2016 Planned Tow Locations South of Cape Cod

