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To Fixed-gear Fishermen of Massachusetts:

The Massachusetts Division of Marine Fisheries (*Marine Fisheries*) will be conducting a trawl survey throughout state coastal waters beginning September 6, 2011. We have been conducting these surveys each May and September since 1978 to provide a consistent sampling of benthic fishes and mobile invertebrates of Massachusetts coastal waters. Our survey data is used in a variety of important ways to determine the condition of fish stocks, to evaluate how construction activities affect fishing and the environment, and how best to manage fisheries and to protect fishery resources to name just a few. 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 from north of Cape Ann to east of Cape Cod. **We must 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.** While we will make every attempt to complete stations during the assigned period and 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.

In the event of a delay due to weather, we will resume our schedule 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. Station location information can also be accessed at our website (<http://www.mass.gov/dfwele/dmf/programsandprojects/resource.htm>).

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 at least once 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).

Sincerely,

Jeremy King
Senior Marine Fisheries Biologist

Cc. Paul Diodati, Director

**Massachusetts Division of Marine Fisheries September 2011 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	General Description	Depth	Range of Dates	Latitude	Longitude	Loran	Sta. ID#
Cape Ann and North	NW of Ipswich Bay	0 to 30	September 10 - 13	70° 43.25	42° 40.79	13826.2 / 44368.2	N1
	Plum Island Beach	0 to 30	September 10 - 13	70° 48.23	42° 47.74	13821.4 / 44414.1	N2
	East of Plum Island	31 to 60	September 10 - 13	70° 45.26	42° 43.75	13823.5 / 44387.9	N8
	NW of Ipswich Bay	31 to 60	September 10 - 13	70° 43.14	42° 41.93	13819.8 / 44374.0	N9
	East of Merrimack River mouth	61 to 90	September 10 - 13	70° 46.47	42° 49.68	13799.2 / 44420.8	N10
	East of Plum Island	61 to 90	September 10 - 13	70° 44.27	42° 44.26	13814.1 / 44388.7	N11
	East of Plum Island	61 to 90	September 10 - 13	70° 45.44	42° 46.28	13811.0 / 44401.3	N12
	North of Thatcher Island	91 to 120	September 10 - 13	70° 34.24	42° 39.35	13776.0 / 44343.5	N13
	NW of Halibut Point	91 to 120	September 10 - 13	70° 39.51	42° 42.77	13791.5 / 44371.5	N14
	North of Halibut Point	121 to 180	September 10 - 13	70° 37.64	42° 43.97	13773.0 / 44374.4	N3
	East of Gloucester	121 to 180	September 10 - 13	70° 34.87	42° 35.35	13801.4 / 44323.5	N4
	NE of Halibut Point	121 to 180	September 10 - 13	70° 35.64	42° 42.22	13769.9 / 44361.2	N5
	NE of Dry Salvages	181 +	September 10 - 13	70° 32.43	42° 42.88	13745.5 / 44358.9	N6
	NE of Halibut Point	181 +	September 10 - 13	70° 35.80	42° 43.18	13765.4 / 44366.8	N7
Massachusetts Bay	Nantasket Beach	0 to 30	September 8 - 10	70° 51.46	42° 16.87	14001.0 / 44250.5	N15
	South of Nahant	0 to 30	September 9 - 11	70° 57.47	42° 24.77	14001.0 / 44307.1	N16
	Nantasket Beach	31 to 60	September 8 - 10	70° 51.44	42° 17.24	13998.9 / 44252.6	N23
	South of Nahant	31 to 60	September 9 - 11	70° 56.17	42° 24.61	13993.3 / 44303.8	N24
	East of Nantasket Beach	31 to 60	September 8 - 10	70° 48.82	42° 16.94	13983.6 / 44246.1	N25
	Broad Sound	61 to 90	September 9 - 11	70° 54.11	42° 23.67	13984.5 / 44294.5	N26
	East of Nahant Bay	61 to 90	September 9 - 11	70° 52.54	42° 26.90	13958.0 / 44309.8	N27
	East of Harding Ledge	61 to 90	September 8 - 11	70° 48.28	42° 18.61	13971.9 / 44254.9	N28
	East of Nahant Bay	91 to 120	September 9 - 11	70° 50.84	42° 26.37	13950.0 / 44303.5	N29
	East of Salem Sound	91 to 120	September 9 - 14	70° 43.33	42° 32.83	13868.9 / 44325.0	N30
	NE of the Graves	91 to 120	September 9 - 11	70° 48.99	42° 23.06	13954.7 / 44281.6	N31
	East of Great Pig Rocks	121 to 180	September 9 - 11	70° 48.12	42° 27.02	13929.1 / 44302.0	N17
	East of Saturday Night Ledge	121 to 180	September 9 - 14	70° 36.81	42° 32.52	13828.6 / 44311.2	N18
	North of Dumping Ground	121 to 180	September 9 - 11	70° 41.93	42° 22.23	13913.7 / 44263.8	N19
	SE of Halfway Rock	121 to 180	September 9 - 11	70° 44.75	42° 29.08	13897.0 / 44307.1	N20
Outer Mass Bay	181 +	September 9 - 14	70° 39.47	42° 25.18	13883.2 / 44276.0	N21	
SE of Saturday Night Ledge	181 +	September 9 - 14	70° 38.09	42° 30.35	13847.9 / 44302.0	N22	

Massachusetts Division of Marine Fisheries September 2011 Fall Trawl Survey

* Loran coordinates taken from NOAA paper charts.

Station Locations Cape Cod Bay

Please refer to Lat/Long for best accuracy.

Area Description	General Description	Depth	Range of Dates	Latitude	Longitude	Loran	Sta. ID#
Western Cape Cod Bay	Duxbury Beach	0 to 30	September 6 - 10	70° 36.43	42° 01.26	13979.8 / 44131.8	C1
	North of Barnstable Harbor	0 to 30	September 6 - 9	70° 16.77	41° 44.98	13935.0 / 44001.9	C2
	Plymouth Bay	0 to 30	September 6 - 10	70° 36.97	41° 57.99	13998.0 / 44112.9	C3
	East of Cape Cod Canal	31 to 60	September 6 - 9	70° 27.93	41° 47.88	13988.5 / 44036.4	C7
	North of Barnstable	31 to 60	September 6 - 9	70° 20.53	41° 46.06	13952.4 / 44014.0	C8
	East of Cape Cod Canal	31 to 60	September 6 - 9	70° 26.53	41° 46.53	13986.2 / 44026.2	C9
	East of Humarock	31 to 60	September 8 - 10	70° 40.94	42° 08.93	13972.2 / 44185.0	C10
	East of Cape Cod Canal	61 to 90	September 6 - 9	70° 23.97	41° 48.90	13960.0 / 44036.7	C11
	East of Center Hill Point	61 to 90	September 6 - 9	70° 24.20	41° 51.78	13948.5 / 44054.6	C12
	North of Barnstable Harbor	61 to 90	September 6 - 9	70° 18.43	41° 47.89	13931.7 / 44022.2	C13
	North of Barnstable Harbor	61 to 90	September 6 - 9	70° 17.51	41° 49.80	13917.8 / 44032.5	C14
	SW of Fishing Ledge	91 to 120	September 12 - 15	70° 21.03	41° 54.70	13916.1 / 44067.3	C15
	East of Manomet Point	91 to 120	September 6 - 10	70° 29.40	41° 56.58	13958.1 / 44091.9	C16
	East of Manomet Point	91 to 120	September 6 - 10	70° 27.43	41° 56.20	13948.0 / 44086.6	C17
	Outer Cape Cod Bay	121 to 180	September 12 - 15	70° 26.51	42° 04.52	13904.0 / 44134.8	C4
	East of Duxbury Beach	121 to 180	September 8 - 10, 12 - 14	70° 31.08	42° 04.62	13931.5 / 44142.9	C5
	Middle of Cape Cod Bay	121 to 180	September 8 - 10, 12 - 14	70° 24.60	41° 59.34	13916.5 / 44100.7	C6
Eastern Cape Cod Bay	South of Billingsgate Shoal	0 to 30	September 6 - 9	70° 05.27	41° 49.45	13847.3 / 44011.8	C18
	West of Billingsgate Shoal	0 to 30	September 6 - 9	70° 09.81	41° 50.52	13868.9 / 44025.0	C19
	South of Billingsgate Shoal	31 to 60	September 6 - 9	70° 08.20	41° 49.33	13865.0 / 44015.5	C26
	West of Wellfleet	31 to 60	September 13-15	70° 06.79	41° 56.08	13825.0 / 44053.6	C27
	West of Billingsgate Shoal	31 to 60	September 6 - 9, 13-15	70° 10.69	41° 50.94	13871.7 / 44029.0	C28
	NW of Billingsgate Shoal	61 to 90	September 13-15	70° 10.51	41° 54.00	13856.9 / 44047.0	C29
	West of Billingsgate Shoal	61 to 90	September 6 - 9, 13-15	70° 15.48	41° 51.65	13897.0 / 44040.5	C30
	West of Billingsgate Shoal	61 to 90	September 6 - 9, 13-15	70° 13.34	41° 50.81	13888.2 / 44032.3	C31
	SE of Fishing Ledge	91 to 120	September 13 - 15	70° 15.72	41° 53.64	13889.4 / 44052.6	C32
	South of Fishing Ledge	91 to 120	September 12 - 15	70° 17.75	41° 54.01	13899.8 / 44058.0	C33
	NW of Billingsgate Shoal	91 to 120	September 13-15	70° 14.39	41° 52.77	13885.4 / 44045.3	C34
	North of Fishing Ledge	121 to 180	September 12 - 15	70° 17.78	41° 57.71	13882.7 / 44080.0	C20
	North of Fishing Ledge	121 to 180	September 12 - 15	70° 18.18	42° 00.44	13872.2 / 44096.9	C21
	South of Race Point	121 to 180	September 12 - 16	70° 14.78	42° 02.50	13842.5 / 44103.4	C22
	West of Race Point	181 +	September 12 - 16	70° 17.89	42° 03.60	13856.2 / 44115.0	C23
	NW of Race Point	181 +	September 12 - 16	70° 18.18	42° 06.57	13843.5 / 44132.7	C24
	Outer Cape Cod Bay	181 +	September 12 - 15	70° 25.81	42° 07.42	13885.8 / 44150.2	C25

Massachusetts Division of Marine Fisheries September 2011 Fall Trawl Survey

Station Locations East of Cape Cod

* Loran coordinates taken from NOAA paper charts.

Please refer to Lat/Long for best accuracy.

Area Description	General Description	Depth	Range of Dates	Latitude	Longitude	Loran	Sta. ID#
East of Cape Cod	Peaked Hill Bar	0 to 30	September 13 - 16	70° 10.51	42° 05.36	13803.2 / 44113.4	E1
	East of Wellfleet	0 to 30	September 14 - 17	69° 57.56	41° 54.43	13779.0 / 44030.0	E2
	East of Nauset	31 to 60	September 15 - 17	69° 54.89	41° 47.50	13796.0 / 43985.0	E6
	East of Pleasant Bay	31 to 60	September 15 - 17	69° 54.79	41° 44.52	13809.1 / 44967.2	E7
	Peaked Hill Bar	31 to 60	September 13 - 16	70° 08.56	42° 05.29	13791.9 / 44110.0	E8
	East of Wellfleet	61 to 90	September 14 - 17	69° 56.25	41° 53.96	13773.4 / 44025.4	E9
	North of Peaked Hill Bar	61 to 90	September 13 - 16	70° 09.97	42° 05.78	13797.9 / 44114.9	E10
	North of Peaked Hill Bar	91 to 120	September 13 - 16	70° 10.51	42° 06.07	13800.0 / 44117.4	E11
	NE of Highlands	91 to 120	September 14 - 17	70° 01.65	42° 03.95	13757.0 / 44091.3	E12
	East of Nauset	91 to 120	September 15 - 17	69° 53.22	41° 48.14	13783.4 / 43986.5	E13
	NE of Race Point	121 to 180	September 13 - 16	70° 10.76	42° 07.53	13794.0 / 44126.3	E3
	NE of Highlands	121 to 180	September 14 - 17	70° 01.00	42° 04.38	13751.0 / 44092.8	E4
	East of Nauset	121 to 180	September 15 - 17	69° 52.48	41° 49.22	13774.3 / 43991.9	E5



