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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 May 3, 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 May 2011 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	General Description	Depth	Range of Dates	Latitude	Longitude	Loran	Sta. ID#
Cape Ann and North	E of Salisbury Beach	0 to 30	May 7 - 9	42°50.17	-70°48.46	13809.8 \ 44427.3	N1
	Mouth of Parker River	0 to 30	May 7 - 9	42°42.38	-70°44.83	13828.0 \ 44379.8	N2
	E of Plum Island	31 to 60	May 7 - 9	42°45.08	-70°45.89	13820.4 \ 44395.9	N3
	Mouth of Parker River	31 to 60	May 7 - 9	42°42.72	-70°44.60	13825.0 \ 44381.0	N4
	E of Plum Island	61 to 90	May 7 - 9	42°44.26	-70°44.27	13814.2 \ 44388.7	N5
	N of Ipswich Bay	61 to 90	May 7 - 9	42°43.11	-70°42.69	13810.2 \ 44379.5	N6
	E of Plum Island	61 to 90	May 7 - 9	42°46.84	-70°45.75	13810.0 \ 44404.8	N7
	Salisbury Beach	91 to 120	May 7 - 9	42°50.52	-70°45.05	13785.4 \ 44422.4	N8
	N of Thacher Island	91 to 120	May 7 - 9	42°39.35	-70°34.24	13776.1 \ 44343.6	N9
	NW of Halibut Point	91 to 120	May 7 - 9	42°42.99	-70°39.79	13792.0 \ 44373.2	N10
	NE of Halibut Point	121 to 180	May 7 - 9	42°42.07	-70°35.50	13769.6 \ 44360.3	N11
	S of Thacher Island	121 to 180	May 7 - 9	42°35.73	-70°34.46	13796.8 \ 44324.8	N12
	N of Halibut Point	121 to 180	May 7 - 9	42°43.51	-70°37.54	13774.9 \ 44371.8	N13
	NE of Dry Salvages	180 +	May 7 - 9	42°42.28	-70°32.39	13748.7 \ 44355.7	N14
SE of Thacher Island	181 +	May 7 - 9	42°36.14	-70°32.78	13784.1 \ 44323.9	N15	
Massachusetts Bay	Nantasket Beach	0 to 30	May 5 - 8	42°17.14	-70°51.70	14001.0 \ 44252.5	N16
	Nahant Bay	0 to 30	May 6 - 8	42°26.86	-70°55.62	13978.5 \ 44315.5	N17
	Cowen Rocks	31 to 60	May 5 - 7	42°13.94	-70°44.35	13969.4 \ 44220.4	N18
	S of Harding Ledge	31 to 60	May 5 - 8	42°17.78	-70°51.28	13995.4 \ 44255.6	N19
	NE of Black Rocks	31 to 60	May 5 - 8	42°17.04	-70°48.44	13980.7 \ 44245.9	N20
	Broad Sound	61 to 90	May 6 - 8	42°23.75	-70°54.03	13983.6 \ 44294.8	N21
	E of Harding Ledge	61 to 90	May 5 - 8	42°18.55	-70°48.35	13972.9 \ 44254.5	N22
	E of Nahant Bay	61 to 90	May 6 - 8	42°26.76	-70°52.92	13961.5 \ 44309.6	N23
	Middle Ground	91 to 120	May 6 - 8	42°32.86	-70°43.50	13869.9 \ 44326.0	N24
	SE of Salem Sound	91 to 120	May 6 - 8	42°28.75	-70°46.06	13907.0 \ 44308.0	N25
	NE of Strawberry Point	91 to 120	May 5 - 8	42°18.63	-70°43.22	13939.8 \ 44245.7	N26
	SE of Salem Sound	121 to 180	May 6 - 11	42°28.08	-70°43.66	13904.9 \ 44299.7	N27
	SE of Eastern Point	121 to 180	May 6 - 8	42°33.87	-70°36.16	13817.1 \ 44317.3	N28
	SE of Salem Sound	121 to 180	May 6 - 11	42°26.61	-70°43.29	13900.4 \ 44291.0	N29
	Outer Mass Bay	180 +	May 6 - 11	42°24.97	-70°39.32	13883.2 \ 44274.5	N30
SE of Eastern Point	181 +	May 6 - 11	42°31.96	-70°37.57	13836.3 \ 44309.8	N31	

Massachusetts Division of Marine Fisheries May 2011 Spring Trawl Survey
 Station Locations Cape Cod Bay

* 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#
Western Cape Cod Bay	Duxbury Beach	0 to 30	May 3 - 7	42°02.61	-70°37.77	13982.0	\ 44142.1	C1
	Center Hill Point	0 to 30	May 3 - 7	41°50.66	-70°31.05	13995.2	\ 44058.7	C2
	Plymouth Bay	0 to 30	May 3 - 7	41°58.18	-70°36.08	13991.9	\ 44112.9	C3
	E of Sagamore Beach	31 to 60	May 3 - 6, 10 - 12	41°49.28	-70°27.87	13982.0	\ 44045.1	C4
	N of Barnstable Harbor	31 to 60	May 3 - 6, 10 - 12	41°46.88	-70°19.27	13941.4	\ 44017.3	C5
	N of Barnstable Harbor	31 to 60	May 3 - 6, 10 - 12	41°47.77	-70°14.35	13908.0	\ 44015.3	C6
	E of Sagamore Beach	61 to 90	May 3 - 6, 10 - 12	41°49.54	-70°22.83	13950.8	\ 44038.9	C7
	NE of Manomet Point	61 to 90	May 3 - 6	41°57.06	-70°31.74	13970.2	\ 44098.8	C8
	E of Center Hill Point	61 to 90	May 3 - 6, 10 - 12	41°50.75	-70°24.99	13958.0	\ 44049.7	C9
	SE of Manomet Point	91 to 120	May 3 - 6, 9 - 12	41°53.70	-70°25.37	13947.0	\ 44068.2	C10
	Middle of CCB	91 to 120	May 9 - 12	41°54.00	-70°22.23	13926.8	\ 44065.0	C11
	Middle of CCB	91 to 120	May 10 - 12	41°52.20	-70°20.79	13925.9	\ 44051.8	C12
	Outer CCB	121 to 180	May 9 - 12	42°01.07	-70°27.53	13926.0	\ 44115.9	C13
	E of Brant Rock	121 to 180	May 5 - 7, 9 - 12	42°04.90	-70°31.69	13933.6	\ 44145.7	C14
	Middle of CCB	121 to 180	May 9 - 12	41°55.87	-70°23.35	13924.5	\ 44078.1	C15
Eastern Cape Cod Bay	Billingsgate Shoal	0 to 30	May 3 - 6, 10 - 12	41°50.60	-70°09.63	13867.3	\ 44025.2	c16
	S of Billingsgate	0 to 30	May 3 - 6, 10 - 12	41°46.85	-70°08.00	13875.0	\ 44000.2	c17
	N of Billingsgate	31 to 60	May 3 - 6, 10 - 12	41°53.47	-70°08.15	13845.5	\ 44040.1	c18
	S of Billingsgate	31 to 60	May 3 - 6, 10 - 12	41°46.62	-70°10.05	13888.1	\ 44002.0	c19
	SE of Wood End	61 to 90	May 10 - 13	42°00.94	-70°09.10	13815.5	\ 44085.5	c20
	W of Billingsgate	61 to 90	May 3 - 6, 10 - 12	41°50.46	-70°14.12	13894.8	\ 44031.2	c21
	NW of Billingsgate	91 to 120	May 10 - 12	41°55.54	-70°11.77	13857.0	\ 44058.0	c22
	Middle of CCB	91 to 120	May 10 - 12	41°55.43	-70°15.80	13881.8	\ 44063.7	c23
	Middle of CCB	121 to 180	May 9 - 12	41°57.30	-70°19.29	13894.0	\ 44080.0	c24
	Middle of CCB	121 to 180	May 9 - 12	41°58.70	-70°21.22	13898.9	\ 44091.3	c25
	Outer CCB	180 +	May 9 - 13	42°04.73	-70°22.26	13877.0	\ 44128.9	c26
	NW of Race Point	180 +	May 11 - 13	42°05.12	-70°15.61	13835.2	\ 44120.0	c27
	Outer CCB	180 +	May 9 - 13	42°04.97	-70°24.28	13888.5	\ 44133.5	c28

Massachusetts Division of Marine Fisheries May 2011 Spring 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	E of Wellfleet	0 to 30	May 11 - 14	41°55.40	-69°58.23	13778.4 \ 44036.8	E1
	N of Highland Light	0 to 30	May 11 - 14	42°03.00	-70°03.73	13774.7 \ 44089.6	E2
	E of Pleasant Bay	31 to 60	May 11 - 14	41°43.38	-69°53.60	13807.4 \ 43958.8	E3
	E of Highland Light	31 to 60	May 11 - 14	42°02.05	-70°01.93	13768.0 \ 44081.0	E4
	E of Wellfleet	31 to 60	May 11 - 14	41°55.33	-69°57.54	13774.9 \ 44035.3	E5
	SE of Wellfleet	61 to 90	May 11 - 14	41°53.61	-69°56.10	13774.5 \ 44023.2	E6
	E of Pleasant Bay	61 to 90	May 11 - 14	41°42.21	-69°53.05	13809.5 \ 43950.6	E7
	E of Highland Light	91 to 120	May 11 - 14	42°03.46	-70°01.27	13757.2 \ 44088.0	E8
	E of Pleasant Bay	91 to 120	May 11 - 14	41°45.77	-69°52.04	13788.0 \ 43970.9	E9
	E of Nauset Harbor	91 to 120	May 11 - 14	41°49.92	-69°53.53	13777.0 \ 43997.8	E10
	E of Highland Light	121 to 180	May 11 - 14	42°04.29	-70°00.90	13751.0 \ 44092.2	E11
	N of Provincetown	121 to 180	May 11 - 13	42°05.68	-70°12.60	13814.4 \ 44118.5	E12
	E of Nauset Harbor	121 to 180	May 11 - 14	41°50.21	-69°52.63	13770.5 \ 43998.0	E13

**Massachusetts Marine Fisheries
2011 Spring Trawl Survey
Planned Tow Locations
Mass Bay to New Hampshire**



