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Division of Marine Fisheries

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Secretary

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Commissioner

March 27, 2014

To Fixed Gear Fishermen of Massachusetts:

Marine Fisheries will conduct a trawl survey throughout state coastal waters beginning May 5, 2014. 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 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 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.

Daily survey station accomplishment will be updated and posted on the *Marine Fisheries* website (<http://www.mass.gov/dmf/trawlsurvey>) and on Twitter (handle: @MassDMF). 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).

If you have any questions about the survey, please contact me (jeremy.king@state.ma.us, (508) 990-2860 x 112). 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).

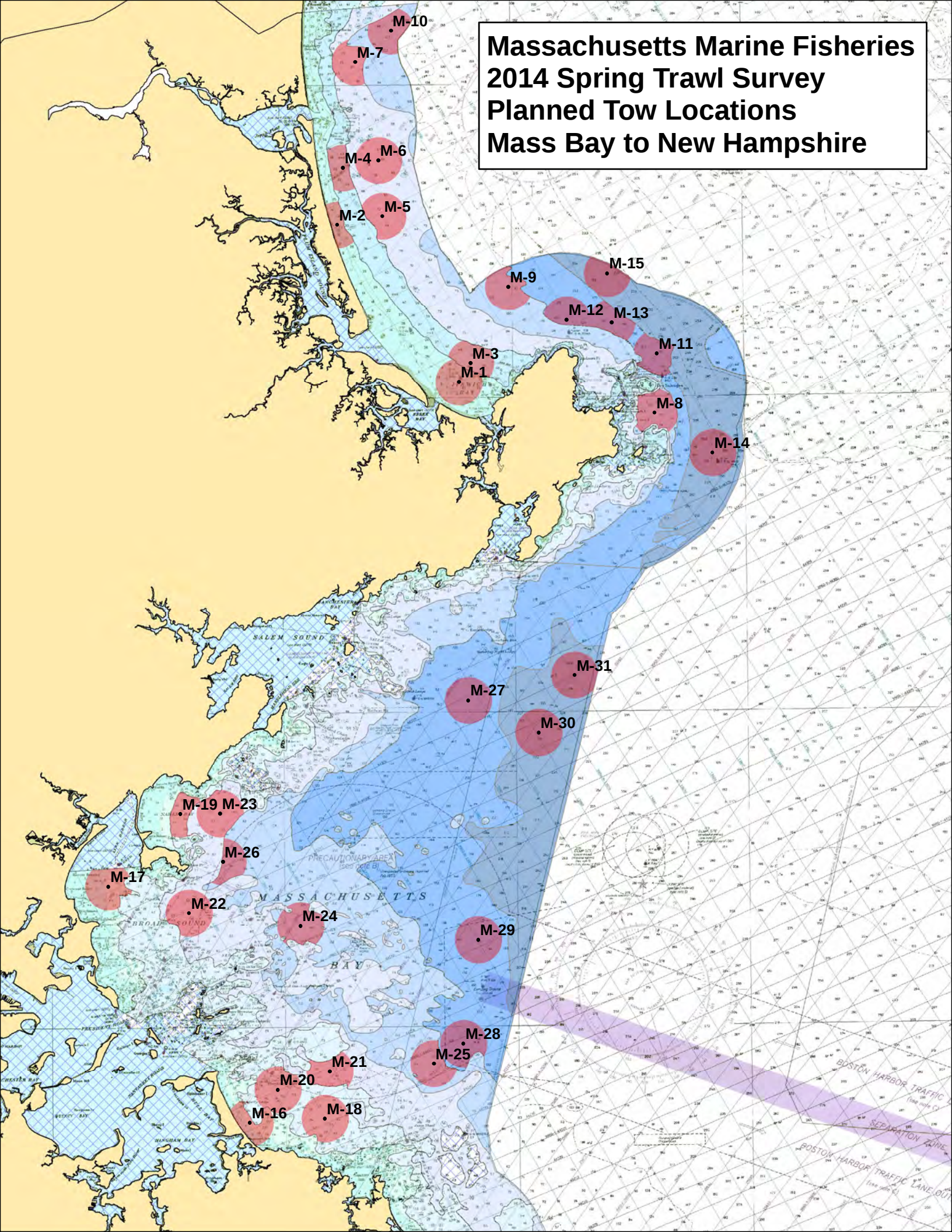
Sincerely,

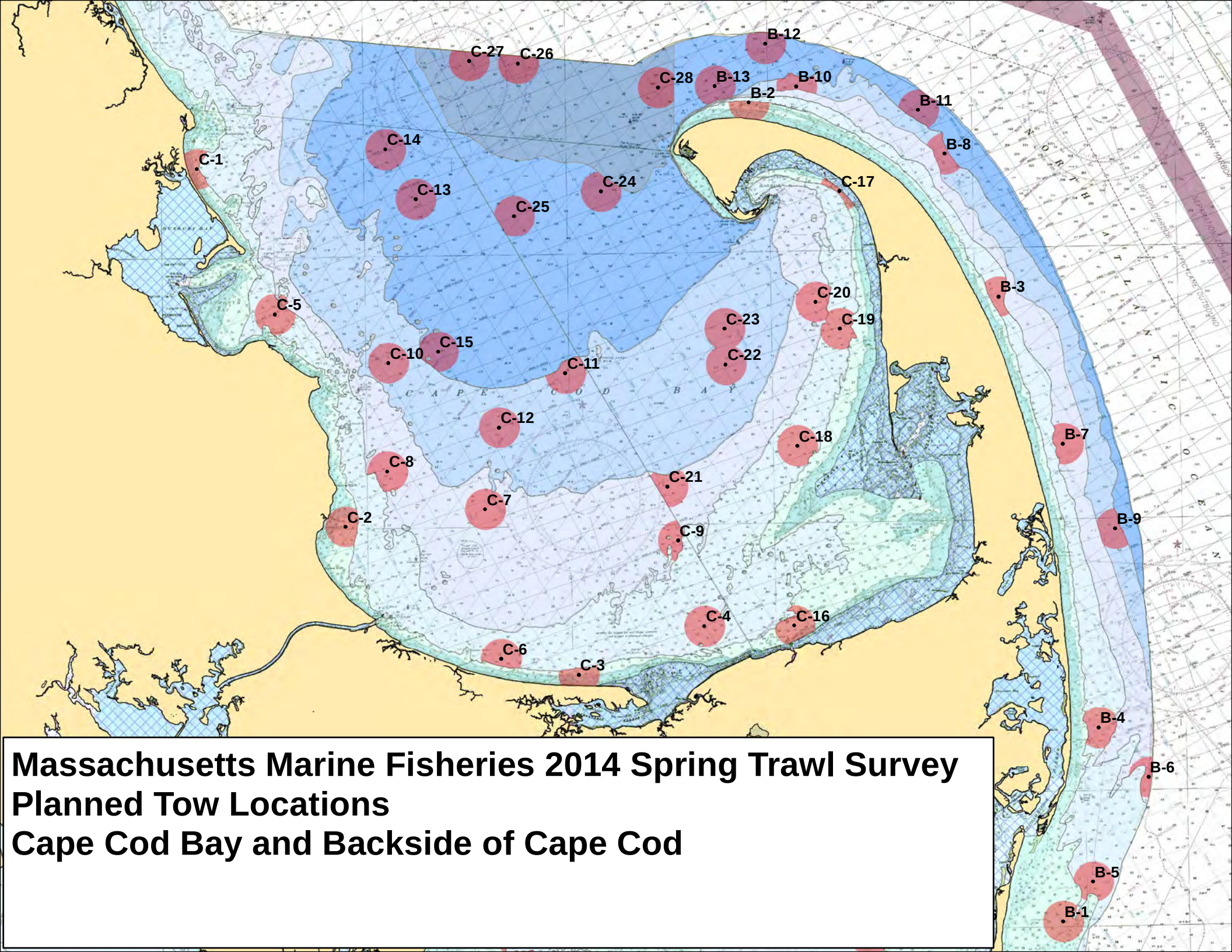
Jeremy King

Senior Marine Fisheries Biologist

Cc. Paul Diodati, Director

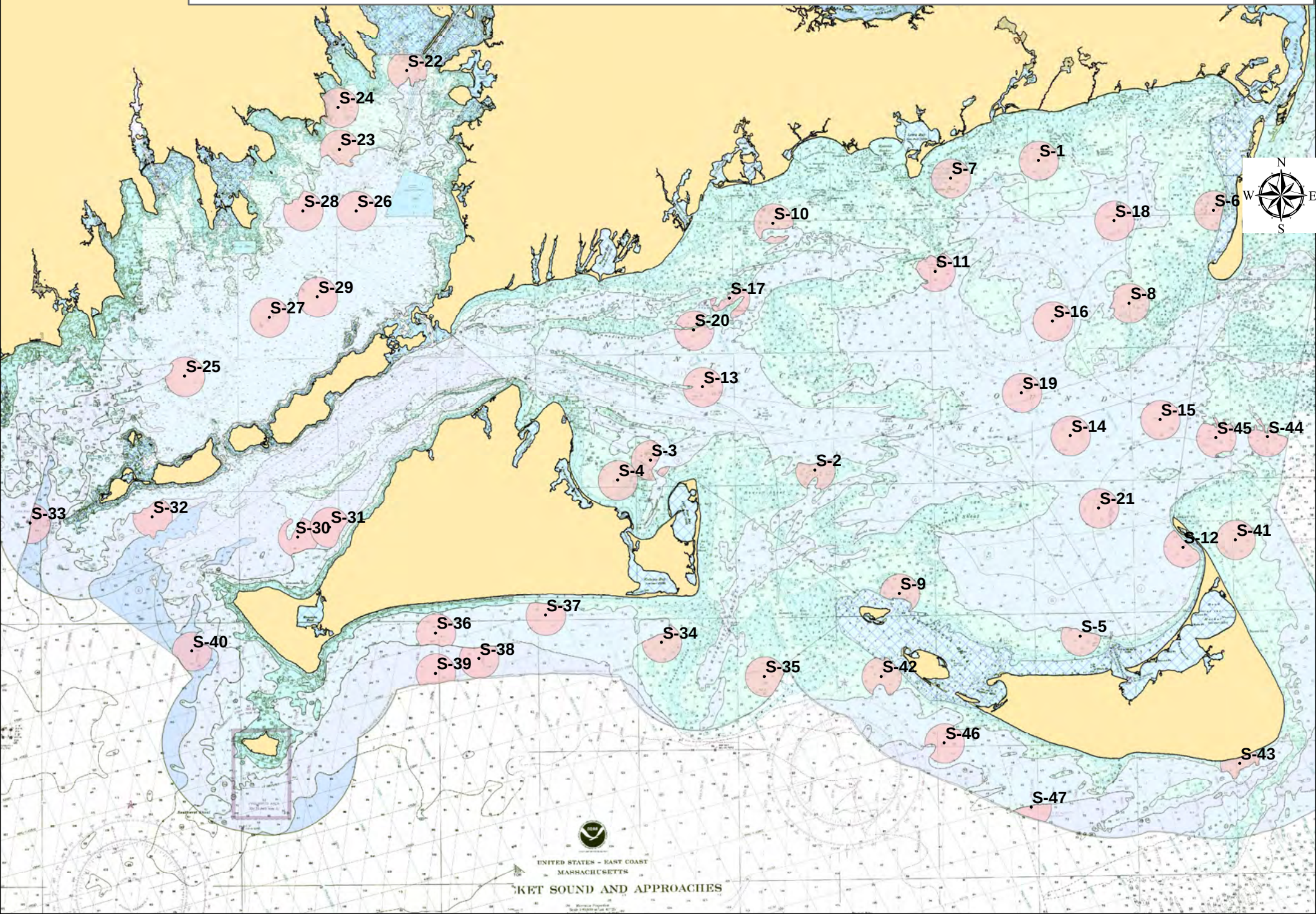
Massachusetts Marine Fisheries 2014 Spring Trawl Survey Planned Tow Locations Mass Bay to New Hampshire





**Massachusetts Marine Fisheries 2014 Spring Trawl Survey
Planned Tow Locations
Cape Cod Bay and Backside of Cape Cod**

Massachusetts Marine Fisheries 2014 Spring Trawl Survey Planned Tow Locations South of Cape Cod



Massachusetts Division of Marine Fisheries
May 2014 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 to 30	May 9-12	70°42.3175	42°40.5060	13821.9 / 44365.0	M-1
	0 to 30	May 9-12	70°47.5019	42°45.5434	13828.6 / 44401.5	M-2
	31 to 60	May 9-12	70°41.8094	42°41.1108	13815.2 / 44367.2	M-3
	31 to 60	May 9-12	70°47.2454	42°47.3657	13817.0 / 44410.4	M-4
	61 to 90	May 9-12	70°45.5491	42°45.8105	13814.2 / 44399.2	M-5
	61 to 90	May 9-12	70°45.7073	42°47.5912	13805.7 / 44408.6	M-6
	61 to 90	May 9-12	70°46.6783	42°50.7258	13795.0 / 44426.6	M-7
	91 to 120	May 9-12	70°33.8824	42°39.4721	13773.1 / 44343.7	M-8
	91 to 120	May 9-12	70°40.1388	42°43.5241	13791.5 / 44376.7	M-9
	91 to 120	May 9-12	70°45.1163	42°51.7087	13779.3 / 44428.6	M-10
	121 to 180	May 9-12	70°33.7582	42°41.3572	13762.2 / 44353.2	M-11
	121 to 180	May 9-12	70°37.6457	42°42.4566	13781.1 / 44366.3	M-12
	121 to 180	May 9-12	70°35.6921	42°42.3572	13769.2 / 44362.1	M-13
	181+	May 9-12	70°31.3989	42°38.1756	13764.3 / 44332.1	M-14
	181+	May 9-12	70°35.8623	42°43.9244	13761.8 / 44370.7	M-15
Massachusetts Bay	0 to 30	May 7-10	70°51.5686	42°16.9736	14001.1 / 44251.2	M-16
	0 to 30	May 8-10	70°57.5735	42°24.5183	14002.9 / 44305.8	M-17
	31 to 60	May 7-10	70°48.3479	42°17.0840	13979.9 / 44246.0	M-18
	31 to 60	May 8-10	70°54.4639	42°26.8253	13971.1 / 44312.6	M-19
	31 to 60	May 7-10	70°50.3650	42°18.0178	13988.3 / 44255.1	M-20
	61 to 90	May 7-10	70°48.1284	42°18.5810	13971.2 / 44254.3	M-21
	61 to 90	May 8-10	70°54.1247	42°23.6611	13984.8 / 44294.4	M-22
	61 to 90	May 8-10	70°52.7594	42°26.8201	13960.0 / 44309.5	M-23
	91 to 120	May 8-10	70°49.3378	42°23.2331	13956.0 / 44283.1	M-24
	91 to 120	May 7-10	70°43.6627	42°18.8066	13941.8 / 44247.5	M-25
	91 to 120	May 8-10	70°52.6508	42°25.2883	13967.0 / 44300.8	M-26
	121 to 180	May 8-13	70°42.0362	42°30.3678	13873.0 / 44309.3	M-27
	121 to 180	May 7-10	70°42.3786	42°19.4326	13930.5 / 44248.8	M-28
	121 to 180	May 8-13	70°41.7069	42°22.7412	13909.7 / 44266.2	M-29
	181+	May 8-13	70°39.0228	42°29.3197	13859.3 / 44297.9	M-30
	181+	May 8-13	70°37.4467	42°31.1378	13839.8 / 44305.0	M-31

Massachusetts Division of Marine Fisheries
May 2014 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 to 30	May 7-9	70°38.2167	42°03.2939	13981.2 / 44147.0	C-1
	0 to 30	May 5-9	70°31.0950	41°50.0928	13997.9 / 44055.1	C-2
	0 to 30	May 5-8	70°19.7443	41°44.5422	13954.5 / 44003.6	C-3
	31 to 60	May 5-8	70°13.5449	41°46.2711	13910.1 / 44005.0	C-4
	31 to 60	May 5-9	70°34.4572	41°57.9271	13983.0 / 44108.4	C-5
	31 to 60	May 5-8	70°23.5438	41°45.1752	13974.2 / 44013.3	C-6
	61 to 90	May 5-8, 12-14	70°24.2311	41°50.6733	13953.7 / 44048.0	C-7
	61 to 90	May 5-9	70°29.0117	41°52.1070	13976.2 / 44064.2	C-8
	61 to 90	May 5-8, 12-14	70°14.7740	41°49.4321	13903.1 / 44026.0	C-9
	91 to 120	May 5-9, 11-13	70°28.9040	41°56.0950	13957.4 / 44088.4	C-10
	91 to 120	May 5-8, 11-14	70°20.2055	41°55.6362	13906.9 / 44071.6	C-11
	91 to 120	May 5-8, 11-14	70°23.4956	41°53.6725	13935.8 / 44065.0	C-12
	121 to 180	May 7-9, 11-13	70°27.4570	42°02.1036	13920.6 / 44121.9	C-13
	121 to 180	May 7-9, 11-13	70°28.9220	42°03.9408	13920.9 / 44135.2	C-14
	121 to 180	May 5-8, 11-13	70°26.4476	41°56.4881	13940.7 / 44086.7	C-15
Eastern Cape Cod Bay	0 to 30	May 5-8	70°09.1205	41°46.2384	13884.4 / 44998.3	C-16
	0 to 30	May 12-14	70°06.5681	42°02.1896	13794.5 / 44089.0	C-17
	31 to 60	May 12-14	70°08.8442	41°52.8402	13852.6 / 44037.5	C-18
	31 to 60	May 12-14	70°06.6548	41°57.1220	13819.6 / 44059.5	C-19
	61 to 90	May 12-14	70°07.8358	41°58.1265	13821.7 / 44067.2	C-20
	61 to 90	May 5-8, 12-14	70°15.2565	41°51.4152	13896.8 / 44038.8	C-21
	91 to 120	May 12-14	70°12.2991	41°55.8655	13858.7 / 44060.7	C-22
	91 to 120	May 12-14	70°12.3345	41°57.1902	13852.8 / 44068.6	C-23
	121 to 180	May 11-14	70°18.3261	42°02.3070	13864.2 / 44108.0	C-24
	121 to 180	May 11-14	70°22.6233	42°01.4261	13894.4 / 44109.9	C-25
	181+	May 11-15	70°22.3168	42°07.0338	13865.8 / 44142.3	C-26
East of Cape Cod	181+	May 11-15	70°24.7424	42°07.1600	13879.9 / 44147.1	C-27
	181+	May 13-15	70°15.4402	42°06.0833	13828.8 / 44125.5	C-28
	0 to 30	May 14-16	69°56.2050	41°35.1952	13859.3 / 43912.5	B-1
	0 to 30	May 13-15	70°10.9703	42°05.4935	13804.9 / 44115.0	B-2
	31 to 60	May 13-16	69°58.8146	41°58.2086	13768.2 / 44054.1	B-3
	31 to 60	May 14-16	69°54.2797	41°42.2995	13816.4 / 43953.0	B-4
	31 to 60	May 14-16	69°54.6979	41°36.6381	13844.2 / 43919.2	B-5
	61 to 90	May 14-16	69°51.8858	41°40.4528	13811.1 / 43938.6	B-6
	61 to 90	May 13-16	69°55.7808	41°52.7522	13776.7 / 44017.7	B-7
	91 to 120	May 13-16	70°01.3585	42°03.4919	13757.8 / 44088.3	B-8
	91 to 120	May 14-16	69°53.2876	41°49.5984	13777.1 / 43995.3	B-9
	91 to 120	May 13-15	70°08.6114	42°06.0575	13788.0 / 44114.5	B-10
	121 to 180	May 13-16	70°02.6250	42°05.1157	13757.0 / 44099.6	B-11
	121 to 180	May 13-15	70°10.1069	42°07.6304	13789.3 / 44125.8	B-12
	121 to 180	May 13-15	70°12.6279	42°06.1134	13811.7 / 44121.1	B-13

Massachusetts Division of Marine Fisheries
May 2014 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 12-23	41°37.1622	70°09.4699	13926.9 / 43942.8	S-1
	0-30	May 12-23	41°25.5407	70°20.9680	14043.2 / 43885.8	S-2
	0-30	May 12-23	41°26.0042	70°29.2446	14089.7 / 43900.2	S-3
	0-30	May 12-23	41°25.2634	70°30.9179	14102.2 / 43897.5	S-4
	0-30	May 12-23	41°19.1065	70°07.7432	13993.0 / 43827.0	S-5
	0-30	May 12-23	41°35.1574	70°00.6715	13884.9 / 43918.4	S-6
	0-30	May 12-23	41°36.5401	70°13.9249	13955.8 / 43945.6	S-7
	0-30	May 12-23	41°31.6963	70°05.0049	13924.9 / 43903.0	S-8
	0-30	May 12-23	41°20.8245	70°16.8066	14037.9 / 44849.7	S-9
	0-30	May 12-23	41°34.9237	70°22.9176	14015.4 / 43948.3	S-10
	31-60	May 12-23	41°33.0116	70°14.7700	13975.7 / 43924.8	S-11
	31-60	May 12-23	41°22.4077	70°02.5035	13950.0 / 43841.5	S-12
	31-60	May 12-23	41°28.7607	70°26.5864	14062.8 / 43914.3	S-13
	31-60	May 12-23	41°26.7075	70°08.0855	13963.8 / 43875.9	S-14
	31-60	May 12-23	41°27.2606	70°03.5495	13935.5 / 43873.3	S-15
	31-60	May 12-23	41°31.0679	70°08.8920	13950.0 / 43904.4	S-16
	31-60	May 12-23	41°32.1124	70°25.1672	14040.5 / 43933.7	S-17
	31-60	May 12-23	41°34.8360	70°05.6970	13915.1 / 43923.3	S-18
	31-60	May 12-23	41°28.3659	70°10.5062	13970.8 / 43889.7	S-19
	31-60	May 12-23	41°30.9143	70°26.9898	14056.2 / 43928.7	S-20
	31-60	May 12-23	41°23.9499	70°06.7162	13967.6 / 43856.7	S-21
Buzzards Bay and Vineyard Sound	0-30	May 12-23	41°40.8681	70°41.3294	14100.2 / 44013.0	S-22
	0-30	May 12-23	41°37.9071	70°44.7813	14133.5 / 43999.9	S-23
	0-30	May 12-23	41°39.4972	70°44.8205	14127.0 / 44009.9	S-24
	31-60	May 12-23	41°29.3532	70°52.6833	14216.4 / 43956.2	S-25
	31-60	May 12-23	41°35.5686	70°43.9583	14138.4 / 43983.6	S-26
	31-60	May 12-23	41°31.5657	70°48.3935	14181.5 / 43964.1	S-27
	31-60	May 12-23	41°35.5825	70°46.6486	14154.5 / 43987.7	S-28
	31-60	May 12-23	41°32.3226	70°45.9592	14163.6 / 43965.5	S-29
	61-90	May 12-23	41°23.2224	70°47.0525	14206.3 / 43906.9	S-30
	61-90	May 12-23	41°23.5888	70°45.4434	14195.0 / 43907.1	S-31
	61-90	May 12-23	41°24.0348	70°54.3617	14247.3 / 43923.0	S-32
	91-120	May 12-23	41°23.8240	71°00.5182	14285.4 / 43930.5	S-33
Southwest of Gay Head and South of Martha's Vineyard	0-30	May 12-23	41°19.0845	70°28.8048	14114.4 / 43854.0	S-34
	0-30	May 12-23	41°17.7507	70°23.6455	14089.8 / 43838.6	S-35
	31-60	May 12-23	41°19.5384	70°40.1626	14179.5 / 43872.4	S-36
	31-60	May 12-23	41°20.1776	70°34.6212	14144.1 / 43869.8	S-37
	61-90	May 12-23	41°18.5575	70°37.9975	14170.4 / 43863.0	S-38
	61-90	May 12-23	41°18.0061	70°40.1801	14185.6 / 43862.2	S-39
	91-120	May 12-23	41°18.9328	70°52.4273	14255.0 / 43885.7	S-40
South of Nantucket	0-30	May 12-23	41°22.6622	69°59.8642	13934.0 / 43839.8	S-41
	0-30	May 12-23	41°17.6884	70°17.7734	14056.0 / 43830.7	S-42
	0-30	May 12-23	41°14.1811	69°59.8398	13968.3 / 43785.7	S-43
	31-60	May 12-23	41°26.5455	69°58.1515	13907.9 / 43861.9	S-44
	31-60	May 12-23	41°26.5424	70°00.7500	13922.7 / 43865.2	S-45
	31-60	May 12-23	41°15.1331	70°14.6624	14048.4 / 43810.0	S-46
	61-90	May 12-23	41°12.6578	70°10.3461	14033.8 / 43788.7	S-47