# The Commonwealth of Massachusetts
# Division of Marine Fisheries

(617) 626-1520 | www.mass.gov/marinefisheries

MAURA T. HEALEY, Governor | KIMBERLEY DRISCOLL, Lt. Governor | REBECCA L. TEPPER, Secretary | THOMAS K. O'SHEA, Commissioner | DANIEL J. MCKIERNAN, Director


July 11, 2023

Fixed Gear Fishermen of Massachusetts,

*MarineFisheries* will be conducting its annual fall trawl survey throughout state coastal waters beginning September 5, 2023. 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 various marine stocks. The data is also used to inform the environmental review process, which advises on ways to minimize construction impacts on fisheries resources. Maintaining access to the planned sampling sites is critical to the integrity of the survey.

Please review either the live map on our website or the attached tables and maps of station locations. The live map displays all remaining tow locations, the map can be found on our website (https://www.mass.gov/service-details/review-trawl-survey-updates). The live map has a feature which allows you to display your current location. Within see the map in full screen, on the upper lefthand side of the map page select the "scope icon" button just below the home button. With the location feature toggled on, your device will display your live location on the map in relation to tow circles and historical tows. This feature can be used to assure gear is not in conflict with planned tows. **We kindly ask for your cooperation and insist that all fixed gear be kept clear of the shaded station tow circles by the dates listed in the table.** The coordinates of each selected point are provided in the attached table. The live map and attached figures show the station with a 1.5 n. mi. diameter circle around the selected point. All station circles are trimmed to the appropriate stratum which represents actual station outline. A list of station location information can also be accessed on our website (https://www.mass.gov/service-details/review-trawl-survey-updates). We will make every attempt to complete stations as timely as possible to minimize inconvenience to fixed gear fishermen. Completed stations will be updated and announced daily to notify fishermen that gear can be returned to the area. *MarineFisheries* is prepared to attach restrictions to permits (under 322 CMR 7.01 (7)), mandating that fixed gear is not set on designated trawl survey sites between the announced date and notification of station completion. It remains our hope that this action will be unnecessary.

Each day the MLA will be notified of survey progress and all completed stations will be removed from the live map. 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 (steve.wilcox@mass.gov or 508-742-9731. If you have any questions about the *MarineFisheries* website, or Facebook, please contact Story Reed (story.reed@mass.gov or 617-626-1524).

Sincerely,

Steven Wilcox
Senior Marine Fisheries Biologist

Cc. Dan McKiernan, Director

**Massachusetts Division of Marine Fisheries**
**September 2023 Fall Trawl Survey Station Locations**
**Massachusetts Bay to New Hampshire**

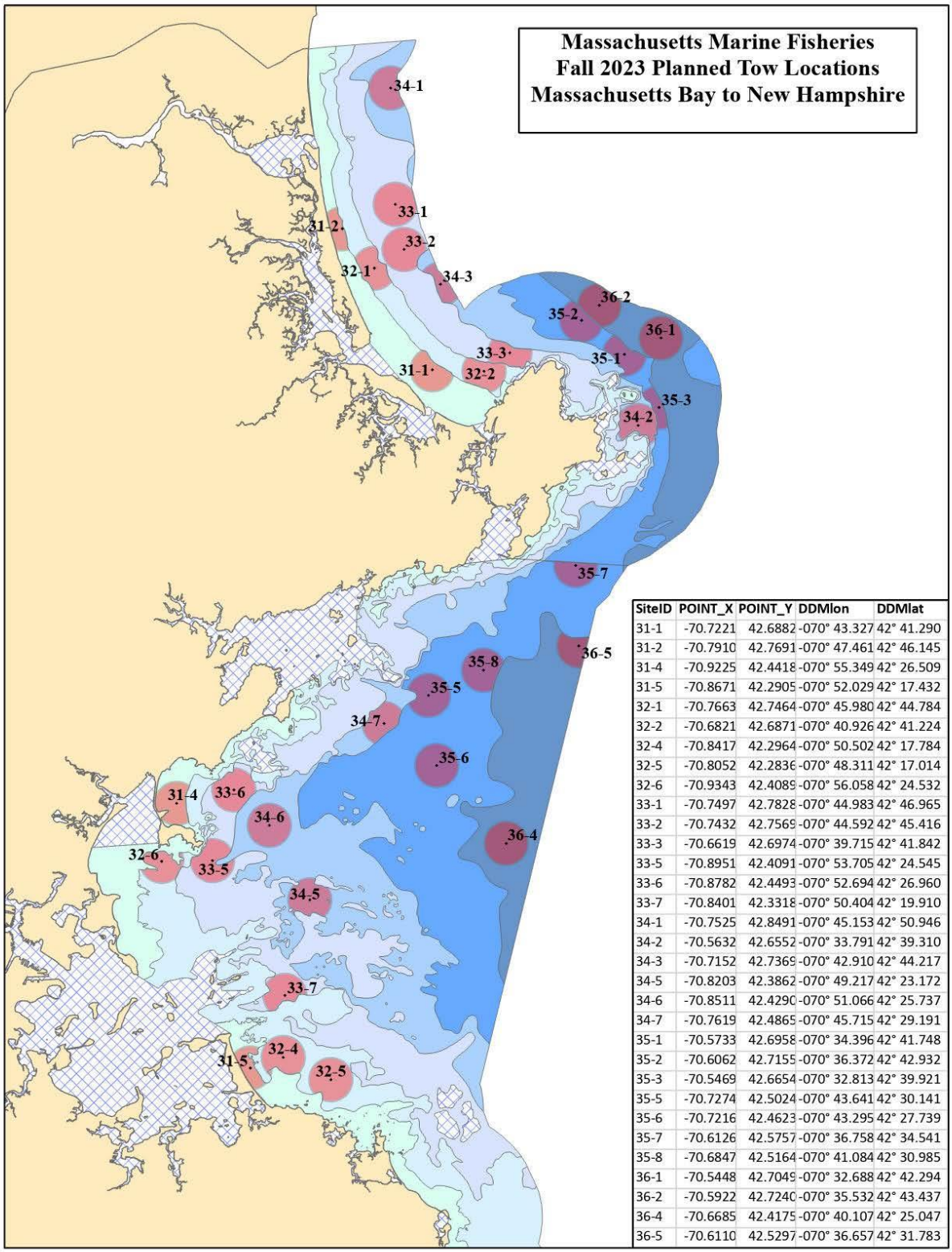
| Area Description | Depth | Relocate gear before date | Lat DD MM.mmm | Long DD MM.mmm | Lat DD.dddd | Long DD.dddd | Sta. ID# |
|---|---|---|---|---|---|---|---|
| **Cape Ann and North** | 0-30' | 9/9/2023 | 42° 41.290 | -070° 43.327 | 42.6882 | -70.7221 | 31-1 |
| | 0-30' | 9/9/2023 | 42° 46.145 | -070° 47.461 | 42.7691 | -70.7910 | 31-2 |
| | 31'-60' | 9/9/2023 | 42° 41.748 | -070° 34.396 | 42.6958 | -70.5733 | 32-1 |
| | 31'-60' | 9/9/2023 | 42° 42.932 | -070° 36.372 | 42.7155 | -70.6062 | 32-2 |
| | 61'-90' | 9/9/2023 | 42° 39.921 | -070° 32.813 | 42.6654 | -70.5469 | 33-1 |
| | 61'-90' | 9/9/2023 | 42° 42.294 | -070° 32.688 | 42.7049 | -70.5448 | 33-2 |
| | 61'-90' | 9/9/2023 | 42° 43.437 | -070° 35.532 | 42.7240 | -70.5922 | 33-3 |
| | 91'-120' | 9/9/2023 | 42° 44.784 | -070° 45.980 | 42.7464 | -70.7663 | 34-1 |
| | 91'-120' | 9/9/2023 | 42° 41.224 | -070° 40.926 | 42.6871 | -70.6821 | 34-2 |
| | 91'-120' | 9/9/2023 | 42° 46.965 | -070° 44.983 | 42.7828 | -70.7497 | 34-3 |
| | 121'-180' | 9/9/2023 | 42° 45.416 | -070° 44.592 | 42.7569 | -70.7432 | 35-1 |
| | 121'-180' | 9/9/2023 | 42° 41.842 | -070° 39.715 | 42.6974 | -70.6619 | 35-2 |
| | 121'-180' | 9/9/2023 | 42° 50.946 | -070° 45.153 | 42.8491 | -70.7525 | 35-3 |
| | 181'+ | 9/9/2023 | 42° 39.310 | -070° 33.791 | 42.6552 | -70.5632 | 36-1 |
| | 181'+ | 9/9/2023 | 42° 44.217 | -070° 42.910 | 42.7369 | -70.7152 | 36-2 |
| **Massachusetts Bay** | 0-30' | 9/8/2023 | 42° 26.509 | -070° 55.349 | 42.4418 | -70.9225 | 31-4 |
| | 0-30' | 9/7/2023 | 42° 17.432 | -070° 52.029 | 42.2905 | -70.8671 | 31-5 |
| | 31'-60' | 9/7/2023 | 42° 17.784 | -070° 50.502 | 42.2964 | -70.8417 | 32-4 |
| | 31'-60' | 9/7/2023 | 42° 17.014 | -070° 48.311 | 42.2836 | -70.8052 | 32-5 |
| | 31'-60' | 9/8/2023 | 42° 24.532 | -070° 56.058 | 42.4089 | -70.9343 | 32-6 |
| | 61'-90' | 9/8/2023 | 42° 24.545 | -070° 53.705 | 42.4091 | -70.8951 | 33-5 |
| | 61'-90' | 9/8/2023 | 42° 26.960 | -070° 52.694 | 42.4493 | -70.8782 | 33-6 |
| | 61'-90' | 9/7/2023 | 42° 19.910 | -070° 50.404 | 42.3318 | -70.8401 | 33-7 |
| | 91'-120' | 9/7/2023 | 42° 23.172 | -070° 49.217 | 42.3862 | -70.8203 | 34-5 |
| | 91'-120' | 9/8/2023 | 42° 25.737 | -070° 51.066 | 42.4290 | -70.8511 | 34-6 |
| | 91'-120' | 9/8/2023 | 42° 29.191 | -070° 45.715 | 42.4865 | -70.7619 | 34-7 |
| | 121'-180' | 9/8/2023 | 42° 30.141 | -070° 43.641 | 42.5024 | -70.7274 | 35-5 |
| | 121'-180' | 9/8/2023 | 42° 27.739 | -070° 43.295 | 42.4623 | -70.7216 | 35-6 |
| | 121'-180' | 9/8/2023 | 42° 34.541 | -070° 36.758 | 42.5757 | -70.6126 | 35-7 |
| | 121'-180' | 9/8/2023 | 42° 30.985 | -070° 41.084 | 42.5164 | -70.6847 | 35-8 |
| | 181'+ | 9/8/2023 | 42° 25.047 | -070° 40.107 | 42.4175 | -70.6685 | 36-4 |
| | 181'+ | 9/8/2023 | 42° 31.783 | -070° 36.657 | 42.5297 | -70.6110 | 36-5 |

**Massachusetts Division of Marine Fisheries**
**September 2023 Fall Trawl Survey Station Locations**
**Cape Cod Bay and East of Cape Cod**

| Area Description | Depth | Relocate gear before date | Lat DD MM.mmm | Long DD MM.mmm | Lat DD.dddd | Long DD.dddd | Sta. ID# |
|---|---|---|---|---|---|---|---|
| **Western Cape Cod Bay** | 0-30' | 9/5/2023 | 41° 45.210 | -070° 25.507 | 41.7535 | -70.4251 | 25-1 |
| | 0-30' | 9/7/2023 | 42° 03.385 | -070° 38.366 | 42.0564 | -70.6394 | 25-2 |
| | 0-30' | 9/5/2023 | 41° 50.839 | -070° 30.921 | 41.8473 | -70.5153 | 25-3 |
| | 31'-60' | 9/5/2023 | 41° 58.523 | -070° 34.961 | 41.9754 | -70.5827 | 26-1 |
| | 31'-60' | 9/5/2023 | 41° 48.111 | -070° 14.859 | 41.8018 | -70.2476 | 26-2 |
| | 31'-60' | 9/5/2023 | 41° 45.009 | -070° 22.267 | 41.7501 | -70.3711 | 26-3 |
| | 31'-60' | 9/7/2023 | 42° 08.601 | -070° 40.445 | 42.1434 | -70.6741 | 26-4 |
| | 61'-90' | 9/5/2023 | 41° 48.940 | -070° 19.329 | 41.8157 | -70.3222 | 27-1 |
| | 61'-90' | 9/5/2023 | 41° 51.932 | -070° 28.904 | 41.8655 | -70.4817 | 27-2 |
| | 61'-90' | 9/5/2023 | 41° 46.554 | -070° 23.984 | 41.7759 | -70.3997 | 27-3 |
| | 61'-90' | 9/5/2023 | 41° 49.075 | -070° 26.627 | 41.8179 | -70.4438 | 27-4 |
| | 91'-120' | 9/5/2023 | 41° 53.220 | -070° 25.902 | 41.8870 | -70.4317 | 28-1 |
| | 91'-120' | 9/5/2023 | 41° 53.841 | -070° 18.583 | 41.8973 | -70.3097 | 28-2 |
| | 91'-120' | 9/5/2023 | 41° 52.444 | -070° 24.087 | 41.8741 | -70.4015 | 28-3 |
| | 121'-180' | 9/11/2023 | 42° 05.765 | -070° 29.498 | 42.0961 | -70.4916 | 29-1 |
| | 121'-180' | 9/5/2023 | 41° 58.727 | -070° 25.735 | 41.9788 | -70.4289 | 29-2 |
| | 121'-180' | 9/11/2023 | 42° 03.940 | -070° 28.762 | 42.0657 | -70.4794 | 29-3 |
| **Eastern Cape Cod Bay** | 0-30' | 9/5/2023 | 41° 48.877 | -070° 02.564 | 41.8146 | -70.0427 | 25-5 |
| | 0-30' | 9/12/2023 | 42° 02.616 | -070° 07.723 | 42.0436 | -70.1287 | 25-6 |
| | 31'-60' | 9/5/2023 | 41° 50.962 | -070° 10.970 | 41.8494 | -70.1828 | 26-6 |
| | 31'-60' | 9/12/2023 | 42° 01.433 | -070° 06.811 | 42.0239 | -70.1135 | 26-7 |
| | 31'-60' | 9/5/2023 | 41° 53.434 | -070° 09.190 | 41.8906 | -70.1532 | 26-8 |
| | 61'-90' | 9/5/2023 | 41° 51.093 | -070° 14.781 | 41.8516 | -70.2463 | 27-6 |
| | 61'-90' | 9/12/2023 | 41° 59.943 | -070° 09.295 | 41.9990 | -70.1549 | 27-7 |
| | 61'-90' | 9/12/2023 | 41° 58.321 | -070° 07.463 | 41.9720 | -70.1244 | 27-8 |
| | 91'-120' | 9/12/2023 | 41° 56.493 | -070° 11.781 | 41.9415 | -70.1964 | 28-5 |
| | 91'-120' | 9/12/2023 | 41° 55.476 | -070° 10.789 | 41.9246 | -70.1798 | 28-6 |
| | 91'-120' | 9/5/2023 | 41° 52.887 | -070° 15.369 | 41.8815 | -70.2561 | 28-7 |
| | 121'-180' | 9/11/2023 | 41° 57.260 | -070° 17.087 | 41.9543 | -70.2848 | 29-5 |
| | 121'-180' | 9/11/2023 | 42° 03.789 | -070° 24.471 | 42.0632 | -70.4078 | 29-6 |
| | 121'-180' | 9/11/2023 | 41° 57.695 | -070° 19.617 | 41.9616 | -70.3270 | 29-7 |
| | 181'+ | 9/11/2023 | 42° 06.798 | -070° 24.610 | 42.1133 | -70.4102 | 30-1 |
| | 181'+ | 9/11/2023 | 42° 05.154 | -070° 15.330 | 42.0859 | -70.2555 | 30-2 |
| | 181'+ | 9/11/2023 | 42° 04.922 | -070° 22.540 | 42.0820 | -70.3757 | 30-3 |
| **East of Cape Cod** | 0-30' | 9/13/2023 | 42° 05.451 | -070° 11.584 | 42.0908 | -70.1931 | 17-1 |
| | 0-30' | 9/13/2023 | 41° 44.938 | -069° 55.284 | 41.7490 | -69.9214 | 17-2 |
| | 31'-60' | 9/13/2023 | 41° 52.290 | -069° 56.533 | 41.8715 | -69.9422 | 18-1 |
| | 31'-60' | 9/13/2023 | 41° 45.650 | -069° 54.567 | 41.7608 | -69.9094 | 18-2 |
| | 31'-60' | 9/13/2023 | 42° 05.281 | -070° 07.518 | 42.0880 | -70.1253 | 18-3 |
| | 61'-90' | 9/13/2023 | 41° 49.434 | -069° 54.623 | 41.8239 | -69.9104 | 19-1 |
| | 61'-90' | 9/13/2023 | 41° 57.718 | -069° 57.979 | 41.9620 | -69.9663 | 19-2 |
| | 91'-120' | 9/13/2023 | 41° 46.895 | -069° 52.082 | 41.7816 | -69.8680 | 20-1 |
| | 91'-120' | 9/13/2023 | 41° 49.689 | -069° 53.155 | 41.8281 | -69.8859 | 20-2 |
| | 91'-120' | 9/13/2023 | 42° 06.087 | -070° 08.902 | 42.1015 | -70.1484 | 20-3 |
| | 121'-180' | 9/13/2023 | 42° 06.296 | -070° 12.451 | 42.1049 | -70.2075 | 21-1 |
| | 121'-180' | 9/13/2023 | 41° 49.503 | -069° 52.594 | 41.8251 | -69.8766 | 21-2 |
| | 121'-180' | 9/13/2023 | 42° 07.509 | -070° 10.708 | 42.1251 | -70.1785 | 21-3 |

**Massachusetts Division of Marine Fisheries**
**September 2023 Fall Trawl Survey Station Locations**
**South of Cape Cod**

| Area Description | Depth | Relocate gear before date | Latitude DD MM.mmm | Longitude DD MM.mmm | Latitude DD.dddd | Longitude DD.dddd | Sta. ID# |
|---|---|---|---|---|---|---|---|
| **Buzzards Bay and Vineyard Sound** | 0-30' | 9/14/2023 | 41° 25.719 | -070° 44.306 | 41.4287 | -70.7384 | 11-1 |
| | 0-30' | 9/14/2023 | 41° 38.766 | -070° 41.964 | 41.6461 | -70.6994 | 11-2 |
| | 0-30' | 9/14/2023 | 41° 34.679 | -070° 54.259 | 41.5780 | -70.9043 | 11-3 |
| | 31'-60' | 9/14/2023 | 41° 32.275 | -070° 49.167 | 41.5379 | -70.8195 | 12-1 |
| | 31'-60' | 9/14/2023 | 41° 36.5786 | -070° 42.261 | 41.6096 | -70.7043 | 12-2 |
| | 31'-60' | 9/14/2023 | 41° 28.648 | -071° 03.911 | 41.4775 | -71.0652 | 12-3 |
| | 31'-60' | 9/14/2023 | 41° 30.072 | -070° 46.227 | 41.5012 | -70.7705 | 12-4 |
| | 31'-60' | 9/14/2023 | 41° 25.478 | -070° 45.674 | 41.4246 | -70.7612 | 12-5 |
| | 61'-90' | 9/14/2023 | 41° 29.073 | -070° 41.314 | 41.4845 | -70.6886 | 13-1 |
| | 61'-90' | 9/14/2023 | 41° 29.540 | -070° 39.663 | 41.4923 | -70.6611 | 13-2 |
| | 61'-90' | 9/14/2023 | 41° 24.606 | -070° 52.819 | 41.4101 | -70.8803 | 13-3 |
| | 91'-120' | 9/14/2023 | 41° 21.097 | -070° 56.718 | 41.3516 | -70.9453 | 14-1 |
| **Southwest of Gay Head and South of Martha's Vineyard** | 0-30' | 9/14/2023 | 41° 17.723 | -070° 24.494 | 41.2954 | -70.4082 | 11-5 |
| | 0-30' | 9/14/2023 | 41° 24.060 | -070° 25.704 | 41.4010 | -70.4284 | 11-6 |
| | 31'-60' | 9/14/2023 | 41° 20.056 | -070° 37.646 | 41.3343 | -70.6274 | 12-7 |
| | 31'-60' | 9/14/2023 | 41° 18.855 | -070° 31.085 | 41.3143 | -70.5181 | 12-8 |
| | 61'-90' | 9/14/2023 | 41° 18.819 | -070° 41.035 | 41.3137 | -70.6839 | 13-5 |
| | 61'-90' | 9/14/2023 | 41° 18.286 | -070° 37.333 | 41.3048 | -70.6222 | 13-6 |
| | 91'-120' | 9/14/2023 | 41° 12.829 | -070° 46.414 | 41.2138 | -70.7736 | 14-3 |
| **Nantucket Sound** | 0-30' | 9/14/2023 | 41° 25.831 | -070° 30.104 | 41.4305 | -70.5017 | 15-1 |
| | 0-30' | 9/14/2023 | 41° 31.977 | -070° 21.696 | 41.5330 | -70.3616 | 15-2 |
| | 0-30' | 9/14/2023 | 41° 37.308 | -070° 10.166 | 41.6218 | -70.1694 | 15-3 |
| | 0-30' | 9/14/2023 | 41° 37.389 | -070° 03.042 | 41.6231 | -70.0507 | 15-4 |
| | 0-30' | 9/14/2023 | 41° 35.322 | -070° 16.734 | 41.5887 | -70.2789 | 15-5 |
| | 0-30' | 9/14/2023 | 41° 38.388 | -070° 04.972 | 41.6398 | -70.0829 | 15-6 |
| | 0-30' | 9/14/2023 | 41° 31.316 | -070° 11.689 | 41.5219 | -70.1948 | 15-7 |
| | 0-30' | 9/14/2023 | 41° 30.619 | -070° 24.015 | 41.5103 | -70.4003 | 15-8 |
| | 0-30' | 9/14/2023 | 41° 23.851 | -070° 10.640 | 41.3975 | -70.1773 | 15-9 |
| | 0-30' | 9/14/2023 | 41° 19.620 | -070° 12.789 | 41.3270 | -70.2132 | 15-10 |
| | 31'-60' | 9/14/2023 | 41° 24.900 | -070° 16.629 | 41.4150 | -70.2771 | 16-1 |
| | 31'-60' | 9/14/2023 | 41° 21.616 | -070° 05.476 | 41.3603 | -70.0913 | 16-2 |
| | 31'-60' | 9/14/2023 | 41° 28.380 | -070° 23.669 | 41.4730 | -70.3945 | 16-3 |
| | 31'-60' | 9/14/2023 | 41° 27.862 | -070° 29.696 | 41.4644 | -70.4949 | 16-4 |
| | 31'-60' | 9/14/2023 | 41° 26.953 | -070° 23.408 | 41.4492 | -70.3901 | 16-5 |
| | 31'-60' | 9/14/2023 | 41° 27.350 | -070° 17.800 | 41.4558 | -70.2967 | 16-6 |
| | 31'-60' | 9/14/2023 | 41° 31.363 | -070° 13.377 | 41.5227 | -70.2230 | 16-7 |
| | 31'-60' | 9/14/2023 | 41° 35.744 | -070° 11.794 | 41.5957 | -70.1966 | 16-8 |
| | 31'-60' | 9/14/2023 | 41° 28.466 | -070° 06.409 | 41.4744 | -70.1068 | 16-9 |
| | 31'-60' | 9/14/2023 | 41° 19.560 | -070° 04.020 | 41.3260 | -70.0670 | 16-10 |
| | 31'-60' | 9/14/2023 | 41° 33.270 | -070° 21.575 | 41.5545 | -70.3596 | 16-11 |
| **South and East of Nantucket** | 0-30' | 9/14/2023 | 41° 31.435 | -069° 56.659 | 41.5239 | -69.9443 | 17-4 |
| | 0-30' | 9/14/2023 | 41° 17.362 | -070° 19.693 | 41.2894 | -70.3282 | 17-5 |
| | 0-30' | 9/14/2023 | 41° 21.826 | -069° 59.493 | 41.3638 | -69.9916 | 17-6 |
| | 31'-60' | 9/14/2023 | 41° 12.989 | -070° 08.952 | 41.2165 | -70.1492 | 18-5 |
| | 31'-60' | 9/14/2023 | 41° 26.247 | -069° 58.840 | 41.4375 | -69.9807 | 18-6 |
| | 31'-60' | 9/14/2023 | 41° 15.489 | -070° 13.114 | 41.2582 | -70.2186 | 18-7 |
| | 61'-90' | 9/14/2023 | 41° 14.570 | -070° 15.967 | 41.2428 | -70.2661 | 19-4 |




| SiteID | POINT_X | POINT_Y | DDMlon | DDMlat |
|---|---|---|---|---|
| 31-1 | -70.7221 | 42.6882 | -070° 43.327 | 42° 41.290 |
| 31-2 | -70.7910 | 42.7691 | -070° 47.461 | 42° 46.145 |
| 31-4 | -70.9225 | 42.4418 | -070° 55.349 | 42° 26.509 |
| 31-5 | -70.8671 | 42.2905 | -070° 52.029 | 42° 17.432 |
| 32-1 | -70.7663 | 42.7464 | -070° 45.980 | 42° 44.784 |
| 32-2 | -70.6821 | 42.6871 | -070° 40.926 | 42° 41.224 |
| 32-4 | -70.8417 | 42.2964 | -070° 50.502 | 42° 17.784 |
| 32-5 | -70.8052 | 42.2836 | -070° 48.311 | 42° 17.014 |
| 32-6 | -70.9343 | 42.4089 | -070° 56.058 | 42° 24.532 |
| 33-1 | -70.7497 | 42.7828 | -070° 44.983 | 42° 46.965 |
| 33-2 | -70.7432 | 42.7569 | -070° 44.592 | 42° 45.416 |
| 33-3 | -70.6619 | 42.6974 | -070° 39.715 | 42° 41.842 |
| 33-5 | -70.8951 | 42.4091 | -070° 53.705 | 42° 24.545 |
| 33-6 | -70.8782 | 42.4493 | -070° 52.694 | 42° 26.960 |
| 33-7 | -70.8401 | 42.3318 | -070° 50.404 | 42° 19.910 |
| 34-1 | -70.7525 | 42.8491 | -070° 45.153 | 42° 50.946 |
| 34-2 | -70.5632 | 42.6552 | -070° 33.791 | 42° 39.310 |
| 34-3 | -70.7152 | 42.7369 | -070° 42.910 | 42° 44.217 |
| 34-5 | -70.8203 | 42.3862 | -070° 49.217 | 42° 23.172 |
| 34-6 | -70.8511 | 42.4290 | -070° 51.066 | 42° 25.737 |
| 34-7 | -70.7619 | 42.4865 | -070° 45.715 | 42° 29.191 |
| 35-1 | -70.5733 | 42.6958 | -070° 34.396 | 42° 41.748 |
| 35-2 | -70.6062 | 42.7155 | -070° 36.372 | 42° 42.932 |
| 35-3 | -70.5469 | 42.6654 | -070° 32.813 | 42° 39.921 |
| 35-5 | -70.7274 | 42.5024 | -070° 43.641 | 42° 30.141 |
| 35-6 | -70.7216 | 42.4623 | -070° 43.295 | 42° 27.739 |
| 35-7 | -70.6126 | 42.5757 | -070° 36.758 | 42° 34.541 |
| 35-8 | -70.6847 | 42.5164 | -070° 41.084 | 42° 30.985 |
| 36-1 | -70.5448 | 42.7049 | -070° 32.688 | 42° 42.294 |
| 36-2 | -70.5922 | 42.7240 | -070° 35.532 | 42° 43.437 |
| 36-4 | -70.6685 | 42.4175 | -070° 40.107 | 42° 25.047 |
| 36-5 | -70.6110 | 42.5297 | -070° 36.657 | 42° 31.783 |

| SiteID | POINT_X | POINT_Y | DDMlon | DDMlat |
|---|---|---|---|---|
| 25-1 | -70.4251 | 41.7535 | -070° 25.507 | 41° 45.210 |
| 25-2 | -70.6394 | 42.0564 | -070° 38.366 | 42° 03.385 |
| 25-3 | -70.5153 | 41.8473 | -070° 30.921 | 41° 50.839 |
| 25-5 | -70.0427 | 41.8146 | -070° 02.564 | 41° 48.877 |
| 25-6 | -70.1287 | 42.0436 | -070° 07.723 | 42° 02.616 |
| 26-1 | -70.5827 | 41.9754 | -070° 34.961 | 41° 58.523 |
| 26-2 | -70.2476 | 41.8018 | -070° 14.859 | 41° 48.111 |
| 26-3 | -70.3711 | 41.7501 | -070° 22.267 | 41° 45.009 |
| 26-4 | -70.6741 | 42.1434 | -070° 40.445 | 42° 08.601 |
| 26-6 | -70.1828 | 41.8494 | -070° 10.970 | 41° 50.962 |
| 26-7 | -70.1135 | 42.0239 | -070° 06.811 | 42° 01.433 |
| 26-8 | -70.1532 | 41.8906 | -070° 09.190 | 41° 53.434 |
| 27-1 | -70.3222 | 41.8157 | -070° 19.329 | 41° 48.940 |
| 27-2 | -70.4817 | 41.8655 | -070° 28.904 | 41° 51.932 |
| 27-3 | -70.3997 | 41.7759 | -070° 23.984 | 41° 46.554 |
| 27-4 | -70.4438 | 41.8179 | -070° 26.627 | 41° 49.075 |
| 27-6 | -70.2463 | 41.8516 | -070° 14.781 | 41° 51.093 |
| 27-7 | -70.1549 | 41.9990 | -070° 09.295 | 41° 59.943 |
| 27-8 | -70.1244 | 41.9720 | -070° 07.463 | 41° 58.321 |
| 28-1 | -70.4317 | 41.8870 | -070° 25.902 | 41° 53.220 |
| 28-2 | -70.3097 | 41.8973 | -070° 18.583 | 41° 53.841 |
| 28-3 | -70.4015 | 41.8741 | -070° 24.087 | 41° 52.444 |
| 28-5 | -70.1964 | 41.9415 | -070° 11.781 | 41° 56.493 |
| 28-6 | -70.1798 | 41.9246 | -070° 10.789 | 41° 55.476 |
| 28-7 | -70.2561 | 41.8815 | -070° 15.369 | 41° 52.887 |
| 29-1 | -70.4916 | 42.0961 | -070° 29.498 | 42° 05.765 |
| 29-2 | -70.4289 | 41.9788 | -070° 25.735 | 41° 58.727 |
| 29-3 | -70.4794 | 42.0657 | -070° 28.762 | 42° 03.940 |
| 29-5 | -70.2848 | 41.9543 | -070° 17.087 | 41° 57.260 |
| 29-6 | -70.4078 | 42.0632 | -070° 24.471 | 42° 03.789 |
| 29-7 | -70.3270 | 41.9616 | -070° 19.617 | 41° 57.695 |
| 30-1 | -70.4102 | 42.1133 | -070° 24.610 | 42° 06.798 |
| 30-2 | -70.2555 | 42.0859 | -070° 15.330 | 42° 05.154 |
| 30-3 | -70.3757 | 42.0820 | -070° 22.540 | 42° 04.922 |
| 17-1 | -70.1931 | 42.0908 | -070° 11.584 | 42° 05.451 |
| 17-2 | -69.9214 | 41.7490 | -069° 55.284 | 41° 44.938 |
| 18-1 | -69.9422 | 41.8715 | -069° 56.533 | 41° 52.290 |
| 18-2 | -69.9094 | 41.7608 | -069° 54.567 | 41° 45.650 |
| 18-3 | -70.1253 | 42.0880 | -070° 07.518 | 42° 05.281 |
| 19-1 | -69.9104 | 41.8239 | -069° 54.623 | 41° 49.434 |
| 19-2 | -69.9663 | 41.9620 | -069° 57.979 | 41° 57.718 |
| 20-1 | -69.8680 | 41.7816 | -069° 52.082 | 41° 46.895 |
| 20-2 | -69.8859 | 41.8281 | -069° 53.155 | 41° 49.689 |
| 20-3 | -70.1484 | 42.1015 | -070° 08.902 | 42° 06.087 |
| 21-1 | -70.2075 | 42.1049 | -070° 12.451 | 42° 06.296 |
| 21-2 | -69.8766 | 41.8251 | -069° 52.594 | 41° 49.503 |
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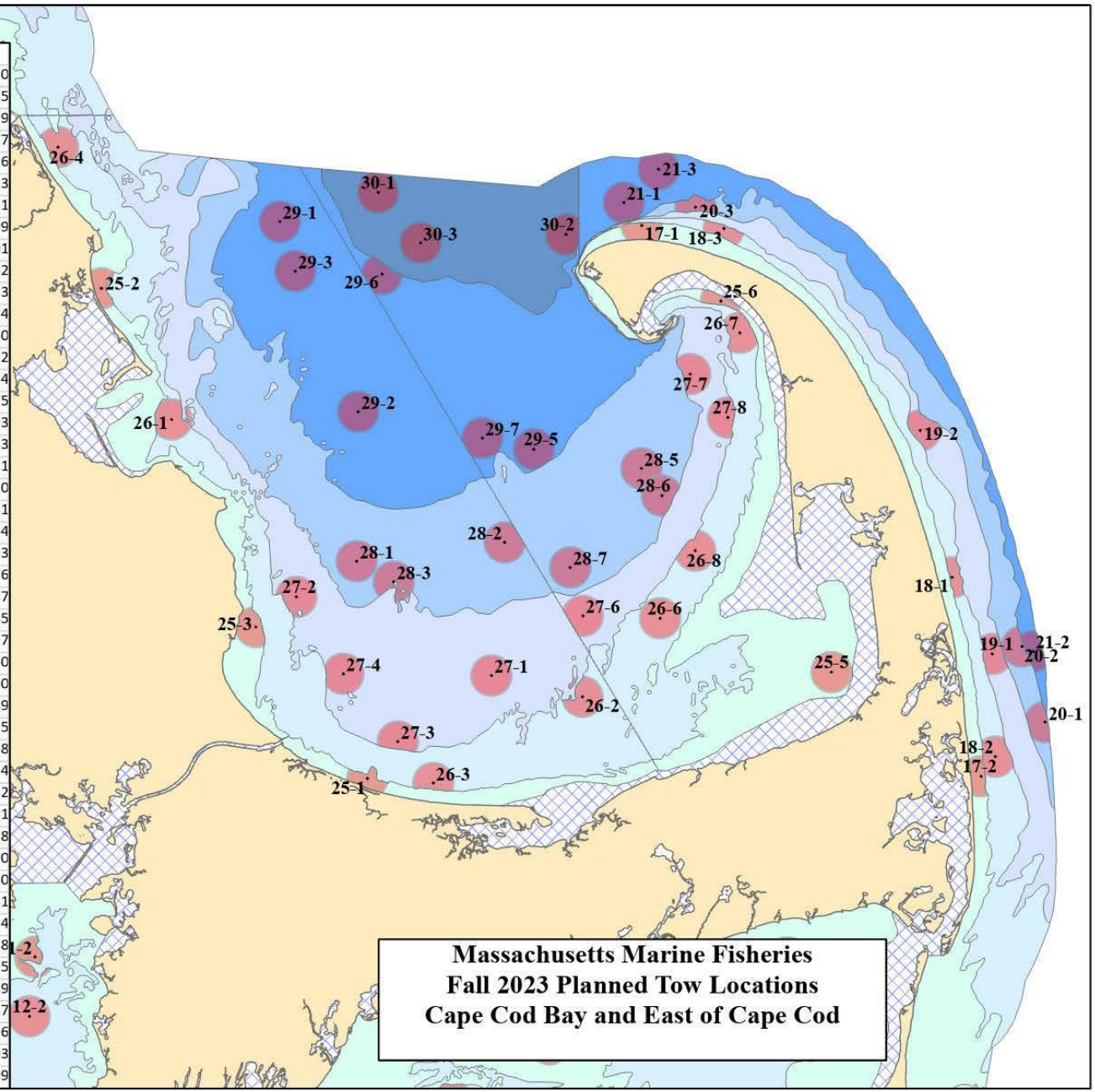
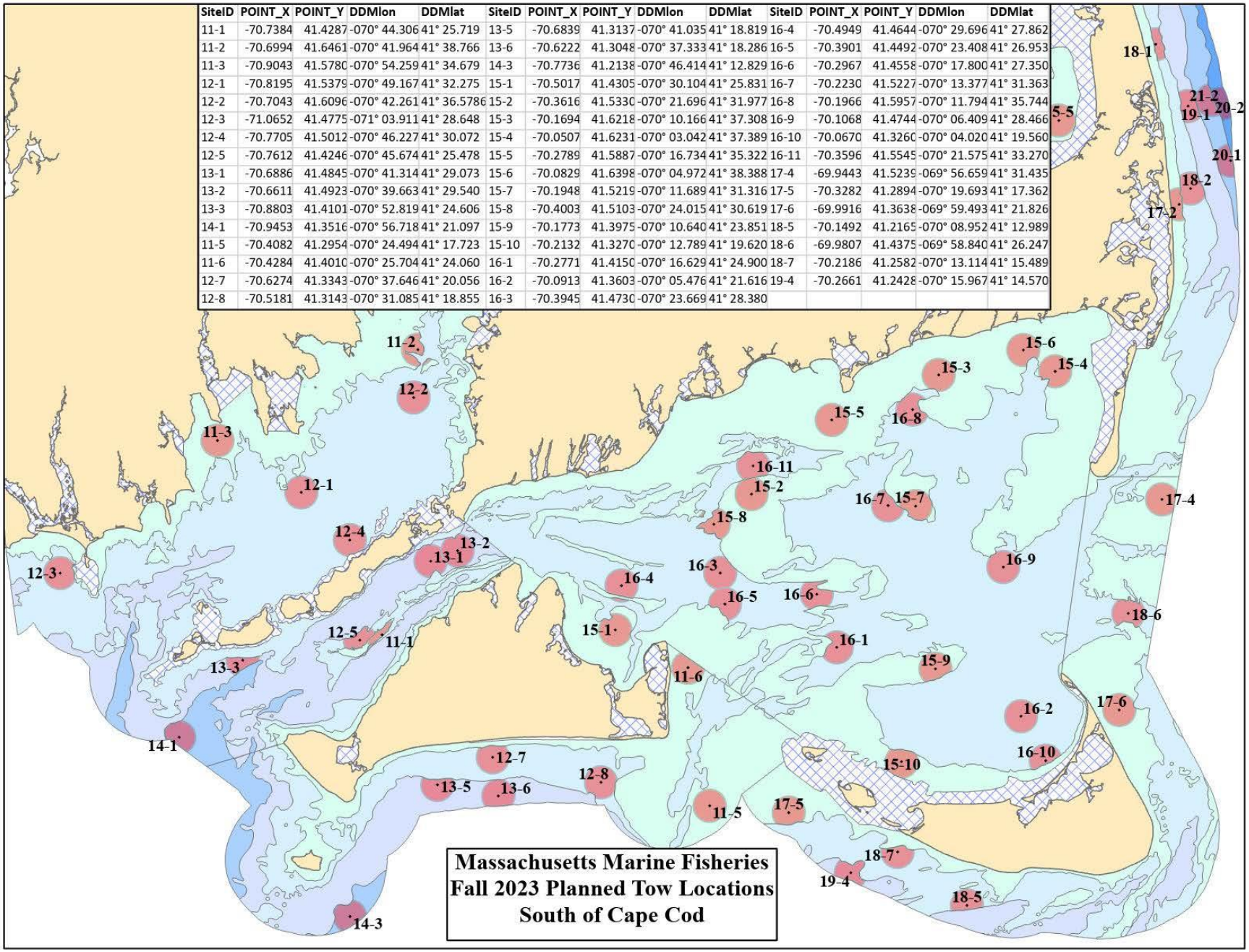



**Massachusetts Marine Fisheries**
**Fall 2023 Planned Tow Locations**
**Cape Cod Bay and East of Cape Cod**

| SiteID | POINT_X | POINT_Y | DDMlon | DDMlat | SiteID | POINT_X | POINT_Y | DDMlon | DDMlat | SiteID | POINT_X | POINT_Y | DDMlon | DDMlat |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 11-1 | -70.7384 | 41.4287 | -070° 44.306 | 41° 25.719 | 13-5 | -70.6839 | 41.3137 | -070° 41.035 | 41° 18.819 | 16-4 | -70.4949 | 41.4644 | -070° 29.696 | 41° 27.862 |
| 11-2 | -70.6994 | 41.6461 | -070° 41.964 | 41° 38.766 | 13-6 | -70.6222 | 41.3048 | -070° 37.333 | 41° 18.286 | 16-5 | -70.3901 | 41.4492 | -070° 23.408 | 41° 26.953 |
| 11-3 | -70.9043 | 41.5780 | -070° 54.259 | 41° 34.679 | 14-3 | -70.7736 | 41.2138 | -070° 46.414 | 41° 12.829 | 16-6 | -70.2967 | 41.4558 | -070° 17.800 | 41° 27.350 |
| 12-1 | -70.8195 | 41.5379 | -070° 49.167 | 41° 32.275 | 15-1 | -70.5017 | 41.4305 | -070° 30.104 | 41° 25.831 | 16-7 | -70.2230 | 41.5227 | -070° 13.377 | 41° 31.363 |
| 12-2 | -70.7043 | 41.6096 | -070° 42.261 | 41° 36.5786 | 15-2 | -70.3616 | 41.5330 | -070° 21.696 | 41° 31.977 | 16-8 | -70.1966 | 41.5957 | -070° 11.794 | 41° 35.744 |
| 12-3 | -71.0652 | 41.4775 | -071° 03.911 | 41° 28.648 | 15-3 | -70.1694 | 41.6218 | -070° 10.166 | 41° 37.308 | 16-9 | -70.1068 | 41.4744 | -070° 06.409 | 41° 28.466 |
| 12-4 | -70.7705 | 41.5012 | -070° 46.227 | 41° 30.072 | 15-4 | -70.0507 | 41.6231 | -070° 03.042 | 41° 37.389 | 16-10 | -70.0670 | 41.3260 | -070° 04.020 | 41° 19.560 |
| 12-5 | -70.7612 | 41.4246 | -070° 45.674 | 41° 25.478 | 15-5 | -70.2789 | 41.5887 | -070° 16.734 | 41° 35.322 | 16-11 | -70.3596 | 41.5545 | -070° 21.575 | 41° 33.270 |
| 13-1 | -70.6886 | 41.4845 | -070° 41.314 | 41° 29.073 | 15-6 | -70.0829 | 41.6398 | -070° 04.972 | 41° 38.388 | 17-4 | -69.9443 | 41.5239 | -069° 56.659 | 41° 31.435 |
| 13-2 | -70.6611 | 41.4923 | -070° 39.663 | 41° 29.540 | 15-7 | -70.1948 | 41.5219 | -070° 11.689 | 41° 31.316 | 17-5 | -70.3282 | 41.2894 | -070° 19.693 | 41° 17.362 |
| 13-3 | -70.8803 | 41.4101 | -070° 52.819 | 41° 24.606 | 15-8 | -70.4003 | 41.5103 | -070° 24.015 | 41° 30.619 | 17-6 | -69.9916 | 41.3638 | -069° 59.493 | 41° 21.826 |
| 14-1 | -70.9453 | 41.3516 | -070° 56.718 | 41° 21.097 | 15-9 | -70.1773 | 41.3975 | -070° 10.640 | 41° 23.851 | 18-5 | -70.1492 | 41.2165 | -070° 08.952 | 41° 12.989 |
| 11-5 | -70.4082 | 41.2954 | -070° 24.494 | 41° 17.723 | 15-10 | -70.2132 | 41.3270 | -070° 12.789 | 41° 19.620 | 18-6 | -69.9807 | 41.4375 | -069° 58.840 | 41° 26.247 |
| 11-6 | -70.4284 | 41.4010 | -070° 25.704 | 41° 24.060 | 16-1 | -70.2771 | 41.4150 | -070° 16.629 | 41° 24.900 | 18-7 | -70.2186 | 41.2582 | -070° 13.114 | 41° 15.489 |
| 12-7 | -70.6274 | 41.3343 | -070° 37.646 | 41° 20.056 | 16-2 | -70.0913 | 41.3603 | -070° 05.476 | 41° 21.616 | 19-4 | -70.2661 | 41.2428 | -070° 15.967 | 41° 14.570 |
| 12-8 | -70.5181 | 41.3143 | -070° 31.085 | 41° 18.855 | 16-3 | -70.3945 | 41.4730 | -070° 23.669 | 41° 28.380 | | | | | |

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