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PRESS CONTACT: Janice Plante, jplante@nefmc.org
PRESS CONTACT: Mary Sabo, msabo@mafmc.org

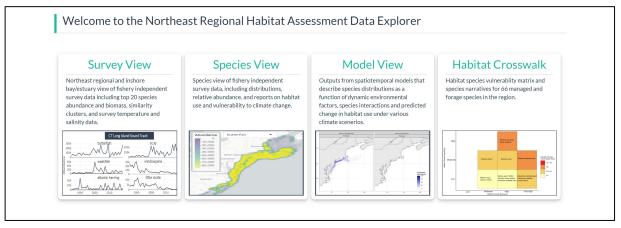
New England and Mid-Atlantic Councils and Partners Launch Habitat Data Explorer; One-Stop Tool Ready for Use

What began five years ago as a commitment to improve fish habitat science has resulted in the creation of a revolutionary tool that allows users to explore information on fish distribution and survey abundance, species life history, essential fish habitat (EFH), fish vulnerability to climate change, and much more – all on one website. Welcome to the Northeast Regional Habitat Assessment Data Explorer.

The Data Explorer was developed as part of the Northeast Regional Marine Fish Habitat Assessment (NRHA), a collaborative, multi-disciplinary effort to describe and characterize estuarine, coastal, and offshore fish habitat distribution, abundance, and quality in the Northeast. Based on a plan approved by NRHA's Steering Committee, a work team spent three years collecting and analyzing data and populating the Data Explorer with information for more than 65 finfish and shellfish species through 2019. New data will be added over time.

Who Should Use the Data Explorer? Everyone!

While stock assessment scientists, researchers, and fishery managers will be the primary users of this comprehensive collection of information, commercial and recreational fishermen will be able to call up maps showing key information about the species they catch. Other stakeholder groups interested in habitat issues, seasonal ocean conditions such as salinity, and fish survey information also should find the site helpful. For example, offshore wind and aquaculture developers can use the tool to identify habitat types and fish distribution within areas being considered for development.



The data-heavy portal takes 15 to 20 seconds to load on the first launch. Subsequent data searches go quickly. Use a desktop computer, laptop, or tablet. The Data Explorer tool, which runs on a <u>R-Shiny</u> application, is not intended for cell phone use. Visit the NRHA Data Explorer <u>website</u> to learn more about the available products and reports.





Survey, Species, and Model Views Plus a Habitat Crosswalk

Below is a quick rundown of the four major categories of products available on the Data Explorer and a few tips for how to navigate the pages to access the information you want. Specific examples of NRHA's products are shown in the winter flounder map below and in two other data runs on the following page.

<u>Survey View</u>: This tab summarizes fishery independent survey data at both a Northeast regionwide scale and in inshore waters at a bay/estuary scale. Specific surveys and year ranges can be selected to display: (1) species abundance and biomass; (2) species that are caught together, which is called a cluster analysis; and (3) salinity and temperature data from selected surveys.

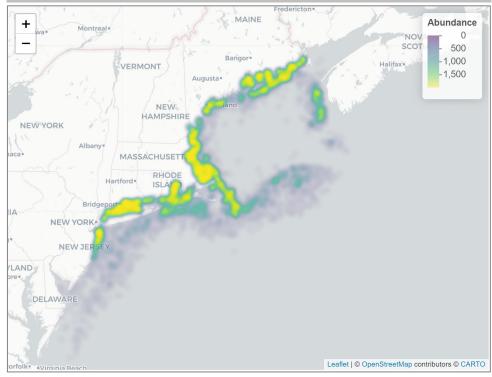
<u>Species View</u>: This view provides a deeper dive into species-specific fishery independent survey data.

Click on the tabs to view a species distribution map, abundance and biomass by year, relative abundance by month and salinity zone, and species reports with life history info, vulnerability to climate change, and EFH designations.

Select your desired location, surveys, and species, and then hit "Run Analysis." Your results will pop up.

Model View: This tab is under development but will include habitat distribution model results when completed.

Winter Flounder Abundance in Numbers of Fish, All Sizes, All Fall Surveys From 1959 Through 2019



 $An example of winter flounder information \ retrieved \ under \ "Species View" \ on \ the \ NRHA \ Data \ Explorer.$

Habitat Crosswalk: This work integrates the outputs from the Northeast Habitat Climate Vulnerability Assessment (HCVA), the Northeast Fish and Shellfish Climate Vulnerability Assessment (FSCVA), and the Atlantic Coastal Fish Habitat Partnership (ACFHP) habitat-species matrix for use in fisheries management. The major objectives were to create a habitat-species vulnerability matrix and develop species narratives for 66 managed and forage species in the region.

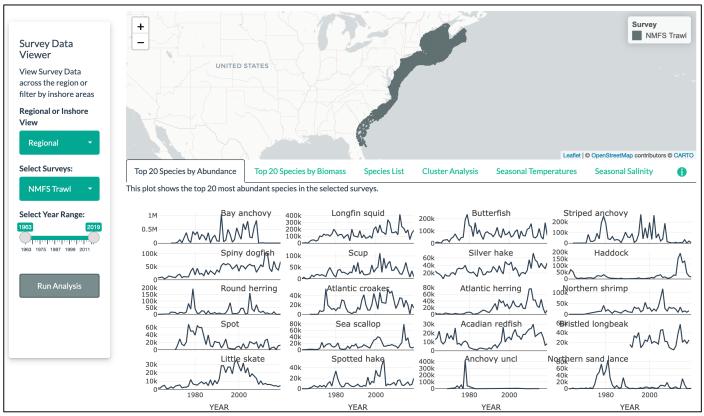
Reports: Be sure to check out the Reports tab, which gives users the ability to download survey metadata. The Reports tab is located on the toolbar at the top of NRHA homepage.



New England Fishery Management Council

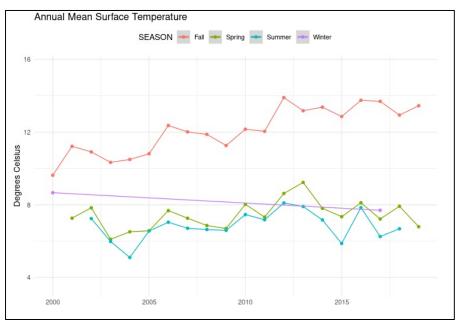


NRHA Data Explorer Survey View of National Marine Fisheries Service (NMFS) Trawl Survey Data From 1963-2019 for Top 20 Species of Abundance



Maine/New Hampshire Trawl Survey 2000-2019 Seasonal Temperatures

The information at right was generated by clicking on the Survey View tab on the NHRA Data Explorer homepage and then selecting: (1) Inshore View in the left column; (2) Maine-New Hampshire Coast under location; (3) ME/NH Inshore Trawl under "Select Surveys"; and (4) 2000-2019 for the year range. After that, click on "Run Analysis."





New England Fishery Management Council



One Stop Shopping for Trawl Surveys: The NRHA Data Explorer hosts information from many Northeast Region trawl and seine surveys, making it an easy launching point for data searches. Here's a list of surveys

included in the Data Explorer. Data can be displayed for one or more surveys by species or resource wide.

What is NRHA: The Northeast Regional Marine Fish Habitat Assessment is a collaborative, multidisciplinary effort to describe and characterize estuarine, coastal, and

region.

offshore fish habitat
distribution, abundance, and quality in the Northeast. The
project aims to align habitat science goals and priorities with
human and financial resources to develop habitat science
products that support an assessment. The NRHA Steering
Committee is composed of leadership from the major habitat
conservation, restoration, and science organizations in the

Stay Tuned! The NRHA team, in conjunction with the New England and Mid-Atlantic Councils, will be developing outreach and communications materials over the fall and winter to help everyone learn how to navigate the Data Explorer and make the most of its extensive repository of information.

A Note From the NRHA Team

"NRHA did not create the data and cannot guarantee its accuracy or its suitability for use for other applications. NRHA encourages proper use and attribution of any datasets summarized on this site. The portal is a data viewer for trawl surveys. The datasets are not available for download."

~ Visit the Mid-Atlantic Council's Northeast Regional Marine Fish Habitat Assessment informational webpage. ~

Select All	Deselect All		Select All Deselect All	
NMFS Bottom Trawl		~	New Jersey Delaware Bay Juvenile Trawl	~
Maine-New Hampshire Inshore Trawl		✓	Delaware River Seine	~
New Hampshire Juv. Estuarine Seine		✓	Delaware Bay Juv. Finfish Trawl	~
Massachusetts Bottom Trawl		/	Delaware 30ft Bottom Trawl	~
Rhode Island Narragansett Bay Trawl		✓	Maryland Bottom Trawl	~
Connecticut Long Island Sound Trawl		/	Maryland Beach Seines	~
NEAMAP Bottom Trawl		/	Maryland Juv. Striped Bass Survey	~
New York Western Long Island Seine		/	North Carolina Pamlico Sound Survey (N195)	✓
New Jersey Ocean Stock Assessment		/	North Carolina Nursery Area Juv. Survey (NC120)	✓
			North Carolina Juvenile Anadromous (N100)	~

NRHA Contacts

Anyone with specific questions about the Northeast Regional Habitat Assessment Data Explorer and its various products should feel free to contact one of the following team members:

- Jessica Coakley, Mid-Atlantic Fishery Management Council jcoakley@mafmc.org
- Michelle Bachman, New England Fishery Management Council mbachman@nefmc.org
- Christopher Haak, Monmouth University/NOAA Fisheries chrishaak@monmouth.edu
- Tori Kentner, Mid-Atlantic Fishery Management Council tkentner@mafmc.org
- Laurel Smith, Northeast Fisheries
 Science Center laurel.smith@noaa.gov