

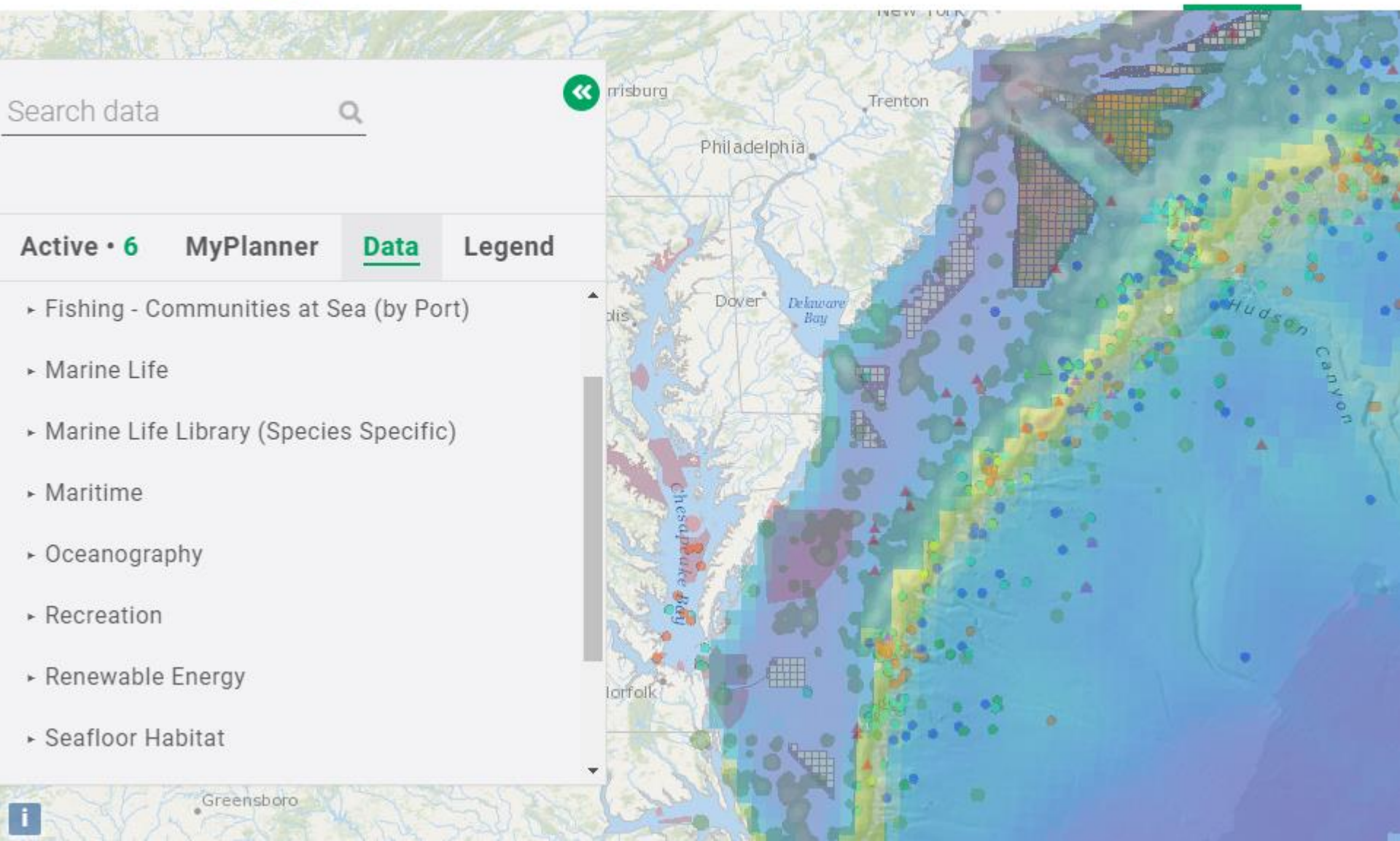
Creating a Virginia Ocean Plan



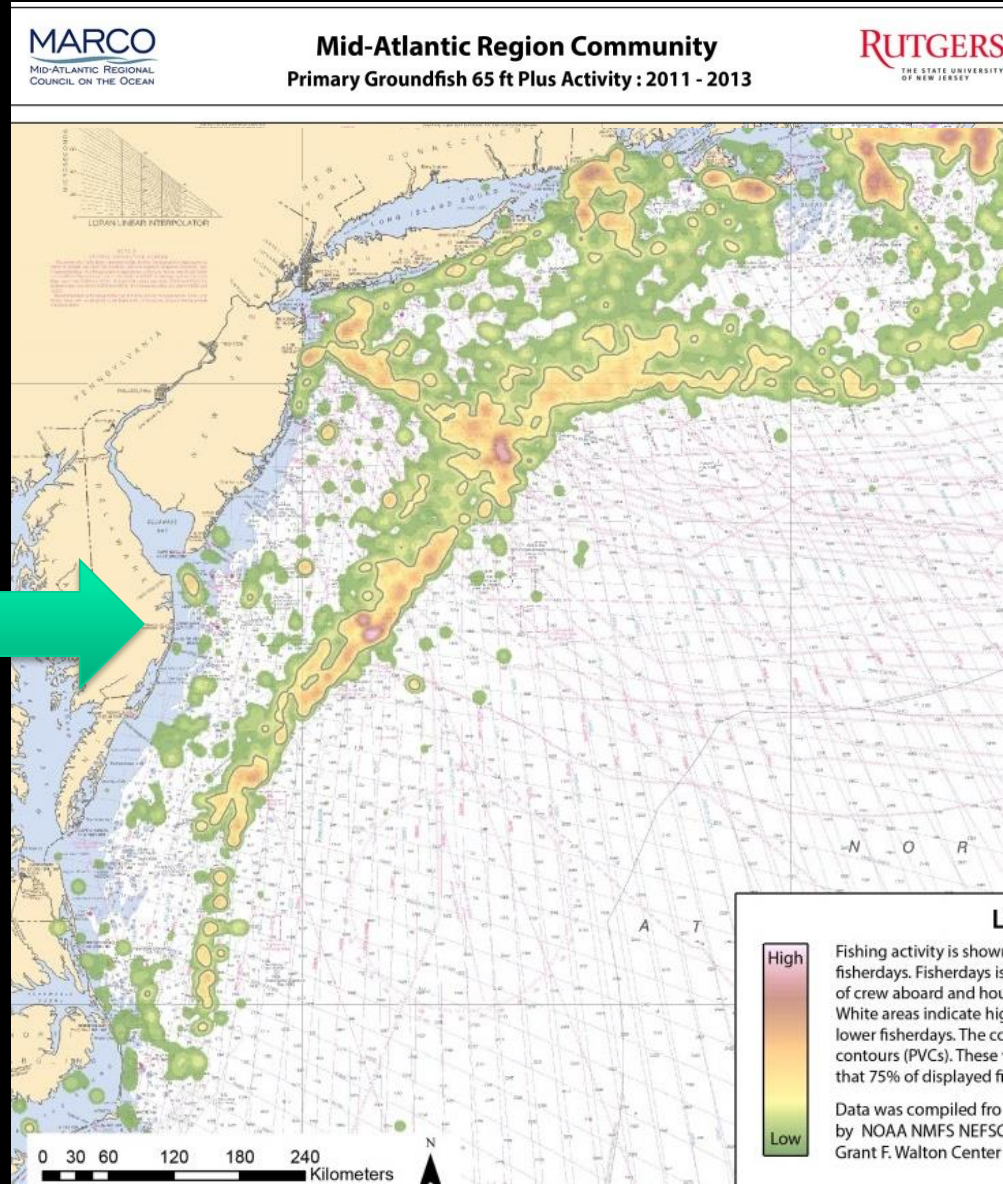
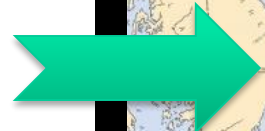
Virginia Coastal Zone
MANAGEMENT PROGRAM



MARCO Ocean Data Portal Provides Basis



Vetted "Communities at Sea" Fishing Maps



2012-15 Whale Data and PAM Grid: Grants to VA Aquarium

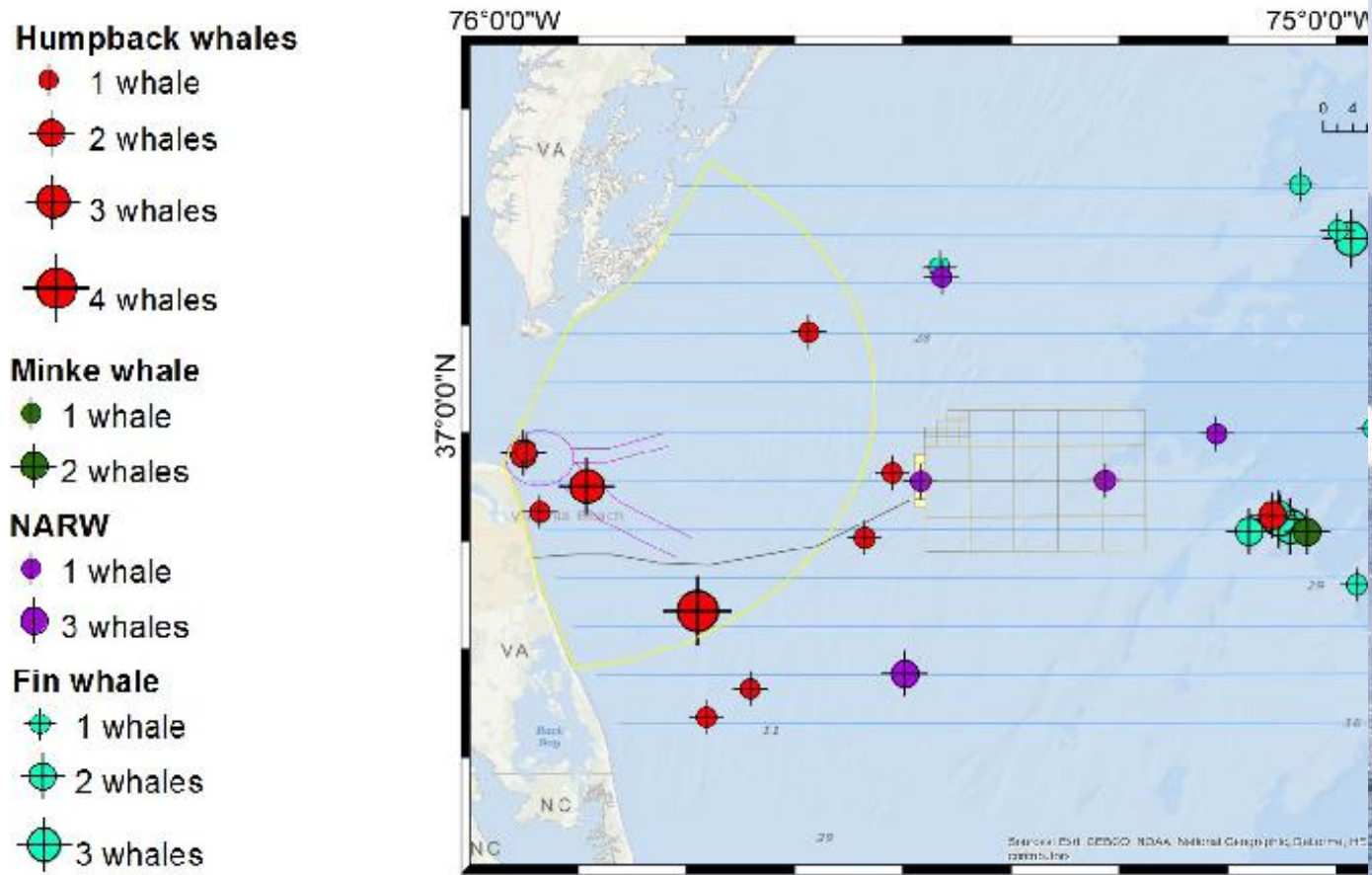


Figure 1. All large whales documented during aerial surveys in the proximity of the Virginia Wind Energy Area (VA WE) 2012 through March 2015. Size of each point reflects groups size.

Aerial surveys were funded under Virginia Coastal Zone Management Grant NA14NOS4190141 Task 95.04



2014 Fisheries Planning for Virginia's Wind Energy Area



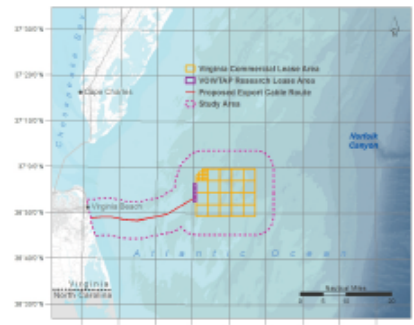
Collaborative Fisheries Planning for Virginia's Offshore Wind Energy Area

Photo of fishing vessel navigating wind farms in Sweden. Distances between turbines in Virginia would be greater than shown.

To prepare for future development of wind energy facilities off the coast of Virginia, the Bureau of Ocean Energy Management (BOEM), Virginia Department of Mines, Minerals, and Energy (DMME), and Virginia Coastal Zone Management (VA CZM) Program are working with the recreational and commercial fishing communities to share information through a collaborative process. Our objectives include developing fine-scale maps of commercial and recreational fishing areas; identifying recommendations to mitigate use conflicts between fishermen and wind energy development; and developing a plan for communicating with fishermen about wind development activities.

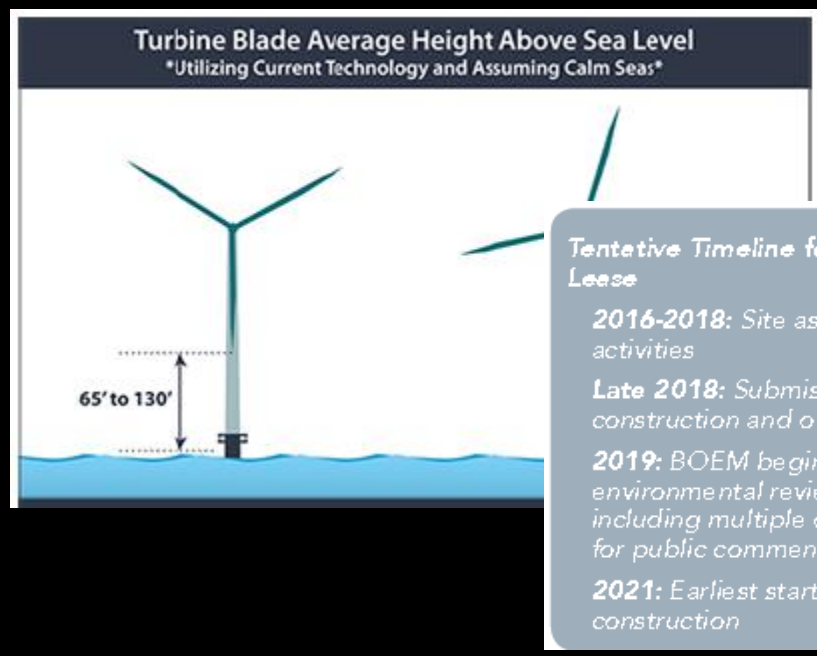
Value for Participating Fishermen

- Your participation will provide regular communication to let you know what to expect as the wind energy projects progress
- You can inform the project team of the best ways to communicate with all fishermen under various circumstances, such as notifications about temporary closures or other messages that need to be communicated during construction and operation
- Your fishing data and other information can help with decisions about some aspects of design, construction, and operation of the commercial wind energy project infrastructure, and construction timing, to reduce conflict with the fishing community during the development of wind energy facilities



Virginia's Wind Energy Area

Virginia's designated offshore commercial wind energy area is 24 miles long and 10 miles wide, extending from Virginia Beach. Technology Advancement Research Lease Area megawatt ocean transmission cable fisheries data in a commercial (yellow) sought, collected, conflicts with offshore. This area is approximately 24 miles long and 10 miles wide.



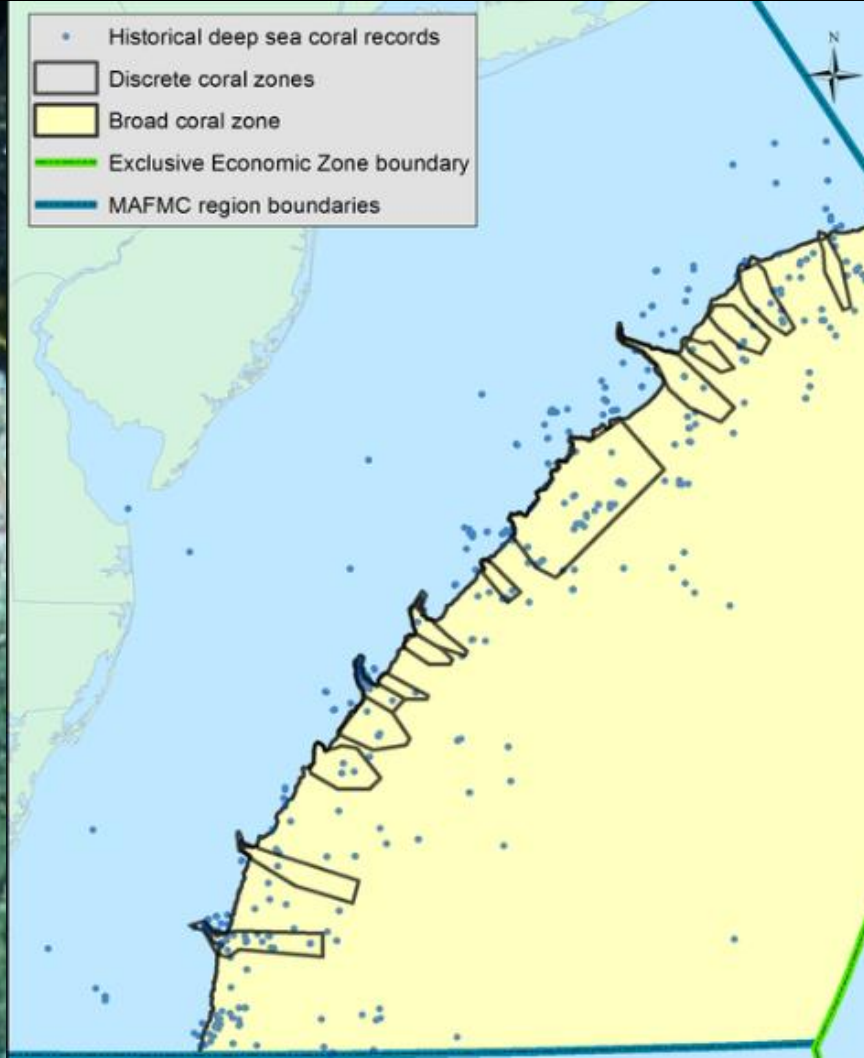
Tentative Timeline for Commercial Lease

- 2016-2018:** Site assessment activities
- Late 2018:** Submission of construction and operations plan
- 2019:** BOEM begins environmental review of the plan, including multiple opportunities for public comments
- 2021:** Earliest start of construction

For more information, please contact:
 Virginia Coastal Zone Management Program, Laura McKey (Laura.McKey@dmme.virginia.gov)
 For points in Virginia Beach, Hampton, or Newport News, Todd Janocki (tjanock@dmme.virginia.gov). For points in other locations, see the website for Fishing Contacts, Jeff Deem (jff.deem2@gmail.com) or Rick Robins (richardrobins@gmail.com), Bureau of Ocean Energy Management, <http://www.boem.gov/Renewable-Energy/>

Mapping Tool	Fisheries Data Description	Primary Data Source	For More Information
MARCO's Ocean Data Portal	"Communities at Sea" heat maps showing commercial fishing effort linked to fishermen's home ports	NOAA VTR and NOAA vessel permit database	portal.mrdatlanticocean.org
Virginia CZM's Coastal GEMS Portal	Locations of general and dominant use for recreational fishing	Participatory mapping (P-GIS) workshops	www.coastalgems.org
NOAA/BOEM fishery exposure analysis	Estimated value of fish commercially harvested from wind energy areas	NOAA VTR, Vessel Monitoring System, and seafood dealer reports	Report expected to be available in summer 2015

2016 Mid-A Fisheries Management Council Protects 38,000 sq. mi. of Corals



2016 (Dec) Mid-Atlantic Ocean Action Plan Approved by Obama Administration



2018 Trump EO 13840 revokes 2010 Obama EO on Regional Ocean Planning

midatlanticocean.org/ocean-planning/mid-atlantic-committee-on-the-ocean/

Hotmail VLC Gmail Virginia Coastal Zo... Mid-Atlantic Ocean... Imported From IE My VCU Health - D... myVRS - Home Ocean



ABOUT ▾ SHARED REGIONAL PRIORITIES ▾ OCEAN PLANNING ▾ DATA PORTAL ▾ NEWS

OCEAN PLANNING

Mid-Atlantic Committee on the Ocean

MACO is a committee established by MARCO to foster collaboration among states, federal agencies, the Mid-Atlantic Fishery Management Council (MAFMC), and federally recognized tribes, and to engage stakeholders. The purpose of MACO is to enhance the vitality of the region's ocean ecosystem and economy through increased communication and collaboration.

MID-ATLANTIC
COMMITTEE
ON THE OCEAN



MARCO creates "MACO" the Mid-Atlantic Committee on the Ocean to re-engage federal agencies, tribes and fishery management council

FY 2018 CZM Grant to VCU in Support of GLDs for Federal Consistency Purposes

VIRGINIA'S COMMERCIAL FISHING: BEYOND THE BAY

A report on the value of Virginia's Marine Fisheries

Photo by Anthony Caporin / Virginia Sea Grant



Virginia Coastal Zone
MANAGEMENT PROGRAM

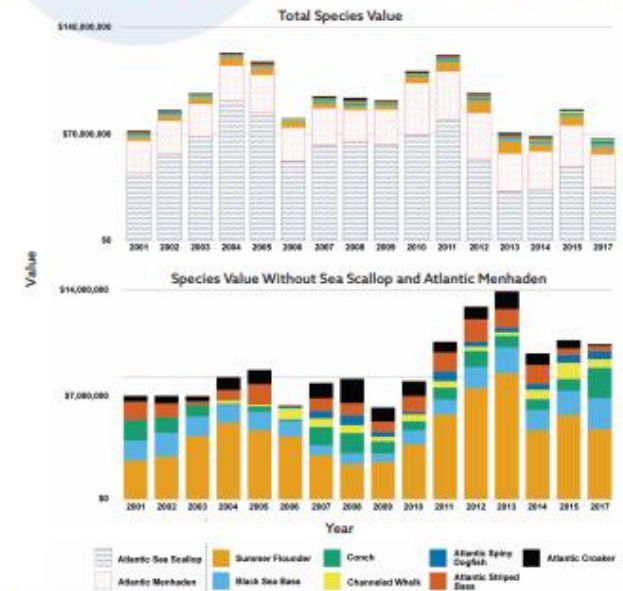


February 2021

THE VALUE OF COMMERCIALY HARVESTED FISH LANDED IN VIRGINIA

Watermen travel from just a few miles offshore to hundreds of miles to New England to fish before heading back to their home ports in Virginia. This section summarizes landing information on some of Virginia's most important commercial species caught beyond the Chesapeake Bay, from the mean low water (MLW) mark to 200 nautical miles offshore in the Atlantic Ocean. These data were derived from both the Virginia Marine Resources Commission and NOAA landings, removing those values associated with the Chesapeake Bay to arrive at the value of species caught in the Atlantic. The graphs below show the combined value of some of Virginia's most commercially important species caught in the Atlantic Ocean from 2001-2015, and 2017. The second graph shows the same data as the first, but removing sea scallop and Atlantic menhaden to show data for other species in greater detail.

THE VALUE OF VIRGINIA'S MOST COMMERCIALY IMPORTANT ATLANTIC-CAUGHT SPECIES

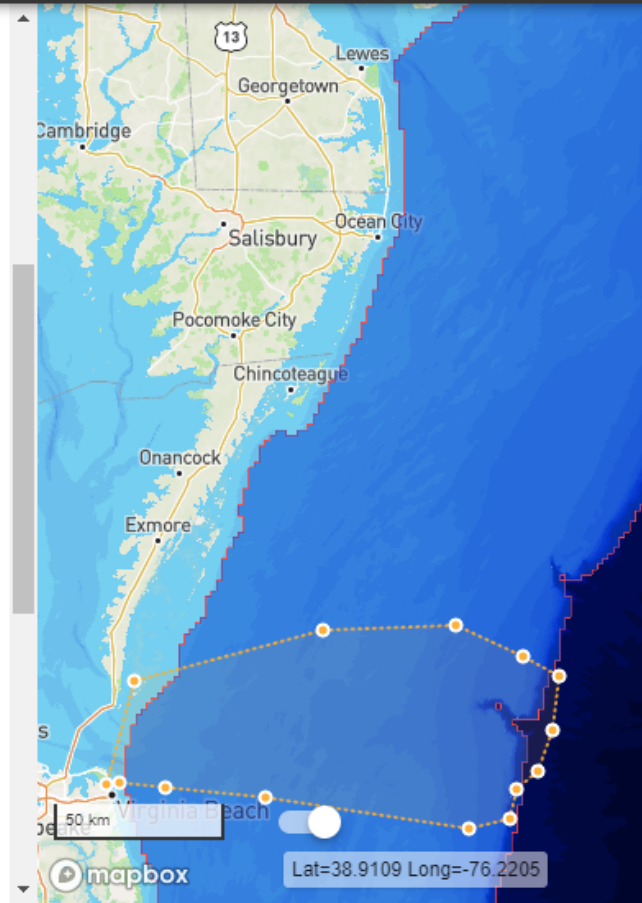
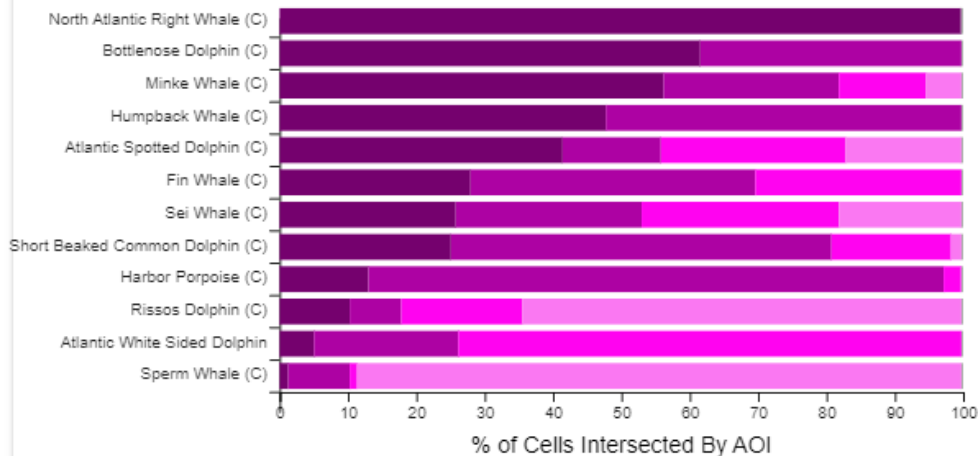


2019-20 CZM Grant to TNC for Wind Siting Tool

SUMMARY ALL MAMMAL DATA ABUNDANCE BY MONTH

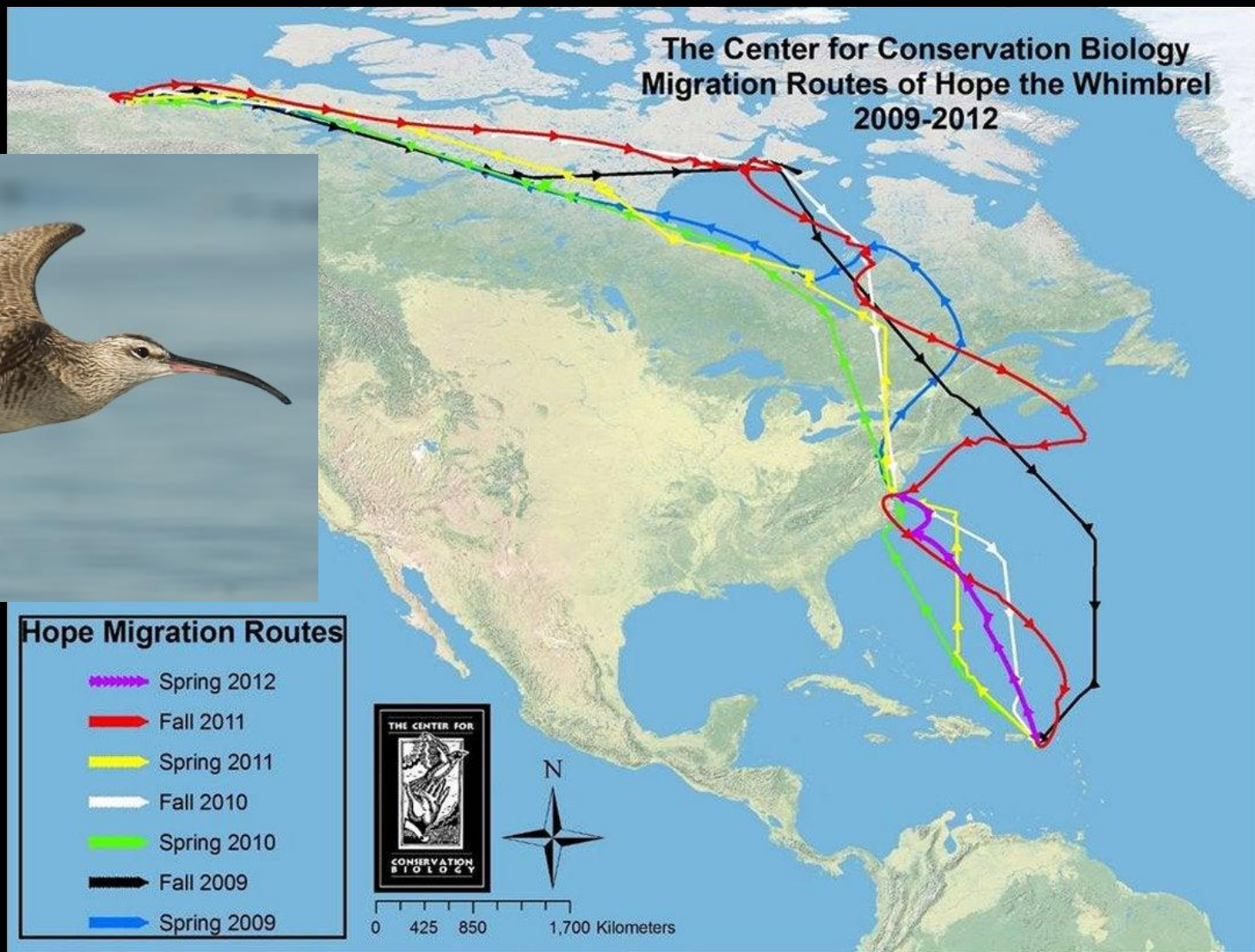
All Marine Mammal Species

Persistence Percentile



Created a tool that allows you to draw a polygon and receive reports of marine life relative abundance in that area.

2019 CZM Grant to CCB for Analyzing Whimbrel Migration Data



2020 Dominion Installs First Two Turbines 2024-26 Construction Begins for 2600 MW



Coastal Virginia
Offshore Wind

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ABOUT

About Coastal Virginia Offshore Wind

2021-25 Will Be 3rd Section 309 5-Year CZM Ocean Strategy: VA Ocean Plan

Oct 21 meeting (state agencies & contractors)

- Review plan elements
- Establish structure
 - Set up work groups?
 - Set meeting schedule
- Review year 1

grants

- CPC - \$60k
- VCU - \$44k
- DWR - \$50k
- MARCO - \$29k
- Total = \$183k



Policy Elements:

- Additional area for more turbines
- Marine Mammal/Sea Turtle Conservation
- Ocean acidification
- Offshore aquaculture areas
- Others?