

# EEA Habitat Working Group on Offshore Wind Energy

January 10, 2022  
1:00 – 3:00 PM



# Zoom Functions

Zoom Meeting

Talking:

Meeting Topic:

Lisa Engler's Zoom Meeting

Host:

Lisa Engler

Passcode:

E8t7Px

Numeric Passcode:

996952

(Telephone/Room Systems)

Invite Link:

<https://us02web.zoom.us/j/88997481001?pwd=RnZhM2p6...>

[Copy Link](#)

Participant ID:

404721

Join Audio

Computer Audio Connected

Share Screen

Invite Others

Mute

Start Video

Security

Participants

Chat

Share Screen

Record

More

End

Chat

To: Everyone

File

Type message here...

# Meeting Protocols

- Meeting will be recorded for note taking purposes
- Add your name and affiliation to the chat box
- Raise hand to speak
- Remain muted unless it is your turn to speak
- Use chat function to post questions for presenters
- Constructively receive and provide input on discussion topics
- Respectfully acknowledge and articulate differences of opinion or perspective

# Agenda

- 1:00 Welcome and Introductions and state updates
- 1:15 Offshore Wind Developer Updates:
  - Vineyard Wind
  - Equinor
  - Mayflower
  - Ørsted
- 2:00 Overview of Passive Acoustic Monitoring Activities (Nils Bolgen, MassCEC))
- 2:20 Regional Wildlife Science Entity (RWSE) (Emily Shumchenia, RWSE)
  - General update
  - Marine mammal aerial survey
- 2:40 Announcements/Updates (All)
- 3:00 Adjourn



Thank you



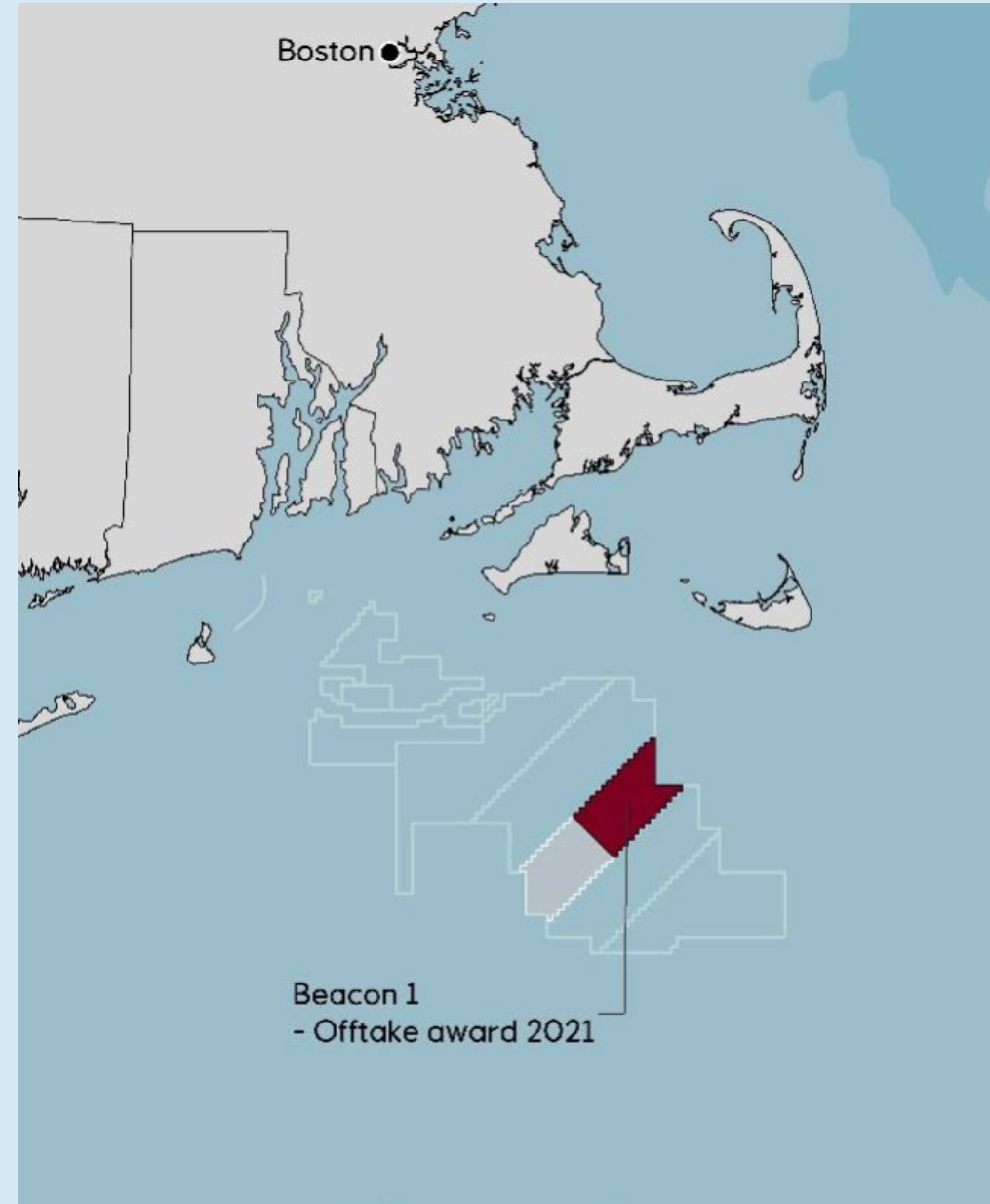
# Beacon Wind

EEA Habitat Working Group  
January 10, 2022



## Beacon Wind | Agenda

- **Beacon Wind Timeline**
- **Status update on Survey Program**
- **Status update on Monitoring Program**
- **Metocean Buoy Deployment**
- **Questions?**



## Beacon Wind | Time line

2019 – Lease Acquired

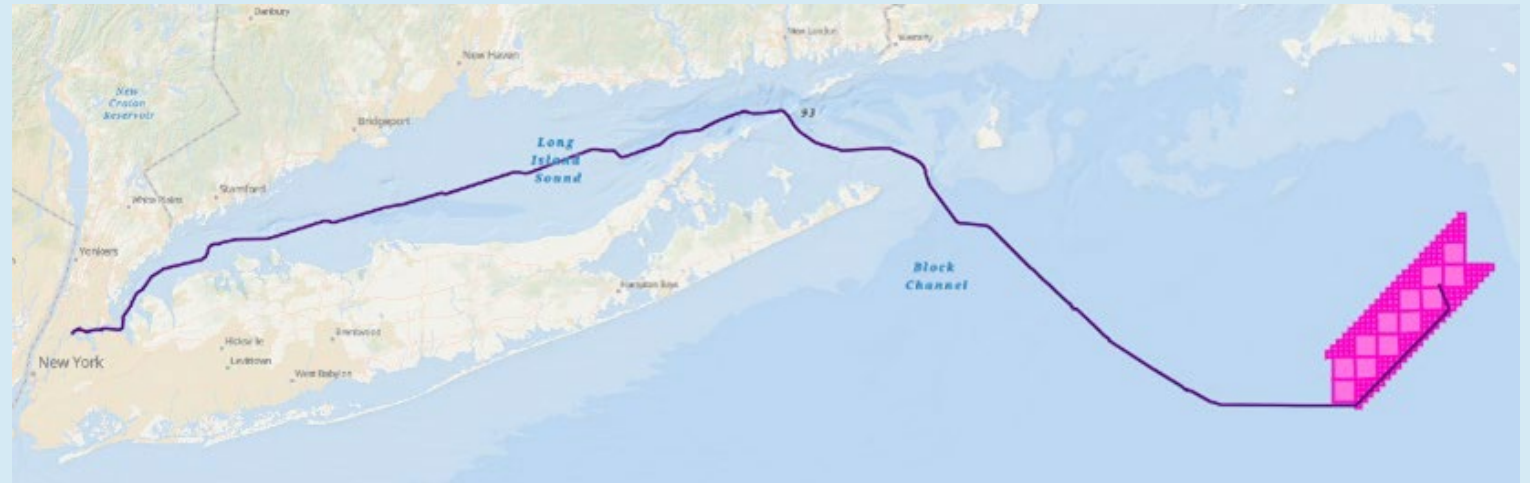
2020 – Aerial Wildlife and  
Marine Survey  
Commencement

2021 – Deployment of  
Metocean Buoys

2022 – Federal & State  
Permit Submission

2024 – Permits Approved

2025 – Construction and  
Fabrication





# Beacon Wind | Survey Program Update



**Stril Explorer**  
Beacon ECR  
geotechnical survey  
Completed  
December 2021



**Danielle Miller**  
Beacon ECR  
geotechnical  
FLO Bruce Bannick  
Completed  
January 2022



**Saentis**  
Beacon Wind Lease  
Area geotechnical  
Projected Completion –  
April 2022



**Dina Polaris**  
Beacon Wind Lease  
Area geotechnical  
FLO David Monohan  
Projected Completion  
April 2022



**Deep Helder**  
Beacon ECR HRG  
FLO Maxwell Hall  
Projected Completion –  
January 2022

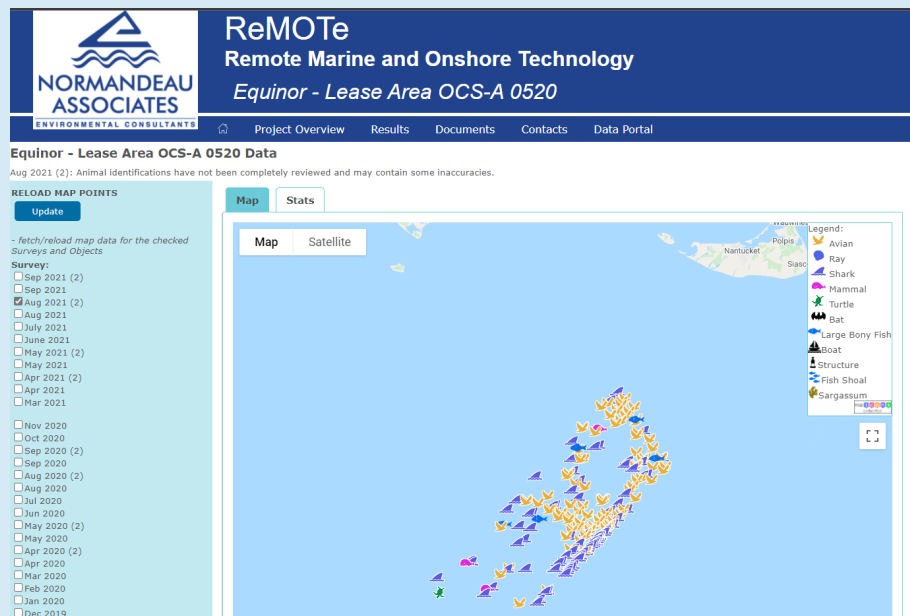


**F/V Karoline Marie**  
Captain Thomas Hill  
Scout support as  
needed

# Beacon Wind | Monitoring Program Update

## High-resolution aerial surveys Final flight October 2021

[https://remote.normandeau.com/eqn22\\_overview.php](https://remote.normandeau.com/eqn22_overview.php)



## Beacon Wind Lease Area Facilities

### 1. Metocean Facilities

Deployed November 2021 for 2 years and included the deployment of acoustic tag receivers for birds/bats. Data will be captured should species fly in proximity to the buoys.

### 2. Highly Migratory Species Sensors

In partnership with the NEAq, 13 seabed-mounted acoustic receivers were deployed in the Lease Area. In December 2021, those receivers were recovered and data is now being assessed.



# Beacon Wind | Metocean Buoy Deployment

2 Meteorological and Oceanographic Monitoring Buoys

2 Current Moorings

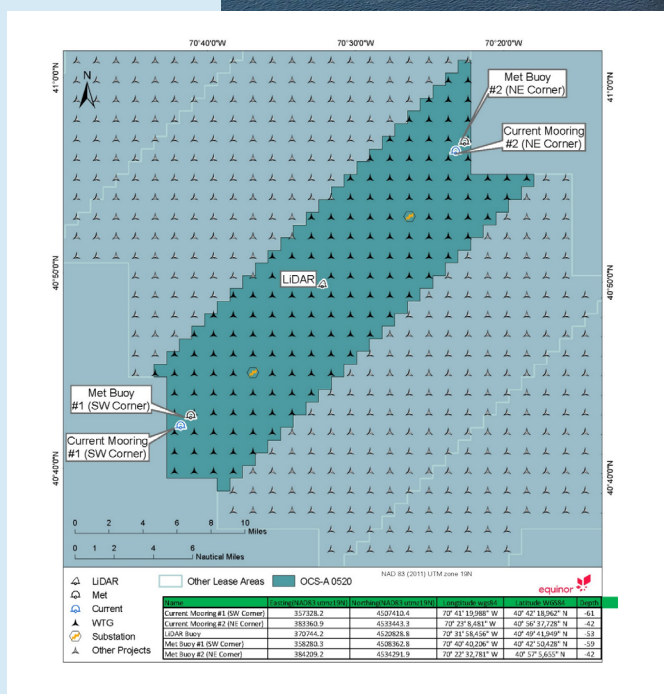
1 LiDAR Buoy

Deployed November 2021

2-year deployment

Position Coordinates will be updated to the LNM following future 6-month maintenance visits as necessary

PATON approved through USCG





equinor

# SHAPING THE FUTURE OF ENERGY

Thank you for your attention. Questions?

Michelle Fogarty  
MFOG@equinor.com

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# Ørsted Offshore North America

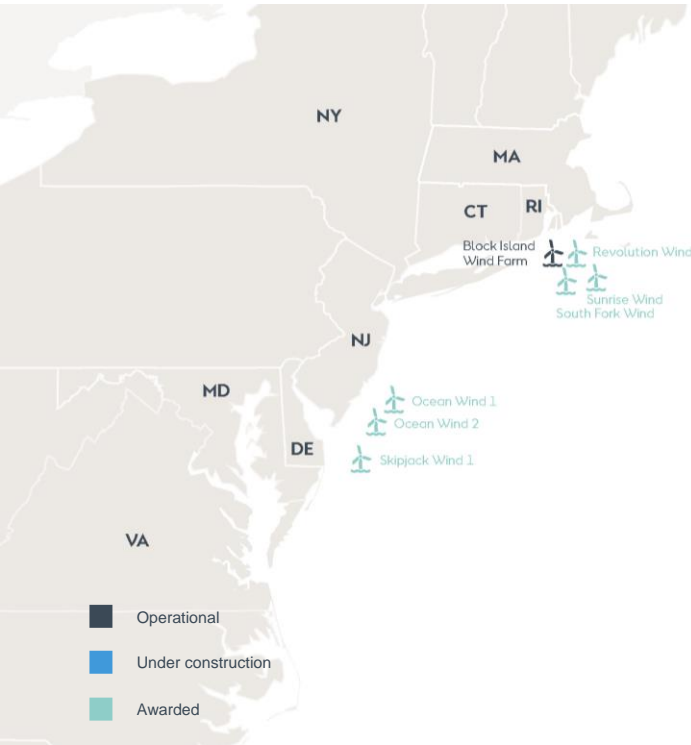
Northeast Program Update



**MA EEA Habitat Working Group**  
**Meeting on Offshore Wind**  
January 2022

# Ørsted Offshore North America portfolio

Awarded over 4,000 MW of offshore capacity on the East coast



## In Operation

**Block Island Wind Farm (BIWF):** 30MW

## Awarded

**Revolution Wind (REV):** 50/50 JV w/ Eversource, 704MW (400MW to RI, 304MW to CT)

**South Fork Wind (SFW):** 50/50 JV w/ Eversource, 132MW

**Sunrise Wind (SRW):** 50/50 JV w/ Eversource, approximately 924MW

**Ocean Wind 1 (OCW1):** 75/25 JV with PSEG, 1,100MW

**Ocean Wind 2 (OCW2):** 1,148MW

**Skipjack Wind 1 (SJW1):** 120MW

**Skipjack Wind 2 (SJW2):** 846MW

# Orsted Northeast Program 50/50 JV with Eversource

## South Fork

- Lease Area OCS-A 0517
- Deliver power to the East Hampton, NY
- NY Article VII approved March 2021
- COP Approval expected January 18, 2022

## Revolution

- Lease Area OCS-A 0486
- Interconnect to the existing Davisville Substation, RI
- RI EFSB Hearings underway
- RI CRMC and RI DEM permit applications under review
- DEIS July 2022, FEIS March 2023

## Sunrise

- Lease Area OCS-A 0487
- Proposed interconnection at Holbrook Substation, NY
- NY Article VII Settlement meetings underway
- DEIS October 2022, FEIS July 2023



10 January  
2022

# Northeast Program Update

## FISHERIES SURVEYS

- **SFW (underway)**
  - Beam Trawl
  - Gillnet Survey
  - Fish Pot Survey
  - Ventless Trap Survey
- **REV/SRW (mobilizing)**
  - Bottom Trawl Survey
- **REV (planned)**
  - Ventless Trap Survey

## ACOUSTIC TELEMETRY SURVEYS

- Highly Migratory Species (SFW/REV/SRW-underway)
- Export Cable (SFW-underway/SRW-planned)

## BENTHIC SURVEYS (planned)

- Soft and Hard Bottom Habitats (SFW/REV)
- Soft Bottom Habitats (SRW-plan still under review)



# Thank you

**Melanie Gearon**

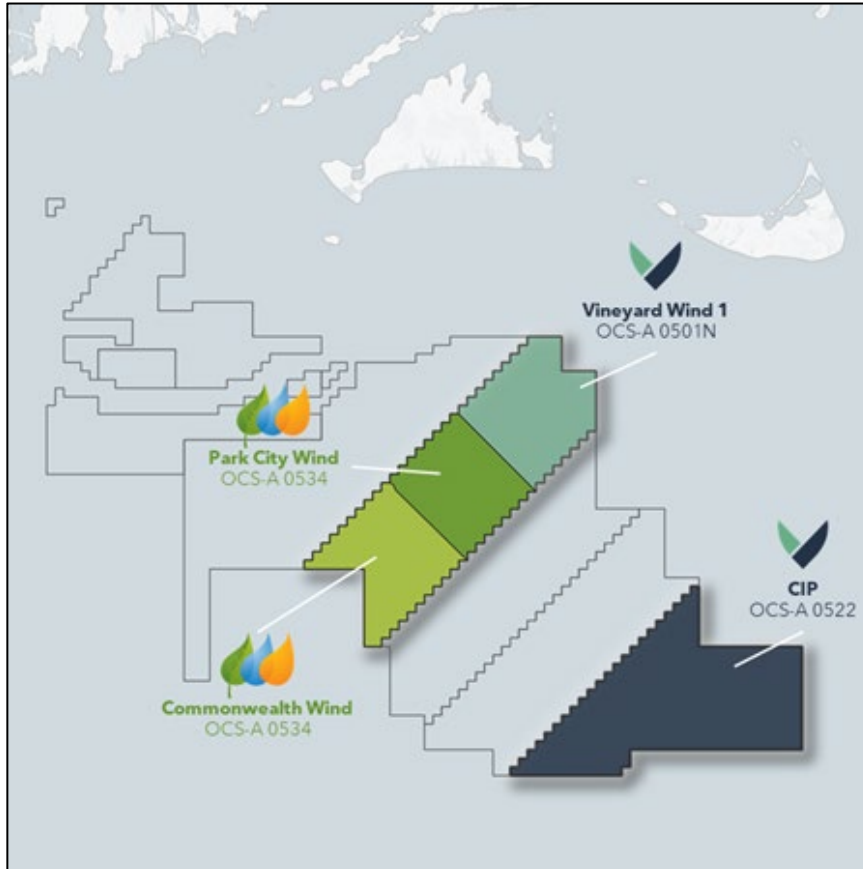
*Northeast Program Permitting Manager*

*[melge@orsted.com](mailto:melge@orsted.com)*

**Ørsted**



# Vineyard Wind Ownership Transition



## Overview

- Avangrid Renewables and Copenhagen Infrastructure Partners are restructuring their 50/50 Vineyard Wind joint venture
- Vineyard Wind 1 will remain a 50/50 joint venture between the two companies
- Lease Area OCS-A 534, containing Park City Wind and Commonwealth Wind, will be owned by Avangrid Renewables
- Lease Area OCS-A 522 will be owned by Copenhagen Infrastructure Partners



# Massachusetts Habitat Working Group

*Lease Area OCS-A 0534 Update*

January 10, 2022

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# New England Wind

## Federal Permitting

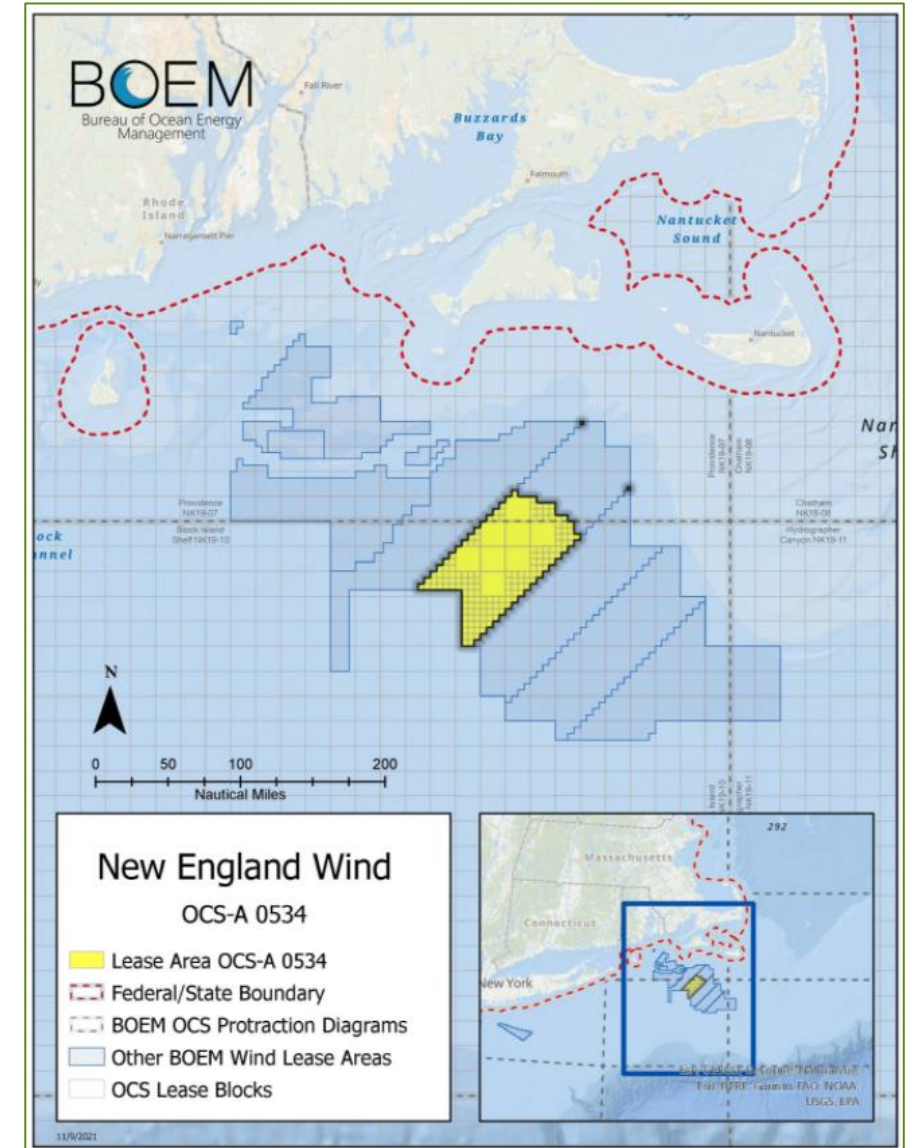
### New England Wind COP

New England Wind (formerly Vineyard Wind South) consists of two phases.

- Phase 1: Park City Wind (804 MW), which is located immediately southwest of Vineyard Wind 1.
- Phase 2: Commonwealth Wind (1,232 MW), which is located southwest of Phase 1.

Recent Public Comment period occurred Nov – Dec 2021

Completed Steps	Pending Steps
COP received (July 2, 2020)	Scoping report published (pending)
NOI published (June 30, 2021; BOEM-2021-0047)	Draft EIS published (pending)
Scoping/comment period ends (July 30, 2021)	Public comment period for the Draft EIS ends (pending)
Notice for additional scoping published (November 22, 2021; BOEM-2021-0047)	Final EIS published (pending)



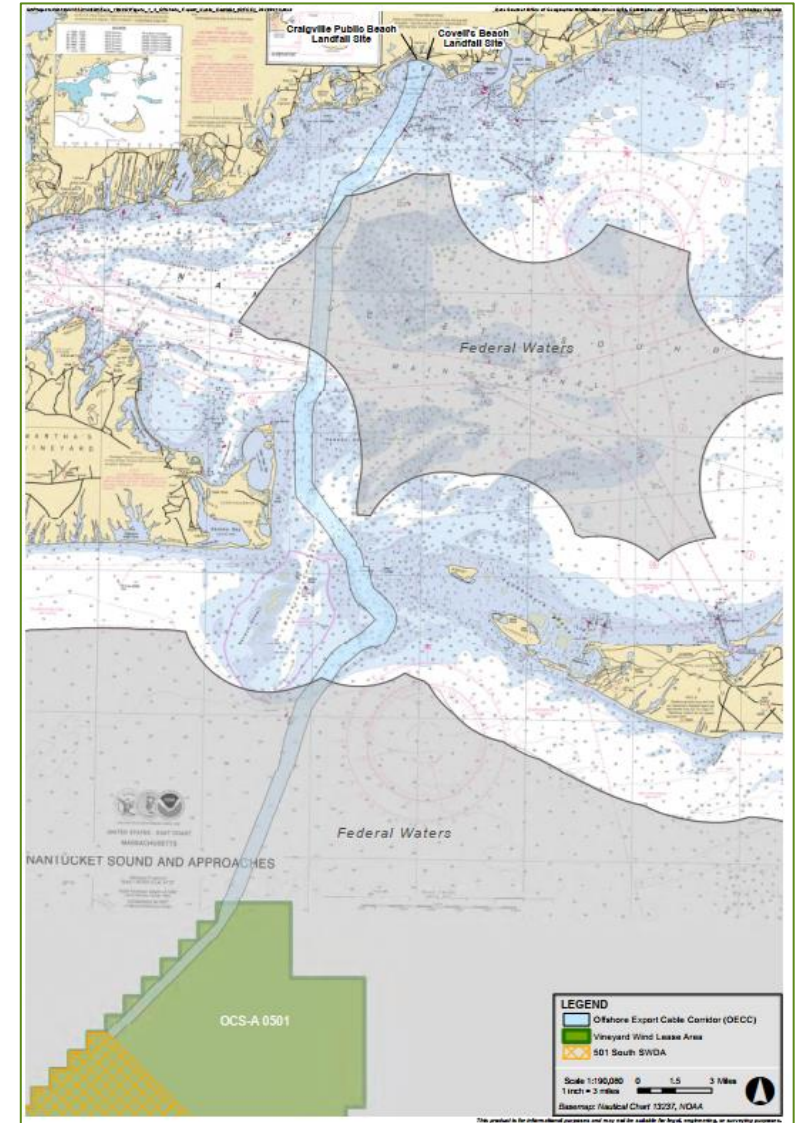


# New England Wind

## Massachusetts State Permitting

### Overview

- New England Wind 1 Connector
  - Scope of the review: New England Wind's Phase 1 Project (Park City Wind) offshore export cable located in state waters and onshore infrastructure in Massachusetts
- MA Environmental Policy Act (MEPA) review underway
  - MEPA certificate anticipated Q1 2022
- Energy Facilities Siting Board review underway
  - EFSB petition filed May 28, 2020
  - Docket #EFSB 20-01
- State permitting follows MEPA



# New England Wind

## Research Partnerships

### Overview

#### Connecticut's Initiative on Environmental Research of Offshore Wind

- **Project Partner:** UConn Department of Marine Sciences
- **Commitment:** \$2.5 million in funding to support fisheries research and education to improve the understanding of environmental impacts from offshore wind.

#### Offshore Wind Protected Marine Species Mitigation Fund

- **Project Partner:** Mystic Aquarium
- **Commitment:** \$2.5 million in funding to better understand potential impacts of underwater noise generated by offshore wind farms on marine life.

This partnership will also work to advance understanding of biodiversity modifications pre- and post- construction, capturing the “artificial reef” affect.

# Passive Acoustic Monitoring for Whales



## Update for Mass. Habitat Working Group

Nils Bolgen, Program Director  
January 10, 2022



# Background



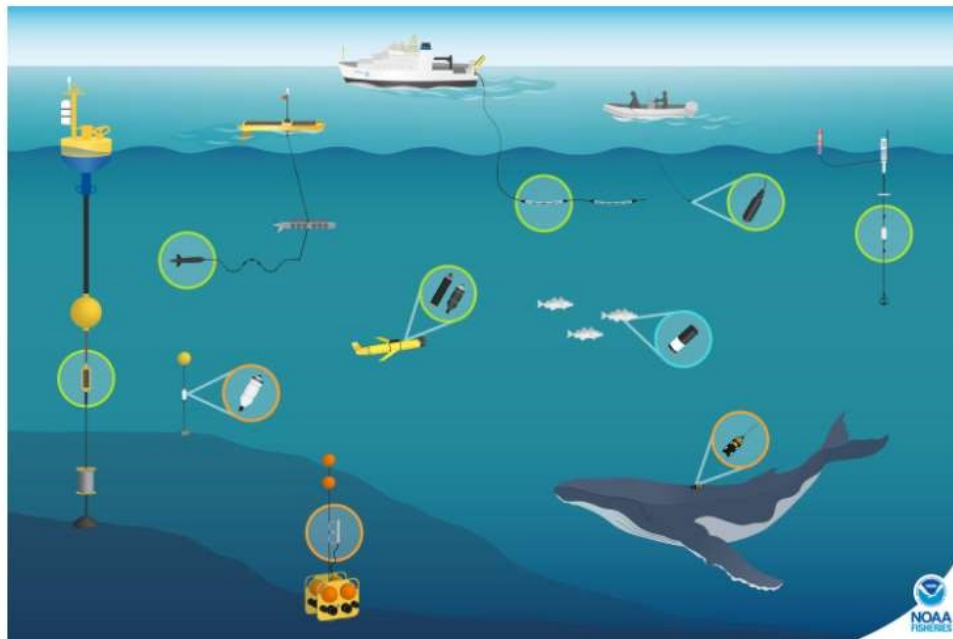
[Find A Species](#) [Fishing & Seafood](#) [Protecting Marine Life](#) [Environment](#) [Regions](#) [Resources & Services](#) [About Us](#)

ENDANGERED SPECIES CONSERVATION

## Passive Acoustic Research in the Atlantic Ocean

We use innovative passive acoustic technologies to study the behavior, movements and distribution of marine animals and their contribution to soundscape ecology. We also evaluate how man-made sounds affect marine animals.

[New England/Mid-Atlantic](#)



NOAA Fisheries studies marine animals by using a variety of technologies to record underwater sounds, including

### More Information

- > [Passive Acoustic Cetacean Map](#)
- > [Sounds in the Ocean](#)
- > [Passive Acoustic Research Staff](#)
- > [Past Members of Our Staff](#)
- > [Passive Acoustic Staff Publications](#)
- > [Passive Acoustic Group News & Media](#)
- > [Protected Species Research in the Northeast](#)
- > [Passive Acoustics Research Group Outreach](#)

### Recent News

#### FEATURE STORY

[High School Students Bring Seafood to Low-Income Consumers](#)





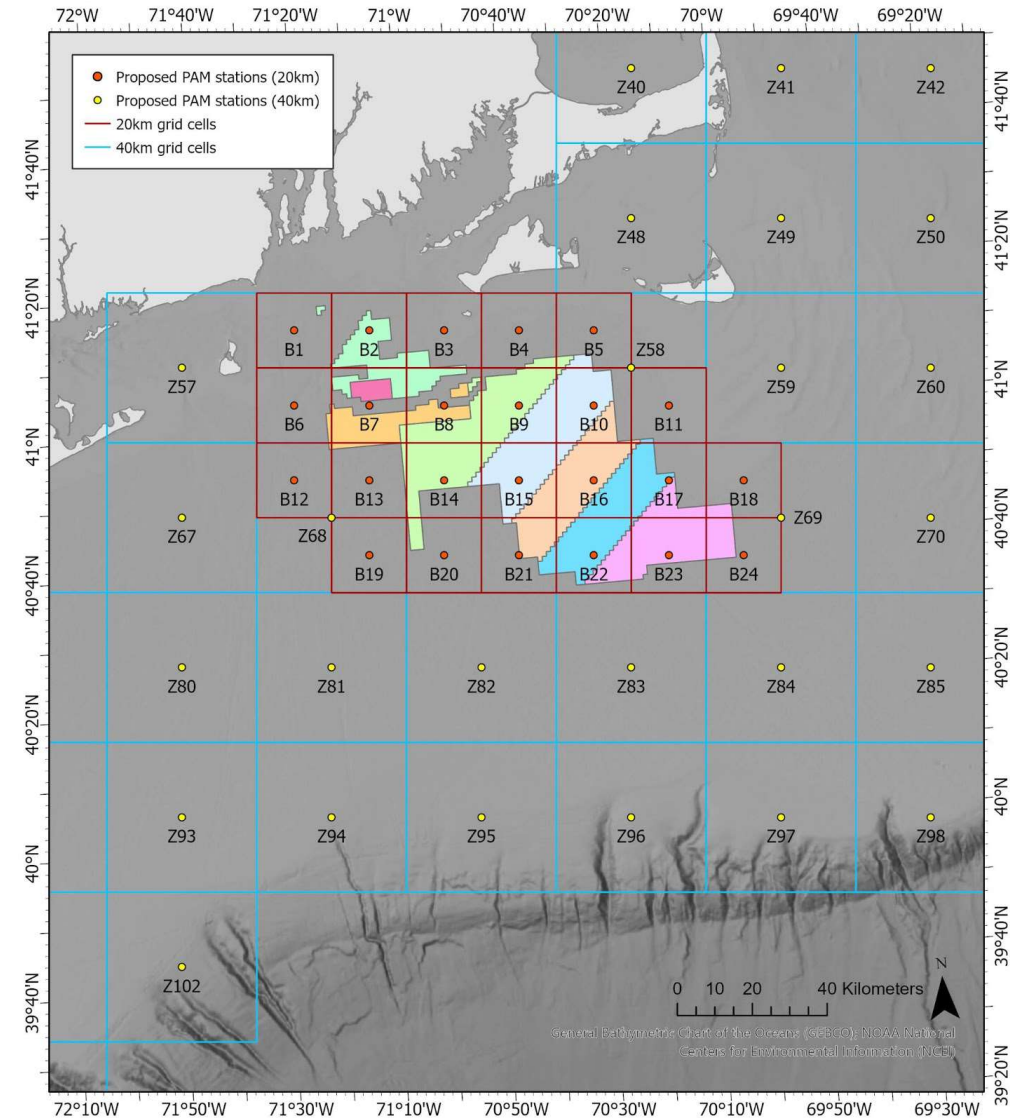
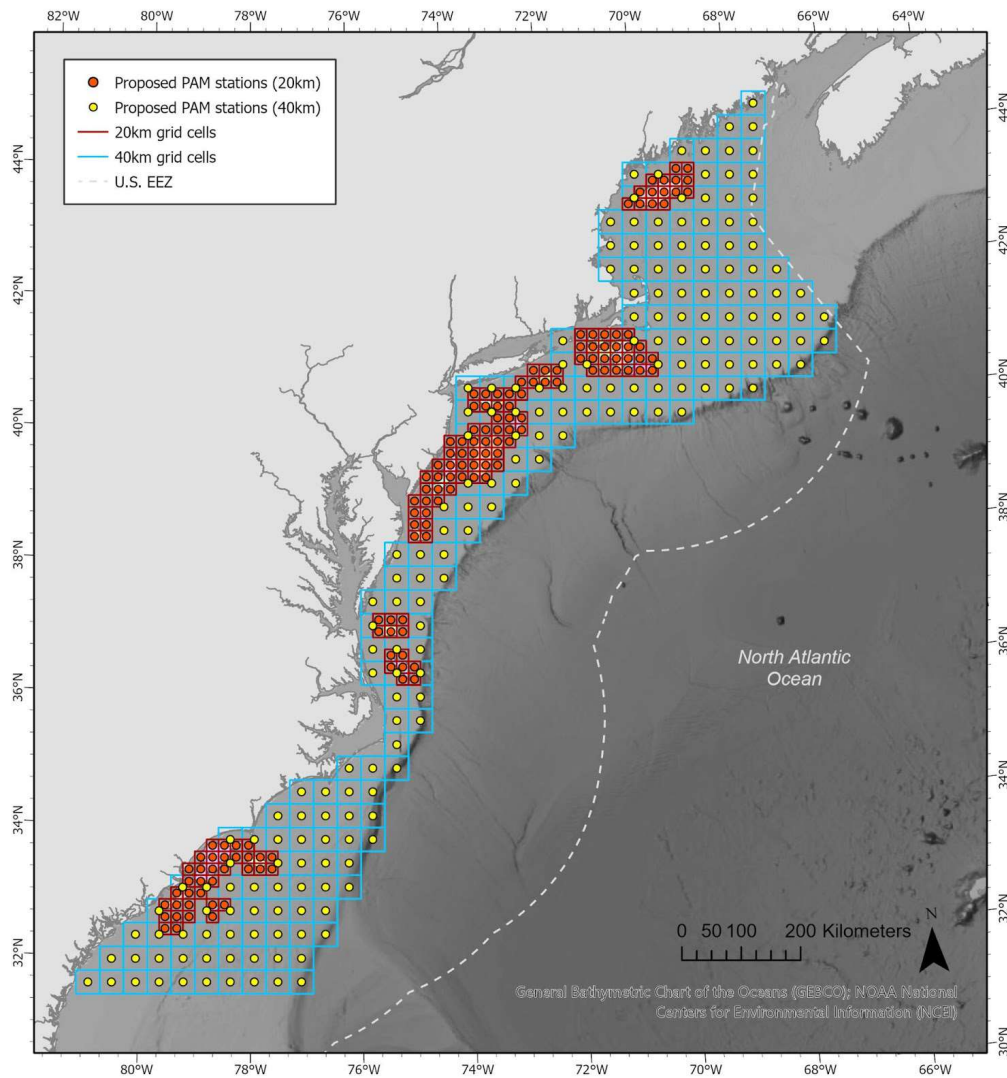
## Updates on recent PAM activities: events

- **PAM BOEM –NOAA Workshop #1:** June 1 & 2 2021 -- exploring a regional monitoring approach
- **PAM State-Federal Deployment Group:** July 2021 & on-going monthly: coordinating to deploy PAM detectors from various funding sources in the near term
- **PAM BOEM-NOAA Workshop #2:** Planning team includes developers and states; focus on lessons from other large scale PAM efforts elsewhere; current and near-term PAM deployments and questions such can answer; data management, consistency, and archiving; longer-term approaches. **Early March 2022**

*Slide credit: Emily Shumchenia, RWSE*

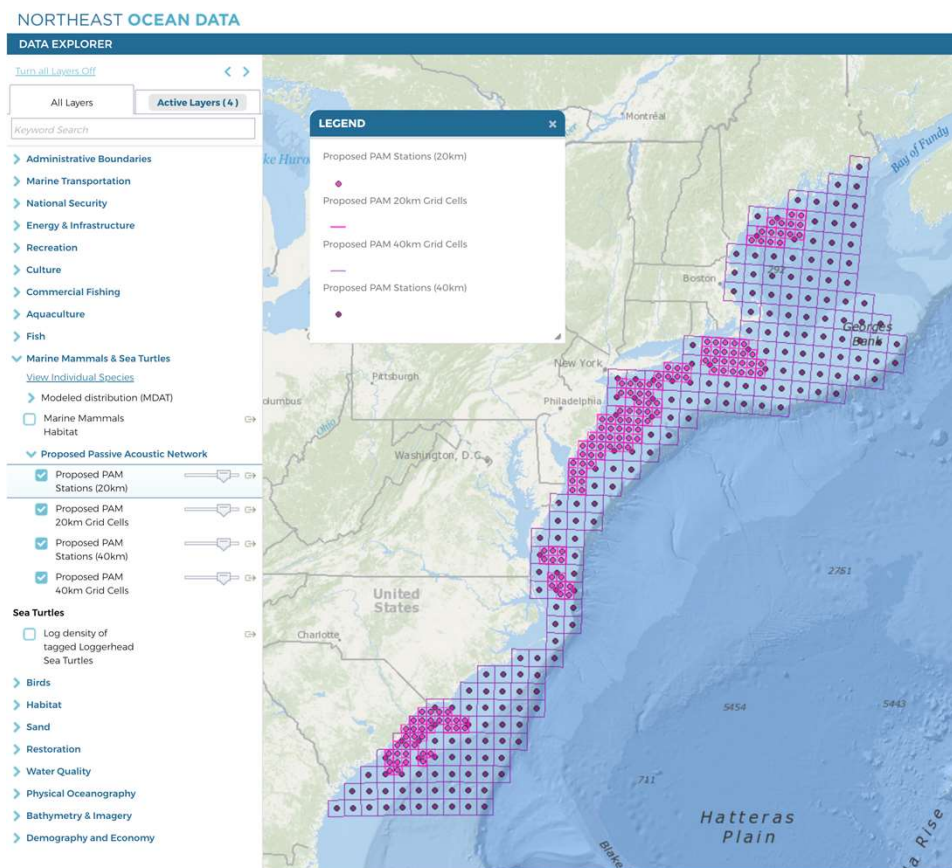


# Planning





# Updates on recent PAM activities: data



**RWSE is supporting discussions and planning for regional Passive Acoustic Monitoring**

**Proposed regional PAM grid on regional data Portals**

- Interactive maps
- Download

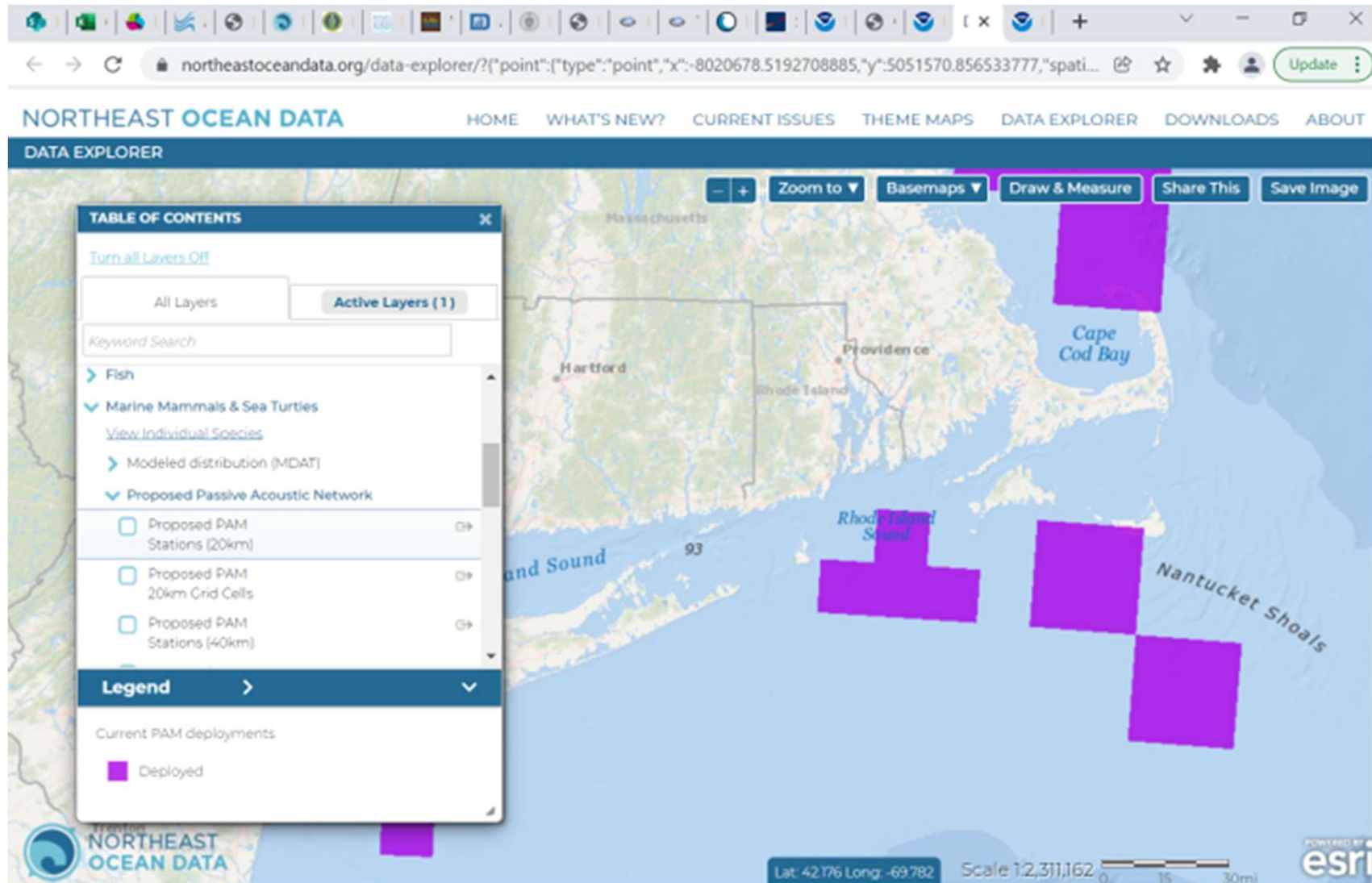
[www.NortheastOceanData.org](http://www.NortheastOceanData.org)

[Portal.MidAtlanticOcean.org](http://Portal.MidAtlanticOcean.org)

*Slide credit: Emily Shumchenia, RWSE*



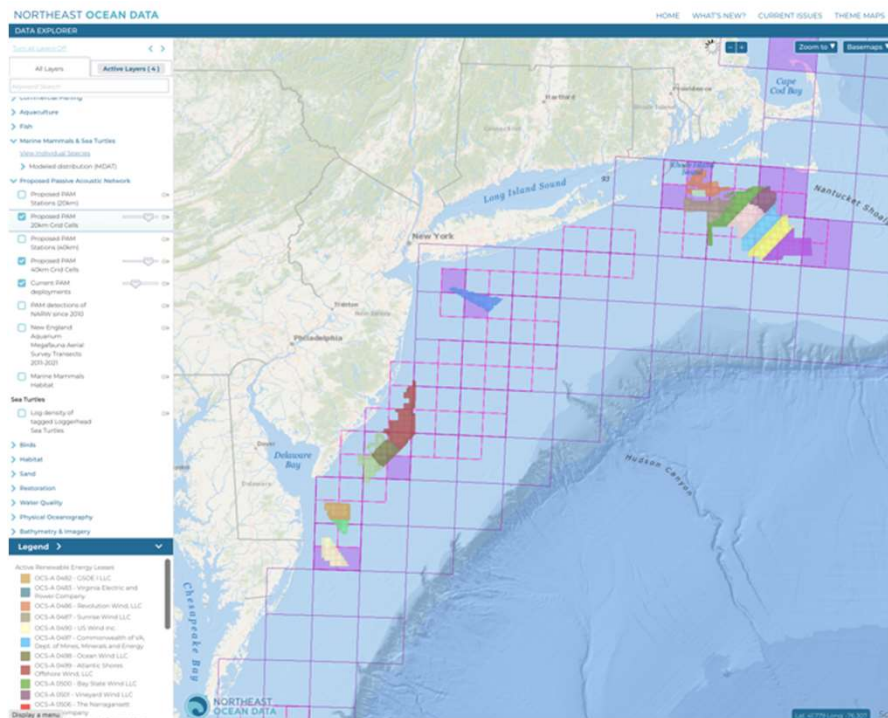
# Current Deployments







# Updates on recent PAM activities: Duke Project WOW



- 15 institutions, includes RWSE
- Proposed PAM deployments in NY Bight and MA/RI WEAs, likely not until 2023
- Detailed work plan still being negotiated between Duke and DOE
- First year of project (~2022) is a planning year
- <https://offshorewind.env.duke.edu/>

*Slide credit: Emily Shumchenia, RWSE*

# Discussion

- How to build out the network?
- Coordination and integration of platforms (e.g. fixed and mobile; aerial and acoustic)
- Data report-out, e.g. format
- Data access and uses
  - Real-time
  - Analysis
- Innovation
  - NOWRDC Solicitation: <https://nationaloffshorewind.org/solicitations/>
  - MassCEC AmplifyMass: <https://www.masscec.com/amplifymass>

# THANK YOU

Nils Bolgen  
MassCEC  
NBolgen@MassCEC.com



Source: NEAq quarterly report, Oct. 2021. Right whale Catalog 4546 and 4360 travelling together during the October 3, 2021 aerial survey. Right whale photos taken under NOAA Permit 19674.