


# EEA Fisheries Working Group on Offshore Wind Energy



June 14, 2021

# Zoom Functions

Zoom Meeting



Talking:

Meeting Topic:

Lisa Engler's Zoom Meeting

Host:

Lisa Engler

Passcode:

E8t7Px

Numeric Passcode:

996952

(Telephone/Room Systems)

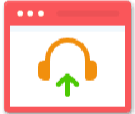
Invite Link:

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

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

- 2:00 Welcome and Introductions
- 2:10 DRAFT Fisheries Working Group Terms of Reference
- 2:20 Pilot Regional Fisheries Studies: Plan for future meetings
- 2:30 Fishing Industry Updates
- 2:45 Offshore Wind Developer Updates:
  - Vineyard Wind
  - Equinor
  - Mayflower
  - Ørsted
- 3:15 South Fork Wind Economic Impact Assessment
- 3:30 South Fork Proposed Fisheries Mitigation Plan
- 4:00 Other Announcements/Updates
- 4:25 Action Items and Next meeting
- 4:30 Adjourn



# DRAFT Terms of Reference

To establish the purpose, framework, and engagement guidelines for the EEA Fisheries Working Group on Offshore Wind Energy

“... to provide a forum to engage with the Commonwealth’s fishing industry on the planning, siting, and leasing of wind energy areas and the development and operation of offshore wind projects in southern New England, the New York Bight, the Gulf of Maine, and other regions along the Atlantic coast.”

# Developer Updates

- Vineyard Wind
- Equinor
- Mayflower
- Ørsted

# Orsted/Eversource: South Fork Wind

*Fisheries Economic Impact Assessment  
Fisheries Mitigation Plan*

## Other Updates/Announcements

# Action Items and Next Meeting

- ❖ Schedule next meeting for September
- ❖ Feedback on Terms of Reference

Thank you



# Update on Pilot Regional Fisheries Studies

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## Massachusetts Habitat Working Group

Nils Bolgen

June 14, 2021



# Topic Areas and Funded Studies

## Fishery Resource Studies

- INSPIRE Environmental – *Acoustic Telemetry for Highly Migratory Species*
- UMass Dartmouth – *Net Surveys for Larval Lobster and Fish Neuston*

## Seafloor Habitat Studies

- INSPIRE Environmental – *Standard Approaches for Mapping of Acoustic and Imagery Benthic Data*

## Technical Studies

- University of Rhode Island – *Fishing Vessel Status using AIS: Big Data Approach*
- New Bedford Port Authority – *Comparative Analysis of Approaches to Regulation*



# INSPIRE Environmental Acoustic Telemetry for HMS

Partners	New England Aquarium (Anderson Cabot Center for Ocean Life)
Team	Brian Gervelis, INSPIRE (Co-PI) Jeff Kneebone, NEAq (Co-PI)

2020-Q2	Q3	Q4	2021-Q1	Q2	Q3	Q4	2022-Q1
	7/15/20	12/01/20		04/01/21	08/01/21	12/01/21	
	09/01/20						
<i>Deploy Yr. 1:</i>	07/15/20		<i>Deploy Yr. 2:</i>	05/31/21	<i>Retrieve Yr. 2:</i>	12/01/21	
	<i>Retrieve Yr. 1:</i>	12/01/20			<i>Draft Report:</i>	12/31/21	
					<i>Sponsor Comments:</i>		01/31/22
					<i>Final Report:</i>		02/28/22

# UMass Dartmouth

## Net Surveys – Larval Lobster & Fish Neuston

Partners	Massachusetts Lobstermen's Association <i>Plus assorted charter vessel owners</i>
Team	Kevin Stokesbury, UMass Dartmouth (PI) Beth Casoni, MLA

2020-Q2	Q3	Q4	2021-Q1	Q2	Q3	Q4	2022-Q1	Q2
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07/31/20 10/31/20 01/31/21 04/30/21

Procure Equipment: 06/30/20

Added tasks and milestones

Sampling Trips: 06/15 to  
09/30/20

05/15 to  
06/30/21

Sample Processing: 12/31/20

3/31/22

Analysis: 03/31/21

Draft Preliminary Report: 05/31/21

Draft Report: 05/31/22

Sponsor Comments: 06/15/21

Sponsor Comments: 06/15/22

Final Preliminary Report: 06/30/21

Final Report: 06/30/22

# INSPIRE Environmental

## Std. Approaches for Benthic Mapping

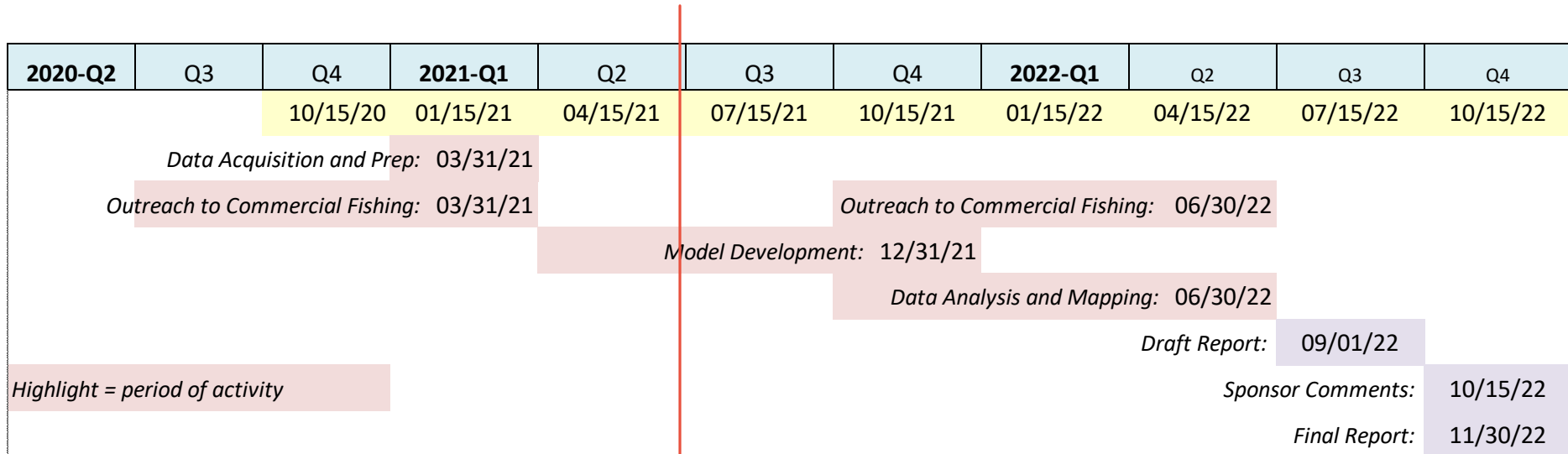
Partners	NROC
Team	Marisa Guarinello, INSPIRE (PI) Emily Shumchenia, NROC

2020-Q2	Q3	Q4	2021-Q1	Q2	Q3	Q4	2022-Q1
<i>WG Mtg. 1:</i> 12/31/20 <i>Mapped gradient of habitats:</i> 04/30/21 <i>Interactive Data Products:</i> <i>WG Mtg. 2:</i> <i>Data Hosting and Delivery:</i>					07/31/21	08/31/21	08/31/21
					<i>Analysis Mode:</i>	10/31/21	
					<i>WG Mtg. 3:</i>	12/31/21	
					<i>Draft Report:</i>	12/31/21	
					<i>Sponsor Comments:</i>		01/31/22
					<i>Final Report:</i>		02/28/22

# University of Rhode Island

## Fishing Vessel Status using AIS

Partners	Rhode Island Dept. of Environmental Management
Team	Thomas Sproul, URI (PI) Julia Livermore, RIDEM <i>Ongoing engagement with NOAA, ROSA, NYSERDA</i>



Term extension in process . . . →

# *New Bedford Port Authority*

## Comparative Analysis of Approaches to Reg.

Partners	Technical consultant TBD External working group TBD
Team	Barbara Stone, NBPA <i>Multiple collaborators TBD</i>

# THANK YOU

**Nils Bolgen**

**MassCEC**

[NBolgen@MassCEC.com](mailto:NBolgen@MassCEC.com)



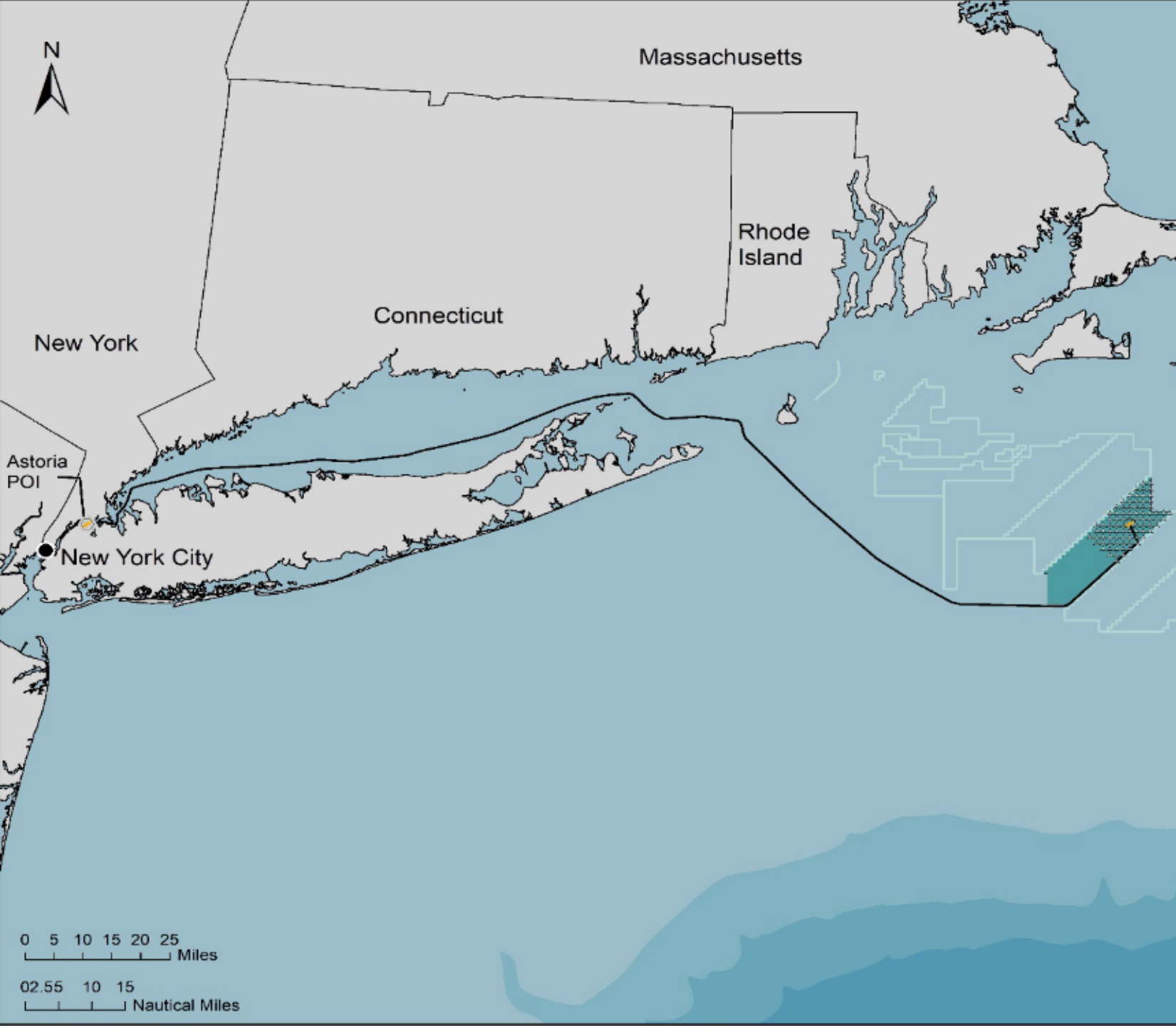


equinor

# Beacon Wind

Elizabeth Marchetti  
EEA Fisheries Working Group on Offshore Wind Energy  
June 14, 2021

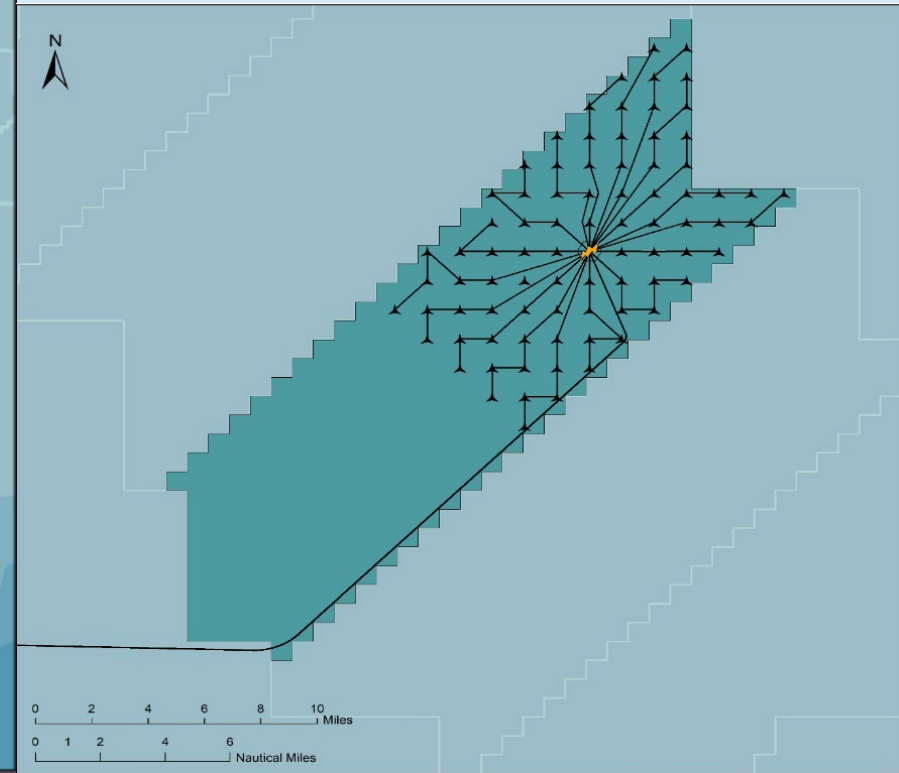




### Energy Procurements Update:

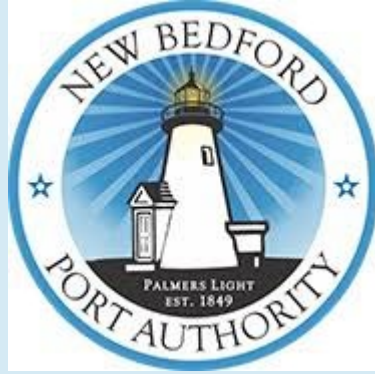
- January 2021: New York awarded 1,230 MW to Beacon Wind 1 with landfall at Astoria, NY

## Beacon Wind 1





# Route Consultations



**Save the Sound®**  
Action for our region's environment.



**THE MARITIME ASSOCIATION  
OF THE PORT OF NEW YORK - NEW JERSEY**

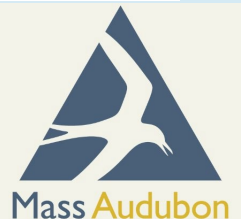


**US Army Corps  
of Engineers®**  
New York District



**CONNECTICUT  
Land Conservation Council**

**The Nature  
Conservancy**





# 2021 Beacon Wind Activities

- HRG surveys for Lease Area completed and are underway along export cable route (mobilized August 2020)
- Scout Boat Program for survey activities
- 2020-2021 Beacon Wind has had 9 FLOs from NY, CT, RI, MA, and ME
- Seafloor sampling for Lease Area and export cable route mobilizing summer 2021: vibracores, SPI/PV imagery, CPTs, and benthic grabs
- SAP Buoy and Mooring Installation – Anticipated Q3 2021
- Survey newsletters distributed to fisheries stakeholders and available on website- [www.BeaconWind.com](http://www.BeaconWind.com)
- Survey activities published via USCG LNM and updates to USCG NY VTS for nearshore activities
- Project websites show AIS for survey vessels operating in the Lease Area under “Information for Mariners”



**FV Karoline Marie  
(Scout Boat)**



**FV Karoline Marie  
(Scout Boat)**



**Stril Explorer**



**Saentis**



**Seehorn**



**Deep Helder**



**Dolphin**



**Danielle Miller**



**Dina Polaris**



# In the event there is gear loss or damage caused by, or resulting from, Equinor activity:



1. Contact FLO and notify them of the incident as soon as safe and practicable.
2. Complete information request w/in 30 days
3. Details will be reviewed by Equinor's fisheries manager and fisheries industry representatives
4. A written explanation of the decision will be provided w/in 30 days.
5. If claim is approved, a check will be issued.

**Claim Information to be Provided by Fisherman**

Date of incident:

Time of day, weather conditions:  
(optional)

Location of gear loss/damage:

A. Lat/Long

B. Photo of chart plotter/vessel tracks

Gear description - Markings /polyballs, highflyers:

Offshore wind vessels in the area, other vessel activity:

When was the last time gear was set and hauled?

Was any of the gear retrieved?

How many gillnets, pots, highflyers, trawl, doors, ground cables, scissor legs, etc. are lost/damaged?

Invoice for replacement gear or gear repair (must be substantially similar to gear that was lost/damaged)

Remaining questions only need to be completed if claiming lost fishing time:

Description of normal fishing activity / fishing gear configuration

Date of loss:

Date of replacement:

Proof of fish landing history through VTR, sales slip, or similar type of documentation:

Tag replacement application/receipt, both state and federal if applicable:

By submitting this Application, Applicant authorizes Equinor to make whatever reasonable inquiries and investigations it deems necessary to verify my application and request for compensation. Applicant understands that submitting this Application does not guarantee payment. Applicant further agrees that if this claim is accepted and paid in its entirety, that acceptance of such payment constitutes full, final and complete payment for this particular claim and that neither developer nor any of its affiliates shall have any further outstanding or ongoing obligation with respect to this specific claim and Applicant shall not, directly or indirectly, assert any claim, or commence, join in, prosecute, participate in, or fund any part of, any suit or other proceeding of any kind against developer or any of its affiliates, based upon this specific claim. If a claim is denied in part, Applicant may accept payment for the undisputed part without waiving Applicant's right to appeal the disputed part of the claim. Applicant recognizes that submission of this Application does not affect Applicant's rights concerning matters other than those specifically identified in this specific Application. I attest, under penalty of perjury, that to the best of my knowledge the information in this Application is true and correct.

Signature: \_\_\_\_\_ Date: \_\_\_\_\_

**Equinor Fisheries Liaison Contacts:**

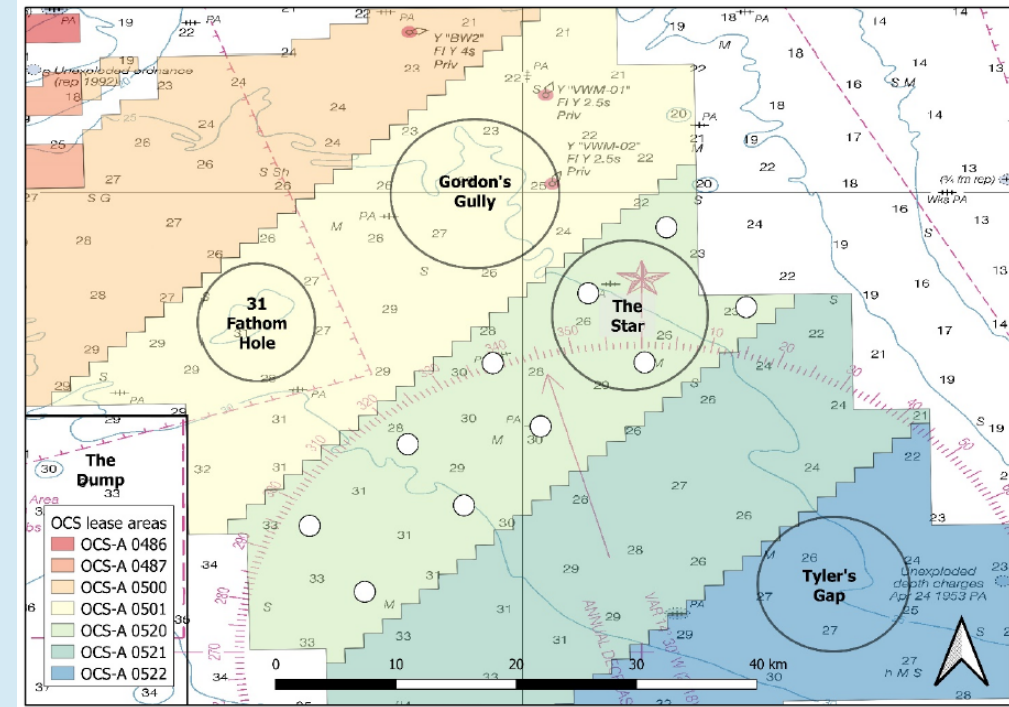
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mobile: 401.954.2902

Steve Drew  
Fisheries Liaison  
[sdrew@searisksolutions.com](mailto:sdrew@searisksolutions.com)  
mobile: 908.339.7439



# New England Aquarium – Highly Migratory Species acoustic telemetry and recreational fishery monitoring

- Goal: Assess impacts on highly migratory species (HMS) and the large recreational fishery that targets them
  - Part 1: Passive acoustic monitoring
    - 10 acoustic receivers in Lease Area (now deployed)
    - 50 tags to be deployed (25-2021 / 25-2022)
    - 4 target species
  - Part 2: HMS recreational fishery monitoring in lease area
    - Report on baseline recreational fishing effort in lease area
    - Monitoring of recreational effort in the 2020 and 2021 fishing season



White circles = 1,000 m max detection range



Atlantic bluefin tuna  
*Thunnus thynnus*



shortfin mako  
*Isurus oxyrinchus*



blue shark  
*Prionace glauca*



common thresher shark  
*Alopias vulpinus*

# Beacon Wind | Permitting Schedule



Technical / Engineering Support

Environmental Assessments  
Application Development

Public Review &  
Public Hearings

2019

2020

2021

2022

2023

2024

2025

Construction &  
Fabrication

Lease  
Effective

Aerial Wildlife  
Surveys Begin

Marine Surveys  
Begin

Federal & State  
Permits  
Submission

Federal & State  
Permits Approved

Facility Design  
Report /  
Fabrication &  
Installation  
Report  
Submission  
(i.e. CVA reports)

FDR/FIR  
Accepted



equinor

# SHAPING THE FUTURE OF ENERGY

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Thank you for your attention

Elizabeth Marchetti  
EMARC@equinor.com

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MAYFLOWER WIND

# **MA EEA Fisheries Working Group Update**



**Joel Southall**  
**Fisheries Liaison Officer**

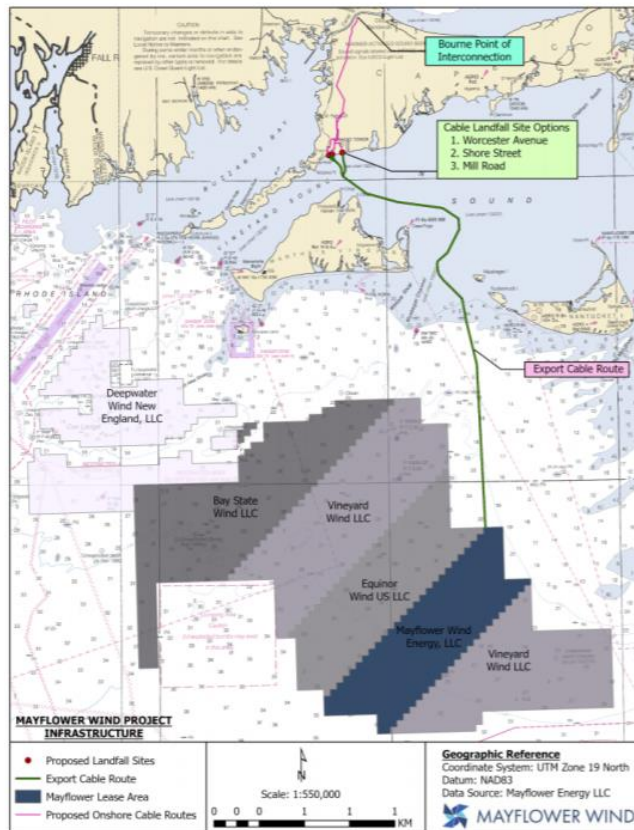
June 14, 2021



# Mayflower Wind

## Project Characteristics

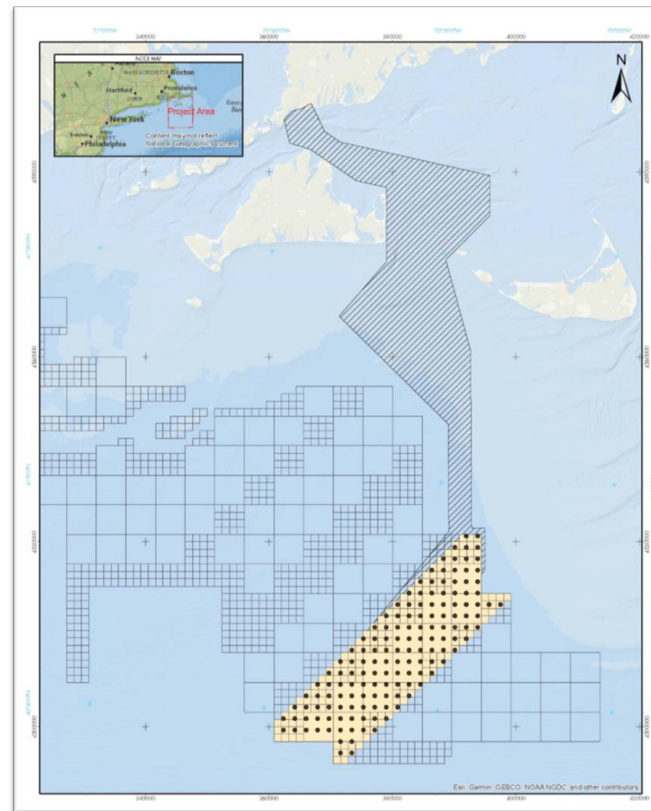
- **Lease:** OCS-A 0521
- **Area:** 127,000 acres (520 km<sup>2</sup>)
- **Water Depth:** 64% < 180 ft (55m)  
36% > 180 ft (55m)
- **Average wind speed at 135m:** 33 ft/s (10.1 m/s)
- **Distance to shore:** 53-65 miles (85-105 km)
- **Landfall:** Falmouth, MA
- **Connection point:** Bourne, MA
- **Distance to grid connection:** 78 miles (125 km)
- **Potential:** over 1,600 MW, depending on technology





# Mayflower Wind Milestones

- SAP approved by BOEM in May 2020; 2020 G&G Survey Plan approved by BOEM
- Agreed to 1x1 nm grid layout with other MA/RI developers
- High-resolution geophysical surveys conducted May-November 2020
- Geotechnical and geoarchaeological surveys conducted July-September 2020
- Virtual geoarchaeological core testing in consultation with BOEM, BUAR, MHC and Tribes, completed Fall 2020
- 2021 surveys began in mid/late April
  - R/V Westerly
  - GO Liberty
  - GO Pursuit



# 2021 Activities

## GEOPHYSICAL SURVEY VESSELS

### LEASE AREA



VESSEL: GO PURSUIT

Mobilization: April 17  
24-hr operations  
Water Depths > ~12m  
Estimate Duration ~60 to 90 days  
LOA: 150'  
Call Sign: WDH 6498  
Phone: +1 337 205 7400  
Monitoring VHF Channel 16

### EXPORT CABLE CORRIDOR



VESSEL: GO LIBERTY

Mobilization: April 19  
Daylight operations  
Water Depths > ~7m  
Estimate Duration ~125 days  
LOA: 170'  
Call Sign: WDK6648  
Phone: +1 337 735 1828  
Monitoring VHF Channel 16

### EXPORT CABLE CORRIDOR



VESSEL: WESTERLY

Mobilization: April 12  
Daylight operations, will return to port nightly  
Water Depths > ~2m  
Estimated Duration ~175 days  
LOA: 50'  
Call Sign: WDF7918  
Phone: 805 850 9593  
Monitoring VHF Channel 16

mayflowerwind.com



[PROJECT OVERVIEW](#) ▾ [ABOUT US](#) [OUR COMMITMENT](#) ▾ [NEWS & EVENTS](#) ▾ [WORK WITH US](#) ▾ [SIGN UP FOR UPDATES](#)

## Mayflower Wind and Anbaric Agree To Bring Offshore Wind Ashore at Brayton Point

May 27, 2021

### Supplements Mayflower's Cape Cod Efforts

**Somerset, Massachusetts—May 27, 2021—** Mayflower Wind and Anbaric Development Partners (Anbaric) today announced that they have signed an agreement for Mayflower Wind to use transmission assets developed by Anbaric to bring offshore wind to Brayton Point. Mayflower Wind will bring clean offshore wind energy from its federal offshore energy lease area to Brayton

### NEWS

[Announcements](#)

[News Coverage](#)

[Newsletters](#)

[Events](#)

[Press Releases](#)

### MEDIA CONTACT

Joyce McMahon

McMahon Communications

[joyce@mcmahoncomm.com](mailto:joyce@mcmahoncomm.com)

(978) 430-8847

# Monitoring

## Fisheries Survey Planning & Research

### Fisheries – Project & Regional

- Highly Migratory Species research (acoustic telemetry & tagging with NEAq)
- Analysis of recreational fishing effort (NEAq)
- Lobster larval, ventless trap, and trawl (camera) surveys with SMAST
- Responsible Offshore Science Alliance (ROSA Founding member)

### Environmental – Project & Regional

- Coordination of digital aerial surveys – birds, marine life
- Right whale aerial surveys (joint developers with MassCEC & NEAq)
- Regional Wind Science Entity
- Metocean data sharing (with NOAA)



Mayflower Wind MA  
Offshore Wind south of Nantucket, MA

Lat: 40.80 Lon: -70.34

Latest Observation: 06/25 05:00 PM EDT

Variable	Value
Wave height	3.1 ft (1.0 m)
Wave period	8.0 sec
Wave direction	S (180 °)
Air temp	66.8 °F (19.3 °C)
Air pressure	1015.72 mb
Water temp	65.1 °F (18.4 °C)
Salinity	32.27 psu

# We want to hear from fishermen, please contact me

Joel Southall  
Fisheries Liaison Officer

[joel.southall@mayflowerwind.com](mailto:joel.southall@mayflowerwind.com)  
617-817-4682  
[mayflowerwind.com](http://mayflowerwind.com)



# Ørsted Offshore North America

**Marine Affairs Department Presentation to the  
Massachusetts Fisheries Working Group**

**Edward G. LeBlanc**



June 2021

## Gear Conflict

### ➤ Avoidance Measures:

#### ➤ Mariners' Web Page

➤ <https://us.orsted.com/wind-projects/mariners>

#### ➤ Local Notice To Mariners

#### ➤ Scout Vessels

#### ➤ Onboard Fisheries Representatives

#### ➤ Fisheries Representatives

#### ➤ Marine Affairs Dept Fisheries Liaisons

➤ But, where there may be gear loss, there is a claims process

## Gear Claim

### ➤ Timeline targets:

- Report within 14 days
- Claim within 30 days

- Can't meet timeline targets?
  - We'll work with you

### ➤ Documentation required

- Can't meet documentation requirements?
  - We'll work with you

### ➤ Economic loss/opportunity costs

- May be included as part of the claim
- Grace period for past claims

## Gear loss claim Application

Name \_\_\_\_\_ Address \_\_\_\_\_

Phone number \_\_\_\_\_ Email \_\_\_\_\_

Vessel name \_\_\_\_\_ Home port \_\_\_\_\_

Gear type \_\_\_\_\_ State license # \_\_\_\_\_

Federal permit # \_\_\_\_\_

Vessel documentation number / registration number # \_\_\_\_\_

Claim amount \_\_\_\_\_

### Required elements of gear loss claim form

1. A full statement about the damage and/or loss. The statement must include:
  - Date the damage or loss was first discovered
  - If mobile gear, your vessel's direction, speed, and activities immediately before, during, and after the incident (including a full description of both the deployment of any fishing gear which is the subject of the claim and all attempts at retrieval of the gear)
  - Names and addresses of all witnesses to the incident
  - Specific location of incident in LORAN or LAT/LONG
  - If available, a description of the vessel, item, or obstruction which caused the incident and whether or not any surface markers were attached to or near the obstruction
  - Reasoning why the loss and/or damage is associated with Ørsted Offshore North America activities
2. In order to receive compensation for lost or damaged gear, please provide the following:
  - An itemized and complete list of all lost and/or damaged fishing gear
  - Proof of purchase of all lost and/or damaged gear
  - An estimate from a gear repair or supply company to repair or replace lost or damaged gear
  - If you are repairing the gear by yourself, a detailed estimate identifying the repair cost
3. If claiming economic loss, please submit the following:
  - VTRs for the three fishing trips immediately before the trip during which the loss occurred or was discovered
  - VTR for the trip on which the loss occurred or was discovered
  - VTR for the trip immediately following the trip on which the loss occurred or was discovered
  - If mobile gear, a statement describing the amount of time each of the above trips took
  - If fixed gear, a statement on the number of gear units deployed on each trip
  - A statement of the amount of time lost from fishing because of the gear loss and/or damage and a full explanation of why this time period is reasonable
  - Documentation of the date replacement gear was ordered and received or the date gear repair began and ended



## Gear Claim Myths

- Allowed only one lifetime claim
- Standard of documentation too high
- Timelines too short/inflexible



By submitting this Application, Applicant authorizes Ørsted Offshore North America Inc. to make whatever reasonable inquiries and investigations it deems necessary to verify the Application and request for compensation.

Applicant understands that submitting this Application does not guarantee payment. Applicant further agrees that if the claim is accepted and paid, acceptance of such payment constitutes full, final and complete payment for **this particular claim** and that neither Ørsted Offshore North America Inc., nor any of its affiliates or joint venture partners shall have any further outstanding or ongoing obligation with respect to **this particular claim** and Applicant shall not, directly or indirectly, assert any claim, or commence, join in, prosecute, participate in, or fund any part of, any suit or other proceeding of any kind against Ørsted Offshore North America Inc., or any of its affiliates or joint venture partners, based upon **this particular claim**.

If a claim is denied in part, Applicant **may accept payment for the undisputed portion**, as long as a release for that portion is provided, **without waiving Applicant's right to appeal** the disputed part of the claim.

Applicant recognizes that submission of this Application does not affect Applicant's rights concerning matters other than those specifically identified in this particular Application. Finally, Applicant attests under penalty of perjury that to the best of Applicant's knowledge the information submitted is true and correct.

# Thank you

Edward G. LeBlanc  
Marine Affairs Manager, Northeast

EDWLE@Orsted.com  
978-447-2737

 Orsted



06.14.2021

# South Fork Wind

A Joint Venture of Ørsted and Eversource

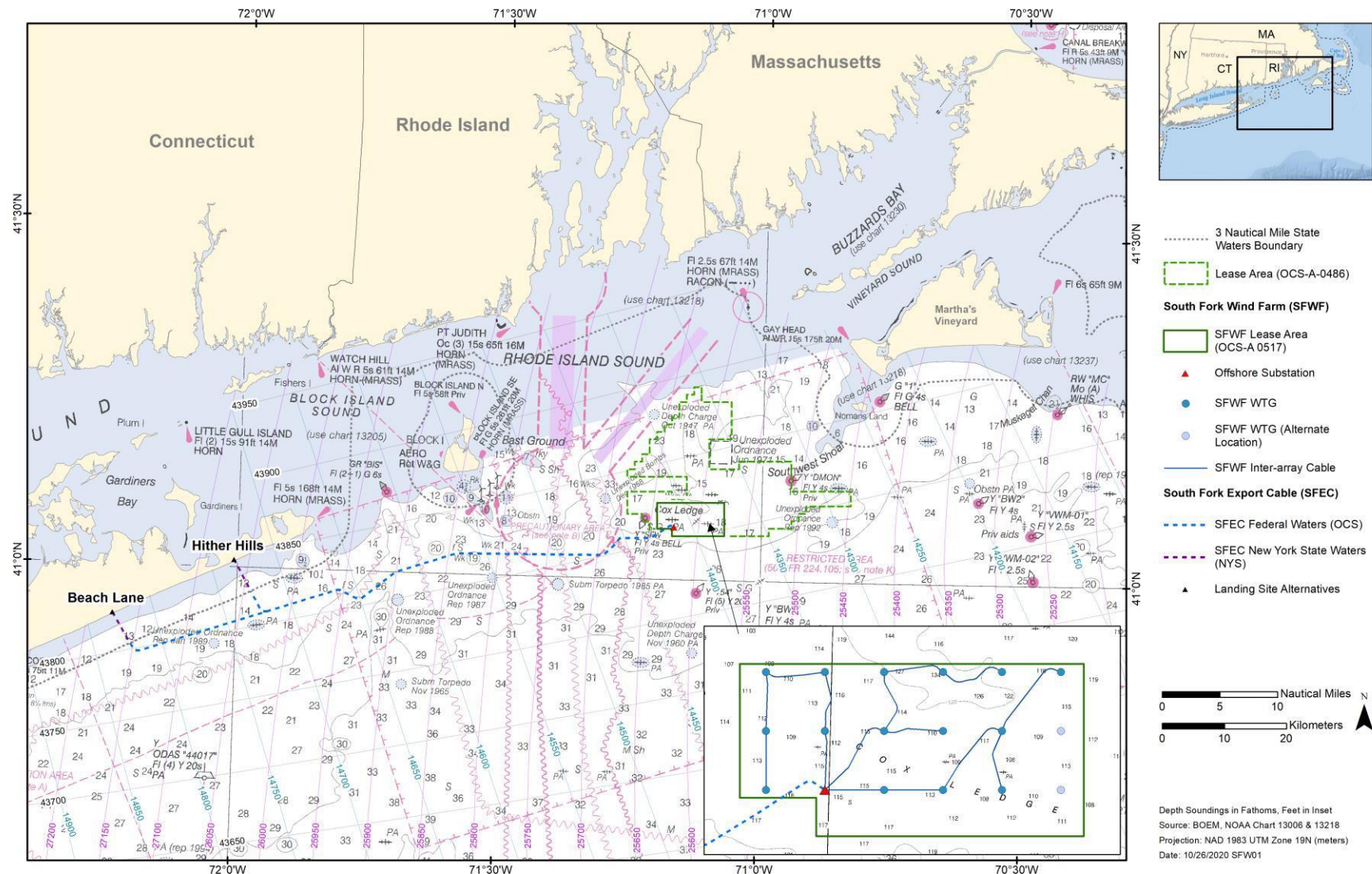
**South Fork  
Wind**

Powered by  
Ørsted &  
Eversource

Massachusetts Fisheries Working Group  
on Offshore Wind Energy



# Project Location



South Fork  
Wind

Powered by  
Ørsted &  
Eversource

SFWF	Acres	% of Total
Lease OCS-A-0517	13,700	100.00%
Footprint of Permanent Structures	32.5	0.24%

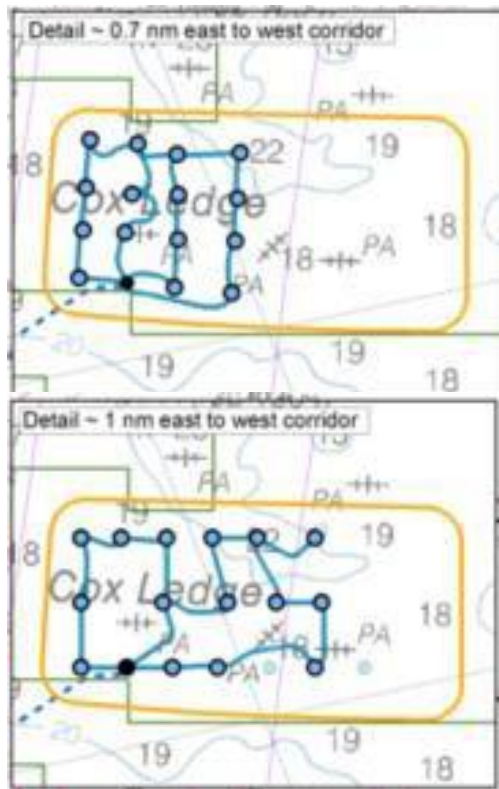
# South Fork Wind's Commitments

## Modifications:

- Export cable route adjustments in response to input from mobile gear fishermen
- Sufficient cable burial
- Robust Fisheries Monitoring Plan focused on commercially and recreationally important species in the project area
- Extensive fisheries outreach plan during all phases of the project
- Increased communications during offshore surveys
- Fishing gear scout vessels
- Automatic Identification System (AIS), enhanced cellular and VHF coverage on the structures
- Micrositing turbines to minimize impacts to sensitive benthic habitats
- Noise reduction systems during foundation pile driving
- Twelve 11 MW Wind Turbine Generators
- **Turbine layout revised to 1 by 1 nautical mile grid**

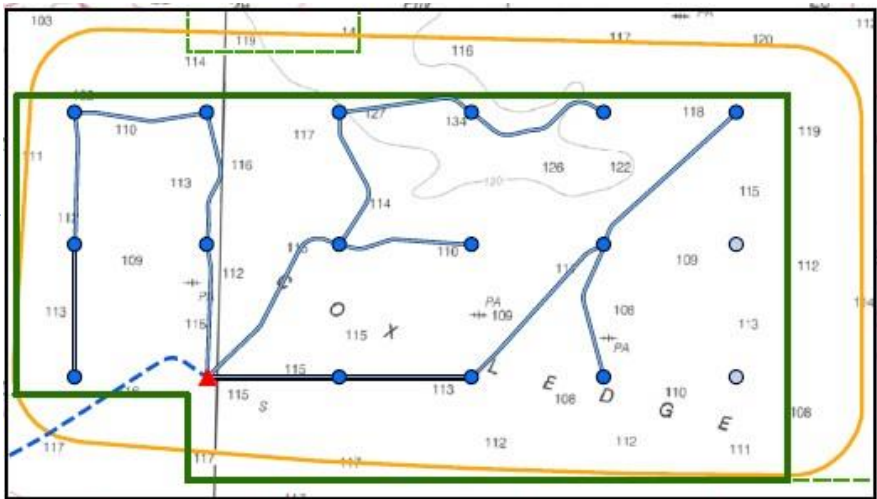
# Progression of South Fork Wind Turbine Layouts

Former Layouts 2018



2019

2020 Layout: 1 nautical mile by 1 nautical mile grid



# Offshore Construction Timing

- Offshore construction to occur between Spring and Late Fall 2023, project commissioning completed by December 2023.
  - Construction activities occur in a sequence: Foundations -> Turbine Towers -> Blades.
    1. Each foundation takes between **2-4 days** to install (maximum total of 2 months).
    2. Driving each monopile foundation takes only **2-4 hours**.
    3. Each turbine takes **up to 3 days** to install.
  - Cable installation can run concurrently with foundation and turbine installation.
- \* Pile driving can not occur between January 1 and April 30** to protect the endangered North Atlantic Right Whale.





# VINEYARD WIND

**MA Fisheries Working Group**

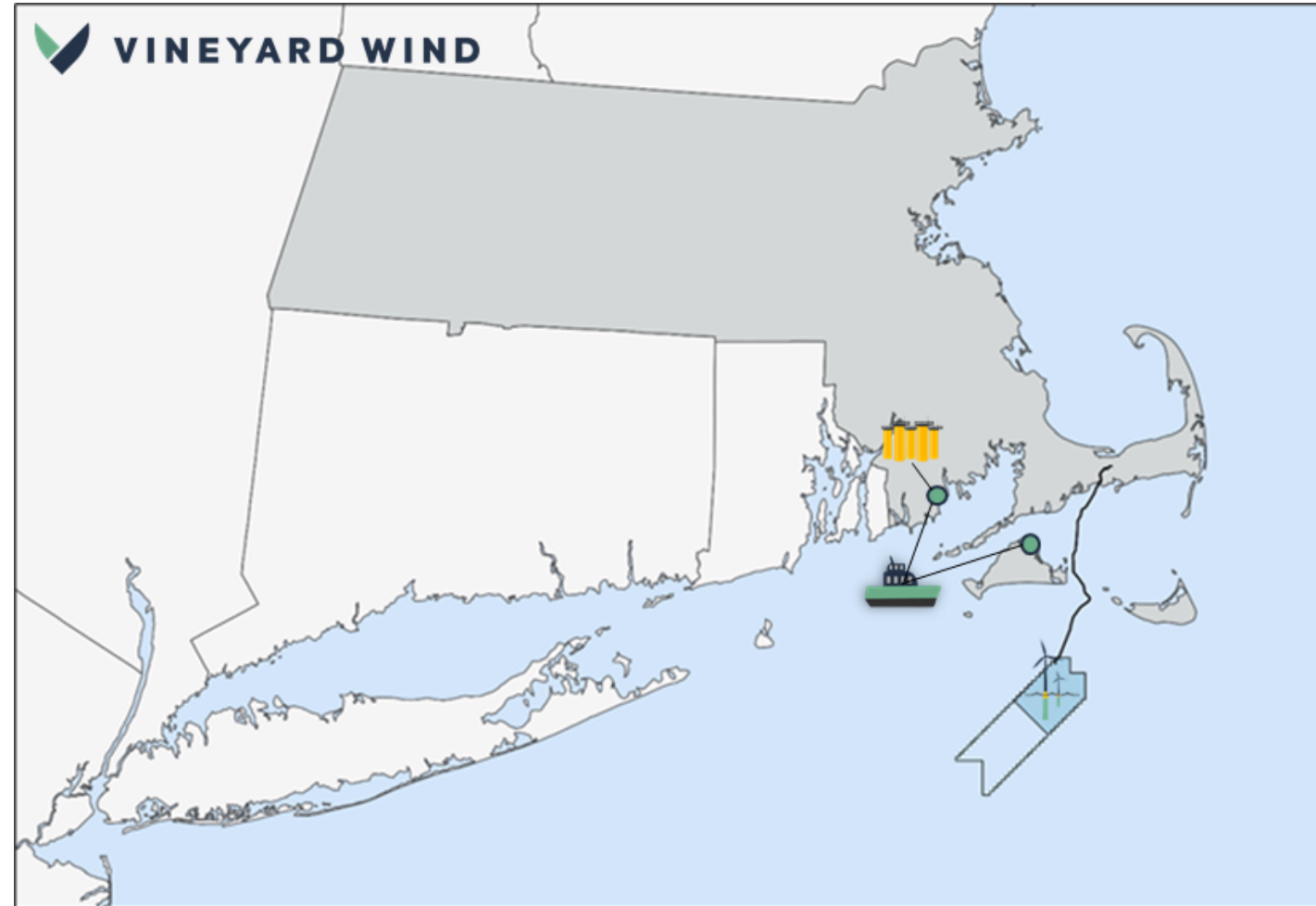
**June 14, 2021**



# Vineyard Wind 1

## Overview

- **Capacity:** 800 MW
- **BOEM Permitting: Completed**
  - Construction & Operations Plan: December 2017
  - Draft Environmental Impact Statement: December 2018
  - Supplemental Environmental Impact Statement: June 2020
  - Final Environmental Impact Statement: March 12, 2021
  - Record of Decision: May 10, 2021
- **State Permitting: Completed**
- **Point of Interconnection:** Barnstable Substation
- **Power Purchase Agreements:** 20-year PPAs with Massachusetts utilities (approved)

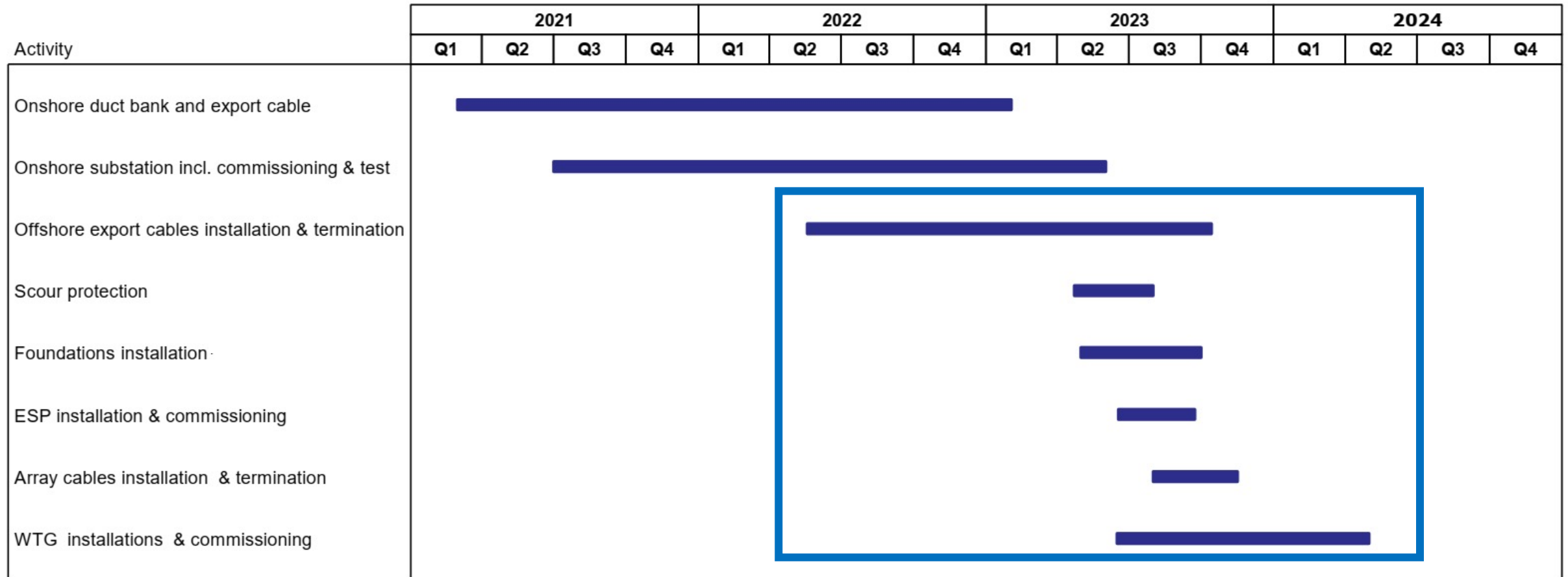


Vineyard Wind 1 construction and staging based in New Bedford with operations and maintenance based on Martha's Vineyard



# Vineyard Wind 1

## High-level Construction Schedule



# Geological Surveys and Fishermen Opportunities

## Onboard Fishery Liaisons

- Fishermen onboard geophysical and geotechnical survey vessels to help communicate with fishing vessels in area
- Help survey vessel locate and navigate around gear
- Documentation of gear/vessels in area
- Survey season 2020 – 10 fishermen on 6 vessels

## Scout Vessels

- Opportunity to use fishermen/fishing vessels
- Work ahead of survey vessel locating fixed gear
- Help communicate with fishermen working in area of survey vessel's plans
- 2021 survey season will utilize scout vessels



# <https://www.vineyardwind.com/events/2021/6/3/smast-fisheries-surveys>

## SMAST Virtual Meeting for Fishermen: Review of Fisheries Surveys

Thursday, June 3, 2021  
9:00 AM – 11:00 AM

[Watch the video of the meeting.](#) [Download the presentation.](#)

UMass Dartmouth's School for Marine Science and Technology (SMAST) is hosting a virtual meeting for fishermen to provide an overview of Vineyard Wind's fisheries survey methods and results to date, feedback from the fishermen and scientific review groups, and survey plans for 2021. There will be time for questions and discussion.

Survey Reports to be discussed include:

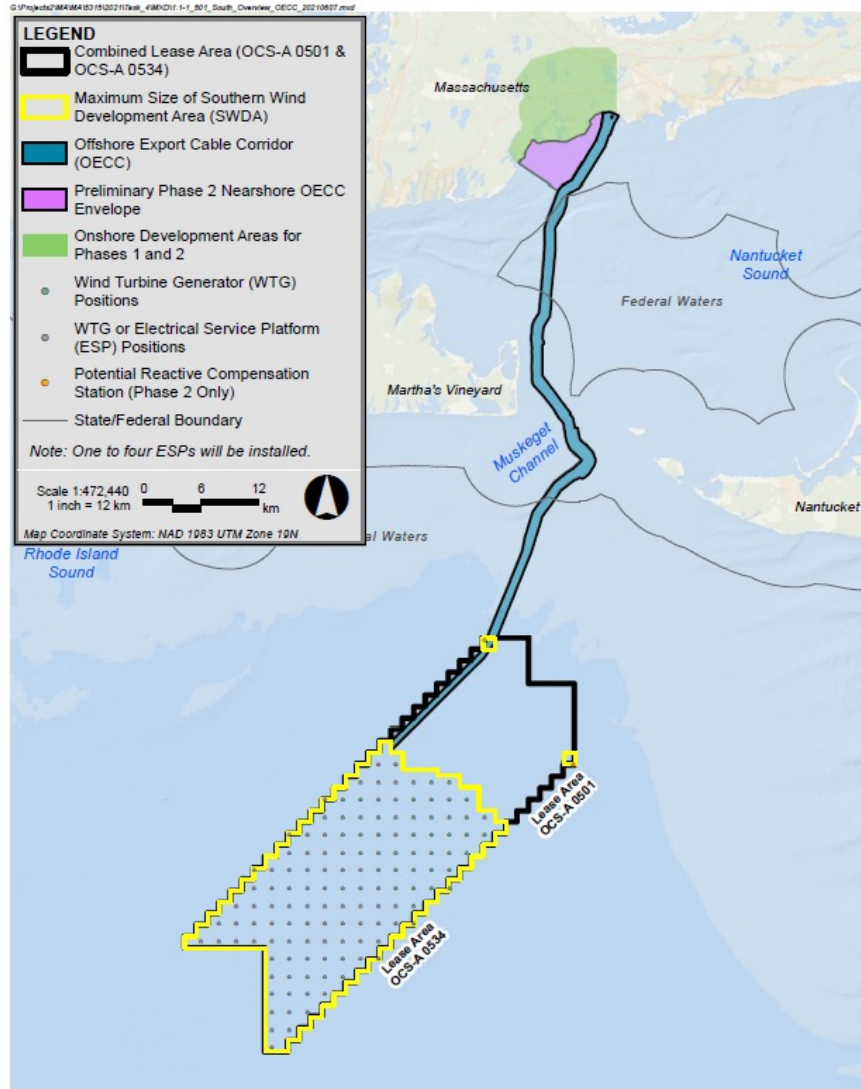
- [Trawl Survey](#)
- [Drop Camera Survey](#)
- [Ventless Trap Survey](#)
- [Highly Migratory Species Report](#)

**WHO:** Fishermen, and open to the general public





# Future Development - Vineyard Wind South



## Overview

- **Location:** Vineyard Wind South is located immediately to the south of Vineyard Wind 1.
- **Two Phases:** Maximum of 130 Turbines and up to 5 Electric Service Platforms
  - **Phase 1** is Park City Wind – 804 MW for CT
  - **Phase 2** is Rest of Zone/Future Project – 1200 -1500 MW
- **Federal Permitting:**
  - Construction & Operations Plan submitted June 2020
  - Issuance of Notice of Intent to prepare an Environmental Impact Statement anticipated June 30, 2021
- **Development:** Each Phase has its own Project Design Envelope
- **Size:** SWDA approximately 410-455 km<sup>2</sup>
- **Landfall sites and grid interconnection:** Town of Barnstable for each Phase
- **Offshore export cables:** Up to five offshore export cables within the same corridor as VW 1





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Sign up for EMAIL Updates OR  
TEXT ALERTS

[www.vineyardwind.com/fisheries](http://www.vineyardwind.com/fisheries)

QUESTIONS?





06.14.2021 Fisheries Impact Analysis Update

# South Fork Wind

A Joint Venture of Ørsted and Eversource

**South Fork  
Wind**

Powered by  
Ørsted &  
Eversource

Massachusetts Fisheries Working Group  
on Offshore Wind Energy

# Lobster Landing Checked Against MA DMF Data

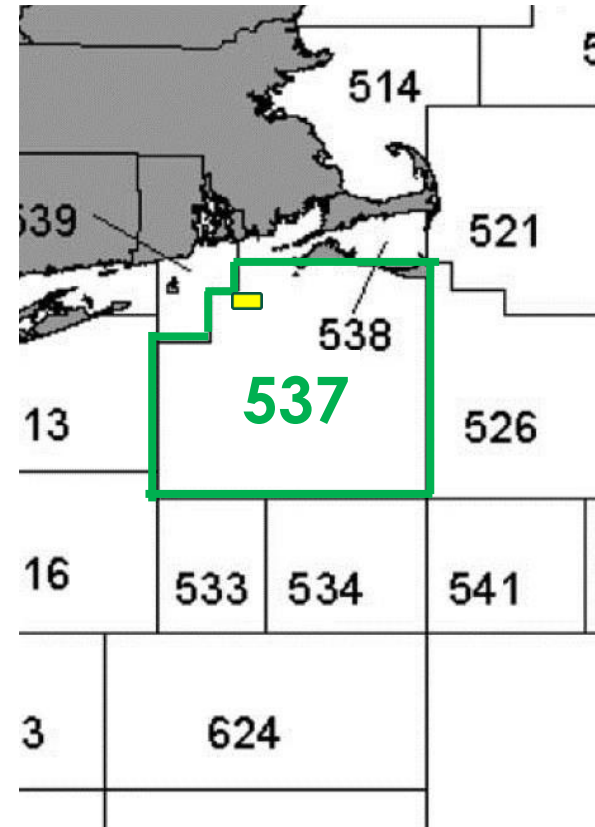
2008-2018 average lobster landings for  
SRA 16 = \$2,407,594/year

Area of SRA 16 = 22,380 km<sup>2</sup>

Area of SFWLA = 55 km<sup>2</sup>

Lobster landings from the WLA =  
 $\$2,407,594 \div 55 / 22,380 =$

**\$5,917/year** (in 2019\$)

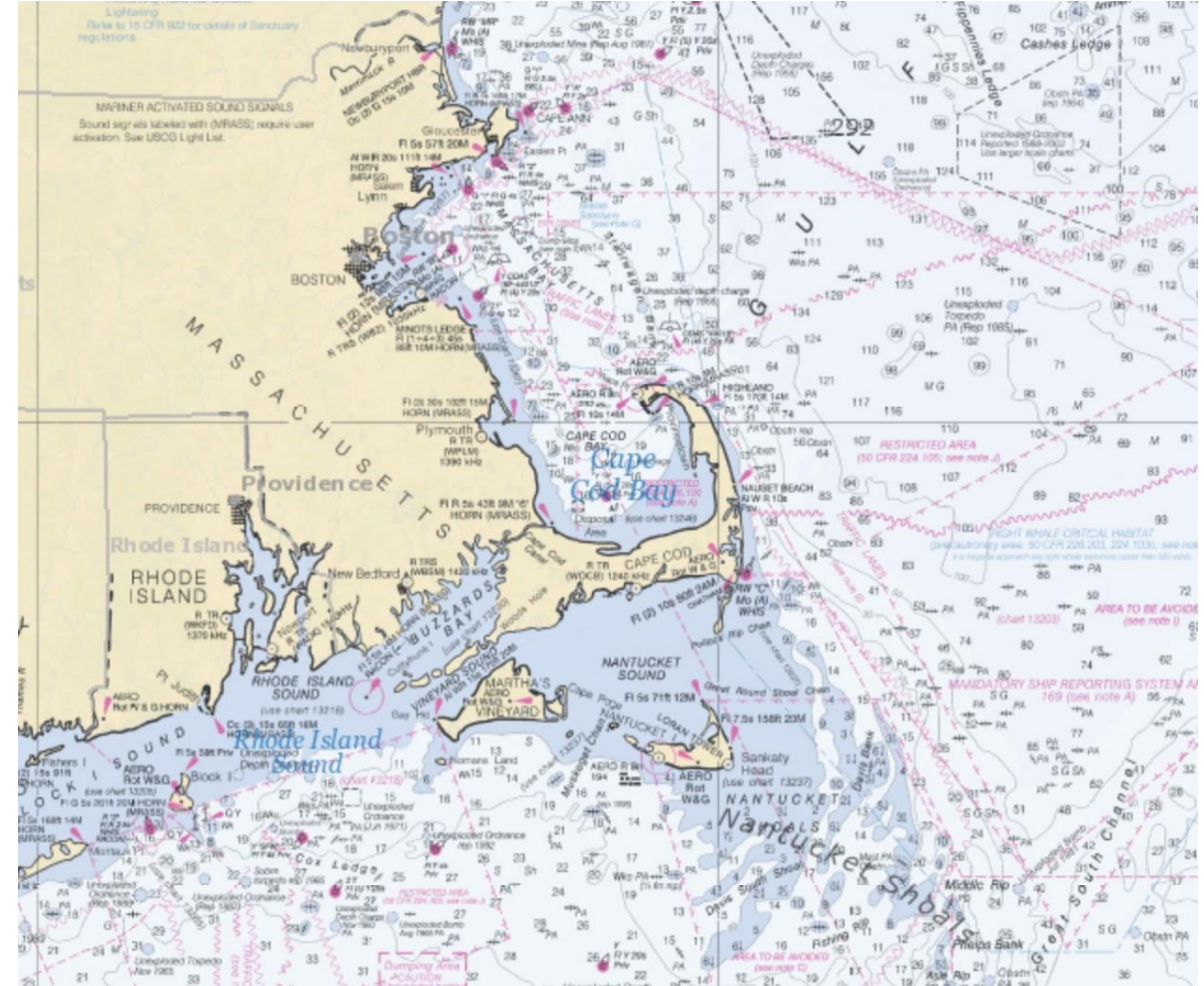


NMFS Statistical Area 537  
Statistical Reporting Area (SRA) 16

# For-Hire Charter Fishing: MA DMF Online Survey 6/21

## Survey results:

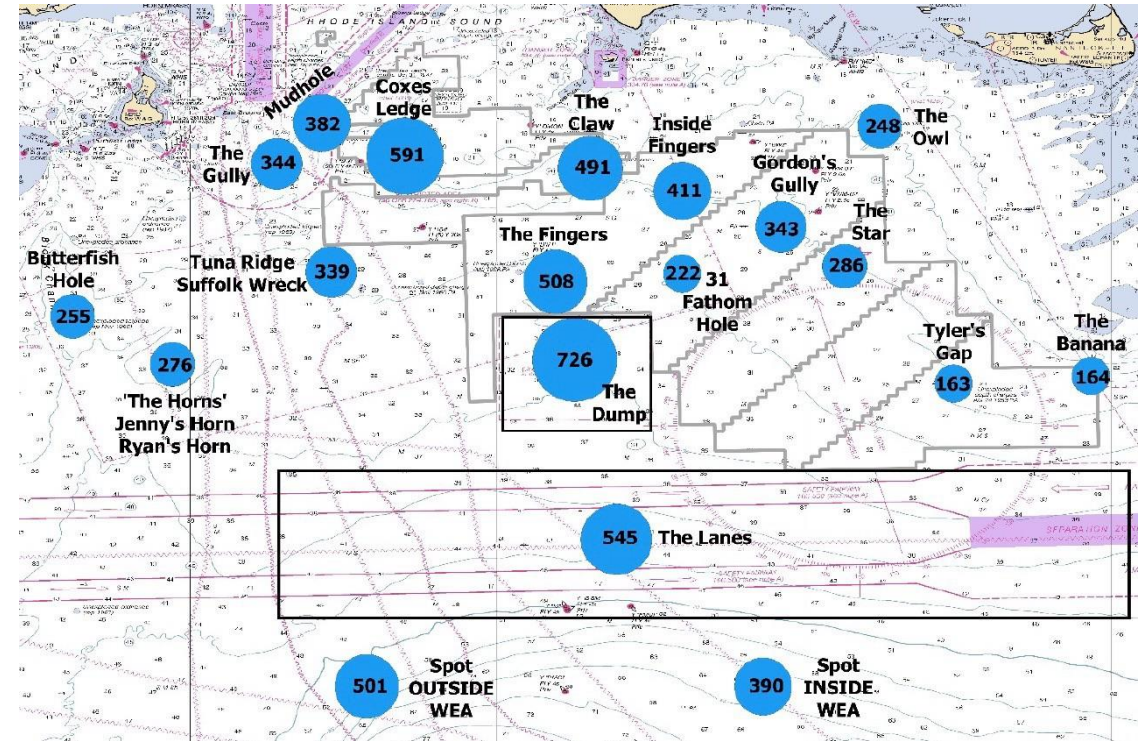
- 21 respondents (25 boats) from 240 email addresses
- 1,238 for-hire trips/year south of Cape Cod (average 2018-2020)
- 158 trips/year include fishing at Cox Ledge
- >70% of respondents sometimes fish Cox Ledge along with other locations on one trip
- On Cox Ledge multi-location trips, typically spend  $\frac{1}{2}$  to  $\frac{3}{4}$  of the time at Cox Ledge



# For-Hire Charter Fishing: MA DMF Online Survey 6/21

## Woods Hole team takeaway:

- Assume respondents represent 10% of total: 12,380 for-hire trips/year south of Cape Cod
- At \$1,500/trip average, that is about \$20 million/year in revenue (approx. 30% of Mass. total estimated from Kirkpatrick et al. 2017)
- Assuming 10% of this fishing is at Cox Ledge, that suggests \$2 million/year in for-hire charter revenue from Cox Ledge fishing (roughly consistent with Kneebone and Capizzano 2020)



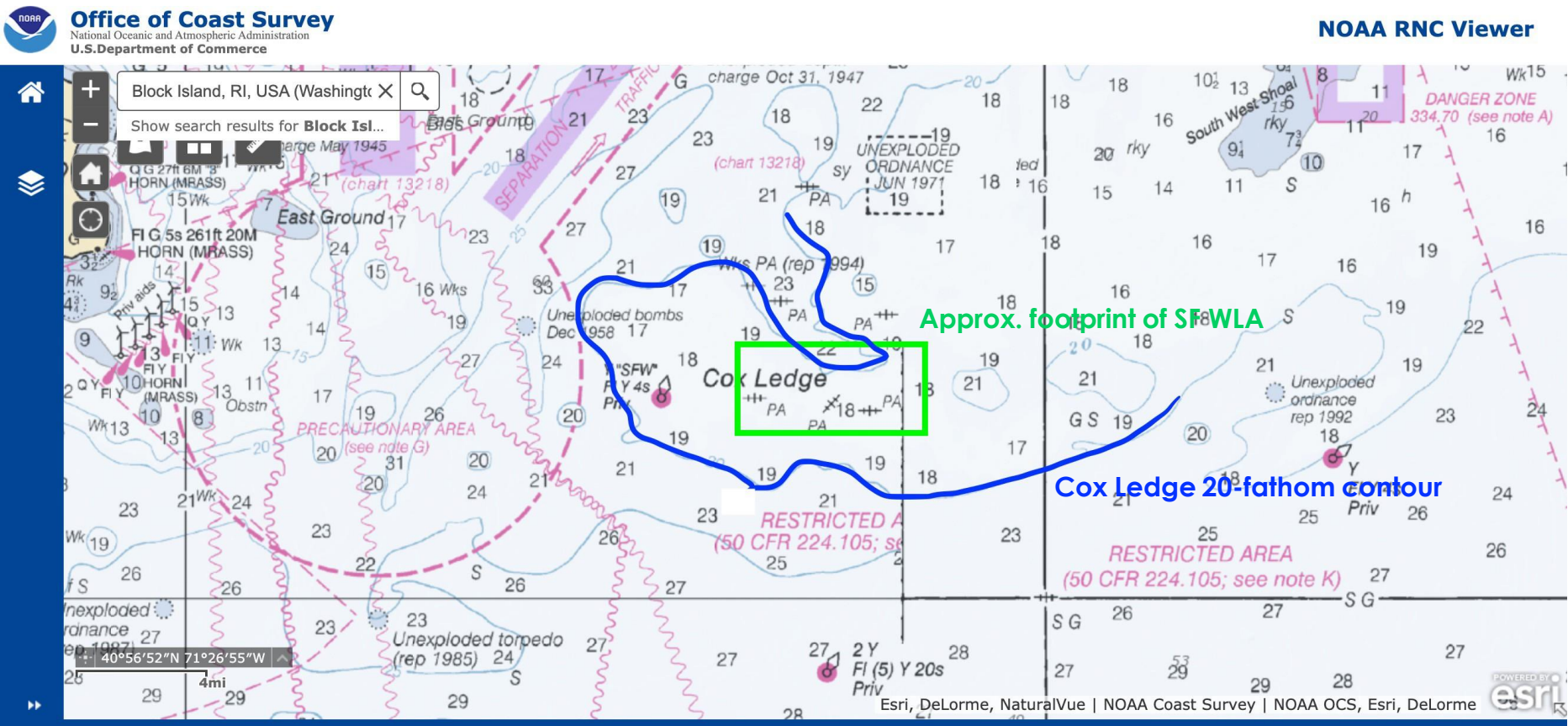
Source: Kneebone and Capizzano (2020)



# For-Hire Charter Fishing: SF WLA Footprint Compared to Cox Ledge

SF WLA footprint likely encompasses no more than 20%

Assume 25%:  
\$500,000/year revenue from Cox Ledge fishing



# Potential Impact

Categories of Potential Exposure	MA Total Impact with Multipliers \$2019
Subtotal MA commercial fishing	\$564,000
For-hire charter fishing	\$985,000
<b>Total MA</b>	<b>\$1,549,000</b>

Categories of Potential Exposure		MA Direct Landed Value/Revenue \$2019
Construction constrained access	WLA	\$38,000
	ECRA	\$11,000
Stock effects due to construction	WLA + 5km perimeter	\$89,000
	ECRA	\$39,000
Effects during operations	WLA	\$64,000
	ECRA	---
Decommissioning constrained access	WLA	\$10,000
	ECRA	\$1,000
Stock effects due to decommissioning	WLA	---
	ECRA	\$4,000
<b>Subtotal MA commercial direct effects</b>		<b>\$256,000</b>
For-hire charter fishing direct effects		<b>\$616,000</b>
<b>Total MA direct effects</b>		<b>\$872,000</b>



# South Fork Wind's Fisheries Mitigation Framework

## Commercial and For-Hire Fisheries Compensation Fund

**Objective:** Direct financial mitigation to fishermen operating in project area.

**Approach:**

- Escrow independently managed
- Eligibility period will pre-qualify fishermen based on defined eligibility criteria
- Payments based on historical activity in the Project Area

## Coastal Community Fund

**Objective:** Benefit the fishing community and associated industries by offering grants in the response to proposals.

**Approach:**

- Trust fund independently managed
- Selection of project funding made by an independent council formed with fishermen's input.
- Navigational Enhancement and Training Program

# South Fork Wind's Massachusetts Fisheries Mitigation and Financial Commitments



## SFW Mitigation Package

### Fisheries Compensation Fund

Woods Hole Assessment \$1,549,000

Contingency \$551,000

Community Fund\* \$500,000

**Total Value \$2,600,000**

\*The Community Fund will increase by \$1M when Revolution Wind and Sunrise Wind permits are received (2 x \$500,00). The community fund is inclusive of the Navigation and Training Program.

- 1 – Requirements for compensation:
- Massachusetts consistency concurrence on or before July 1st, 2021
  - SFW securing FID & all necessary requirements and approvals as described in COP including Local/State/Federal permits, authorizations, concurrences