



ROSA
Responsible Offshore
Science Alliance

ROSA Advisory Council

March 27, 2025

Agenda

- 1:00pm Welcome, Introductions, Agenda Review**
- 1:05pm State of Play - OSW & Fisheries**
- 1:20pm ROSA Updates**
- 1:55pm Regional Fund Administrator Update**
- 2:05pm State Updates**
- 2:45pm Break**
- 2:50pm Research Highlights**
- 3:20pm Action Items, Next Steps, and Other Business**
- 3:30pm Adjourn**

Leading Regional Research on Offshore Wind & Fisheries

Inception:

Formed in early 2019 as a 501(c)3 through partnership between RODA and OSW developers

Mission:

The Responsible Offshore Science Alliance (ROSA) is a nonprofit organization that **advances research, monitoring, and methods on the effects of offshore wind energy development on fisheries across US federal and state waters**. We serve as an objective resource for all sectors and facilitate the coordination of regional scientific research to collaboratively and efficiently deepen understanding.

**SCIENTIFIC
OBJECTIVE
COLLABORATIVE
TRANSPARENT**





ROSA Updates

Year in Review & NEFMC Summary



New England Fishery Management Council Offshore Wind & Fisheries Research Session Summary Report

The following report summarizes the Offshore Wind & Fisheries Research session held during the January 2025 NEFMC meeting. This session featured seven focused presentations (slides available on the Council website [here](#) with audio recording [here](#)) offering in-depth insights on current offshore wind (OSW) and fisheries research. A poster session was held directly after the Council meeting to encourage in-depth discussions and maximize engagement among participants.

Oral Presentation Summaries

[Presentation 1: Introduction](#), Reilly, Pol, & Perez, Responsible Offshore Science Alliance (ROSA)

The session opened with a presentation from ROSA staff outlining the current state of research on the interactions between OSW projects and fisheries, focused on the Fish and Fisheries Offshore Wind Research Database (FishFORWRD). Key points:

- ROSA's most recent update to FishFORWRD was completed in January 2025, and brought the total catalogued number of individual research projects in the region related to impacts of OSW development to **221**. The majority of these projects are focused on species distribution and habitat (driven largely by OSW developers' fisheries monitoring plans).
- In 2024, ROSA conducted a Gaps Analysis using [FishFORWRD](#). One hundred and one Summarized Research Needs were identified that fall into 11 research categories. At least one current project is ongoing in each research category. The Gaps Analysis will be undergoing formal peer review in 2025.
- Funding opportunities from 8 different sources (including federal, regional, state, and others) are currently open for OSW fisheries research. ROSA's biannual Funder Coordination Forum provides coordination to ensure newly-funded topic areas will address critical research gaps in OSW fisheries research.
- ROSA has completed the first year of a collaborative project with the National Renewable Energy Laboratory and the University of Maine. The project's aim is to bring together engineers and fishermen to codesign floating wind turbine platforms, mooring lines, dynamic cables, and anchors.



2025 ROSA Internship Update



Will Shoup - 2022



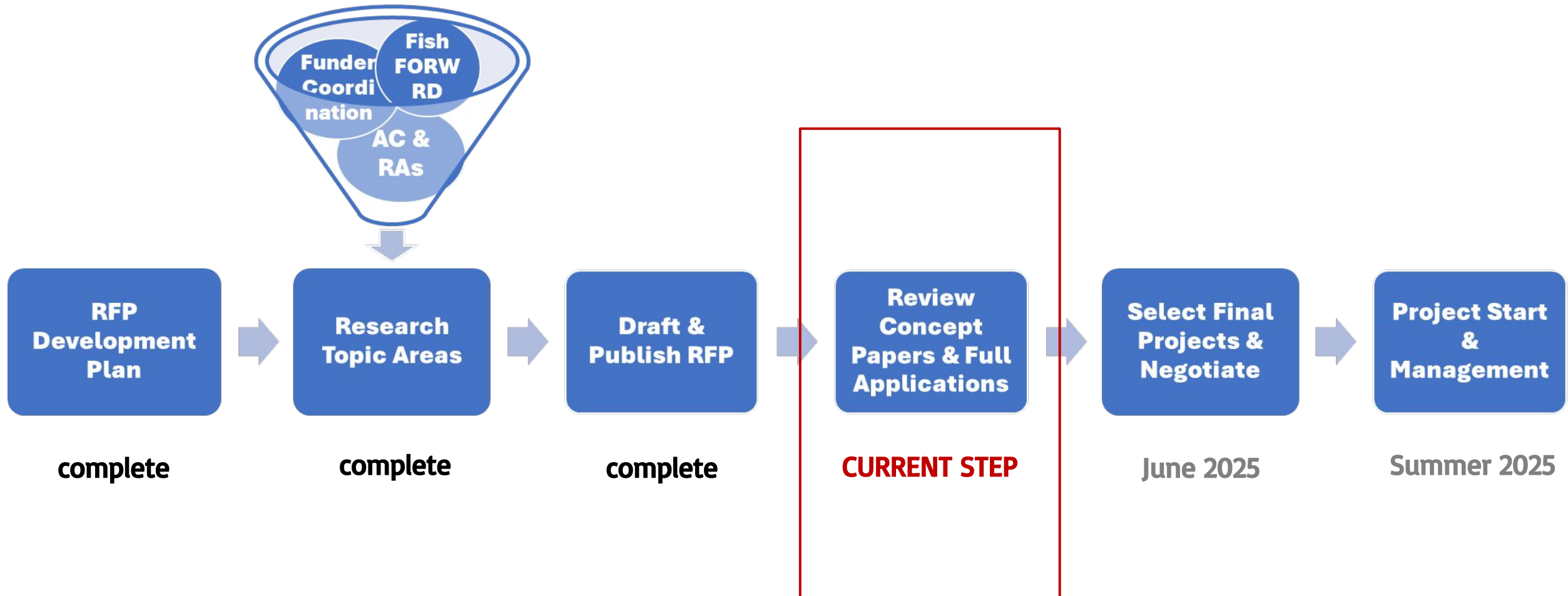
Nusrat Noor - 2024



Delaney McBride - 2024

- Internship applications closed on March 1
- Good pool of graduate students and recent graduates
- Interviews held last week and this week
- Selection soon!

ROSA RFP Development Process



Advancing Regional Solutions for Fisheries and Offshore Wind

ROSA Regional RFP 01

Topic Area	\$\$/TA	# Projects
Supporting Fisheries Access	\$1,600,000	2-3
Understanding Potential Offshore Wind Impacts to Larval Fish	\$1,200,000	1-2
Fisheries Monitoring: Data Integration, Evaluation, & Analysis	\$642,500	2-3
	\$3,442,500	

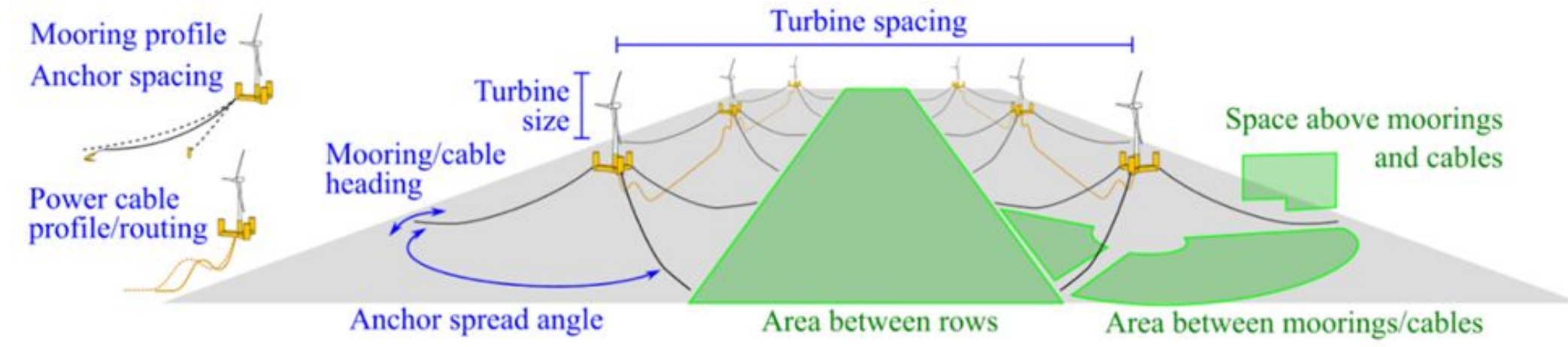
48 Concept Papers Received
24 Full Applications Invited
23 Full Applications Received

Under Technical Merit Review

Project selections expected to be announced **June 2025**

Co-Design Solutions For U.S. Floating Offshore Wind Farms And Fishing Compatibility

- Project shares experience and knowledge from experienced fishermen with FOSW engineers to evaluate designs for mutual compatibility
- Pls: E. Lozon, R. Davies, K. Ampela (NREL); E. Rzeszowski, D. Brady (UMaine)
- Funded by NOWRDC
- Report summarizing first round of interviews paused by NREL
- Pls are considering alternative publishing - perhaps as ROSA publication





FishFORWRD & Gaps Analysis Peer Review

Tricia Perez

FishFORWRD Update in January

FishFORWRD Database

Welcome Page

Research Overview

FishFORWRD Full View

Submit Project

Welcome to the **FishFORWRD Database**
Developed in Partnership by **ROSA**, **Attentive Energy**, and **WSP**



FishFORWRD | Fish and Fisheries OffshoRe Wind Database

- FishFORWRD is a catalog of all East Coast **research, monitoring efforts**, and stated **research needs** for offshore wind, fish, and fisheries.
- Included are research and monitoring funded specifically to understand offshore wind potential effects on fish and fisheries.
- The **objective** of FishFORWRD is to increase awareness of ongoing work, avoid duplication of efforts, and create a common understanding of research needs. This tool is meant for research funders, fisheries and offshore wind researchers, offshore wind developers, and the public.

How to use this Dashboard

- **Filter** projects and research needs by location, research category, methodology used, funder and more.

Total Project
Count

221

Developer
Monitoring Plan
Surveys

82

Total Unique
Research
Categories

11

Active East
Coast
Funding Entities

33

Total Identified
Needs

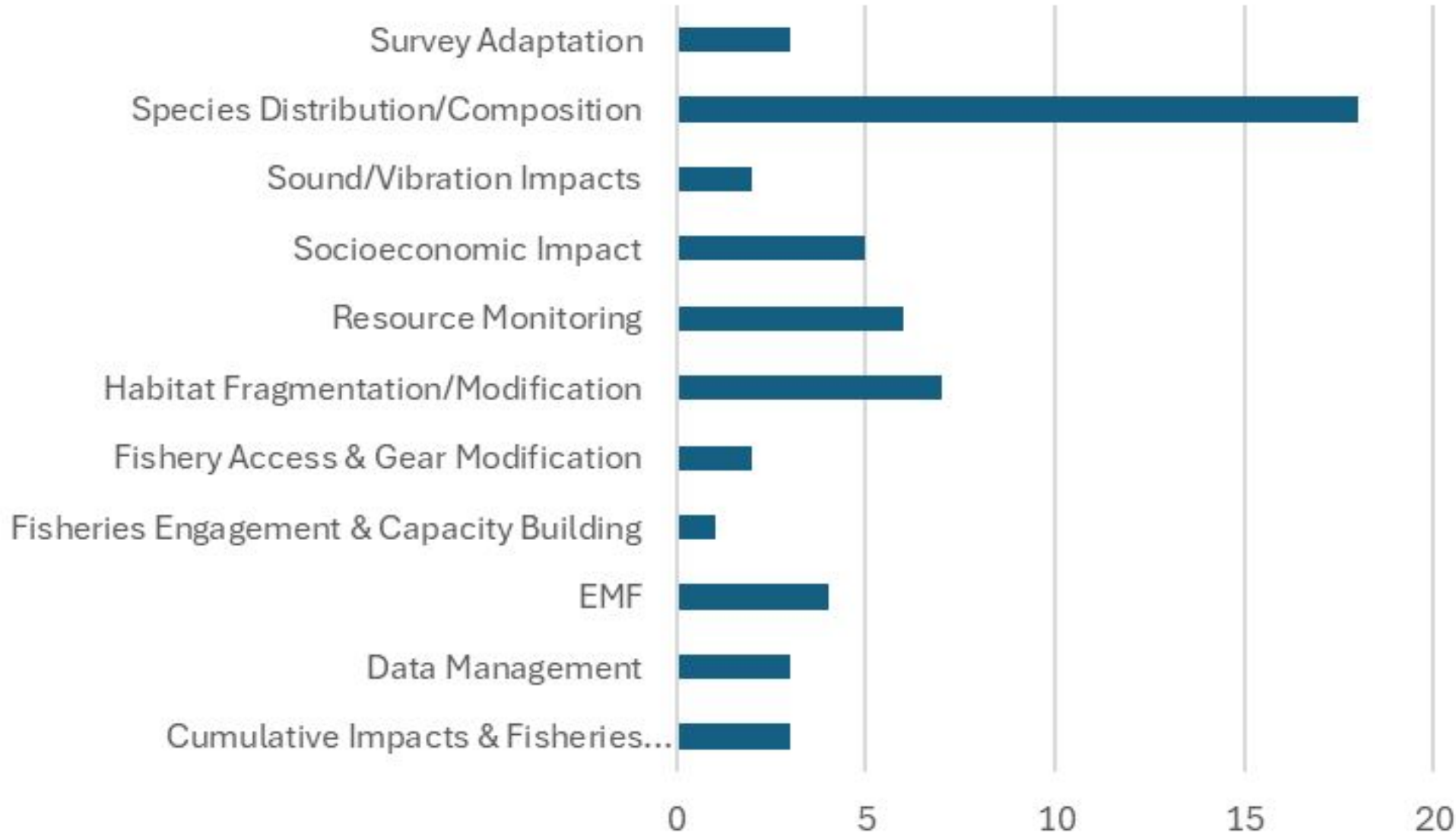
Types of
Methodologies

**54 new
projects
added!**

**Webtool
edits for
clarity**



FishFORWRD Update in January



**54 new
projects
added
across all
categories**

FishFORWRD | Fish and Fisheries OffshoRe Wind Research Database

Objective

increase awareness of ongoing work

avoid duplication of efforts

create a common understanding of research needs

Contents

Research Projects

- Research projects funded by federal agencies, state agencies, non-profits, etc.
- Implemented Developer Fisheries Monitoring Plans

Research Needs

- Individual research needs from 17 different published documents by federal agencies, states agencies, and public-private partnerships

Research Gaps Analysis (in development)

Research Categories



Habitat Fragmentation/Modification



Socioeconomic Impact



Cumulative Impacts



Sound/Vibration Impacts



Species Distribution/Composition



EMF



Fisheries Access & Gear Modification



Fisheries Engagement & Capacity Building



Survey Adaptation



Data Management



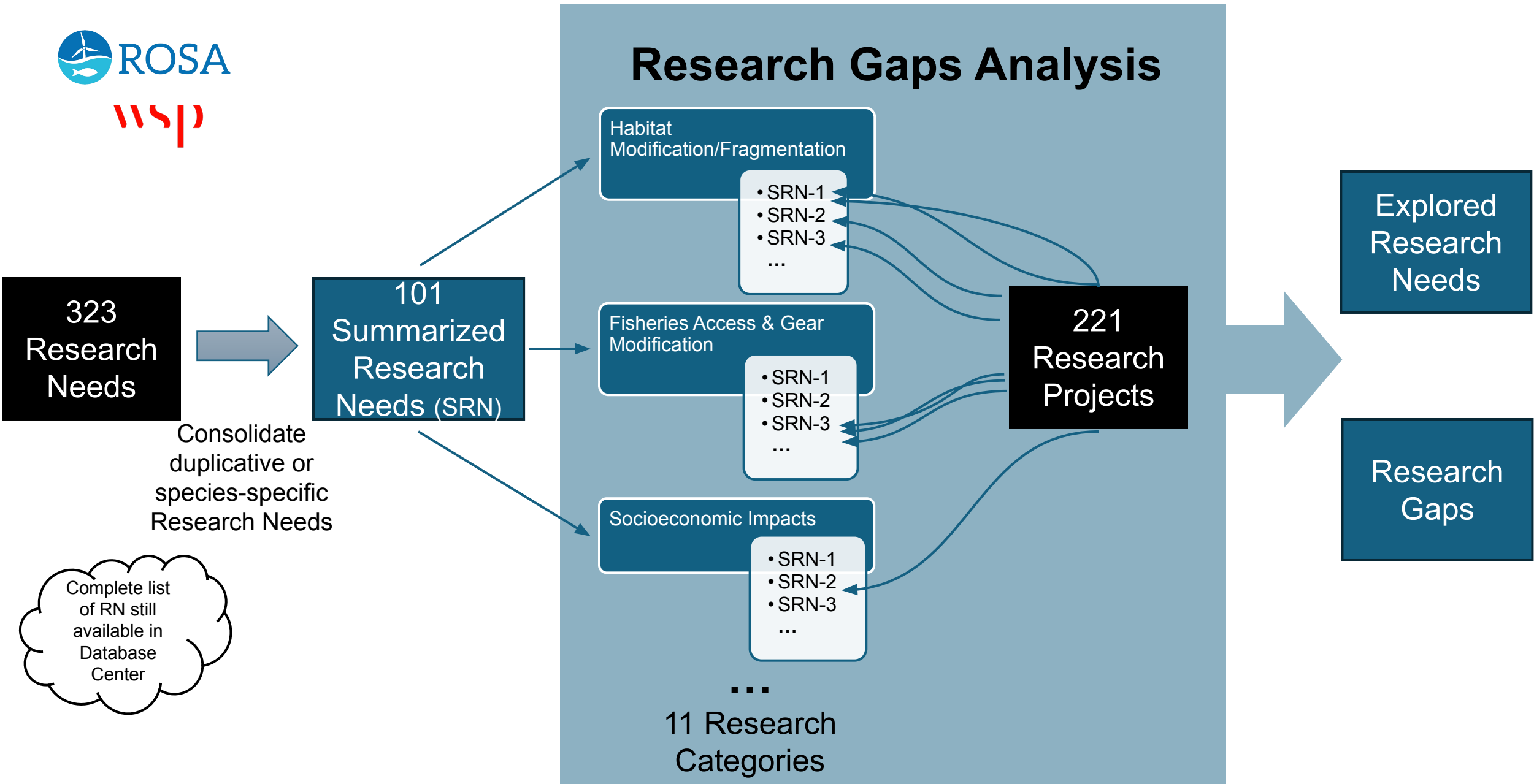
Resource Monitoring

FishFORWRD: Phase 2

Research Gaps Analysis

What Research Needs are Under Exploration?
How? On Which Receptor? By Who? Where?

What Gaps Still Remain?



PEER REVIEW

323
Research
Needs

Consolidate
duplicative or
species-specific
Research Needs

Complete list of Research
Needs pulled from 17
sources still available in
FishFORWRD Full View tab

101
Summarized
Research
Needs (SRN)

Research Gaps Analysis

Habitat
Modification/Fragmentation

- SRN-1
- SRN-2
- SRN-3
- ...

Fisheries Access & Gear
Modification

- SRN-1
- SRN-2
- SRN-3
- ...

Socioeconomic Impacts

- SRN-1
- SRN-2
- SRN-3
- ...

...
11 Research
Categories

221
Research
Projects

Explored
Research
Needs

Research
Gaps

2025 Peer Review of ROSA Gaps Analysis



Purpose

The purpose of the **Research Gaps Analysis** is to create a common understanding of progress made and research still needed to understand the impacts of offshore wind on fish and fisheries on the U.S. East Coast

The purpose of the **2025 Peer Review** is to assess the methods used to conduct the Research Gaps Analysis and validate the results.

2025 Peer Review of ROSA Gaps Analysis

Overall Process (virtual)

1. Enlist 2-3 Peer Reviewers for each research category team.
2. Send instructions and hold training
3. Reviewers will be given 2-3 weeks to independently complete their peer review
4. Team meeting to discuss results and discrepancies between the team results
5. Group Discussion meeting with all team members
6. Disseminate Results

TEAM	Research Category	Projects	Needs	Summarized Research Needs	TOTAL P	TOTAL N
1	Cumulative Impacts & Fisheries Management Implications	9	26	9	16	37
	Data Management	7	11	3		
2	EMF	11	22	8	23	51
	Sound/Vibration Impacts	12	29	7		
3	Fisheries Engagement & Capacity Building	9	21	7	44	73
	Fishery Access & Gear Modification	19	19	9		
	Socioeconomic Impact	16	33	12		
4	Habitat Fragmentation/Modification	47	79	19	47	79
5	Species Distribution/Composition	64	23	7	64	23
6	Survey Adaptation	13	21	9	46	79
	Resource Monitoring	14	39	11		

2025 Peer Review of ROSA Gaps Analysis

Action Item	Goal Date
Confirm Peer Reviewers	April
Send Instructions/Materials	Late May
Deadline to Review Categories	Mid June
Team Meetings (6)	Late June/Early July
Group Discussion	July
Final Report	August

Outcomes of Peer Review



Benefits

- Peer reviewed results by ROSA community
- Provide efficiency for funders
- Facilitate next generation of scientists and new research ideas
- Inform future developer Fisheries Monitoring Plans

Deliverables

- Final Report
- FishFORWRD Gaps Analysis Tab

Used to inform future ROSA RFP Topic Areas



Data Governance Program

Mike Pol

Data Governance Program



Goal: To develop guidance for reuse of offshore wind fisheries data, in support of future regional or cumulative impacts assessments.

Focus on data streams from methodologies used in monitoring plans and OSW research

Leveraging data expertise of Intertidal Agency

Coordinate with ROSA RFP policies and requirements and RWSC

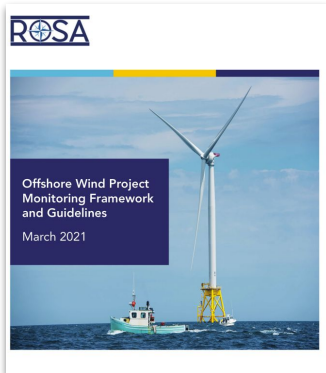
Outcomes:

- standardized data management practices
- support interoperability and reuse with other data efforts in the region

Supported by Avangrid, Ørsted, Attentive Energy, and AKRF



Data Governance Waypoints



OSW Project
Monitoring Framework
& Guidelines published

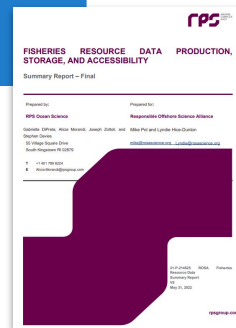
March 2021

2019

ROSA Formed

2022

Report & Recommendations
on Fisheries Resource Data
Production, Storage, &
Accessibility



Intern Project:
Investigation into Data
Accessibility and
Compatibility

2022



January 2024

RWSC Data Governance
Subcommittee Kickoff



ROSA Data Governance
Program Launch

July 2024

Scoping Phase

February 2025

ROSA Data Governance
Committee Kickoff



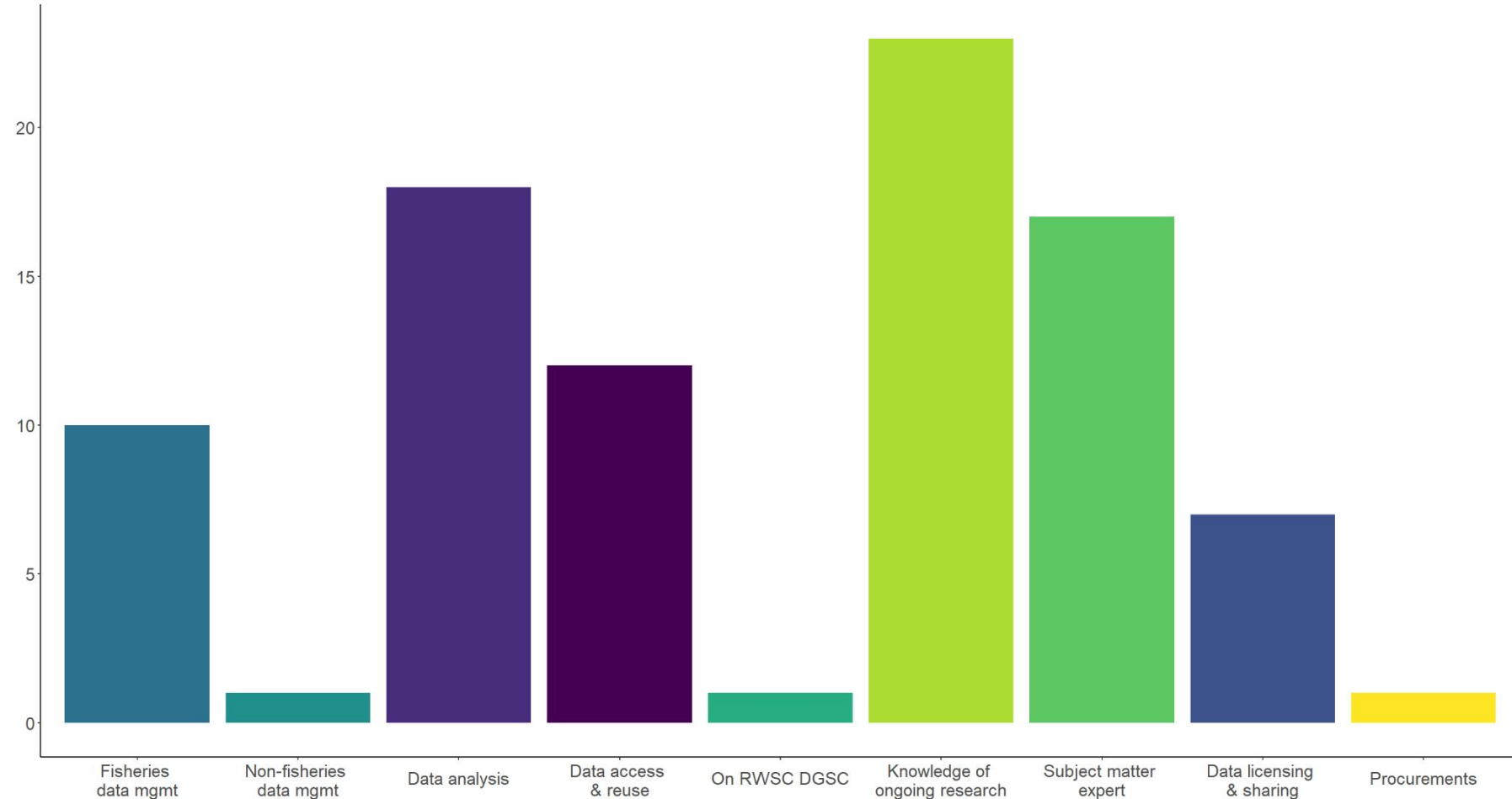
Data Governance Recent Progress



- Interviews with selected partners
- Data [glossary](#) established with RWSC
- Repository review from ROSA report
- Defined repository expectations and criteria
- Discussed regional/cumulative impact assessment framework
- Recruited Data Governance Committee
 - Kickoff meeting on February 11th
 - Working Group meetings scheduled

Data Governance Committee Kickoff

- 43 in attendance plus ROSA and Intertidal staff
 - Federal, state, regional agencies and councils
 - Developers, consultants and other commercial representatives
 - NGOs and fishing industry representatives
- Broad range of data expertise



Data Governance Committee Kickoff



- Explored existing repositories for data
 - A persistent, findable, searchable entity that provides infrastructure for long-term storage and access to data. It should provide for data publication by data holders, as well as access for using/reusing data.
- No obvious repository for fisheries-related OSW data now
 - Acoustic telemetry → OTN and nodes; ACT-MATOS & FACT-ATN
 - Passive Acoustic Data Archive
- But what about?
 - BRUV files
 - Bottom trawl surveys
 - eDNA
 - Social science data
 - and other data types...

OSW Fisheries Research and Monitoring Datasets			
Methodology	Developer Monitoring	Research	TOTAL DATASETS
Acoustic Telemetry	15	10	25
ROV/video/stills	11	5	16
Bottom Trawl	10	3	13
Trap/Pot	10	3	13
Other Fishing Gear	4	2	6
Dredge	3	2	5
Ichthyoplankton Survey	3	2	5
eDNA	2	4	6
Baited Remote Underwater Video (BRUV)	2	0	2
Gillnet	1	0	1
Social Science Methods	0	27	27
Modeling Methods	0	27	27

Higher
priority

Lower
priority

Fishing Methods Group

Bottom Trawl

Trap/Pot

Gillnet

Other Fishing Gear

Dredge

Ichthyoplankton
Survey

Image Data Group

ROV/video/stills

Baited Remote
Underwater Video
(BRUV)

drop cameras
and habcam

Acoustic
Telemetry

eDNA

Modeling

Social Science



ROSA team to dig into
FishFORWRD for more

We want work
groups to
discuss &
recommend

- Documentation (including metadata)
- Metadata standards and recommended repositories
- How to organize and structure datasets within a 'project'
- Any other specific info to be included (i.e. special fields, tags)
- Catalog of experimental designs used
- How to be good managers for our future selves
- How to preserve and publish data to answer regional or cumulative impact questions?

Working Timeline

FEB

Up to 3
work
groups
formed

MAR - JUN

Work groups draft
recommendations,
with support from
Intertidal & ROSA

JUL - SEP

drafts out for
community
comment, feedback
incorporated

OCT

v1 materials
released by
ROSA

Image Data Group



- Eleven volunteers
- Monday, Mar. 31 - 2-3 PM by Zoom

Fishing Gear Data Group



- Fourteen volunteers
- Friday, Apr. 4 - 1-2 PM by Zoom



Regional Fund Administrator



Fisheries Compensation Program
for Atlantic Coast Offshore Wind

Introduction to the Regional Fund Administrator (RFA)

ROSA Advisory Council Meeting
March 27, 2025, 1:00 – 3:45 p.m. ET

Orran Brown, Jr.
Olivia Burke



The Regional Fund Administrator (“RFA”) Team

BrownGreer

Orran Brown, Jr.
(project lead)

Independent third-party administrator emphasizing accessibility and transparency

Design and develop an equitable and transparent framework for Compensation Fund and associated claims process

Seek significant stakeholder input for feedback on design elements

Carbon Trust

Olivia Burke
(project manager)

Engagement lead for “1-2-1” conversations, caucus group meeting facilitation

Working with local engagement officers for RFA feedback

Supporting the convening of caucus group meetings during transition to the RFA

Consensus Building Institute (“CBI”)

Pat Field

Convenes the Design Oversight Committee (“DOC”)

General convening support, strategic advisement, and project management

Supports the transition to the RFA

Special Initiative on Offshore Wind (“SIOW”)

Kris Ohleth

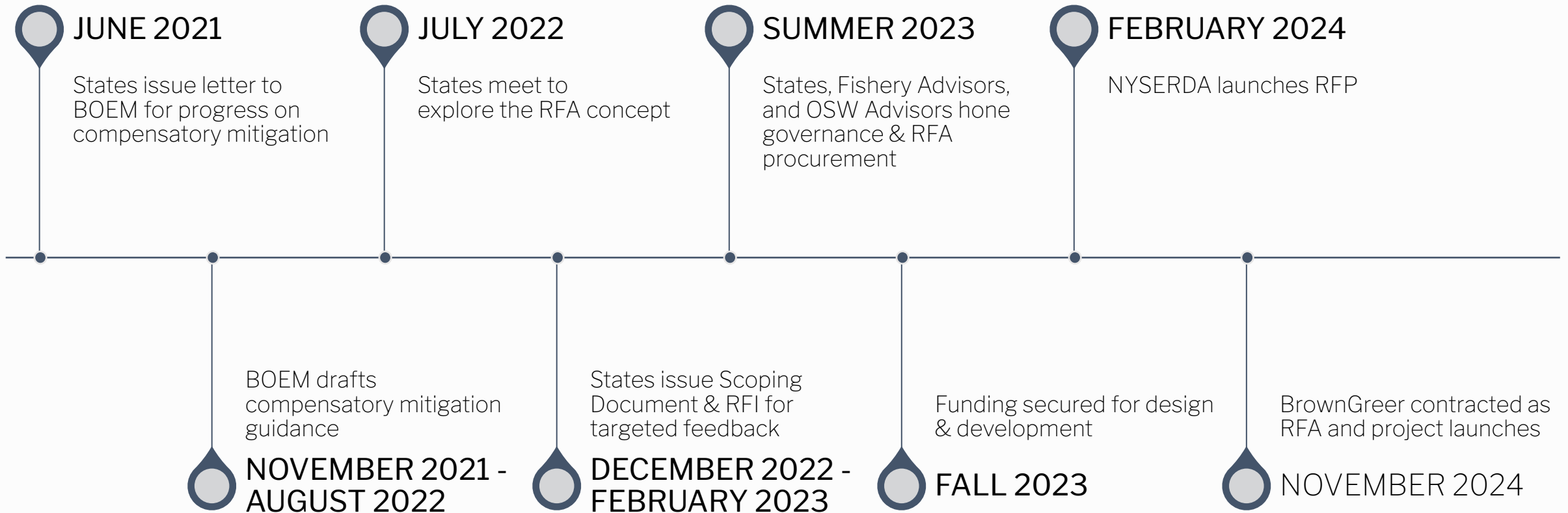
Convenes the For-Hire Committee (“FHC”)

Convenes the 11-States working group

Supports the transition to the RFA

Shares administrative and fiscal oversight with NYSERDA

RFA Origin





Our Guiding Principles

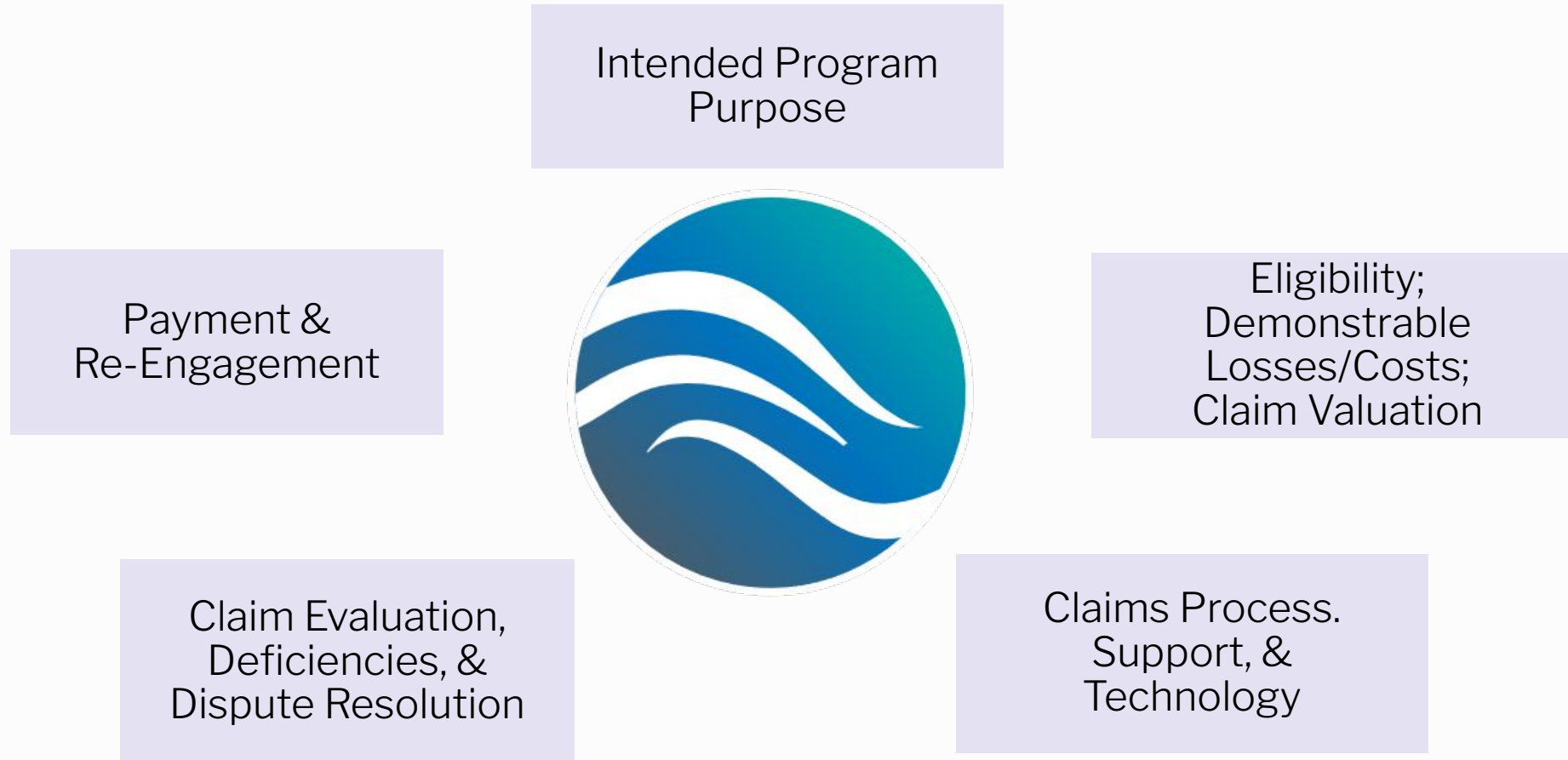
We
acknowledge the
subject's
complexity

We believe we have
a **responsibility** to
ensure our
approach is
flexible

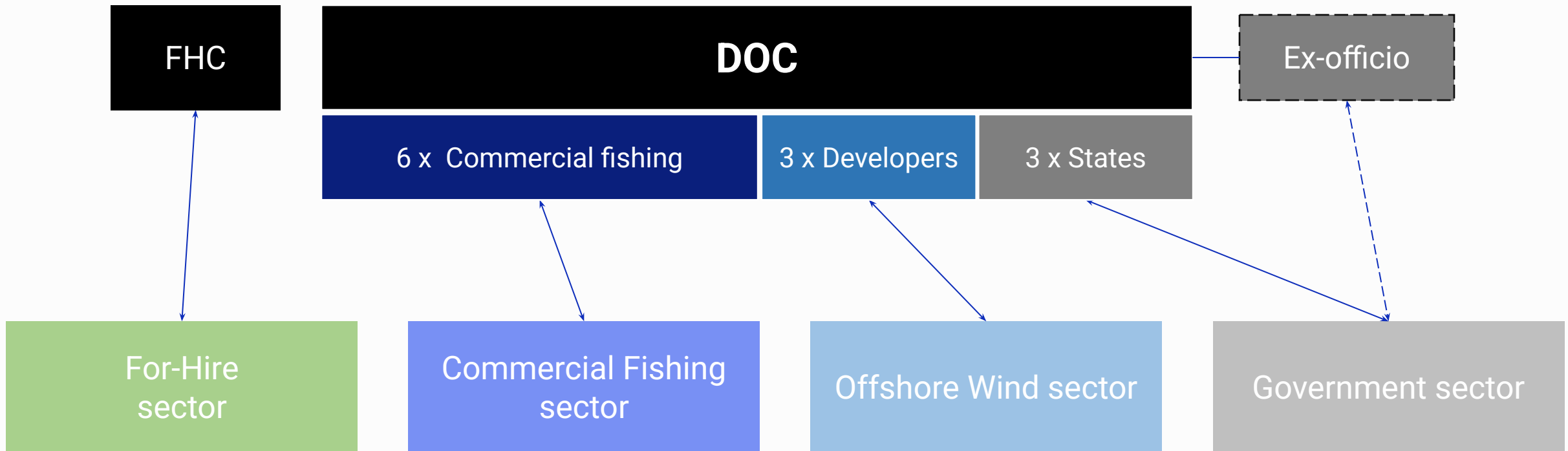
Our approach
balances
independence ,
accessibility , and
transparency

We are focused on
driving progress in
a **pragmatic** and
empathetic
manner to build
consensus

Overview of Program Components



Relevant Stakeholders for the RFA Project



- We will help to facilitate regular meetings between DOC members and their sectors
- Fisheries sector includes stakeholders from diverse fisheries, regions and ports

Project Timeline

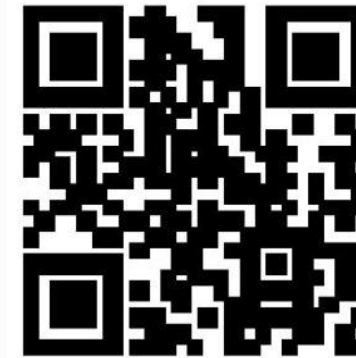
Timeline for the RFA Project - design and development of the regional compensation fund	
November 2024	Project set-up and initiation
December – January 2024	Launching the DOC / FHC, kick-off meetings, development of Terms of Reference
February – April 2025	Introducing the RFA Project to the wider sectors
May – July 2025	Consultation on eligibility
August 2025 – January 2026	Consultation on other fund components – schedule to be updated by July 2025
February – June 2026	Finalizing fund design and reporting on results

Contact Us

RFA Email Address

Contact@RFA.com

RFA Website



www.RFAInfo.com



State Updates

MassCEC Offshore Wind

Nils Bolgen
Program Director
ROSA Advisory Council Meeting
March 27, 2024



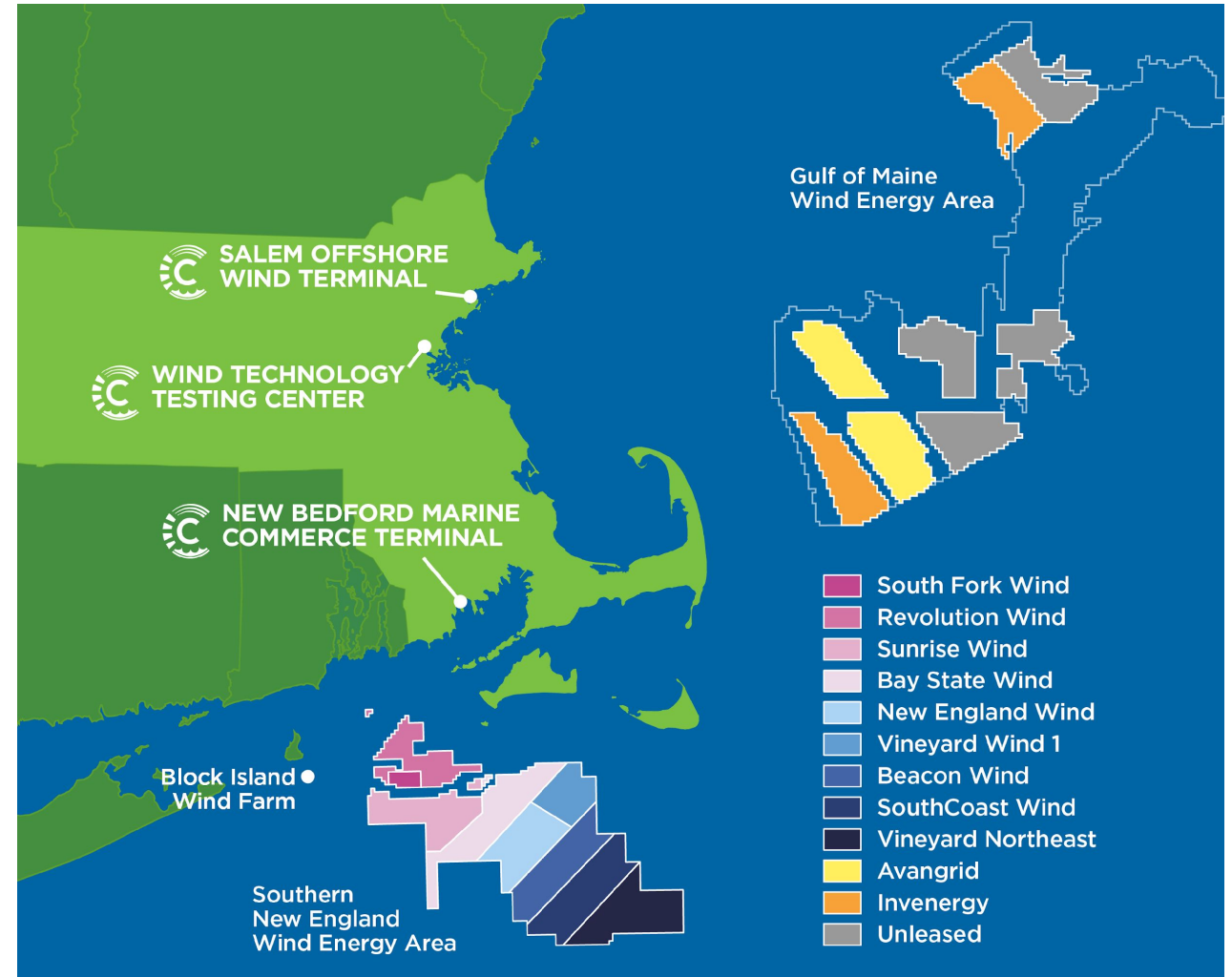
Regional Offshore Wind

➤ State goals and activities

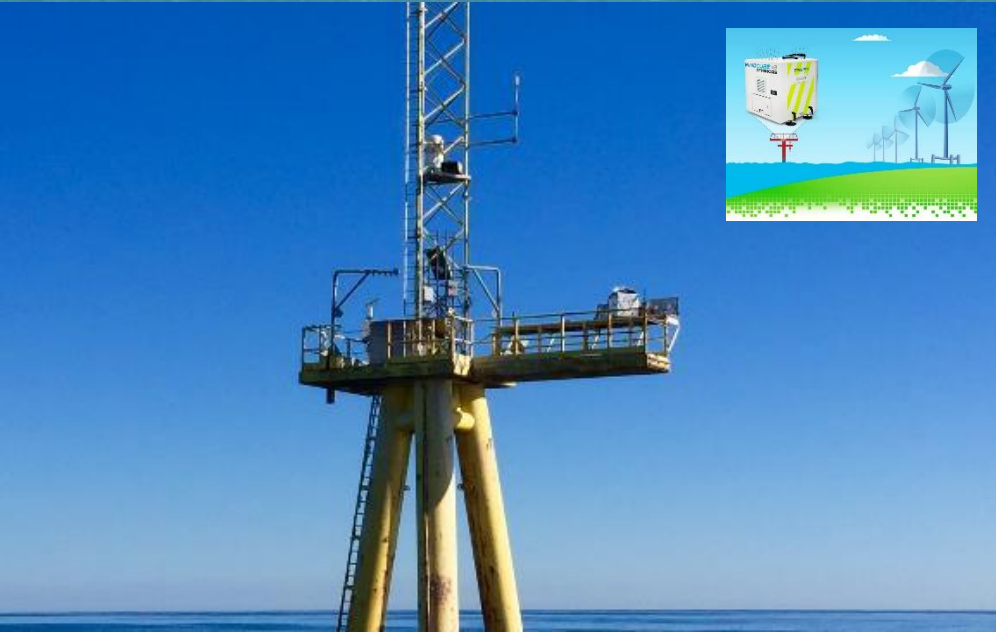
- Legislative target of 5.6 GW, procured by June 2027
- Vineyard Wind 1 in construction, 804 MW
- Current procurement:
 - SouthCoast Wind = 1,087 MW (+ 200 MW for RI)
 - Avangrid (New England Wind 1) = 791 MW
- Gulf of Maine auction in 2024: 4 leases; 2 companies

➤ Regional Pipeline

- South Fork Wind complete: 132 MW, 12 turbines, PPA w/ LIPA
- Revolution Wind offshore construction underway: 704MW, 65 turbines, PPAs w/ CT and RI
- Sunrise Wind commencing onshore construction: 924 MW, 84 turbines, PPA with NY



Offshore Wind Science & Engagement



- Wildlife surveys and studies: Advancing understanding of distribution and abundance
 - Whales, sea turtles
 - Birds and bats
 - Benthic surveys
- Regional fisheries studies
- Metocean data collection (with Woods Hole Oceanographic Inst.)
- Stakeholder engagement
 - Fisheries working group
 - Habitat working group
- Regional coordination and collaboration
 - Regional Wildlife Science Collaborative
 - Responsible Offshore Science Alliance

2024 Science and Research Solicitation

➤ Motivation

- Fill gaps
- Foster partnerships
- Grow the sector

➤ Approach

- Concept Papers ☐ Full Applications

➤ Awards

- 7 awards \$2.6M \$150k to \$675k
- Topic Areas Fisheries 3
 Wildlife 2
 Habitat 1
 Tech. 1

MassCEC OSW Science and Research: January 2025 Awards

Lead Applicant	Project Title	Topic Area	PI
Gloucester Marine Genomics Institute (Gloucester, MA)	Evaluating the Effects of Offshore Wind Development on Fisheries Using Environmental DNA (eDNA)	Fisheries	Tim O'Donnell
Gulf of Maine Research Institute (Portland, ME)	Understanding Fishing Interactions: Gulf of Maine Fisheries and Floating Offshore Wind	Fisheries	Hannah MacDonald
New Bedford Port Authority (New Bedford, MA)	Modeling Fishing and Fishing Vessel Behavior and Assessing Access in and Around Wind Energy Areas	Fisheries	Blair Bailey
INSPIRE Environmental (Newport, RI)	Promoting Beneficial Colonization of Offshore Wind Infrastructure	Habitat/Ecology	Annie Murphy
ORE Catapult (Glasgow, UK)	WINDSENSE – Wireless Intelligent Nano-Devices, a Sensor Network for Sustainable Energy	Climatetech	Dan Allington
National Audubon Society (Washington, DC)	Safe Passage: Mapping Songbird Migration Routes and Altitudes over the Atlantic to Determine Potential Impacts of Offshore Wind	Wildlife	Jill Deppe
New England Aquarium (Boston, MA)	Comparative Analysis of Marine Mammal Density and Detection Rates from Aerial Surveys	Wildlife	Orla O'Brien

Project Implementation

➤ Science Coordination

- Project-specific advisory boards
- ROSA or RWSC subcommittee
- Grantee's internal "science panel"

➤ Engagement

- Massachusetts Habitat or Fisheries Working Group
- Relevant committees of ROSA or RWSC
- Massachusetts Interagency Offshore Wind Council
- Other . . .

➤ Data Archive and Availability

- Quality assurance review
- Where stored?
- How is it accessible?

➤ Outputs

- Final Report
- Presentation Slides
- Project Summary Sheet

➤ Regional Approaches and Pooled Funding



Brad Schondelmeier
Offshore Wind and Fisheries Specialist
Mass. Division of Marine Fisheries



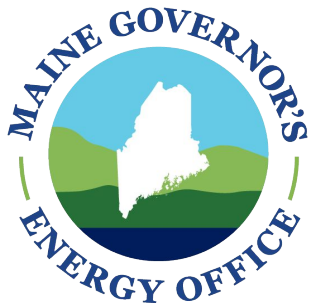


Maine OSW Research Consortium

ROSA Advisory Council

March 27, 2025

S19: Building Sustainable Offshore Wind Futures Through Collaborative Research Programs



SAMBAS Consulting LLC



Maine OSW Research Consortium

Established to better understand the local and regional impacts of floating OSW in the Gulf of Maine

The consortium includes representation from fishing industry, ocean experts, and others to inform research priorities, and will work to align with related regional and national efforts.

GOAL: develop and execute a research strategy to better understand the local and regional impacts of floating offshore wind power projects in the Gulf of Maine, including:

- Opportunities and challenges to existing uses in the GOM, including how to best support co-existence with the fishing industry
- Methods to avoid and minimize impacts on ecosystems and existing uses
- Ways to realize cost efficiencies in commercialization
- Conservation actions and projects for impacted species and habitats (NEW from LD 1895)





Research Prioritization Process

*"The Consortium aims to create a common understanding of the local and regional impacts (positive and negative) of floating offshore wind in the Gulf of Maine. The consortium may prioritize, scope, commission, and/or find collaborative partners to implement scientific studies on the **ecological, technological, economic** and **social** impacts to achieve this goal."*

We established **4** cross cutting **research areas** which addresses the **goal**

Reduce co-use conflicts
Impact on ecosystems
Socio-economic impacts and community benefit
Technology development

13 research topics developed and were prioritized, resulting in **5** short summaries with the top **3** developed into **RfPs**

1	Collection of baseline data to inform siting and understanding of the impact on commercial and recreational fisheries and ecosystems currently and historically happening in areas where arrays and transmission are proposed or sited.
2	Investigate interactions of floating offshore wind at various stages (i.e. site assessment, construction, and operations and maintenance) in regards to developing an interdisciplinary understanding of change and impact over time and space on Gulf of Maine species (baseline data and site assessment to better understand species composition, distribution and cumulative effects).
3	Technology assessment/methods to reduce co-use conflicts
4	Develop technologies to monitor and minimise impacts to wildlife.
5	Socio-economic impacts of offshore wind industry development on Maine coastal communities
6	Examine potential sensory stressors (sound, vibration, EMF) on wildlife from OSW transmission infrastructure, including pre-deployment, construction and operation, and how they can be avoided or minimised.
7	Methods to integrate and advance wildlife deterrent and ecological monitoring technology with floating offshore wind projects to minimize impacts.
8	Consider methods to optimize integration of renewable energy into the grids.
9	Necessary preparation for Maine's supply chain and workforce to support floating offshore wind.
10	Assess shoreside infrastructure and other requirements to advance industrialization of the floating supply chain.
11	Explore advancements in mooring and anchoring concepts for floating foundations.
12	Autonomous systems and validation of new technology
13	Floating wind operations and maintenance approaches to reduce costs, improve safety and increase efficiency.



Key Research Activities

2023

2024

2025

2026

Define research questions, explore gaps, scope RFPs

Round 1

RFP #1
(Nov 2023)

Initial Performance Period:
Feb 2024 - Feb 2025

Round 2

RFA #2
(Nov 2024)

Round 2 Performance Period: Varies

Round 3
(anticipated)

TBD: Research
Call

Round 3



Funded Research - Overview

	Reduce co-use conflicts	Socio-economic impacts and community benefit	Impact on ecosystems	Technology development
Round 1 (2023)	Exploring approaches to fisheries' coexistence with floating offshore wind	Socioeconomic data inventory	Seafloor Mapping in the Gulf of Maine	
Round 2 (2024)		<i>Baseline assessment of social, economic, and cultural impacts of FOW development on Maine's fishing industry</i>	<i>Baseline offshore bat monitoring assessment</i>	
			<i>Baseline secondary entanglement risk assessment and technology feasibility study</i>	



Next Steps

- Research Round 2 - Project Contracting and Project Kickoff (Spring 2025)
- Research Round 3
 - Research Prioritization (Spring/Summer 2025)
 - Research Call (Fall 2025)
- Floating Wind Study Tour (Fishermen's Trip to Scotland, May 2025)
- Continued Collaboration with Regional Research Groups

Note: all AB meetings are open to the public



Thank You!

Contact the Maine OSW Research Consortium:

Program manager: Katy Bland – katy@neracoos.org

GEO contact: Stephanie Watson - Stephanie.Watson@maine.gov

Program advisor: Laura Singer - laura@SAMBASconsulting.com

Program advisor: Olivia Burke – Olivia.i.burke@carbontrust.com

Upcoming meetings & meeting archives:

<https://www.maine.gov/energy/initiatives/offshorewind/researchconsortium>



New Jersey's Research and Monitoring Initiative (RMI) for Offshore Wind

Caitlin McGarigal, Colleen Brust, Heather Genievich
... *and many more*

New Jersey Department of Environmental Protection





New Jersey's Offshore Wind Research and Monitoring Initiative



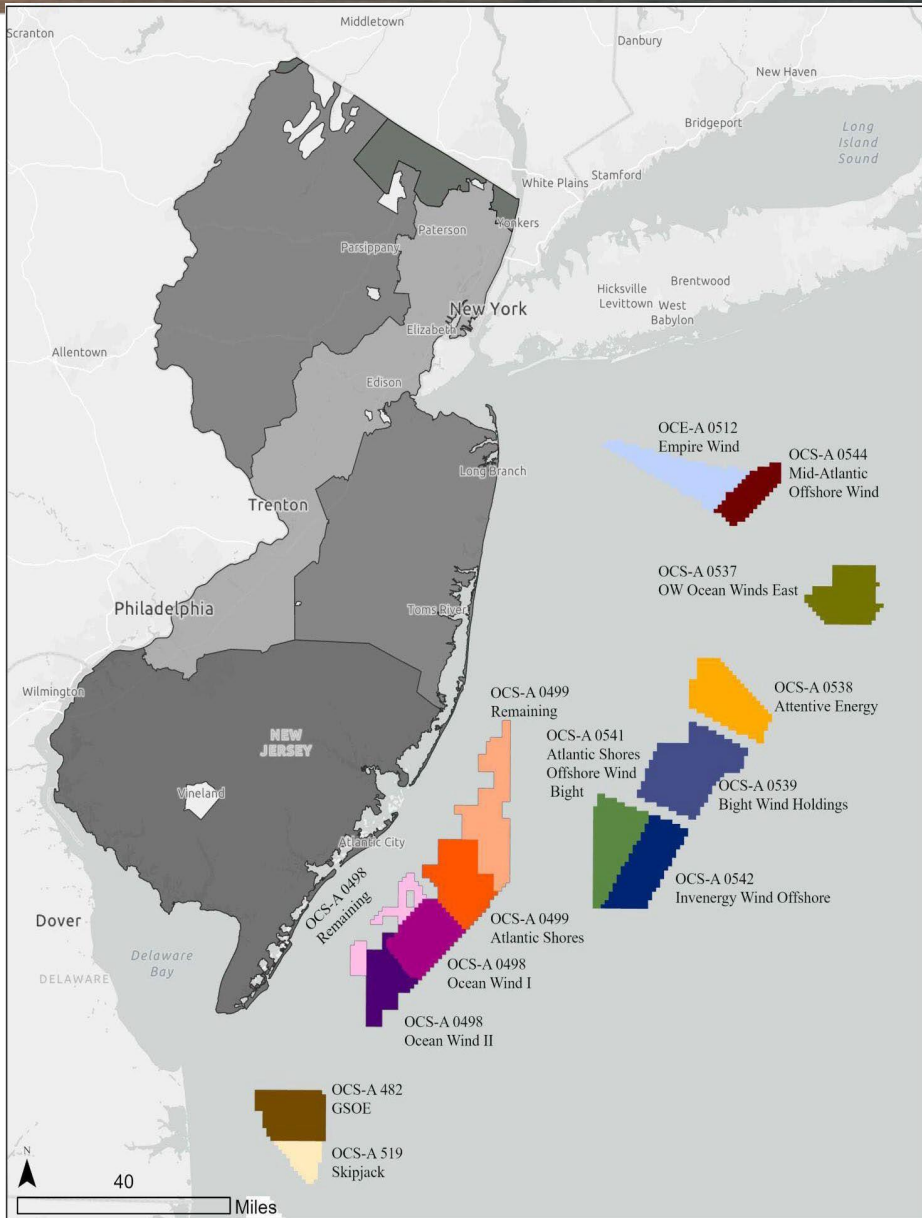
Joint
Venture



Mission Statement

The RMI addresses the need for regional research and monitoring of marine and coastal resources during offshore wind development, construction, operation, and decommissioning.

Rigorous, hypothesis-driven approach to protect & manage resources

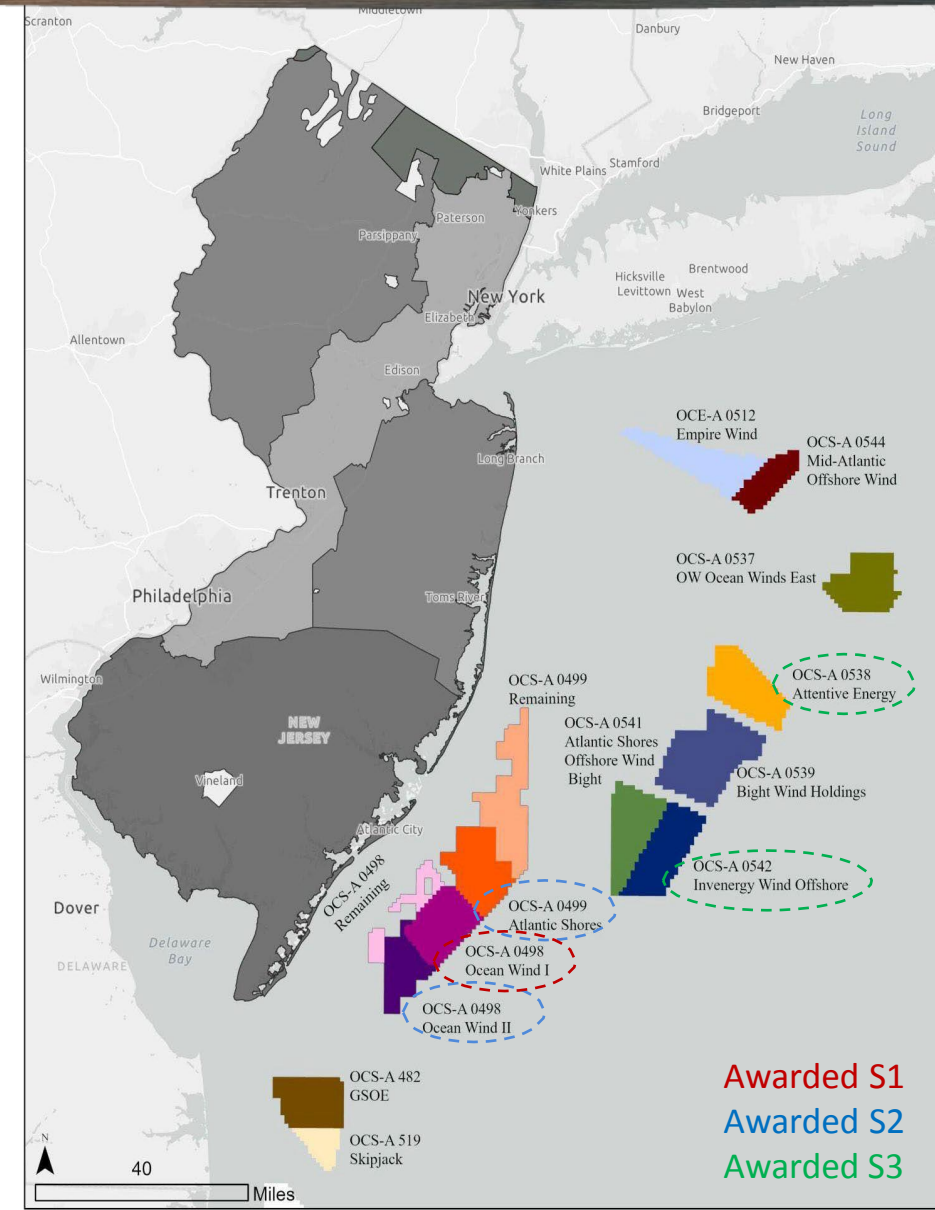




Solicitation	Maximum Capacity Target (MW)*	Capacity Awarded (MW)	Issue Date	Submittal Date	Award Date	Estimated COD
1	1,100	1,100	Q3 2018	Q4 2018	Q2 2019	2024-25
2	1,200 - 2,400	2,658	Q3 2020	Q4 2020	Q2 2021	2027-29
3	1,200 - 4,000	3,742	Q1 2023	Q3 2023	Q1 2024	2031-32
4	1,200 - 4,000*	(Cancelled)	Q2 2024	Q3 2024	Q4 2024	2032
5	1,200 - 4,000**		Q2 2025	Q3 2025	Q4 2025	2034
6	1,200 - 4,000**		Q2 2027	Q3 2027	Q1 2028	2035
7	1,200 - 4,000**		Q2 2029	Q3 2029	Q1 2030	2037
Total Awarded + Target	11,000		* The Board may award projects above or below the target ** To be adjusted based on previous solicitation results			

All awarded NJ OSW projects on hold or cancelled
Future solicitation schedule unclear (NJ Goal of 11 GW by 2030)

2025 NJ Election Year – new governor / new energy priorities?

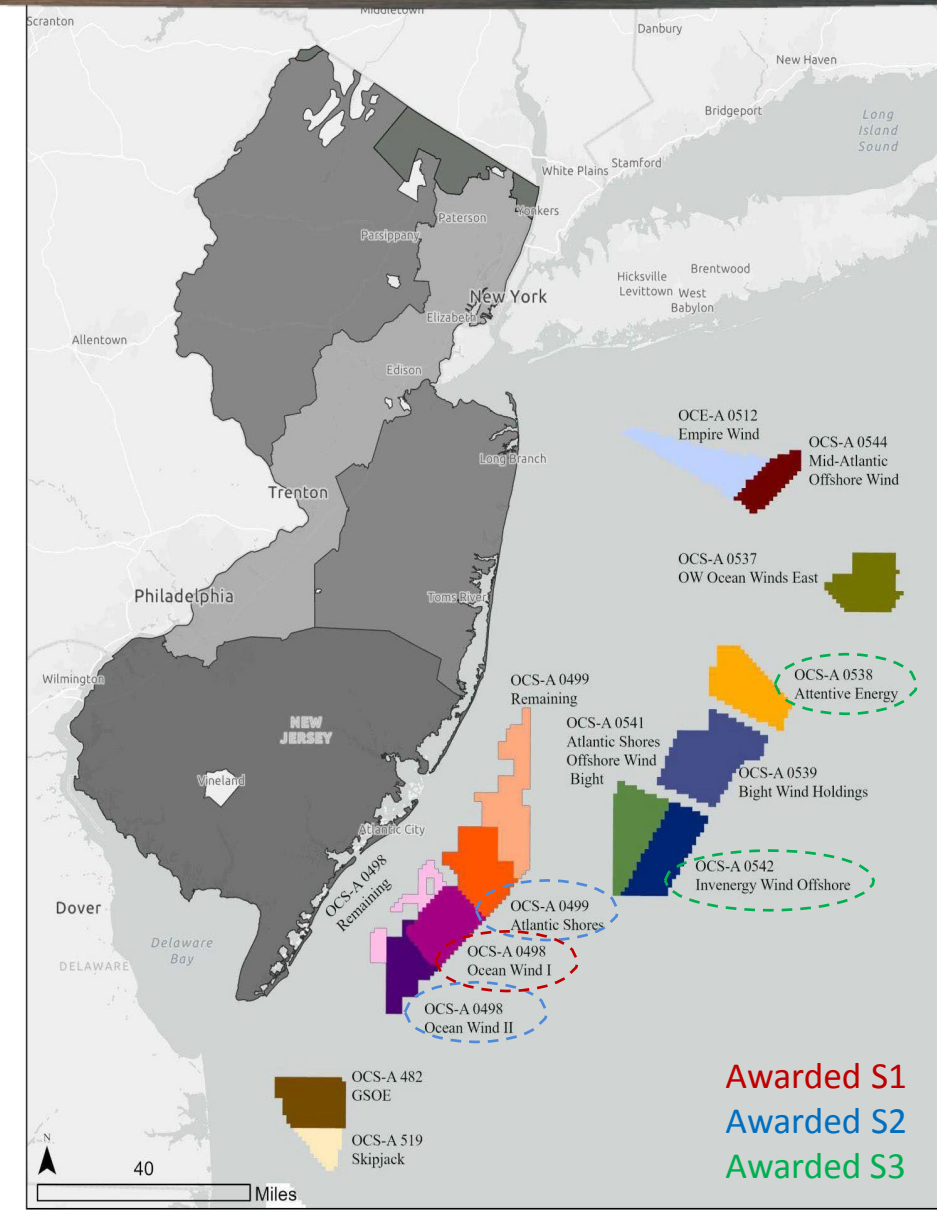




Support long-term preconstruction data sets

Regional coordination

- Consistency in permitting & monitoring requirements
- Standardization in data collection & governance
- Regional surveys





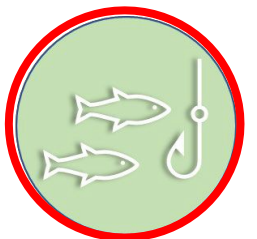
New Jersey's Offshore Wind Research and Monitoring Initiative

>\$18 Million Awarded to Current Projects

Institutional Support



Novel Surtclam Dredge & Carbonate Chemistry
(Completed)



Socioeconomics of Rec. Fisheries
(Ongoing)



Fish Community Assessment Using eDNA
(Ongoing)



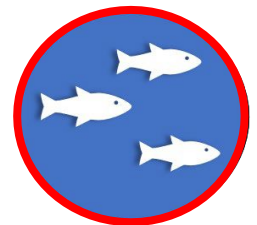
Motus Network Expansion
(Ongoing)



Whale Satellite Tagging
(In Contracting)



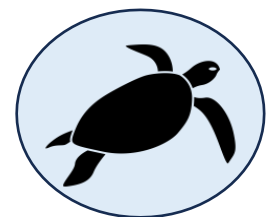
EcoGlider Environmental Monitoring
(Extended to 2028)



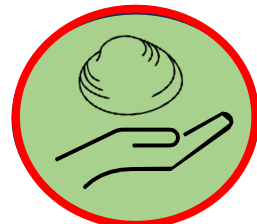
Acoustic Fish Telemetry
(Ongoing)



Harbor Seal Tracking & Health Assessment
(Ongoing)



Turtle tagging & Biological Assessment
(Ongoing)



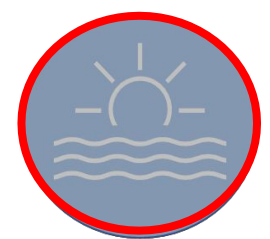
Surfclam Fishery Enhancement
(In Contracting)



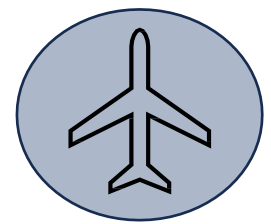
OSW Structures as Monitoring Platforms
(Ongoing)



Near Real-Time Passive Acoustic Monitoring
(Ongoing)



Turbine Foundations & Cold Pool
(Ongoing)



Cetacean Aerial Survey
(Extended to 2025)



Archival Passive Acoustic Monitoring
(In Contracting)



Multi-focus RFP
\$4.75 M
(In Review)

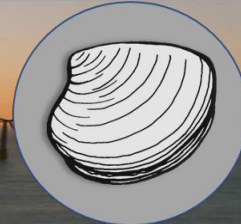
RWSC

Regional Wildlife Science Collaborative for Offshore Wind



Responsible Offshore Science Alliance





New Jersey's Offshore Wind Research and Monitoring Initiative

Novel Surfclam Dredge Calibration & Carbonate Chemistry - Completed

Dr. Daphne Munroe, Dr. Sarah Borsetti & Dr. Grace Saba (Rutgers University)

Tom Dameron (Surfside Seafood); Daniel Hennen (NOAA NEFSC)

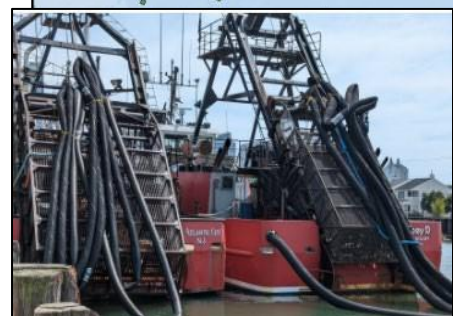
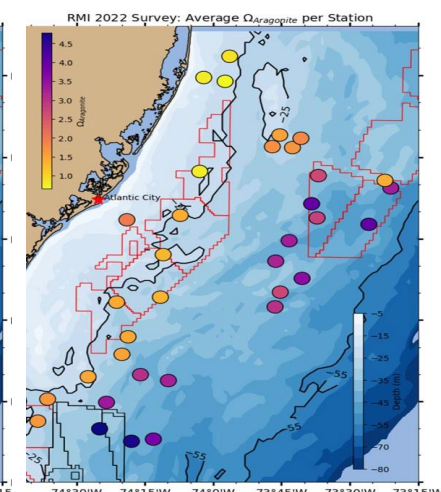
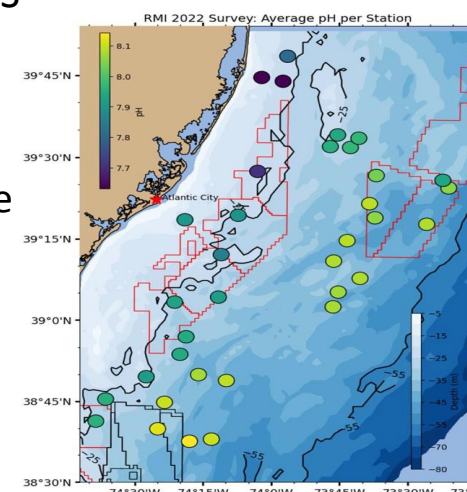
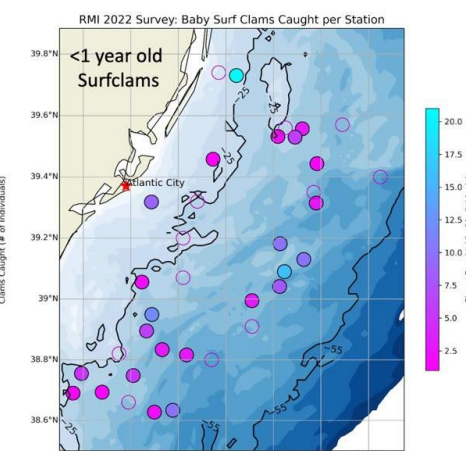
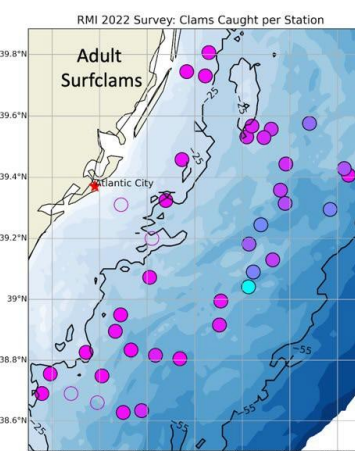
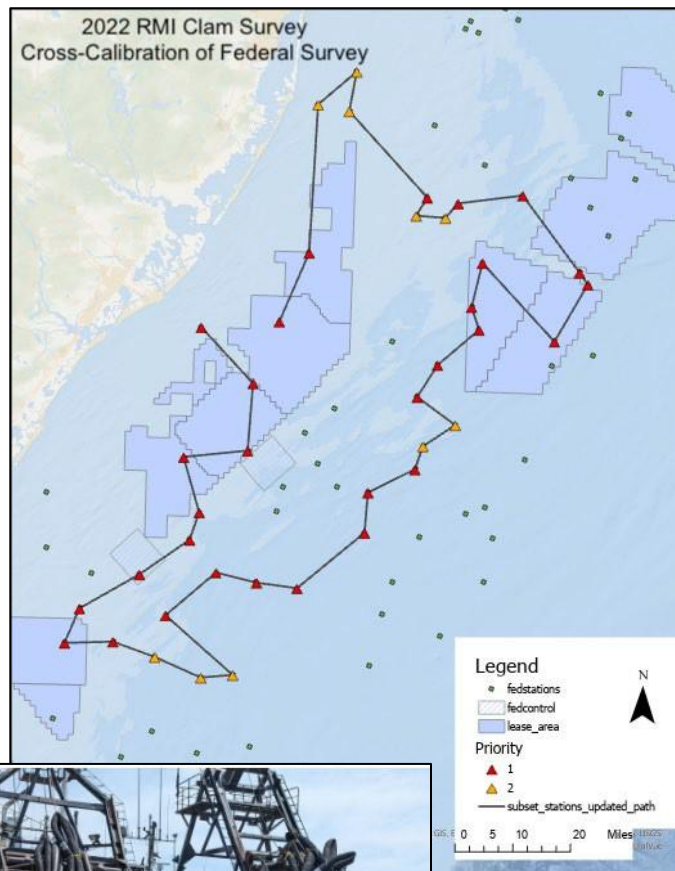
Obj 1: Calibrate experimental dredge w/ Fed dredge

Obj 2: Evaluate dredge gear performance

Obj 3: Assess biol. response to OA/bottom condition

Major Conclusions

- Surfclams (all ages) widely distributed across OCS in fishable densities
- Exp. & Fed. dredges exhibited comparable catch efficiency: Exp. dredge collected wider size range
- Environmental conditions varied but Std. shell strength correlated with age, not OA –further analyses ongoing





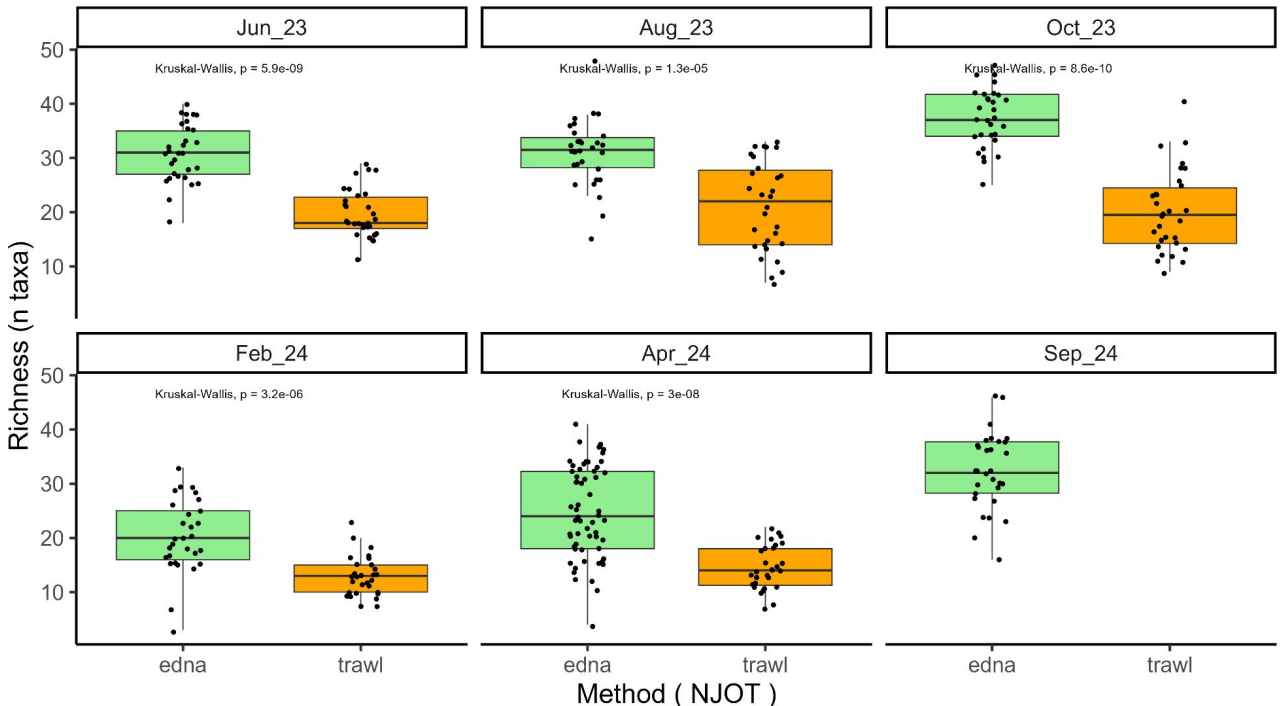
New Jersey's Offshore Wind Research and Monitoring Initiative

Assessing Fish Communities Using Environmental DNA - Ongoing

Jason Adolf & Keith Dunton (Monmouth University); Shannon O'Leary (St. Anselms College)

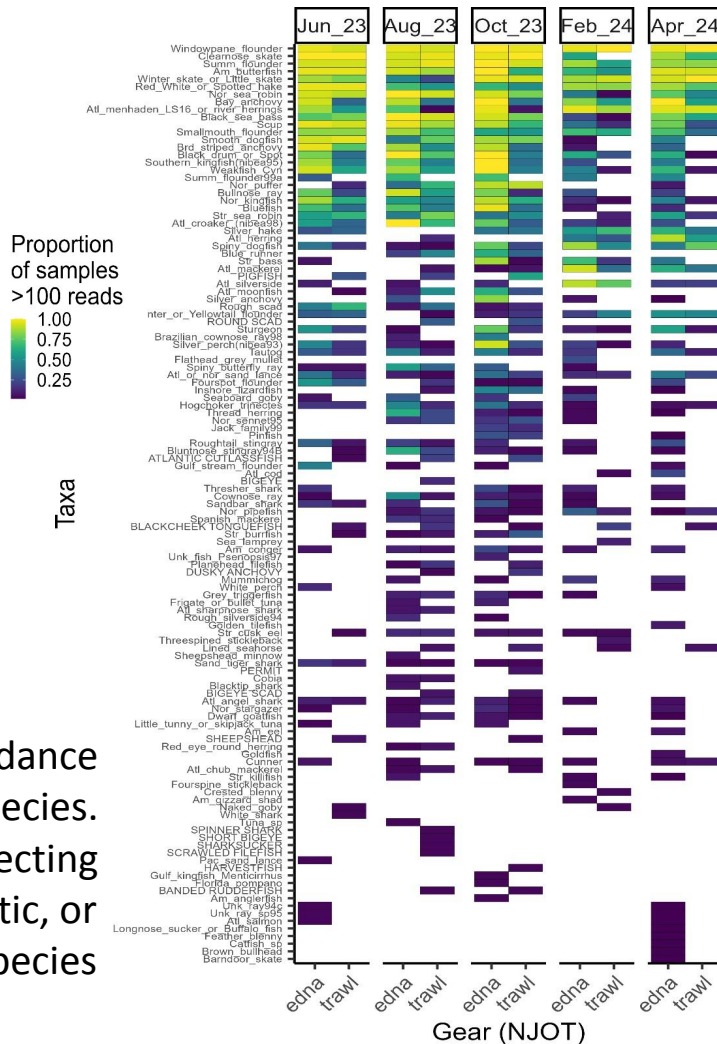
Obj 1: Refine & calibrate eDNA methods and processes

Pair eDNA with NJ-MRA fishery surveys (Ocean Trawl, Raritan Bay Inventory, AR Trap)



*eDNA consistently detects more species than trawl

*Agree on rel. abundance for top ~10 species.
eDNA better at detecting small, rare, cryptic, or hard to catch species



(Preliminary Data)



New Jersey's Offshore Wind Research and Monitoring Initiative

Assessing Fish Communities Using Environmental DNA - Ongoing

Jason Adolf & Keith Dunton (Monmouth University); Shannon O'Leary (St. Anselms College)

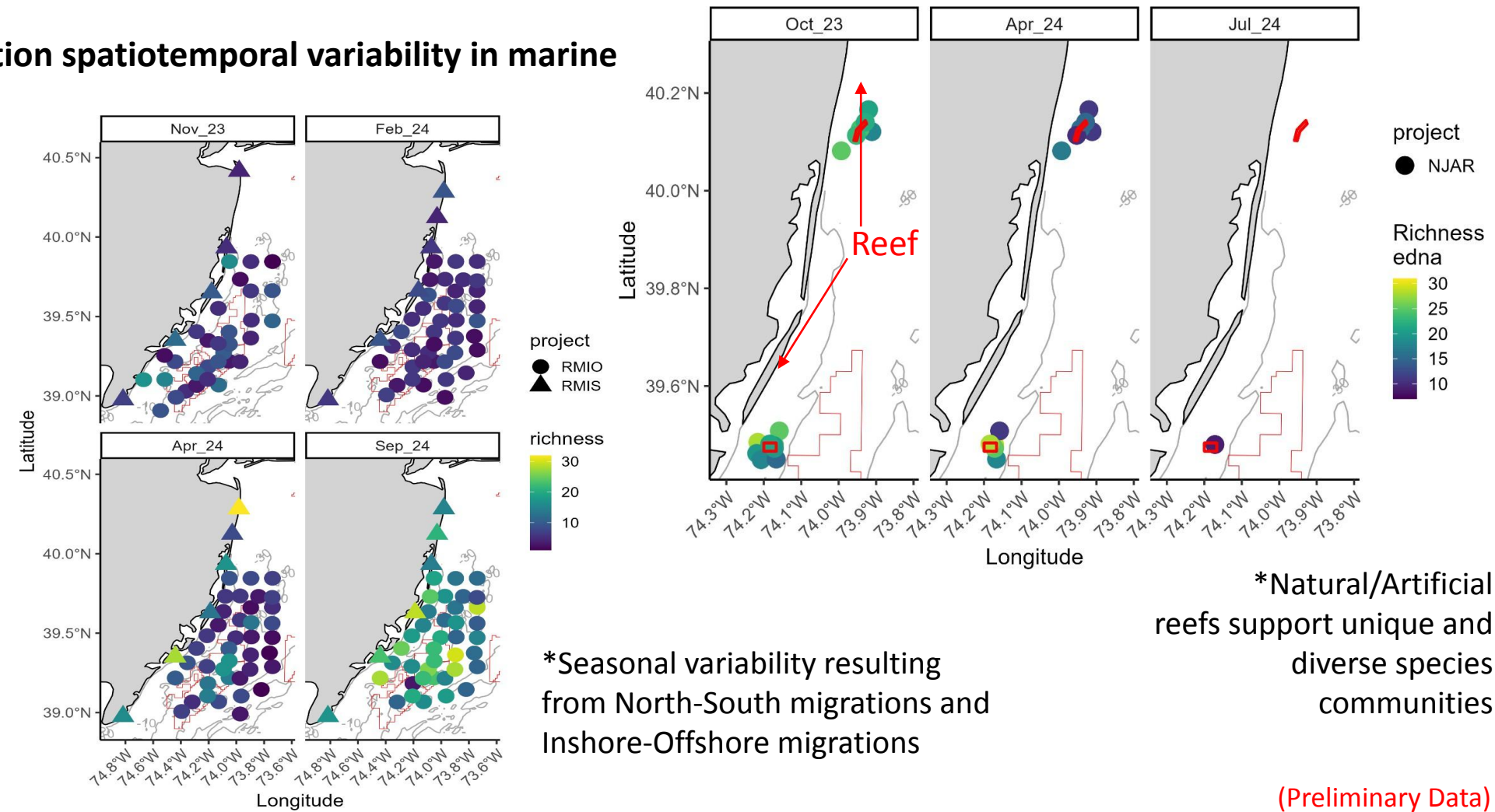
Obj 2: Evaluate preconstruction spatiotemporal variability in marine species composition

Sampling Campaigns

Surfzone citizen sampling (RMIS)

Seasonal OSW sampling (RMIO)

Acoustic telemetry sampling



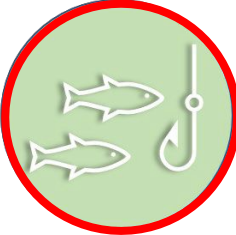


New Jersey's Offshore Wind Research and Monitoring Initiative



Novel Surfclam Dredge & Carbonate Chemistry

Completed.
Final Report available
on RMI/NJDEP webpage



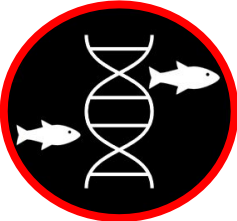
Socioeconomics of Recreational Fisheries

Ongoing.
2nd survey deployed May.
Final Report in Late '25



EcoGlider Environmental Monitoring

Ongoing/Extended.
Final Report (Y1+Y2) Fall '25
Cont. funding 2025-2028



Fish Community Assessment
Using eDNA

Ongoing.
Final Report in Late '25



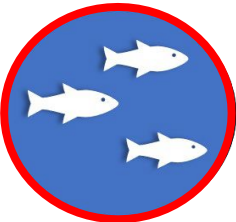
Surfclam Fishery Enhancement

In Contracting.
Lab Experiments ongoing &
field experiments planned
for Spring/Summer.



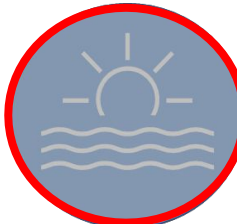
OSW Structures as
Monitoring Platforms

Ongoing.
Conceptual Plan for a
*Regional Environmental &
Ecological Monitoring
System* is in review. Final
Report Summer '25



Acoustic Fish Telemetry

Ongoing.
Final Report in Late '25



Turbine Foundations
& Cold Pool

Ongoing.
Final Report in review



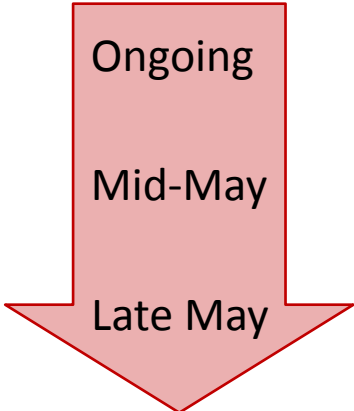
New Jersey's Offshore Wind Research and Monitoring Initiative

Request for Proposals for Addressing New Jersey's Highest Priority Research and Monitoring Needs for Environment, Wildlife, and Fisheries Associated with Offshore Wind

Focus Areas (\$4.75 M)

- Non-extractive methods for surveying wildlife and habitat
- Technological innovations in data collection, analysis, and management
- Fishery sustainability and socioeconomic impacts of OSW activities
- Identifying and reducing OSW noise impacts on marine wildlife
- Characterization of benthic ecosystems and primary productivity
- Assessing bird/bat abundance, migration patterns, & risk exposure associated w/ OSW
- Current RMI Short-term, Highest-Priority Research & Monitoring Needs

64 Proposals received!



Each proposal reviewed by 3 subject matter experts
(technical design/merit, feasibility, budget, etc.)

Review Committee ranks proposals for funding
(regional need, coordination w/ other funding entities)

RMI Steering Committee review and final selection award
(align w/ NJ RMI mission)





New Jersey's Offshore Wind Research and Monitoring

Register for
updates:



Learn more
about RMI:

Contact Us

Caitlin McGarigal, Division of Science and Research,
Caitlin.McGarigal@dep.nj.gov

Heather Genievich, Division of Science and Research,
Heather.Genievich@dep.nj.gov

Colleen Brust, Marine Resources Administration,
Colleen.Brust@dep.nj.gov

Thank

A large, powerful ocean wave is captured in the middle of breaking. The wave's crest is curling over, creating a massive wall of water. A significant amount of white foam and spray is being thrown into the air from the point of impact. The water has a deep, dark blue-green hue. The background shows the vast, choppy surface of the ocean extending to a flat horizon under a pale, clear sky. A semi-transparent teal banner is positioned across the lower third of the image, featuring the word 'Break' in a bold, white, sans-serif font.

Break



Research Updates

Synthesis of the Science: Floating

- Workshop Date: May 1, 2025
- Virtual Meeting
- Registration information will be posted to RODA's website - <https://rodafisheries.org/portfolio/sos-2-floating-osw/>
- Questions?
 - Fiona@rodafisheries.org
 - Lane@rodafisheries.org
- Topics Covered Include:
 - Floating Turbine Technology
 - Fisheries Access
 - Management Implications
 - Breakout Groups



South Fork and Revolution Wind Farm Ventless Trap Survey 2021-2024 Overview



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OF OCEANOGRAPHY

Michael Long

ROSA Advisory Council Meeting – March 27, 2025



South Fork and Revolution Wind Farms



- **South Fork Wind Farm**

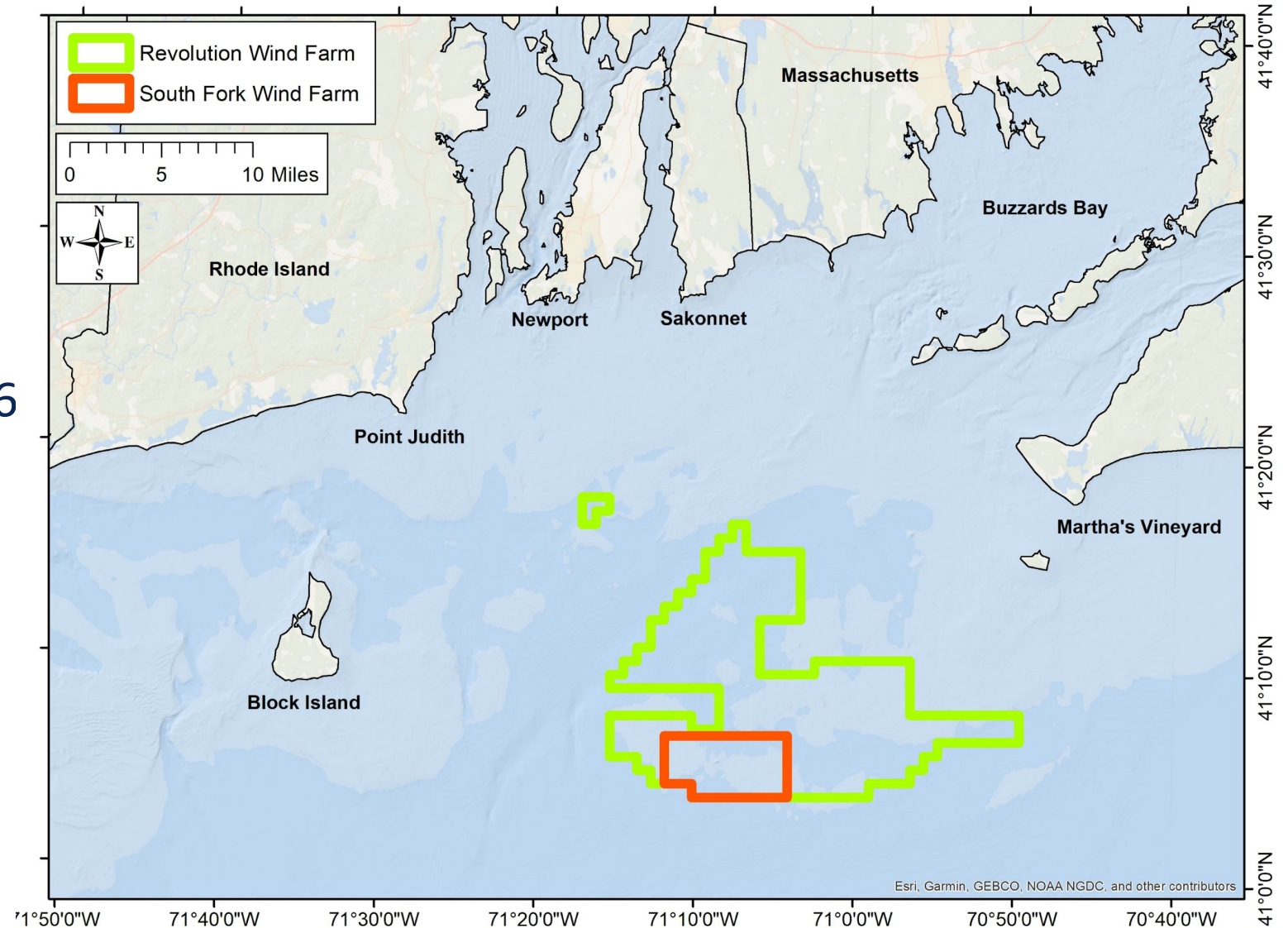
- 12 turbines
- Constructed in 2023

- **Revolution Wind Farm**

- 65 turbines
- Construction 2024 – 2025/2026

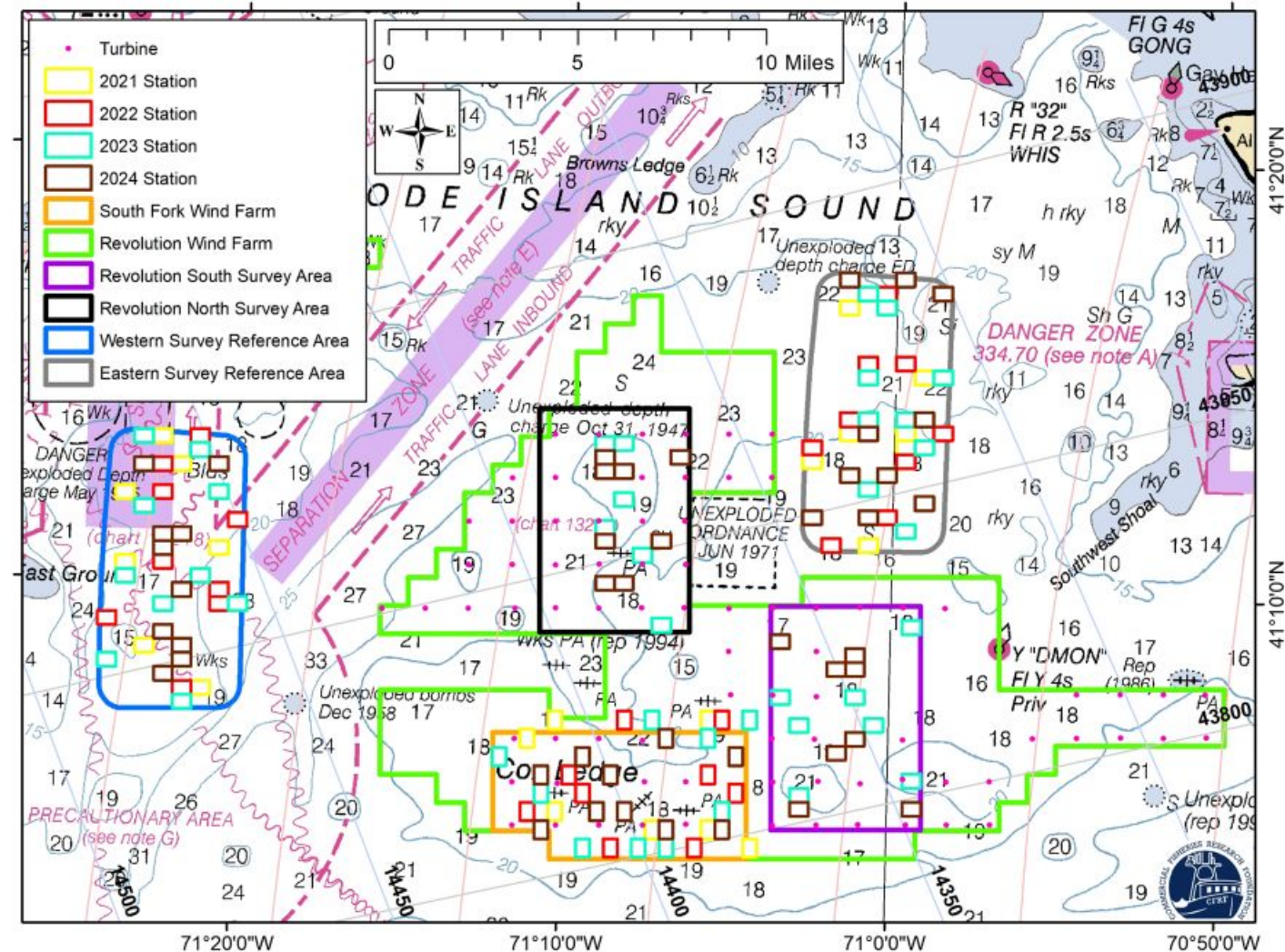
- **Fisheries Monitoring Plans**

- Acoustic telemetry
- Beam trawl survey
- Fish pot survey
- Mechanical jigging survey
- Otter trawl survey
- Ventless trap surveys



Ventless Trap Survey Timeline and Approach

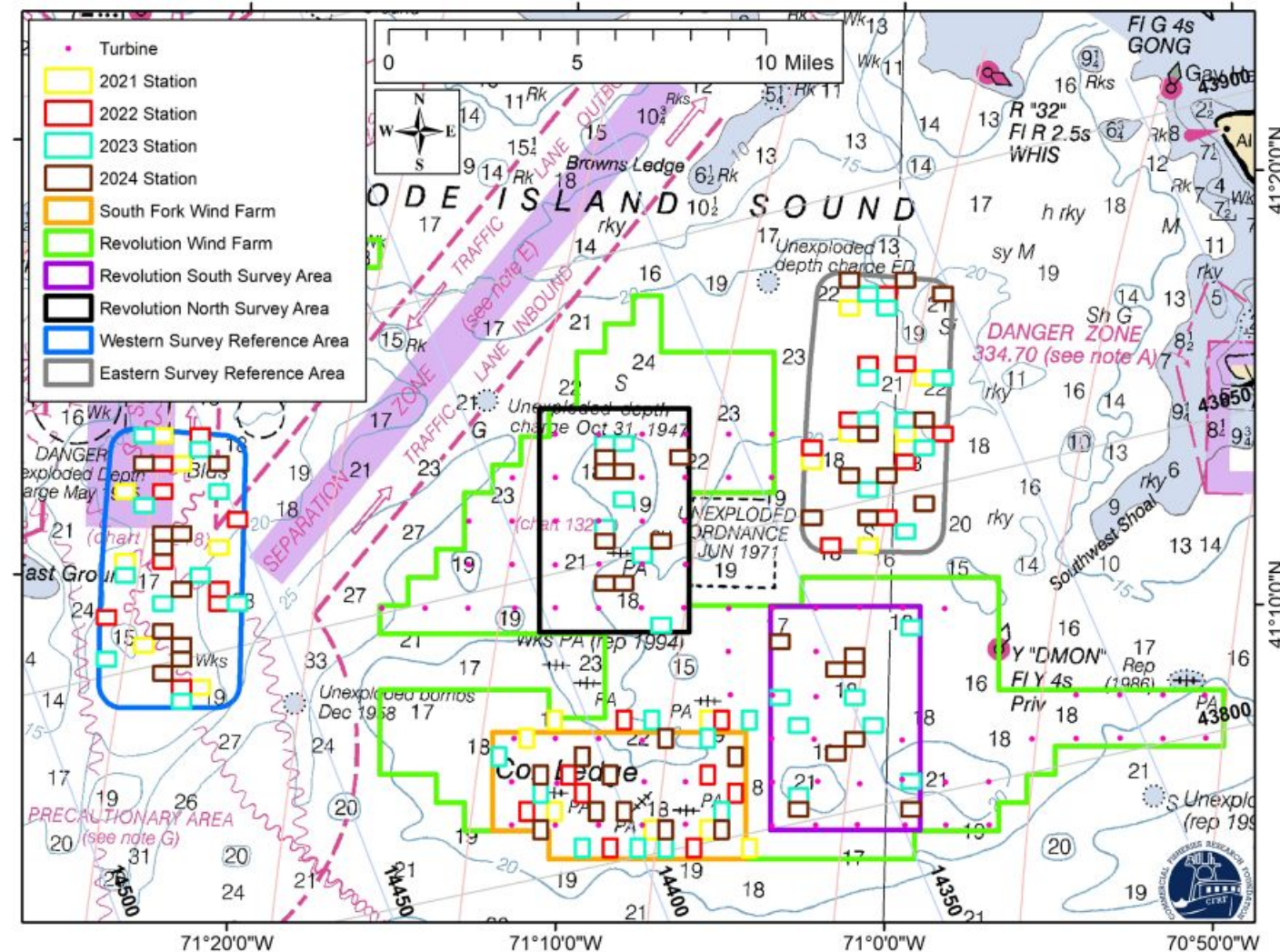
Year	South Fork	Revolution
2021	Pre-Construction	
2022	Pre-Construction	
2023	Construction	Pre-Construction
2024	Post-Construction	Construction



Ventless Trap Survey Timeline and Approach

Year	South Fork	Revolution
2014	Southern New England Cooperative Ventless Trap Survey (SNECVTS)	
2015		
2018		
2021	Pre-Construction	
2022	Pre-Construction	
2023	Construction	Pre-Construction
2024	Post-Construction	Construction

- **South Fork Wind Farm**
 - Traditional surface buoys and vertical lines
- **Revolution Wind Farm**
 - No surface buoys
 - EdgeTech on-demand ropeless systems
 - Blue Ocean Gear Smart Buoys



Ventless Trap Survey Protocols

- Sampling schedule:
 - May – November
 - 2 sampling trips per month
- Target 5-night soaks
- Each station sampled with trawl of 10 pots
 - 6 ventless traps
 - 4 standard traps
 - V-S-V-S-V-V-S-V-S-V
- Temperature loggers at all stations
- Habitat classification at all stations



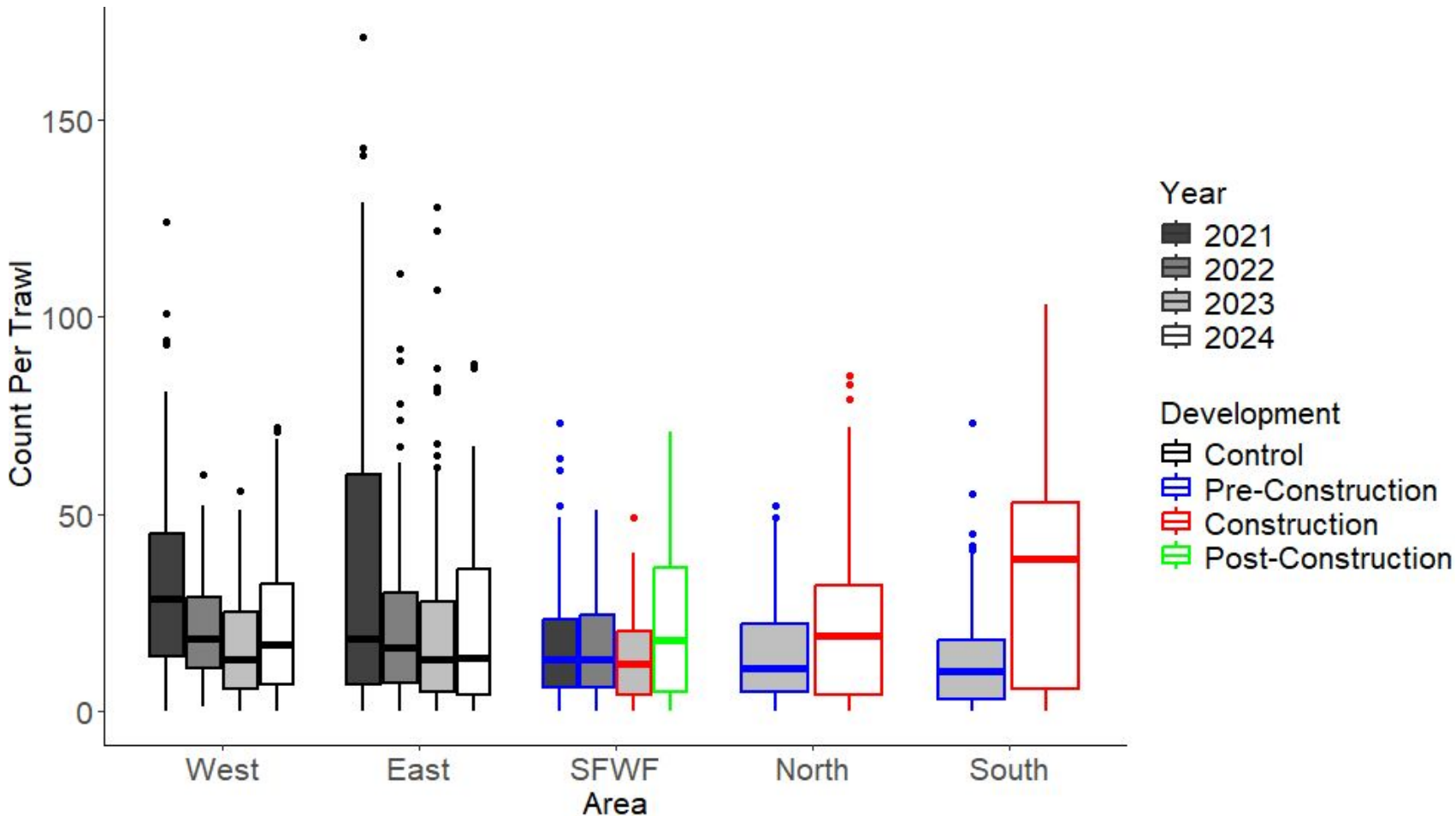
Ventless Trap Survey Protocols



- Catch speciated and enumerated at trap level
- All lobsters and finfish sampled from all traps
- 10 Jonah and 10 rock crabs subsampled from 9/10 traps per trawl
- All Jonah and rock crabs sampled from 1/10 ventless trap per trawl
- Lobster data collected:
 - Size, sex, shell disease, egg status, v-notch, cull status, shell hardness, mortality
- Jonah crab data collected:
 - Size, sex, shell disease, egg status, cull status, shell hardness, mortality
- Bycatch data collected:
 - Species, size, sex



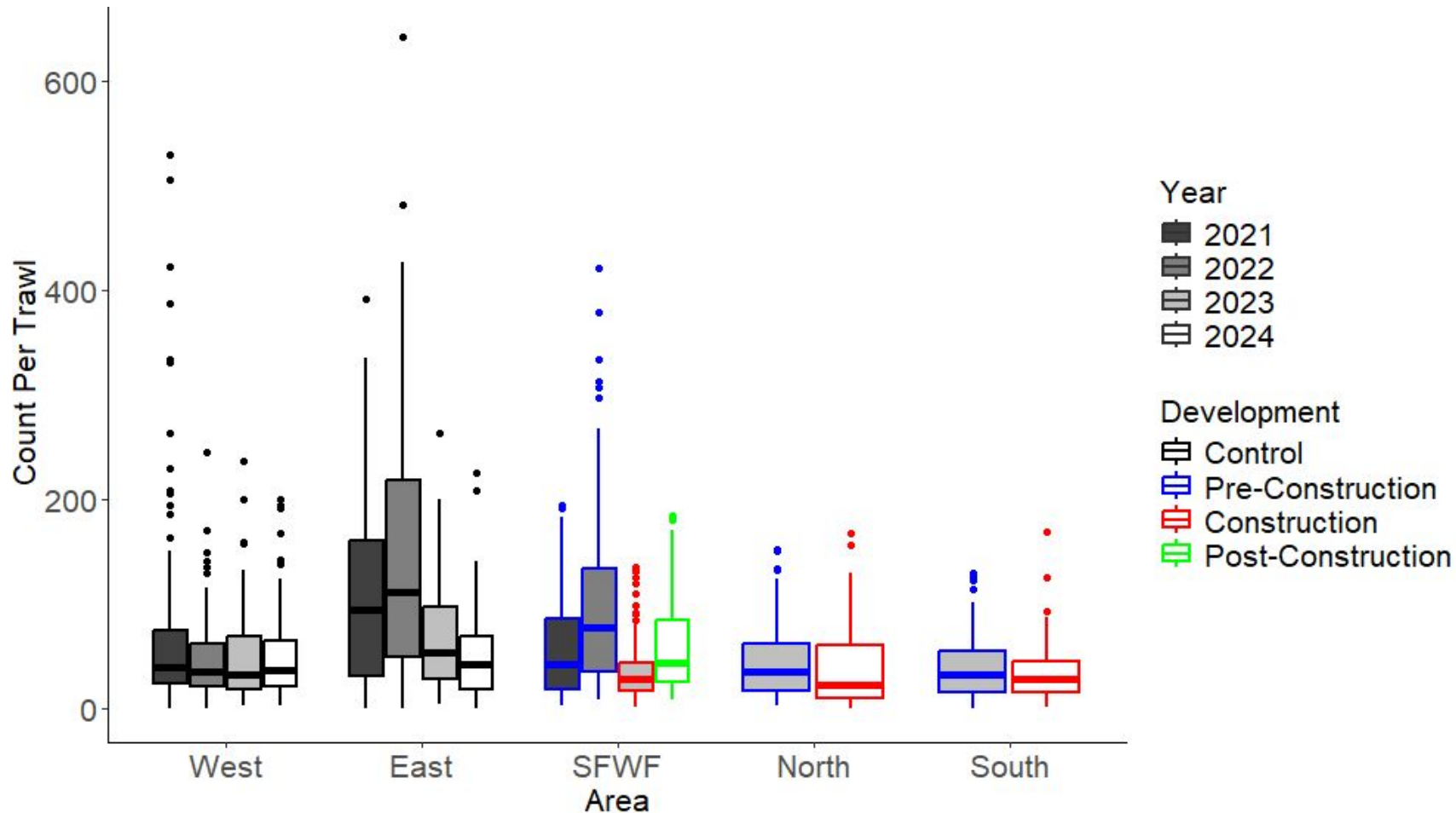
Ventless Trap Survey Results - Lobster



Lobster Abundance \sim Area +
Development Phase +
Area*Development Phase

- **West/Before (intercept): $p < 0.01$**
- **East: $p < 0.01$**
- **SFWF: $p < 0.01$**
- **North: $p < 0.01$**
- **South: $p < 0.01$**
- **West/After: $p < 0.01$**
- East/After: $p = 0.12$
- **SFWF/After: $p < 0.01$**
- **North/After: $p < 0.01$**
- **South/After: $p < 0.01$**

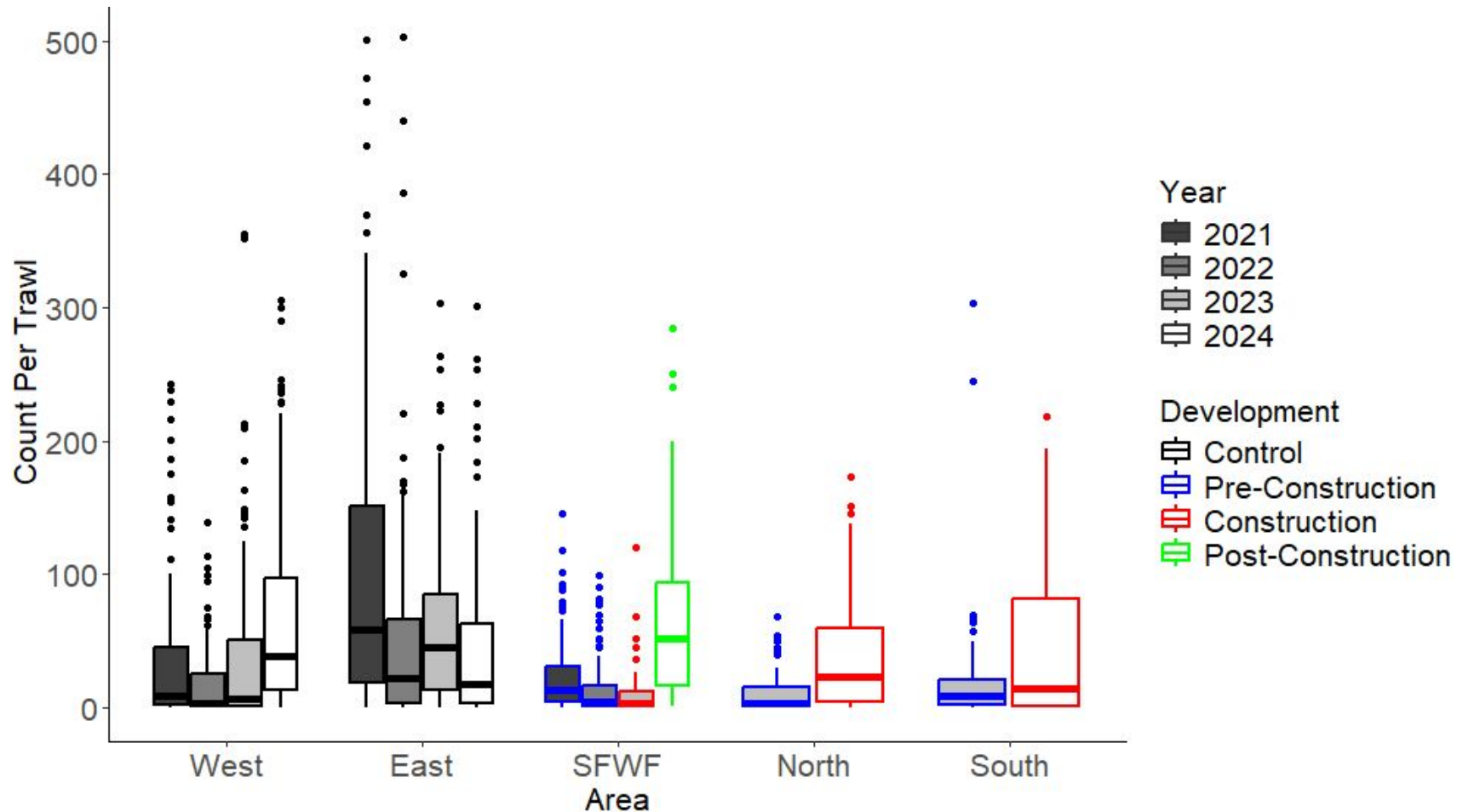
Ventless Trap Survey Results – Jonah Crab



Jonah Crab Abundance \sim Area +
Development Phase +
Area*Development Phase

- **West/Before (intercept): $p < 0.01$**
- **East: $p < 0.01$**
- **SFWF: $p < 0.01$**
- **North: $p < 0.01$**
- **South: $p < 0.01$**
- **West/After: $p < 0.01$**
- **East/After: $p < 0.01$**
- **SFWF/After: $p < 0.01$**
- **North/After: $p = 0.11$**
- **South/After: $p < 0.01$**

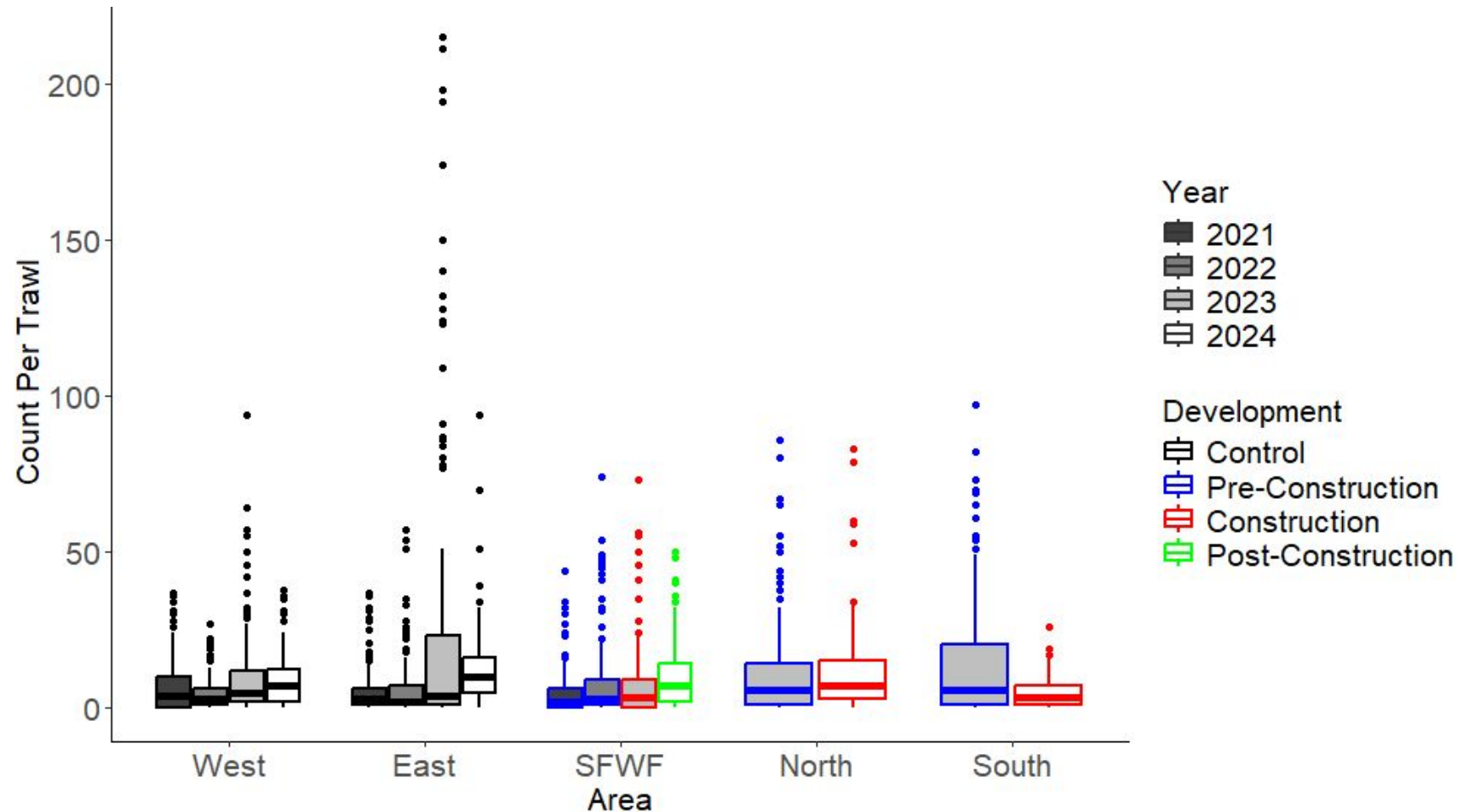
Ventless Trap Survey Results – Rock Crab



Rock Crab Abundance \sim Area +
Development Phase +
Area*Development Phase

- **West/Before (intercept): $p < 0.01$**
- **East: $p < 0.01$**
- **SFWF: $p < 0.01$**
- **North: $p < 0.01$**
- **South: $p < 0.01$**
- **West/After: $p < 0.01$**
- **East/After: $p < 0.01$**
- **SFWF/After: $p = 0.01$**
- **North/After: $p < 0.01$**
- **South/After: $p < 0.01$**

Ventless Trap Survey Results – Black Sea Bass

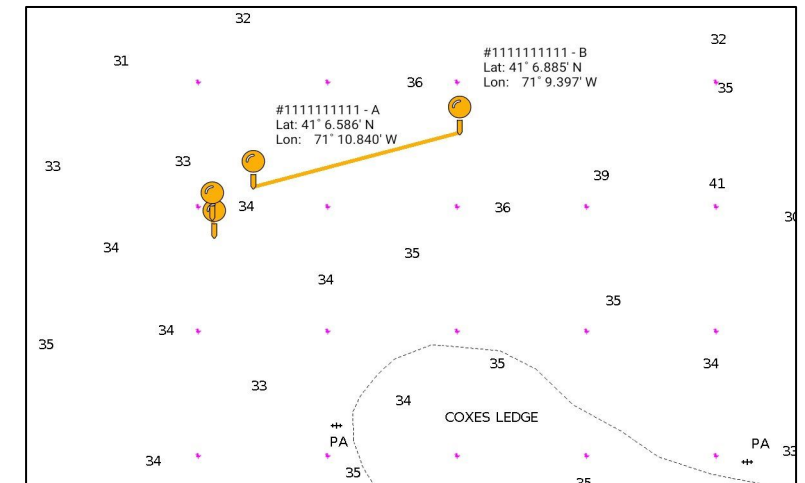


Black Sea Bass Abundance \sim Area
+ Development Phase +
Area*Development Phase

- **West/Before (intercept): $p < 0.01$**
- **East: $p < 0.01$**
- **SFWF: $p < 0.01$**
- **North: $p < 0.01$**
- **South: $p < 0.01$**
- **West/After: $p < 0.01$**
- **East/After: $p < 0.01$**
- **SFWF/After: $p < 0.01$**
- **North/After: $p < 0.01$**
- **South/After: $p < 0.01$**

Platforms for Expanded Research and Outreach

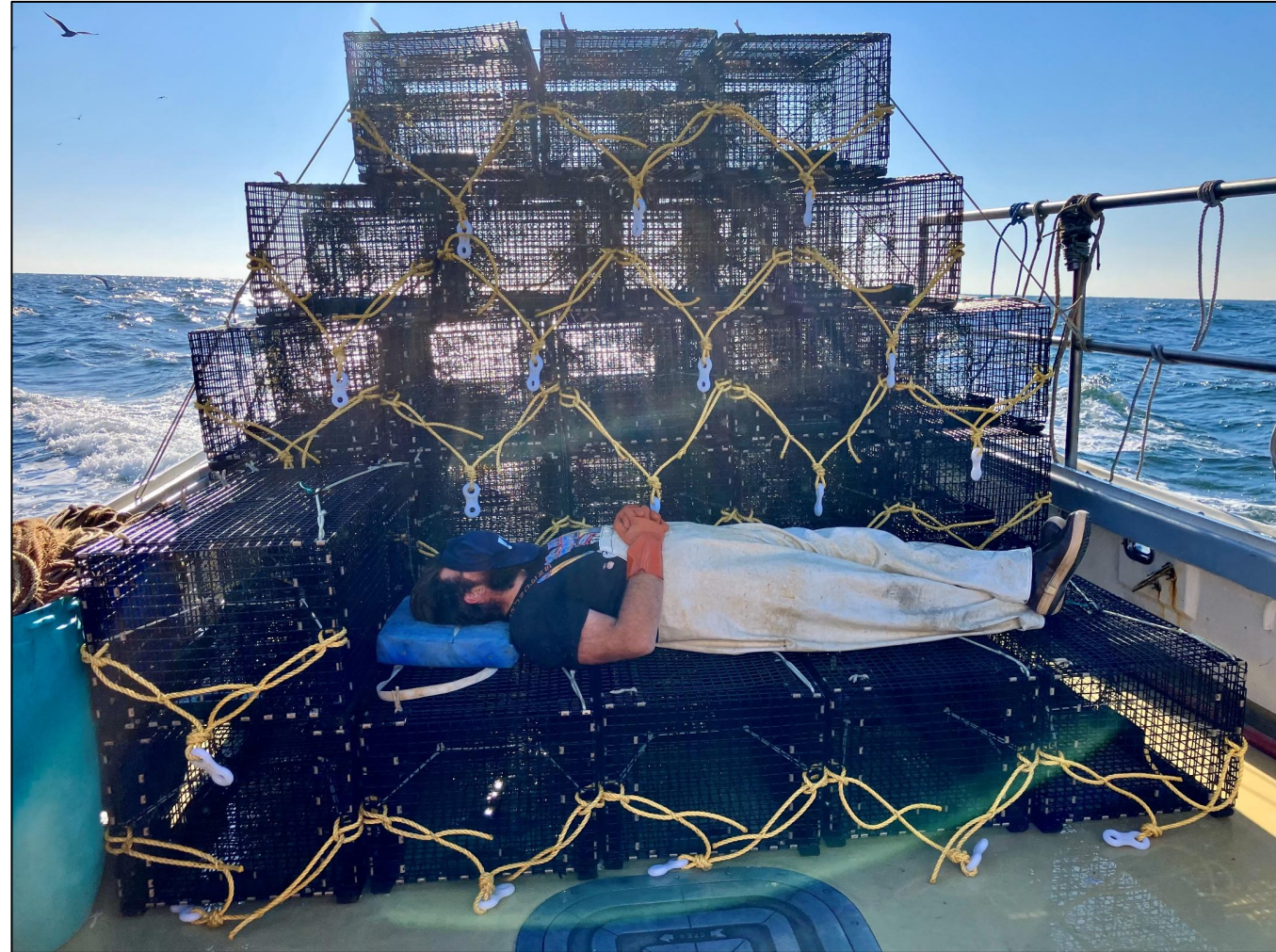
- Electronic gear marking app testing
- Acoustic telemetry tagging opportunities
- Scientific specimen collection for external studies
- Lobster soundscape and bioacoustics assessment
- Rhode Island seafood donation program



Future Plans and Closing Thoughts



- 2024 was a good overall year for SNE inshore commercial lobstering
- South Fork survey continuation through 2026
- Revolution survey continuation through 2027/2028
- Maintained industry access to data throughout and after survey periods
- Industry Outreach Day April 4, 1:30 PM, Whalers Brewery, South Kingstown, RI



Acknowledgements



- Greg Lisi, F/V Amelia Anne, Point Judith, RI
- Brian Thibeault, F/V Ashley Ann II, Point Judith, RI
- Mark Sweitzer, F/V Erika Knight, Point Judith, RI
- Emmanuel Oyewole, University of Rhode Island
- Annabelle Leahy, University of Rhode Island
- Nathan Shivers, University of Rhode Island
- Andie Painten, UMass Dartmouth SMAST
- Bella Travers, UMass Dartmouth SMAST
- Greg DeCelles, Orsted
- Kyle Cassidy, Orsted
- Chris Sarro, Orsted



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 Orsted



Action Items, Next Steps, and Other Business



- Upcoming ROSA Events
 - Data Governance WG meetings next week

Image Data WG
Monday, Mar. 31
2-3 PM



Fishing Gear
Data WG
Friday, Apr. 4
1-2 PM



- American Fisheries Society Annual Meeting, San Antonio, Aug. 10-14
 - Visit the ROSA booth
 - Offshore Wind, Fish and Fisheries Symposium - please submit an abstract by April 15th.



← Link to abstract submission site

Action Items, Next Steps, and Other Business

RWSC RFPs: proposals.rwsc.org/rfps

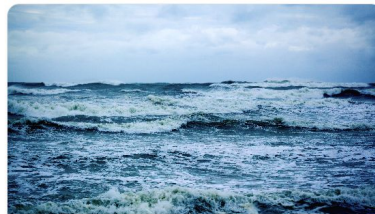
- Support for regional monitoring and research for marine wildlife and habitat in U.S. Atlantic waters (Apr. 1)
- Conduct Passive Acoustic Monitoring and Data Management to Support the POWERON Initiative (Apr. 7)

Requests for Proposals

February 27, 2025

RWSC is pleased to announce two separate funding opportunities that will advance key objectives of the collaboratively developed [Science Plan](#).
Read the announcements on the [RWSC news page](#).

See below for more information about each opportunity and instructions for potential applicants:



Support for regional monitoring and research for marine wildlife and habitat in U.S. Atlantic waters

RWSC will allocate approximately \$3.4 million in



Conduct Passive Acoustic Monitoring and Data Management to Support the...

RWSC is seeking an eligible contractor to conduct

Save the Date!

SAVE THE DATE

MARINE TECHNOLOGY SOCIETY

TECHSURGE

FISHERIES & BENTHIC MONITORING

OCTOBER 8-9, 2025
UNIVERSITY OF RHODE ISLAND
NARRAGANSETT, RI



- Advancements in benthic mapping technologies
- The use of technology to transition from traditional survey methods, including highlights on new innovations
- Monitoring technologies applicable to offshore development
- A panel featuring perspectives from members of the fishing community





ROSA
Responsible Offshore
Science Alliance

Thank you!

ROSA Advisory Council
June 18, 2025 - 1pm ET