



**ROSA**  
Responsible Offshore  
Science Alliance

# **ROSA Advisory Council**

## **September 25, 2025**

# Agenda

- |               |   |
|---------------|---|
| <b>1:00pm</b> | <b>Welcome, Introductions, Agenda Review</b>        |
| <b>1:05pm</b> | <b>ROSA Mission Amendment (+ breakout groups)</b>   |
| <b>1:35pm</b> | <b>Readout from breakouts</b>                       |
| <b>1:50pm</b> | <b>Regional Research &amp; Monitoring Program</b>   |
| <b>2:20pm</b> | <b>Fine Scale Funder Coordination</b>               |
| <b>2:30pm</b> | <b>Break</b>  |
| <b>2:40pm</b> | <b>Partner Updates</b>                              |
| <b>3:20pm</b> | <b>ROSA Updates</b>                                 |
| <b>3:50pm</b> | <b>Action Items, Next Steps, and Other Business</b> |
| <b>4:00pm</b> | <b>Adjourn</b>                                      |



A large, powerful ocean wave is captured in the middle of a crash, with white foam and spray visible at the crest. The water is a deep blue-green color. The background shows the horizon line under a pale sky. A semi-transparent teal overlay covers the bottom third of the image, featuring the text 'Mission Amendment' in white, bold, sans-serif font.

# Mission Amendment

# Mission Amendment

The Responsible Offshore Science Alliance (ROSA) is a nonprofit organization that provides for and **advances regional scientific research, monitoring and understanding of fisheries and the interactions with blue economy<sup>†</sup> activities** in state and federal waters of the U.S. through collaboration and cooperation. We serve as an objective resource for all sectors and facilitate the coordination of regional scientific research to collaboratively and efficiently deepen understanding.

ROSA's work currently focuses on the waters from Maine to North Carolina.

*<sup>†</sup>The **blue economy** is defined as a sustainable and equitable ocean and coastal economy that optimizes advances in science and technology to create value-added, data-driven economic opportunities and solutions to pressing societal needs. (NOAA)*





# **Breakout Groups**

## 20 minutes for Discussion





# **Breakout Group** Readout & Discussion

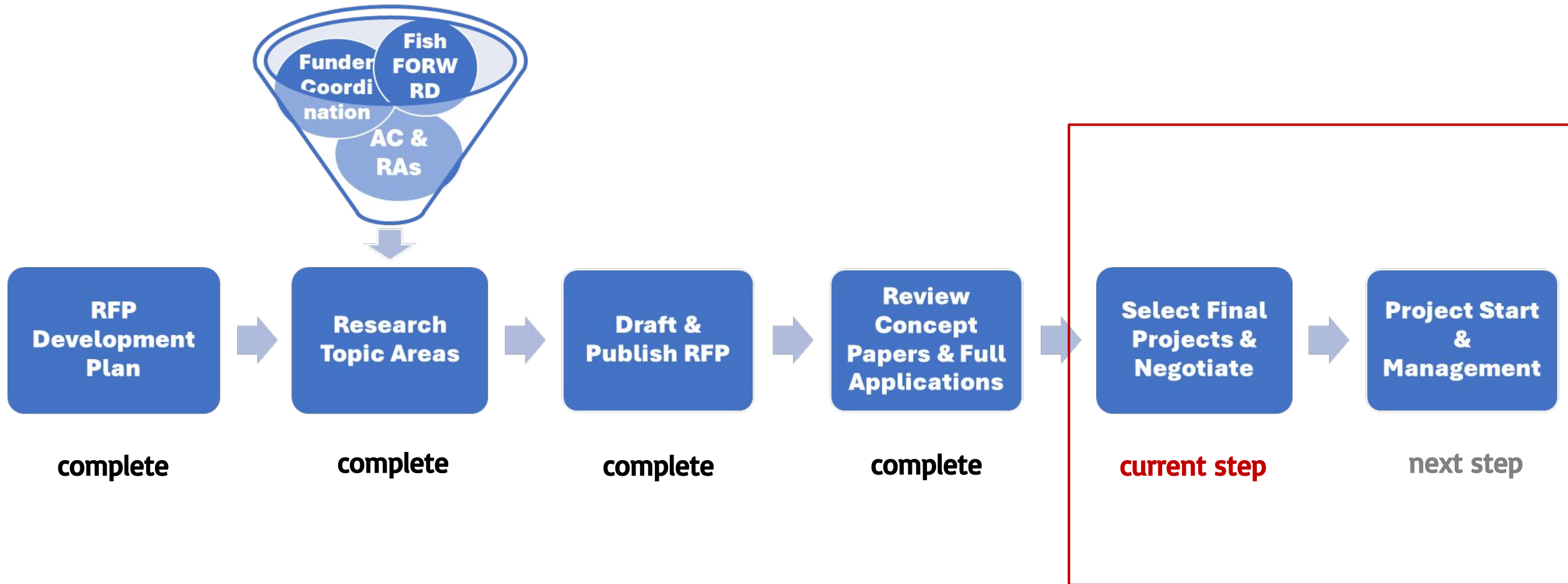




# **Regional Research & Monitoring Program**

Tricia Perez

# ROSA RFP Development Process





# RFP 01: Advancing Regional Solutions for Fisheries and Offshore Wind

Topic Area	# Projects Selected
Supporting Fisheries Access	3 PROJECTS
Understanding Potential Offshore Wind Impacts to Larval Fish	1 PROJECT
Fisheries Monitoring: Data Integration, Evaluation, & Analysis	6 PROJECTS

**10 projects selected**

48 Concept Papers

24 Full Applications

23 Full Applications

**ROSA**  
Regional Research & Monitoring

*Please note that the projects are not considered formally awarded until a contract has been fully executed by ROSA and the selected research entities, therefore the project awards and obligation of funds is not final.*

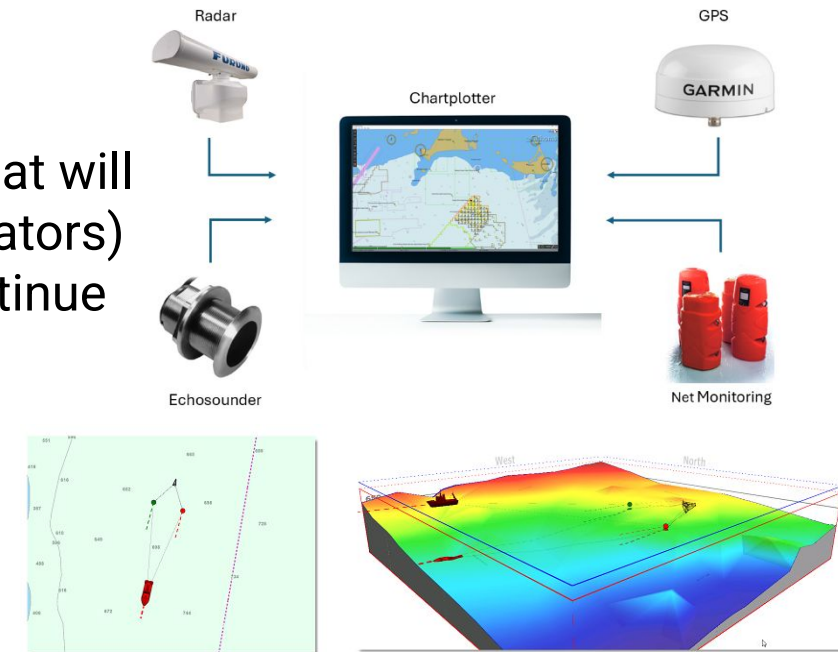
Project Selection Overview			
Topic Area	Lead Entity	Short Title	Region Addressed
Supporting Fisheries Access	UMaine	Co-Locating a Fixed Gear Fishery with a Demonstration Scale Floating Offshore Wind Turbine	GOM
	SMAST	Gear Monitoring Technologies for Safe Fishing in OFW	SNE
	GMRI	Supporting Fisheries Access in the Gulf of Maine	GOM
Larval Impacts	SMAST	Black Sea Bass Connectivity	SNE
Fisheries Monitoring	NEAQ	Impact of wind development on pelagic fishes	SNE
	SMAST	OFW Regional Monitoring and Analysis	SNE & Mid
	ASA Analysis & Communication, Inc	Multi-frequency Acoustic Monitoring of Regional Offshore Wind Impacts	SNE
	Smithsonian	Effective Acoustic Telemetry	SNE & Mid
	UMCES	Flyway Model	SNE & Mid
	Inspire Environmental	Fisheries Monitoring Mapping Tool	SNE & Mid



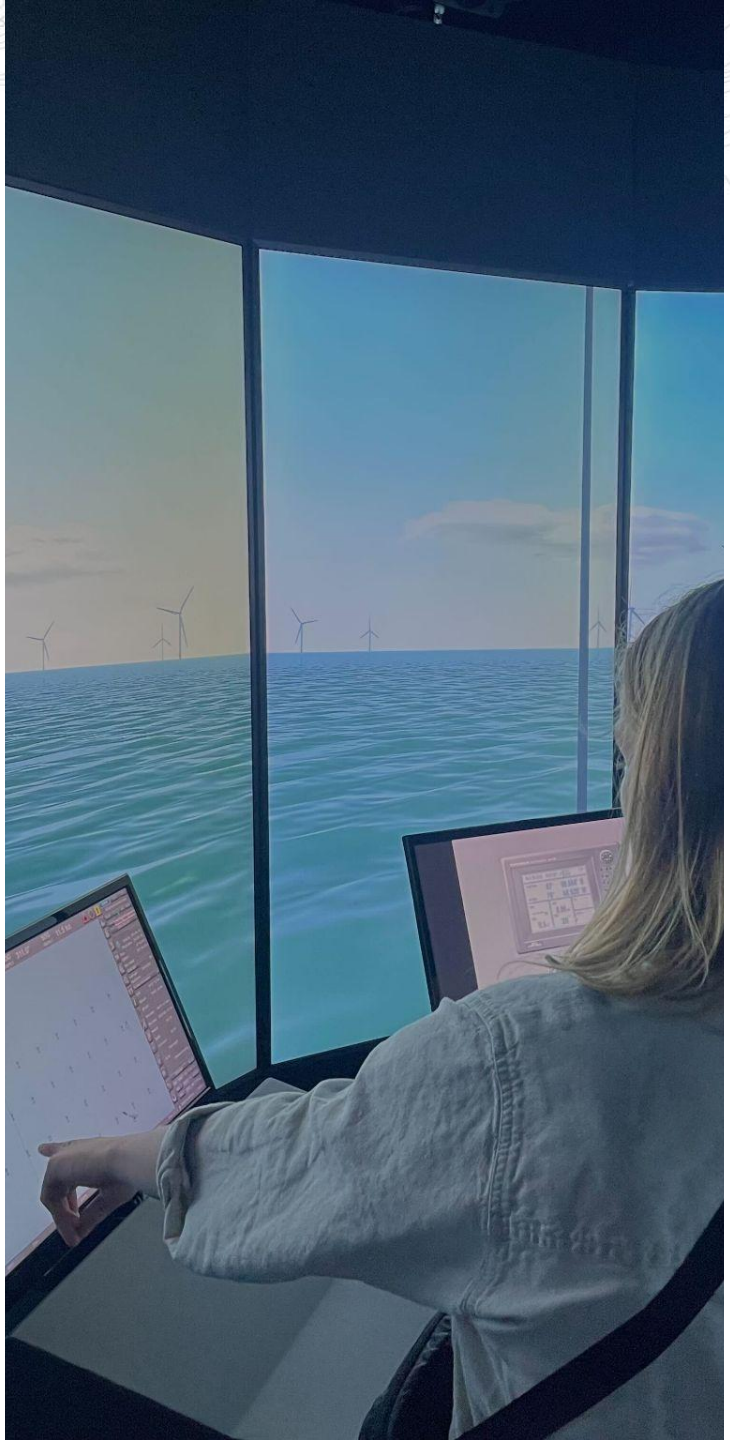
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	GMRI	Supporting Fisheries Access in the Gulf of Maine	GOM
Larval Impacts	SMAST	Black Sea Bass Connectivity	SNE
Fisheries Monitoring	NEAQ	Impact of wind development on pelagic fishes	SNE
	SMAST	OFW Regional Monitoring and Analysis	SNE & Mid
	ASA Analysis & Communication, Inc	Multi-frequency Acoustic Monitoring of Regional Offshore Wind Impacts	SNE
	Smithsonian	Effective Acoustic Telemetry	SNE & Mid
	UMCES	Flyway Model	SNE & Mid
	Inspire Environmental	Fisheries Monitoring Mapping Tool	SNE & Mid

# Evaluation of Technologies for Trawl and Dredge Vessels to Safely Operate within Offshore Wind Farms

- PI: Christopher Rillahan, SMAST – UMass Dartmouth (crillahan@umassd.edu)
- Co-PIs: Pingguo He, Paul Farnham & Michael Decker (F/V Heather Lynn), John Lees (Owner of 5 scallop vessels)
- Primary Objective: To assess and test equipment/technologies that will enable mobile fishers (primarily bottom trawlers and dredge operators) to safely coexist with offshore wind farms, ensuring they can continue fishing using traditional fishing gear while minimizing risks and disruptions from wind farm infrastructure.
  - Synthesize the state of existing technologies
  - Real-world evaluation of available technologies
  - Compile findings and stakeholder outreach
- Southern New England WEA







# Supporting Fisheries Access in the Gulf of Maine through Scenario-testing and Visual Simulations of Floating Offshore Wind and Fishing Operations



PI: Hannah MacDonald, Gulf of Maine Research Institute (GMRI)

**Key Project Leads and Partners:** Chas Van Damme – Energy Solutions Project Manager, GMRI; Brian Holden – President, United States Maritime Resource Center

## Research Questions:

- How can fishing operations using diverse gear types (e.g., trawl, purse seine, longline, lobster pots, jig, gillnet) be co-located with different FOW mooring systems (catenary, taut, semi-taut, and tension leg platform) under Gulf of Maine-specific scenarios?
- How can the fishing industry co-create and refine scenarios within a virtual environment by identifying key operational challenges and proposing alternative solutions, such as modified layouts, spacing configurations, and gear adjustments?

**Hypothesis:** Collaborative design and testing of alternative array layouts, spacing configurations, and gear innovations within floating offshore wind (FOW) lease areas will improve our understanding of fishing access and safety for fishermen, as demonstrated through iterative workshop-based evaluation and simulation.

## Goals:

- Core Research: Assess how different fishing gears can operate within floating offshore wind (FOW) mooring systems.
- Design & Safety: Develop practical recommendations for array layouts, spacing configurations, and gear innovations that enhance fishing access and safety, while identifying knowledge gaps and strengthening collaboration between fishing and offshore wind sectors.
- Engagement & Communication: Build awareness, knowledge, and confidence among fishing communities through proactive engagement, and share findings with stakeholders using clear communication strategies and educational tools that explain the complexities of FOW development.

**Study Area:** Coexistence and operations

# Connectivity and Dispersal of Black Sea Bass, *Centropristis striata*, within Southern New England

- **PI:** Kevin D.E. Stokesbury, School for Marine Science and Technology (SMAST)
- **Co-PIs:** Max Zavell (SMAST), Geoff Cowles (SMAST), Tim O'Donnell (GMGI), Pingguo He (SMAST), Changsheng Chen (SMAST)

[mzavell@umassd.edu](mailto:mzavell@umassd.edu)

- **Research Goals/Questions:**

- Are Black Sea Bass spawning at turbines within windfarms and do these turbines act as sinks?
- How connected are Black Sea Bass aggregations between turbines and windfarms across the region?
- Are larvae dispersed to favorable settlement habitats if spawned at an offshore windfarm?
- Develop high-resolution hydrodynamic fields to assess windfarm development scenarios on regional oceanographic dynamics.

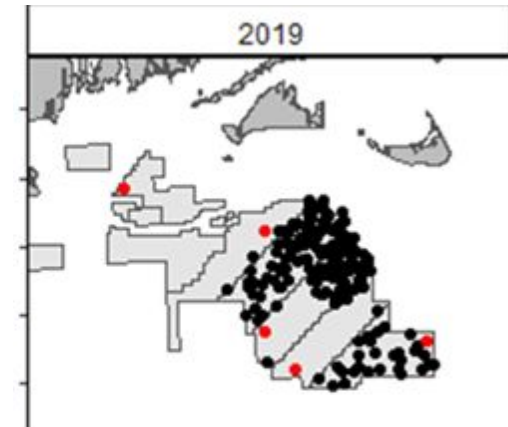
- **Study area:**

- Southern New England and Rhode Island & Massachusetts Wind Energy Area



# An Analytical Framework to Assess the Regional Impacts of Offshore Wind Farms and Evaluate Fisheries Monitoring Plans

- PI: Christopher Rillahan, SMAST – UMass Dartmouth (crillahan@umassd.edu)
- Co-PIs: Adam Delargy, Pingguo He, Steve Cadrin, Kevin Stokesbury, Max Zavell, Keith Hankowsky, Amber Lisi, David Rudders (VIMS) & Sally Roman (VIMS)
- Primary Objective: To develop and test the efficacy of an analytical framework for detecting the regional impacts of offshore wind development on multiple commercially and recreationally important species and optimizing the design of fisheries monitoring plans.
  - Use spatiotemporal models to predict the distribution and abundance of several species by integrating data from multiple sources and correlating them with environmental and operational covariates
  - Create a simulation framework to assess the ability to detect changes in species abundance within existing monitoring plans.
- Southern New England WEA and Mid-Atlantic WEAs



# Acoustic telemetry: Regional monitoring

6 developers, 9 leases

Began in 2022, now in 4<sup>th</sup> year

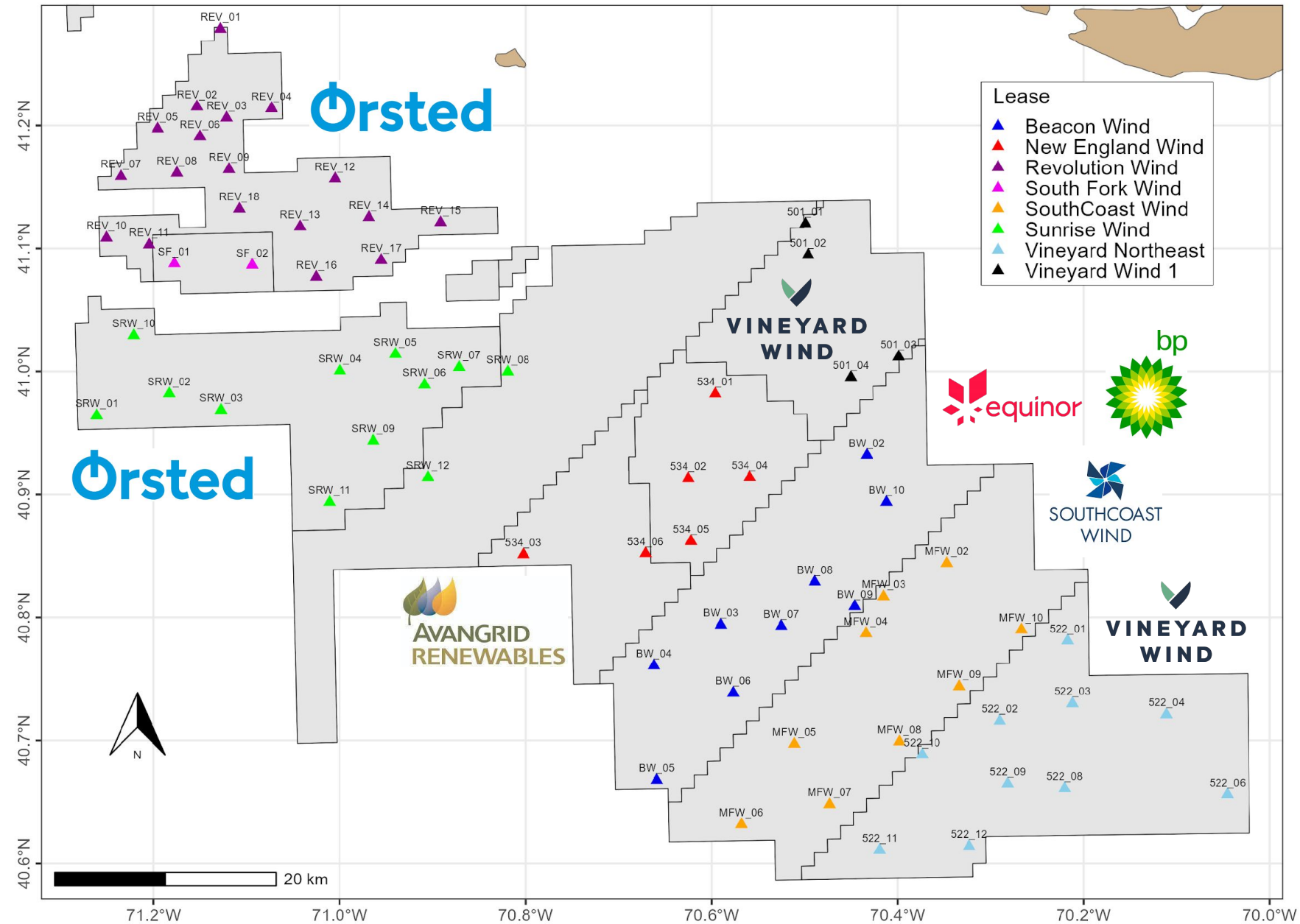
70 acoustic receiver stations

## Successes

Coordinated tag deployments  
One regional report completed  
Reviewed by all developers  
Achieved broader data sharing

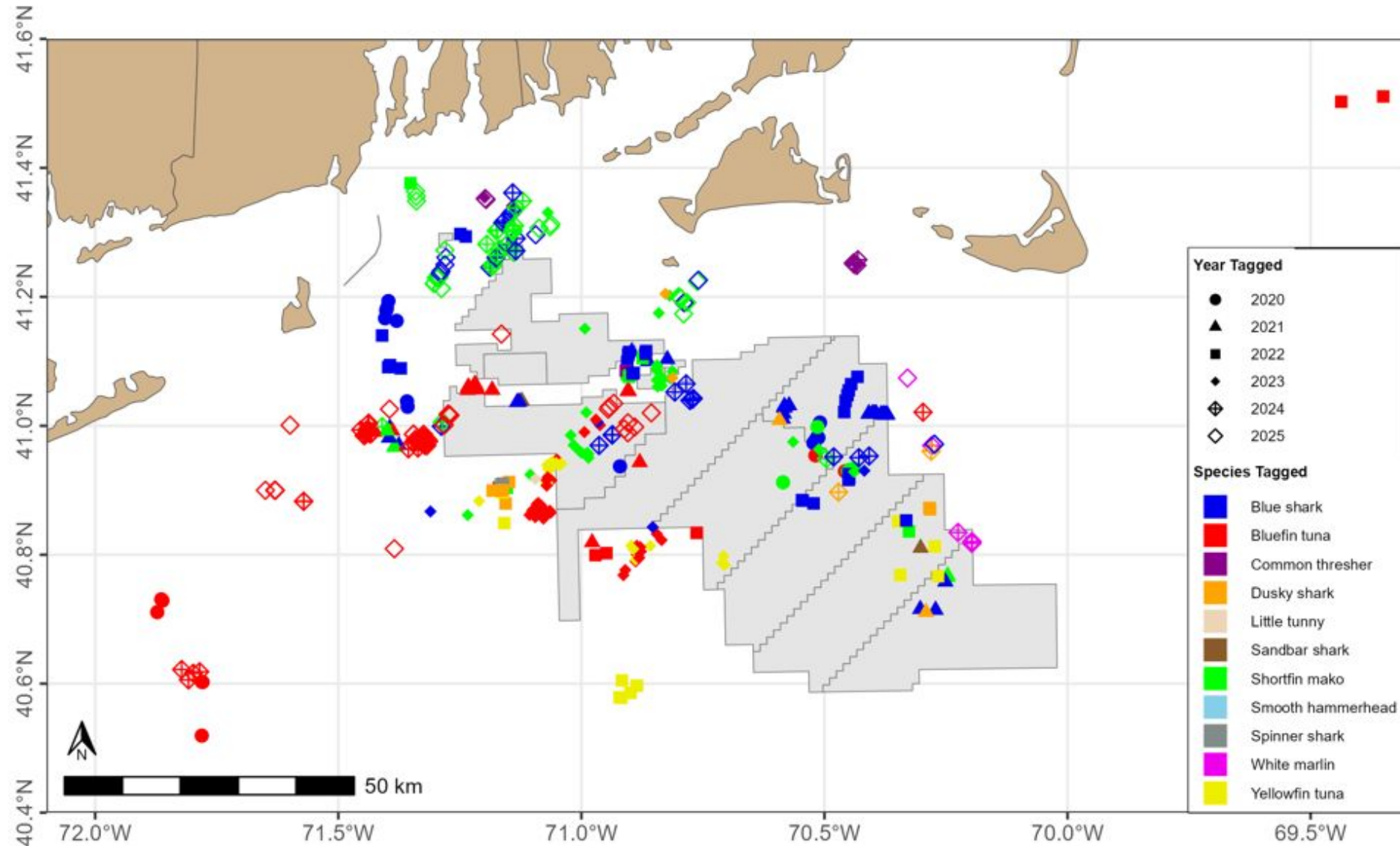
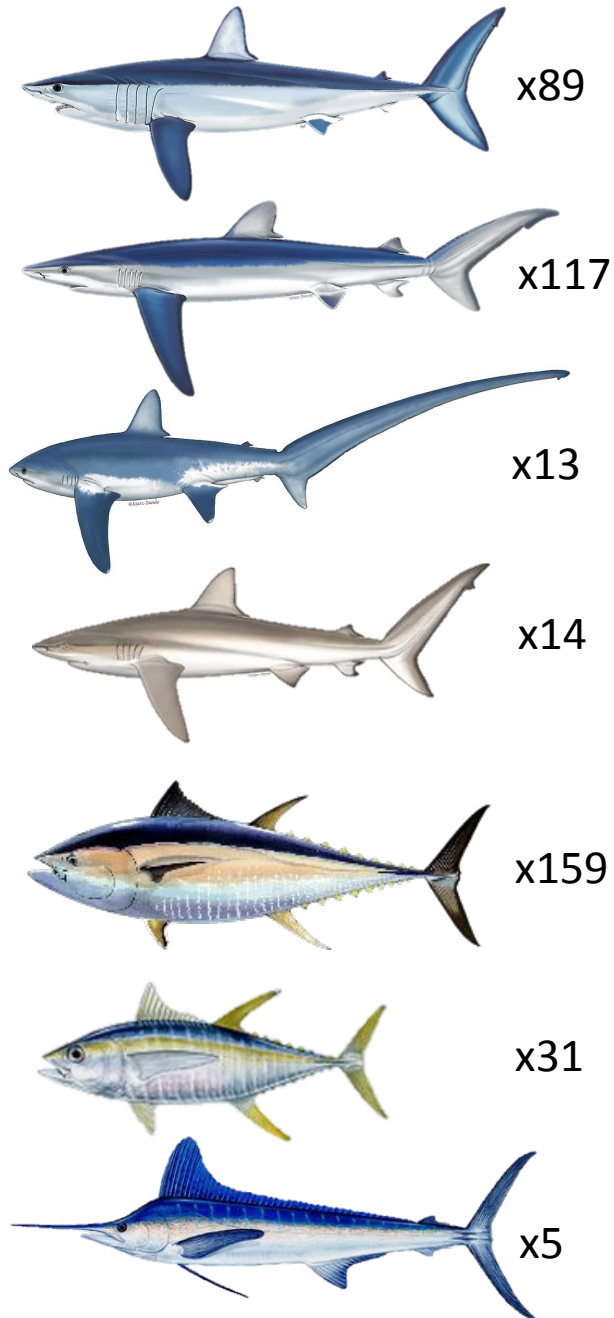
## Continued challenges

Reporting still at lease level  
Inconsistent contracts  
Pauses/inconsistent funding  
HSE

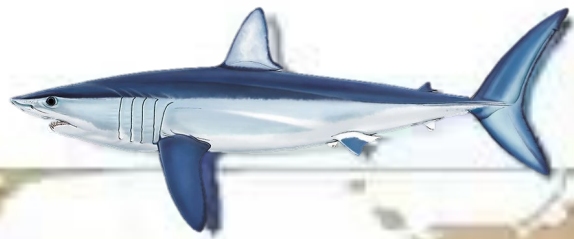




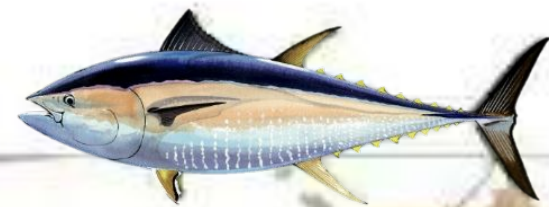
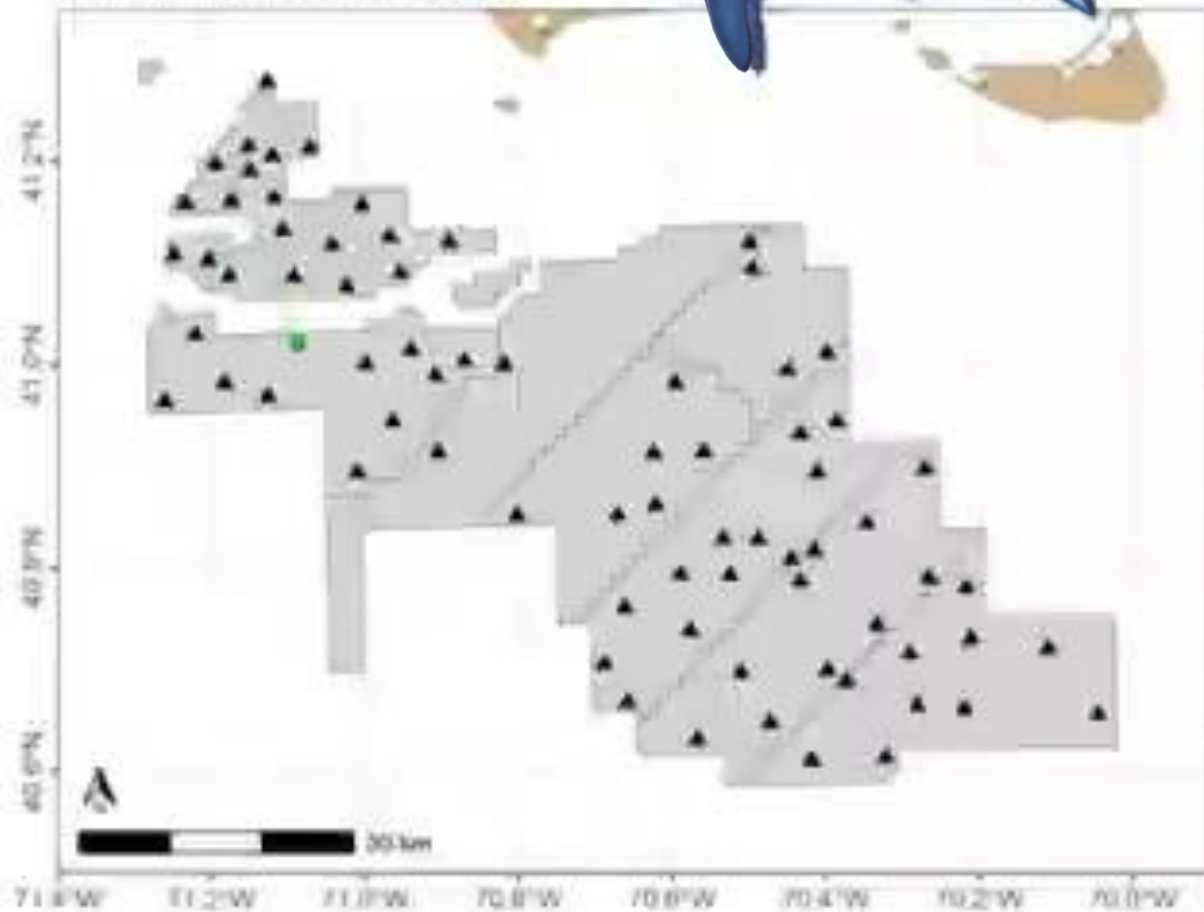
# Tag deployments: 2020 – 2025 (n=435)



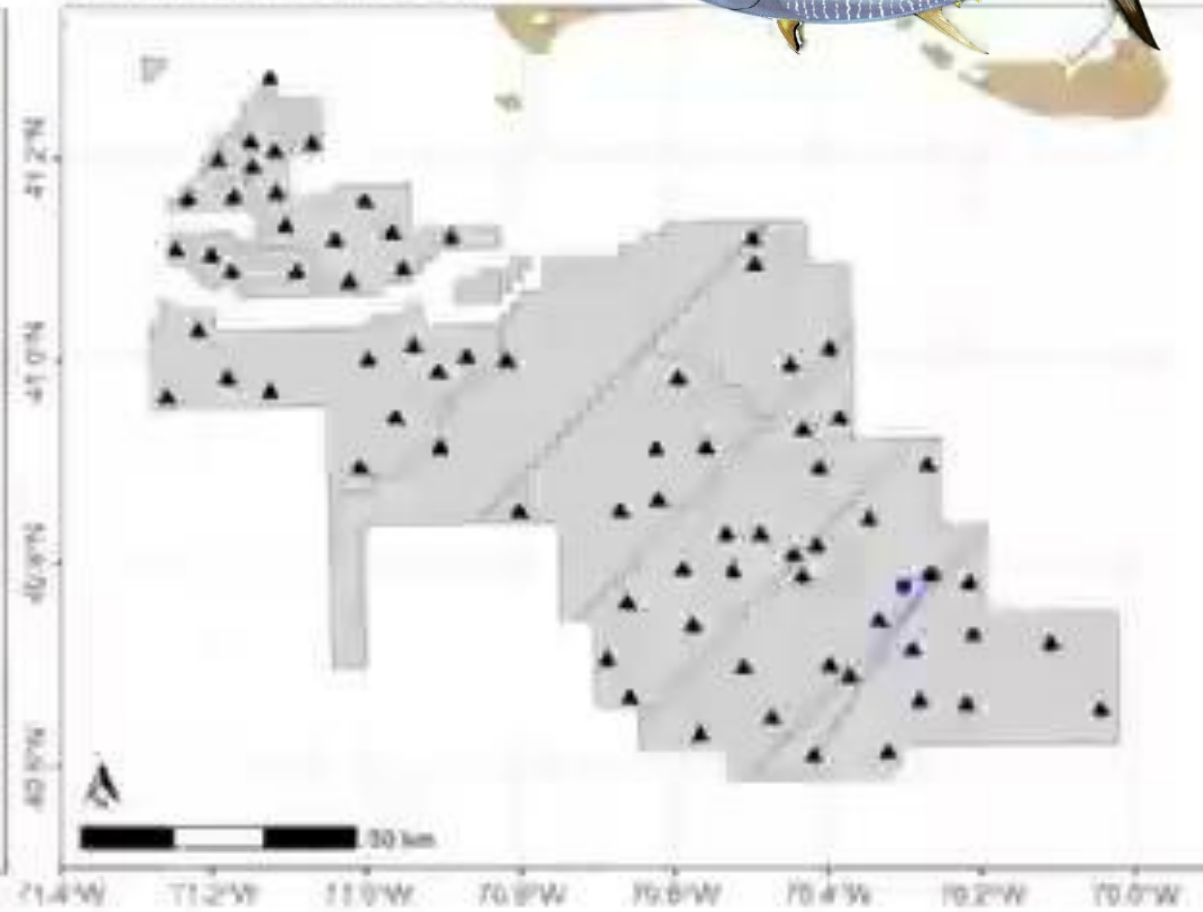
# Why regional monitoring is essential



Shortfin Mako 2023-06-15



Bluefin Tuna 2023-06-15

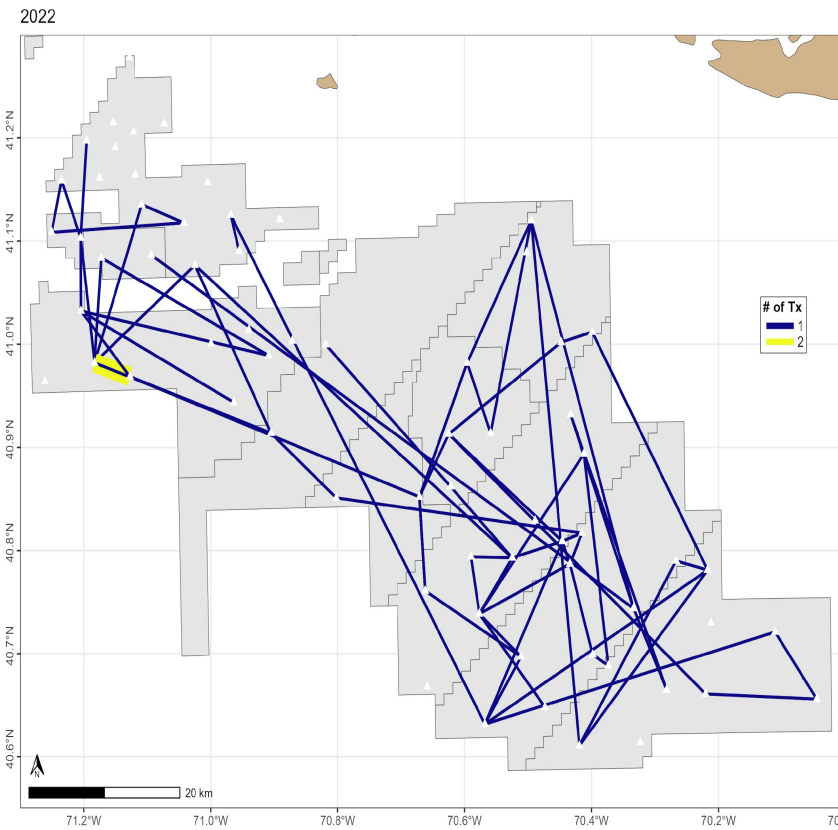




# Long-term monitoring: Every year is different ... but why?

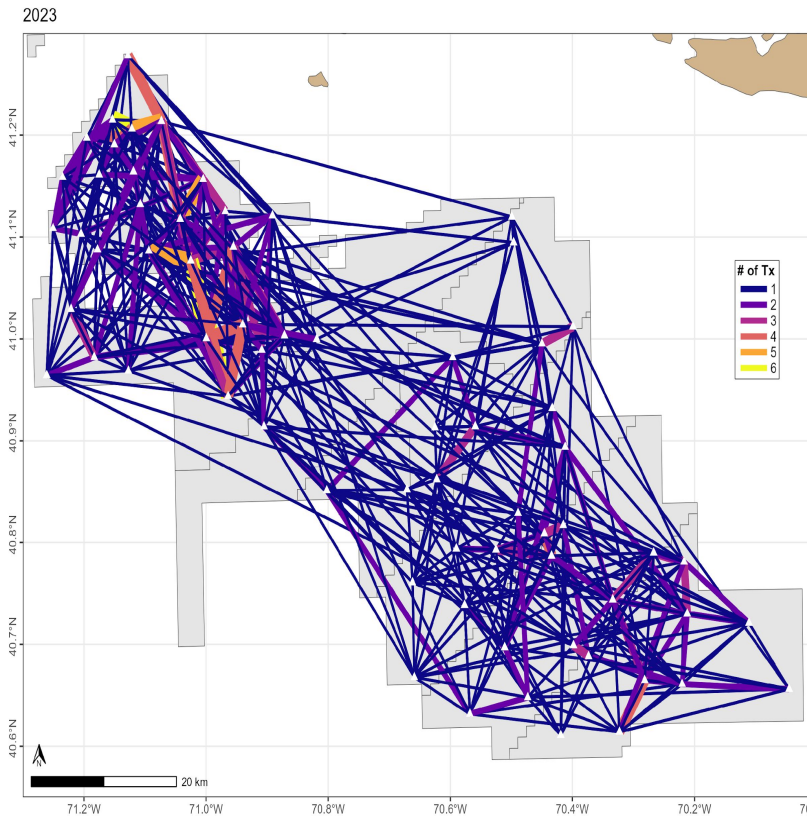


## 2022



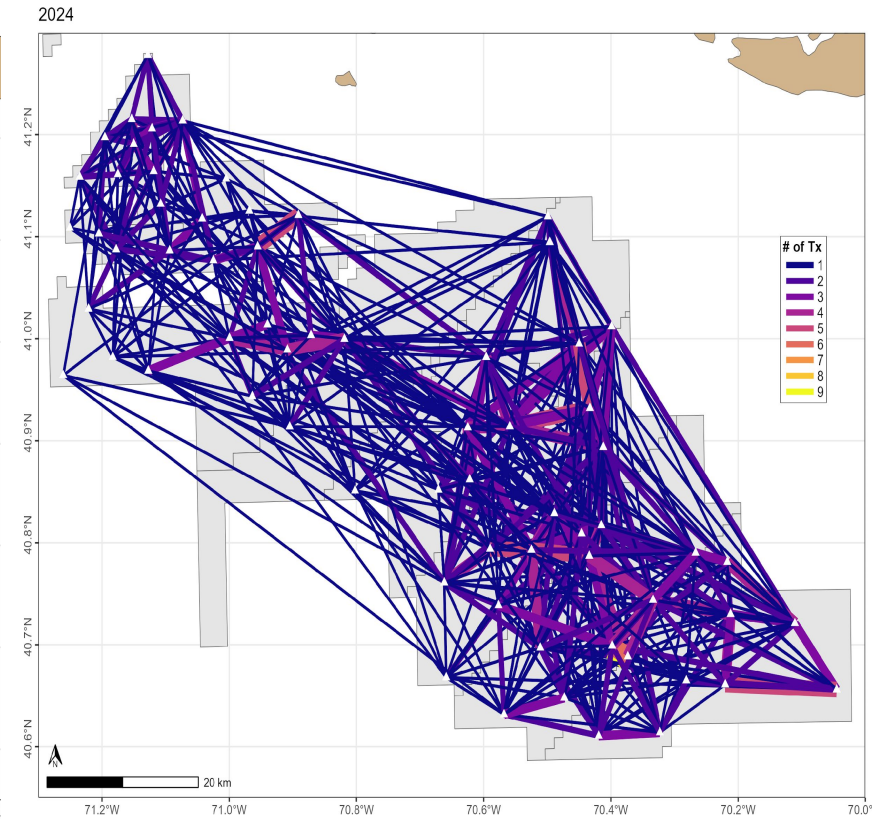
5 tagged, 12 tracked (10 returning fish)

## 2023



35 tagged, 40 tracked (10 returning fish)

## 2024



52 tagged, 40 tracked (18 returning fish)

# ROSA funded project: Species Distribution Modeling



Jeff Kneebone  
(PI)  
Edward Kim  
Emily Jones



Nima Farchadi (co-PI)  
Rebecca Lewison (co-PI)



Martin  
Arostegui  
Camrin Braun



Tim O'Donnell



John  
Logan



Keith Dunton

***Objective: Disentangling Environmental Variability and Offshore Wind Activity on Fish Presence***

## Why this matters

- HMS distribution varies within and between years, but telemetry data alone do not explain why
- Acoustic telemetry and eDNA are being used in monitoring frameworks across multiple offshore wind lease areas.
- We currently lack the tools needed to combine these important data sources and measure impacts accurately.

## Goals and Outcomes

- Create an SDM framework to model influence of environmental conditions, prey distribution and abundance, and spatially explicit offshore wind construction and operation on HMS presence.
- Examine value added of eDNA-based prey sampling.
- Develop recommendations for the temporal sampling schedule for eDNA metabarcoding monitoring.







A large, powerful ocean wave is captured in mid-break, with a massive plume of white water and spray erupting from its crest. The water is a deep, dark blue, and the sky above is a pale, clear blue. The wave's face is steep and textured with white foam. A semi-transparent teal banner is positioned across the lower third of the image, featuring the text 'Partner Update' in a bold, white, sans-serif font.

# Partner Update



# Massachusetts Fisheries Innovation Fund

## Solicitation 1 – September Update

Brad Schondelmeier

*Offshore Wind and Fishery Specialist*  
Massachusetts Division of Marine  
Fisheries



# Massachusetts Fisheries Innovation Fund Update



- **\$1.75m mitigation fund** created to “support programs and projects that ensure safe and profitable fishing continues” as current and future offshore wind projects are developed
- Additional mitigation funds expected to supplement FIF in future

## Solicitation 1 Timeline

May: Finalized FIF RFP draft, edited/approved by Advisory Panel

June: Finalize RFP – Solicitation1 with MA Exec. Office of Energy and Environmental Affairs (EEA) Legal and Grant Admin

July: Post to CommBuys and EEA Grants Management Portal (July 8)

August: Proposals due August 29 (Received 20 proposals seeking \$3.34m)

September: Initial Review Team (EEA) evaluated proposals, advancing ~50-75%

October: Final Review Team (AP/EEA) evaluate proposals, recommend funding

November - December: Announcements and Contract/SOW Negotiations

January 2026: Projects may begin!





# Fisheries Innovation Fund – Solicitation 1

## Scale of Funding

- Seeking to award ~\$750,000, with projects ranging from \$25,000-\$300,000 total
- Minimum \$125,000 to each of 3 priorities (if sufficient proposals are received)
- Projects up to 3 years in duration

## Project Priorities

Fishing Innovation

Community

Safety

## Evaluation Criteria

- **30%** - Likely achievement of one or more of the project goals listed in the Fund Purpose, or the three project priorities listed in the Scope, and within timeline of work,
- **30%** - Extent of support for, or contribution to, the co-existence of marine fisheries and offshore wind development,
- **20%** - Direct engagement, collaboration or contracting with the commercial or for-hire fishing communities,
- **10%** - Budget justification and effectiveness,
- **10%** - Satisfaction of current research needs, while not duplicating existing or ongoing projects. Building upon or extending an existing project is acceptable.

## Coordination with other Funders/Projects

- Duplicative projects won't be preferred
- Reviewers using FishFORWRD, Council RPs during review
- DMF will encourage/facilitate coordination with other similar projects through SOW/Contracting process





# Fine Scale Coordination



# Offshore Research Funder Coordination

Update to the ROSA Advisory Council  
September 25, 2025

# Research Funder Coordination - Background

- ROSA & RWSC have been tracking partners' offshore research solicitations and procurements processes - and participating in proposal review/selection
- Many funders have participated in proposal review/selection for one another
- There is a huge opportunity for leveraging & coordination:
  - Research entities submitting similar proposals to multiple funders
  - Funders soliciting research on similar/related topics
  - Geographic area of focus Atlantic OCS
  - Offshore wind theme present in many



# Research Funder Coordination - State of offshore research

Since September 2024

- 16 new RFP processes (including RWSC & ROSA)
- 66 new projects
- ~\$50M invested

ROSA & RWSC are facilitating coordination among funders to align projects

Stage	Entity
Projects selected & Announced	Massachusetts Clean Energy Center (MassCEC)
	NOAA Research Set Aside Program (NOAA RSA)*
	Responsible Offshore Science Alliance (ROSA)
	Maine OSW Research Consortium (ME OSW RC) - 1st Round
	National Fish & Wildlife Foundation Vessel Strike Risk Reduction (NFWF)*
Selection/ announcement underway	National OSW Research & Development Consortium (NOWRDC)
	Northeast Sea Grant Consortium (NE SGC)
	New Jersey Research & Monitoring Initiative (NJ RMI)
	Maine OSW Research Consortium (ME OSW RC) - 2nd Round
	Regional Wildlife Science Collaborative (RWSC)
	Marine Mammal Commission technology grants*
Open and Upcoming Funding Solicitations	Massachusetts Division of Marine Fisheries (Mass DMF) Fisheries Innovation Fund
	Maine OSW Research Consortium (ME OSW RC) - 3rd Round
	ME GEO BlueTech Innovation and Monitoring at the UMaine Demo Floating Turbine
	Annual NOAA Research Set Aside Program (RSA)*
	New York State Energy Research & Development Authority Sturgeon Request for Proposals (NYSERDA)
*RFP was not exclusively OSW-related studies	

# Offshore research funder coordination

- ROSA & RWSC tracking partners research solicitations and participating in proposal review/selection
- Opportunity for fine scale leveraging and coordinating
  - Similar proposals submitted multiple funders
  - Funders soliciting research on similar/related topics
  - Geographic area of focus Atlantic OCS
  - Offshore wind theme present in many





# Offshore research funder coordination

- Research coordination is not a new idea
- RWSC & ROSA are taking it to a new level by:
  - Participating in proposal evaluation and selection
  - Systematically convening funders
  - Providing examples of success
  - Gathering and processing project information from multiple funders
  - Providing funders “a leg-up” making connections between projects
  - Developing coordination-framework and concepts based on regional monitoring principles
  - Hosting research workshops

# Offshore research funder coordination

## Coordination series invitees

Invited entities	
ROSA	NYSERDA
RWSC	NJ DEP
NROC	NOWRDC
MARCO	NE Sea Grant Consortium
Equinor	BOEM
Maine GEO	NOAA Fisheries
MassCEC	US Fish & Wildlife Service
Mass DMF	Marine Mammal Commission
NFWF	

## Coordination series schedule

Session	Date and time	Focus	Invitees
1	Tues, Aug 5, 1-2:30pm ET	Introduce and hear feedback on the concept and schedule for these meetings; share initial comparison of projects, draft contract language that ensures coordination; discuss opportunities to coordinate specific projects from funders' perspective	Funders of new/ongoing projects
2	Tues Sep 9, 1-4pm ET	Longer session to solidify coordination expectations and opportunities; plan for awardees workshop	Funders of new/ongoing projects
3	Mon Sep 22, 1-4:30pm ET	Workshop for awardees and funders: <ul style="list-style-type: none"><li>• Each awardee provides brief presentation of new project and coordination activities</li><li>• Directly introduce and connect project teams</li><li>• Discuss coordination expectations and opportunities</li></ul>	New awardees and funders
4	Tues Oct 14, 1-2:30pm ET	Hear updates on contract statuses from each funder, lessons learned; begin to expand discussion to regional monitoring, pooling funds, and more	Expanded list of funders - active and future
5	Tues Nov 4, 1-2:30pm ET	Updates on contract statuses Lessons learned	Expanded list of funders - active and future
6	Tues Dec 9, 1-2:30pm ET	Regional monitoring Pooling funds	



# Summary of new projects

- Obtained and included information from many funders:
  - RWSC & ROSA
  - MassCEC
  - NFWF
  - NYSERDA
  - MaineGEO
  - Marine Mammal Commission
  - NOAA Fisheries
  - New Jersey RMI
  - NOWRDC
- **47 total projects** in our spreadsheet
- Many projects are still in the contracting phase
- Many funders have not formally announced selections

# Summary of new projects

Topic Area	Funder(s)
Birds and Bats	Maine GEO, MassCEC, RMI, RWSC
Climatech	MassCEC
Fisheries & Protected Fish Species	Maine GEO MassCEC RMI ROSA NYSERDA
Habitat and Ecology	MassCEC NOAA Fisheries RMI RWSC
Marine Mammals	Maine GEO MassCEC MMC NFWF
Technology	NOWRDC

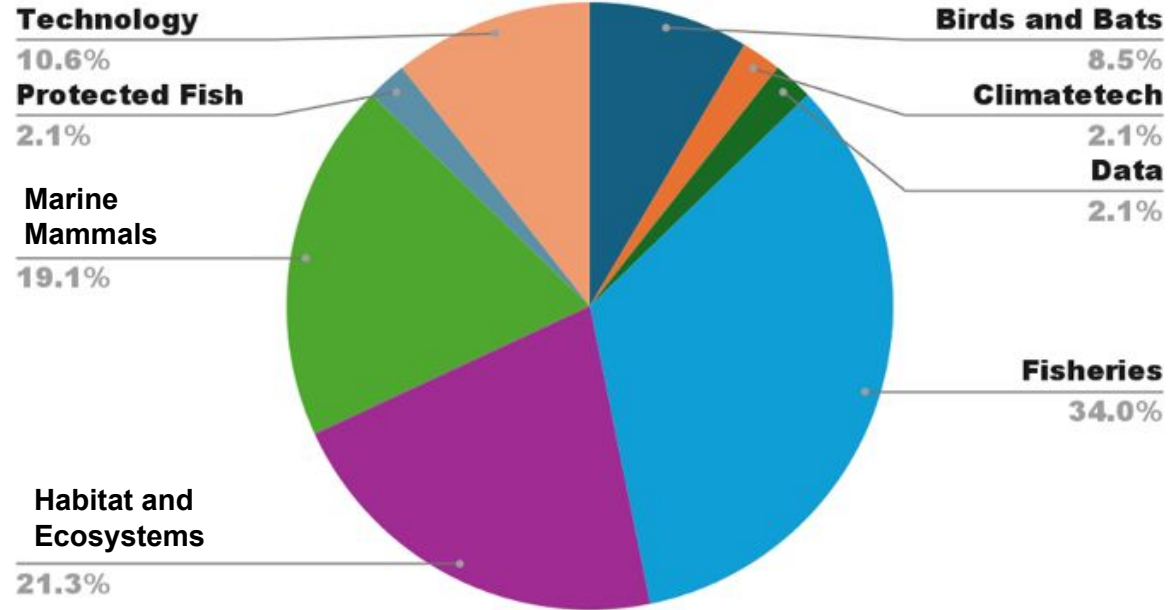


# Summary of new projects

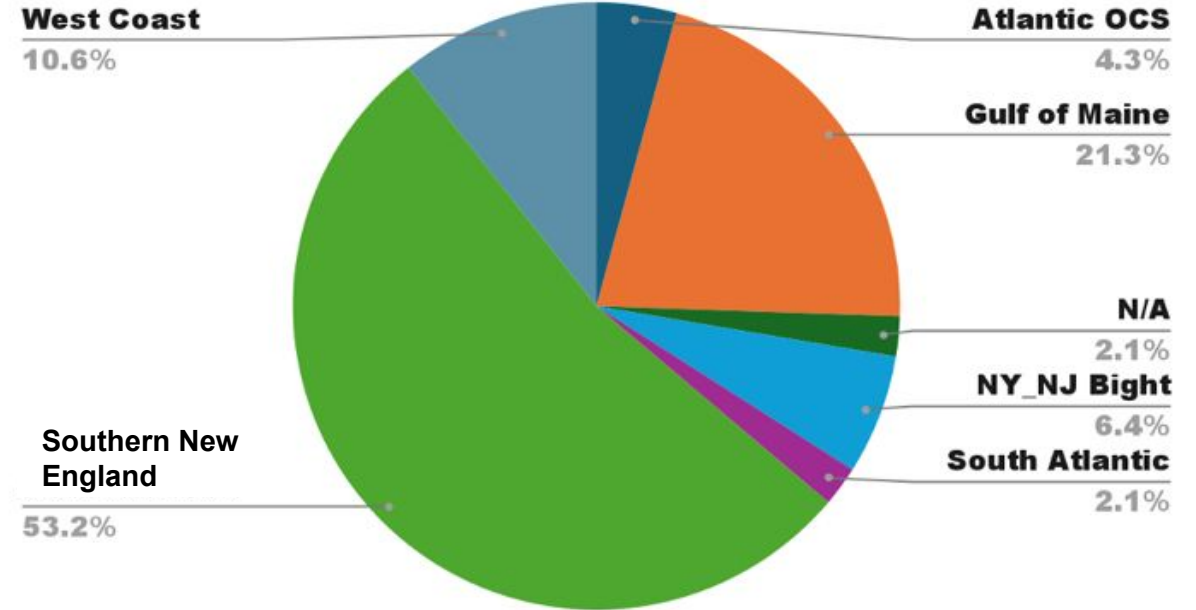
Projects by topic & study region

*Caveats: some projects span focal areas and study areas*

**Focal Areas of Projects**



**Study Area**



# Drivers of project coordination (areas of overlap)

**Spatial** - Same study area

**Personnel/Equipment** - Committed to multiple projects

**Expenses** - Ship time, equipment, travel costs

**Temporal** - Same data collection period

**Data pipeline** - Outputs from one, inputs/supplements another

**Contractual** - Requirement to allocate effort/budget for coordination

**Data** - Same data types/products

**Research Question** - Same/similar/complementary

**Engagement** - Interaction with stakeholders and/or organizations



# September 22 New Projects Webinar

- ~90 attendees
- >170 registered
- >15 individual projects presented

# Future forums for project-level coordination

- ROSA-RWSC public workshops/webinars
- Funder coordination meeting series
- RWSC Subcommittees
- ROSA Advisory Council meetings
- Smaller working groups on research questions and methods, e.g.,
  - Hydrodynamics and ecology
  - Acoustic telemetry

# Contact us

## RWSC

<https://rwsc.org> for Subcommittee meetings calendar (events page), and mailing list

- Emily Shumchenia, Director [emily.shumchenia@rwsc.org](mailto:emily.shumchenia@rwsc.org)
- Julia Dombroski, Research Director [julia@rwsc.org](mailto:julia@rwsc.org)

## ROSA

<https://rosascience.org> for events page and mailing list

- Reneé Reilly, Executive Director [renee@rosascience.org](mailto:renee@rosascience.org)
- Mike Pol, Research Director [mike@rosascience.org](mailto:mike@rosascience.org)
- Patricia Perez, Research Program Manager [tricia@rosascience.org](mailto:tricia@rosascience.org)



A photograph of a massive ocean wave in the process of breaking. The wave's crest is curling over, creating a thick spray of white water. The water is a deep, dark blue, while the sky above is a pale, clear blue. The bottom third of the image is covered by a semi-transparent teal overlay. On the left side of this overlay, the word "Break" is written in a bold, white, sans-serif font.

**Break**



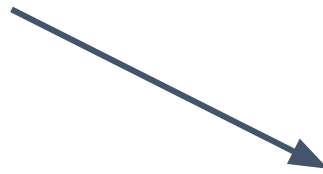
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# Partner Updates

# Call for Advisory Panel Members



The NEFMC is seeking commercial and recreational fishermen, and other interested public to serve on all its [Advisory Panels](#) (AP). AP members support the Council by providing guidance during the development of federal [Fishery Management Plans](#), actions, and measures. Terms run for three years, from January 2026 through December 2028, and individuals may serve on more than one panel and/or for more than one term. To apply, download and submit [this application](#) form by October 3, 2025.







# Regional Fund Administrator Update



Fisheries Compensation Program  
for Atlantic Coast Offshore Wind

# Introduction to the Regional Fund Administrator (RFA)

ROSA meeting (virtual)  
September 25, 2025



# The Regional Fund Administrator (“RFA”) Team

<b>BrownGreer</b> 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
<b>Carbon Trust</b> Olivia Burke and Jan Matthiesen (project manager)	Engagement lead for “1-2-1” conversations, caucus group meeting facilitation
	Working with local engagement officers for broader feedback - Laura Singer and Deirdre Boelke
	Supporting the convening of caucus group meetings during transition to the RFA
<b>Consensus Building Institute (“CBI”)</b> Pat Field	Convenes the Design Oversight Committee (“DOC”)
	General convening support, strategic advisement, and project management
	Supports the transition to the RFA
<b>Special Initiative on Offshore Wind (“SIOW”)</b> 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



## Common questions on the RFA

[www.rfainfo.com](http://www.rfainfo.com)

- ☐ The RFA is tasked with developing a process for distributing financial compensation to address potential economic losses from offshore wind development
- ☐ Compensation is the last step in the overall mitigation hierarchy. Project plans must first provide proposed measures for avoiding, minimizing, reducing, eliminating and monitoring environmental impacts.
- ☐ This process will **not** focus on compensation programs already developed, or how money comes into a regional fund.
- ☐ The scope of this process is focused on developing a framework for how money is distributed out for future compensation programs.

# Guiding Program Principles for Regional Design

*WORKING DRAFT*

## Consistent

Consistent in how to apply for, determine, and allocate monies



## Fair

Compensation that is fair and reasonable.



## Impact

The Program should fairly and reasonably compensate those active fishing enterprises that are directly affected by OSW development.



## Intuitive

Intuitive and easy to understand program



## Incentives

The Program should reinforce incentives to keep fishermen fishing.



## Equitable

Treat impacted fishermen equitably, regardless of fishery, home or landing port, or state affiliation.



## Transparent

The Program should be clearly explainable, its methods publicly available, and its aggregated results publicly shared.



## Efficient

Administratively and limit burden.



## Authentic

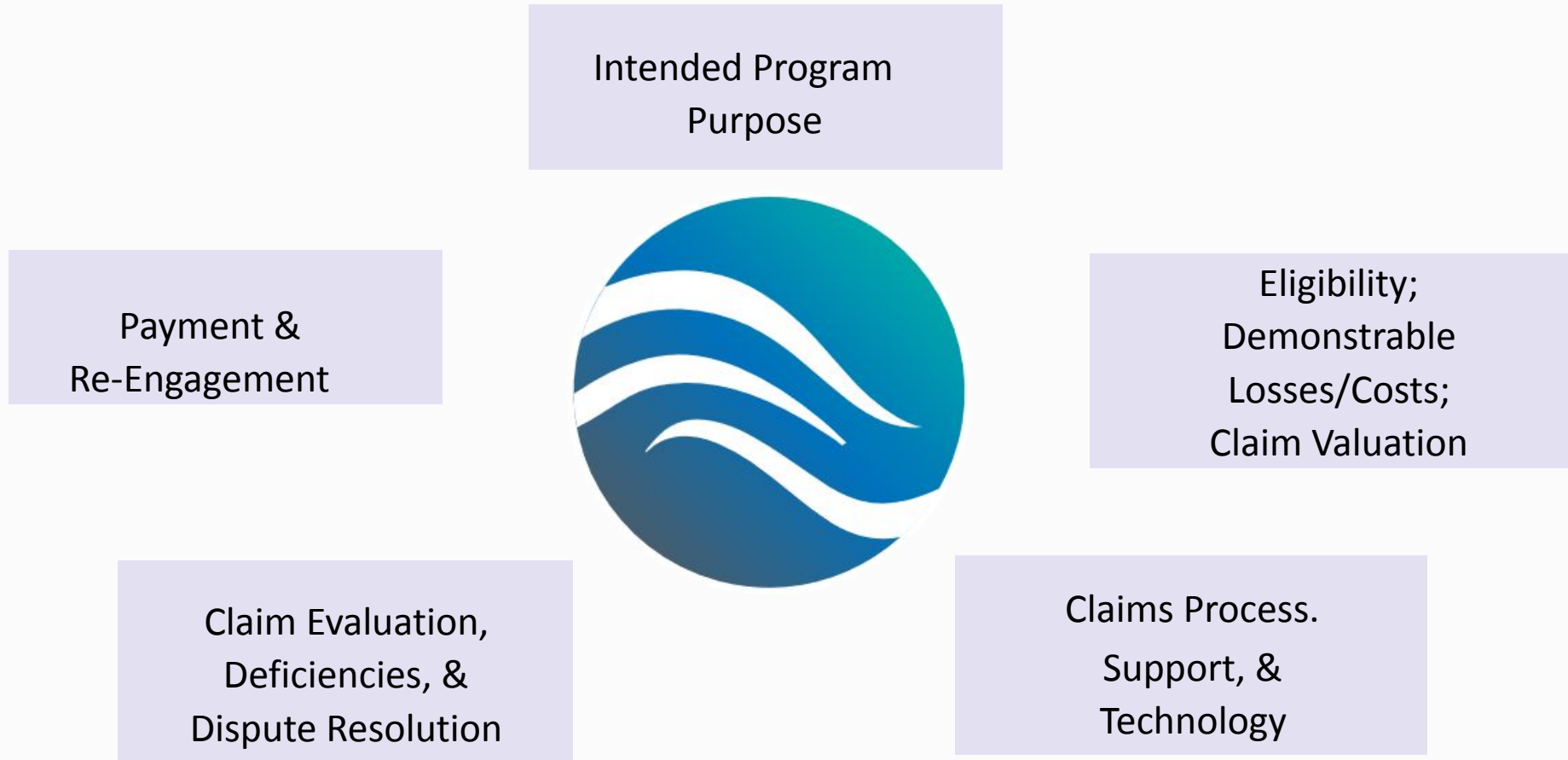
The Program should rely on an evidence-based approach and best available data and discourage manipulation that would disadvantage affected fishing businesses



## Comprehensive

The Program's rules should reflect inclusiveness of the vast majority of likely claim scenarios and should afford restrained flexibility for outlier cases.

# Overview of Program Components

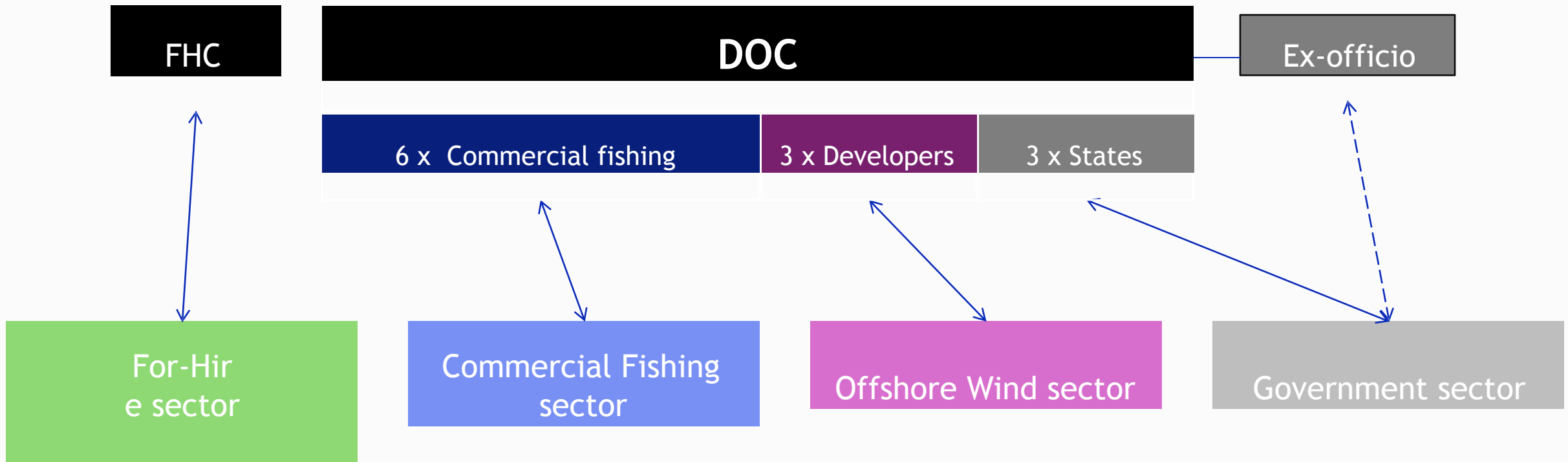




# Project Timeline

Timeline for the RFA Project - design and development of the regional compensation fund	
<b>November 2024</b>	Project set-up and initiation
<b>December – January 2024</b>	Launching the DOC / FHC, kick-off meetings, development of Terms of Reference
<b>February – April 2025</b>	Introducing the RFA Project to the wider sectors
<b>May – August 2025</b>	Consultation on claim eligibility – <i>Who is eligible for compensation?</i>
<b>August – November 2025</b>	Consultation on loss eligibility and valuation – <i>What types of losses does the program pay? How is compensation calculated?</i>
<b>November – January 2026</b>	Consultation on documentation requirements for claimants – <i>What must claimants submit to prove their eligible losses?</i>
<b>February – June 2026</b>	Finalizing fund design and reporting on results – <i>What processes/systems are needed to administer the Program?</i>

# 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



# Governing Committees

## Design Oversight Committee (“DOC”)   For-Hire Committee (“FHC”)

### Commercial Fishing Industry

- **Hank Soule, Vincent Balzano, Joe Gilbert, Roy Diehl, Sam Martin, Wes Townsend**
- *Alternate Members: Beth Casoni, Jerry Leeman, Bonnie Brady, Jeff Kaelin, Lane Johnston*

### States

- **Brad Schondelmeier, Joe Cimino, Todd Janeski**
- *Alternate Members: Erin Wilkinson, Julia Socrates, Carrie Kennedy*

### Offshore Wind Industry

- **Brian Krevor, Emily Rochon, Rick Robins**
- *Alternate Members: Ruth Perry, Ross Pearsall, Samuel Asci*

### Recreational Fishing Industry

- **Rick Bellavance, Bob Rush, Rom Whitaker**
- *Alternate Member: Mike Cerchio.*

### States


- **Renee Zobel**
- *Alternate Member: Joe Cimino*

### Offshore Wind Industry

- **Brian Krevor**
- *Alternate Member: Ron Larsen*



# Contact Us

Fisheries Compensation Program 

### Important Dates and Deadlines

August 12, 2025, 6:00 pm ET  
FHC Meeting

---

July 11, 2025, 9:30 am ET  
DOC Meeting


---

April 1, 2025, 8:00 am ET  
FHC Meeting

---

[See All](#)

### Important Documents

[DOC/FHC Terms of Reference](#) 

---

[DOC Meeting Summary \(July 11, 2...](#)

---

[DOC Meeting Presentation \(July 11,...](#)

---

[See All](#)

- Public meeting links posted in advance

- List of DOC members and their contact details
- Common FAQs
- Summary of current topics under discussion

## RFA Website



[www.RFAInfo.com](http://www.RFAInfo.com)  
[contact@rfainfo.com](mailto:contact@rfainfo.com)



# Introduction to Tethys & SEER

**Hayley Farr**  
Pacific Northwest National Laboratory

*ROSA Advisory Council Meeting  
September 25, 2025*





# Tethys: A One-Stop-Shop for Information on Environmental Effects of Wind & Marine Energy

- Open knowledge hub with information and resources on environmental effects of wind and marine energy
- 10,000+ documents, including journal articles, conference papers, and reports
- Key features include:
  - Events Calendar
  - Archived Webinars
  - Tethys Blast Newsletter
  - Educational Resources
  - Community Pages
  - Online Tools

The screenshot shows the Tethys website homepage with a navigation bar (ABOUT, CONTENT, MRE TOOLS, WIND TOOLS, CONNECTIONS, BROADCASTS, HELP) and a hero section featuring a sea turtle and the text "Environmental Effects of Wind and Marine Renewable Energy". A sidebar on the right promotes the "Marine Energy Adventure: Collision Risk Video Game". Below the hero section, a paragraph states: "Tethys is a knowledge hub that hosts documents, information, and resources about the environmental effects of marine energy and wind energy. Sponsored by the U.S. Department of Energy, Tethys is part of PRIMRE and is home to the OES-Environmental, WREN, and SEER networks." Three buttons are visible: "GET STARTED", "KNOWLEDGE BASE", and "CONTRIBUTE".

The bottom section shows a detailed view of the "Knowledge Base" search results. It includes a search bar, filters, and a table of results. The table has columns for Title, Author, Date, Content Type, Technology, Streamer, and Recipient. The results are filtered by "Current Search" and "2025 results found".

Title	Author	Date	Content Type	Technology	Streamer	Recipient
Laboratory investigation of migratory behavior of pelagic fish species	Kirpal, Z.	August 2025	Thesis	Wind Energy, Fixed Offshore Wind	Collision	Birds, Passerines
Assessing potential collision risk with offshore wind on Lake Erie	Bergquist, M.L., Williams, R., Gossard, W., et al.	July 2025	Journal Article	Wind Energy, Fixed Offshore Wind	Human Dimensions	Human Dimensions
A flexible framework for species-based regional cumulative effects assessments to support offshore wind energy planning and management	Wright-Scherry, S., Blumhagen, B., Harrison, S.	June 2025	Journal Article	Wind Energy, Fixed Offshore Wind	Human Dimensions	Human Dimensions
Assessing the availability and feasibility of renewable energy on the Great Barrier Reef, Australia	Wang, Z., Jin, K., Xu, P., et al.	May 2025	Journal Article	Wind Energy, Fixed Offshore Wind	Noise	Fish
Physiological and behavioral effects of underwater noise on the large yellow croaker (Larimichthys crocea) and the blackthroat seaperch (Acanthaluteres spilargenteus)	Blasing, A., Hagemann, D., Zimmermann, S., et al.	May 2025	Journal Article	Wind Energy, Fixed Offshore Wind	Physical Environment	Physical Environment

On the right side of the screenshot, there are three featured sections: "WIND ENERGY" (Generating electricity from wind on land and at sea), "WREN" (Resolving conflicts between wind and wildlife internationally), and an "Events Calendar" for April 2025. The calendar shows various events with dates and times, such as "9:00 am EDT 2025", "9:00 am BS", "6:00 am UTC Wind", "8:00 am UTC Marine", "10:00 am UTC CEI", "12:00 am PDT Ame", "7:00 am UTC IEC TC 114.2", "9:30 7:00", "10:00 am +08 From Conca", "6:00 pm CEST Floa", "9:00 am MD", "12:00 am PDT Oceanic Ne", "9:00 am EDT", "8:30", "1:00", "9:00 am BS", and "6:00".

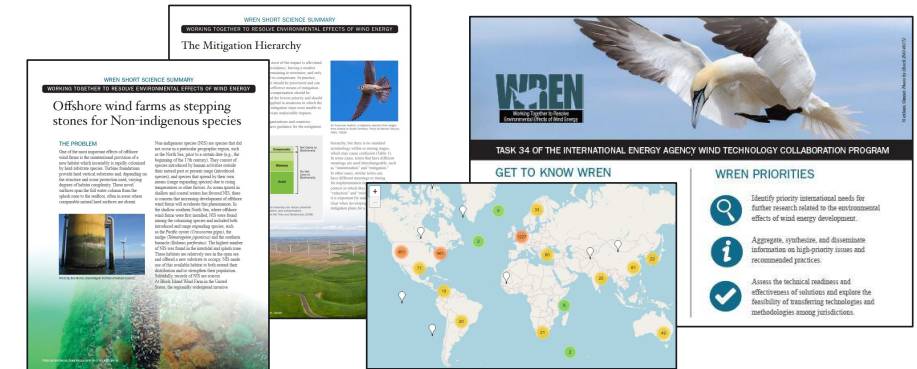
<https://tethys.pnnl.gov>





# Wind Energy-Environmental Research & Engagement Network (WREN)

- IEA Wind Task that shares information and resources on the environmental effects on both land-based and offshore wind energy
- Several countries collaborate to advance wind-wildlife research around the world by:
  - Connecting international subject matter experts
  - Publishing papers and short science summaries
  - Hosting educational webinars and workshops
  - Developing useful wind-wildlife tools on Tethys




<https://tethys.pnnl.gov/about-wren>



# Wind Energy Monitoring & Mitigation Technologies Tool

- Catalogs a wide variety of monitoring and mitigation technologies for assessing and reducing potential wind-wildlife effects:
  - Acoustic sensors
  - Cameras
  - Deterrents
  - Tags
- Information on each technologies' development status and links to related validation studies on their effectiveness
- Short online survey for community members to submit technologies for consideration



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## Wind Energy Monitoring and Mitigation Technologies Tool

**WREN** has created a free, online tool to catalog monitoring and mitigating technologies developed to assess and reduce potential wildlife impacts resulting from land-based and offshore wind energy development. The tool will be continuously maintained and updated to ensure the international community has access to current, publicly available information on monitoring and mitigation solutions, their state of development, and related research on their effectiveness.

Results can be refined by selecting from the drop down menus or entering a search term. You can also download the full list of monitoring and mitigation technologies or look up [definition of terms used in this tool](#).

Technologies are reviewed on an annual basis, but can be updated more frequently if needed, by emailing [tethys@pnnl.gov](mailto:tethys@pnnl.gov). The wind energy community may also contribute additional technologies for consideration by filling out [this survey](#).

**Last updated: 8 October 2024.**

Displaying 1 - 40 of 100 technologies

Download CSV

Category:

Choose some options ▾

Hierarchy:

- Any - ▾

Industry:

- Any - ▾

Implementation Phase:

Choose some options ▾

Stressor:

Choose some options ▾

Receptor:

Choose some options ▾

Development Status:

Choose some options ▾

Research Status:

Choose some options ▾

Search:


Apply

Type	Stressor & Receptor	Technology	Description	Placement & Integration	Research Summary	Citations
<b>Monitoring, Mitigation</b> Land-based Planning, Operation	Turbine Collision Birds, Bats	<b>Accipiter Radar Corp. Accipiter NM1-24D Avian Radar System</b> <a href="#">@</a>	3Bird Stabilized Offshore  The Accipiter® NM1-24D Avian Radar System is a software-programmable, 3D volume surveillance radar specially designed to detect and track birds and bats.... <a href="#">Read more</a>	Mounted near wind farm	<b>Small-Scale Field Study</b> Brand et al. (2011) tested and compared multiple types of radars. Criteria included automatic tracking, sampling protocols, data streaming, data integration, and data fusion.... <a href="#">Read more</a>	<a href="#">Brand et al. 2011</a>
<b>Monitoring</b> Land-based, Offshore Planning, Operation	Attraction, Avoidance, Turbine Collision Bats, Birds	<b>Normandeau Associates Inc. Acoustic and Thermographic Offshore Monitoring (ATOM) system</b> <a href="#">@</a>	The ATOM system represents a collection of multiple sensors designed to collect information about bird and bat activity in the rotor-swept zone of turbines, including species identifications, flux rates, and behavior.... <a href="#">Read more</a>	Sensors installed on turbine platforms and buoys	<b>Large-Scale Field Study</b> Willmott et al. (2023) deployed two ATOM systems on two turbines in the Dominion Energy Research lease area off the Virginia (US) coast. The systems were deployed from 1 April to 15 June 2021, 15 August to 31 October 2021, and 15 January to 15 March 2022 and recorded bird and bat activity.	<a href="#">Willmott et al. 2023</a> , <a href="#">Willmott et al. 2015</a> , <a href="#">Willmott and Forcey 2014</a>

<https://tethys.pnnl.gov/wind-energy-monitoring-mitigation-technologies-tool>

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[Home](#) » [Content](#) » [Offshore Wind Metadata](#) » [Block Island Wind Farm](#)

Partnering with [WREN](#), questionnaires are sent to offshore wind energy developers around the world who are involved in environmental monitoring. This page provides contextual project information and highlights environmental monitoring, providing links to available data and reports. Content is updated annually.

## Block Island Wind Farm

### Description

Block Island is the first commercial offshore wind farm in the United States and is located off the coast of Rhode Island, covering 2 square kilometres. The offshore wind farm began commercial operation in December 2016. It is composed of 5 Haliade 150-6 MW GE turbines, for a total of 30 MW of installed capacity. The project uses pile driven jacket foundations made by Gulf Island Fabrication.

### Location

Block Island Wind Farm is located 6.1 km (3.8 miles) from Block Island, Rhode Island (U.S.) in the Atlantic Ocean.

### Licensing Information

Permits and/or permission obtained by the following agencies:

  - 2014: Rhode Island Department of Environmental Management (RIDEM), Water Quality Certificates
  - 2014: Bureau of Ocean Energy Management (BOEM), Right-of-Way (ROW) Grant
  - 2014: U.S. Army Corps of Engineers (ACORE), Department of the Army Construction Permit
  - 2012: Town of New Shoreham Zoning Board of Review, Special Use Permit for the Block Island Substation

### Project Timeline

  - December 2016: Farm becomes completely operational
  - April-September 2016: Construction Phase 2
  - July-October 2015: Construction Phase 1
  - 2015-2016: Hard bottom survey
  - 2015-2019: Recreational vessel survey
  - 2013-2019: Ventless lobster survey
  - 2012-2019: Monthly demersal trawl surveys
  - 2012: Essential Fish Habitat survey
  - 2009-2011: Passive and active acoustic bats survey
  - 2009-2011: Land based and offshore bird studies
  - October-November 2008: Passive acoustic monitoring of marine mammals
  - 2006-2010: NEXRAD data collection


### Key Environmental Issues

The Block Island Wind Farm is the first facility to be studied under BOEM's [Realtime Opportunity for Development Environmental Observations \(RODEO\)](#) study. RODEO aims to make direct, real-time measurements of the nature, intensity, and duration of potential stressors during the construction and initial operations of selected offshore wind facilities. Observations were made during the installation of the wind turbine foundations, the installation of the turbine towers, and during early operations.

## Metadata Documents

### Environmental Papers and Reports

  - [Effects of the Block Island Wind Farm on Benthic and Epifaunal Communities](#) (Fonseca et al. 2024)
  - [American lobster \*Homarus americanus\* responses to construction and operation of an offshore wind farm in southern New England](#) (Wilber et al. 2024)



### Contents

  - [Description](#)
  - [Location](#)
  - [Licensing Information](#)
  - [Project Timeline](#)
  - [Key Environmental Issues](#)
  - [Environmental Monitoring: Block Island Wind Farm](#)

#### Wind Project Site

<b>Title:</b>	Block Island Wind Farm
<b>Status:</b>	In Operation
<b>Project Manager:</b>	Ørsted
<b>Turbine Developer:</b>	GE Wind Energy
<b>Foundation Manufacturer:</b>	Gulf Island Fabrication
<b>Website:</b>	<a href="#">External Link</a>
<b>Construction Start:</b>	July 26, 2015
<b>Operation Start:</b>	December 12, 2016
<b>Info Last Updated:</b>	August 4, 2023
<b>Contact:</b>	Info <small>(login for email address)</small>

#### Details

<b>Technology:</b>	Fixed Offshore Wind
<b>Project Scale:</b>	Commercial Farm
<b>Turbine Model:</b>	Haliade 150-6 MW
<b>Hub Height:</b>	100 m
<b>Rotor Diameter:</b>	150 m

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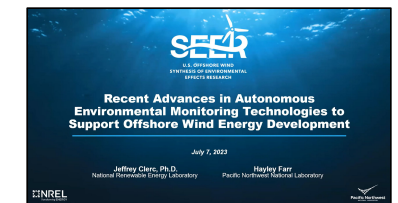
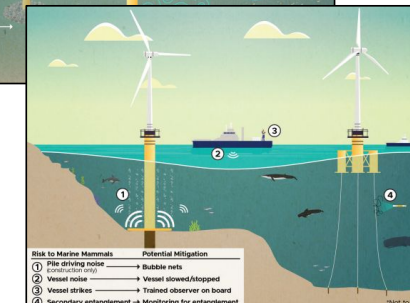
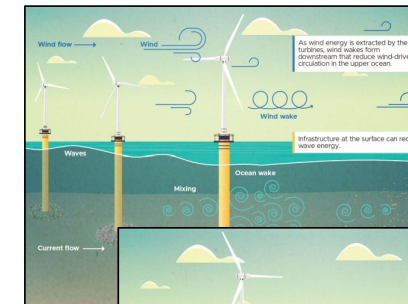


# U.S. Offshore Wind Synthesis of Environmental Effects Research (SEER)

- SEER is led by NREL and PNNL and aims to share information and resources on the environmental effects on offshore wind energy in the United States
- Early stakeholder engagement scoped the original project outputs and focus areas (e.g., stressor-receptor interactions, technology considerations)
- Key outputs include:
  - Research Briefs
  - Public Webinar Series
  - Research Recommendations
  - Pacific Coast Projects Finder



U.S. OFFSHORE WIND  
SYNTHESIS OF ENVIRONMENTAL  
EFFECTS RESEARCH

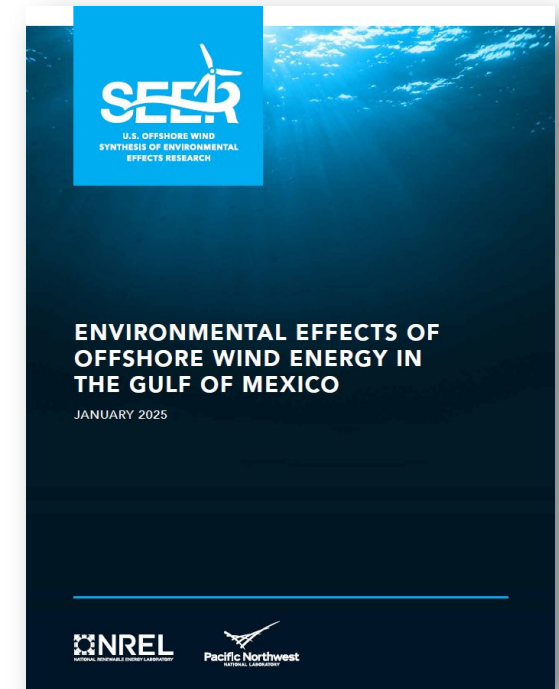
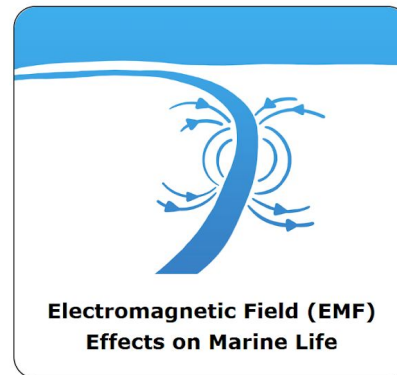
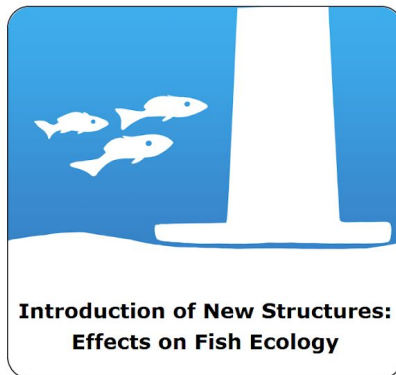
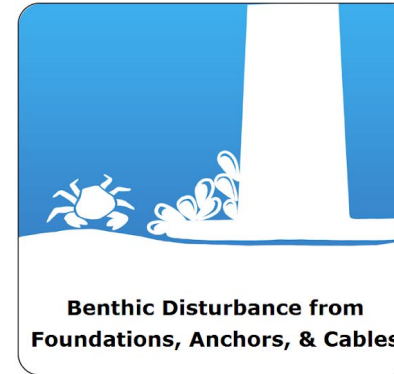
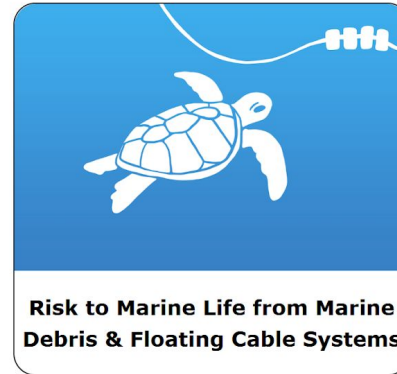
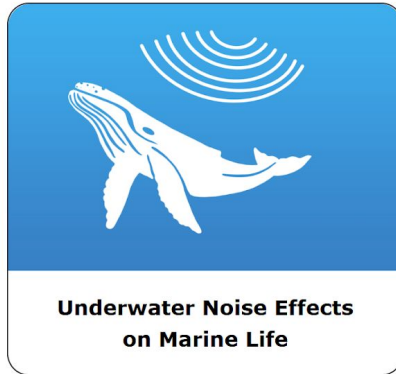


Research Recommendation	Research Team	Research Phase	Timeline
<b>Appropriation of Marine Life at Offshore</b>	Birds, Bats, Fish, Marine Mammals, and Seabirds	Understanding the effects of offshore wind energy on marine life, including the potential for displacement, harassment, and entanglement.	2021-2023
<b>Research Bat Activity and Distribution Offshore</b>	Bats, Bats, Fish, Marine Mammals, and Seabirds	Understanding the effects of offshore wind energy on bat activity and distribution, including the potential for displacement, harassment, and entanglement.	2021-2023
<b>Risk to Marine Mammals</b>	Bats, Bats, Fish, Marine Mammals, and Seabirds	Understanding the effects of offshore wind energy on marine mammals, including the potential for displacement, harassment, and entanglement.	2021-2023
<b>Baseline Ecological Data Collection</b>	Bats, Bats, Fish, Marine Mammals, and Seabirds	Understanding the baseline ecological conditions of the offshore wind energy area, including the potential for displacement, harassment, and entanglement.	2021-2023

<https://tethys.pnnl.gov/seer>



# SEER Research Briefs

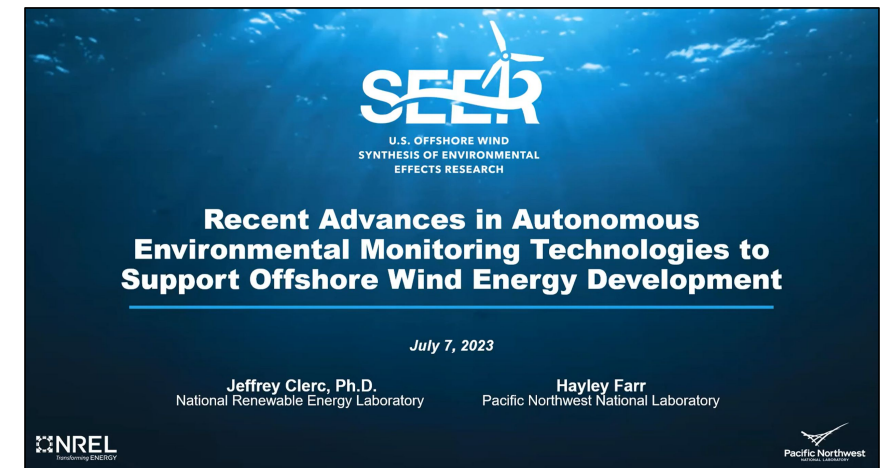
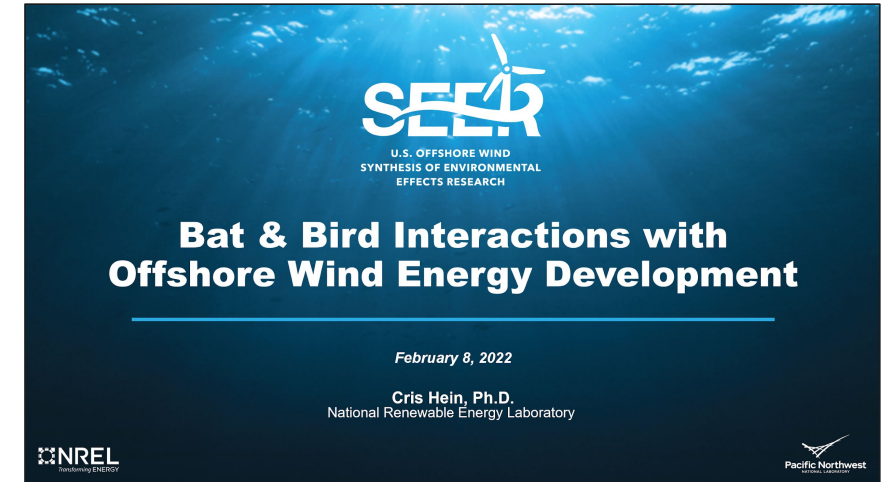


<https://tethys.pnnl.gov/seer>



# Public Webinar Series

- Past webinars include:
  - Underwater Noise & Entanglement Risks
  - Effects on Fish Ecology & Benthic Disturbance
  - Bat and Bird Interactions with Offshore Wind
  - Electromagnetic Fields & Vessel Collision
  - Regional Surveys to Improve Understanding
  - Advances in Autonomous Technologies
  - Emerging Technologies for Birds & Bats
  - Considerations from Nearshore Ecosystems
  - Oceanographic Responses to Offshore Wind
  - Social Perceptions of Environmental Effects



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# Research Recommendations for the U.S. Atlantic and Pacific Coasts



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## Pacific Offshore Wind Environmental Research Recommendations

The U.S. Offshore Wind Synthesis of Environmental Effects Research (SEER) effort compiled a database of research recommendations, from over 40 existing resources, that are relevant to the environmental effects of offshore wind energy development on the U.S. Pacific Coast (California, Oregon, and Washington). The SEER team then synthesized the over 500 individual research recommendations into roughly 50 broad overarching topics to provide an overview of what is included in the database.

The database includes input from the SEER Pacific Research Recommendations Workshop held during May 3-5, 2022. The stakeholder workshop focused on preconstruction (baseline) research needs for potential floating offshore wind energy development on the U.S. Pacific Coast. The workshop covered three marine life breakout groups on subsequent days to discuss recommendations related to: 1) marine mammals and sea turtles; 2) fish and invertebrates; and 3) birds and bats. The final **Workshop Report** includes a summary of discussions and key takeaways from each breakout group.

The online tool below presents the synthesized research recommendations and provides links to relevant citations. Results can be refined by selecting from the drop-down menus or entering a search term. Synthesized research recommendations are ordered alphabetically. The order does not signify the importance or priority of each recommendation.

[Download the complete database as a spreadsheet here.](#)

[Download the synthesized recommendations below as a spreadsheet here.](#)

Stressor:  
- Any -

Receptor:  
- Any -

Development Phase:  
- Any -

Search:

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Research Recommendation	Stressor/Topic	Receptor	Development Phase	Citations
<b>Aggregation of Marine Life at Structures</b>				
Understand effects of structures as aggregating devices for marine life, including effects on behavior, migratory patterns, recruitment, and foraging opportunities.	Attraction, Habitat Change	Bats, Birds, Invertebrates, Fishes, Marine mammals, Sea turtles	Construction, Operations & Maintenance	State of Maine 2021, Responsible Offshore Development Alliance (RODA) 2021, Degraer et al. 2021, Boehlert et al. 2008, Kelly (2020), ODFW (2020a)
<b>Baseline Bat Activity and Occurrence Offshore</b>				
Understand patterns of bat activity, movement, and habitat use in the offshore environment and how they change depending on weather and time of year; to assess the degree of likely interactions with offshore wind energy facilities.	Baseline	Bats	Pre-construction	Hein et al. 2021, Flick et al. 2021, State of Maine 2021
<b>Baseline Chemical Contamination</b>				
Analyze sediment, water, and tissue samples to identify chemicals that may be released in the environment.	Baseline	Ecosystem processes	Pre-construction	Boehlert et al. 2008
<b>Baseline Ecological Data Collection</b>				
Collect data on species distributions and variability, including times of high risk for migratory species. <a href="#">Read more</a>	Baseline	Bats, Benthos, Birds, Invertebrates, Fishes, Marine mammals, Sea	Pre-construction	Johnson et al. 2022, Johnson et al. 2022, Maxwell et al. 2022, Crowfoot et al. 2020, State of Maine 2021, Leirness 2021, Flick et al. 2021, Menza et al. 2016, Skewgar et al. 2011, Suryan et al. 2012, Boehlert et al. 2008, Liebezeit



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## Atlantic Offshore Wind Environmental Research Recommendations

With support from the New York Energy Research and Development Authority (NYISERDA) and the U.S. Department of Energy, the Regional Synthesis Workgroup <#> has created a database that compiles and synthesizes data gaps and research needs from existing sources relevant to the environmental effects of offshore wind energy development on the U.S. Atlantic Coast. The database allows researchers and funders to easily access, sort, and prioritize research recommendations.

The Regional Synthesis Workgroup is made up of independent scientific experts and was formed by the New York State Environmental Technical Working Group <#> to inform and provide guidance for regional-scale research and monitoring efforts in the eastern U.S. in relation to wildlife and offshore wind energy development. The database was developed for the Regional Synthesis Workgroup by the Biodiversity Research Institute <#> and the U.S. Offshore Wind Synthesis of Environmental Effects Research (SEER) group. The team compiled over 800 research recommendations from over 60 sources, and then condensed these into roughly 220 synthesized research recommendations. The database design and content were shaped by input from the Regional Synthesis Workgroup, as well as stakeholder input from a public meeting in September 2022 (recording <#>) and online survey in Fall 2022.

The **Database ReadMe File** <#> provides a summary of database contents, definitions of database fields, and additional information on the scope, development, and use of the database, as well as a suggested citation for the database. We strongly encourage reference to this document.

The online tool below presents a summary of the synthesized research recommendations and provides links to relevant citations. Results can be refined by selecting from the drop-down menus or entering a search term. Synthesized research recommendations are ordered alphabetically. The order does not signify the importance or priority of each recommendation.

[Download the complete database as a spreadsheet here.](#)

[Download the synthesized recommendations below as a spreadsheet here.](#)

Stressor:  
- Any -

Receptor:  
- Any -

Development Phase:  
- Any -

Search:

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Research Recommendation	Stressor/Topic	Receptor	Development Phase	Citations
<b>Adapt study design for OSW farm presence</b>				
Develop integrated methods and survey design to adapt long-term data collection to the presence of OSW structures. Survey methods include fisheries trawl, aerial and other baseline distribution and oceanographic surveys that could utilize autonomous monitoring methods.	Technology/ Methods Development	Bats, Benthos, Birds, Ecosystem/Oceanographic processes, Fishes, Invertebrates, Marine mammals	Pre-construction, Operations & Maintenance	Bureau of Ocean Energy Management (BOEM) 2022, Brodie et al. 2021, Degraer et al. 2021, Joint Nature Conservation Committee (JNCC) 2021, Responsible Offshore Development Alliance (RODA) 2021
<b>Assess acoustic exposure from OSW activities</b>				
Identify acoustic exposure and contextual conditions associated with potential acute response to OSW stressors, including a review of sound sources, assessment of potential exposure and susceptibility during different phases of development (including geophysical surveys for site characterization).	Noise	Benthos, Fishes, Invertebrates, Marine mammals, Sea turtles	Construction, Operations & Maintenance	Di Franco et al. 2020, Edmonds et al. 2016, Gulka and Williams 2020, Joint Nature Conservation Committee (JNCC) 2021, Kraus et al. 2019, Southall et al. 2021

<https://tethys.pnnl.gov/seer>



# Pacific Coast Offshore Wind Environmental Research Project Finder

- Compiles information on planned, ongoing, and recently completed research projects relevant to understanding the environmental effects of offshore wind along CA, OR, & WA
- Includes both field research/data collection and other non-field activities related to wildlife, habitat, and ecosystem processes
- The tool below provides key project details and links to relevant project outputs, including reports, journal articles, and datasets
- Short online survey for community members to contribute or update project information

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## Pacific Coast Offshore Wind Environmental Research Project Finder

The U.S. Offshore Wind Synthesis of Environmental Effects Research (SEER) effort is actively compiling information on planned, ongoing, and recently completed research projects relevant to better understanding the environmental effects of offshore wind development along the U.S. Pacific Coast (California, Oregon, Washington). The scope of projects includes both field research/data collection and other non-field activities related to wildlife, habitat, and ecosystem processes.

The tool below provides key project details and links to relevant project outputs, including reports, journal articles, and datasets. Results can be refined by selecting from the drop-down menus or entering a search term. If you would like to submit a project for inclusion, please [complete this survey](#) or email [tethys@pnnl.gov](mailto:tethys@pnnl.gov).

Download the complete tool as a spreadsheet [here](#).

Last Updated: January 31, 2024

Research Type:  
- Any - ▾

Scale:  
- Any - ▾

Location:  
- Any - ▾

Stressor:  
- Any - ▾

Receptor:  
- Any - ▾

Search:

Apply

Research Project	Lead Organization	Dates	Research Type	Scale & Location	Stressor & Receptor	Outputs
<b>A Demonstration Marine Biodiversity Observation Network (BON) for Ecosystem Monitoring</b>  The objective of this study is to develop a prototype ecosystem-based marine biodiversity network, across a range of habitats, looking at multiple trophic levels and species, and informed by historical data and past modeling efforts to the extent possible.	University of California Santa Barbara	2015-2023	Data Management	State California	Baseline, Habitat Change  Ecosystem processes, Physical Environment	<a href="#">Miller et al. 2023, SBC MBON Website</a>
<b>A Multi-Sensor Approach for Measuring Bird and Bat Collisions with Offshore Wind Turbines</b>  Advance WT-Bird system to also detect collisions and smaller birds/bats during day and night from vibration sensors mounted within the blades and camera sensors at base. Integrate machine learning (computer vision) to identify guild/species impacted by collision from imagery.... <a href="#">Read more</a>	Western EcoSystems Technology, Inc. (WEST)	2018-2025	Technology Development	Project Colorado, Maine, Minnesota	Avoidance, Collision  Bats, Birds	<a href="#">Johnson 2022, NWCC Webinar</a>
<b>A Risk Assessment Framework to Evaluate Effects of Offshore Wind Farms on the California Upwelling Ecosystem</b>  This project is conducting a study utilizing a coupled atmospheric-oceanographic numerical model to examine potential changes in coastal upwelling due to offshore wind project development.... <a href="#">Read more</a>	Integral Consulting Inc.	2020-2023	Modeling	Regional California	Changes in Flow  Physical Environment	<a href="#">Raghukumar et al. 2023, Raghukumar et al. 2022, Integral Consulting Inc 2021, POET Deep Dive Webinar</a>

<https://tethys.pnnl.gov/pacific-coast-offshore-wind-environmental-research-project-finder>



# Contact Information

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Email us to contribute:

- [tethys@pnnl.gov](mailto:tethys@pnnl.gov)
- [hayley.farr@pnnl.gov](mailto:hayley.farr@pnnl.gov)



<https://tethys.pnnl.gov>



A large, powerful ocean wave is captured in mid-break, with a massive plume of white water and spray erupting from its crest. The water is a deep, dark blue, and the sky above is a pale, clear blue. The wave's face is steep and textured with white foam. A semi-transparent teal banner is positioned across the lower third of the image, featuring the text 'ROSA Updates' in a clean, white, sans-serif font.

# ROSA Updates





# **Research Gaps Analysis Peer Review**

Tricia Perez

# 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

## Research Categories



Habitat Fragmentation/Modification



Socioeconomic & Sociocultural Impacts



Cumulative Impacts & Fisheries Mgmt



Sound/Vibration Impacts



Species Distribution/Composition



EMF



Fisheries Access & Gear Modification



Fisheries Engagement & Capacity Building



Survey Adaptation



Data Management



Resource Monitoring



# FishFORWRD | Fish and Fisheries Offshore Wind Research Database

increased  
availability  
create a community

## Research Projects

- Research projects from state agencies
- Implemented Plans

## Research Needs

- Individual research published documents from state agencies

## Research Gaps And

Database

ies

modification

Natural Impacts

Fisheries Mgmt

Position

modification

Capacity Building



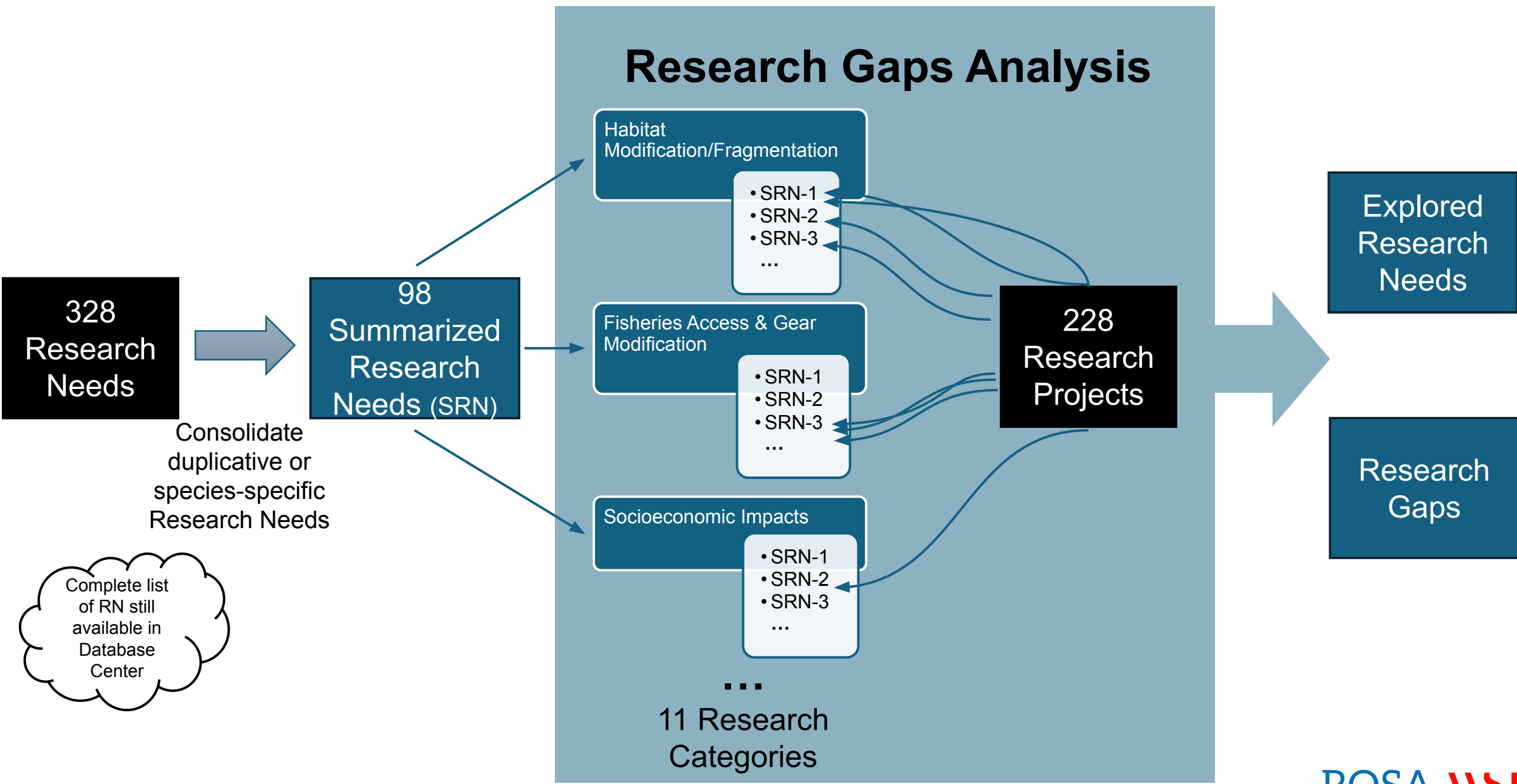
**We want your feedback on FishFORWRD!**

FishFORWRD has been live for one year!

Please complete this 3-minute [FishFORWRD User Survey](#) by October 17 2025 to help ROSA understand how the offshore energy and fisheries communities use FishFORWRD and determine how we can continue to improve the tool.

**Complete FishFORWRD Annual User Survey**

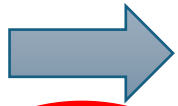
Responsible Offshore Science Alliance | 1050 Connecticut Avenue NW #65036 |  
Washington, DC 20035 US



# PEER REVIEW

Summer 2025

328  
Research  
Needs



98  
Summarized  
Research  
Needs (SRN)

Consolidate  
duplicative or  
species-specific  
Research Needs

Complete list  
of RN still  
available in  
Database  
Center

## 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
- ...

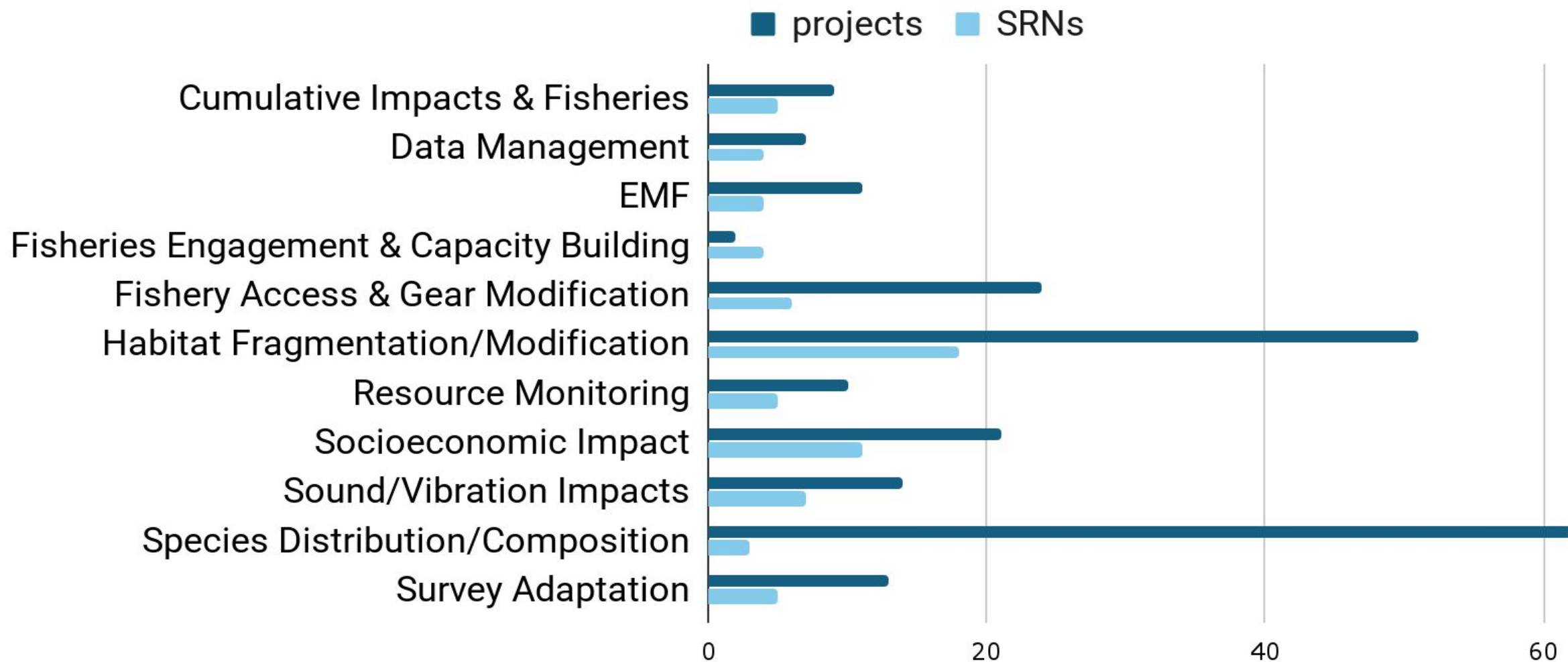
...  
11 Research  
Categories

228  
Research  
Projects

Explored  
Research  
Needs

Research  
Gaps





**72**

summarized research  
needs

**13**

new needs

**12**

research gaps

ROSA

# Examples of Summarized Research Needs

Research Category	SRN ID	Summarized Research Need	# of Projects Addressing
<b>Cumulative Impacts &amp; Fisheries Management Implications</b>	SRN-30	Cumulative Impact Assessment Framework/Guidance	1
	SRN-31	Cumulative Impact Assessments	6
	SRN-32	Alignment of policies across ocean sectors relative to offshore wind fisheries science objectives	GAP
	SRN-33	Priority Data Needs for Fisheries Managers	6
	SRN-34	Management Strategy Evaluation for Councils/Commissions	GAP

# Examples of Summarized Research Needs

Research Category	SRN ID	Summarized Research Need	# of Projects Addressing
Survey Adaptation	SRN-63	Alternate and Advanced Technologies and Survey Techniques	10
	SRN-64	Impacts on Fisheries-Independent Surveys	5
	SRN-65	Development of Interim Provisional Survey Indices	GAP
	SRN-66	Offshore Wind Project-Level Monitoring Data to Fill Regional Scientific Survey Data Needs	GAP
	SRN-67	New Fishery Observer Protocols	GAP



# 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

228  
Research  
Projects

Explored  
Research  
Needs

Projects  
Addressing Each Need

Location

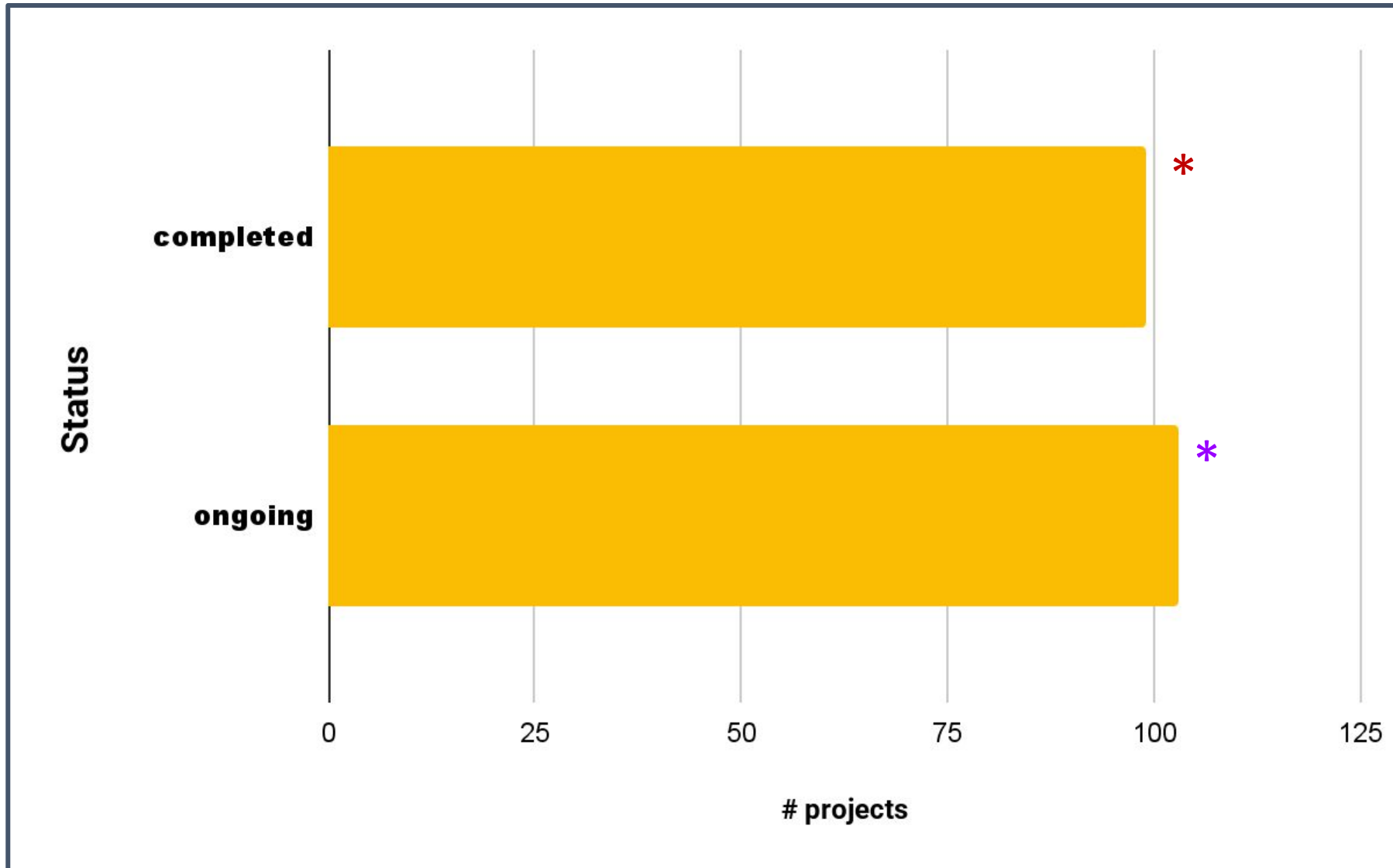
Methodology

Receptor

GAPS WITHIN  
EXPLORED NEEDS

Research  
Gaps

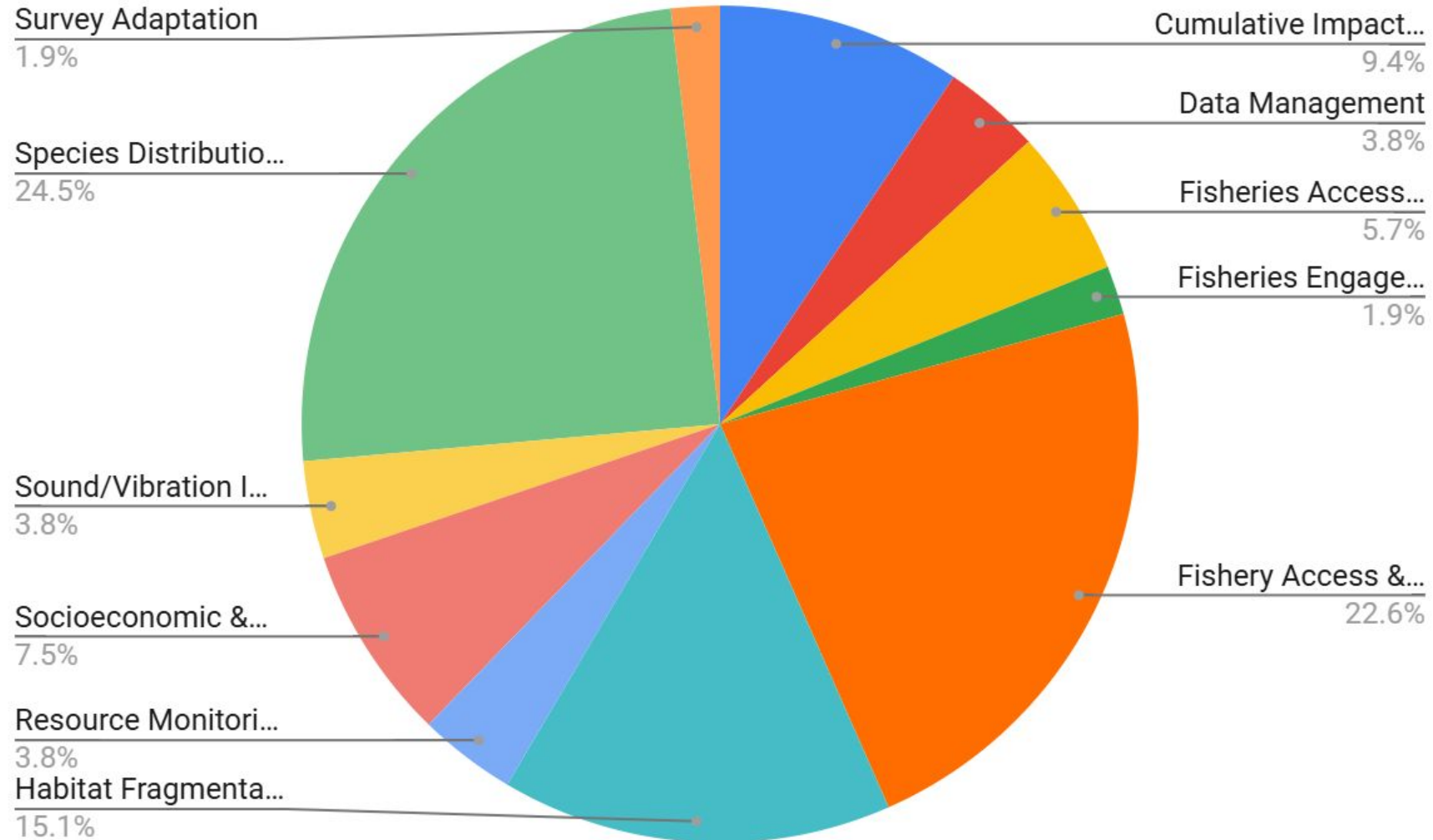
# Research Projects (not including developer FMP)



\*some projects may still be ongoing/unpublished/affected by administration change

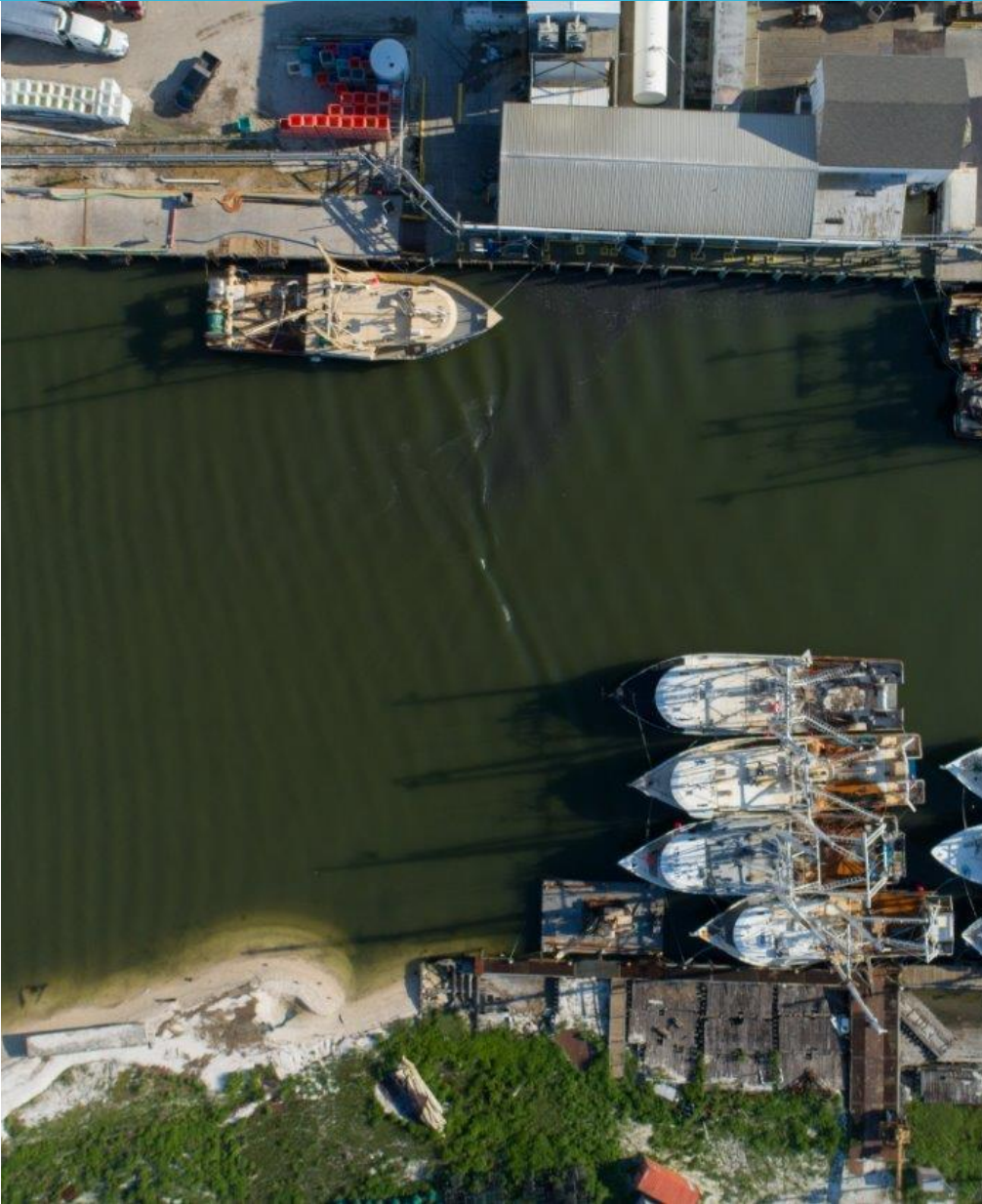
\*not including all of new projects coming online from recent RFPs

# Breadth of Ongoing Projects





# Research Gaps Analysis Results



## Benefits

- Provide efficiency for funders
- Facilitate next generation of scientists and new research ideas
- Inform future developer Fisheries Monitoring Plans
- Use of research needs as starting point for effects of other ocean uses with fish and fisheries

# Next Steps



*Sponsorship opportunities available*



## Biannual FishFORWRD Updates

- Adding Gaps Analysis Tabs  
**RELEASE IN OCTOBER**
- ~35 projects coming online in 2025/26

## Engagement of Gaps Analysis Results

- FishFORWRD Upload - *October*
- Final Report - *December*
- Results Webinar - *early 2026*
- Publication

Find full project information in Database Center

Existing Proj. and SRN XWalk Table

Id Srn	Id Ern	Receptor	Methodology	Location
All	All	All	All	All
SRN-1	Ex-53	Habitat	ROV/video/stills	Central Atlantic
SRN-1	Ex-60	Habitat	SPI/PV	New York/New Jersey Bight
SRN-1	Ex-109	Crustaceans	Acoustic Telemetry	Southern New England
SRN-2	Ex-65	Demersal/Groundfish/Squid	Baited Remote Underwater Video (BRUV)	New York/New Jersey Bight
SRN-2	Ex-67	Demersal/Groundfish/Squid	Acoustic Telemetry	Central Atlantic
SRN-2	Ex-95	Demersal/Groundfish/Squid	Baited Remote Underwater Video (BRUV)	New York/New Jersey Bight
SRN-2	Ex-109	Crustaceans	Acoustic Telemetry	Southern New England
SRN-2	Ex-110	Demersal/Groundfish/Squid	Trap/Pot	Southern New England
SRN-4	Ex-59	Habitat	Benthic Grab	New York/New Jersey Bight

SRN Summaries

SRN Locations

SRN Project Counts

Srn Id	Rsrch. Category	Summary	Rsrch. Needs Captured
All	All		
SRN-1	Habitat Fragmentation/Modification	What is/will be the gradient of change as you move away from individual turbines and/or wind farm areas? What is the distance of detectable habitat changes?	RN-34, RN-198
SRN-2	Habitat Fragmentation/Modification	Study relative abundance and spatial distribution of species attracted to turbines to examine aggregation/artificial reef effects	RN-199, RN-169, RN-32, RN-242, RN-125, RN-81, RN-11



# American Fisheries Society Annual Meeting



- San Antonio, TX - Aug. 11-14
- ROSA co-convoked a session on OSW
  - 5th consecutive year of co-convoking
  - Partnered with Tetra Tech, NYSERDA & others
  - 14 presentations plus posters & discussion
  - Tricia presented on research gaps
  - Well-attended with 40+ attendees
  - Currently seeking permissions to post presentations on our website
- ROSA's booth featured latest reports and an informal research gap prioritization exercise
- Potential future broadening of topics for AFS 2026 in Columbus, OH

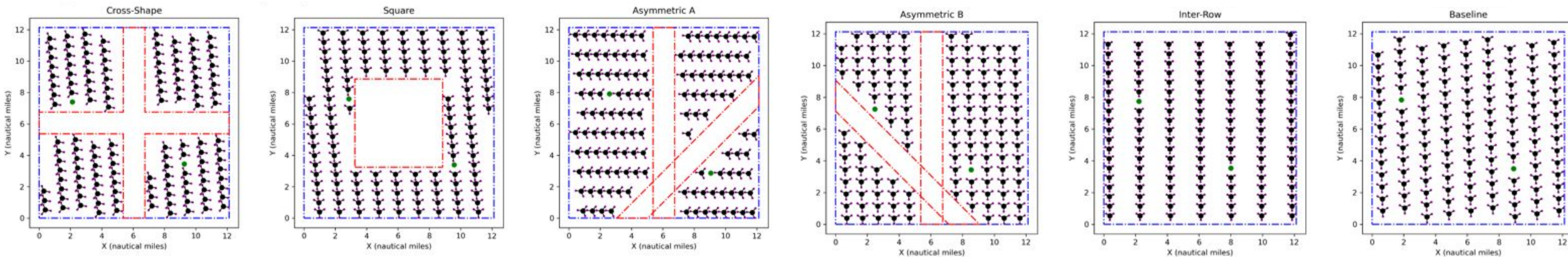


# Co-Design Solutions for U.S. Floating Offshore Wind Farms and Fishing Compatibility



**Goal:** Develop novel floating array design concepts for the U.S. industry through a co-design process with U.S. commercial and recreational fishermen that optimize the potential for floating wind farms to coexist with fishing activities.

## First attempt - Fishing-informed designs



This project is funded by National Offshore Wind Research and Development Consortium (NOWRDC) and ROSA's work was supported with funding from the Alliance for Sustainable Energy, LLC, Managing and Operating Contractor for the National Renewable Energy Laboratory (NREL) for the U.S. Department of Energy.





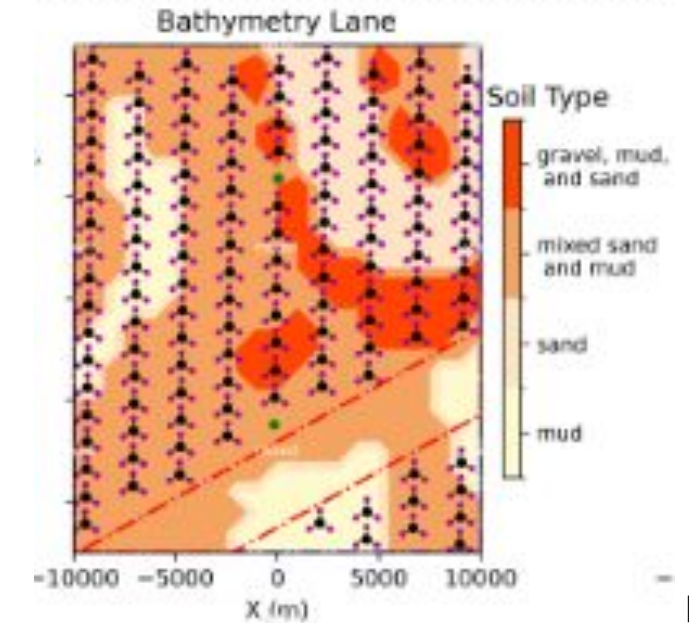
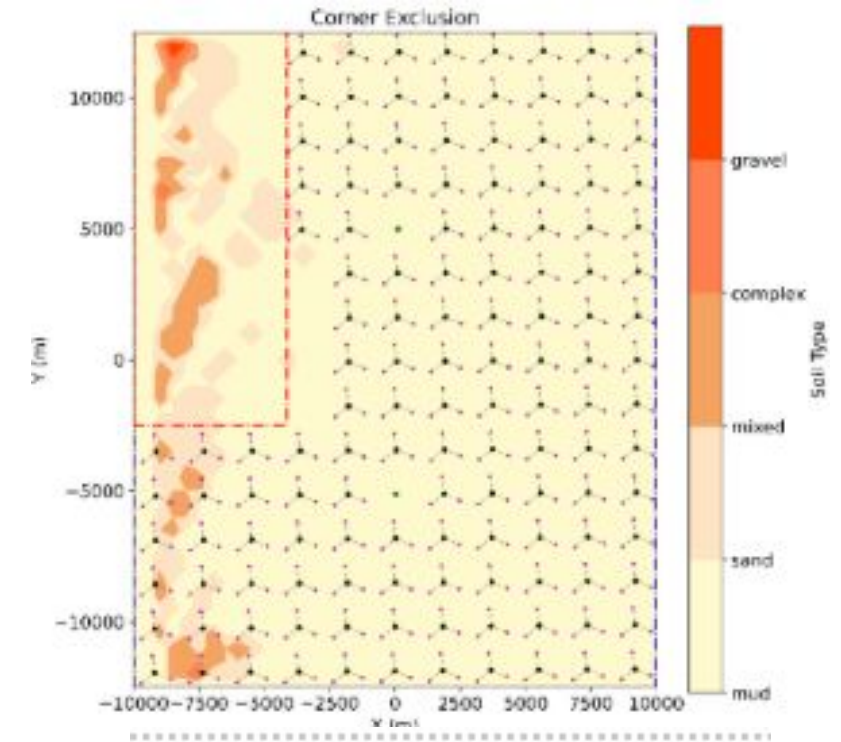
# Project Progress

## Gulf of Maine (Fixed Gear Case Study):

- 1st round revised based on feedback; new designs with bathy and soils shown to fishermen
- Mobile gear fisherman interviewed
- Final array designs under development

## Mid-Atlantic (Mobile Gear Case Study):

- Rec. fishing, longline (pelagic and demersal), gillnets, pots
- 1st round shown to fishermen, feedback being collected
- Project terminated and being wound up







# **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
- framework for cumulative impacts

**Supported by** Avangrid, Ørsted, Attentive Energy, AKRF, and MARCO. Actively seeking support.

# Two Primary Pathways to Improve Data Governance

## Regional Research & Monitoring Program

- Data Management and Sharing Plan
- ROSA Data Policy

## Guidance for ocean research community

- NJ, NY Data Availability Requirements



# Data Governance Actions



- Convened Data Governance Committee in February
- Held meetings with subgroups: Fishing Gear Data and Benthic Image Data
- Held Data Governance Briefing in May
- Partnered with MARCO, NROC, RWSC, Intertidal Agency for regional coordination
- Planned Data Governance in Motion meeting
  - November 12th, 9-4, Cambridge, MA
  - In-depth dive into fishing gear data governance steps
  - Advisory Council and Research Advisors

## DG Working Groups

Where should ROSA recommend people publish fisheries-related data?

How should data be organized to maximize discovery and reusability?

What else can ROSA do to support this?

Fishing Gear Data  
Working Group -  
draft  
Recommendations:  
Data Standard

- Darwin Core (DwC) - Flexible data structure based on occurrence of a species in a particular place & time
  - Current databases:
    - Unique to researchers
    - Often event-based (Expt-trip-tow-catch)
    - Can be mapped into DwC
  - DwC meets widely-accepted standards
  - Opportunities to support changes to structure
  - Easily interacts with major repositories

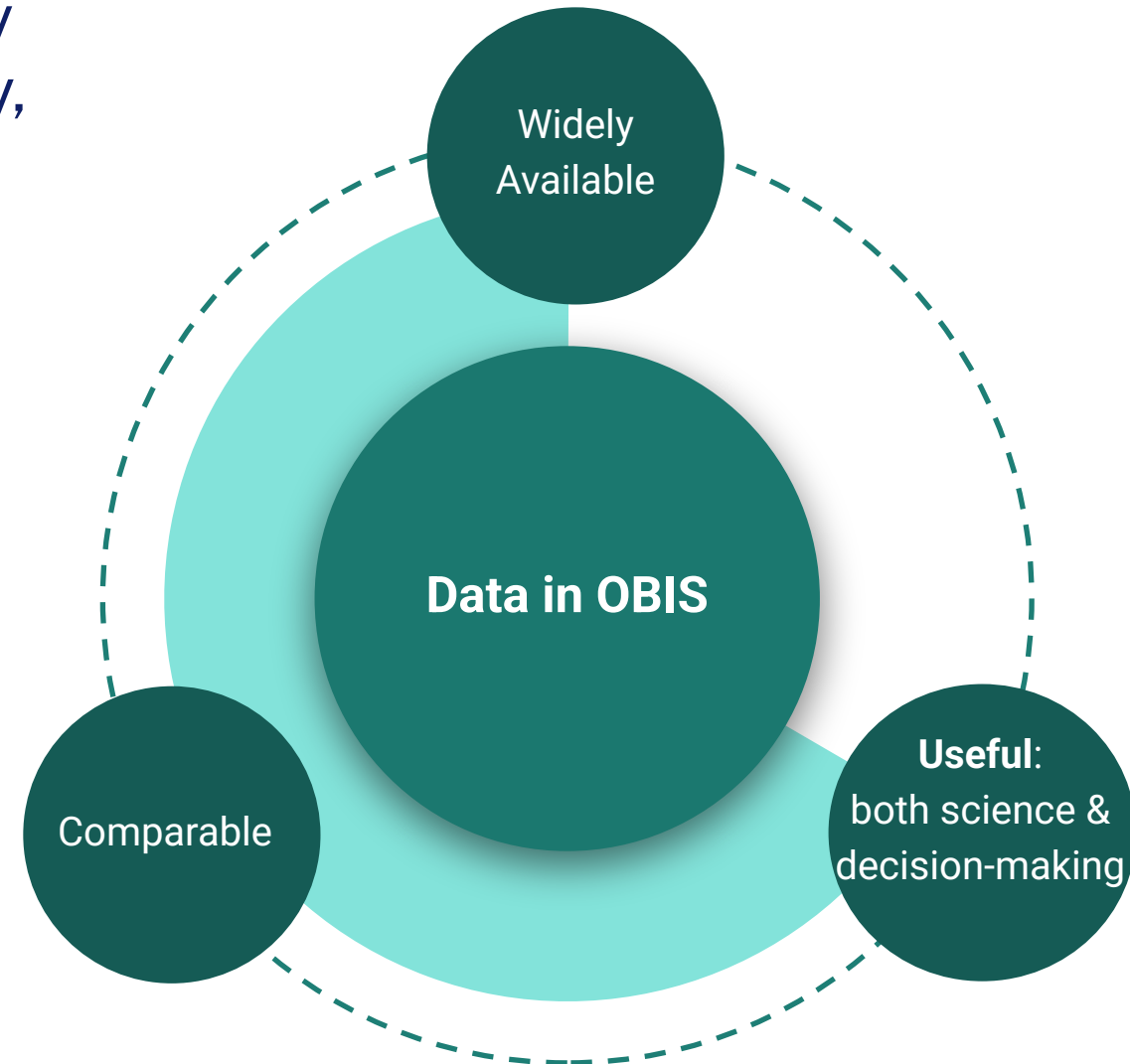
*Instead of spending 90% of your time cleaning data and 10% of your time analyzing and interpreting it, data standards allow you to spend 10% of your time managing/clearing data and 90% of your time analyzing and interpreting. - T. Stippel*

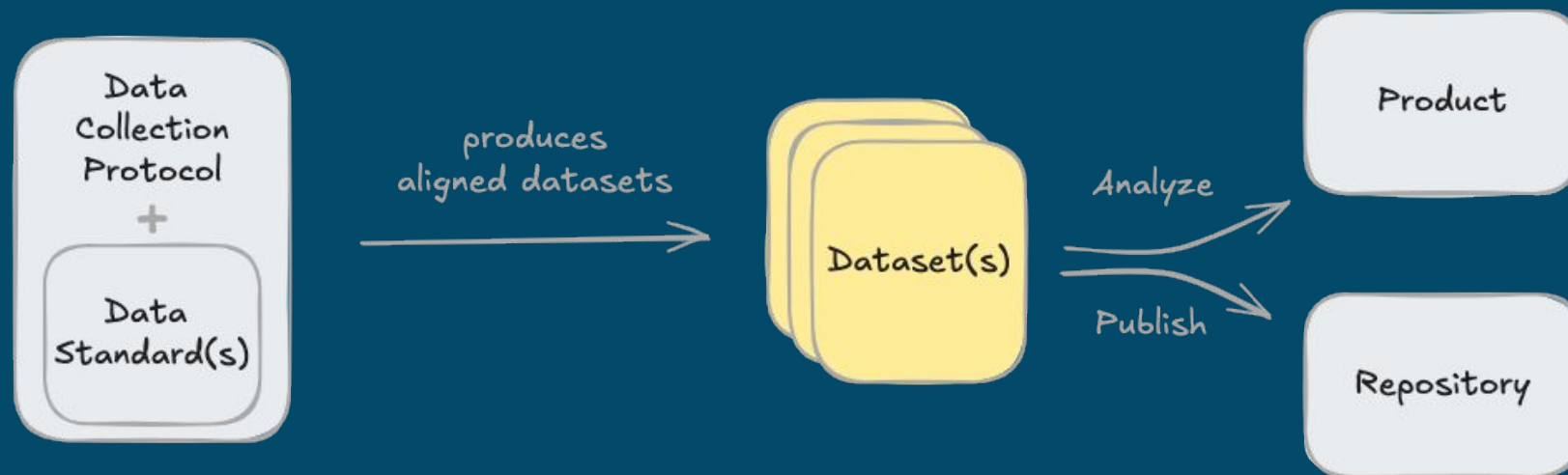
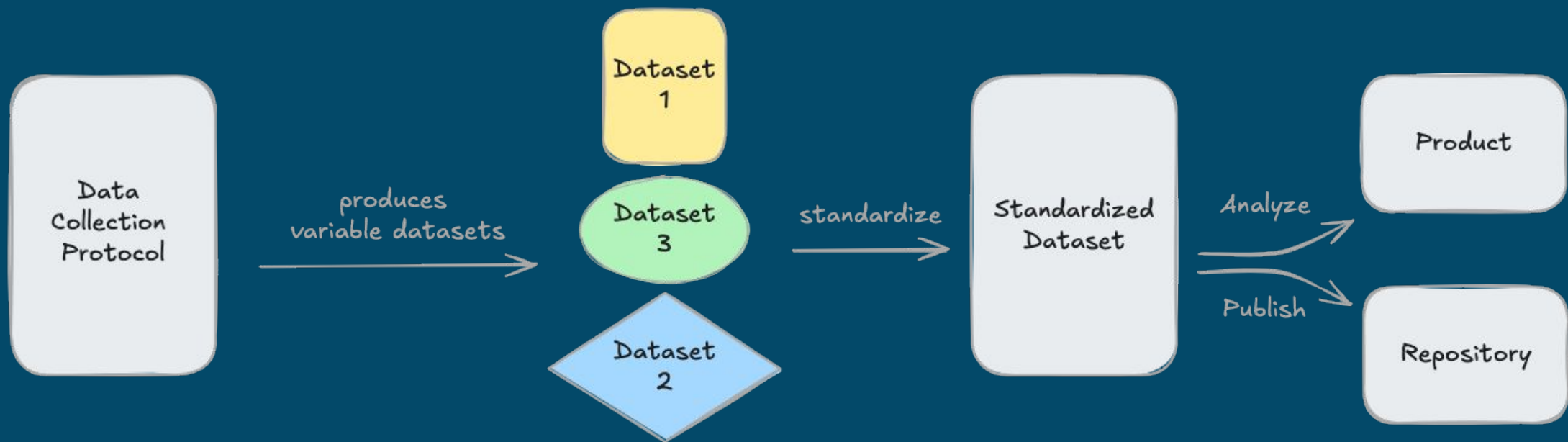


Fishing Gear Data  
Working Group -  
draft  
Recommendations:  
Repository

**Repository:** *A persistent, findable, searchable entity that provides infrastructure for long-term storage and access to data*

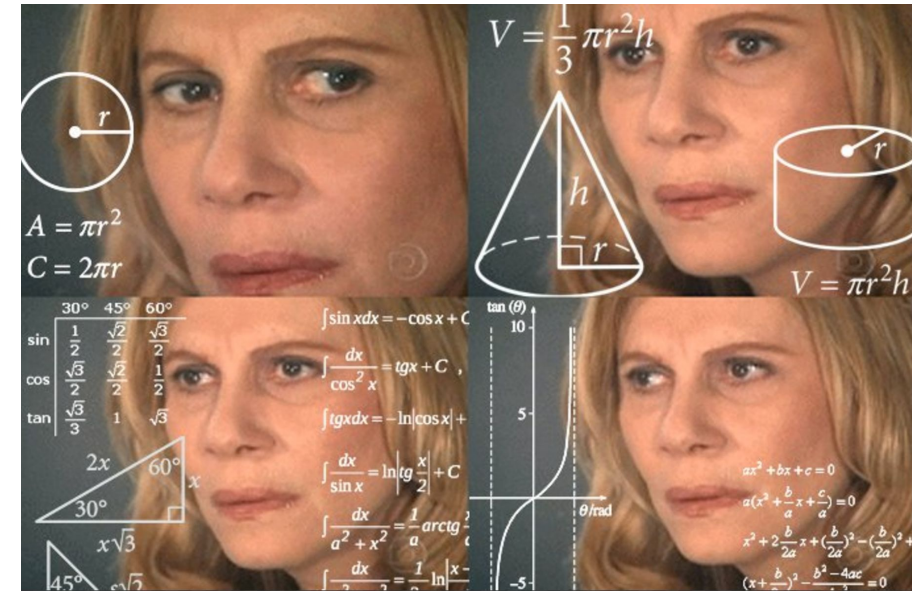
**OBIS** is global gateway  
on ocean biogeography,  
biodiversity, and  
information to address  
coastal & world ocean  
concerns





Fishing Gear Data  
Working Group -  
draft  
Recommendations:  
Ongoing

- Workshops in Aug. & Sept.
- Collecting feedback on recommendations
- Continuing to engage 1:1 to assist in mapping for each project to Darwin Core
- Workflow support
- Darwin Core is flexible - investigate community standards for data not currently incorporated
- Working toward approvals to publish to OBIS
- Data Governance in Motion - Nov. 12th





# Benthic Image Working Group

- Working 1:1 to improve metadata for internal management at a consultant
- Investigating audio visual standards
- Investigating opportunity to collectively use images to explore:
  - minimum data and metadata standards
  - shared metadata catalog
  - ideas for storing and preserving image data



# ROSA Data Governance in Motion

Register here:  
<https://bit.ly/4gi4AFf>



**Wednesday, November 12th, 9A-4P ET**

1 Broadway, Cambridge MA 02142 (*above the Kendall/MIT Red Line stop*)

- In person with hybrid option
- Target audience: ROSA Advisory Council and Research Advisors
- Meeting open to all
- Deep dive into Data Governance Program
- Focus on Fishing Gear Data
- Opportunity to provide strategic insight, oversight and foresight (hindsight, too, I suppose)

A large, powerful ocean wave is captured in mid-break, with a massive wall of water curling over and creating a spray of white foam at the crest. The water is a deep, vibrant blue-green color. The background shows the vast expanse of the ocean under a pale, clear sky. A semi-transparent teal banner is positioned across the lower third of the image, featuring the text "Action Items, Next Steps, and Other Business" in a clean, white, sans-serif font.

Action Items, Next Steps, and Other Business



# Action Items, Next Steps, and Other Business



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 & cooperative researchers

# **Data Governance In Motion**

**Wednesday, November 12, 2025**

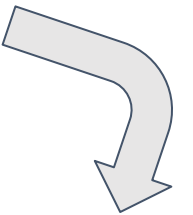
**9:00 am - 4:00 pm ET**

## ***Agenda will include:***

- **The latest updates from ROSA's Data Governance Program**
- **Attendees' consideration of how to adopt core policies for data management & sharing**
- **Outcomes from a pilot fisheries data sharing example**

***Together we will build a shared understanding of data governance practices & tools that improve fisheries data management, promote transparency, and strengthen collaboration while reducing duplication of effort.***

Register here







**ROSA**  
Responsible Offshore  
Science Alliance

**Thank you!**

**NEXT ROSA Advisory Council Meeting**  
December 18, 2025 - 1pm ET