ROSA
Responsible Offshore Science Alliance

ROSA Advisory Council

September 25, 2025

Agenda

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

ROSA

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† 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.

*†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)*

ROSA

Breakout Groups

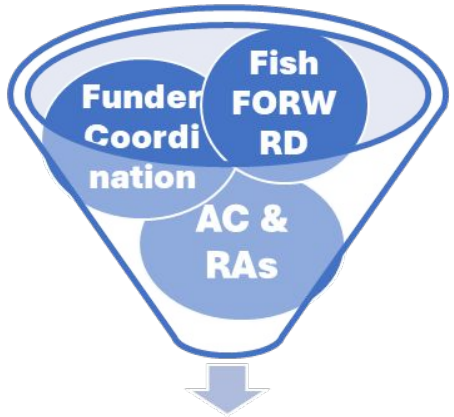
20 minutes for Discussion

Breakout Group
Readout & Discussion

Regional Research & Monitoring Program

Tricia Perez

ROSA RFP Development Process



RFP Development Plan	Research Topic Areas	Draft & Publish RFP	Review Concept Papers & Full Applications	Select Final Projects & Negotiate	Project Start & Management
complete	complete	complete	complete	current step	next step

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Regional Research & Monitoring

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

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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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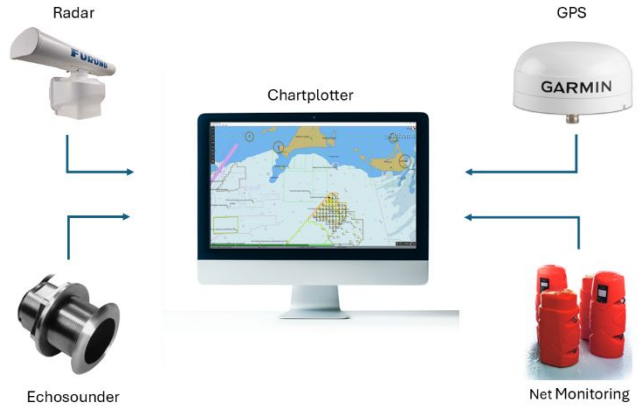
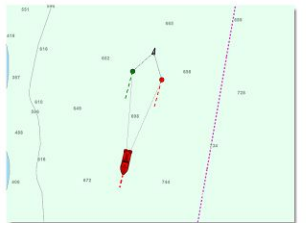
	GMRI	Supporting Fisheries Access in the Gulf of Maine	GOM
Larval Impacts	SMAST	Black Sea Bass Connectivity	SNE
Fisheries Monitoring	NEAQ	Impact of wind development on pelagic fishes	SNE
	SMAST	OFW Regional Monitoring and Analysis	SNE & Mid
	ASA Analysis & Communication, Inc	Multi-frequency Acoustic Monitoring 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

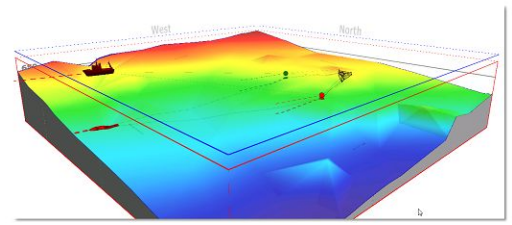
Evaluation of Technologies for Trawl and Dredge Vessels to Safely Operate within Offshore Wind Farms

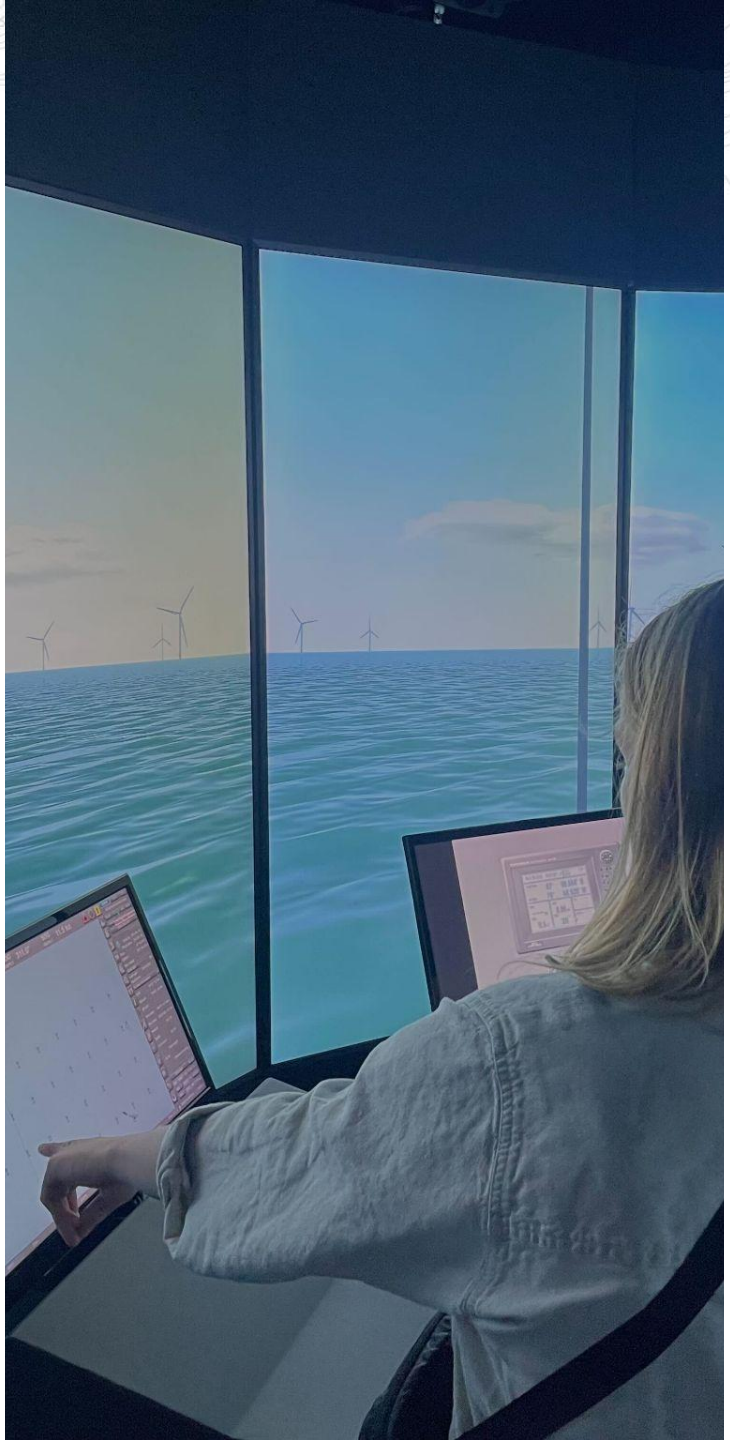
- PI: Christopher Rillahan, SMAST – UMass Dartmouth (crillahan@umassd.edu)
- Co-PIs: Pingguo He, Paul Farnham & Michael Decker (F/V Heather Lynn), John Lees (Owner of 5 scallop vessels)

- 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

Gulf of Maine Research Institute

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)

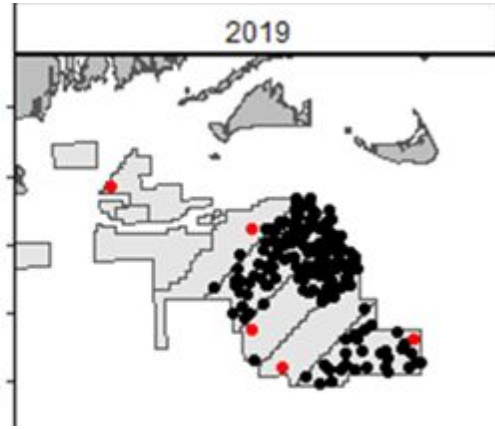
mzavell@umassd.edu

- **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

Anderson Cabot Center for Ocean Life at the New England Aquarium

INSPIRE ENVIRONMENTAL

6 developers, 9 leases

Began in 2022, now in 4th year

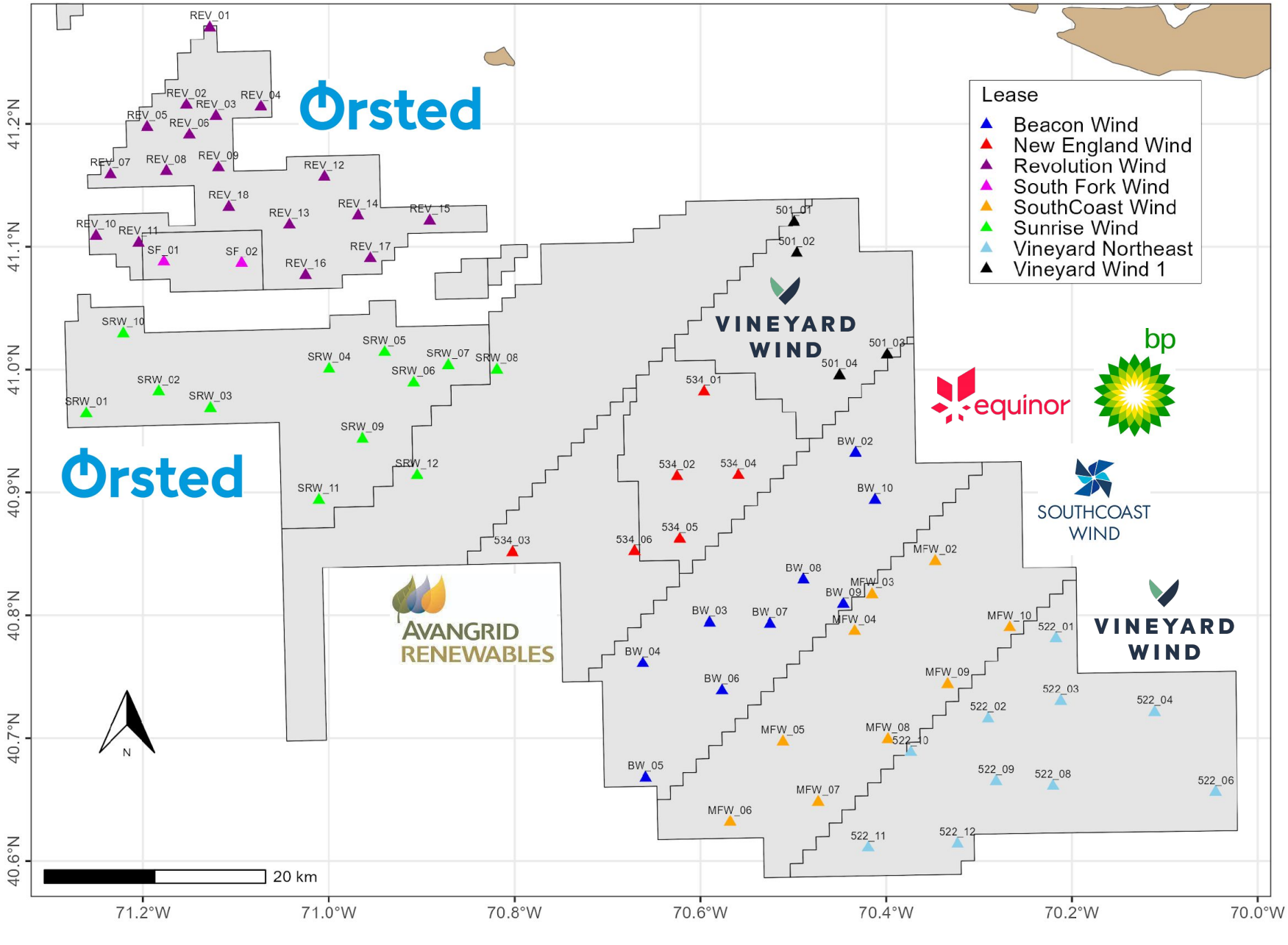
70 acoustic receiver stations

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)

Anderson Cabot Center for Ocean Life at the New England Aquarium

INSPIRE ENVIRONMENTAL


x89


x117

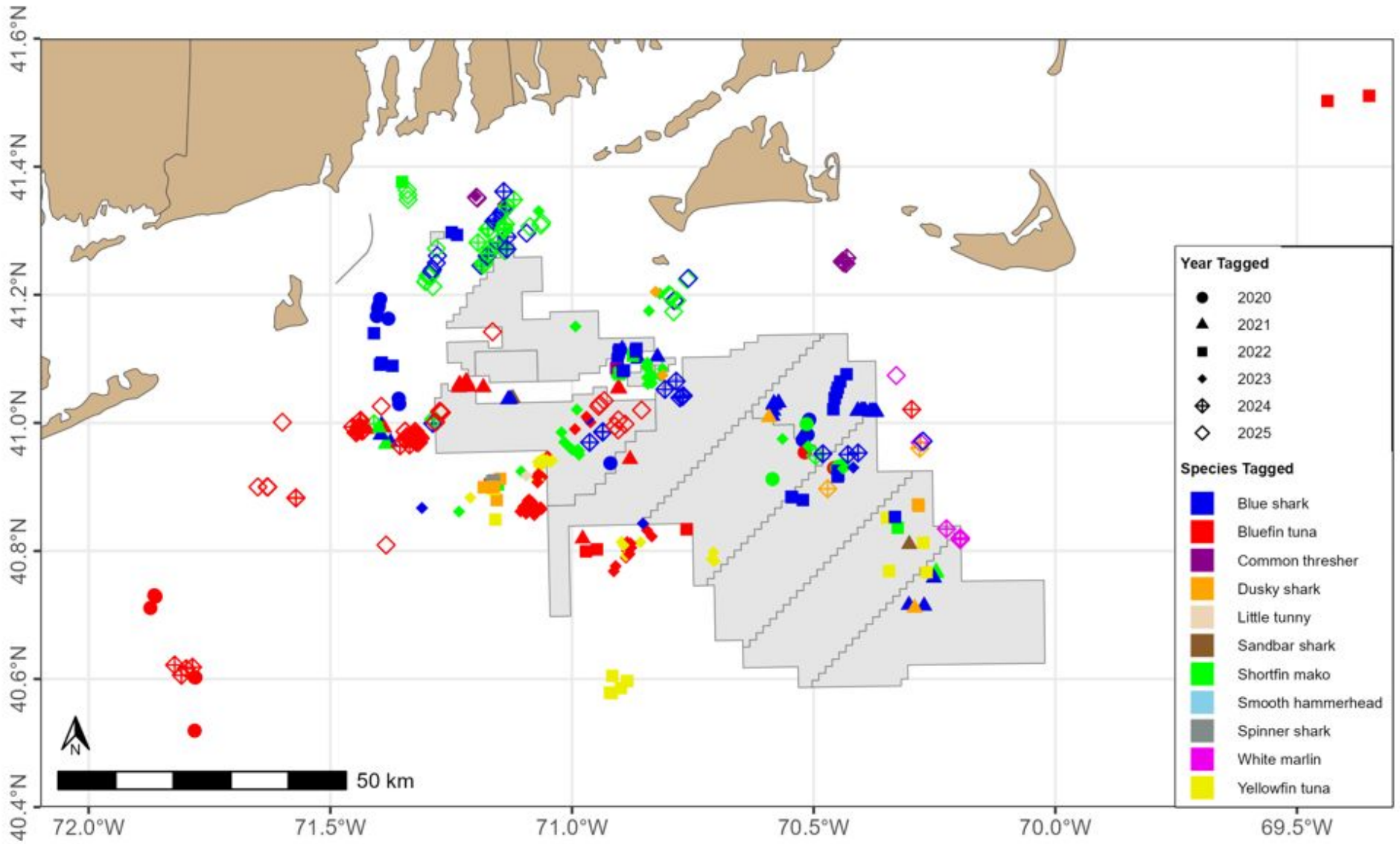

x13


x14

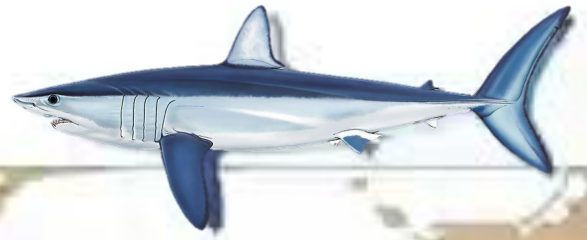

x159


x31

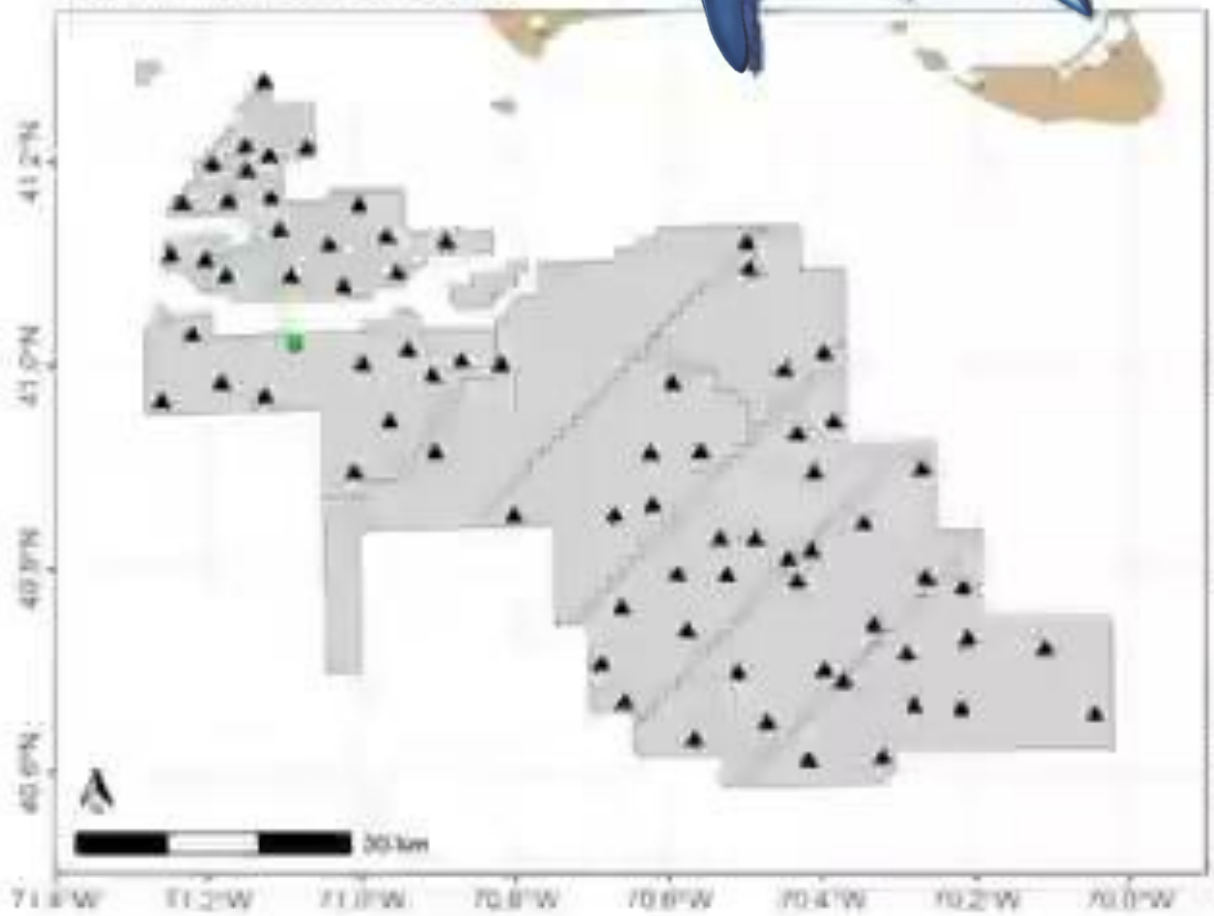

x5

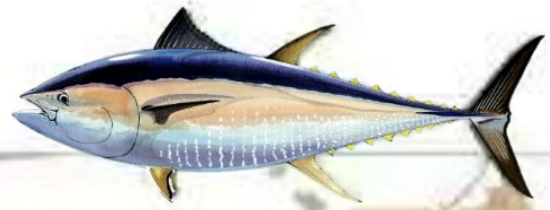


Why regional monitoring is essential

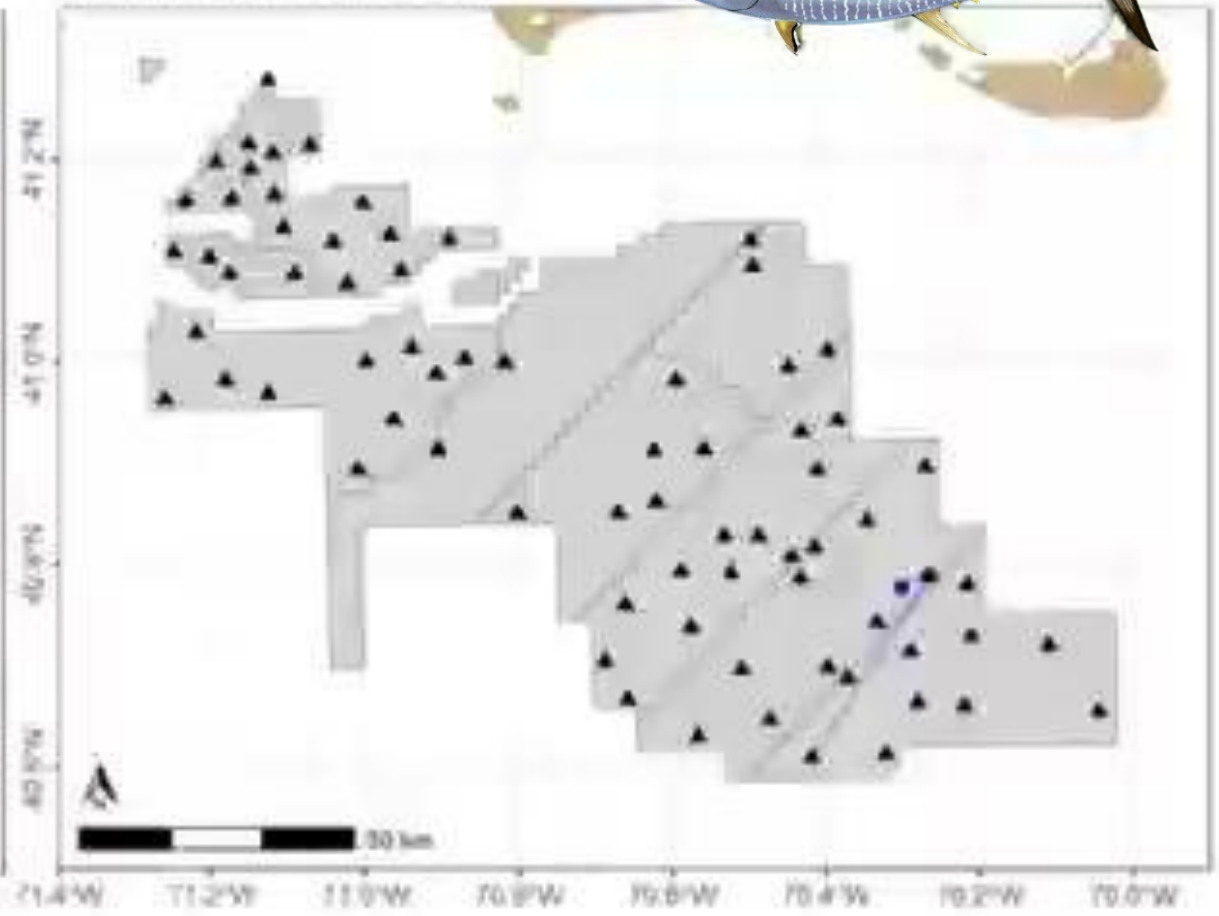


Shortfin Mako 2023-06-15

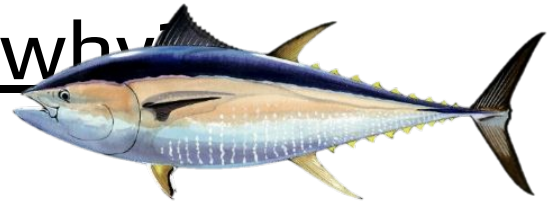




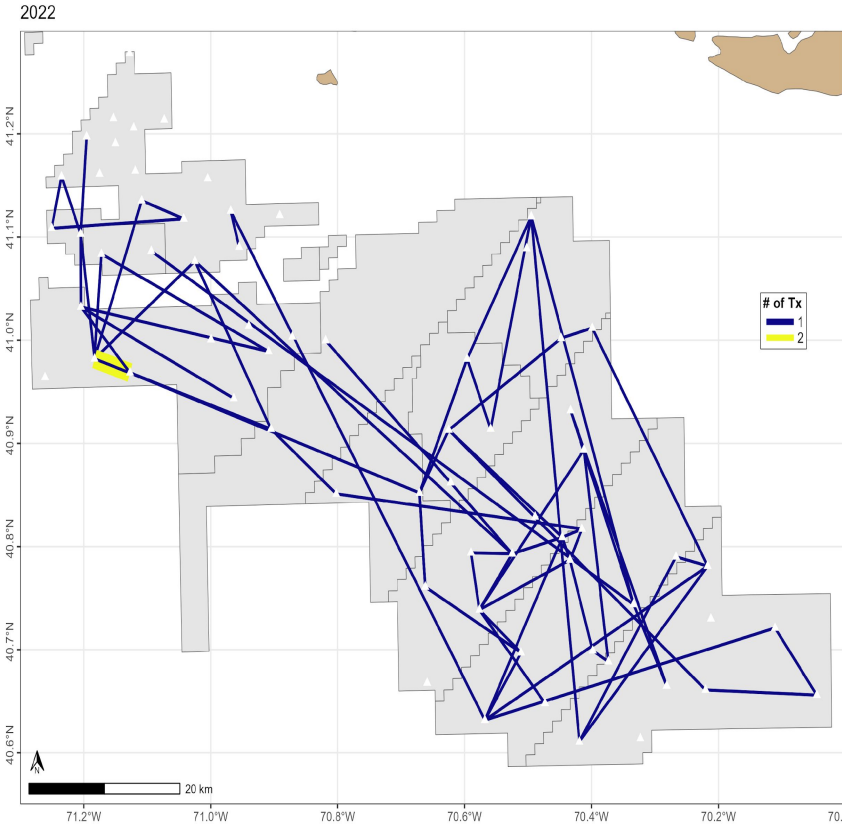
Bluefin Tuna 2023-06-15



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

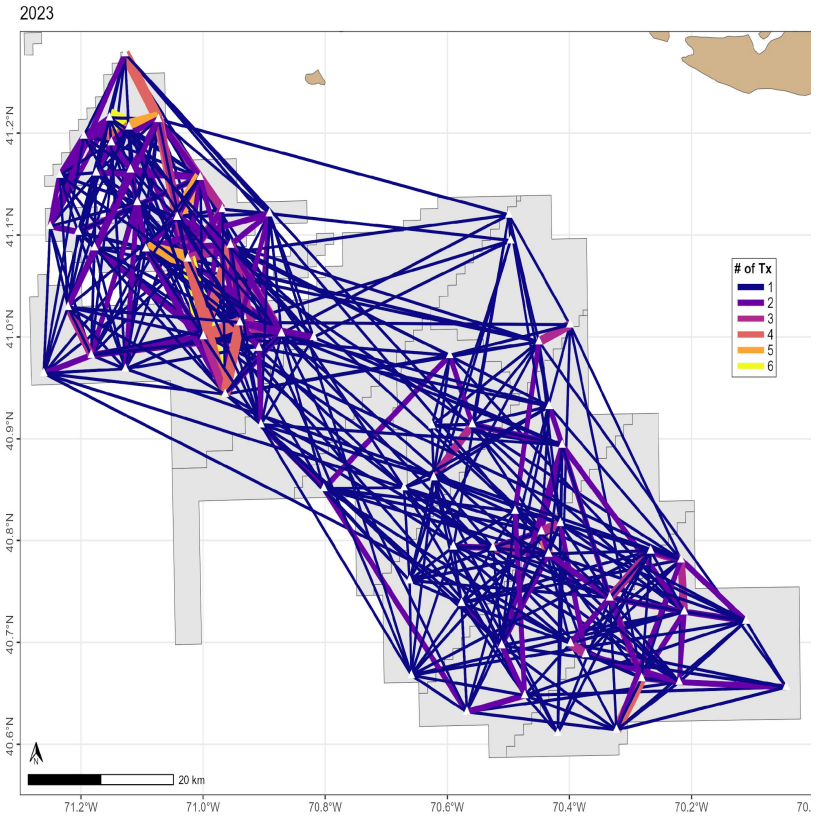


2022



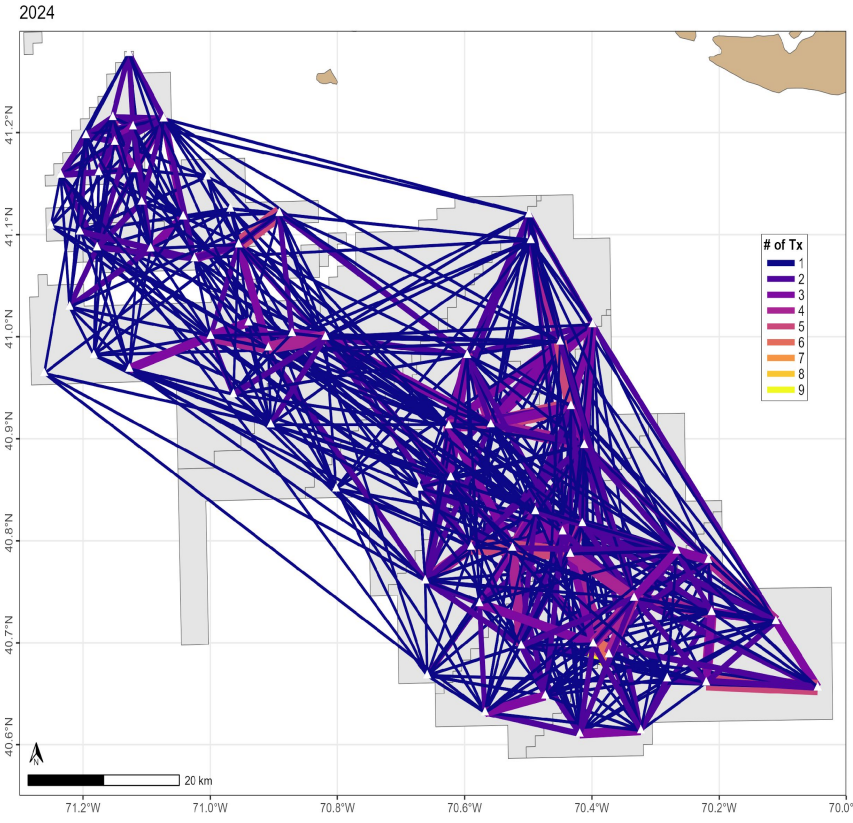
5 tagged, 12 tracked (10 returning fish)

2023



35 tagged, 40 tracked (10 returning fish)

2024



52 tagged, 40 tracked (18 returning fish)

ROSA funded project: Species Distribution Modeling

Anderson Cabot Center for Ocean Life at the New England Aquarium

Jeff Kneebone (PI)
Edward Kim
Emily Jones

SAN DIEGO STATE

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

WOODS HOLE OCEANOGRAPHIC INSTITUTION

Martin Arostegui
Camrin Braun

GLOUCESTER MARINE GENOMICS INSTITUTE

Tim O'Donnell

Commonwealth of Massachusetts DIVISION of MARINE FISHERIES

John Logan

MONMOUTH

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.

PROJECT FACT SHEETS AVAILABLE ON WEBSITE

rosascience.org/awarded-projects

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ROSA Regional Research & Monitoring: Awarded Projects

Learn more about ROSA Regional Research & Monitoring projects in each topic area. View the project fact sheet for a brief overview of each project.

Projects awarded from ROSA's first Regional RFP titled *Advancing Regional Solutions for Fisheries and Offshore Wind*. More information on the RFP can be found here.

SUPPORTING FISHERIES ACCESS

UNDERSTANDING POTENTIAL IMPACTS TO LARVAL FISH

Connectivity and Dispersal of Black Sea Bass, Centropristis striata, in Southern New England

University of Massachusetts Dartmouth SMAST

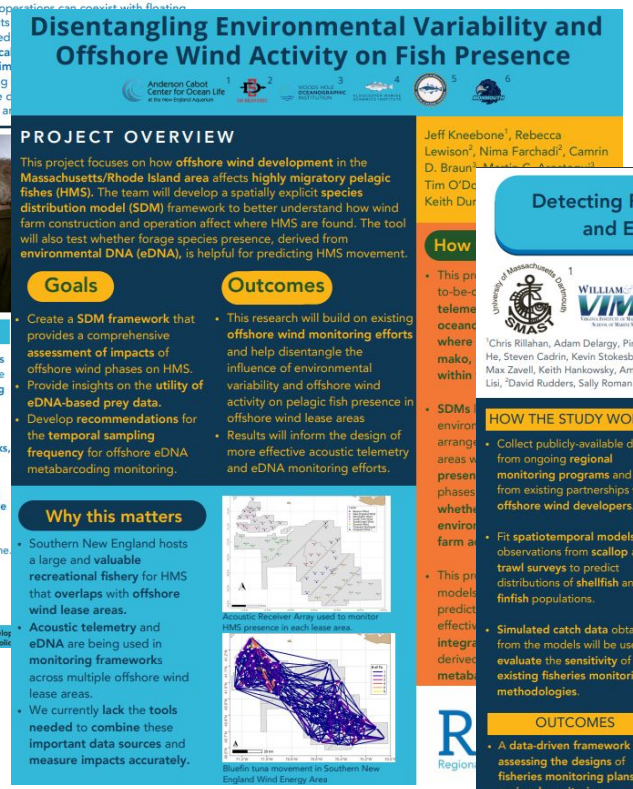
The overarching objective of this proposal is to identify if windfarms in Southern New England change the dispersal and connectivity of eggs and young black sea bass (BSB) at scales from within individual turbines to across windfarm leases and the broader region.

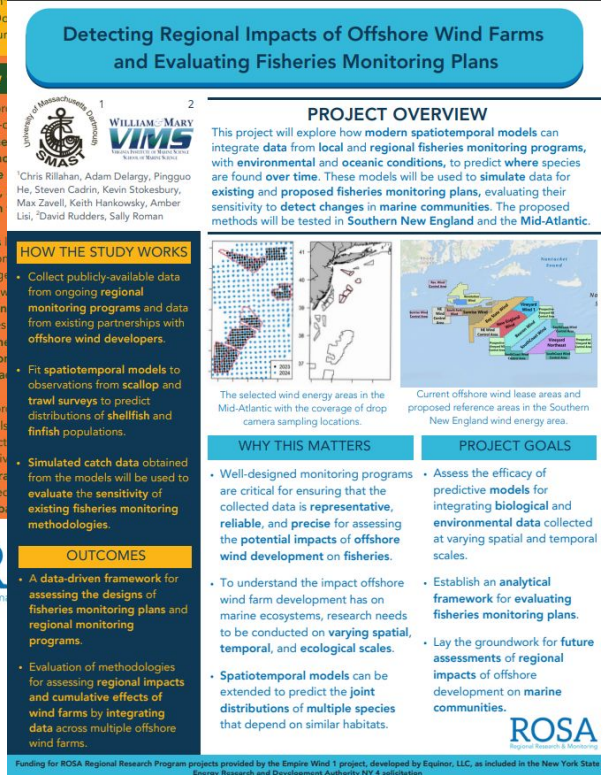
Project Fact Sheet

FISHERIES MONITORING

Funding for projects selected from the ROSA Regional Request for Proposals are provided by the Empire Wind 1 project, developed by Equinor, LLC, as included in the New York State Energy Research and Development Authority (NYSERDA) New York 4 solicitation for awarded Offshore Wind Renewable Energy Certificates.

Explore ROSA's Fish and Fisheries Offshore Wind Research Database (FishFORWRD) to view how these projects complement other offshore wind fisheries





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

RWSC
Regional Wildlife Science Collaborative

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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

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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

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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: • Each awardee provides brief presentation of new project and coordination activities • Directly introduce and connect project teams • Discuss coordination expectations and opportunities	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 Regional monitoring Pooling funds	Expanded list of funders - active and future
6	Tues Dec 9, 1-2:30pm ET		

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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

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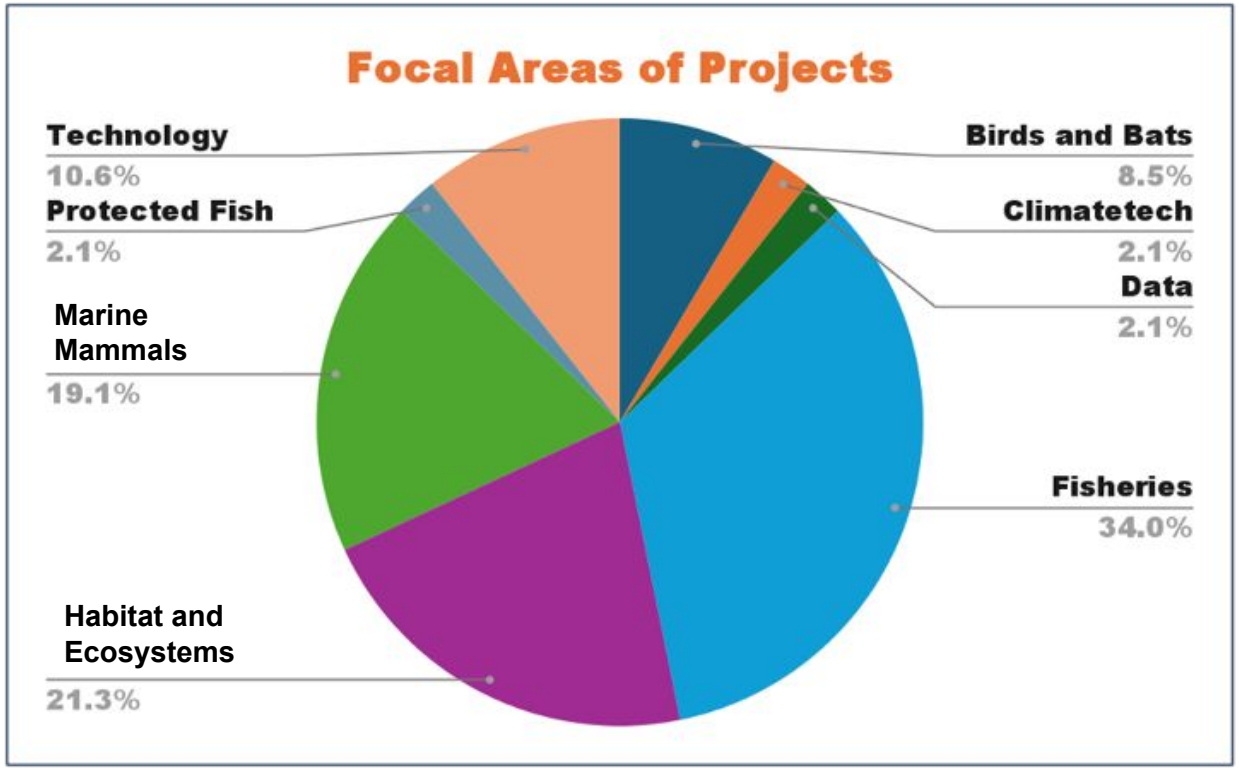
Summary of new projects

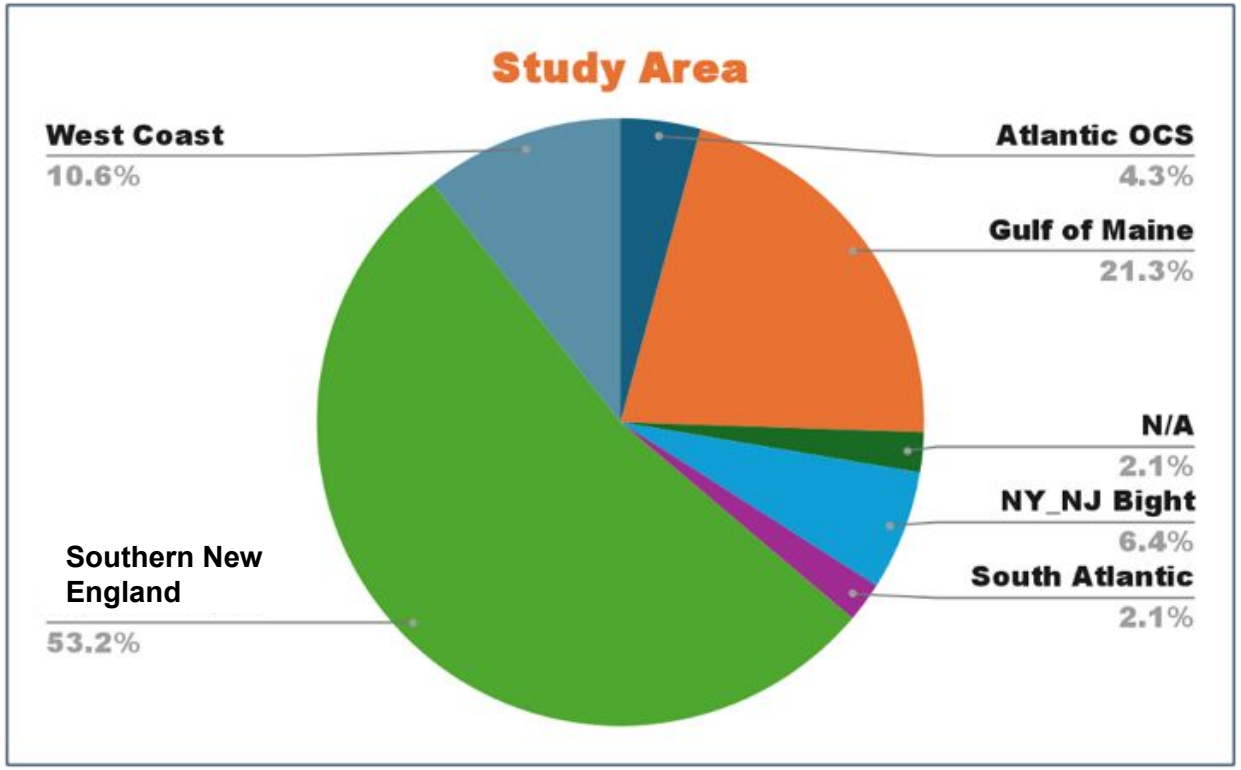
Topic Area	Funder(s)
Birds and Bats	Maine GEO, MassCEC, RMI, RWSC
Climatech	MassCEC
Fisheries & Protected Fish Species	Maine GEO MassCEC RMI ROSA NYSERDA
Habitat and Ecology	MassCEC NOAA Fisheries RMI RWSC
Marine Mammals	Maine GEO MassCEC MMC NFWF
Technology	NOWRDC

Summary of new projects

Projects by topic & study region

Caveats: some projects span focal areas and study areas





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Drivers of project coordination (areas of overlap)

Spatial - Same study area

Temporal - Same data collection period

Data - Same data types/products

Personnel/Equipment - Committed to multiple projects

Data pipeline - Outputs from one, inputs/supplements another

Research Question - Same/similar/complementary

Expenses - Ship time, equipment, travel costs

Contractual - Requirement to allocate effort/budget for coordination

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
- Julia Dombroski, Research Director julia@rwsc.org

ROSA

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

- Reneé Reilly, Executive Director renee@rosascience.org
- Mike Pol, Research Director mike@rosascience.org
- Patricia Perez, Research Program Manager tricia@rosascience.org

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Break

Partner Updates

Call for Advisory Panel Members

New England Fishery Management Council

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.

ROSA

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

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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 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
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

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Common questions on the RFA

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.

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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.

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Overview of Program Components

Intended Program Purpose

Payment & Re-Engagement

Eligibility; Demonstrable Losses/Costs; Claim Valuation

Claim Evaluation, Deficiencies, & Dispute Resolution

Claims Process. Support, & Technology

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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 – August 2025	Consultation on claim eligibility – *Who is eligible for compensation?*
August – November 2025	Consultation on loss eligibility and valuation – *What types of losses does the program pay? How is compensation calculated?*
November – January 2026	Consultation on documentation requirements for claimants – *What must claimants submit to prove their eligible losses?*
February – June 2026	Finalizing fund design and reporting on results – *What processes/systems are needed to administer the Program?*

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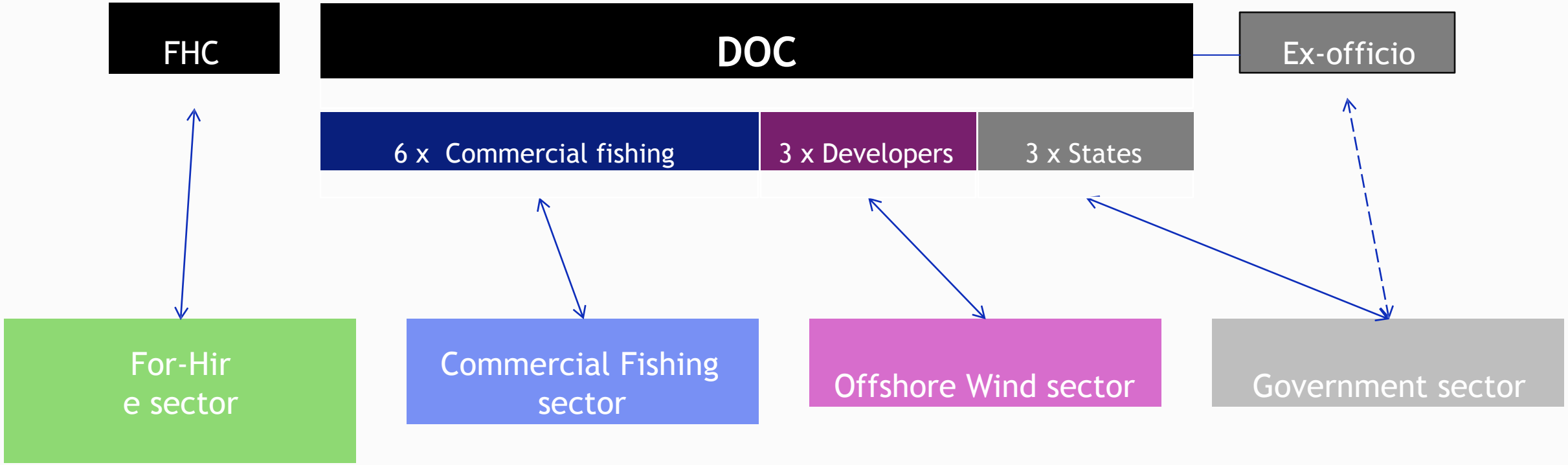
Relevant Stakeholders for the RFA Project



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

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Governing Committees

Design Oversight Committee ("DOC")

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*

For-Hire Committee ("FHC")

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*

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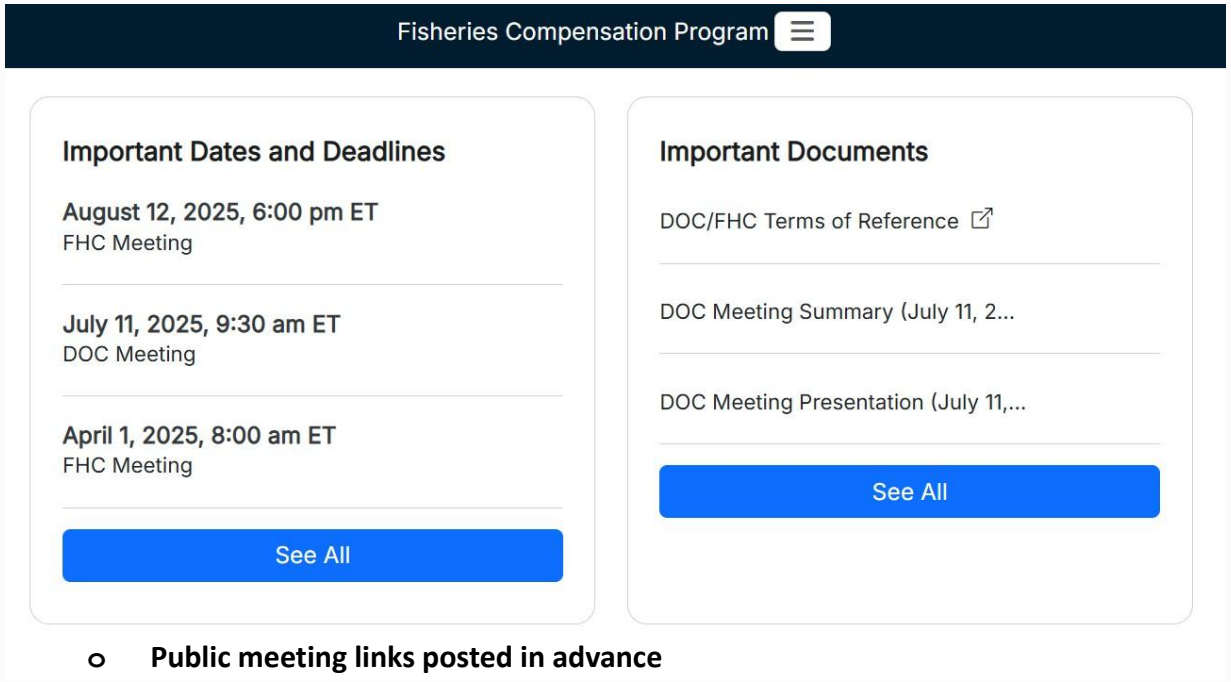
Contact Us



- **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
contact@rfainfo.com

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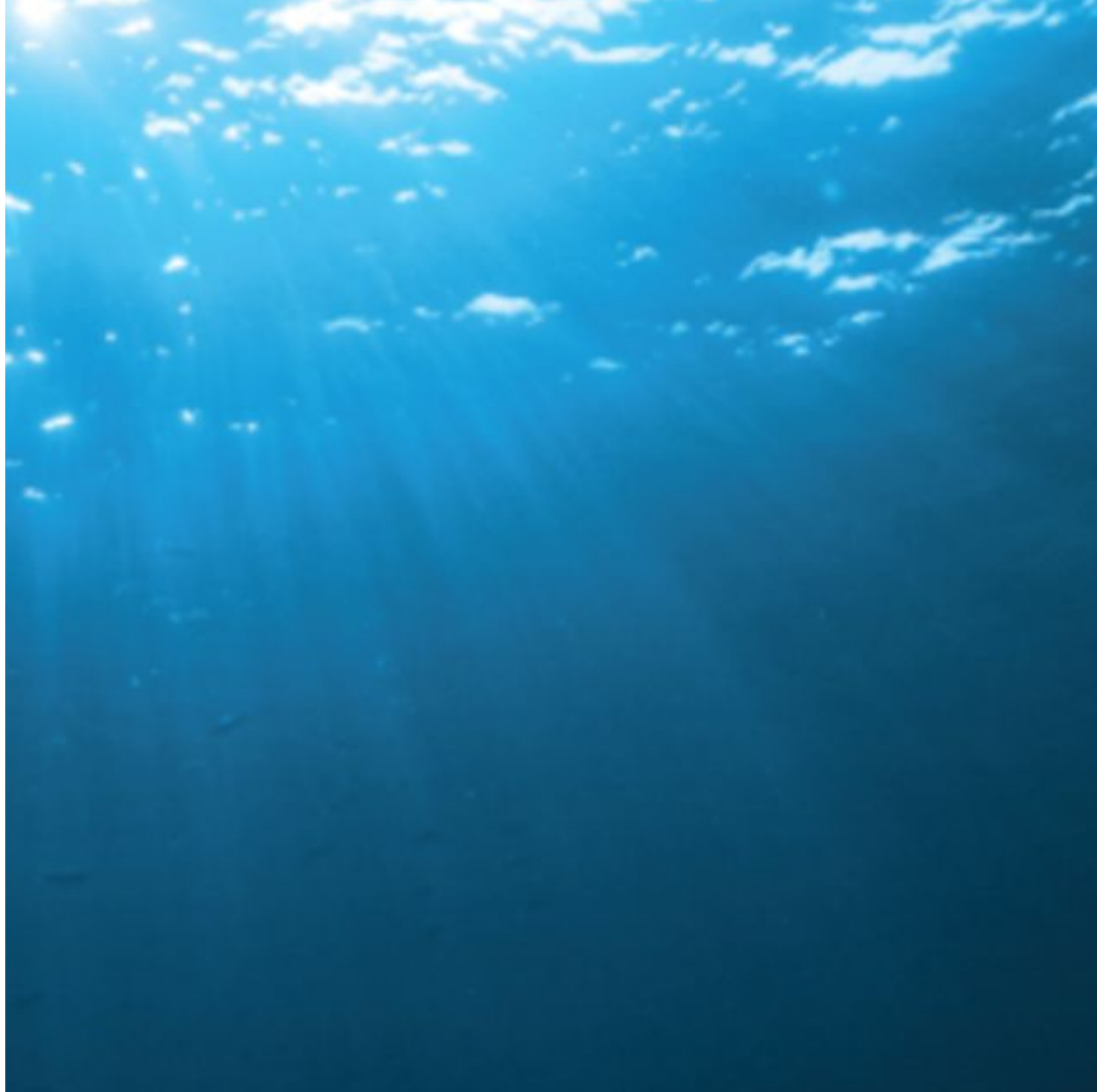
Introduction to Tethys & SEER

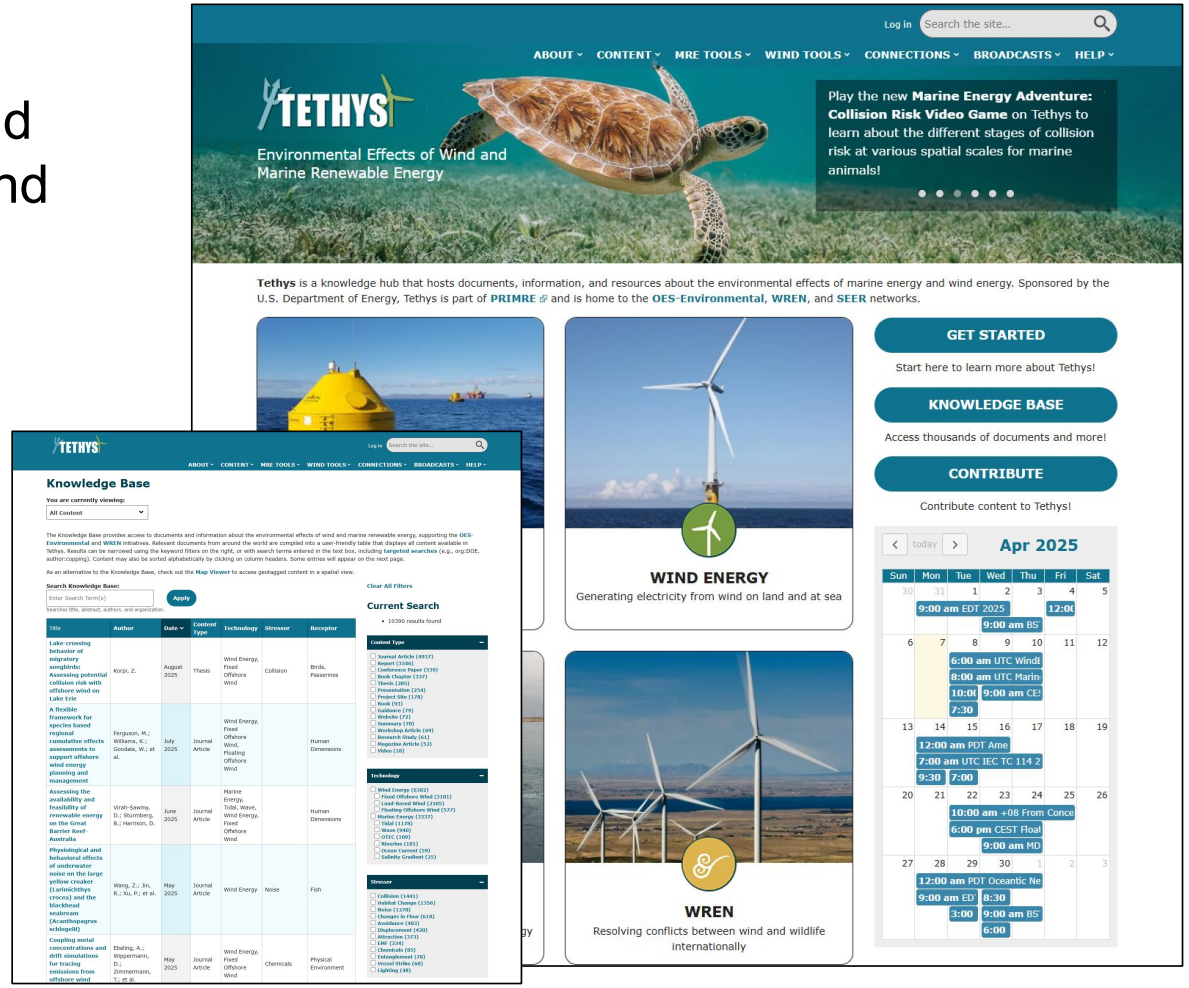
Hayley Farr
Pacific Northwest National Laboratory

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



https://tethys.pnnl.gov

Wind Energy-Environmental Research & Engagement Network (WREN)

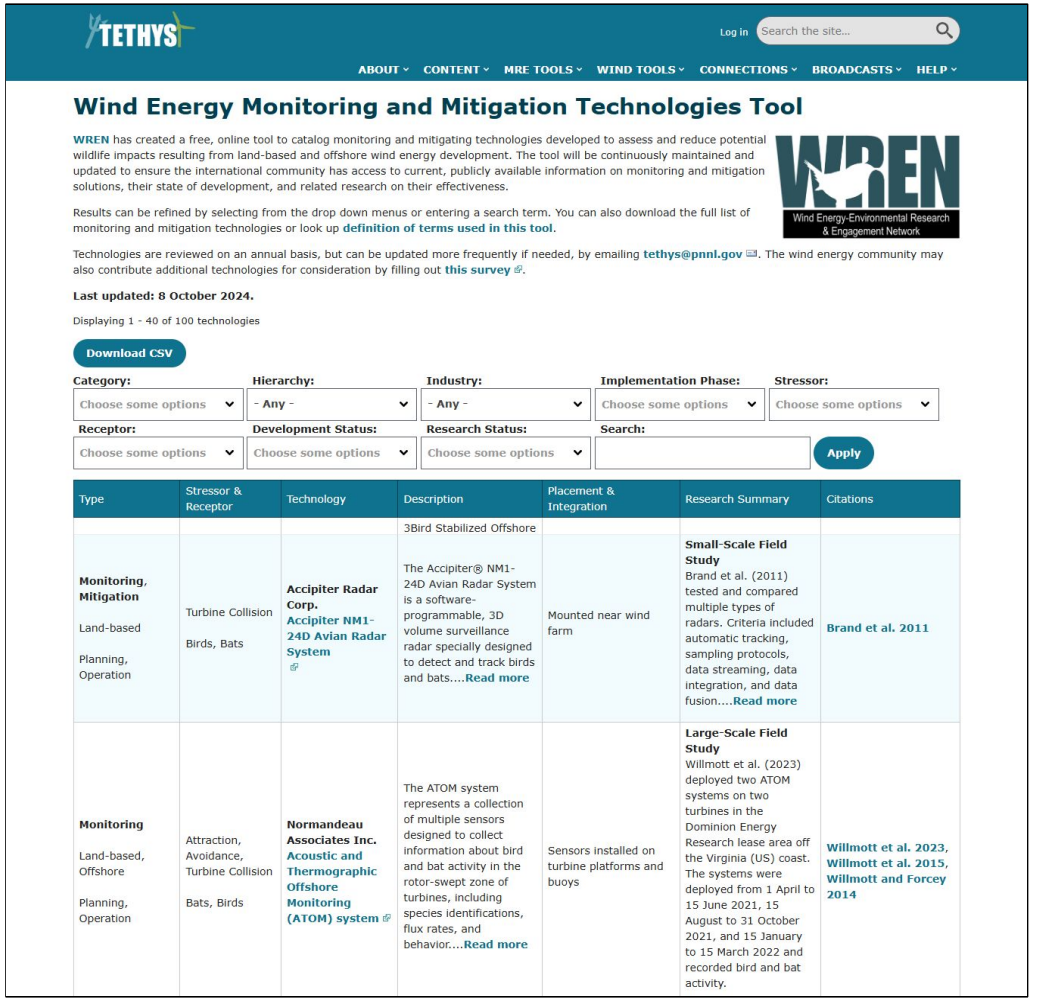
- IEA Wind Task that shares information and resources on the environmental effects on both land-based and offshore wind energy
- Several countries collaborate to advance wind-wildlife research around the world by:
  - Connecting international subject matter experts
  - Publishing papers and short science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

WREN
Wind Energy-Environmental Research & Engagement Network

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

Wind Energy Monitoring & Mitigation Technologies Tool

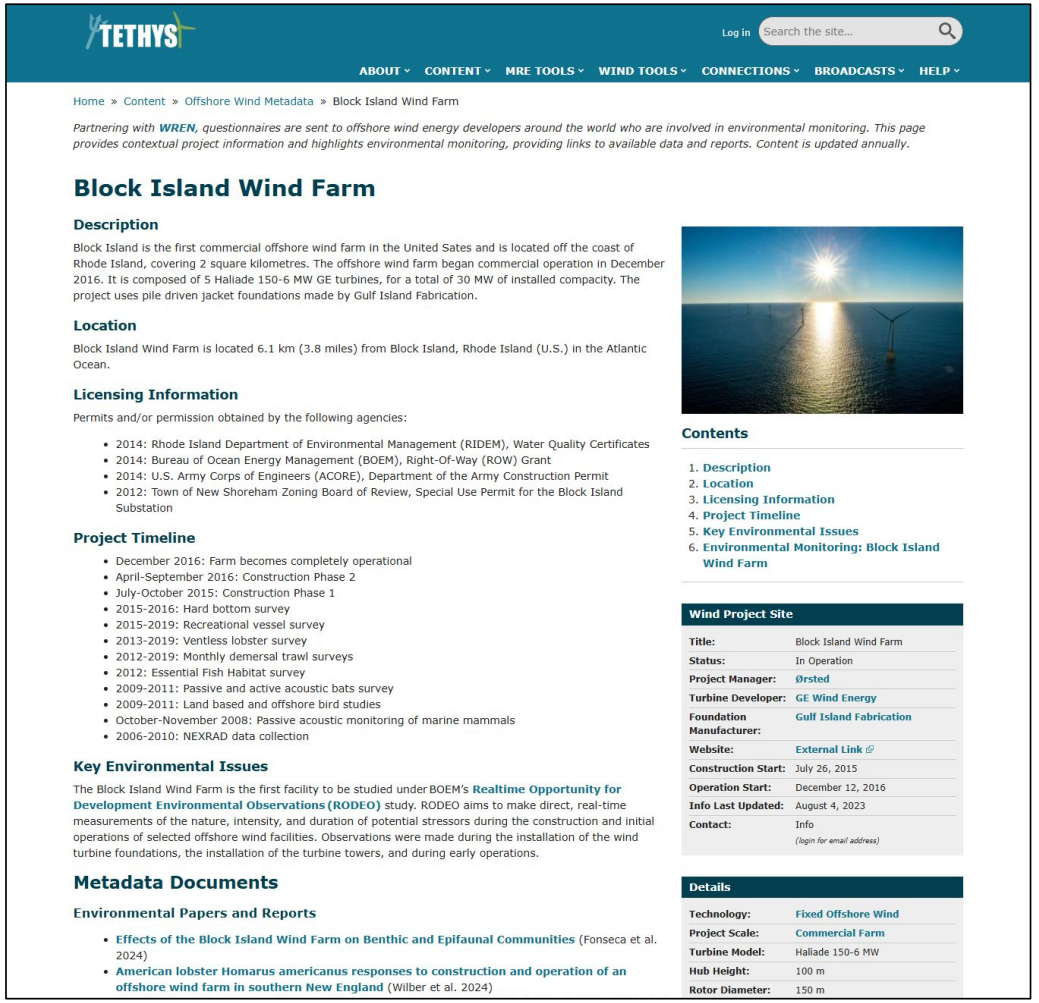
- Catalogs a wide variety of monitoring and mitigation technologies for assessing and reducing potential wind-wildlife effects:
  - Acoustic sensors
  - Cameras
  - Deterrents
  - Tags
- Information on each technologies' development status and links to related validation studies on their effectiveness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



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

Offshore Wind Environmental Monitoring Metadata

- Collection of information on offshore wind farms around the world, including planned, under construction, and operational projects
- Details on site conditions, project timeline, licensing information, technical features, etc.
- Summarizes environmental monitoring conducted and links to related reports, studies, and publicly available data
- Drafted by the Tethys team and reviewed annually by developers

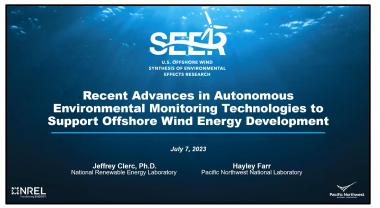


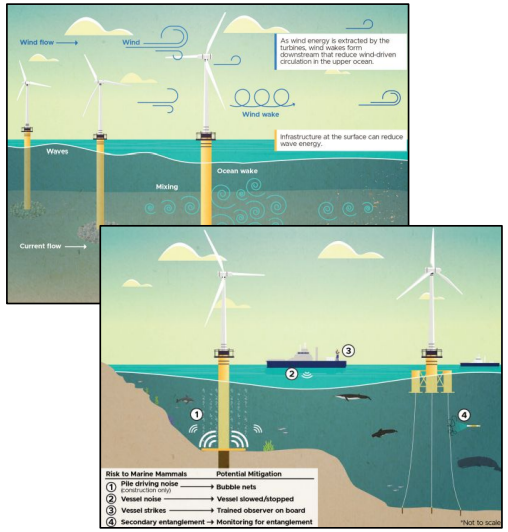
https://tethys.pnnl.gov/offshore-wind-metadata

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



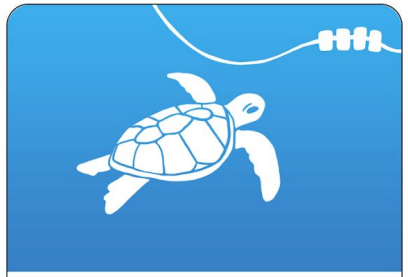


https://tethys.pnnl.gov/seer

SEER Research Briefs

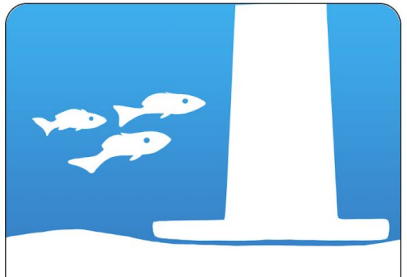
Underwater Noise Effects on Marine Life

Bat and Bird Interactions with Offshore Wind Energy



Risk to Marine Life from Marine Debris & Floating Cable Systems

Benthic Disturbance from Foundations, Anchors, & Cables



Introduction of New Structures: Effects on Fish Ecology

Presence of Vessels: Effects of Vessel Collision on Marine Life

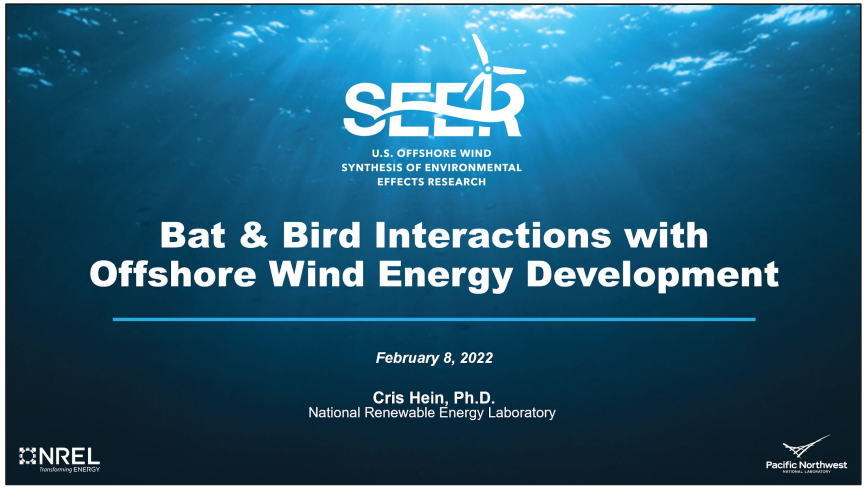
Electromagnetic Field (EMF) Effects on Marine Life

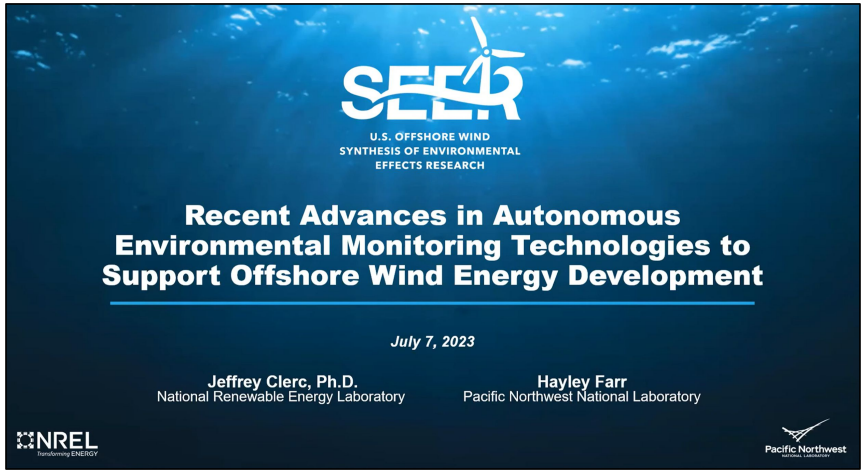
Compilation of SEER Educational Research Briefs

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





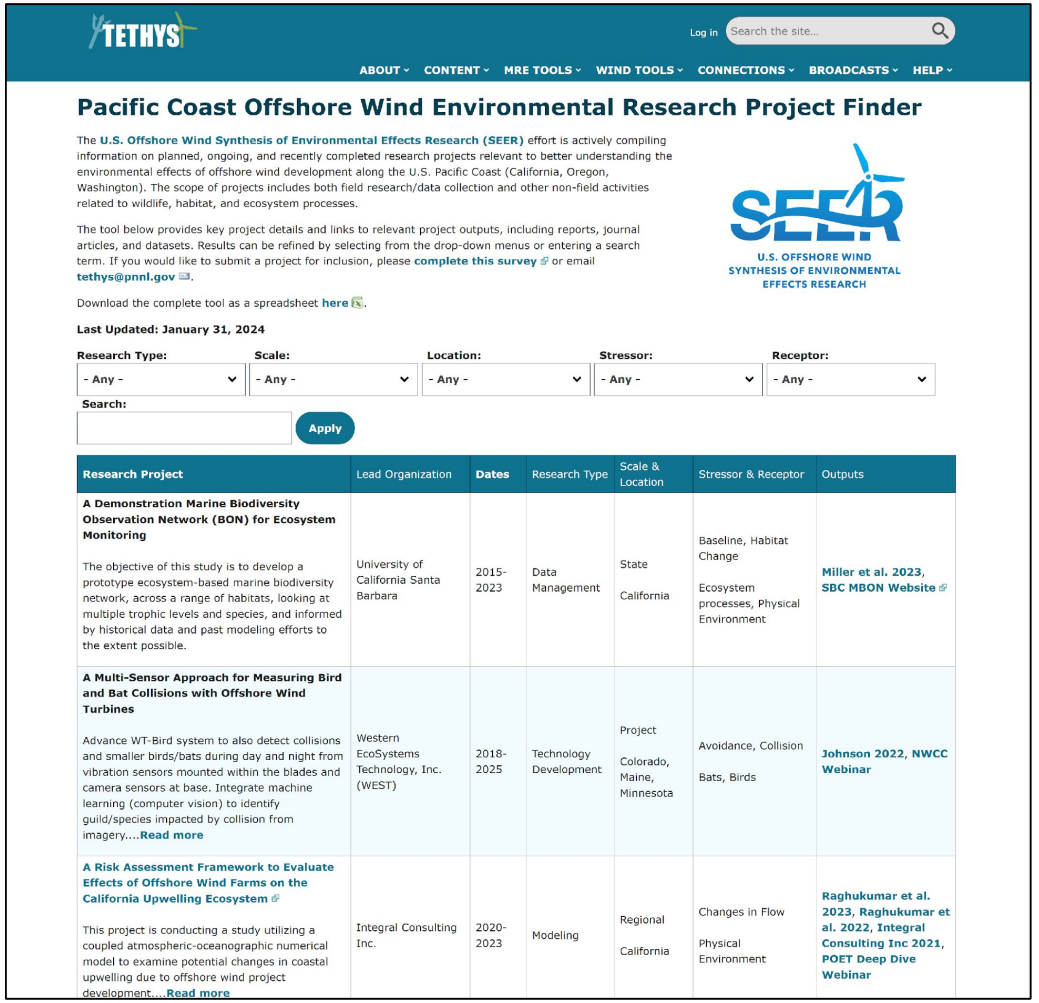
https://tethys.pnnl.gov/seer

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

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



TETHYS

Log in | Search the site...

ABOUT | CONTENT | MRE TOOLS | WIND TOOLS | CONNECTIONS | BROADCASTS | HELP

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**.

SEER
U.S. OFFSHORE WIND SYNTHESIS OF ENVIRONMENTAL EFFECTS RESEARCH

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
A Demonstration Marine Biodiversity Observation Network (BON) for Ecosystem Monitoring 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	**Miller et al. 2023, SBC MBON Website**
A Multi-Sensor Approach for Measuring Bird and Bat Collisions with Offshore Wind Turbines 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....**Read more**	Western EcoSystems Technology, Inc. (WEST)	2018-2025	Technology Development	Project Colorado, Maine, Minnesota	Avoidance, Collision Bats, Birds	**Johnson 2022, NWCC Webinar**
A Risk Assessment Framework to Evaluate Effects of Offshore Wind Farms on the California Upwelling Ecosystem 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....**Read more**	Integral Consulting Inc.	2020-2023	Modeling	Regional California	Changes in Flow Physical Environment	**Raghukumar et al. 2023, Raghukumar et al. 2022, Integral Consulting Inc 2021, POET Deep Dive Webinar**

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

Contact Information

Visit Tethys:

https://tethys.pnnl.gov

Email us to contribute:

- tethys@pnnl.gov
- hayley.farr@pnnl.gov

https://tethys.pnnl.gov

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

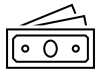
Research Needs

- 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

ROSA

FishFORWRD | Fish and Fi… …atabase

increas…
av…
create a comm…

Research Proje…
- Research pro… state agencie…
- Implemented … Plans

Research Needs
- Individual rese… published docu… states agencies…

Research Gaps Ar…

…ies
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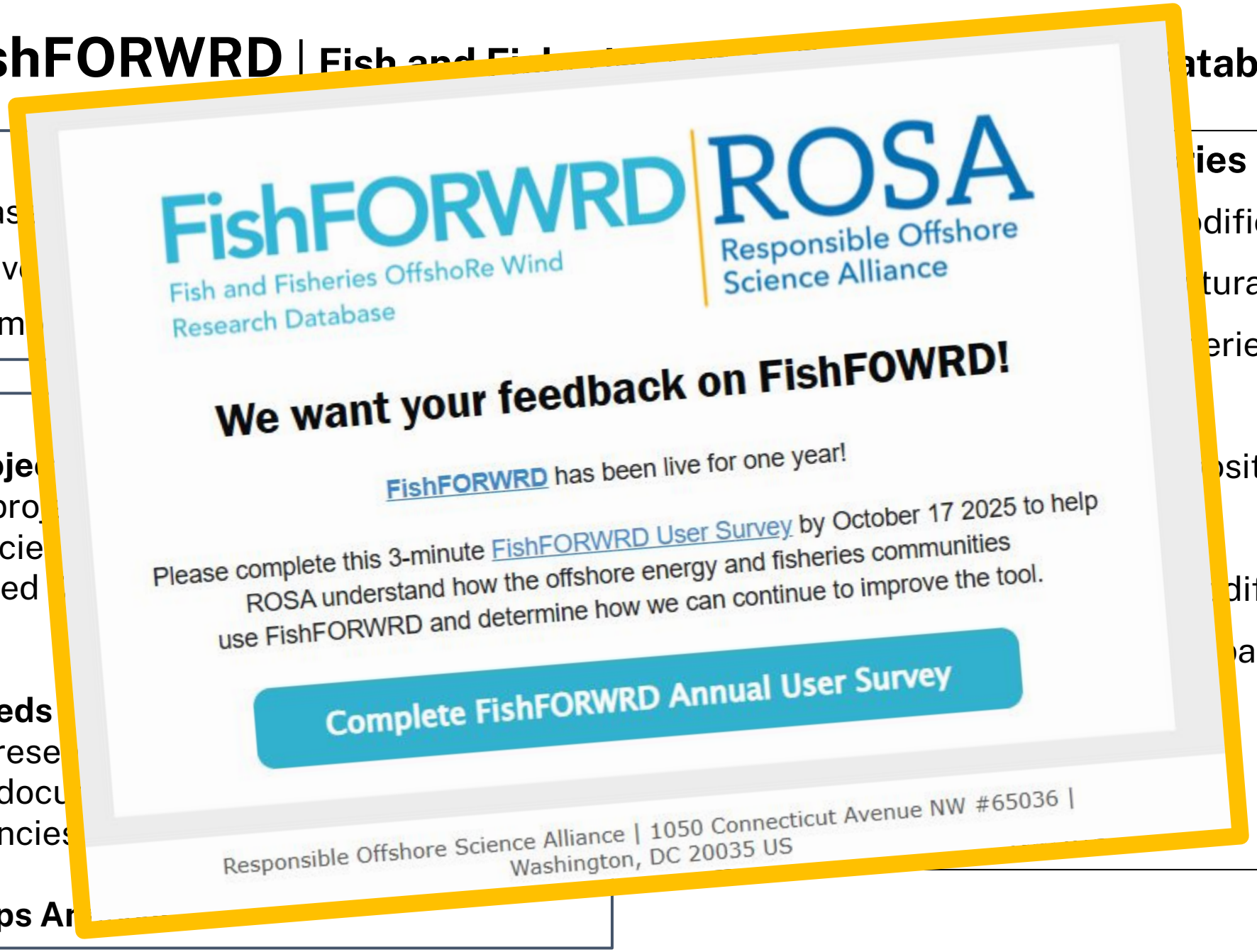
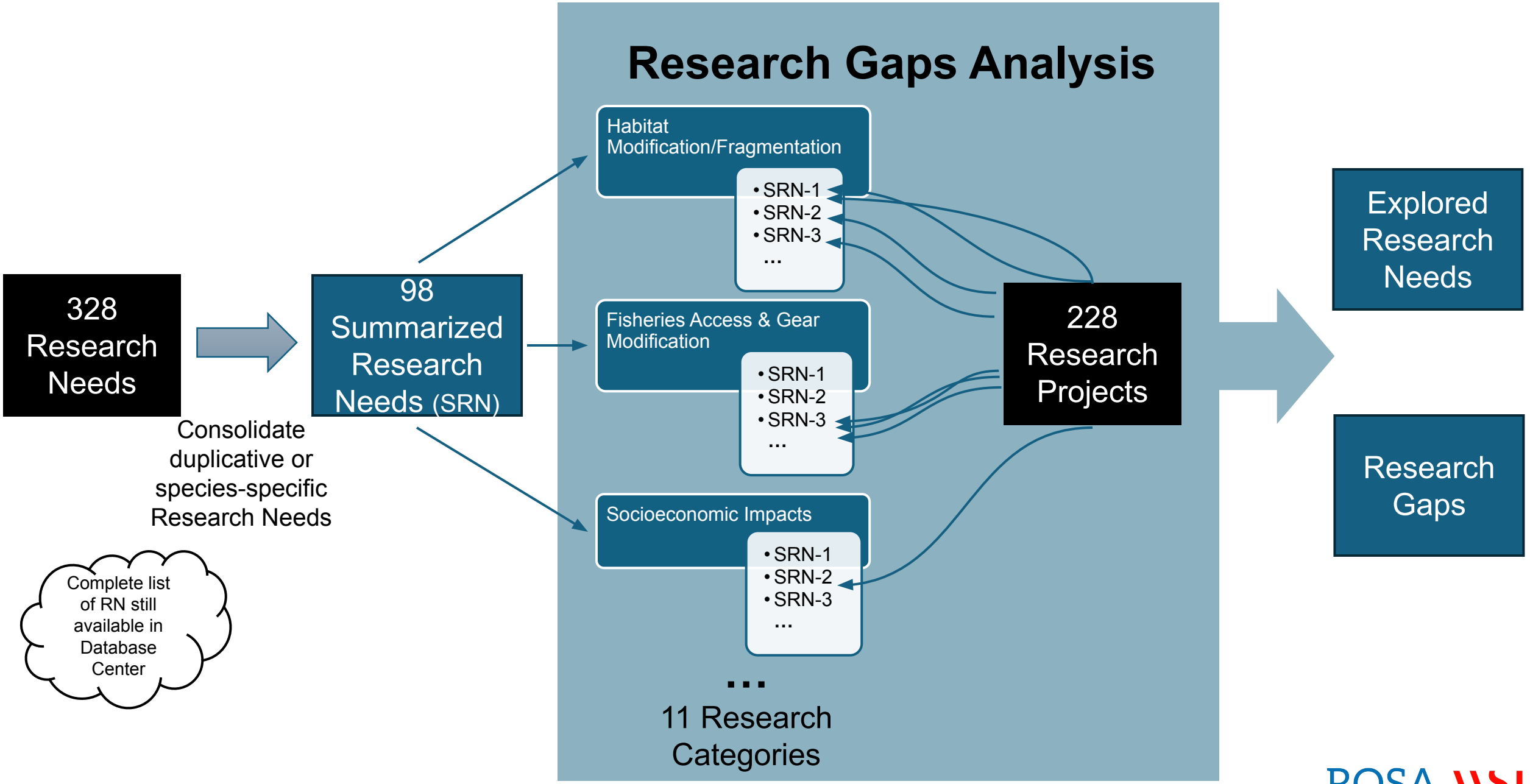


ROSA


328 Research Needs
Consolidate duplicative or species-specific Research Needs
Complete list of RN still available in Database Center
98 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
228 Research Projects
Explored Research Needs
Research Gaps

PEER REVIEW
Summer 2025

328 Research Needs

Consolidate duplicative or species-specific Research Needs

Complete list of RN still available in Database Center

98 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
- ...

...

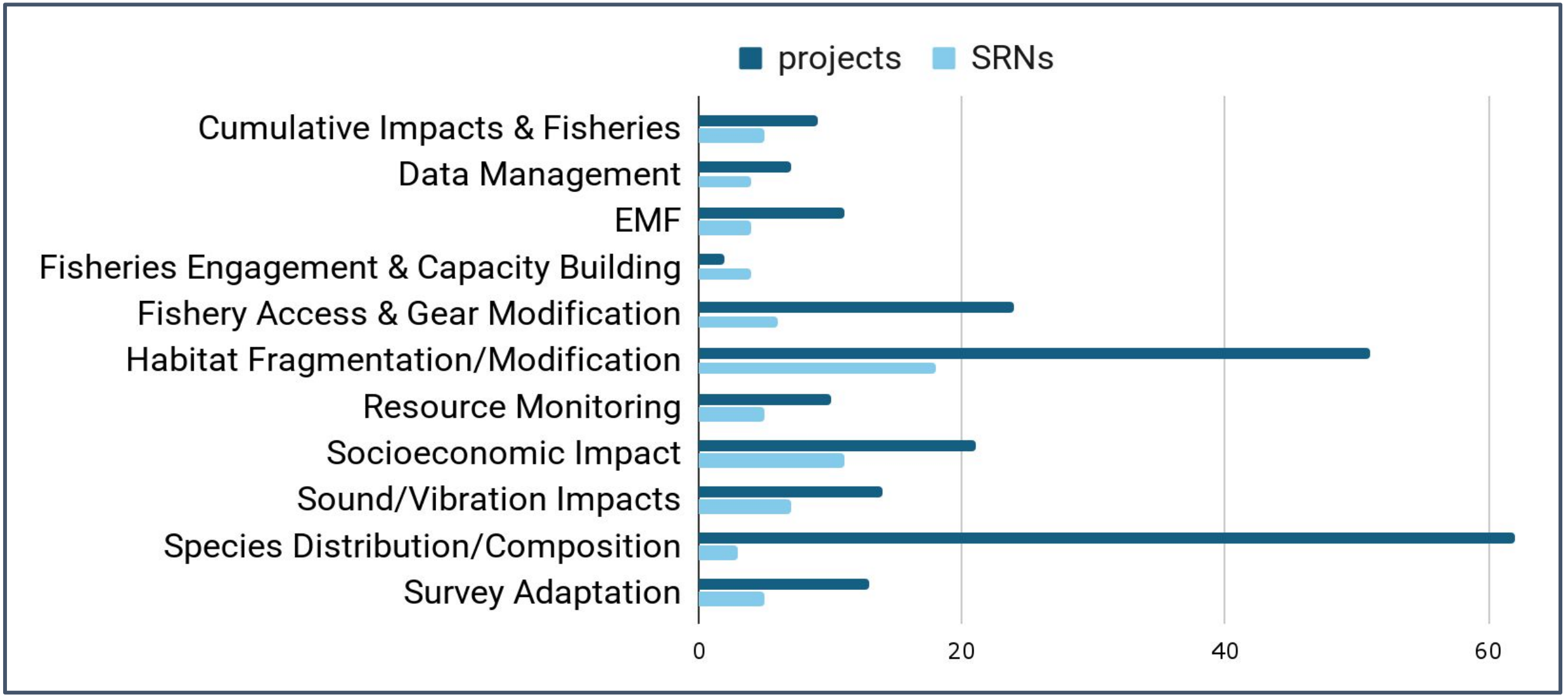
11 Research Categories

228 Research Projects

Explored Research Needs

Research Gaps

ROSA wsp



72

summarized research needs

13

new needs

12

research gaps

ROSA

Examples of Summarized Research Needs

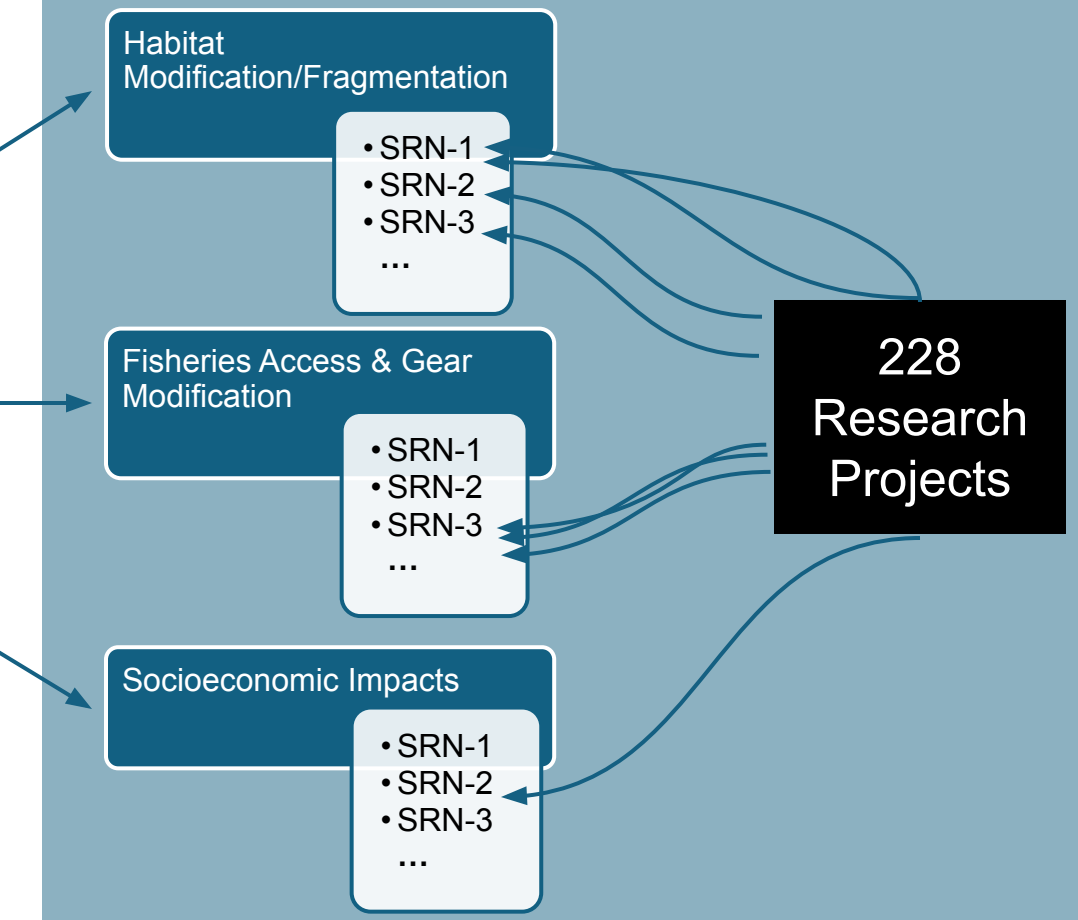
Research Category	SRN ID	Summarized Research Need	# of Projects Addressing
Cumulative Impacts & Fisheries Management Implications	SRN-30	Cumulative Impact Assessment Framework/Guidance	1
	SRN-31	Cumulative Impact Assessments	6
	SRN-32	Alignment of policies across ocean sectors relative to offshore wind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

ROSA

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



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11 Research Categories

Explored Research Needs

Projects Addressing Each Need

Locatio n

Methodology

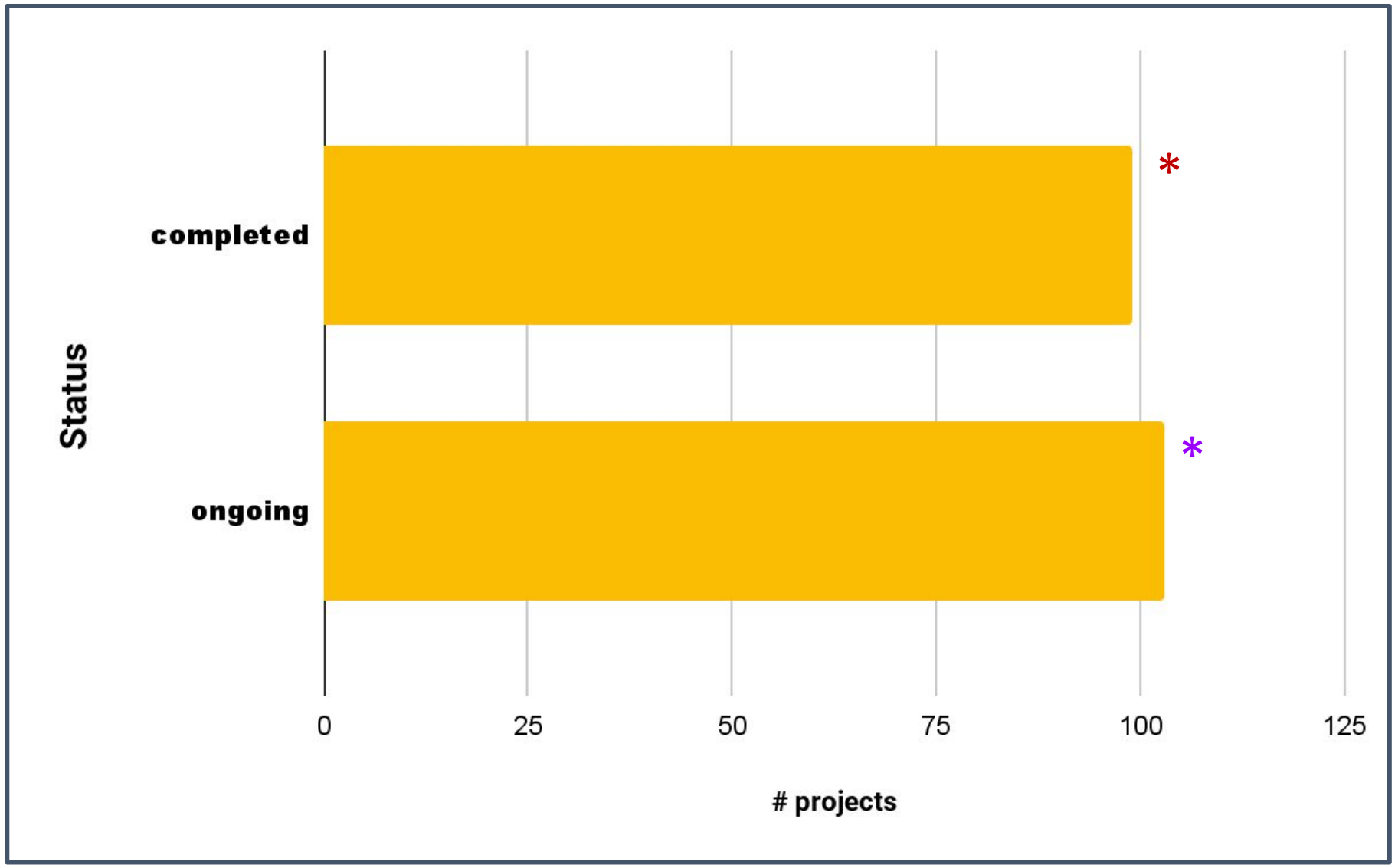
Receptor

GAPS WITHIN EXPLORED NEEDS

Research Gaps

ROSA

Research Projects (not including developer FMP)

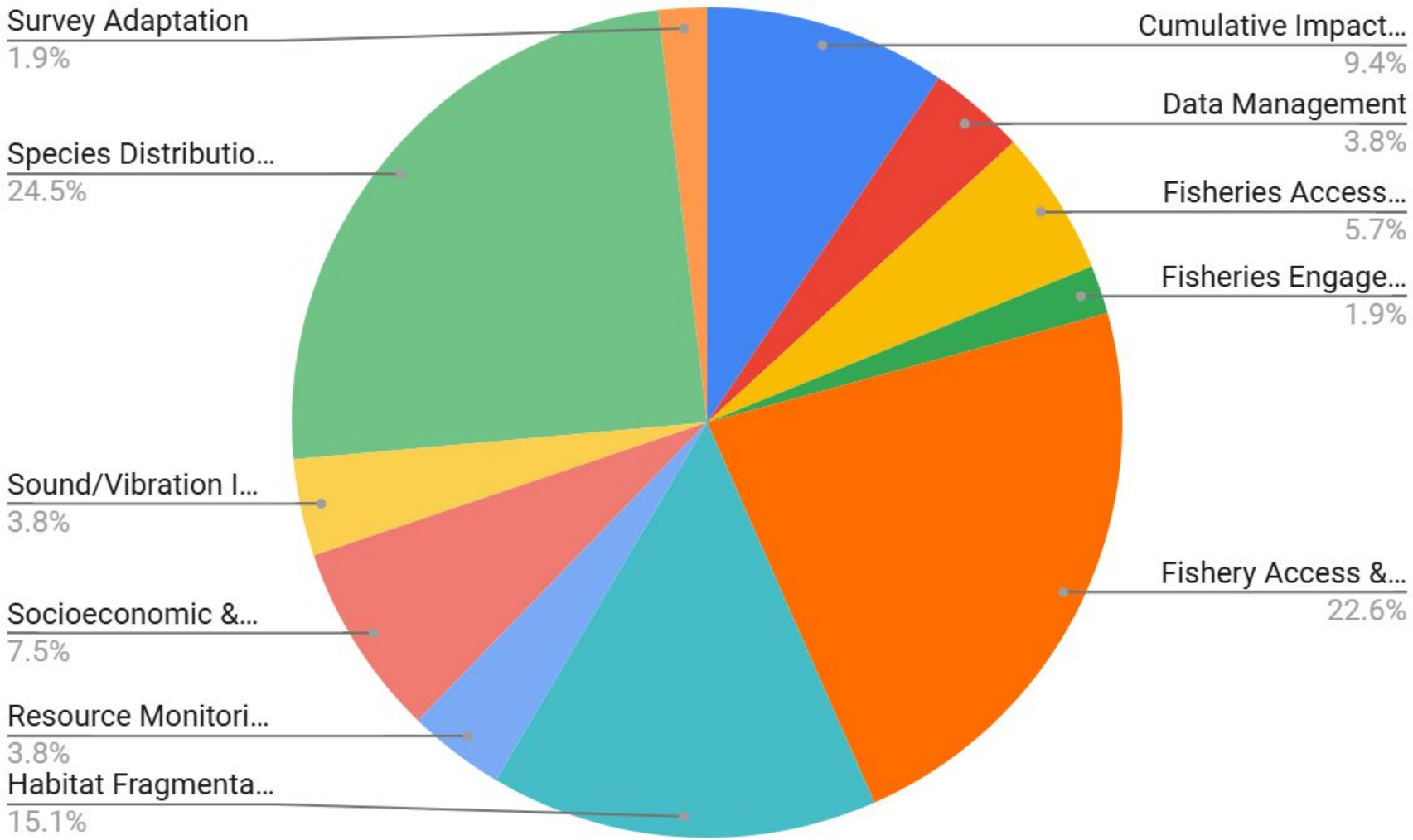


*some projects may still be ongoing/ unpublished/affected by administration change

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

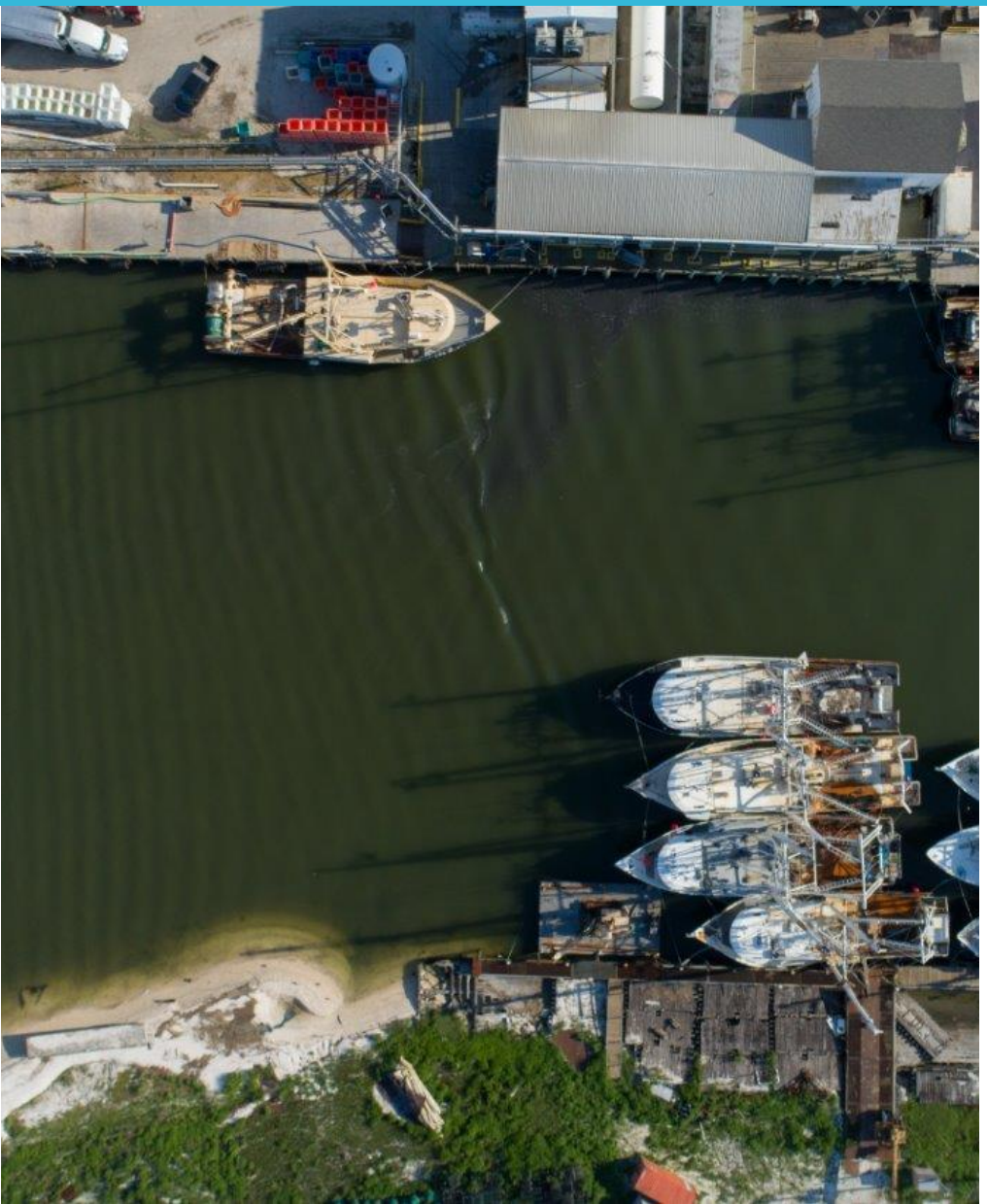
ROSA

Breadth of Ongoing Projects



ROSA

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

ROSA

Next Steps

FishFORWRD
Fish and Fisheries OffshoRe Wind Research Database

ROSA
Responsible Offshore Science Alliance

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

DRAFT

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

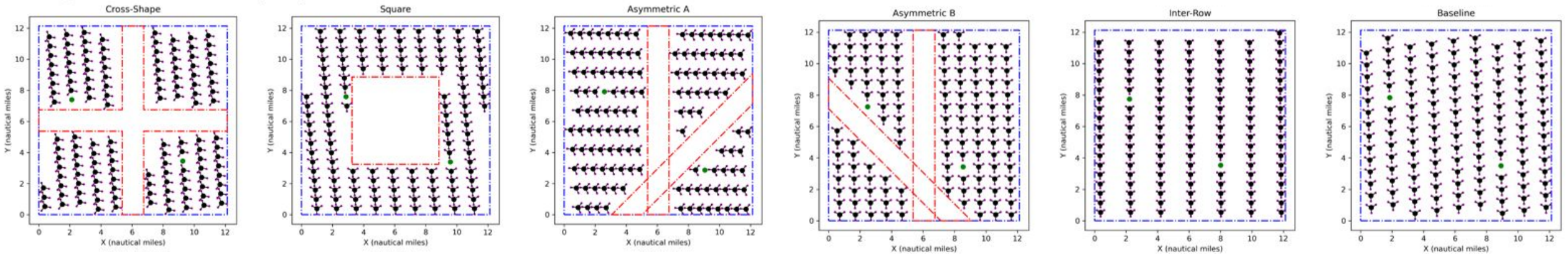
- San Antonio, TX - Aug. 11-14
- ROSA co-convened a session on OSW
  - 5th consecutive year of co-convening
  - Partnered with Tetra Tech, NYSERDA & others
  - 14 presentations plus posters & discussion
  - Tricia presented on research gaps
  - Well-attended with 40+ attendees
  - Currently seeking permissions 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

ROSA

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.

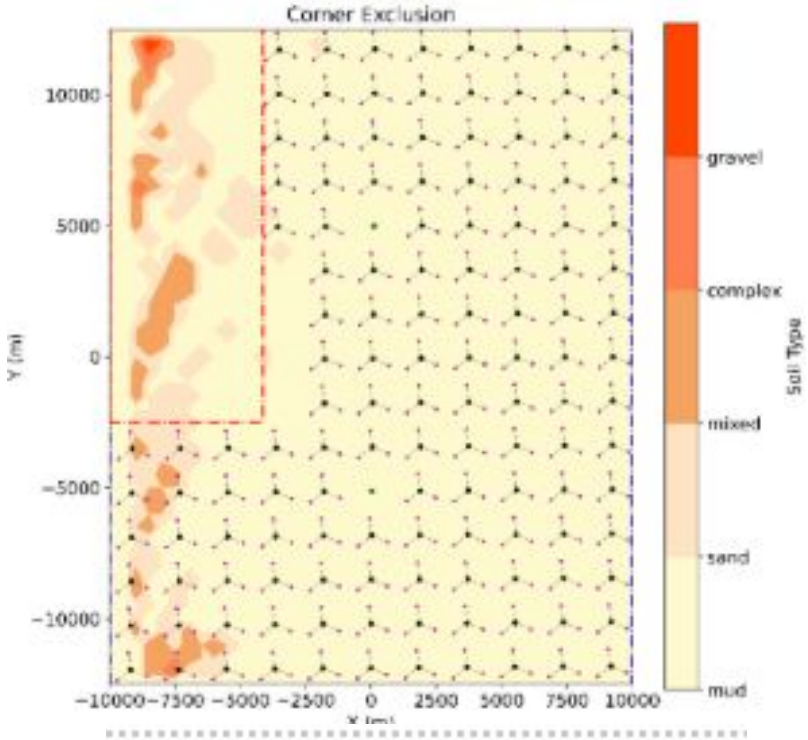
Project Progress

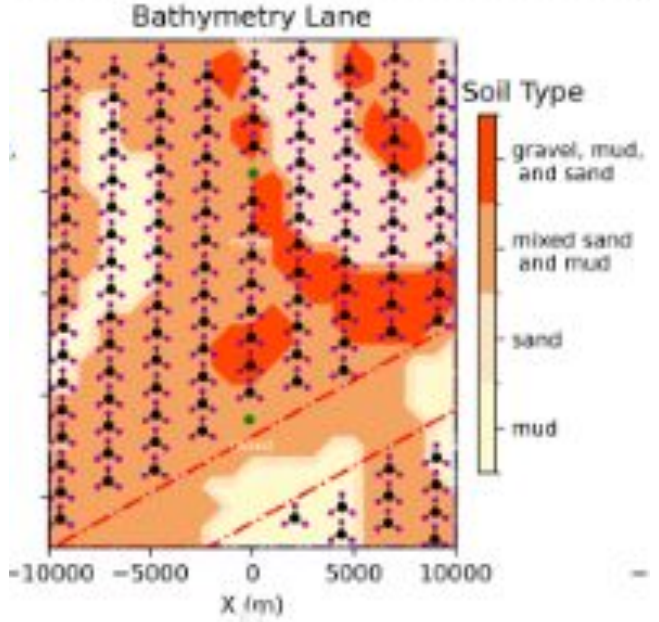
Gulf of Maine (Fixed Gear Case Study):

- 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.

ROSA

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

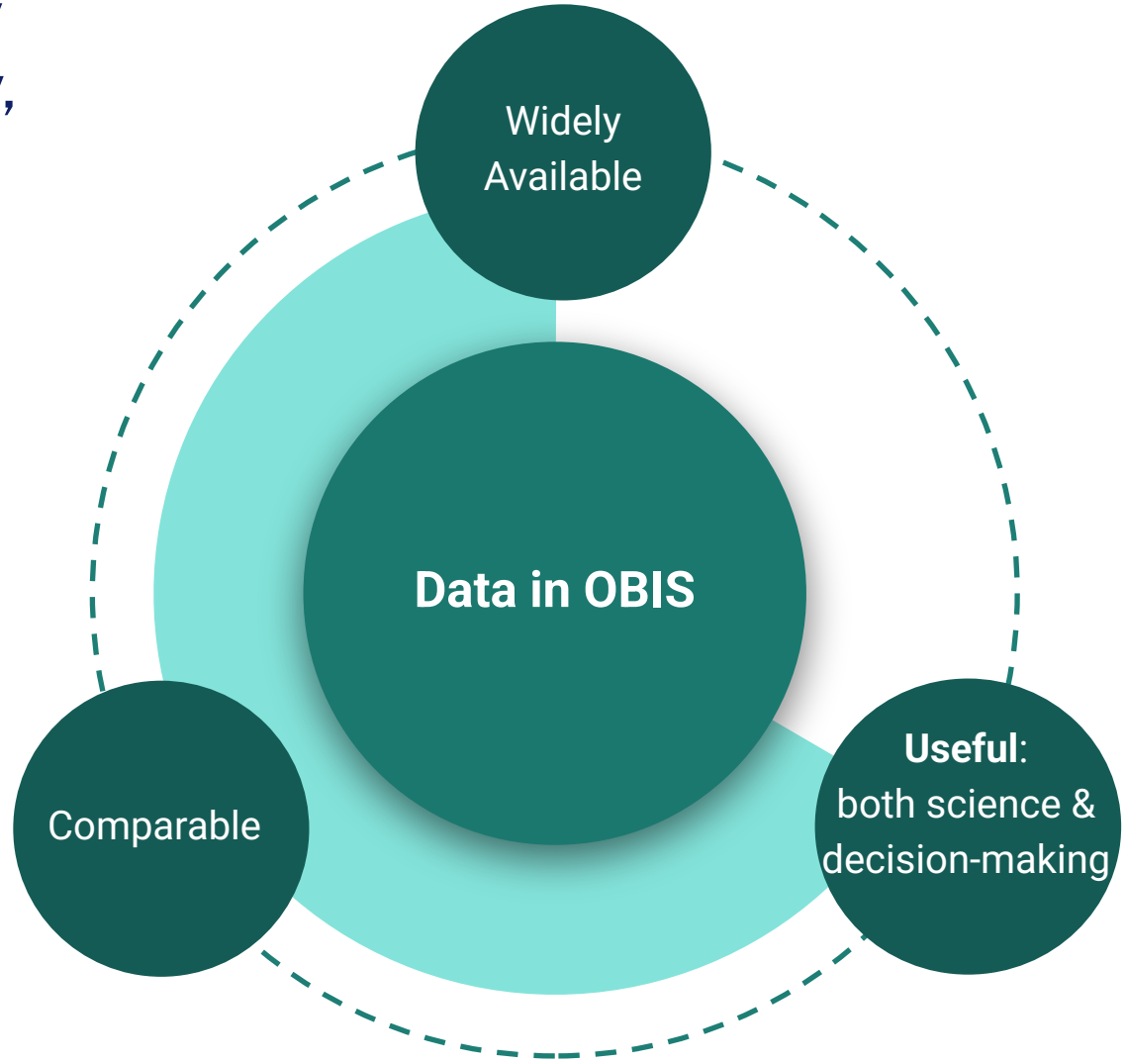
- Darwin Core (DwC) - Flexible data structure based on occurrence of a species in a particular place & time
  - Current databases:
    - Unique to researchers
    - Often event-based (Expt-trip-tow-catch)
    - Can be mapped into DwC
  - DwC meets widely-accepted standards
  - Opportunities to support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

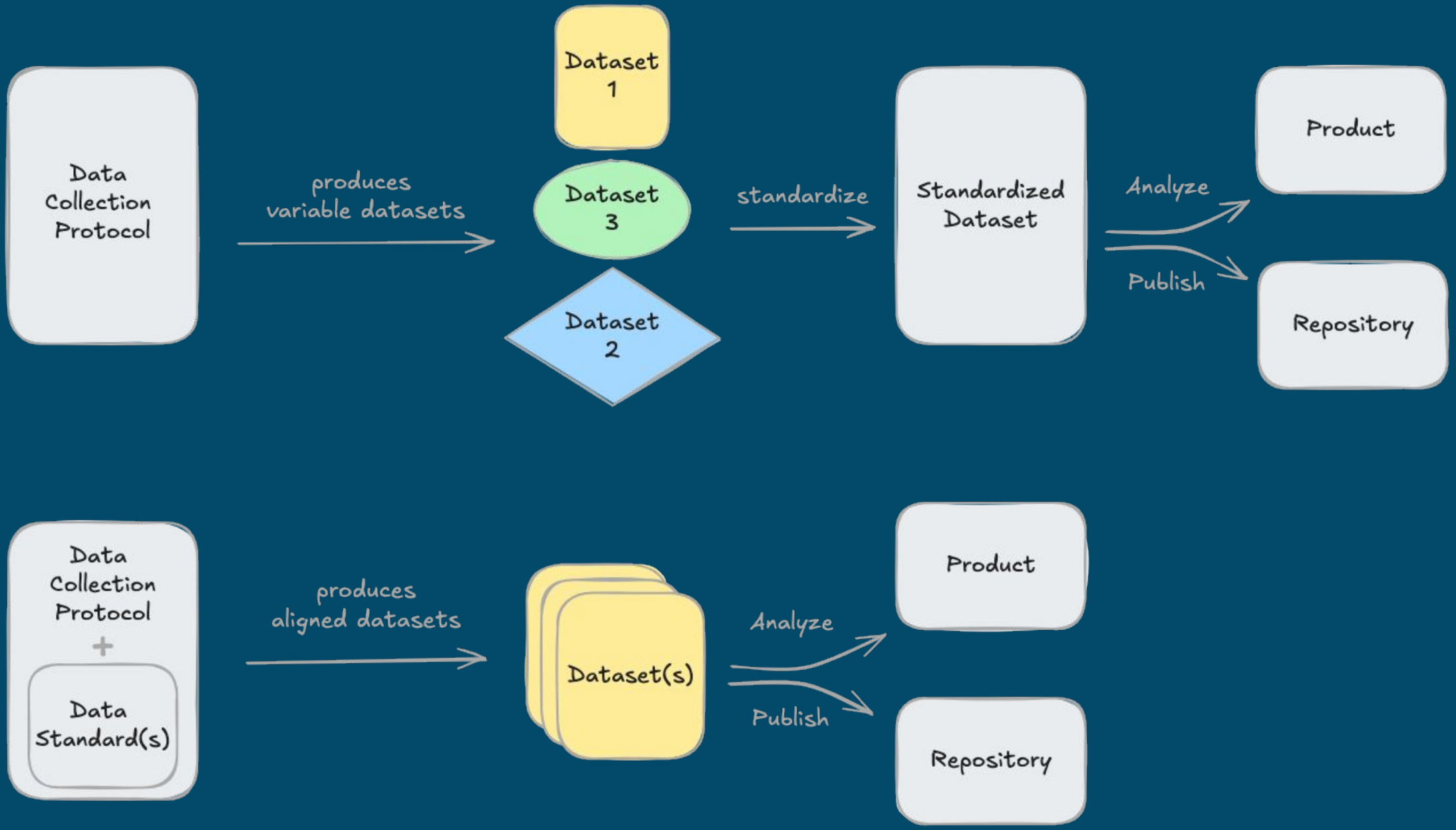
Instead of spending 90% of your time cleaning data and 10% of your time analyzing and interpreting it, data standards allow you to spend 10% of your time managing/clearing data and 90% of your time analyzing and interpreting. - T. Stippel

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*

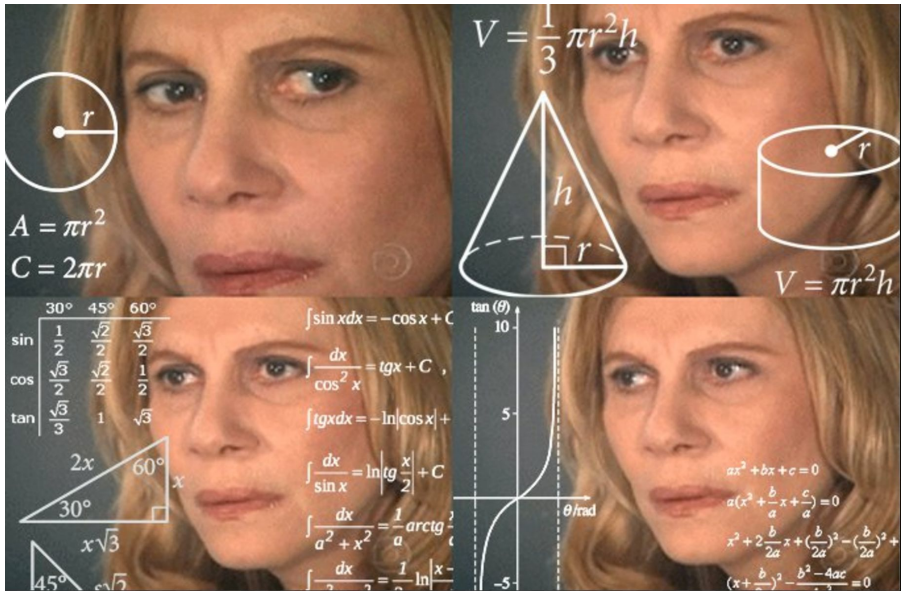
OBIS is global gateway on ocean biogeography, biodiversity, and information to address coastal & world ocean concerns




Data Collection Protocol
produces variable datasets
Dataset 1
Dataset 3
Dataset 2
standardize
Standardized Dataset
Analyze
Publish
Product
Repository
Data Collection Protocol
+
Data Standard(s)
produces aligned datasets
Dataset(s)
Analyze
Publish
Product
Repository

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/4gj4AFf

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)

Action Items, Next Steps, and Other Business

Action Items, Next Steps, and Other Business

- 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

ROSA

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