



Agenda



1:00pm Welcome, Introductions, Agenda Review

1:10pm ROSA Updates – ROSA Staff

1:30pm Partner Updates

1:45pm Northeast Trawl Advisory Panel – Mike Pol, ROSA

2:20pm Preview of Results of Monitoring Focus Groups - Reneé Reilly, ROSA

2:45pm Construction and Post-Construction Monitoring – *Crista Bank*,

Vineyard Wind 1

3:05pm Fish FORWRD update - Mike Pol, ROSA

3:25pm Action Items, Next Steps, and Other Business

3:30pm Adjourn





New Staff



RESEARCH PROJECT MANAGER

Tricia Perez



Mindy Hamlin





New Board Members







Acoustic Telemetry Fish and Fisheries Committee



Goals:

- Update acoustic telemetry guidance in the <u>Offshore Wind</u>
 <u>Project Monitoring Framework and Guidelines</u>: Table 1
 (Advantages/disadvantages of sampling gears), Section 2.6
 Data Sharing and Access and elsewhere as needed
- 2. Work on identified issues from Table 1: Definition of metrics, data sharing, potential for site conflicts, tradeoffs for equipment expense and sample size
- 3. Contribute to updates on research efforts for Fish FORWRD
- 4. Work on other issues

Met on March 25th, made progress on Table 1. Planning on monthly meetings

Regional Research Program & Coordination

OSW & Fisheries Funder Coordination Meeting

- Federal, state, nonprofit competitive solicitations
 Developer Funded Projects

RFP Development Plan - due July

- Equinor Empire Wind 1 project selected in NY4 Solicitation requiring \$5,000/MW for fisheries and offshore wind research
 Research Areas Selection Process
- - FishFORWRD
 - Advisory CouncilRFI?
- RFP & Project Management Process

Engagement for Research Topic Areas

o expect to engage advisory council this summer

RFP Release





Outline of RFP Development Plan (to date)

Introduction

ROSA RFP Development Process

- Steering Committee
- Coordination
- Select the Research Topic Areas
 - FishFORWRD
- RFP Development Process
 - Format, Eligibility, Submission, Etc.
- Review Process
 - Concept Papers, Full Applications, Selection Criteria
- Communicate and Promote RFP
- Consider Technology Needs for RFP
- Project Administration and Management of Awarded Projects
 - Process for Data Management from projects
 - Reporting
- Legal Review
- Utility Moving Forward

Equinor Specifics

- Timeline
- Steering committee
- Coordination with RWSC
- RFP
 - Objective
- Funding Distribution

References

Appendices

- Members of Coordination Group
- · RFP Template
- Budget Template
- COI Template
- Others?



5-year Roadmap: Strategic Goals & Objectives



 Administer Regional OSW Fisheries Research and Monitoring

 Facilitate Assessment of Regional & Cumulative Impacts

 Build Coordination through Engagement

Looking Ahead: Executing our Strategic Plan



Regional Fisheries Research Programs

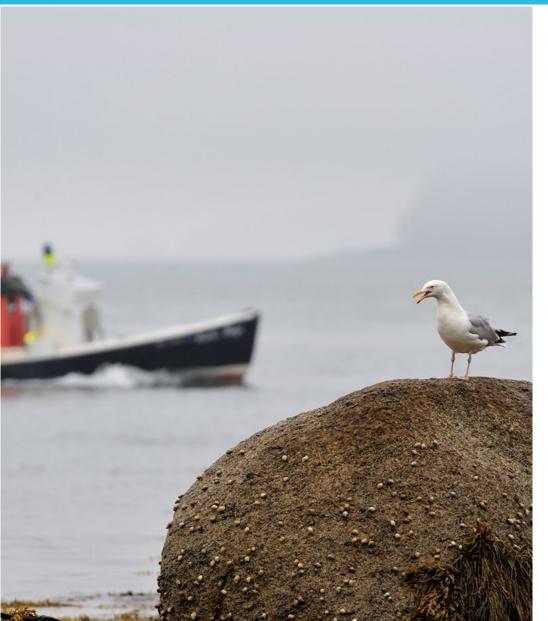
Funds created through PPAs

Regional Funder Coordination

Alignment of Fisheries Monitoring

- Development of Regional Monitoring Plan(s) for Fish & Fisheries
- Tools requiring larger-scale coordination, e.g., acoustic telemetry
- Build upon existing plans, create synergies & efficiencies

Looking Ahead: Executing our Strategic Plan



Data Standardization & Management

 Method-specific standards, e.g. Acoustic Telemetry

Updating Monitoring Guidance

NOAA Survey Mitigation Strategy

Developer/NMFS Survey
 Mitigation Plan Coordination
 (Recent Condition)





State of the Science Workshop on Offshore Wind Energy, Wildlife, and Fisheries

Outcome – build on existing knowledge, collaborations, engage stakeholders, and to help develop a research agenda of key studies that could be conducted in the next 3-5 years

Theme:

- 2018: Understanding the current state of the science on wildlife and offshore wind energy development.
- 2020: Assessing the state of the knowledge of offshore wind development's cumulative effects on wildlife and ecosystems.
- 2022: Building on existing knowledge and emerging collaborations.
- 2024: Taking an Ecosystem Approach: Integrating Offshore Wind,

Wildlife, and Fisheries

https://www.nyetwg.com/2024-workshop

July 16 – 19, 2024 at Stony Brook University













Request for Proposals and Next Steps

February 2024: NYSERDA issued Request for Proposals (RFP) 5554 Regional Fund Administrator for an Offshore Wind Fisheries Mitigation Fund on behalf of multi-stakeholder effort

Proposals due March 26, 2024 by 3:00 p.m. ET

See RFP 5554 details here: https://www.nyserda.ny.gov/Funding-Opportunities/Closed-Funding-Opportunities/2024

Early Spring 2024: Identify and Convene Design Oversight Committee

Late Spring 2024: Select and contract for design and development phase

Early Summer 2024: Commence Regional Fund design and development phase

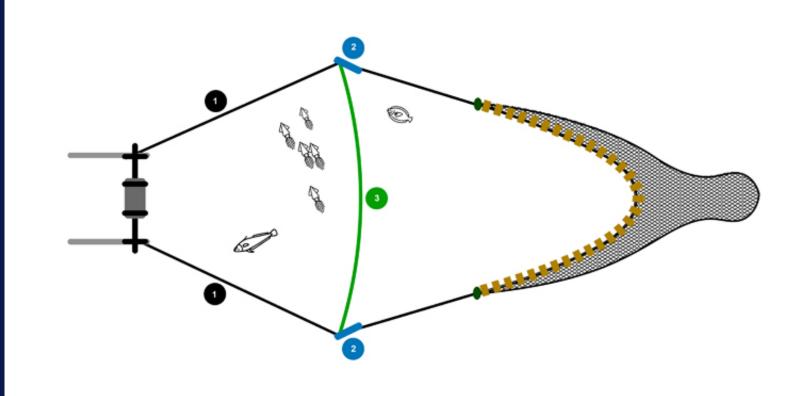
For more information on the Regional Fund Administrator and BOEM efforts, visit:

- https://offshorewindpower.org/fisheries-mitigation-project
- https://www.boem.gov/renewable-energy/request-information-reducing-or-avoiding-impacts-offshore-wind-energy-fisheries





Northeast Trawl Advisory Panel – Restrictor Rope



NTAP 2022 Restrictor Rope Experiment Findings

ROSA Advisory Council 3/29/2024



Contact: Andrew (Andy) Jones
Northeast Fisheries Science Center's Cooperative
Research Branch
andrew.jones@noaa.gov



Many efforts coordinating and performing field work

- Captain, crew from F/V Darana R
 - Captain James Ruhle
- VIMS staff
- RI DEM staff
- ROSA staff
- NEFSC staff
- NTAP













Northeast Trawl Advisory Panel (NTAP)



- A joint council advisory panel with expert stakeholders
- Identify concerns about regional research survey performance and data, to identify methods to address or mitigate these concerns, and to promote mutual understanding and acceptance of the results of this work among their peers and in the broader community
- History of experiments related to gear efficiency
- Recent interest in impacts of wind developments on NEFSC BTS



Ecosystem and Habitat Science and Data

Scientific and Statistical Committee

Research Priorities Recreational Fishing Data (MRIP) Stock Assessments

Northeast Trawl Advisory Panel

Northeast Trawl Advisory Panel (NTAP)

The Northeast Trawl Advisory Panel (NTAP) is a joint advisory panel of the Mid-Atlantic and New England Fishery Management Councils. It is composed of Council members, fishing industry, academic, and government and non-government fisheries experts who provide advice and direction on the conduct of trawl research.

The NTAP was established to bring commercial fishing, fisheries science, and fishery management professionals in the northeastern US together to identify concerns about regional research survey performance and data, to identify methods to address or mitigate these concerns, and to promote mutual understanding and acceptance of the results of this work among their peers and in the broader community.

- Charter for Northeast U.S. Trawl Advisory Panel, revised 7/28/21
- NTAP Member Roster, updated 1/23/2024
- NTAP Operational Manual and Orientation Document, created 7/6/23

https://www.mafmc.org/ntap

Fisheries Research 259 (2023) 106565 Contents lists available at ScienceDirect



Fisheries Research

journal homepage: www.elsevier.com/locate/fishres

Full length article

Estimation of survey efficiency and biomass for commercially important species from industry-based paired gear experiments

Timothy J. Miller 8, , David E. Richardson , Philip J. Politis , Christopher D. Roebuck , John P. Manderson d, 1, Michael H. Martin d, 2, Andrew W. Jones

- ^a Northeast Fisheries Science Center, Woods Hole Laboratory, 166 Water Street, Woods Hole, MA 02543, USA b Northeast Fisheries Science Center, Narragonsett Laboratory, 28 Tarawell Drive, Narragonsett, RI 02882, USA
 c Fishing Vessel Karen Elizabeth, Narragonsett, RI 02882, USA
- Northeast Fisheries Science Center, James J. Howard Marine Sciences Laboratory, 74 Morruder Road, Hishlands, NJ 07732, US



Fisheries Research 244 (2021) 106106 Contents lists available at ScienceDirect

Fisheries Research

Experimental assessment of the effect of net wing spread on relative catch efficiency of four flatfishes by a four seam bottom trawl

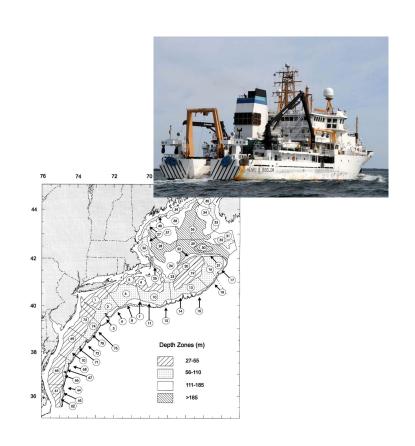


* Martheost Fisheries Science Cenzer, National Morine Fisheries Service, 28 Torsewill Drive, Norregenuer, RI 02882, USA * Norrihman Fisheries Science Cenzer, National Morine Fisheries Service, 166 Water Server, Woods Hole, MA 02543, USA * Massachaseur Drivinion of Morine Enberies, 880 Socient Rodoley French DNA, New Bedgort, AM 02744, USA Fishing Vessel Karen Elizabeth, Narrangungar, RI 02882, USA



Fishery-independent information are vital

- Fishery-independent (FI) info very helpful for understanding resource dynamics
- The development of offshore wind poses a challenge to FI info through the exclusion of large survey vessels
- Use of multiple smaller vessels could be a solution to this challenge
 - Many monitoring efforts being developed to understand wind development impacts
- However differences across vessels is always a concern when analysing data
- Any gear that could help standardize across vessels could be very useful



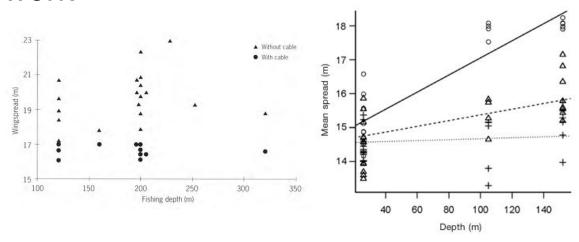
Restrictor rope!?

- Restrictor ropes have been a piece of equipment that have been of interest to industry in the northeast for some time
- Simple connection between warps or doors that limit the maximum spread of the gear
- Initial impetus was desire to standardize NEFSC bottom trawl survey
- But also interest in way to standardize across wind impact monitoring



Motivation for current work

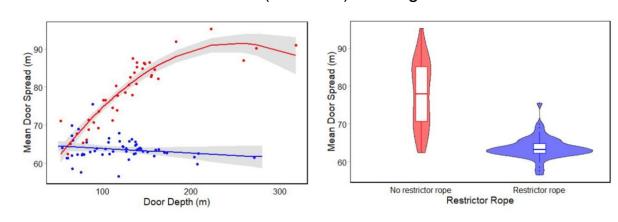
- Evidence in literature for improved trawl geometry with restrictor ropes
- Less information on potential impacts on catch
- Some suggestions that it can impact catches of semi-pelagic species¹
- Has not been recently explored in the northeast US



Fréchet 2000

ICES 2022 (IBTSWG) Norwegian Q3 IBTS

Weinberg and Kotwicki 2015



¹ Rose and Nunnallee (1998), Weinberg and Kotwicki (2015)

2022 NTAP Experiment

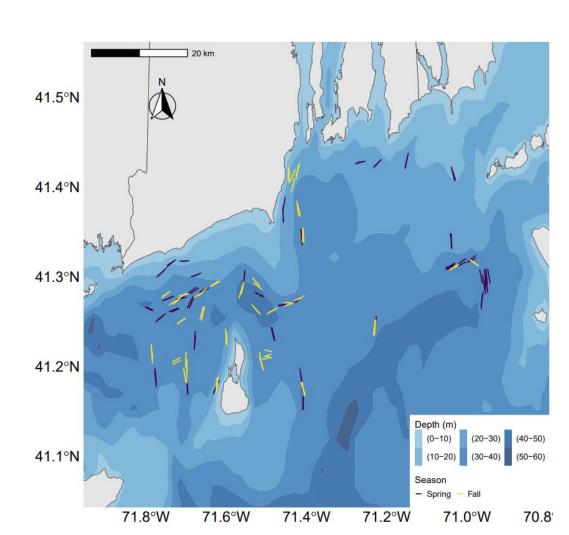
- Experimental work on F/V Darana R to explore restrictor catches
- Essentially an ABBA experiment with the addition of a RR to the 400x12cm, three-bridle four-seam survey trawl
 - Standard NE survey net
 - One tow with one without
 - Reverse the order for next pair
- Here the connection was between the doors on treatment tows





2022 NTAP Experiment

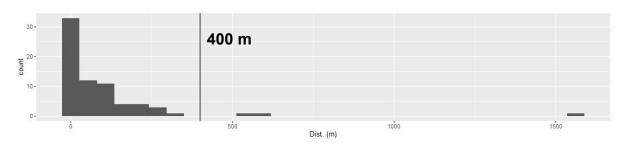
- In 2022, two seasons (spring and fall)
- ~140 tows or ~70 comparisons
- Different than previous NTAP experiments in that it is paired tows rather than using a twin trawl
- Some concerns about this method at outset

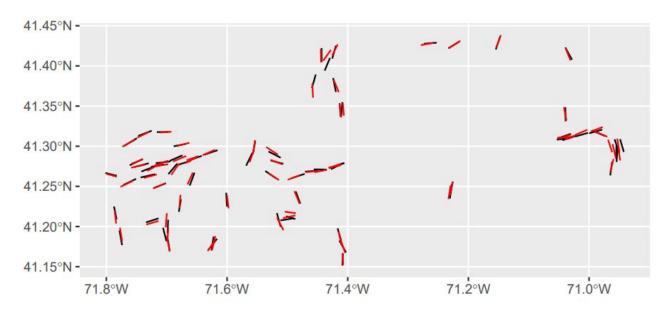


Paired tow spacing

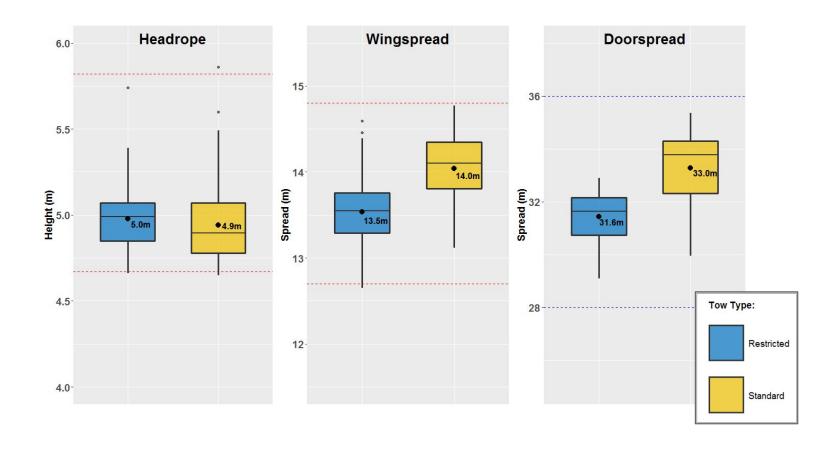
- Excellent job by F/V Darana R!
- Only three tows (2%)
 where mean distance is > 400 m
- Some tows appear to cross at various points (~40)
- Tow tracks could be slightly different than what was recorded (some GPS wobble)

Mean distance





Gear metrics



Gear metric interpretation

- Limited differences in performance because depth range of experiment was shallow and only one vessel used
- There is a subtle treatment effect on net performance
- Suggests restrictor is engaged





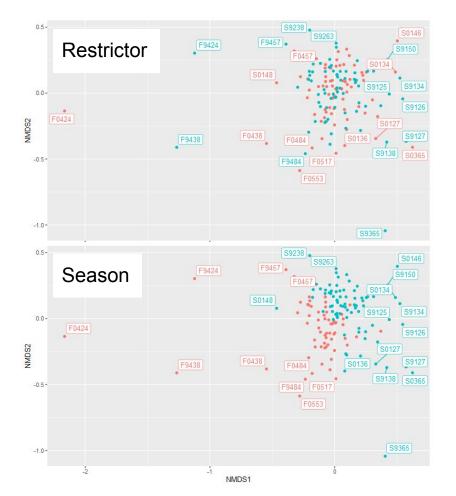
Comparing catches in paired tows

- 1. Investigating species prevalences
- 2. Explore aggregate catches
 - a. Do weights differ in control and treatment?
- 3. Explore catch at length
 - a. Do the proportion at each length in the catch differ between control and treatment?

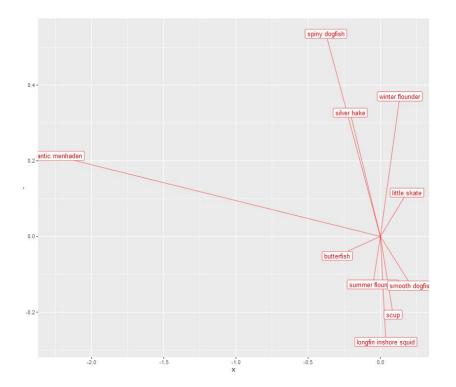




Plotting catches in two dimensions



- No clear effect of restrictor
- Some effect of season
- Differences between seasons relate to spiny dogfish and fluke



Species focus for analysis

- Focus of this work was on roundfish, most likely to be impacted
- Scup, butterfish, and silver hake the roundfish most commonly encountered in the experiment
- Interest in longfin squid as well mobile and thought to have good vision
- Others less commonly caught, might be difficult to draw conclusions about
- Settled on seven species which were most commonly encountered
 - Butterfish,little skate, longfin squid, red hake, scup, silver hake, and winter flounder

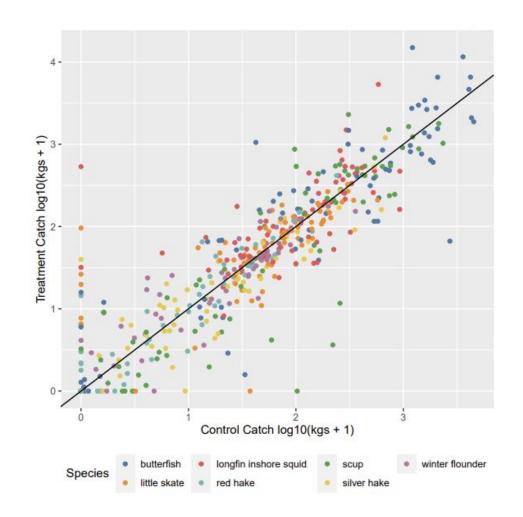






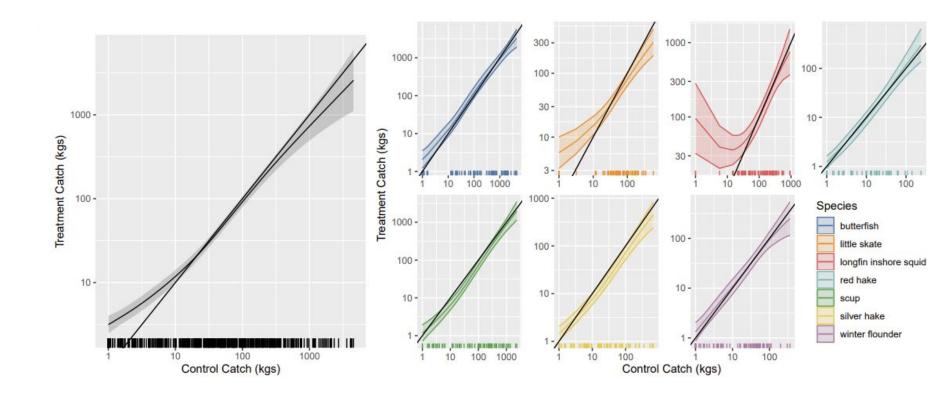
Aggregate catch

- Standardized for area swept
- Log10 + 1 transformed
- Compared to 1:1
- Expect to fall on 1:1 if similar in control and treatment
- For the most part they do



Aggregate catch

Model results show 1:1 for all seven species



Aggregate catch

- Close to 1:1 when regressing catches without and catches with the restrictor rope
- No sig. effects in the model
- Many different model formulations result in similar results
- Suggests no detectable effect of the restrictor rope



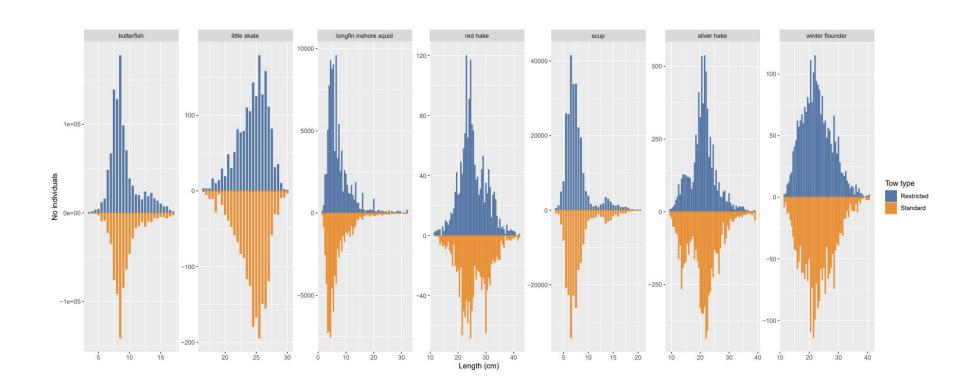
Moving on to individual lengths

- Explored individual lengths for the same seven species
- 2. Also fit statistical models to individual length data to test for statistical effects of the restrictor rope



Individual lengths

• Similar patterns in catch-at-length



Comparing catch in paired tows

- 1. Similar to Holst and Revill (2009)
- Trimmed to lengths that were caught at >10 stations for each species
- 3. Fit GAM models
- Included a set of variables in each model
 - a. Depth, order, season, solar zenith angle, and length
- 5. Preliminary exploration of patterns



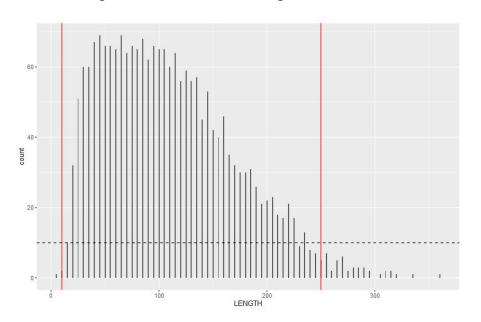
Fisheries Research 95 (2009) 254-259

A simple statistical method for catch comparison studies

René Holsta, 1, Andrew Revill b, s, 1

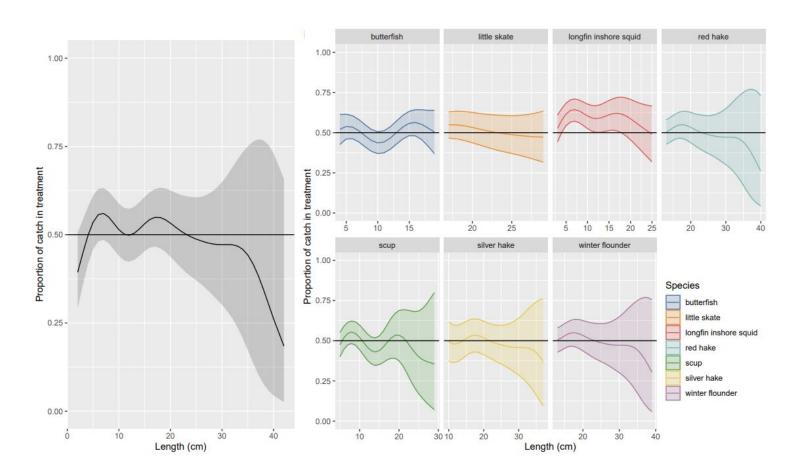
A National Institute of Aquatic Resources, Technical University of Denmark (DTU-Aqua), Box 101, DK-9850 Hirstshals, Denma

Lengths used for modeling



Model outputs

Limited impact on the catch-at-length for seven species



Individual lengths

- Limited differences from the 0.5 mark for most species at most lengths)
 - Control and treatment catches have similar size distributions
- Some questions about the values for longfin squid
- The average trend across species suggests limited differences



Conclusions

- We observed limited impacts of the restrictor rope on catches
- Worth considering the positive impacts of the restrictor on standardizing gear performance when surveys in wind energy areas are being developed
- This could potentially help improve consistency across wind developments and help researchers identify cumulative effects
- One caveat is that we do not have enough data to definitively say that there is no effect of the restrictor rope for all species, but we have some confidence based on the diversity of species sampled through this research





Next steps

- Finalizing manuscript for peer review
- Potentially interested in developing guidance for adoption but might need information beyond this study
 - Decision matrix?



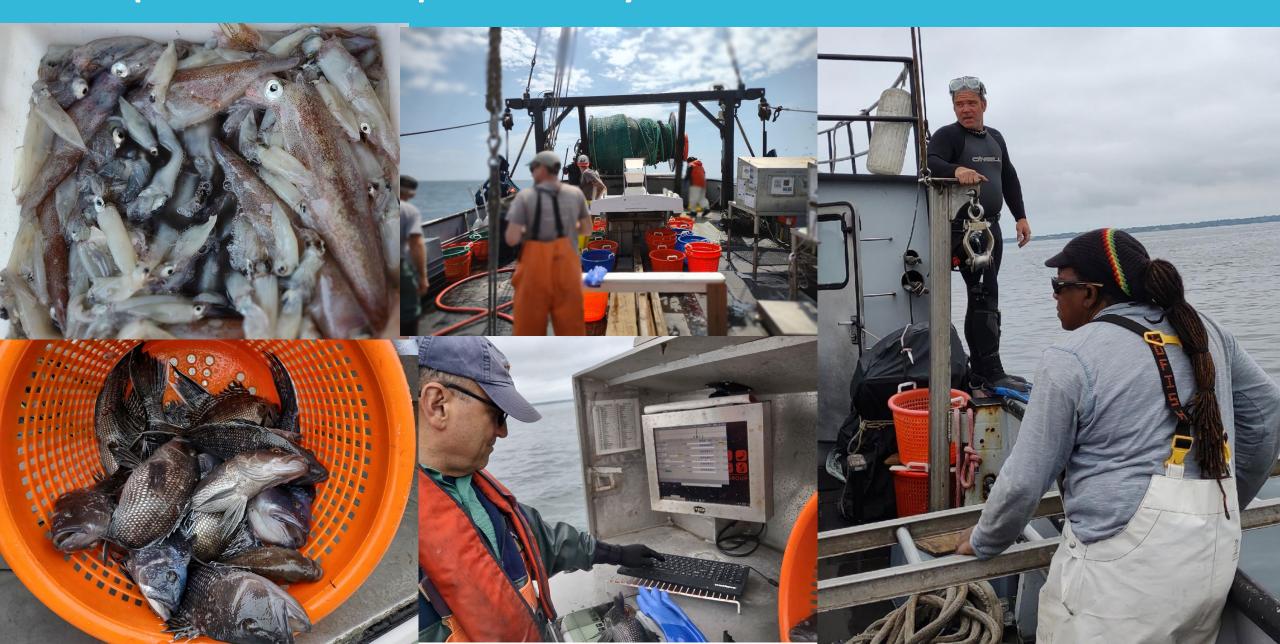
Questions?



References:

- Fréchet, A., 2000. Multiple otter-trawl calibration for the sentinel surveys in the northern Gulf of St. Lawrence. ACTES DE COLLOQUES-IFREMER, pp.37-45.
- ICES. 2022. Workshop on the Further Development of the New IBTS Gear (WKFDNG). ICES Scientific Reports. 4:18. 46 pp. http://doi.org/10.17895/ices.pub.10094
- Rose, C.S. and Nunnallee, E.P., 1998. A study of changes in groundfish trawl catching efficiency due to differences in operating width, and measures to reduce width variation. Fisheries Research, 36(2-3), pp.139-147.
- Weinberg, K.L. and Kotwicki, S., 2015. Reducing variability in bottom contact and net width of a survey trawl by restraining door movement and applying a constant ratio of warp length to depth. Fishery Bulletin, 113(2).

Input from Capt. Bobby Ruhle



Input from Rutgers researchers



The restrictor rope was used on the <u>two seasonal</u> <u>surveys done last year in Ocean Wind 1</u> (summer and fall 2023) on the FV Darana R. It performed well.

They plan to use it in any other future trawl surveys for wind farm monitoring.

They encourage its use elsewhere as a great means to encourage standardization across surveys.

Pls: Doug Zemeckis, Jason Morson





Coordination Sessions: Purpose & Intent



GOALS:

- 1. Offer a forum for each sector to collaborate
- 2. Gather information & document outstanding concerns/questions
- 3. Identify potential solutions

ROSA seeks to provide a neutral space for these discussions, in part to:

- Characterize challenges and solutions, and to
- Understand through what role the organization will best serve the community.



Themes from sector-specific sessions



ROSA OSW Fisheries Monitoring Plan Guidelines

- Complete TBD sections
- Add more detail while remaining flexible
- Increase communication

Community Engagement

- Work beyond FLO to engage fishing industry, early & often
- Foster collaboration across many groups & institutions essential, especially with NOAA

Challenges

- Design & implementation
- Permitting of survey methods
- Length of pre-construction sampling
- Separation of climate change from OSW effects



Coordination Sessions: Next Steps



Final Session: All Sectors

State of the Science: July 16-19, 2024

ROSA staff are distilling session outcomes sessions into a report that will be used to update the Offshore Wind (OSW) Project Monitoring Framework & Guidelines

Draft report to be reviewed by ROSA Research Advisors





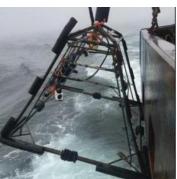




✓ VINEYARD WIND

Fisheries Monitoring







<u>SMAST – Before-After-Control-Impact (BACI)</u> <u>3 Years pre-, 1 year during, 3 years post</u>

Ventless Trap Survey / Plankton Tows – ASMFC protocols May – October (Sample 2x month)

- Lobster with tagging component
- Jonah Crab
- Black Sea Bass -
- Lobster larvae ID and counts, ichthyoplankton

Drop Camera – 2x year, spring/fall

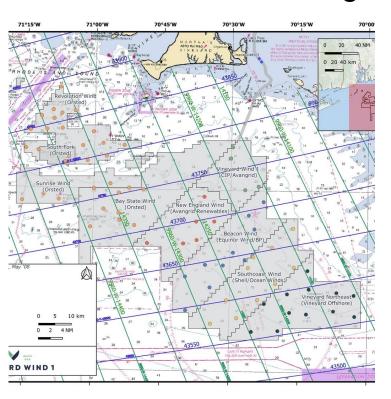
- Comparison, distribution, and abundance of benthic megafauna
- Identify and compare substrate types

Trawl Survey – 4x year - NEAMAP protocols

- Species abundance and distribution
- Aggregate catch weight for each species
- Individual lengths, weights
- CTD cast & bottom water temperature

✓ VINEYARD WIND

Fisheries Monitoring



New England Aquarium – Highly Migratory Species Presence / Absence

Historical data mining for presence of HMS in MA/RI Wind Energy Area

Survey pelagic recreational community for fishing activity in MA/RI Wind Energy Area

Regional Design for Acoustic Receivers and Tagging 5 year plan 2021- 2025

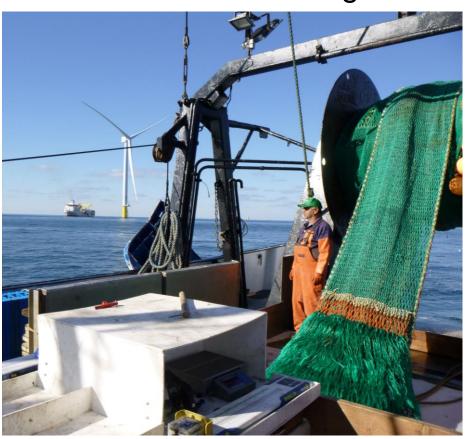
- 4 receivers Vineyard Wind 1
- 12 receivers Vineyard Northeast

Additional Science Initiatives

- Whelk Research Fleet Commercial Fisheries Research Foundation, RI
- False Albacore Acoustic Tagging American Saltwater Guides Association

✓ VINEYARD WIND

Fisheries Monitoring



PRECONSTRUCTION

Reports publicly available on website

Fisheries Science — Vineyard Wind

Peer review process after first year of surveys included 3 fisheries scientists from outside institutions, and 8 fishermen

Ventless Trap Survey / Plankton Tows

- Completed 2 years
- Endangered Species Act Consultation Review Delay

Drop Camera

Completed 3 years

Trawl Survey

- Completed 11 seasons
 - Endangered Species Act Consultation Review Delay

Highly Migratory Species

Receivers deployed in 2022 (spring – fall)

Fisheries Monitoring



DURING CONSTRUCTION

Coordinate lobster trap and acoustic receiver locations with construction team package mangers well in advance

Coordinate fisheries survey vessel activity with Marine Command Center

Register all crew and scientists with safety training certifications and USCG physicals into our computer system

Ventless Trap Survey / Plankton Tows

Completed one year (May – October)

Drop Camera

Completed one year (May, October)

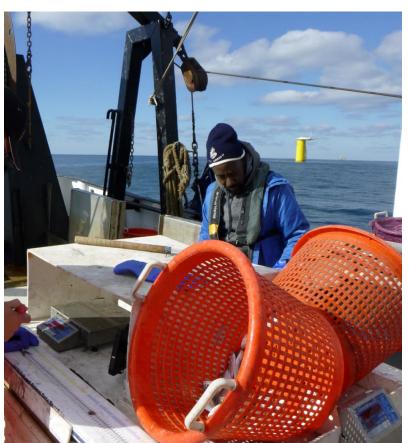
Trawl Survey

Completed one year (Spring 2023 – Winter 2024)

Highly Migratory Species

Receivers deployed in 2023 (spring – fall)

WHAT WE LEARNED



DURING CONSTRUCTION

Fisheries surveys can continue during construction

Fishing vessels can operate safety around towers and construction vessel activity

They did catch fish and lobsters

Results still being analyzed and will include timing of different construction activities during sampling events

- Scour protection deployment
- Pile driving
- Inter-array cable installation

Could have spread the survey effort out over 2 years

3 years post construction will start in 2025



WHAT WE LEARNED

DURING CONSTRUCTION





44 different fishing vessels have supported the project to date

| Scope of Work | # of Vessels | | | | | |
|-----------------------------|--------------|--|--|--|--|--|
| Science | 15 | | | | | |
| Safety Vessel | 26 | | | | | |
| Scout Vessel | 3 | | | | | |
| PSO Vessels* | 6 | | | | | |
| Sub Contractors | 10 | | | | | |
| *Protected Species Observer | | | | | | |



HOW WE DID IT







Organized and paid for Safety Training classes

Organized and paid for Captain Training Classes

Helped individual fishermen with USCG application process

| Individuals | Trainings and Certifications | | |
|-------------|--|--|--|
| 116 | Safety Training Course | | |
| 64 | OUPV Captains Course | | |
| 37 | Master 100 Ton Upgrade | | |
| 16 | Merchant Mariner Credential Applications | | |

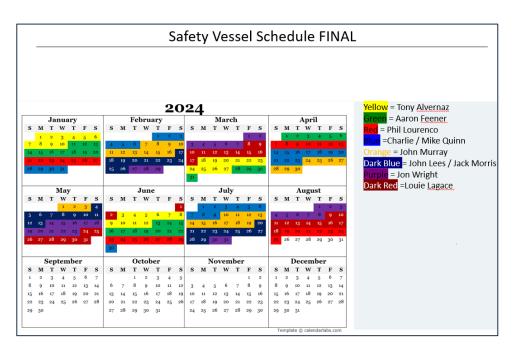


HOW WE DID IT

| Quantity | Description | |
|--|---|---|
| 19 of 23 Vessels inspected have/will work on the VW1 project | Each vessel working for the Vineyard Wind 1 project is required to undergo a vessel inspection to meet compliance requirements. | Pre-Inspected Fishing Vessels before contracts |
| 18 of the 21 vessels that have received equipment upgrades have/will work on the VW1 project | Each of the local fishing vessels working on the project have received equipment upgrades to ensure they will meet compliance standards. | Paid for fishing vessel safety equipment upgrades Paid for fishing vessel communication upgrades |
| 44 individuals have received personal reimbursement through the FV Accelerator fund for these different entities | Personal reimbursements include TWIC cards, First Aid/CPR courses, USCG drug screenings, USCG health and wellness physicals and the USCG application fee to apply for a Merchant Mariner Credential. | Covered the cost of application process, etc. |



HOW WE DID IT



Vineyard Wind contracted directly with fishing vessel owners

Did not have fishing vessel owners bid against each other

Agreed to same day rate, fuel

Contract amounts are equal

Rotational schedule

Safety vessels has been on site 24/7 in the lease area since March 2023



WHAT STILL NEEDS TO BE DONE



Alignment on fisheries survey methods and protocols

- Protected Species Issues = permitting, ESA consultation
- (based on trawl survey results, current effort would provide sufficient power (0.80) to detect a moderate change (50%) for most important trawl species)

Data sharing agreements

- Public access
- Between developers for analysis

Data sharing platform

- Standardization of collection methods
- Data management

Alignment on Health, Safety, and Environment Requirements (HSE)

Fish FORWRD webtool – V3



Fish and Fisheries Offshore Wind Research Database (Fish FORWRD)



- Identifies research gaps on effects of OSW on fish and fisheries by bringing together regional research priorities and regional research projects
- Supports development of research priorities for ROSA's upcoming role as research funding organization
- Useful for finding research gaps for ROSA and other regional research funders

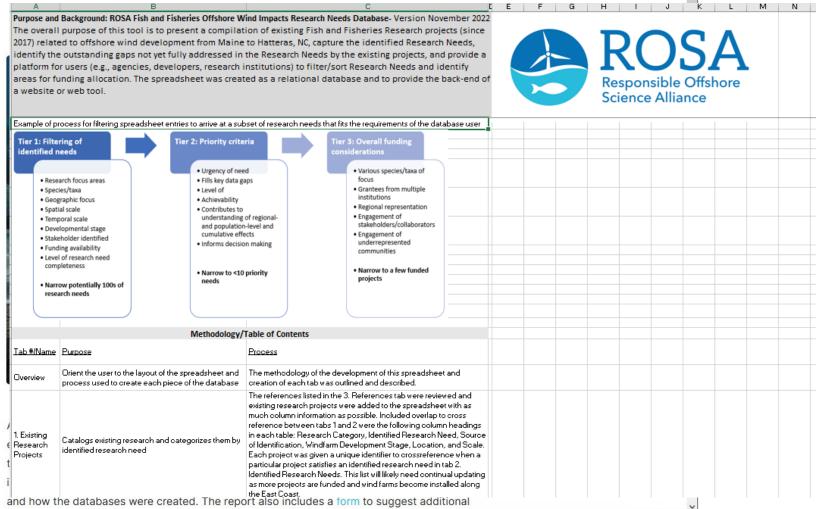






QR CODE for Fish FORWRD spreadsheet









ROSA Fish and Fisheries Offshore Wind Impacts Research Need

87 Existing Project

236Research Needs

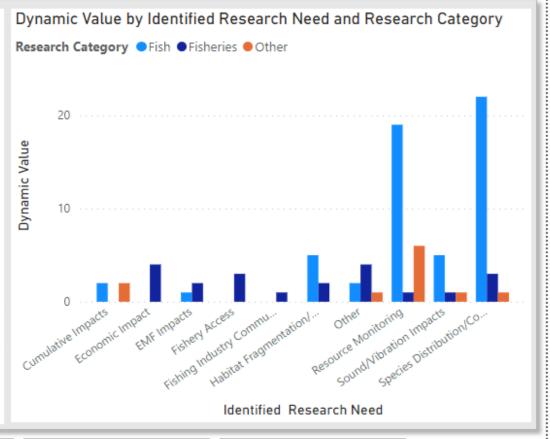
104

Research Needs Addressed by Existing Project

Number and Subject of Research Needs by Level of Completeness Research Needs by Subject and Level of Completeness

Existing Research Projects by Subject and Location

| Identified Research Need | Adequately Addressed | Not Addressed | Partially Addressed | Total |
|---|-----------------------------|---------------|----------------------------|----------|
| | | Not Addressed | | Not Ad |
| ⊞ Community Engagement | | Not Addressed | | Not Ad |
| | | Not Addressed | Partially Addressed | Not Ad |
| ⊞ Economic Impact | | | Partially Addressed | Partiall |
| | | Not Addressed | Partially Addressed | Not Ad |
| ⊞ Fishery Access | | Not Addressed | Partially Addressed | Not Ad |
| | | Not Addressed | Partially Addressed | Not Ad |
| ⊞ Habitat Fragmentation/Modification | | Not Addressed | Partially Addressed | Not Ad |
| | | Not Addressed | | Not Ad |
| ☐ Infrastructure Impacts | | Not Addressed | | Not Ad |
| ⊞ Economic Impact | | Not Addressed | | Not Ad |
| ⊕ Null | | Not Addressed | | Not Ad |
| Other | | Not Addressed | Partially Addressed | Not Ad |
| ⊞ Resource Monitoring | | Not Addressed | Partially Addressed | Not Ad |
| | Adequately Addressed | Not Addressed | Partially Addressed | Adequa |
| | | Not Addressed | Partially Addressed | Not Ad |
| Total | Adequately Addressed | Not Addressed | Partially Addressed | Adequa |



Pivot Dynamic Pivot Existing Projects Research Needs Supplemental Information

Fish FORWRD Database

Welcome Page

Current Projects Research Needs Gap Analysis Data Center



Welcome to the Fish Forward Database Developed in Partnership by ROSA and WSP



What you can do with this Dashboard

With this dashboard, you can easily investigate current projects and identified research needs in the Rosa database, considering various factors such as location, needs type, and more..

How to use this Dashboard

This dashboard is comprised of a number of tabs each with their own purpose and functionality.

Each tab contain a number of features that either help you explore page content or visuals which provide information based on user input. All tables and plots are interactive and can be manipulated via the mouse.

Tab Quick Links

Current Projects

· View ongoing projects with detailed attributes, timelines, and geographical locations.

Research Needs Gap Analysis

· Identify research gaps, explore unaddressed needs linked to ongoing projects.

Total Project Count % Complete 18% 88 Total Unique Research Categories **Total Unique Research Locations** 15 Total Identified Needs % Not Addressed 56% 247



Welcome Page Current Projects Research Needs Gap Analysis Data Center

Welcome to the Fish FORWRD Database Developed in Partnership by ROSA, Attentive Energy, and WSP





What you can do with this Dashboard

With this dashboard, you can easily investigate current projects and identified research needs in the ROSA database, considering various factors such as location, needs type, and more..

How to use this Dashboard

This dashboard is comprised of a number of tabs each with their own purpose and functionality.

Each tab contain a number of features that either help you explore page content or visuals which provide information based on user input. All tables and plots are interactive and can be manipulated via the mouse.

Tab Quick Links

Current Projects

· View ongoing projects with detailed attributes, timelines, and geographical locations.

Research Needs Gap Analysis

· Identify research gaps, explore unaddressed needs linked to ongoing projects.

Total Project Count

88

% Complete or Near Complete

18%

Total Unique Research Categories

10

Total Unique Research Locations

15

Total Identified Needs

247

% Not Addressed

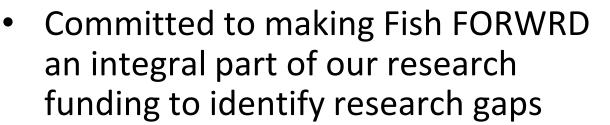
56%



For support, issue reporting, or for features you'd like to see - contact: CONTACTS NEEDED

Moving Fish FORWRD Forward







- Encourage broader use of it by regional funders to avoid overlap and promote efficiency
- Update semi-annually, or perhaps more frequently
- Continuing to refine and to improve the webtool







ACTION ITEMS & NEXT STEPS



- Get to Know ROSA webinar
 (April 8 @ 3pm ET)
- Abstract submittals open: Offshore Wind, Fish, and Fisheries – Emerging Knowledge and Applications Symposium, AFS Annual Meeting (Deadline April 26th)
- NYSERDA State of the Science: Offshore Wind Fisheries Monitoring Plan Development, Implementation, & Evolution Discussion Session (Registration Deadline June 13th)

