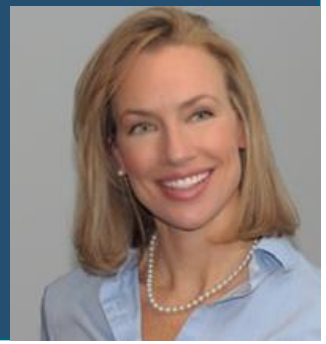
# NJ Research & Monitoring Initiative (RMI) Update: Surfclam Project

October ERWG Meeting • 10/27/22

# RMI Steering Committee

## Kelly Mooij

Director, Division of Clean Energy, BPU



## Kira Lawrence

Senior Scientist, Division of Clean Energy, BPU

## Kati Angarone

Senior Assistant Commissioner for Science & Policy,

DEP

## Megan Brunatti

Deputy Chief of Staff, DEP

## Jim Ferris

Deputy Director, Division of Clean Energy, BPU

## Nick Procopio

Director, Division of Science & Research,

DEP

# Research Team

**Dr. Daphne Munroe**, Jason Morson, Sarah Borsetti
*Rutgers University, Haskin Shellfish Research Lab*

**Dr. Grace Saba**
*Rutgers University, Department of Marine & Coastal Sciences*

**Mr. Tom Dameron**
*Surfside Seafood Products LLC*

**Dr. Daniel Hennen**
*NOAA Northeast Fisheries Science Center*

# Project Managers

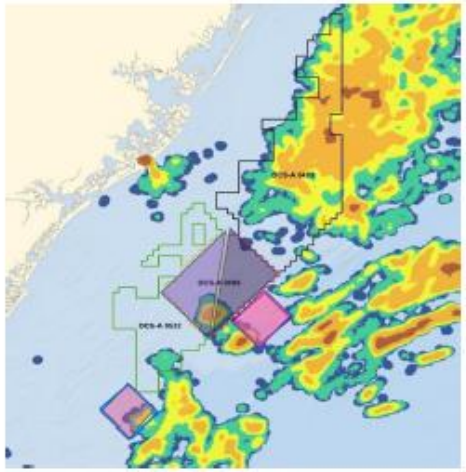
**Colleen Brust & Reneé Reilly**
*NJDEP*

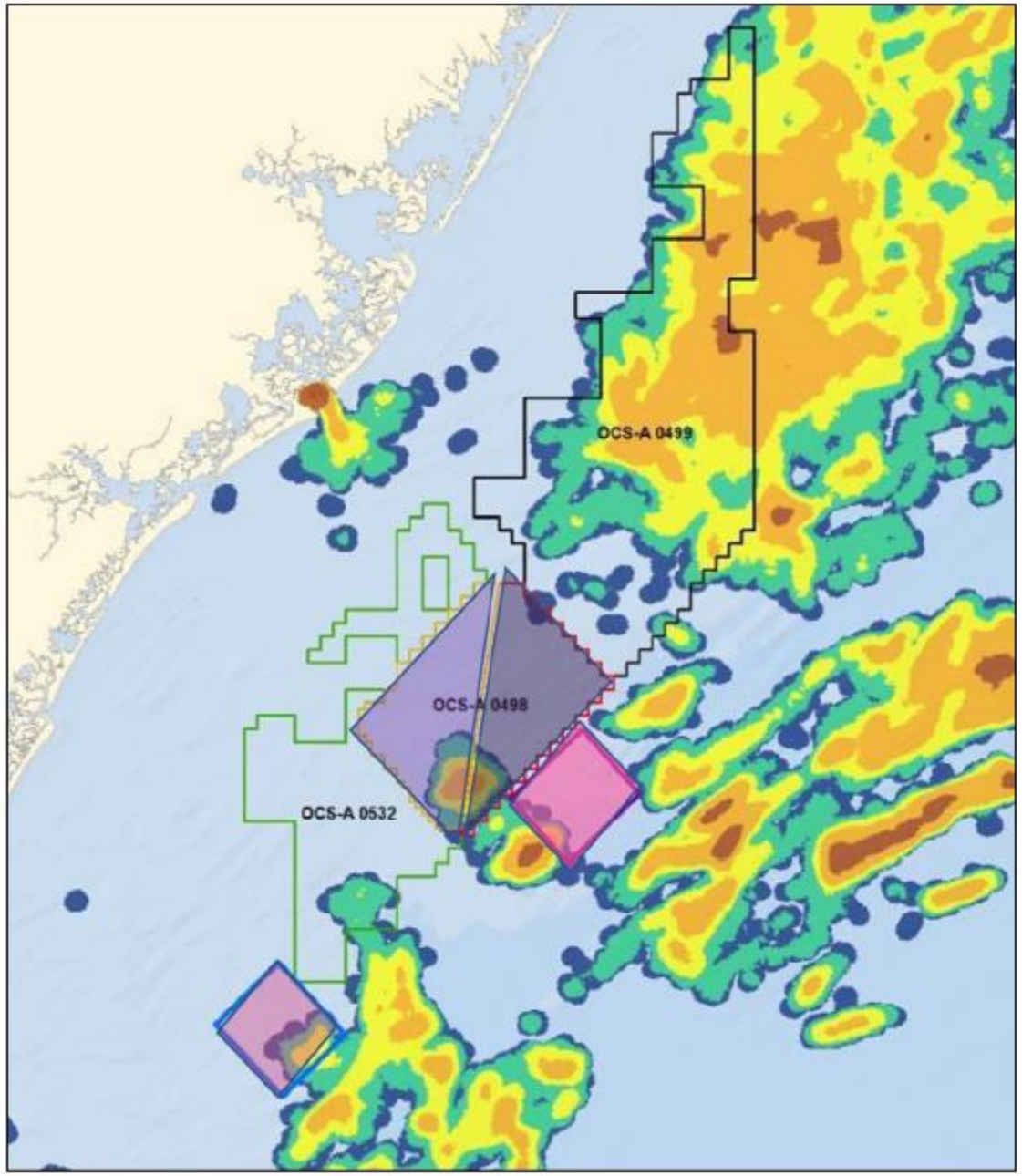

Sorted bushels of clams


Processed clam shells

# Atlantic Surfclam Cooperative Fishery Survey

- **Aim**
  - Quantify dynamic abundance, distribution, and age of surfclams.
- **Methods**
  - Survey vessel: FV Joey D, commercial clam boat
  - Samples collected with a modified commercial hydraulic dredge
  - Ten tows in wind lease area, ten tows in control area per year
  - Before-After-Control-Impact (BACI) design
- **Anticipated Outcome**
  - Document the commercial clam resource in lease area
  - Evaluate any changes to stock over time



*Survey strata (purple) and controls (pink) with heatmap of fishing activity.*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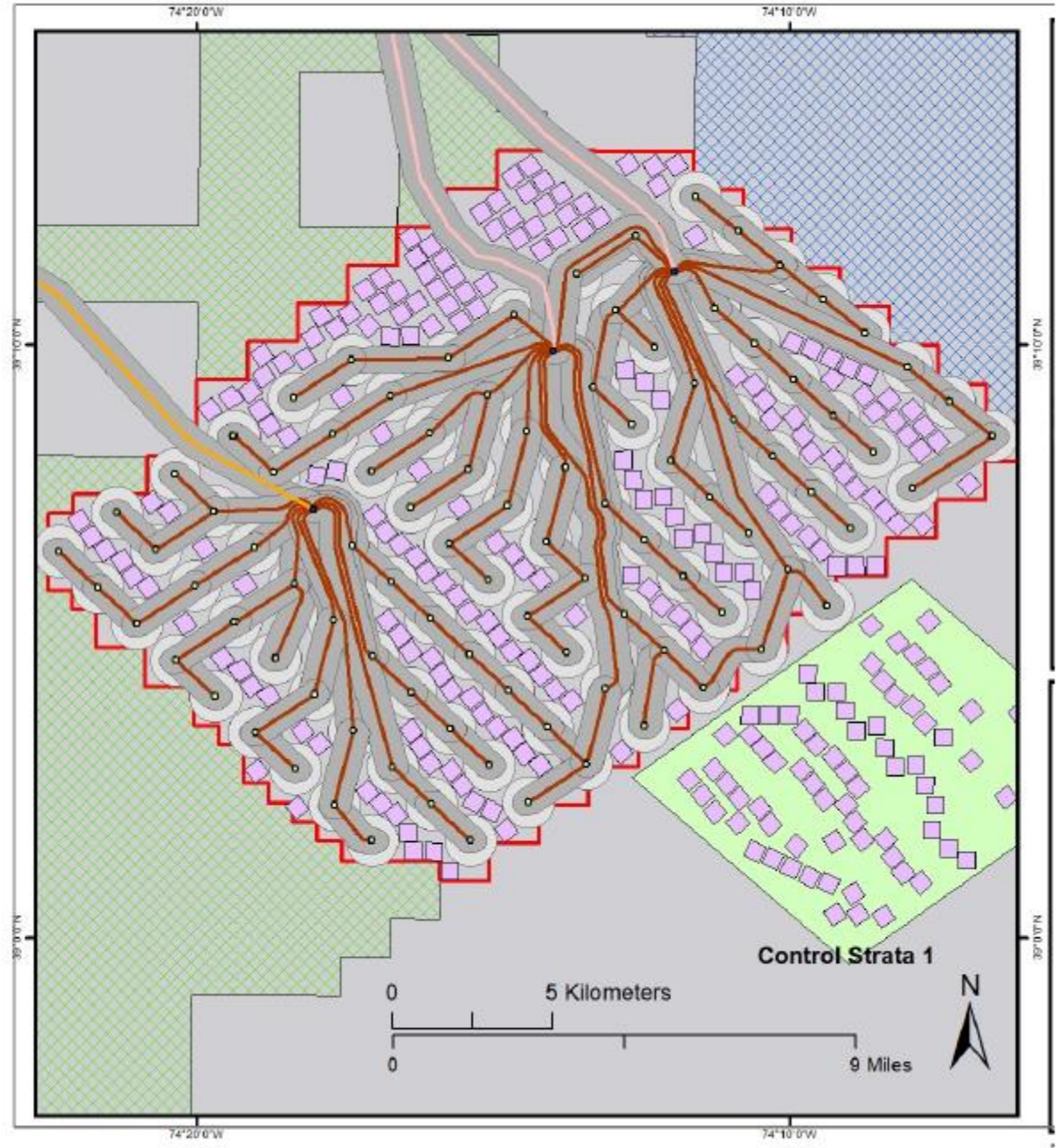
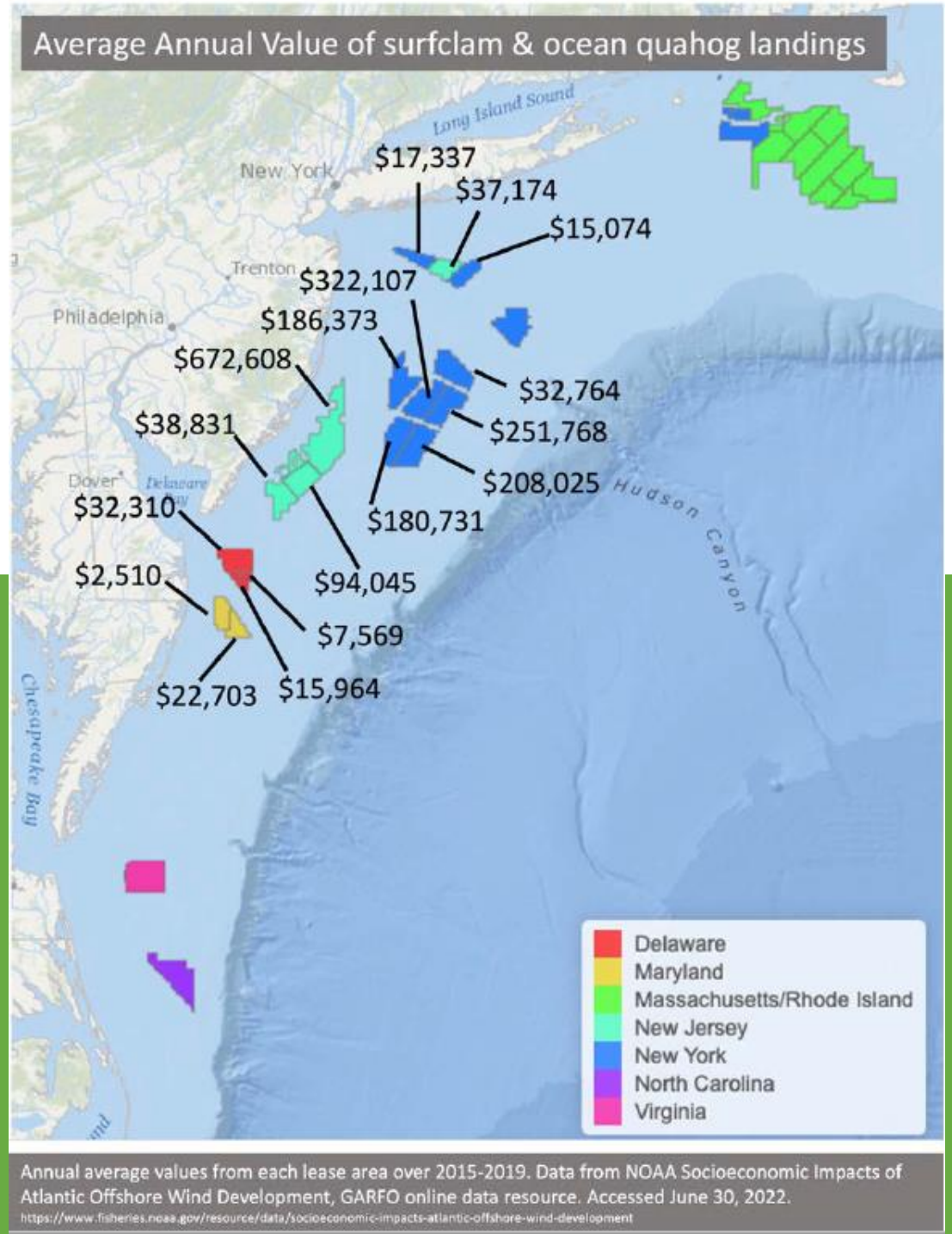
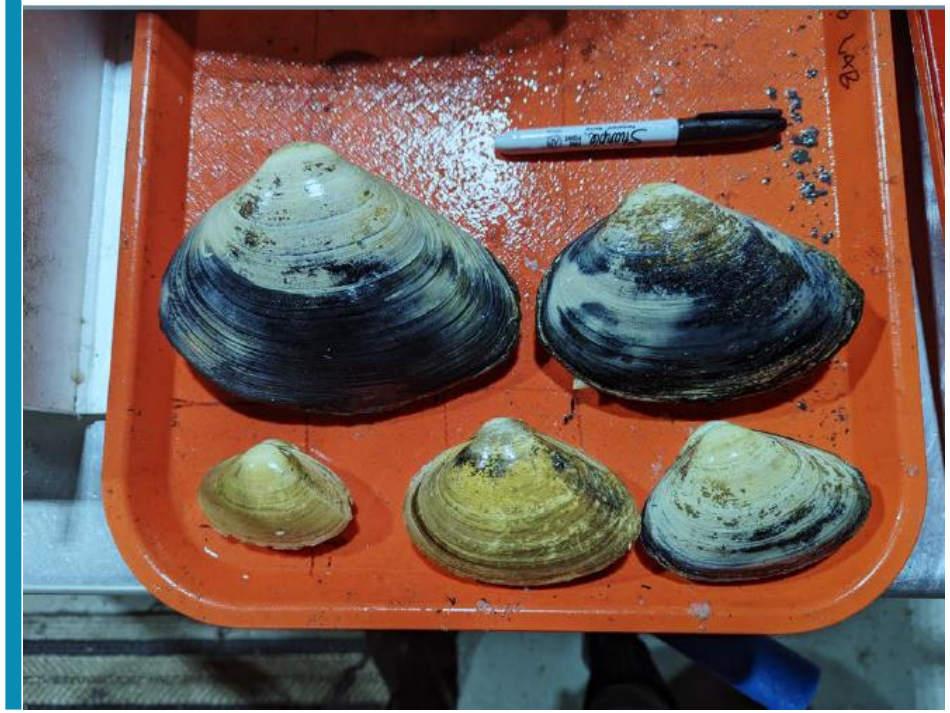

74°20'0"W
74°10'0"W
39°10'0"N
39°0'0"N
Control Strata 1
0
5 Kilometers
0
9 Miles
N




Annual average values from each lease area over 2015-2019. Data from NOAA Socioeconomic Impacts of Atlantic Offshore Wind Development, GARFO online data resource. Accessed June 30, 2022.
https://www.fisheries.noaa.gov/resource/data/socioeconomic-impacts-atlantic-offshore-wind-development

# Average Annual Value of surfclam & ocean quahog landings

# Goals of the Project



## Objective 1

Construct scientific surfclam dredge

- Smaller bar spacing

## Objective 2

Calibrate dredge

- Federal Survey Stations
- Size Selectivity Experiments
- Dredge Efficiency Experiments

## Objective 3

Collect ocean acidification data

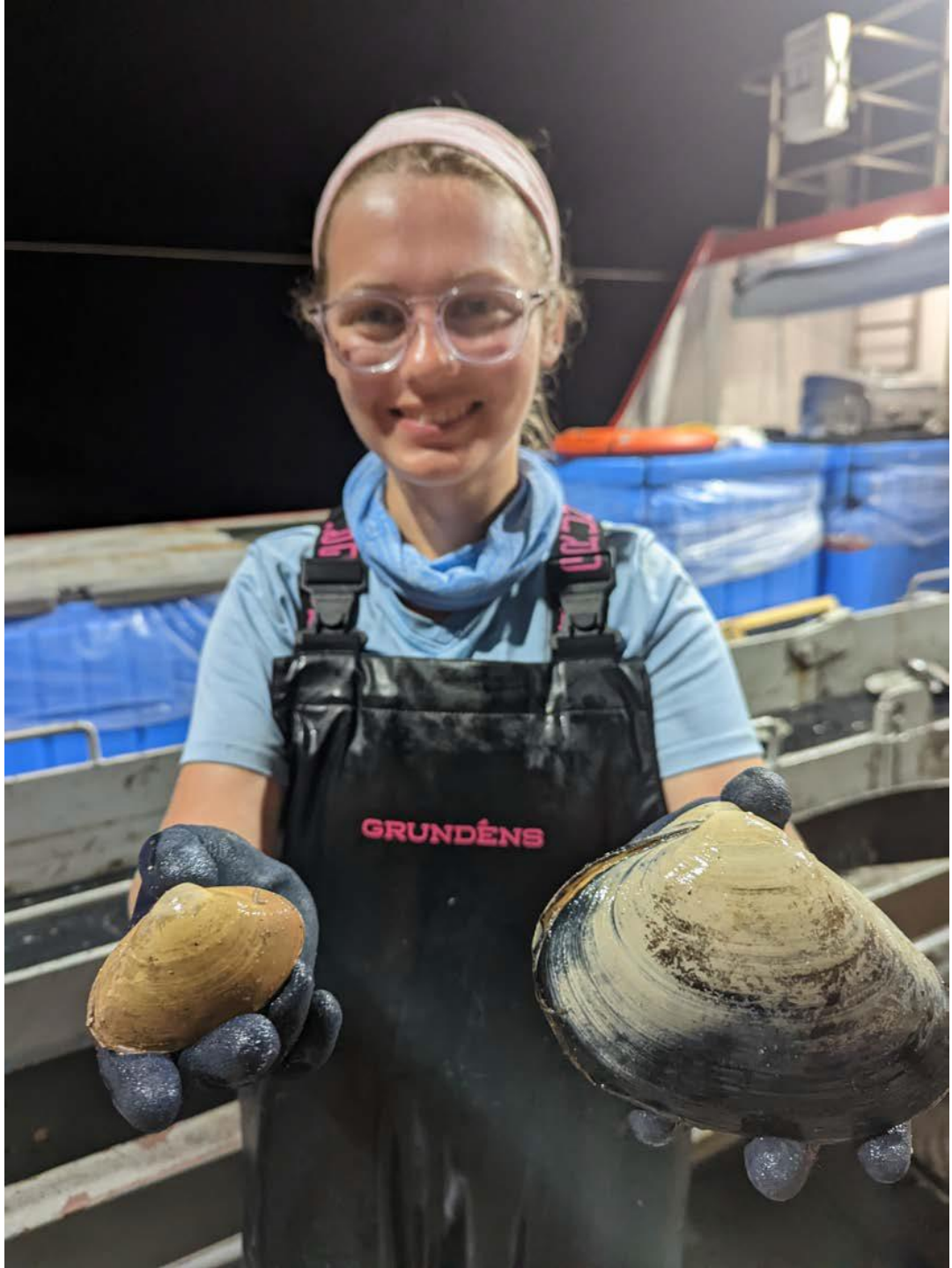
- Profile carbonate saturation
- Benthic grabs (early recruits)
- Shell strength testing

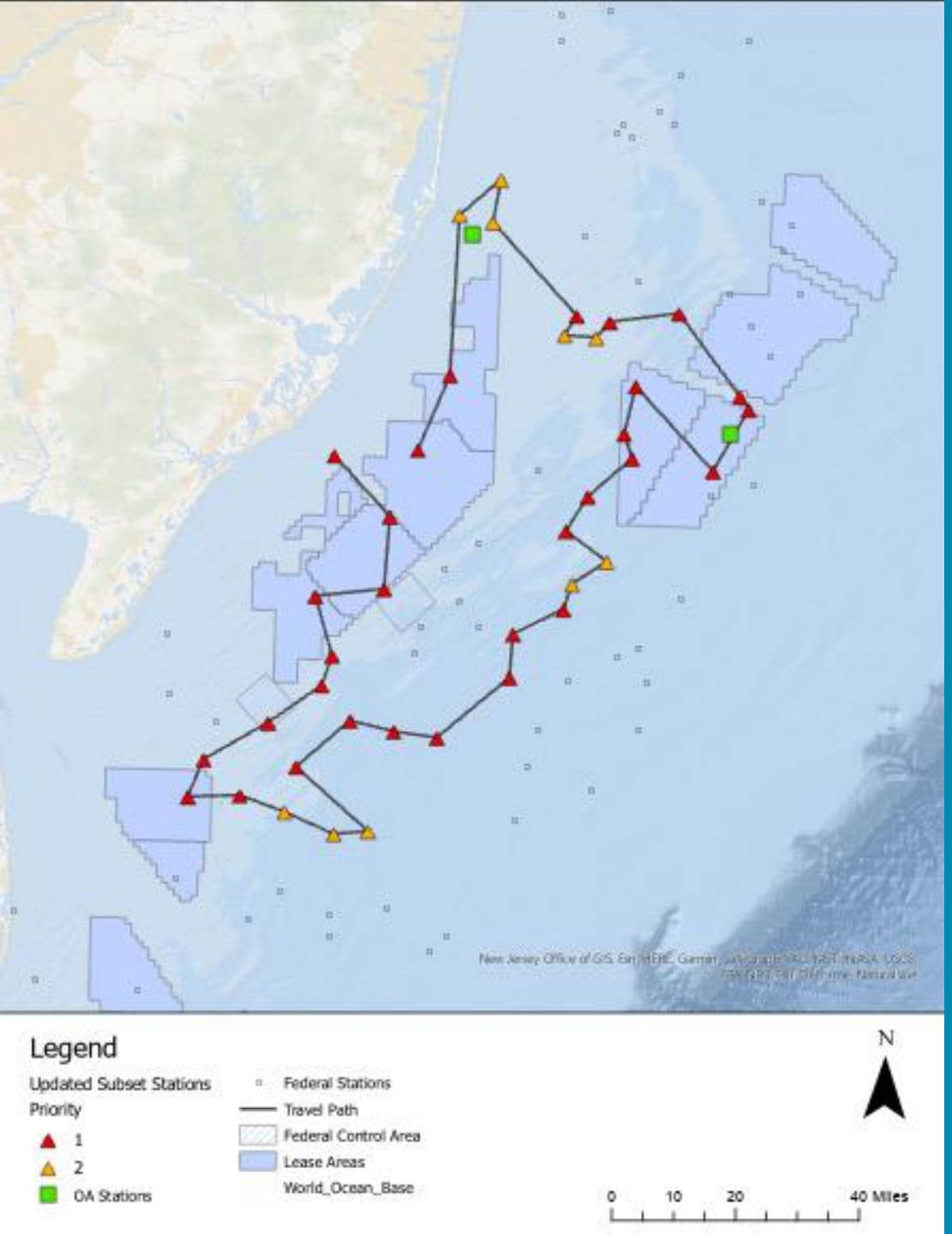
# 2022 Surfclam Surveys
# Ocean Wind 1
# RMI / Federal Survey Calibration

# Mobilization

# Scientific Dredge

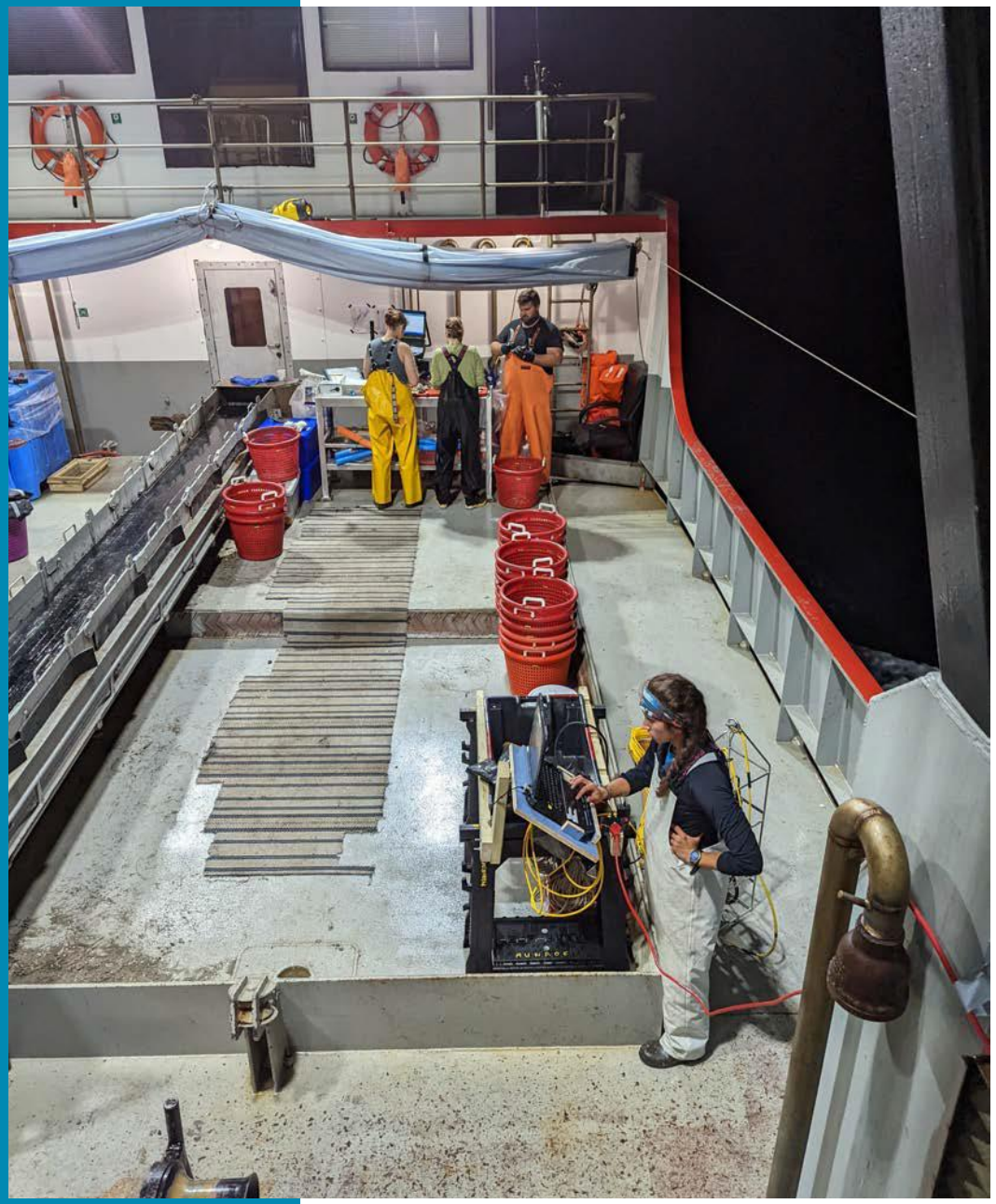
- **Bar spacing captures wider range of clam sizes**
- **Subsamples taken for growth, shell thickness and strength testing**






# Sampling Locations

- 40 stations covered
- Occupied same space & time as federal survey



# Benthic Grab Samples

# Benthic Grab Samples

# Next Steps

## Objective 1 ☑

Dredge is built!

## Objective 2

Dredge calibration

- Size Selectivity Experiments
- Dredge Efficiency Experiments

## Objective 3

Ocean Acidification Data

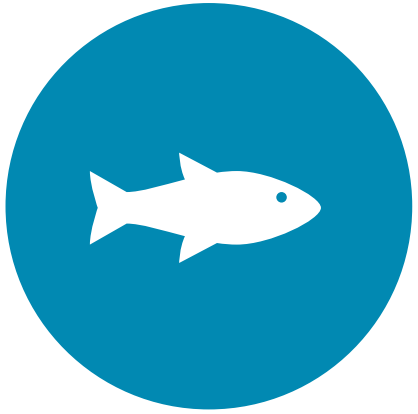
- Oceanographic data processing
- Shell ages
- Shell strength testing

# Next Steps: RMI

## Projects in implementation phases

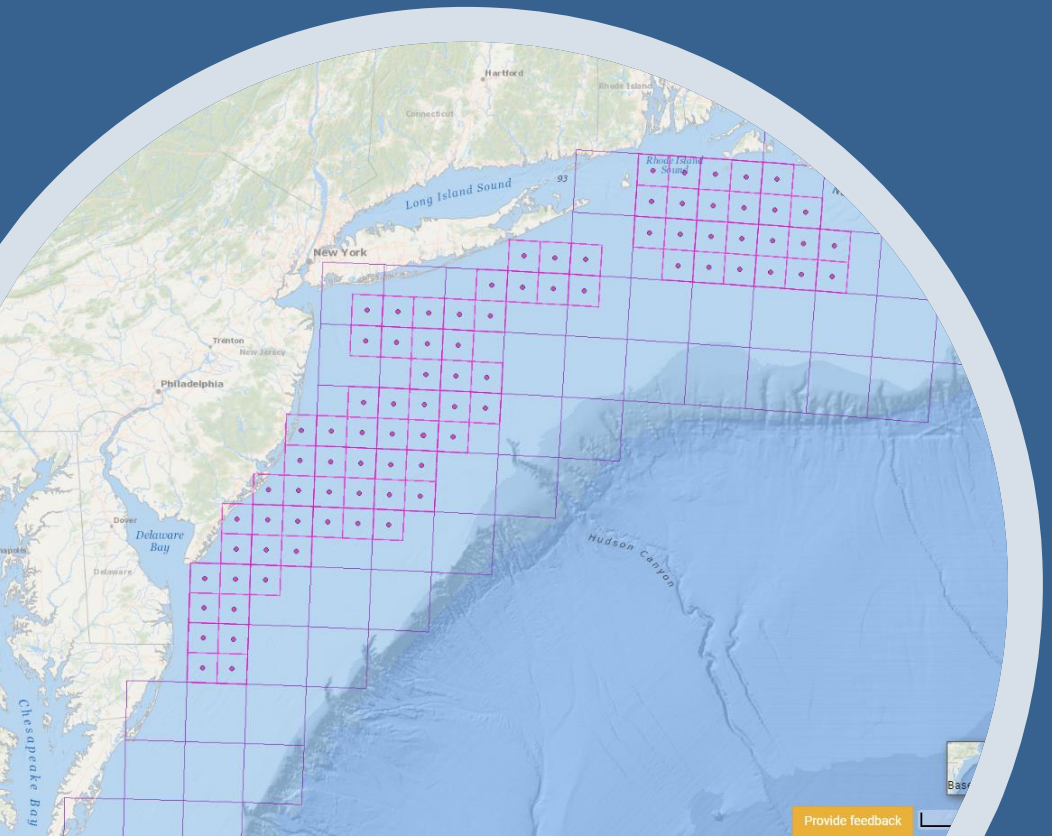
**Gliders: Environmental & Ecological Baselines**

**Passive Acoustic Monitoring for Cetaceans**



**Acoustic Telemetry for fish**

**Socioeconomics of Recreational Fisheries Economy**




# Communications

- **RMI Website:** bit.ly/NJ_RMI
- **Instagram:** @njdep.scienceandresearch
- Mid-Atlantic AFS Meeting

# Thank you!


**NJ Research & Monitoring Initiative**

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NJ.GOV/DEP/OFFSHOREWIND/RMI

# SAA OSW Transmission Solution
# and
# OSW Generation Solicitation 3 Update

Jim Ferris
Deputy Director, Division of Clean Energy
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# SAA OSW Transmission Solution

Project selected - Larrabee Tri-collector Solution proposed by Mid Atlantic Offshore Development (MAOD) and JCP&L (plus additional onshore upgrades)

- New substation near the existing Larrabee substation in Howell Twp
- The new substation will be electrically connected to the existing Larrabee substation, and two other existing substations at Smithburg and Atlantic
- There will be a single landing point on shore for approximately 3 future projects
- There will be a single route from the landing point to the new substation using the pre-build concept
- Generation developers will build their own substations within their project footprint and install their own cables to the landing point through the Prebuild infrastructure

# SAA OSW Transmission Solution

- We were expecting to get option 2 proposals (ocean facilities) that would collect multiple projects at a substation in the ocean and then collectively bring the power to shore.  We did not get those proposals, primarily due to the limitations of existing technology that will not allow the collection of multiple projects of the size we expect (~1200 MW or greater)
- We did not receive option 3 proposals (backbone) where benefits were greater than costs
- All public information, including the developer proposals, PJM reports, our consultant's report, and reports from DEP, Rate Counsel and DMAVA,  are available through the BPU public search tool at https://publicaccess.bpu.state.nj.us/ Docket Number QO20100630

# OSW Generation Solicitation 3 Update

- Received responses to the first RFI and they will be summarized for you next
- A second RFI is expected to be issued in the next few days specifically focused on questions regarding the SAA solution and the potential for enabling mesh-ready substations
- A draft guidance document will be issued in November with a stakeholder meeting in December and a period for written comments after the stakeholder meeting
- A final guidance document will be issued in Q1 2023
- To join the BPU listserv go to this link https://publicaccess.bpu.state.nj.us/

# BPU Offshore Wind Solicitation #3

# Request for Information: Summary of Environmental Responses

Samantha Tse
Program Specialist
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# Comments From…

- Atlantic Shores
- Attentive Energy
- Bluepoint Wind
- Community Offshore Wind
- Leading Light Wind
- NJ Residents
- Orsted
- ROSA
- Waterfront Alliance

# Environmental Protection Plan (EPP) & Fisheries Protection Plan (FPP) Requirements

## EPP

- Include project noise impact on marine life and human environment.
- Consider a cumulative impact analysis of projects along the East Coast – underwater noise, viewshed, fisheries impact, and wildlife.

## FPP

- Quantify any negative impacts on local fisheries in dollar and job costs.

# Data Sharing

- Coordinate data collection among leaseholders.
- Standardization of data to allow for merging of data sets and upload data to a regional or centralized publicly-accessible portal.
- Proprietary data should become available as soon as practicable once commercial sensitivities, such as COP submission, have passed.
- Restricted proprietary data should include legal, financial, design and engineering, strategic business, and any other data that may directly or indirectly disadvantage an applicant.

# Stakeholder Review

- Engagement should begin prior to the NEPA process and during the formal public review periods under NEPA.
- Incorporate timely input and review from regional groups (RWSC, NYSERDA TWGs, ROSA, NJ OSW Working Group), federal and state agencies.
- Request a plan for engagement and co-design of monitoring plans in solicitation 3 submissions.

# Embodied Carbon

- Emissions impact report should include emissions related to acquiring base materials, fabricating major component parts, and disposing of used materials/waste. The report should also include the expected changes within the PJM grid from the substitution of dispatchable to non-dispatchable power.

- Allow Bidders to analyze embodied carbon in the supply chain at Financial Close or Commercial Operation.

- Create a standardized model for the State to analyze the embodied carbon of projects.

# Monitoring Fund

- Allow Bidders the flexibility to make payments over time.
- Broaden the eligibility for receiving this funding to a greater number of institutions and scientists.
- Awarded researchers should provide a formal overview of the project scope, including regular reporting schedule, to developers.
- Consider using this funding to develop a data repository.