Northeast Ocean Plan

Stakeholder Forum

May 2, 2017

MEETING OBJECTIVES

NORTHEAST OCEAN PLAN

Provide updates and discuss progress implementing the Northeast Ocean Plan, with a focus on initiatives to:

- Use, maintain and update the Northeast Ocean Data Portal
- Advance aspects of plan performance monitoring and evaluation

Obtain feedback on progress to date and potential next steps to inform decisions at the Northeast Regional Planning Body Meeting on May 24

NORTHEAST REGIONAL PLANNING BODY

NORTHEAST OCEANPLAN

Six New England states

Six federally-recognized tribes

Nine federal agencies

New England Fishery Management Council

Two ex-officio members, NY and Canada

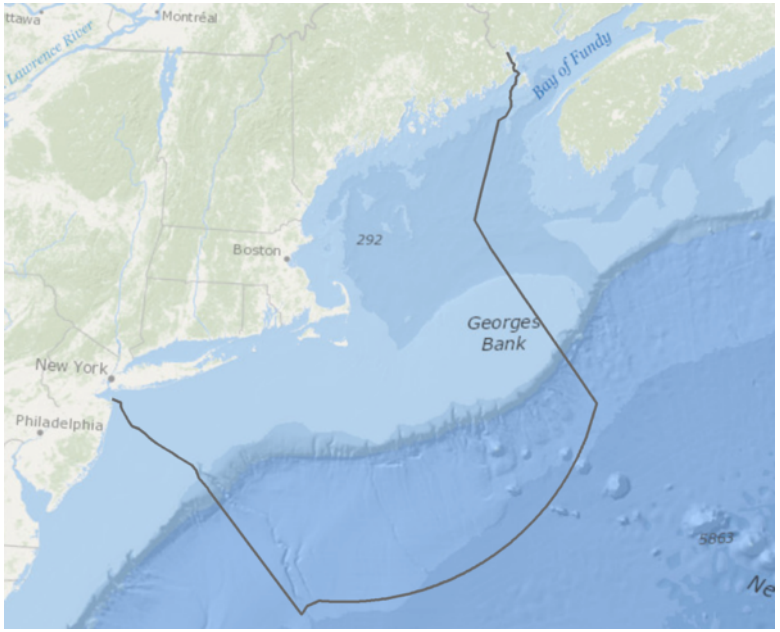
NORTHEAST OCEAN PLAN: GOALS

NORTHEAST OCEANPLAN

Healthy ocean and coastal ecosystems

Effective decision-making

Compatibility among past, current and future ocean uses



TIMELINE

NORTHEAST OCEANPLAN

October – December

- Northeast Ocean Plan finalized and certified by the National Ocean Council
- RPB begins to organize itself for implementation

January – March

- Plan is adopted and signed by RPB leadership
- RPB begins implementing the actions in the Plan and developing associated materials for upcoming public conversations

April - May

- April 13 public webinar to provide an overview of implementation activities in preparation for May public meetings
- May 2 Stakeholder Forum in Portsmouth, NH
- May 24 RPB Meeting in Gloucester, MA

IMPLEMENTATION WORK PLAN OVERVIEW
NORTHEAST OCEAN DATA PORTAL

NORTHEAST **OCEANPLAN**

- Communicating the use and role of the Portal
  - Portal use and case studies
  - Relationship of the Portal to the Plan and other data and information systems

- Updating ocean activity data
  - RPB actions to update data
  - Outreach to relevant stakeholders

- Updating marine life, habitat, and important ecological areas (IEA) data products
  - RPB actions to update marine life and habitat data
  - Advance IEA framework by developing draft data products for each component of ecological importance
  - Input on draft methods and products

IMPLEMENTATION WORK PLAN OVERVIEW
MONITORING AND EVALUATION

NORTHEAST OCEAN PLAN

What is Monitoring & Evaluation?

NORTHEAST OCEAN PLAN establishes two tracks

Plan Performance Monitoring

Measure progress toward implementing the Plan's actions and achieving the Plan's goals and objectives

- Conditions before Plan
- Track implementation
- Obtain public input

Ecosystem Health Monitoring & Evaluation

Measure changes in the ecosystem, including human activities, to identify issues that may require management attention

- Baseline
- Indicators
- Obtain public input

Inform amendments and updates to the Plan

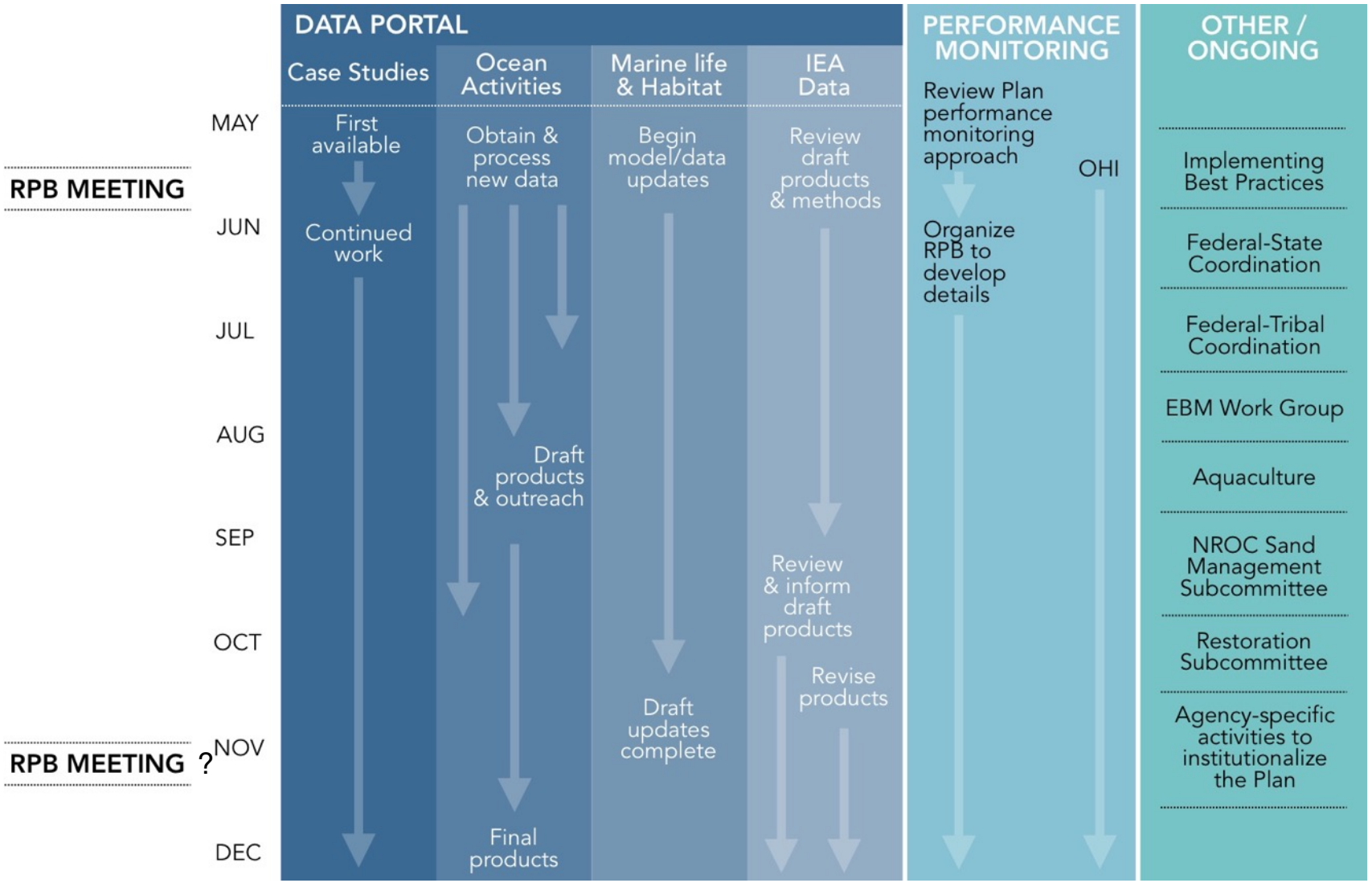
IMPLEMENTATION WORK PLAN OVERVIEW
OTHER TOPICS, WORK GROUPS, & SUBCOMMITTEES

NORTHEAST OCEANPLAN

- Implementing Best Practices
- Federal-State Coordination
- Federal-Tribal Coordination
- Ecosystem-based Management (EBM) Work Group
- Aquaculture
- NROC Sand Management Subcommittee
- Restoration Subcommittee
- Agency-specific activities to institutionalize the Plan

IMPLEMENTATION WORK PLAN OVERVIEW
TIMELINE

NORTHEAST OCEANPLAN



NORTHEAST OCEAN DATA PORTAL

MAINTENANCE AND USE

NORTHEAST OCEANPLAN

RPB activities to maintain the Portal as stated in Chapter 4:

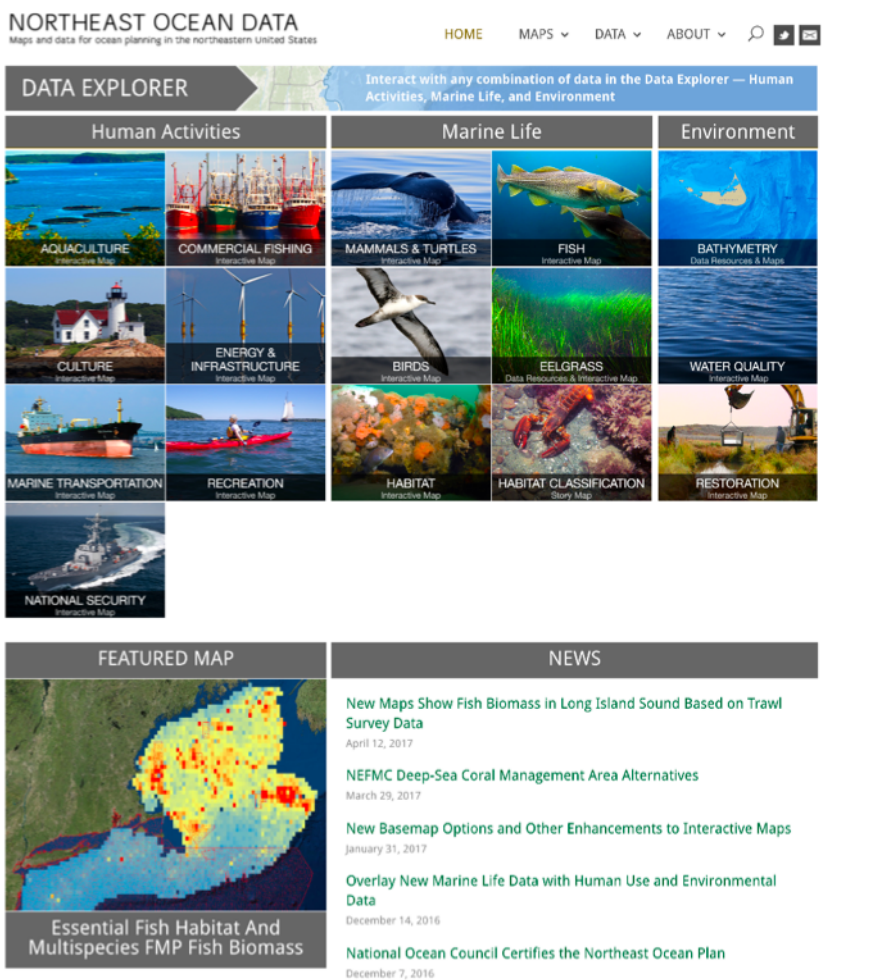
<u>2017</u>

- Update priority data (priority data are those data cited in Chapter 3)
- Update contextual data
- Webinars and trainings
- Options for long term hosting and maintenance, considering the above

Also, importantly, understand and communicate Portal use

<u>2018</u>

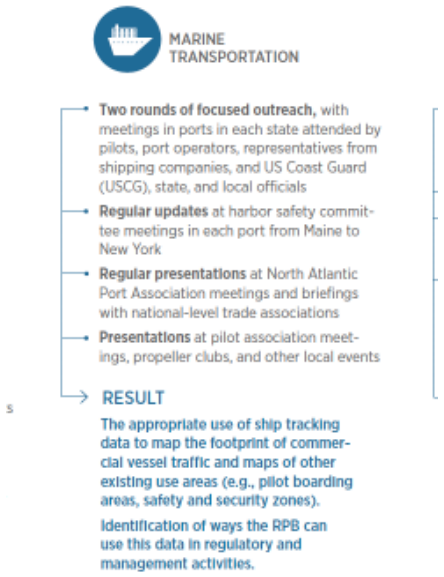
Review long-term options



NORTHEAST OCEAN DATA PORTAL

MAINTENANCE AND USE

NORTHEAST **OCEANPLAN**



MARINE TRANSPORTATION

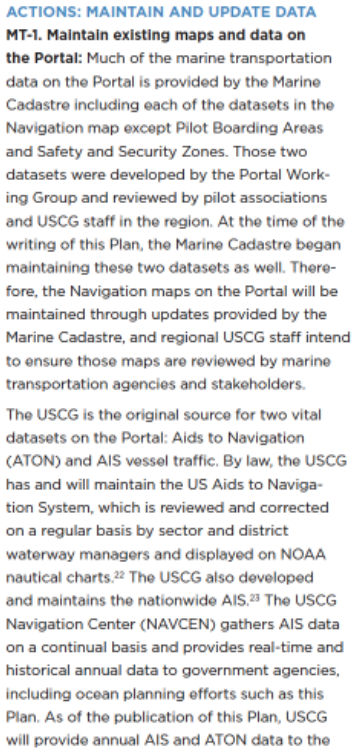
- **Two rounds of focused outreach,** with meetings in ports in each state attended by pilots, port operators, representatives from shipping companies, and US Coast Guard (USCG), state, and local officials
- **Regular updates** at harbor safety committee meetings in each port from Maine to New York
- **Regular presentations** at North Atlantic Port Association meetings and briefings with national-level trade associations
- **Presentations** at pilot association meetings, propeller clubs, and other local events

RESULT

The appropriate use of ship tracking data to map the footprint of commercial vessel traffic and maps of other existing use areas (e.g., pilot boarding areas, safety and security zones).

Identification of ways the RPB can use this data in regulatory and management activities.

Chapter 2 describes process for developing and vetting priority data

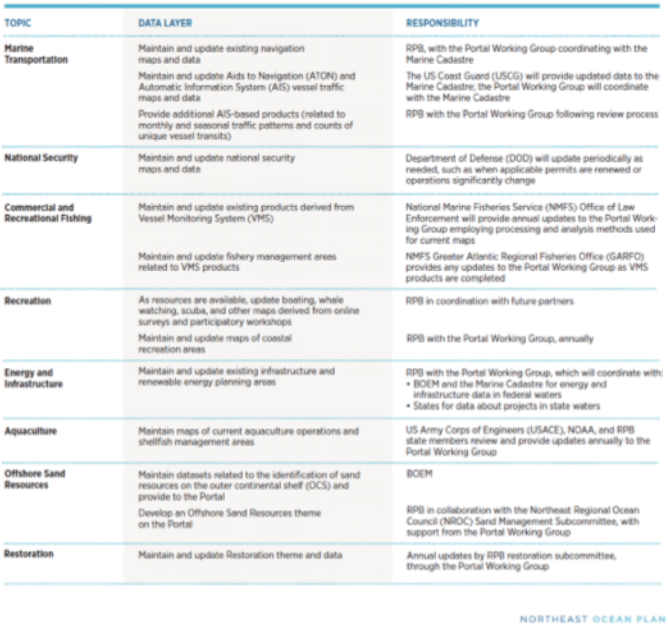


ACTIONS: MAINTAIN AND UPDATE DATA

MT-1. Maintain existing maps and data on the Portal: Much of the marine transportation data on the Portal is provided by the Marine Cadastre including each of the datasets in the Navigation map except Pilot Boarding Areas and Safety and Security Zones. Those two datasets were developed by the Portal Working Group and reviewed by pilot associations and USCG staff in the region. At the time of the writing of this Plan, the Marine Cadastre began maintaining these two datasets as well. Therefore, the Navigation maps on the Portal will be maintained through updates provided by the Marine Cadastre, and regional USCG staff intend to ensure those maps are reviewed by marine transportation agencies and stakeholders.

The USCG is the original source for two vital datasets on the Portal: Aids to Navigation (ATON) and AIS vessel traffic. By law, the USCG has and will maintain the US Aids to Navigation System, which is reviewed and corrected on a regular basis by sector and district waterway managers and displayed on NOAA nautical charts.[22] The USCG also developed and maintains the nationwide AIS.[23] The USCG Navigation Center (NAVCEN) gathers AIS data on a continual basis and provides real-time and historical annual data to government agencies, including ocean planning efforts such as this Plan. As of the publication of this Plan, USCG will provide annual AIS and ATON data to the

Chapter 3 describes the data and actions to maintain and update priority data



TOPIC	DATA LAYER	RESPONSIBILITY
Marine Transportation	Maintain and update existing navigation maps and data	RPB, with the Portal Working Group coordinating with the Marine Cadastre
	Maintain and update Aids to Navigation (ATON) and Automatic Information System (AIS) vessel traffic maps and data	The US Coast Guard (USCG) will provide updated data to the Marine Cadastre; the Portal Working Group will coordinate with the Marine Cadastre
	Provide additional AIS-based products (related to monthly and seasonal traffic patterns and counts of unique vessel transits)	RPB with the Portal Working Group following review process
National Security	Maintain and update national security maps and data	Department of Defense (DOD) will update periodically as needed, such as when applicable permits are renewed or operations significantly change
Commercial and Recreational Fishing	Maintain and update existing products derived from Vessel Monitoring System (VMS)	National Marine Fisheries Service (NMFS) Office of Law Enforcement will provide annual updates to the Portal Working Group employing processing and analysis methods used for current maps
	Maintain and update fishery management areas related to VMS products	NMFS Greater Atlantic Regional Fisheries Office (GARFO) provides any updates to the Portal Working Group as VMS products are completed
Recreation	As resources are available, update boating, whale watching, scuba, and other maps derived from online surveys and participatory workshops	RPB in coordination with future partners
	Maintain and update maps of coastal recreation areas	RPB with the Portal Working Group, annually
Energy and Infrastructure	Maintain and update existing infrastructure and renewable energy planning areas	RPB with the Portal Working Group, which will coordinate with: • BOEM and the Marine Cadastre for energy and infrastructure data in federal waters • States for data about projects in state waters
Aquaculture	Maintain maps of current aquaculture operations and shellfish management areas	US Army Corps of Engineers (USACE), NOAA, and RPB state members review and provide updates annually to the Portal Working Group
Offshore Sand Resources	Maintain datasets related to the identification of sand resources on the outer continental shelf (OCS) and provide to the Portal	BOEM
	Develop an Offshore Sand Resources theme on the Portal	RPB in collaboration with the Northeast Regional Ocean Council (NROC) Sand Management Subcommittee, with support from the Portal Working Group
Restoration	Maintain and update Restoration theme and data	Annual updates by RPB restoration subcommittee, through the Portal Working Group

NORTHEAST OCEAN PLAN 159

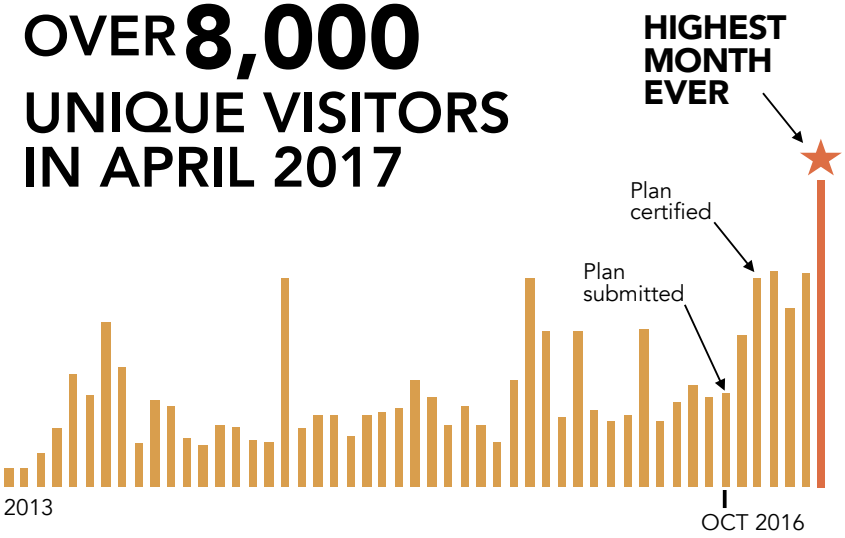
Chapter 4 summarizes agency responsibilities for maintaining data

NORTHEAST OCEAN DATA PORTAL

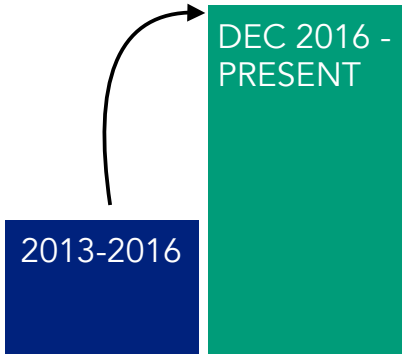
MAINTENANCE AND USE

NORTHEAST OCEANPLAN

OVER 8,000 UNIQUE VISITORS IN APRIL 2017



AVERAGE MONTHLY VISITORS



INCREASED ALMOST 3-FOLD

SINCE PLAN CERTIFICATION IN DEC 2016

www.northeastoceandata.org

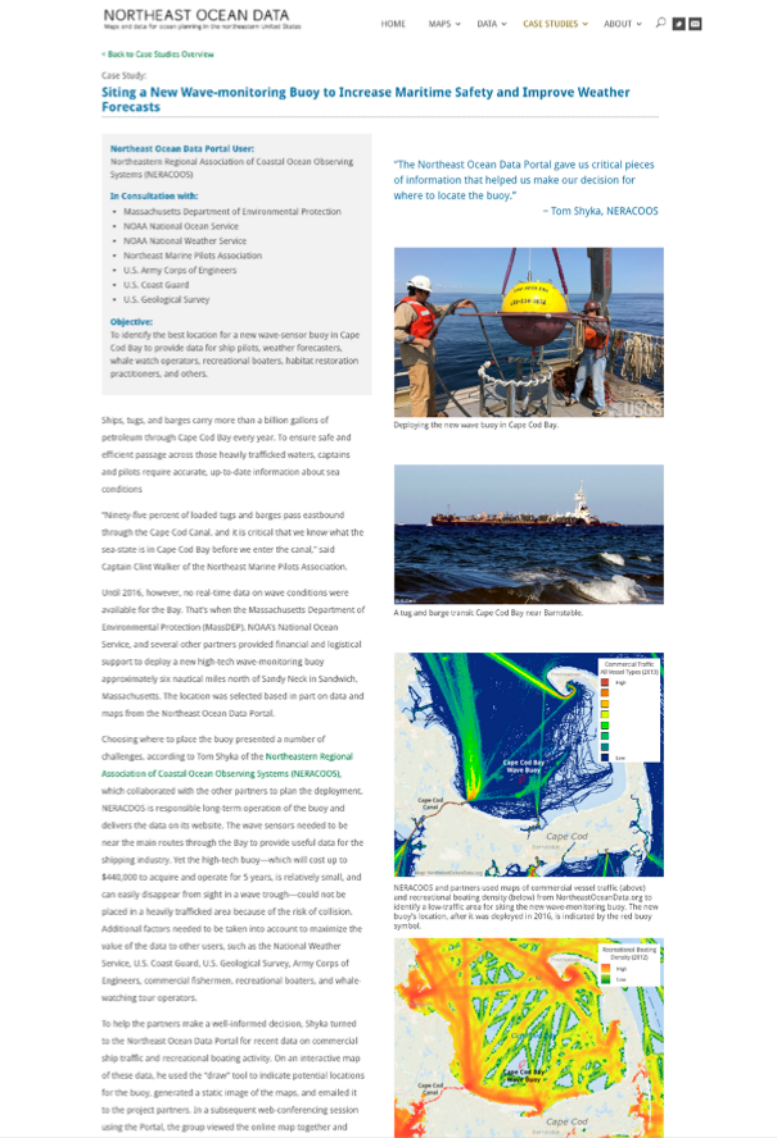
- Noticeable spike in Portal activity – hits and feedback
- Daily/weekly spikes potentially associated with agency announcements and events

NORTHEAST OCEAN DATA PORTAL

MAINTENANCE AND USE

NORTHEAST **OCEANPLAN**

- RPB and many others working on case studies
- Recent data releases provide opportunities and examples
  - NEFMC Draft Coral Management Area Alternatives
  - Long Island Sound fish trawl
- We want to know how you're using the Portal



NORTHEAST OCEAN DATA

HOME MAPS DATA CASE STUDIES ABOUT

< Back to Case Studies Overview

Case Study:

Siting a New Wave-monitoring Buoy to Increase Maritime Safety and Improve Weather Forecasts

Northeast Ocean Data Portal User:
Northeastern Regional Association of Coastal Ocean Observing Systems (NERACOOS)

In Consultation with:
- Massachusetts Department of Environmental Protection
- NOAA National Ocean Service
- NOAA National Weather Service
- Northeast Marine Pilots Association
- U.S. Army Corps of Engineers
- U.S. Coast Guard
- U.S. Geological Survey

Objective:
To identify the best location for a new wave-sensor buoy in Cape Cod Bay to provide data for ship pilots, weather forecasters, whale watch operators, recreational boaters, habitat restoration practitioners, and others.

"The Northeast Ocean Data Portal gave us critical pieces of information that helped us make our decision for where to locate the buoy."
– Tom Shyka, NERACOOS

Deploying the new wave buoy in Cape Cod Bay.

A tug and barge transit Cape Cod Bay near Barnstable.

NERACOOS and partners used maps of commercial vessel traffic (above) and recreational boating density (below) from NortheastOceanData.org to identify a low-traffic area for siting the new wave-monitoring buoy. The new buoy's location, after it was deployed in 2016, is indicated by the red buoy symbol.

Ships, tugs, and barges carry more than a billion gallons of petroleum through Cape Cod Bay every year. To ensure safe and efficient passage across those heavily trafficked waters, captains and pilots require accurate, up-to-date information about sea conditions.

"Ninety-five percent of loaded tugs and barges pass eastbound through the Cape Cod Canal, and it is critical that we know what the sea-state is in Cape Cod Bay before we enter the canal," said Captain Clint Walker of the Northeast Marine Pilots Association.

Until 2016, however, no real-time data on wave conditions were available for the Bay. That's when the Massachusetts Department of Environmental Protection (MassDEP), NOAA's National Ocean Service, and several other partners provided financial and logistical support to deploy a new high-tech wave-monitoring buoy approximately six nautical miles north of Sandy Neck in Sandwich, Massachusetts. The location was selected based in part on data and maps from the Northeast Ocean Data Portal.

Choosing where to place the buoy presented a number of challenges. According to Tom Shyka of the Northeastern Regional Association of Coastal Ocean Observing Systems (NERACOOS), which collaborated with the other partners to plan the deployment, NERACOOS is responsible long-term operation of the buoy and delivers the data on its website. The wave sensors needed to be near the main routes through the Bay to provide useful data for the shipping industry. Yet the high-tech buoy—which will cost up to $440,000 to acquire and operate for 5 years, is relatively small, and can easily disappear from sight in a wave trough—could not be placed in a heavily trafficked area because of the risk of collision. Additional factors needed to be taken into account to maximize the value of the data to other users, such as the National Weather Service, U.S. Coast Guard, U.S. Geological Survey, Army Corps of Engineers, commercial fishermen, recreational boaters, and whale-watching tour operators.

To help the partners make a well-informed decision, Shyka turned to the Northeast Ocean Data Portal for recent data on commercial ship traffic and recreational boating activity. On an interactive map of these data, he used the "draw" tool to indicate potential locations for the buoy, generated a static image of the maps, and emailed it to the project partners. In a subsequent web-conferencing session using the Portal, the group viewed the online map together and

NORTHEAST OCEAN DATA PORTAL

DATA UPDATES AND OUTREACH FOR OCEAN ACTIVITIES

NORTHEAST **OCEANPLAN**

- RPB entities responsible for relevant ocean activities and associated Portal data themes
- Coordination with Marine Cadastre
- Data requests, processing and draft product development underway
- Draft products for many ocean activities available this fall for review
- Let us know how we can work with you to conduct outreach to inform the development and review draft products

NORTHEAST OCEAN DATA PORTAL

DATA UPDATES AND OUTREACH FOR OCEAN ACTIVITIES

NORTHEAST OCEANPLAN

Commercial Fishing

Datasets: Vessel Monitoring System (VMS); Vessel Trip Reports (VTR); Fishery Management Areas

Relevant RPB organizations:
NOAA NMFS, NEFMC

Schedule & outreach:
- Data requests in progress
- Draft products by end of summer
- Stakeholder review in fall 2017
- Update Portal by end of the 2017

Aquaculture

Datasets: Permitted aquaculture areas; shellfish management areas

Relevant RPB organizations:
States, USACE, NOAA

Schedule & outreach:
- Data request to states in progress
- Draft products by summer
- Stakeholder/agency review in summer/fall 2017
- Update Portal by end of the 2017

NORTHEAST OCEAN DATA PORTAL

DATA UPDATES AND OUTREACH FOR OCEAN ACTIVITIES

NORTHEAST OCEANPLAN

Marine Transportation

Datasets: Vessel traffic (AIS); Navigation & Safety (Aids to Navigation, Pilot boarding, Anchorages, Safety and security zones)

Relevant RPB organizations:
USCG, DOT, NOAA

Schedule & outreach:

- Data requests in progress
- Draft products by end of summer
- Stakeholder review in fall 2017
- Update Portal by end of the 2017

National Security

Datasets: Military installations; testing and training ranges; danger and restricted areas

Relevant RPB organizations:
DOD, USCG

Schedule & outreach:
DOD reviewing data and will provide updates to Marine Cadastre for distribution

NORTHEAST OCEAN DATA PORTAL

DATA UPDATES AND OUTREACH FOR OCEAN ACTIVITIES

NORTHEAST OCEANPLAN

Cultural Resources

Datasets: National Register Sites; Wrecks; Submerged archeological resources

Relevant RPB organizations: DOI (NPS, BOEM), NOAA, States, Tribes

Schedule & outreach:

- National Register historic sites: data request to go out to the NPS and states this spring
- All other activities are TBD

Recreation

Datasets: Boating; whale watching; diving; coastal recreation areas

Relevant RPB organizations: States, NOAA, USCG

Schedule & outreach:

- Coastal recreation areas data layer to be updated by fall 2017
- Several potential options to review and update the footprint of a range of different recreational activities

NORTHEAST OCEAN DATA PORTAL

DATA UPDATES AND OUTREACH FOR OCEAN ACTIVITIES

NORTHEAST OCEANPLAN

Energy and Infrastructure

Datasets:
Planning area status (operational, permitted, lease areas, wind energy areas, demonstration sites)

Existing infrastructure (cables, pipelines, energy facilities and transmission lines)

Relevant RPB organizations:
BOEM, DOE, States

Schedule & outreach:
Updated theme available this spring

Offshore Sand Resources

Datasets: Potential sand resources from recent investigations

Relevant RPB organizations:
BOEM, States, USACE, NROC Sand Subcommittee

Schedule & outreach:
Layers to be added when investigations and database completed

NORTHEAST OCEAN DATA PORTAL

DATA UPDATES AND OUTREACH FOR OCEAN ACTIVITIES

NORTHEAST OCEANPLAN

Restoration

Datasets: Potential restoration projects

Relevant RPB organizations: States, USACE, Restoration Subcommittee

Schedule & outreach: Subcommittee to put out a call for potential projects

STAKEHOLDER UPDATES

NORTHEAST OCEANPLAN

NORTHEAST OCEAN DATA PORTAL
Updating Marine Life and Habitat Data

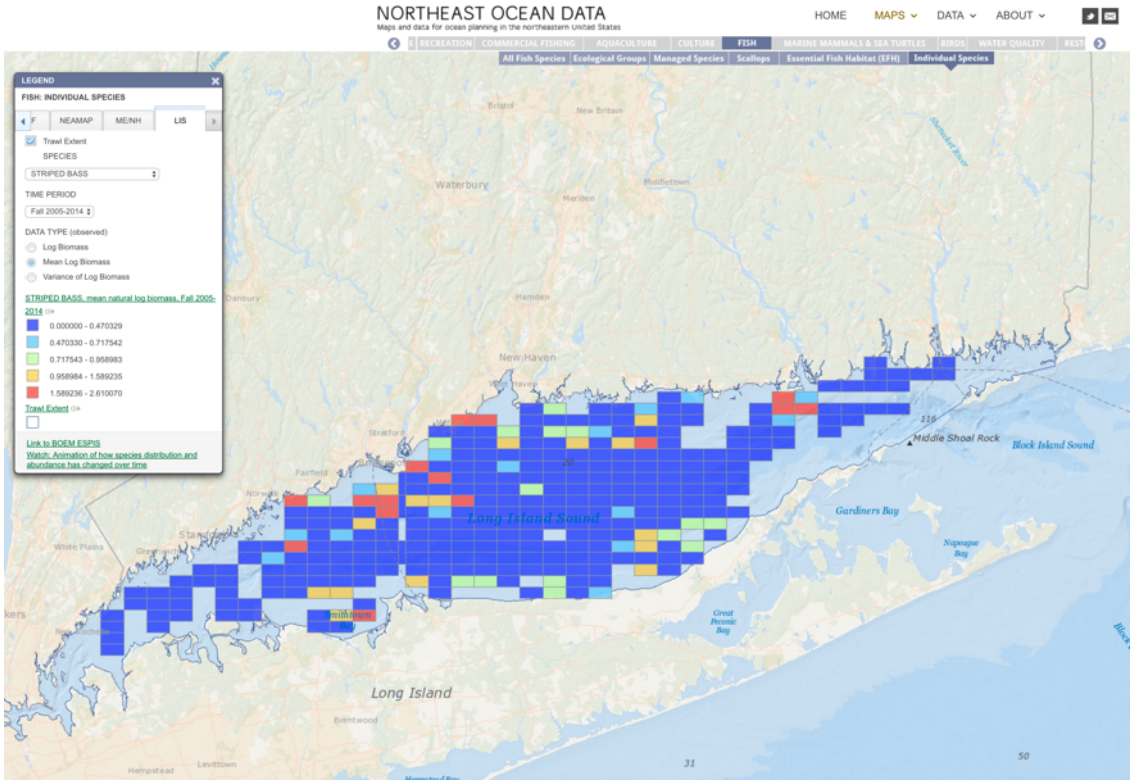
NORTHEAST OCEANPLAN

Marine Life and Habitat

Datasets	Relevant RPB organizations	Schedule & outreach
Fish trawl data for Long Island Sound	CT DEEP	Draft data March 2017; Release April 2017
Update marine mammals model	NOAA	Fall 2017
Sea turtles model	NOAA	Late fall 2017
Fish trawl data for coastal RI	RI DEM	TBD
Additional marine life ecological groups		TBD
Add VIMS data to scallop maps	NOAA	TBD
Incorporate additional avian data from USFWS Mid-winter Waterfowl Survey, SHARP, ESI, telemetry data for mammals, birds, fish, bats	USFWS, BOEM, NOAA	TBD

NORTHEAST OCEAN DATA PORTAL
Updating Marine Life and Habitat Data

NORTHEAST OCEANPLAN



Long Island Sound Fish Trawl

- 64 species
- 192 new layers
- Similar format as MDAT fish data
- No summary products (yet?)

NORTHEAST OCEAN DATA PORTAL
Updating Marine Life and Habitat Data

NORTHEAST OCEANPLAN

Marine Life and Habitat

Datasets	Relevant RPB organizations	Schedule & outreach
Update benthic habitat maps	NOAA, BOEM	TBD
Maps characterizing persistent phytoplankton bloom event	NOAA	Data obtained early 2017; maps will be added to IEA Data Evaluation this summer
Update submerged aquatic vegetation maps	States	Some updated data obtained early 2017; May need to re-convene eelgrass working group; maps to be updated by summer 2017

NORTHEAST OCEAN DATA PORTAL
Development and review of draft Important Ecological Area (IEA) data products

NORTHEAST OCEANPLAN

Habitat areas and species, guilds, or communities critical to ecosystem function, resilience and recovery. These areas are further defined and identified by the following **five components**:

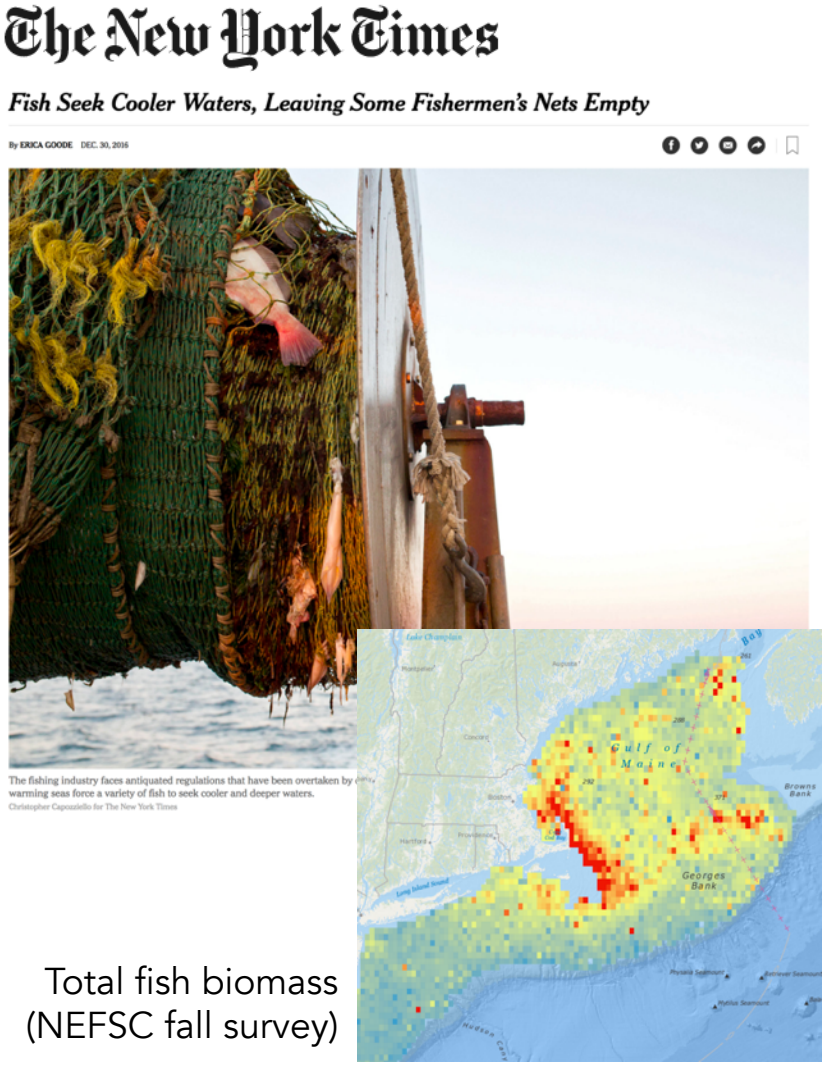
1. Areas of high productivity
2. Areas of high biodiversity
3. Areas of high species abundance including areas of spawning, breeding, feeding, and migratory routes
4. Areas of vulnerable marine resources
5. Areas of rare marine resources

NORTHEAST OCEAN DATA PORTAL
Development and review of draft Important Ecological Area (IEA) data products

NORTHEAST OCEANPLAN

THE FIVE COMPONENTS ARE:

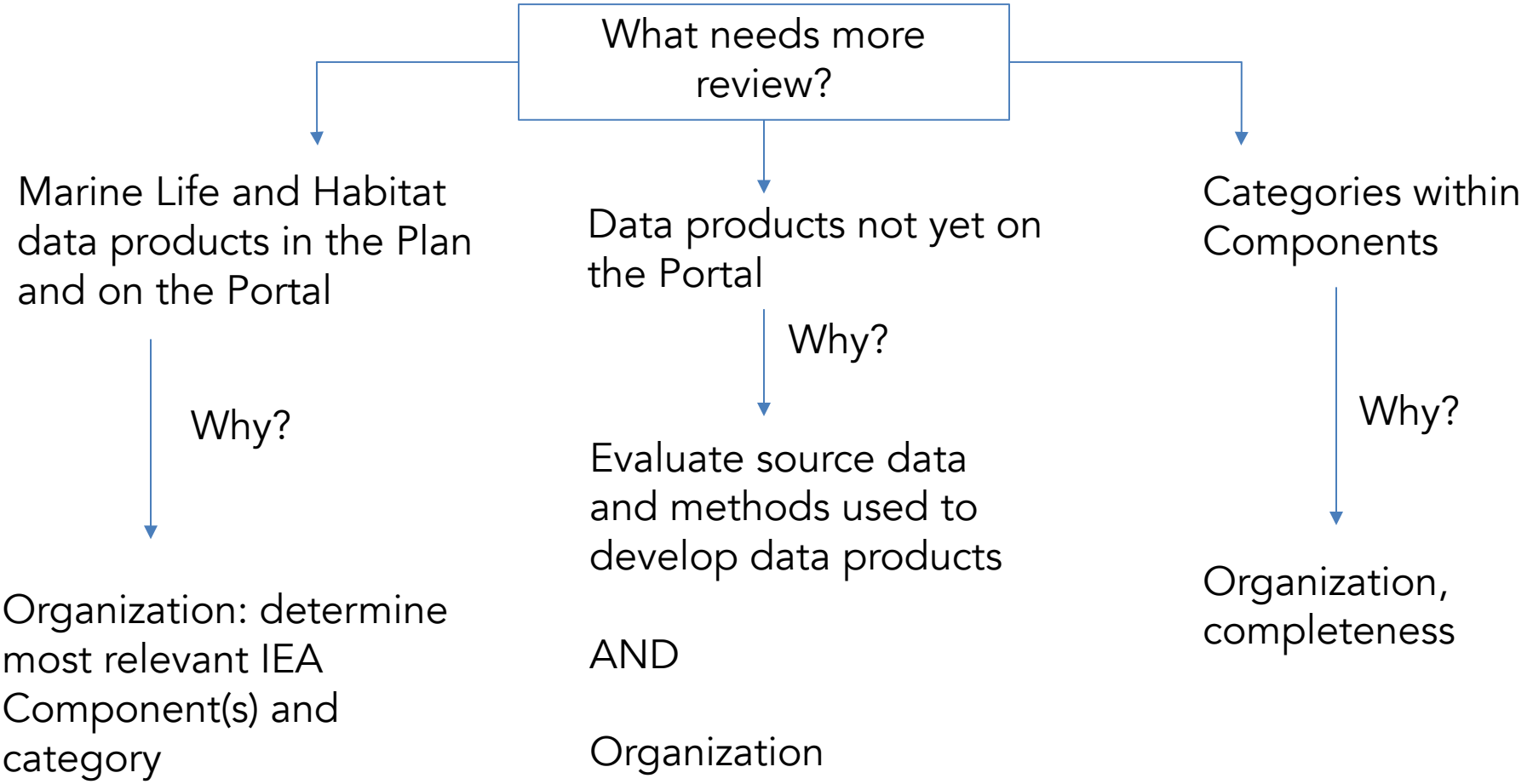
- An extension of the Marine Life and Habitat data on the NE Ocean Data Portal
- Eventually a resource of 50-100 peer-reviewed and vetted datasets that represent ecologically important patterns and help identify data gaps
- More than habitat and species distribution/abundance, in that they also characterize ecosystem processes and functions
- Easily updated with new data and information, just like all of the data on the NE Ocean Data Portal



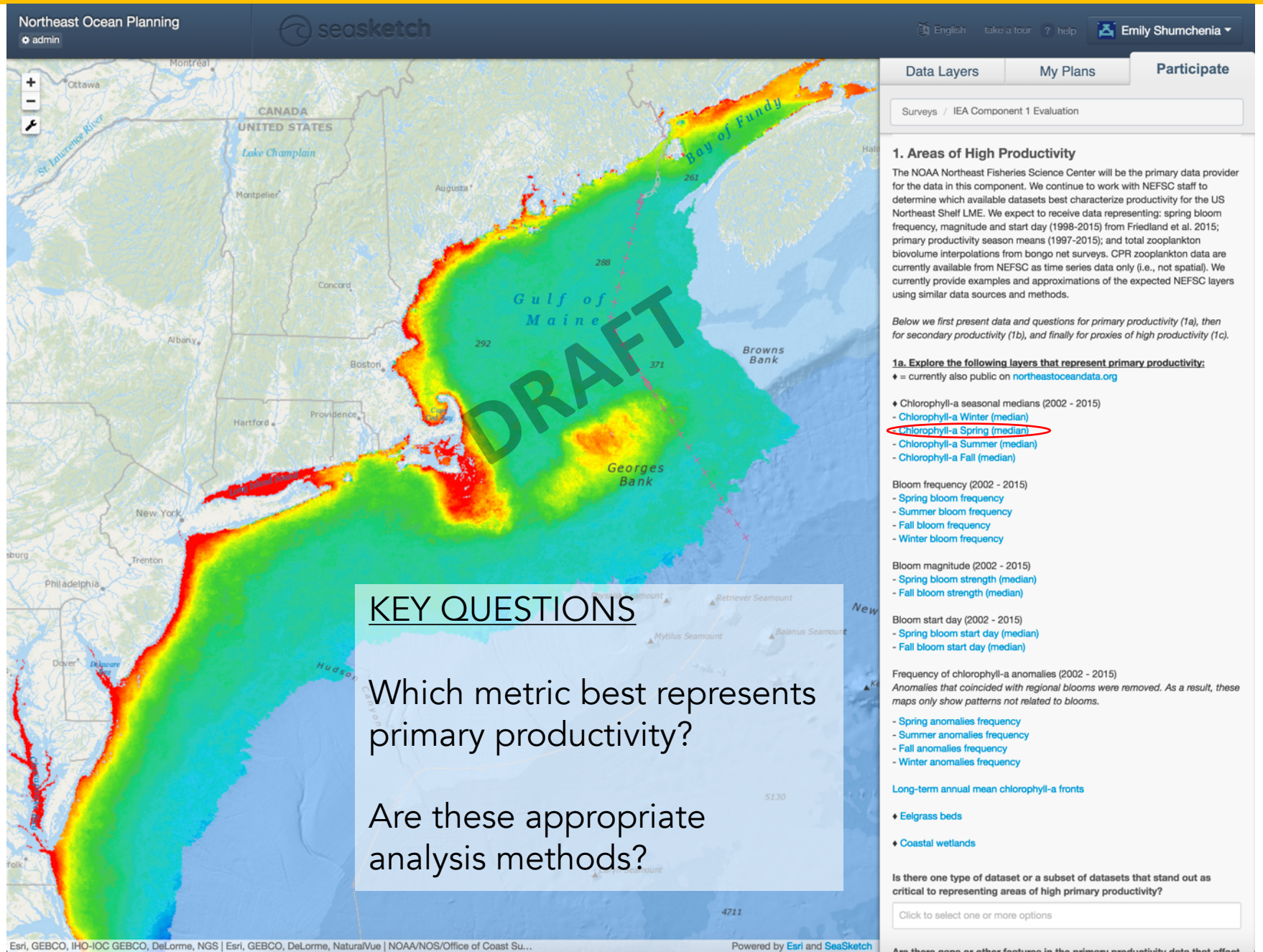
Total fish biomass (NEFSC fall survey)

NORTHEAST OCEAN DATA PORTAL
Development and review of draft Important Ecological Area (IEA) data products

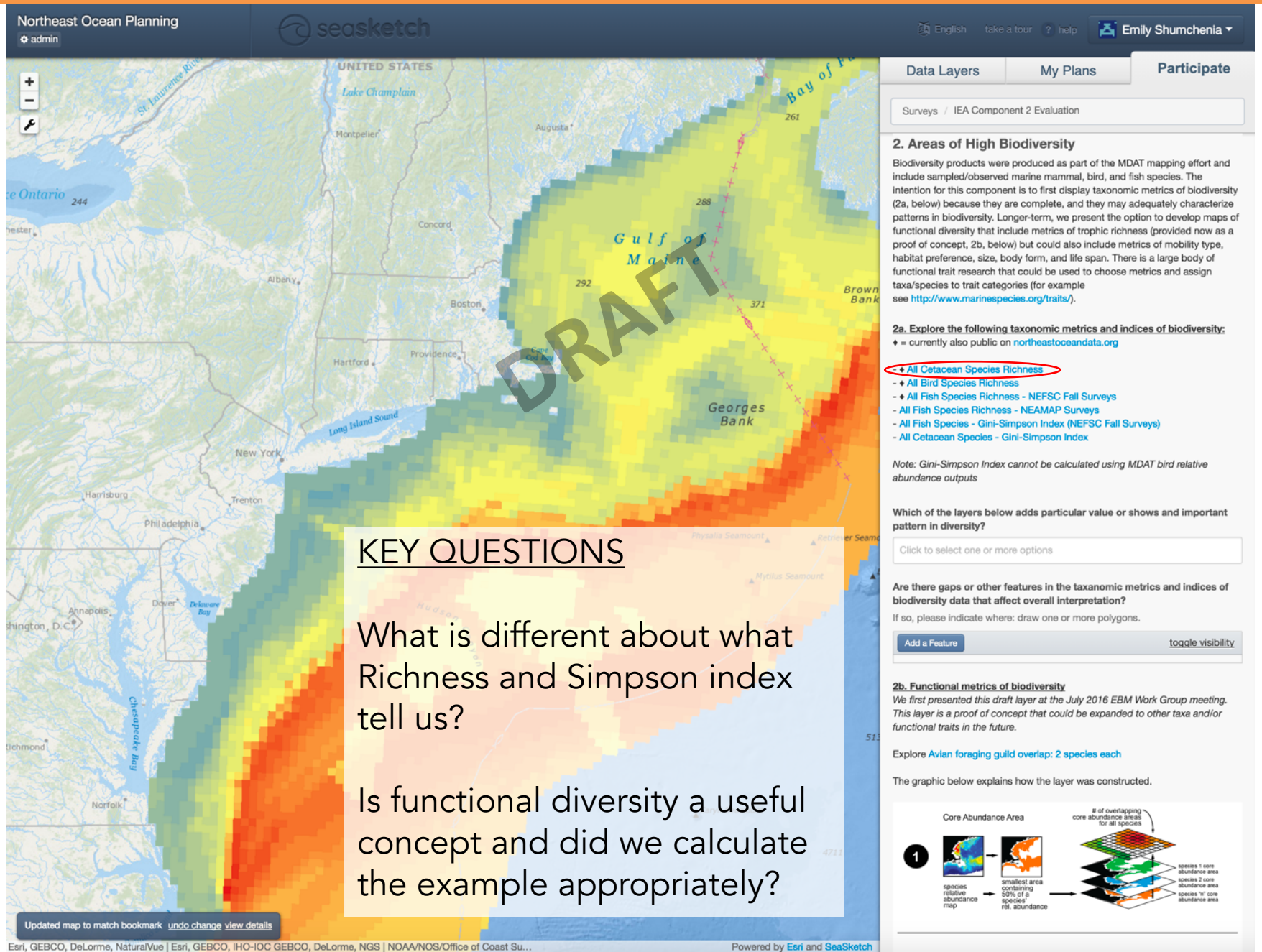
NORTHEAST OCEANPLAN



Component 1: Areas of high productivity – Example: Chlorophyll-a Spring (median)



Component 2: Areas of high biodiversity – Example: All cetacean species richness

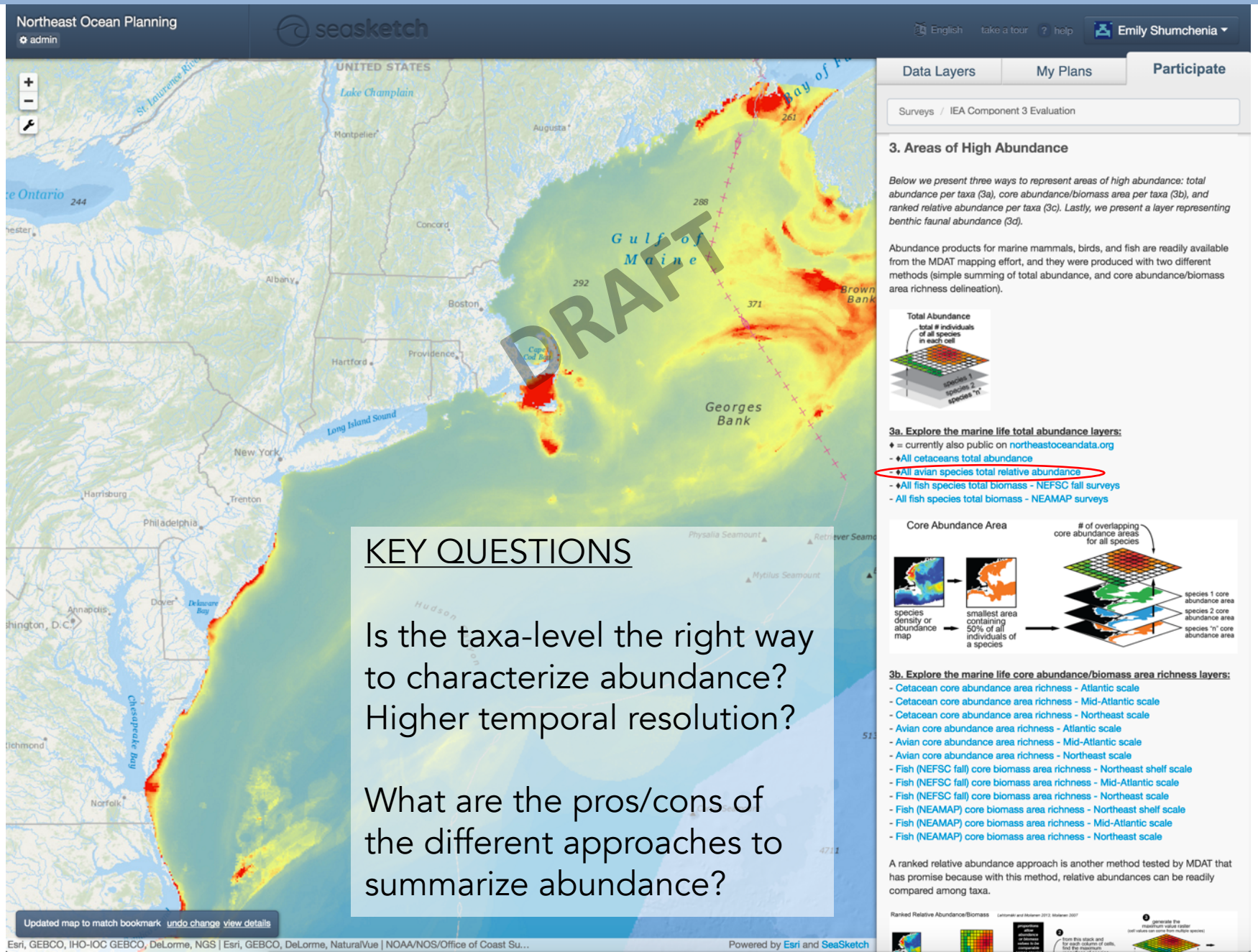


KEY QUESTIONS

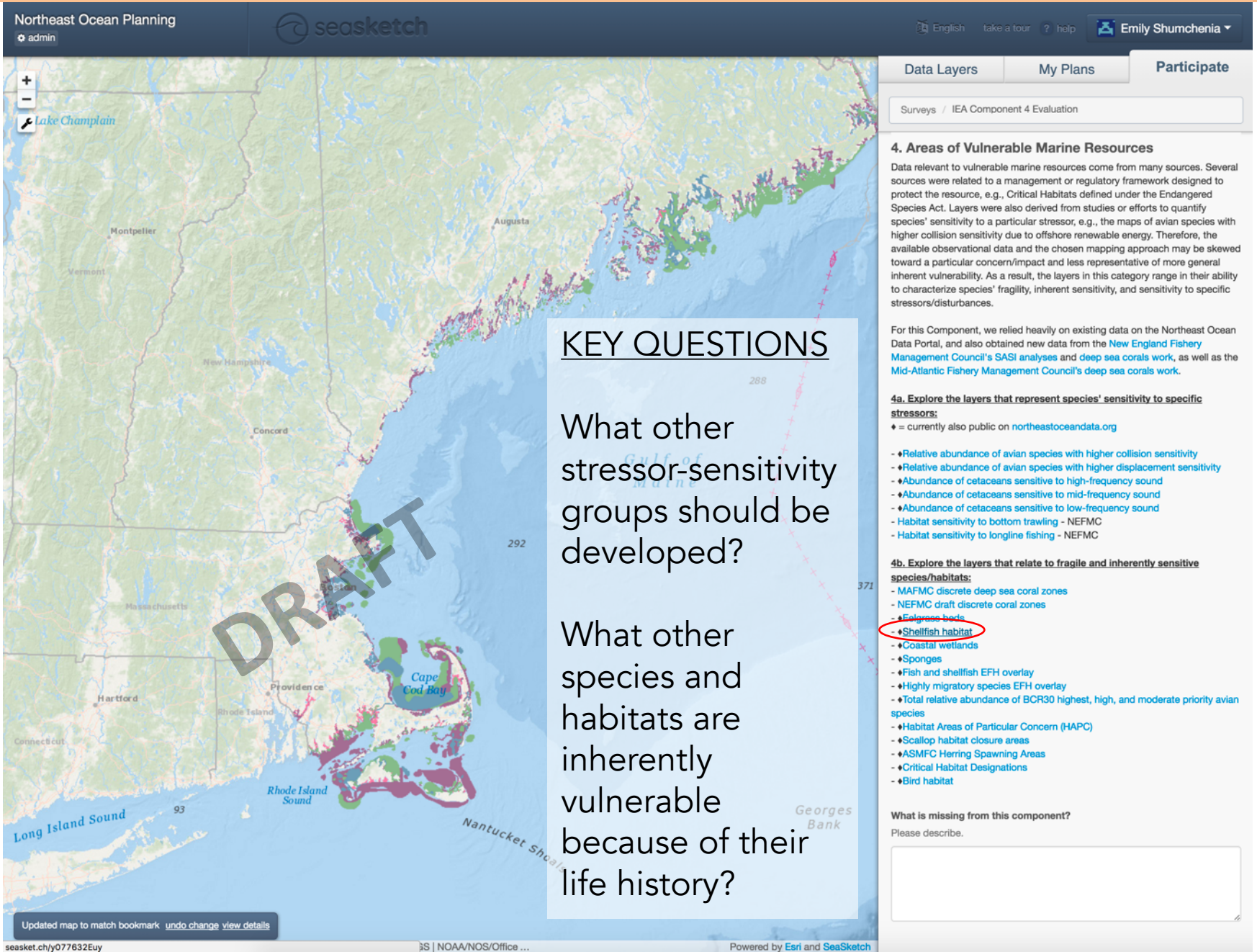
What is different about what Richness and Simpson index tell us?

Is functional diversity a useful concept and did we calculate the example appropriately?

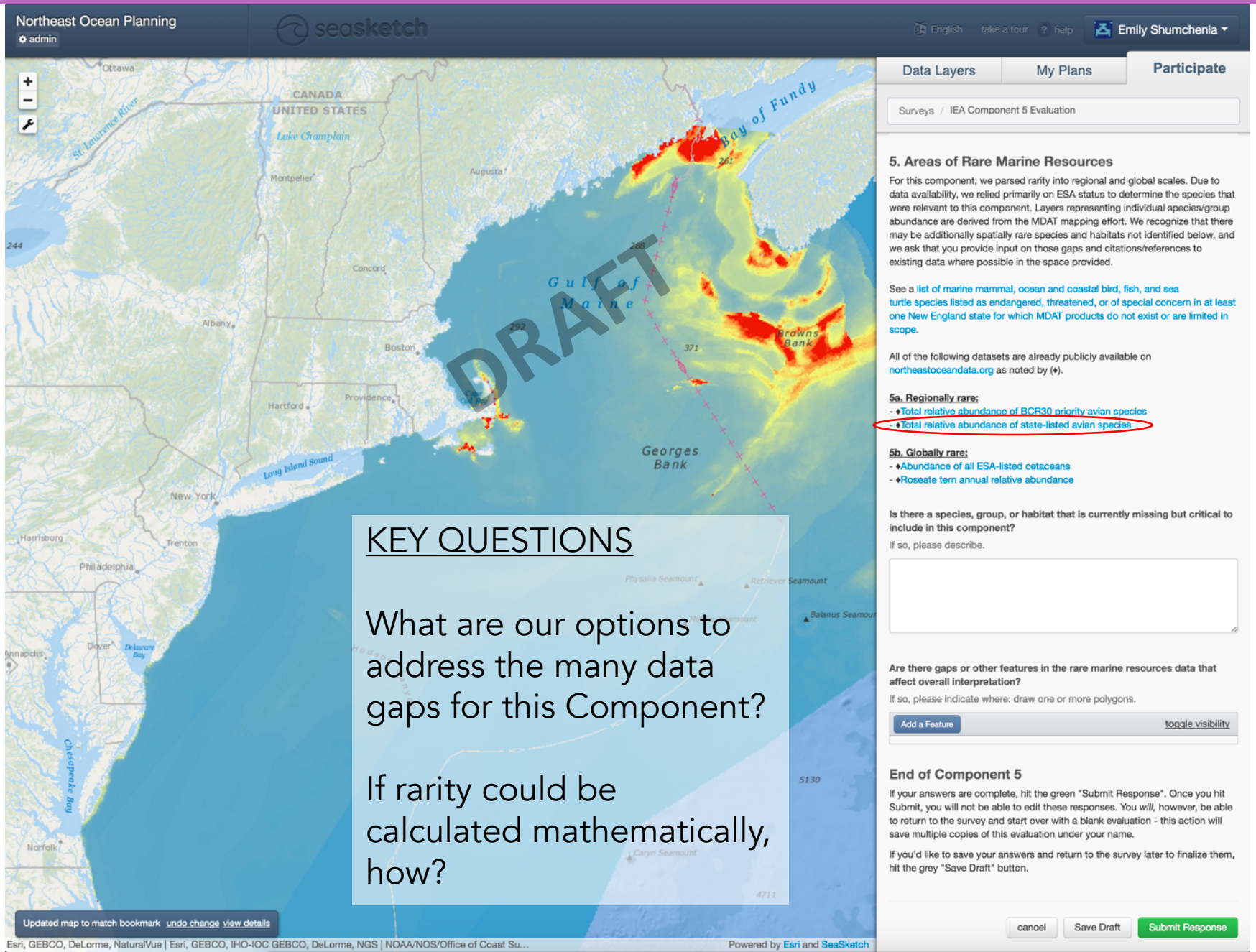
Component 3: Areas of high abundance – Example: All avian species rel. abundance



Component 4: Areas of vulnerable marine resources – Example: Shellfish habitat



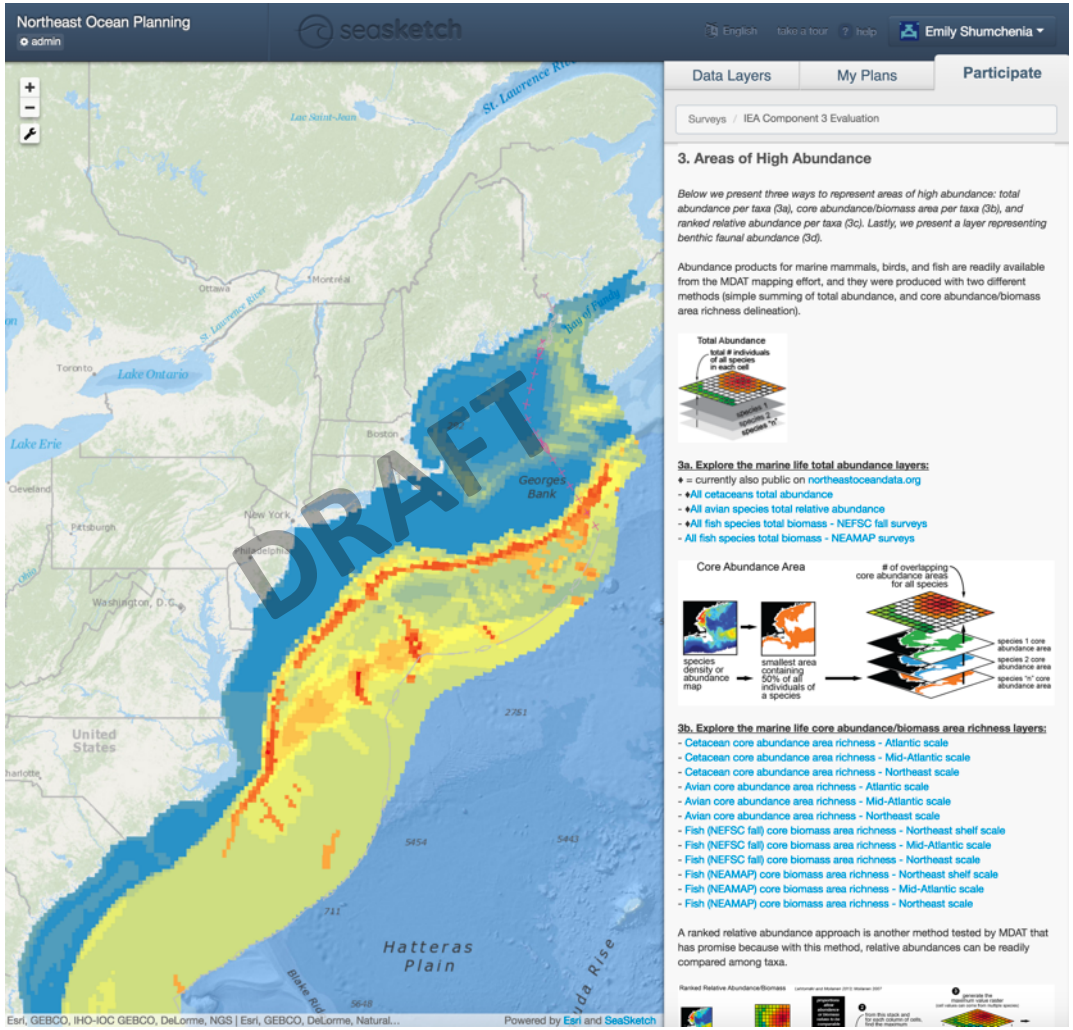
Component 5: Areas of rare marine resources –
Example: Total relative abundance of Northeast state-listed avian species



NORTHEAST OCEAN DATA PORTAL
Development and review of draft Important Ecological Area (IEA) data products

NORTHEAST OCEANPLAN

- In the process of obtaining input
- Need more time to learn about data and get feedback – through June
- Incorporate new models, revise products, Fall 2017



NORTHEAST OCEAN DATA PORTAL
Development and review of draft Important Ecological Area (IEA) data products

NORTHEAST OCEANPLAN

QUESTIONS?

NORTHEAST OCEANPLAN

What is Monitoring & Evaluation?

NORTHEAST OCEAN PLAN establishes two tracks

Plan Performance Monitoring

Measure progress toward implementing the Plan's actions and achieving the Plan's goals and objectives

- Conditions before Plan
- Track implementation
- Obtain public input

Ecosystem Health Monitoring & Evaluation

Measure changes in the ecosystem, including human activities, to identify issues that may require management attention

- Baseline
- Indicators
- Obtain public input

Inform amendments and updates to the Plan

PLAN PERFORMANCE MONITORING

NORTHEAST OCEANPLAN

- RPB has developed an initial draft approach for monitoring plan performance
- Draft approach summarizes principles from NE Ocean Plan
    - Relate plan performance indicators to Plan outcomes, goals, objectives, and actions (or implementation activities)
    - Establish baseline
    - Balance specificity with availability of information
    - Establish fewer more effective indicators rather than many indicators
    - Obtain public input
    - Ensure indicators inform whether Plan amendments or updates are necessary

PLAN PERFORMANCE MONITORING

NORTHEAST OCEANPLAN

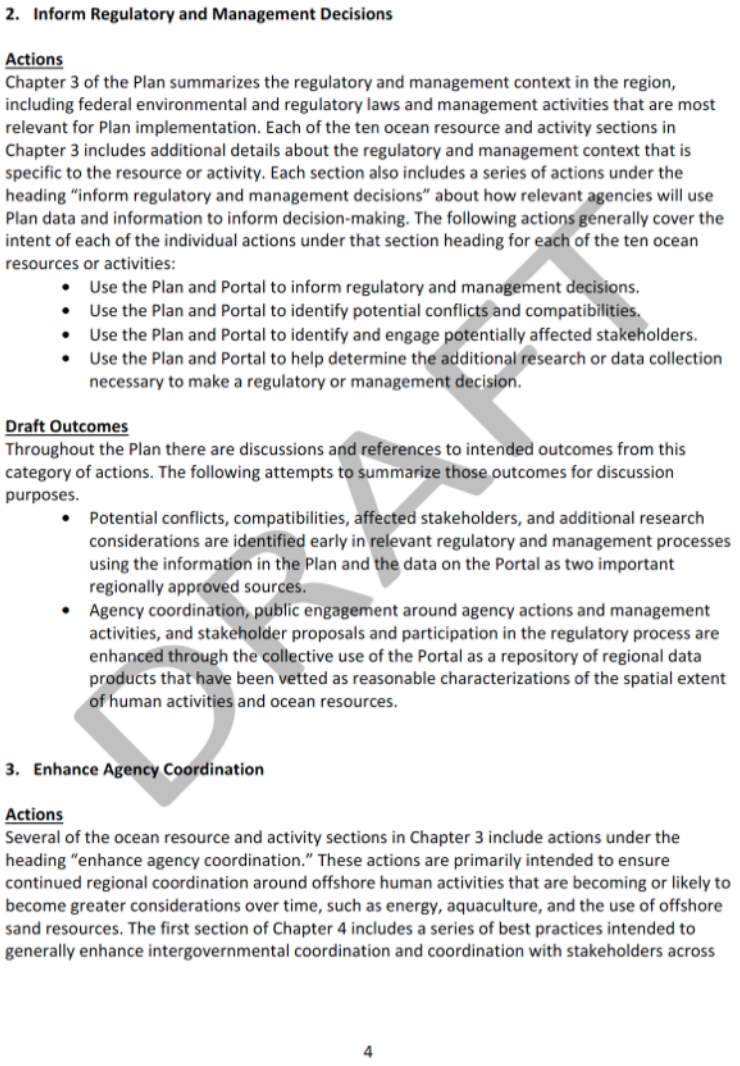
- Draft approach groups plan actions into **four major categories**:
    - Maintain and update data (Chapter 3)
    - Inform regulatory and management decisions (Chapter 3)
    - Enhance agency coordination (Chapter 3 and 4)
    - Advance regional science and research priorities (Chapter 5)

PLAN PERFORMANCE MONITORING

NORTHEAST OCEANPLAN

Each of the four major action categories:

- Identifies relevant actions from the Plan
- Includes draft outcomes either directly quoted or derived from the Plan
- Identifies relevant goals and objectives



2. Inform Regulatory and Management Decisions

Actions

Chapter 3 of the Plan summarizes the regulatory and management context in the region, including federal environmental and regulatory laws and management activities that are most relevant for Plan implementation. Each of the ten ocean resource and activity sections in Chapter 3 includes additional details about the regulatory and management context that is specific to the resource or activity. Each section also includes a series of actions under the heading "inform regulatory and management decisions" about how relevant agencies will use Plan data and information to inform decision-making. The following actions generally cover the intent of each of the individual actions under that section heading for each of the ten ocean resources or activities:

- Use the Plan and Portal to inform regulatory and management decisions.
- Use the Plan and Portal to identify potential conflicts and compatibilities.
- Use the Plan and Portal to identify and engage potentially affected stakeholders.
- Use the Plan and Portal to help determine the additional research or data collection necessary to make a regulatory or management decision.

Draft Outcomes

Throughout the Plan there are discussions and references to intended outcomes from this category of actions. The following attempts to summarize those outcomes for discussion purposes.

- Potential conflicts, compatibilities, affected stakeholders, and additional research considerations are identified early in relevant regulatory and management processes using the information in the Plan and the data on the Portal as two important regionally approved sources.
- Agency coordination, public engagement around agency actions and management activities, and stakeholder proposals and participation in the regulatory process are enhanced through the collective use of the Portal as a repository of regional data products that have been vetted as reasonable characterizations of the spatial extent of human activities and ocean resources.

3. Enhance Agency Coordination

Actions

Several of the ocean resource and activity sections in Chapter 3 include actions under the heading "enhance agency coordination." These actions are primarily intended to ensure continued regional coordination around offshore human activities that are becoming or likely to become greater considerations over time, such as energy, aquaculture, and the use of offshore sand resources. The first section of Chapter 4 includes a series of best practices intended to generally enhance intergovernmental coordination and coordination with stakeholders across

PLAN PERFORMANCE MONITORING

NORTHEAST OCEANPLAN

Relevant Goals and Objectives

The following table is an initial attempt at linking actions from the 2016 Northeast Ocean Plan to the original planning goals and objectives from the *Framework for Ocean Planning in the Northeast United States* by identifying the planning objectives that are primarily relevant to each of the four previously described plan action categories.

GOAL	OBJECTIVE	Plan Action Categories			
		1. Maintain and Update Data	2. Inform Reg. and Mgmt. Decisions	3. Enhance Agency Coord.	4. Advance Science and Research Priorities
Healthy Ocean and Coastal Ecosystems	1. Characterize the Region's Ecosystem, Economy, and Cultural Resources	X			X
	2. Identify and Support the Existing Non-regulatory Opportunities to Work Toward Conserving, Restoring and Maintaining Healthy Ecosystems			X	
	3. Produce a Regional Ocean Science Plan that Prioritizes Ocean Science and Data Needs for the Region for the Next Five Years	X		X	X
Effective Decision-making	1. Enhance Inter-Agency Coordination		X	X	X
	2. Implement Specific Actions to Enhance Informed Public Input in Decision-making		X	X	
	3. Incorporate Maps and Other Products into Existing Agency Decision-making Processes		X	X	X
	4. Improve Respect for the Customs and Traditions of Indigenous Peoples in Decision-making Processes			X	X
	5. Improve coordination with local communities in decision-making processes			X	
Compatibility Among Past, Current and Future Ocean Uses	1. Increase Understanding of Past, Current and Future Interactions Among Ocean Uses and the Ocean and Coastal Ecosystem	X	X	X	X
	2. Ensure Regional Issues are Incorporated in Ongoing Efforts to Assess New and Existing Human Activities			X	X

PLAN PERFORMANCE MONITORING

NORTHEAST OCEANPLAN

Potential Next Steps

- Organize RPB around four major action categories
- Category> Individual Actions> Intended Outcomes> Indicators> Baseline> Agency Reporting
- Communication options
- Determine whether and how each indicator can inform Plan amendments and updates and/or revisions to Plan goals/objectives/actions