

Draft Data Updates

Nick Napoli

On behalf of MARCO, the Mid-Atlantic Regional
Planning Body, and the Mid-Atlantic Ocean Data Portal
Team

October 10, 2017



Overview

1. Draft Ecologically Rich Area (ERA) data development process
2. Draft 2015-2016 Vessel Monitoring System (VMS) data products
3. Draft Communities at Sea (CAS) data products

Ecologically Rich Areas

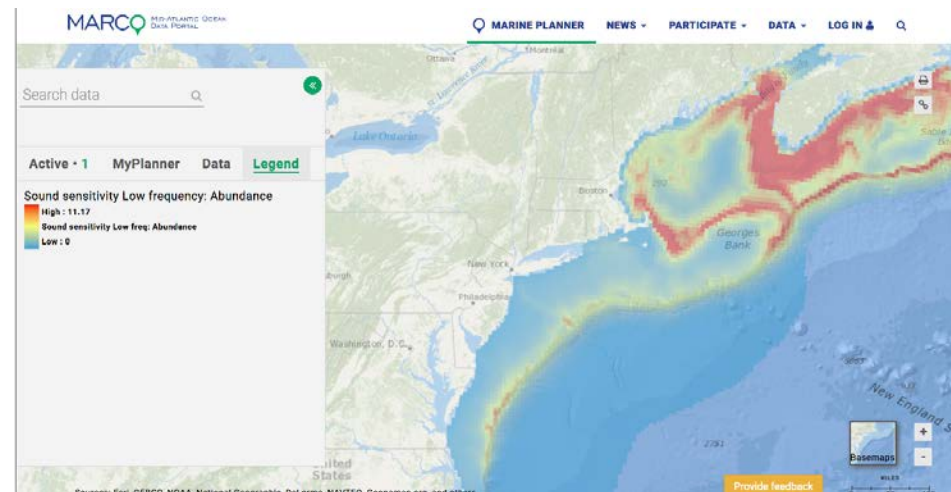
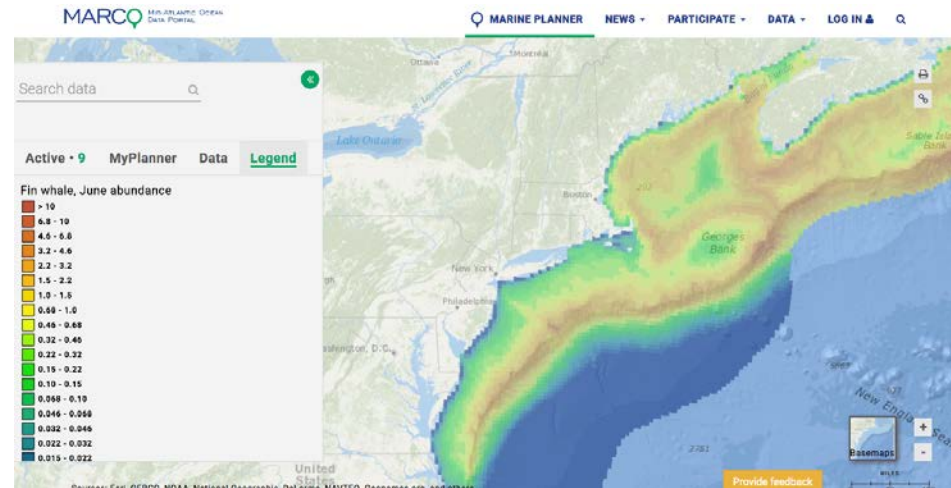
- Mid-Atlantic Regional Ocean Action Plan (MidA OAP) and subsequent deliberations establishes ERAs as containing one or more of the following five components:
 - high productivity,
 - high biological diversity,
 - high species abundance,
 - vulnerable marine resources, and
 - rare marine resources
- It further considers whether those ERAs could be classified as fixed, clustered, ephemeral, or dynamic

Ecologically Rich Areas

Marine life, habitat, & ERA data development process:

2015-2016:

- Thousands of individual marine life and habitat layers (available via the MidA Portal)
- Hundreds of species group products to inform specific questions – regulatory, ecological, vulnerability (available via the MidA Portal)

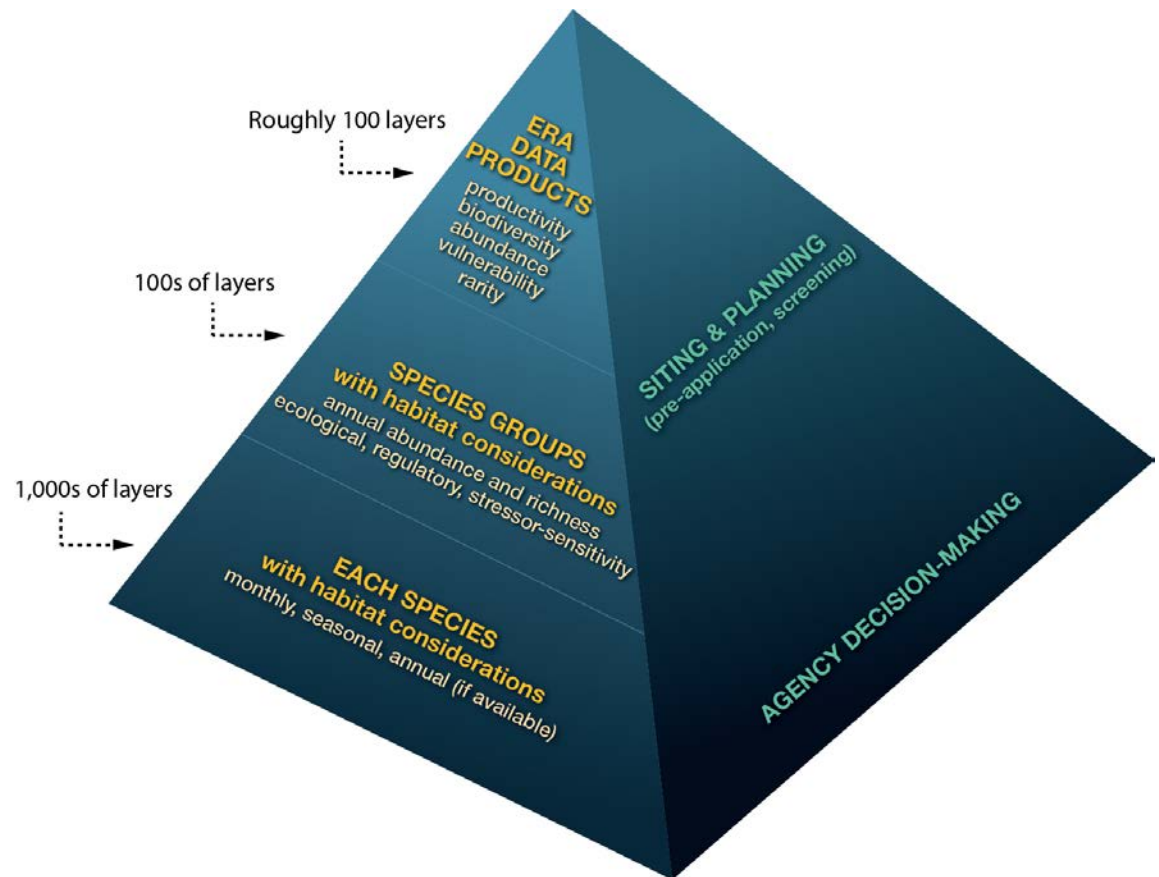


Ecologically Rich Areas

Marine life, habitat, & ERA data development process:

Since late 2016:

Further synthesizing
data into ~100 layers
that illustrate each of
the five ERA
components



Ecologically Rich Areas

Marine life, habitat, & ERA data development process:

May 2017: ~100 draft layers and methods illustrating ERA components released for review via:

- Public workshop
- Multiple webinars
- Individual calls
- Online mapping and evaluation tool called “SeaSketch”

September 2017: Feedback summarized from over 100 reviewers from RPB agencies, industry, academia, non-governmental organizations

Ecologically Rich Areas

Marine life, habitat, & ERA data development process:

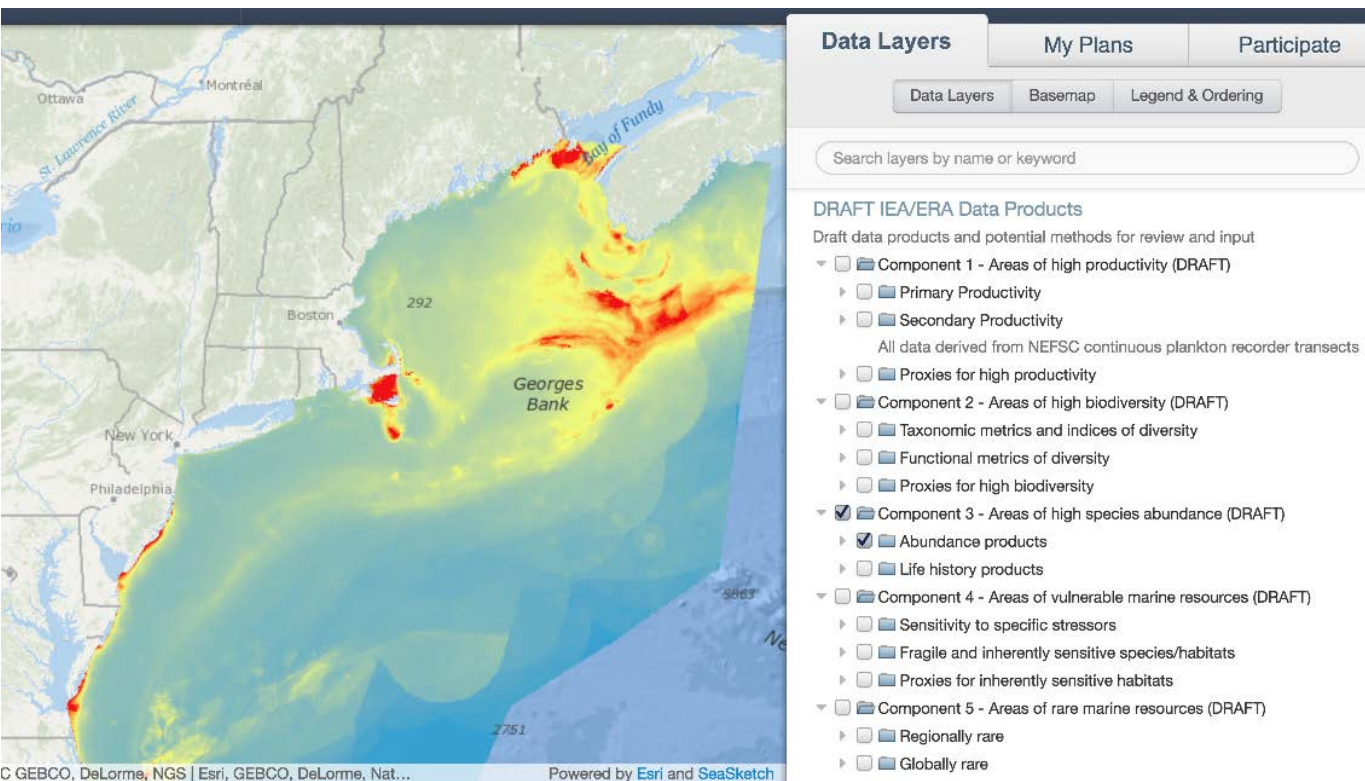
November 2, 2017, ERA Workshop:

- Present feedback from data/methods review
- Review a revised set of data layers per each of the five components
- Obtain feedback on key remaining question(s) per component
- Consider options for further synthesis into fewer data layers

Ecologically Rich Areas

Come see us to
review the data
under each
component

Questions?

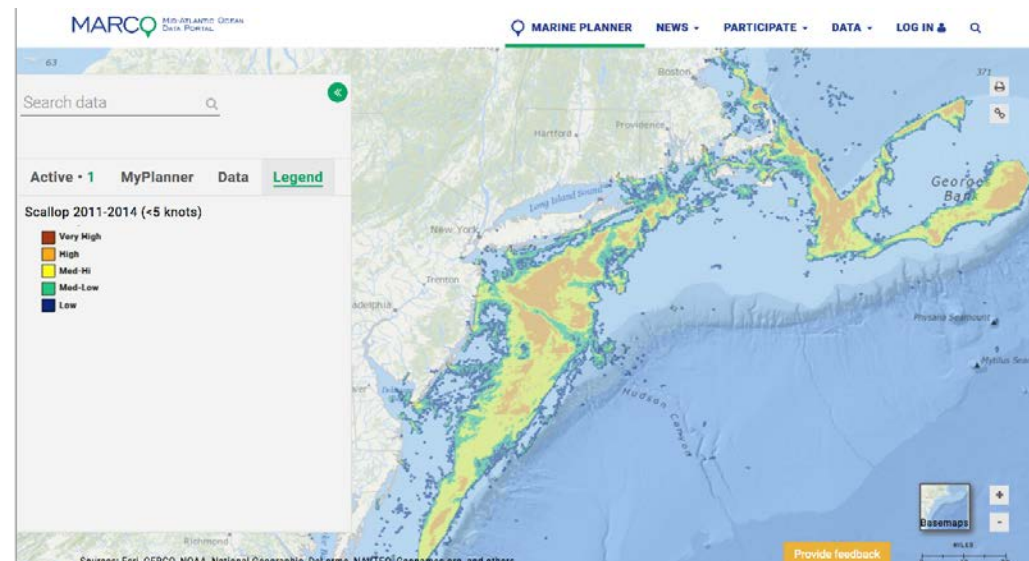
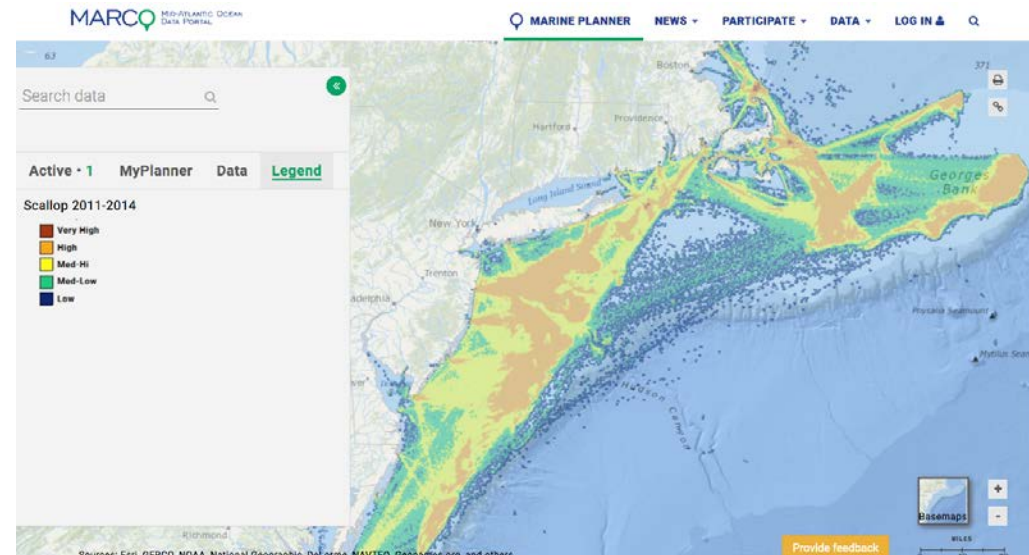


Vessel Monitoring System

Publicly Available Data:

2006-2010; 2011-2014
w/ speed thresholds:

- Multispecies
- Monkfish
- Herring
- Scallop
- Surfclam/Ocean Quahog
- Squid (just 2014)
- Mackerel (just 2014)

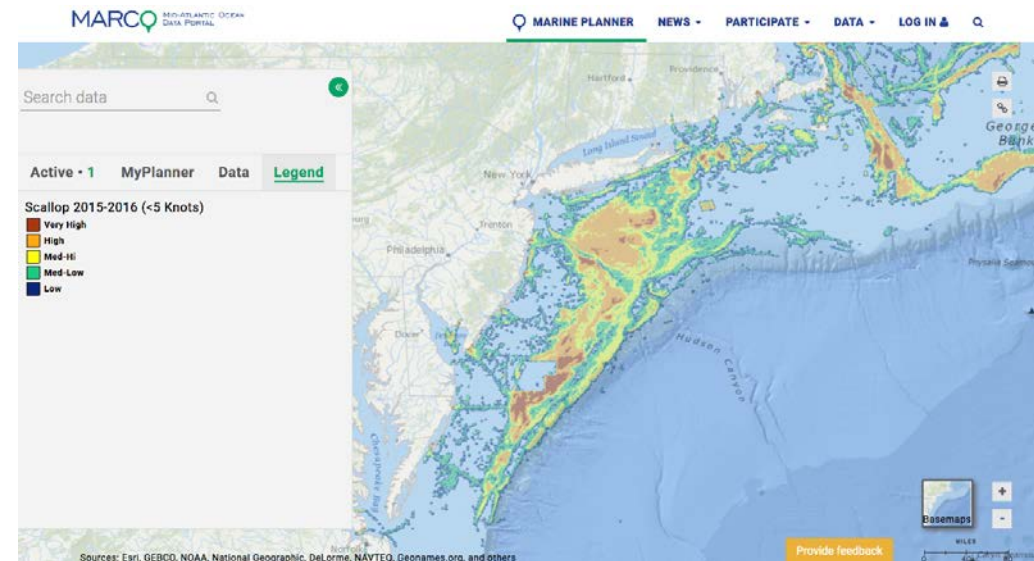
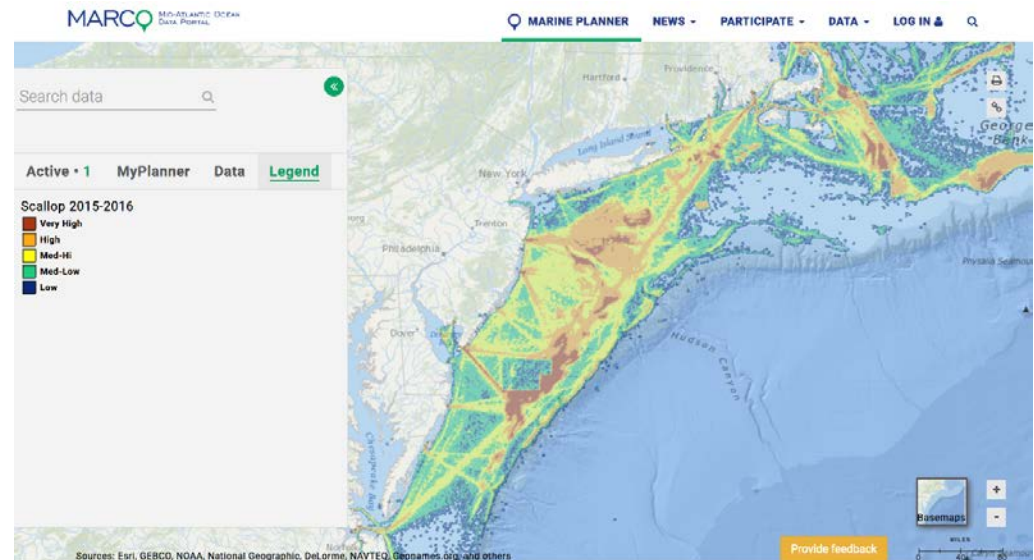


Vessel Monitoring System

Draft Data for Review:

2015-2016 w/ speed thresholds:

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Vessel Monitoring System

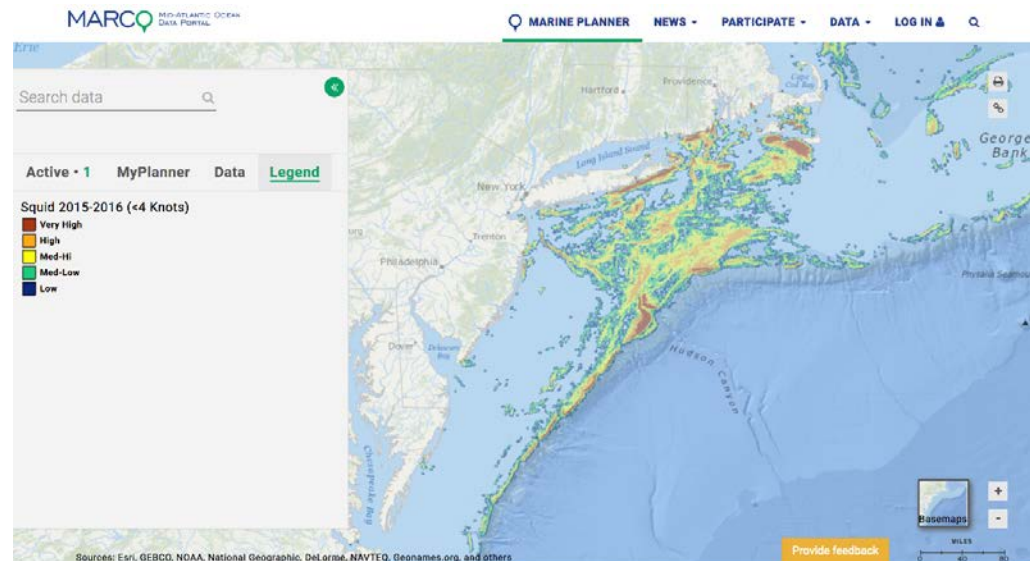
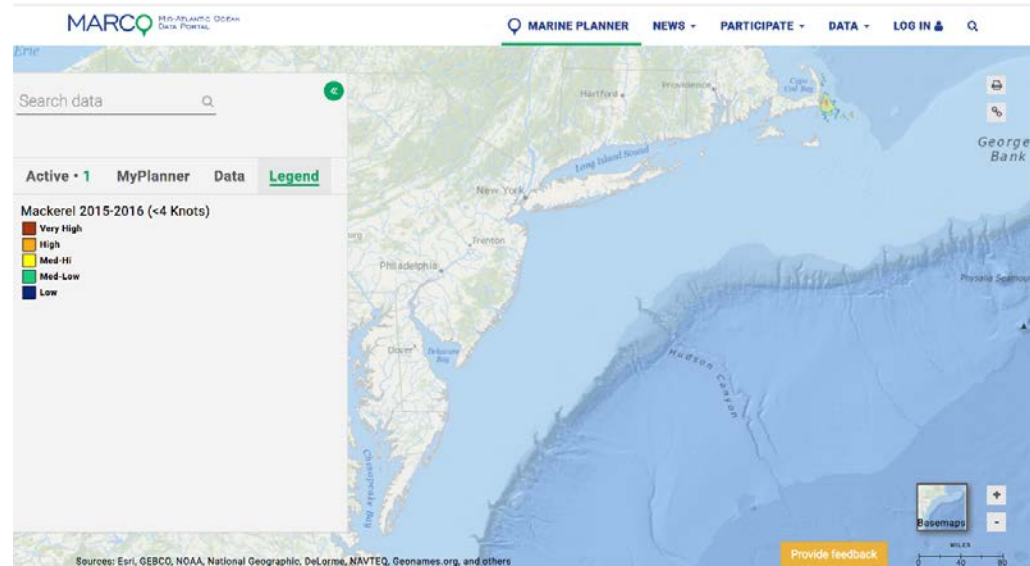
Draft Data for Review:

How well does it represent the fishery?

Any inaccuracies/caveats?

How can it be used?

Who should we engage to review it?



Communities at Sea

Overview:

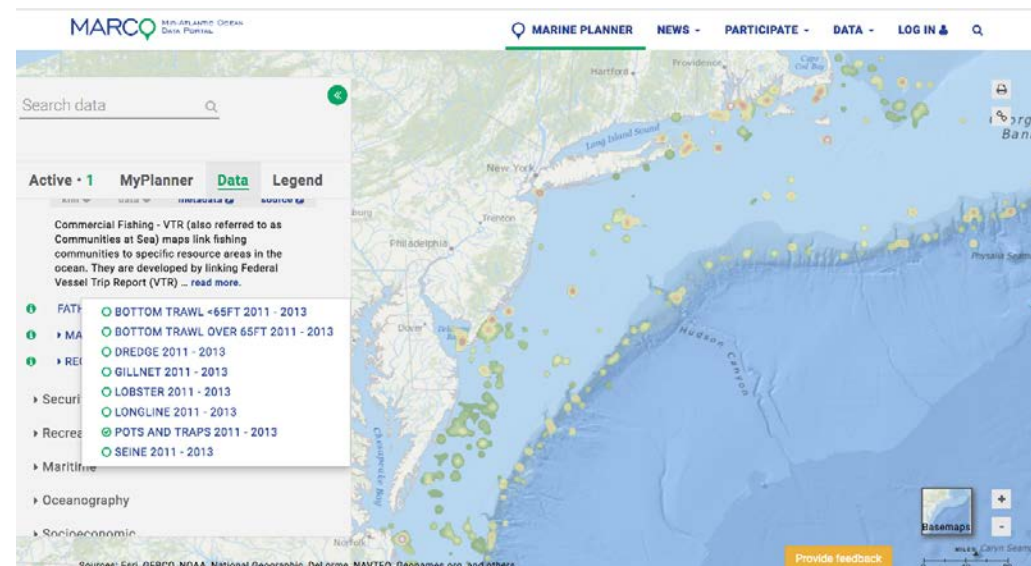
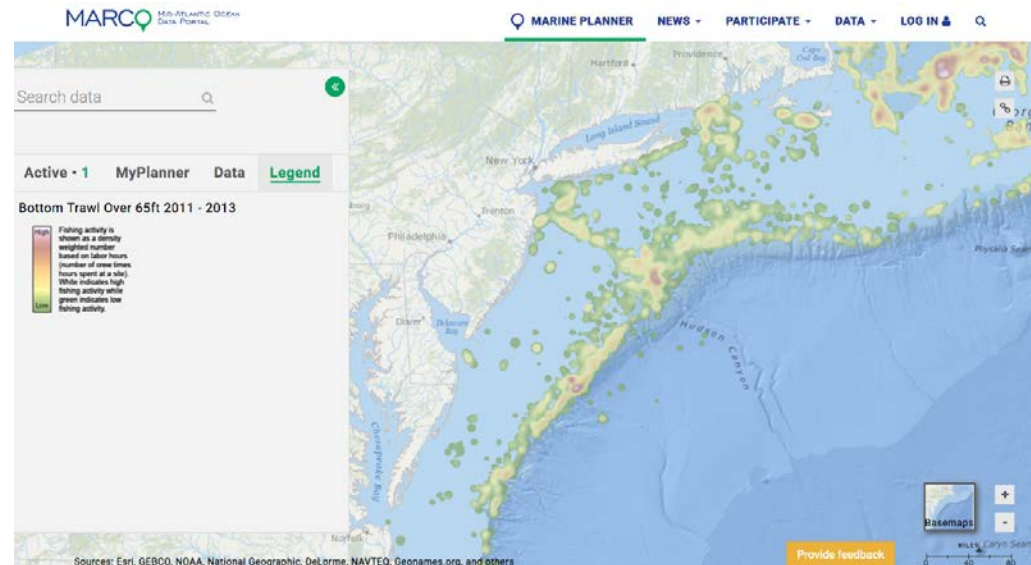
- Methodology developed by Kevin St. Martin, Rutgers
- Implemented by Jim Trimble, Rutgers
- Links VTRs to vessel permit data
- Enables gear type and community combinations
- Outputs density maps representing labor hours

Communities at Sea

Publicly Available:

2011-2013 Density Maps

- Bottom Trawl <65'
- Bottom Trawl >65'
- Dredge
- Gillnet
- Lobster
- Longline
- Pots and Traps
- Seine



Communities at Sea

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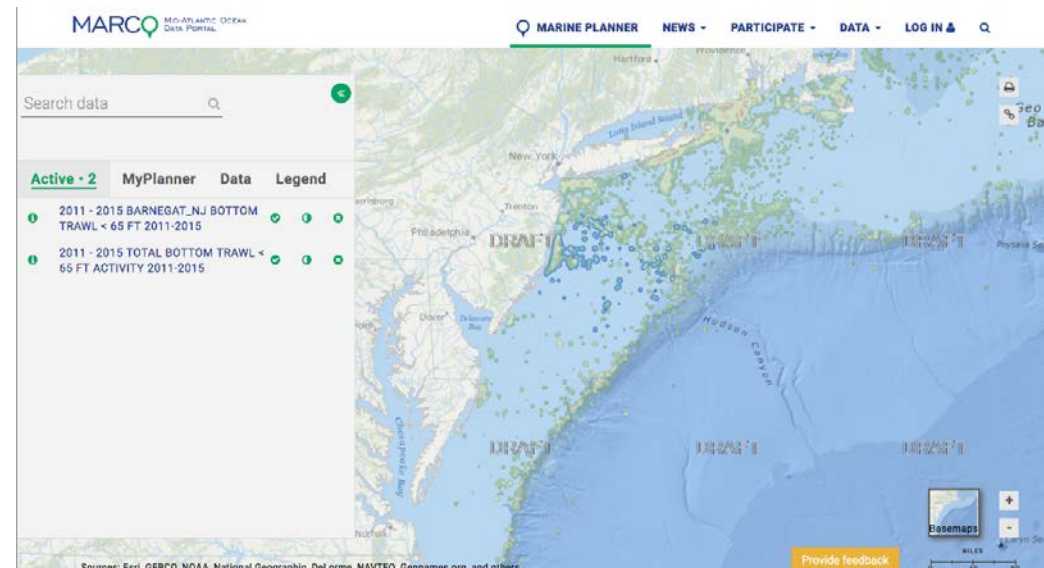
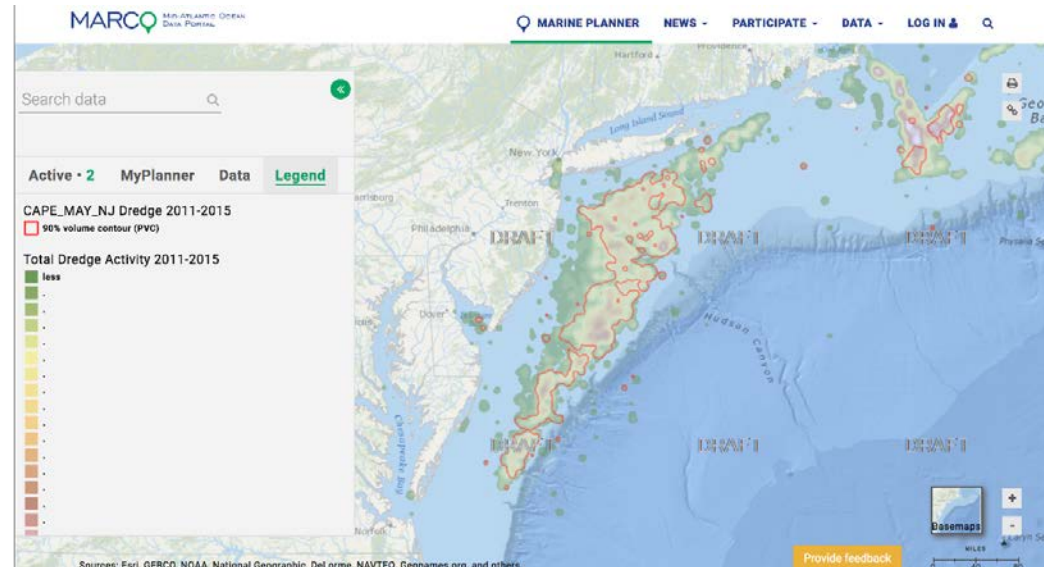
1996-2000

2001-2005

2006-2010

2011-2015

- Total effort by gear type
- Polygons representing 90% of the effort from each fishing port for each gear type



Communities at Sea

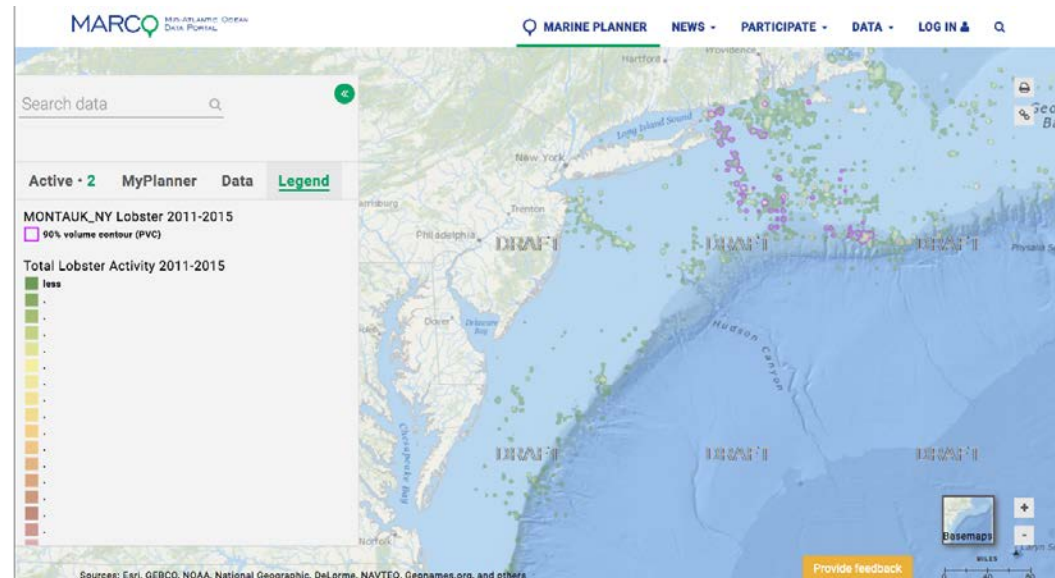
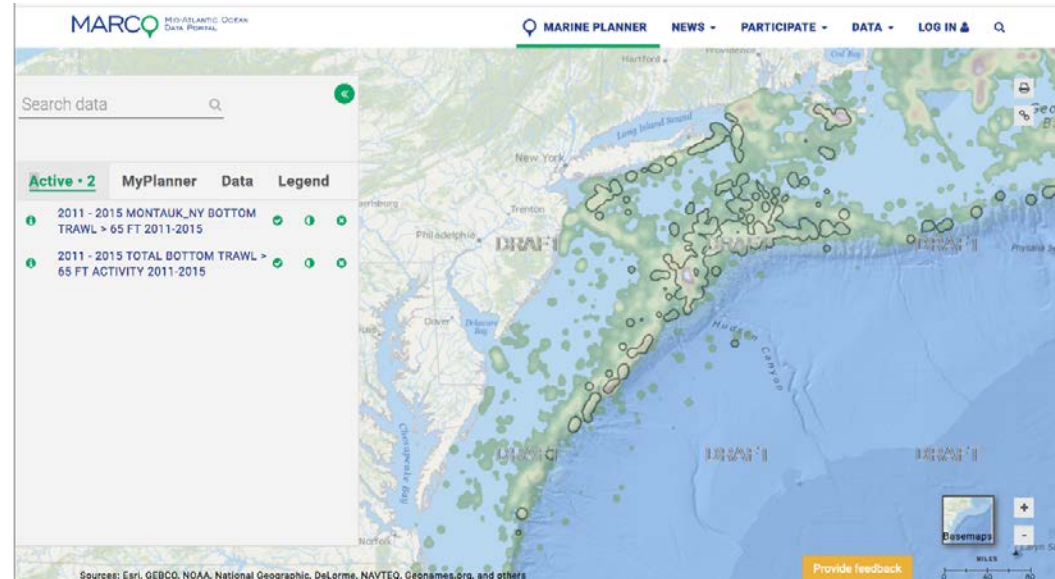
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Communities at Sea

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