

Ocean Planning Committee

Marine Life Data Development

November 9, 2022

- Development of marine life data products accelerated during development of Northeast Ocean Plan and Mid-Atlantic Ocean Action Plan, 2014-2016
- Contract with the Marine-life Data and Analysis
 Team (MDAT), led by the Duke Marine Geospatial
 Ecology Lab since 2014
- Individual species data products developed by each MDAT partner entity (cetaceans, birds, fish)
- Summary data products development guided by expert work groups
- Framework for presentation and description of data products on the Northeast Ocean Data Portal



Marine Life Data & Analysis Team (MDAT)

Duke University Marine Geospatial Ecology Lab (MGEL)

- Pat Halpin
- Corrie Curtice
- Jesse Cleary
- Debbie Brill

NOAA NCCOS – Arliss Winship (avian models)

NOAA NEFSC – David Richardson, Kevin Friedland, others (fish trawl data)

TNC – Marta Ribera

States – fish trawl coordinators and data managers













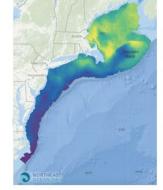






PARTNER ROLES

DATA ACCESS & EXPERT REVIEW





DATA MODELING & MAPPING











SEABIRDS

FISH



























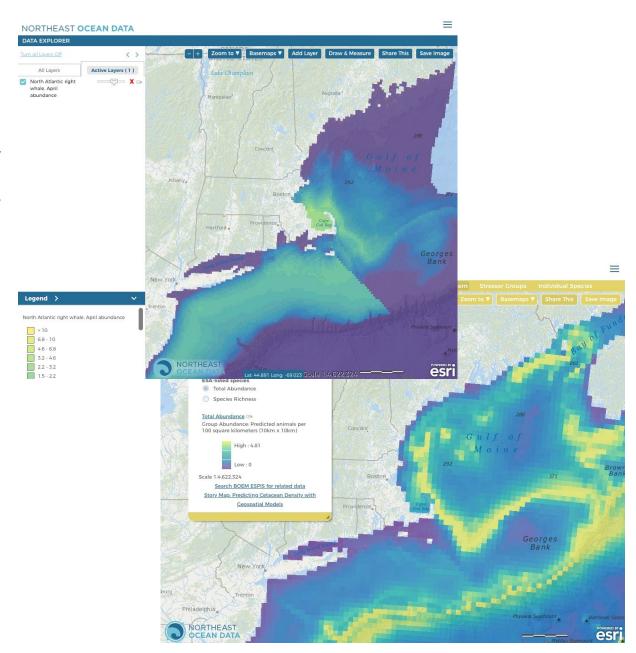






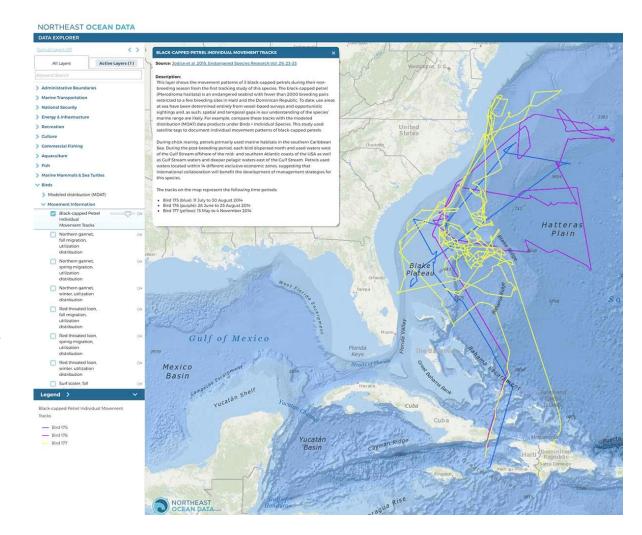
FY20 Regional Ocean Data Sharing Funds used to update and maintain products using the latest model outputs and to develop new products based on NROC & MARCO priorities with Marine Life Work Group input

Updates to NARW products and all cetacean summary products



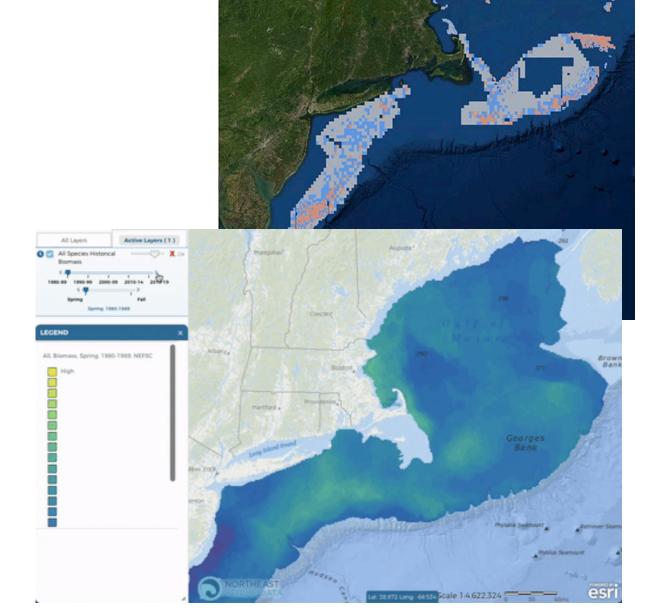
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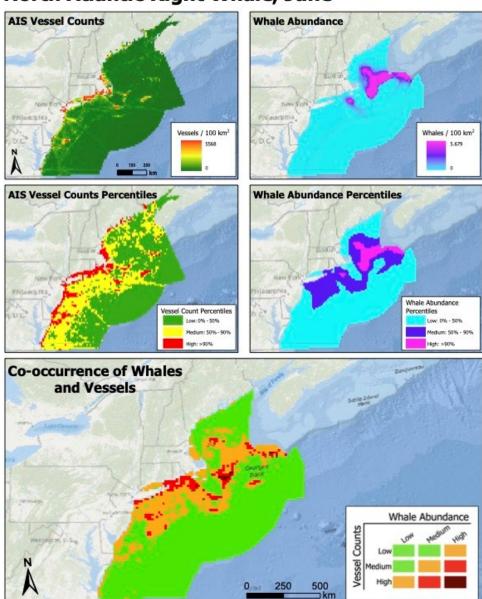
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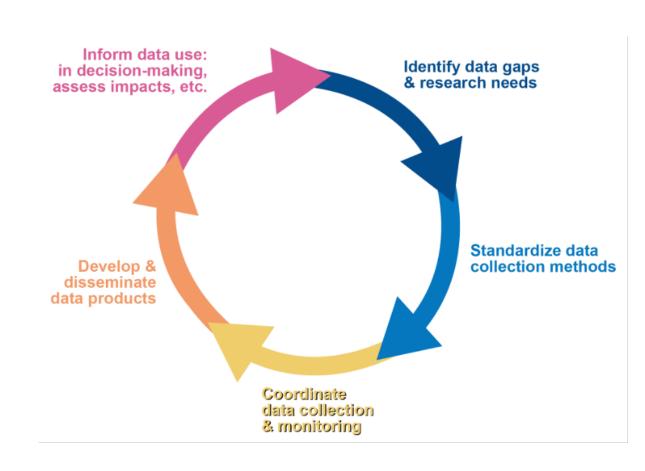
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- Species sensitivity and risk cetaceans and ship strikes; fish and EMF

North Atlantic Right Whale, June



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- Avian movement information products
- Fish distribution and range shifts
- Species sensitivity and risk cetaceans and ship strikes; fish and EMF
- Coordination with RWSC and Project WOW



Potential IIJA Scope

Bring marine life data products up to date and in alignment with new and emerging uses of the data products, many of which involve explicit assessments of change and evaluation of stressor impacts

- "MDAT 2.0"
- Collaboration and coordination
 - MARCO
 - RWSC
 - ISMN









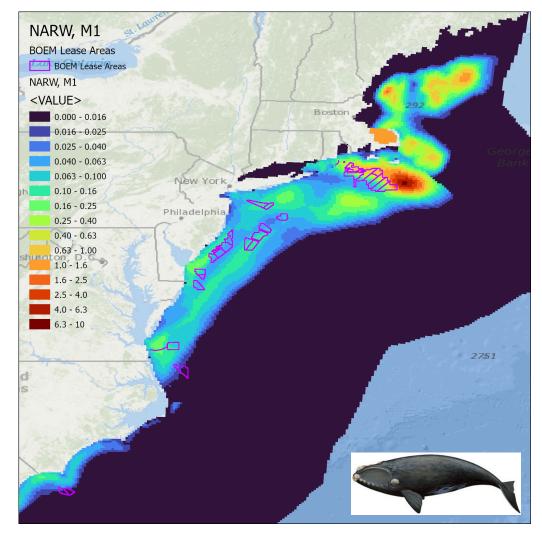


Potential IIJA Scope

	YEAR 1	YEAR 2
1. Update cetacean and add new pinniped models	\checkmark	\checkmark
2. Update avian models and add new avian density forecast models		
3. Add new sea turtle models (Navy and NOAA AMAPPS)		
4. New species group products / summary products using 1-3 above		
5. Integrate Northeast Regional Habitat Assessment (NEFMC+MAFMC) focal fish species products	Scoping	\checkmark
6. Innovation	Scoping	\checkmark

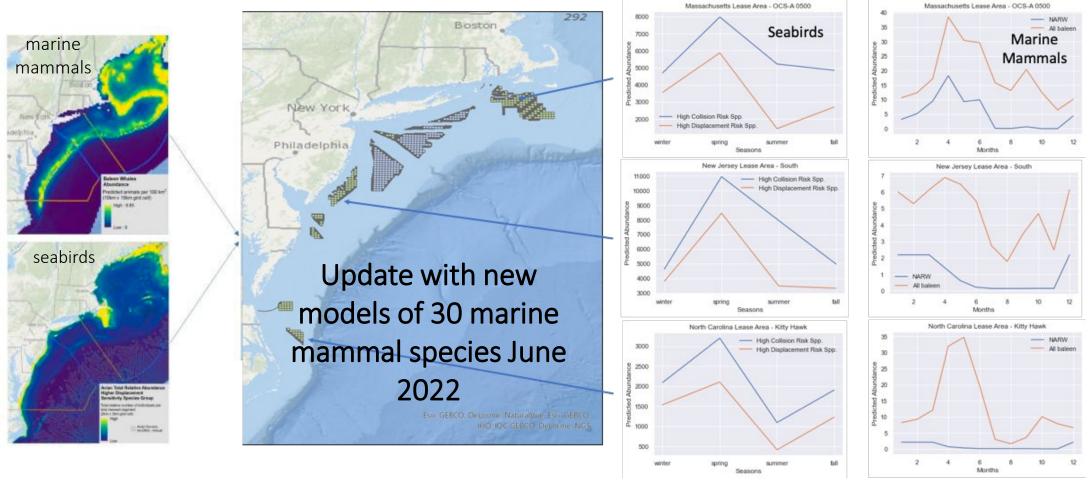
Potential IIJA Scope - Innovation

- Products showing change over time for multiple taxa – integration with ISMN and RWSC
- Distribution/abundance at different scales or analysis windows



Roberts et al. 2022 in prep

Potential IIJA Scope - Innovation



Predicted abundance using models for seabirds (seasonally; Winship et al. 2018) and marine mammals (monthly; Roberts et al. 2016) for three WEAs

Potential IIJA Scope - Discussion

1. Management issues for which the data will be used/applied?

2. Areas of overlap with ISMN – how?

3. Scales – e.g., subregions, basin

Contacts

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