

Collaboration and Decision Making with Ocean Mapping and Reporting Tools

Christine Taylor (BOEM) & Nick Napoli (NROC) – Gulf of Maine Wind Task Force Meeting – 12/12/2019



Decision Tools

- Always multiple stakeholders in any decision involving state or federally managed waters
- Best scenario is everyone is using the same and most up to date, authoritative maps and information
- States and Federal Agencies have collaborated on processes and tools to help you navigate through all the data



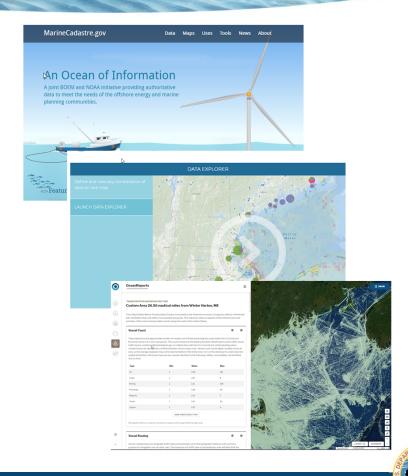


Decision Tools

MarineCadastre.gov

Northeast Ocean Data Portal

Ocean Reports



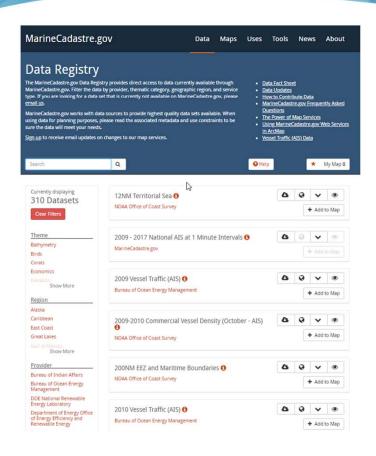
MarineCadastre.gov



- Provided by BOEM & NOAA for since 2007
- Agency of Responsibility /Authoritative Map Layers – Updated regularly
- Map Once Use Often
 - Map Services utilized by other portals



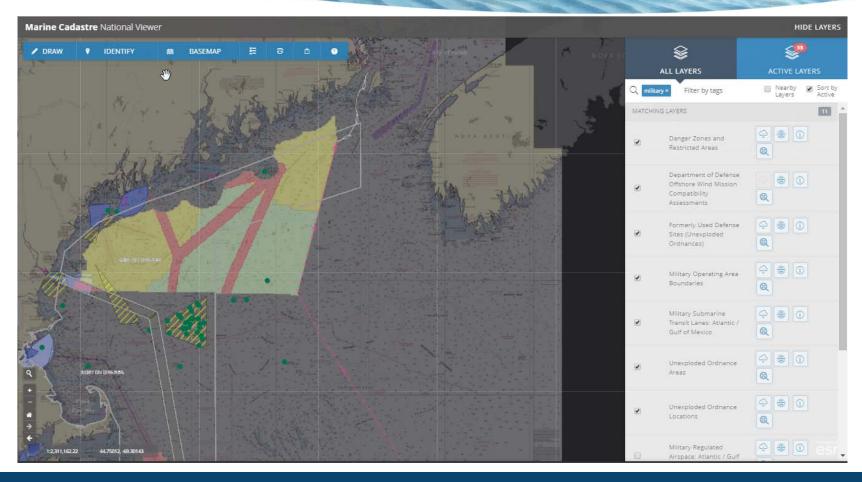
MarineCadastre.gov – Data Registry



- Search for over 300 layers
- Download
- View
- Dig deeper
- Save to Map

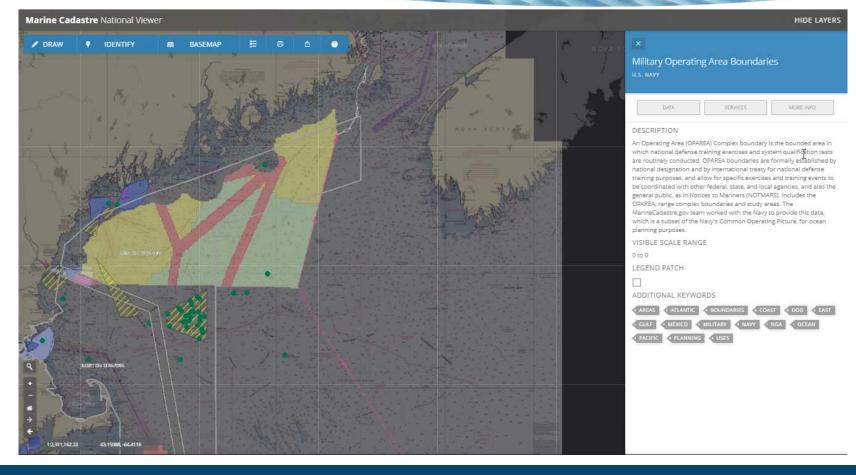


MarineCadastre.gov – Map Viewer





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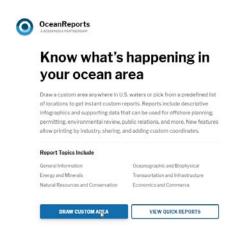




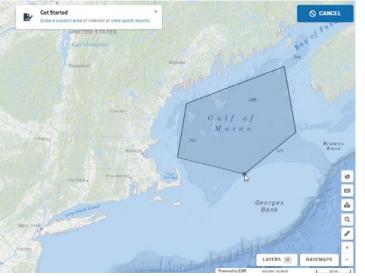


Ocean Reports Components

- Draw your own area results in about 2 seconds
 - Move it around if you don't get the results you need
 - Or use known coordinates







CREATE A POLYGON WITH COORDINATES

Enter a minimum of four geographic coordinate pairs, each on their own line. The first and last pair must be the same. For example:

-70.2301, 41.8634 -70.4360, 41.8204 -70.8178, 41.4344 -70.4690, 41.2881 -70.2301, 41.8634



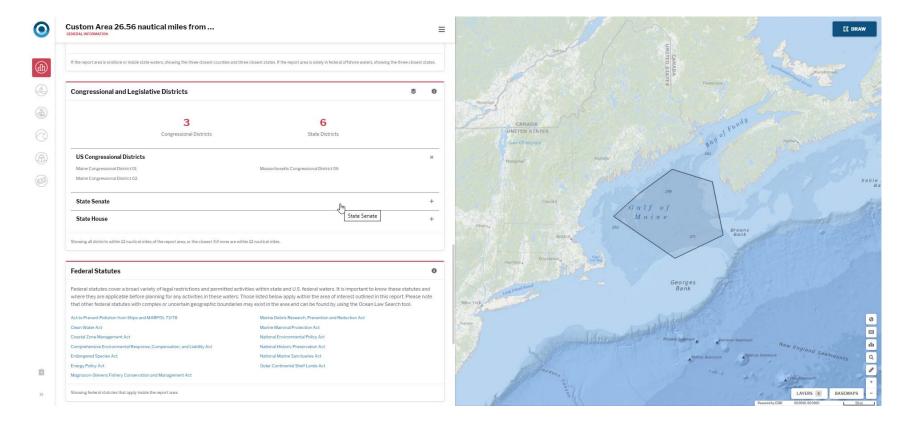
6 Chapters, 80+ layers, 68 infographics

Chapter Theme	Symbol	Infographic Reports Available			
General Information		Report Area Depth/Elevation Populated Places Federal/State/County Jurisdictions	Congressional and Legislative Districts Federal Statutes Tribal Lands		
Energy & Minerals		Offshore Wind Potential Offshore Wind Planning Areas Offshore Wind Energy Leases OCS Revenue Sharing Areas Oil and Gas Potential	Oil and Gas Planning Areas Oil and Gas Leases Energy Facilities OCS Blocks with Sand Resources	Beach Nourishment Projects Surficial Sediment Texture Ocean Disposal Sites Federal Sand and Gravel Leases	
Transportation & Infrastructure		AIS Vessel Count Vessel Routing N. Atlantic Right Whale Management Areas Anchorage Areas Pilot Boarding Areas	Ports Coastal Maintained Channels Danger Zones/Restricted Areas Unexploded Ordnances Formerly Used Defense Sites	Wrecks/Obstructions Cables and Pipelines Wastewater Outfalls Aquaculture Oil Lightering Zones	Deepwater Ports Oil/Gas Platforms Oil/Gas Wells
Natural Resources		Endangered Species ESA-Critical Habitat Designations Habitat Areas of Particular Concern Managed Highly Migratory Species Audubon Important Bird Areas	Protected Areas Artificial Reefs Shallow Corals Deep-sea Sponge/Coral Obs. Deep-sea Coral Habitat Suitability	Historical Lighthouses Cetacean Biologically Important Areas	
Oceanographic & Biophysical		Wave Height, Period and Direction Wind Speed and Direction Current Speed and Direction at Depths Sea Surface Height Water Temp/Salinity	Nitrates Phosphates Silicates Aragonite Light Attenuation KD PAR	Light Attenuation KD 490 Chlorophyll a Concentration	
Economics & Commerce		Ocean Job Contributions GDP of Ocean Economy Contributions by Sector	Census Statistics Fishing Economic Value (North and Mid Atlantic)		



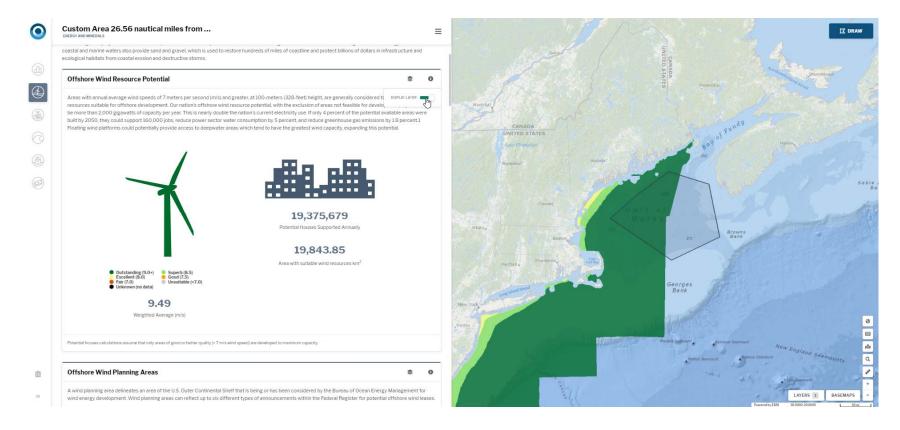


General Information – 7 infographics



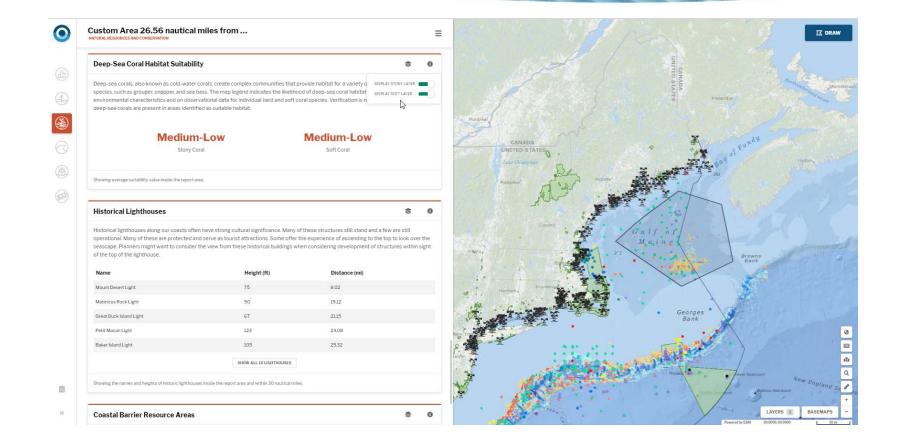


Energy and Minerals – 13 infographics



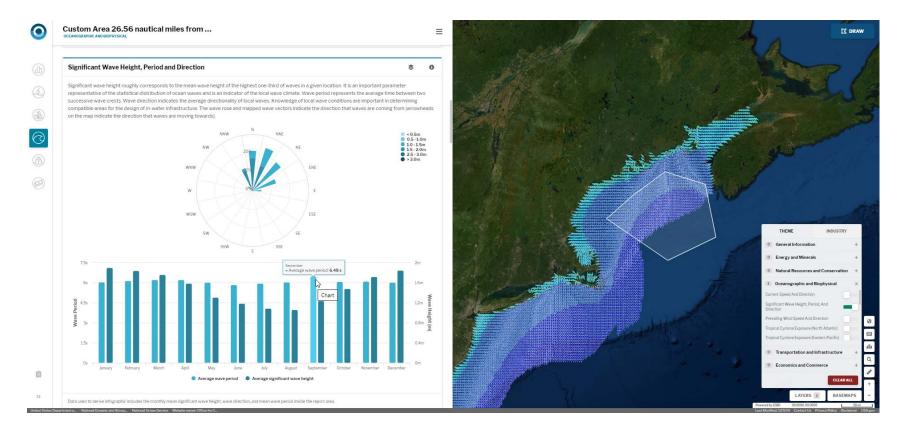


Natural Resources and Conservation – 13 infographics



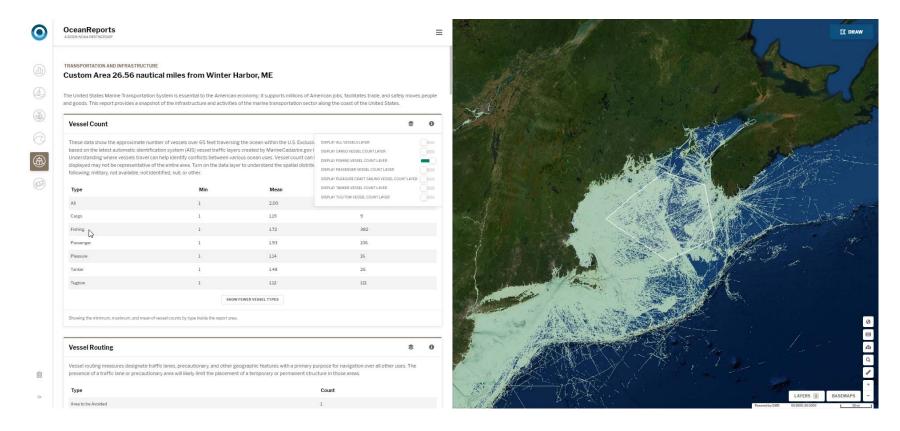


Oceanographic and Biophysical – 12 infographics



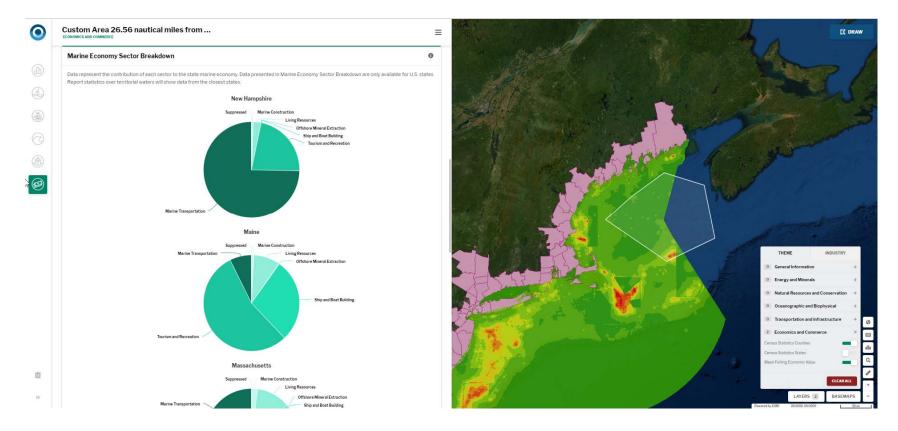


Transportation and Infrastructure – 18 infographics





Economics and Commerce – 6 infographics

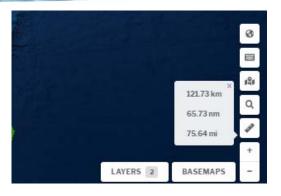




Available tools

Special Tools

- Coordinate entry
- Return to original location on map
- Measure distances
- Change base maps
- Display map layers





Available tools

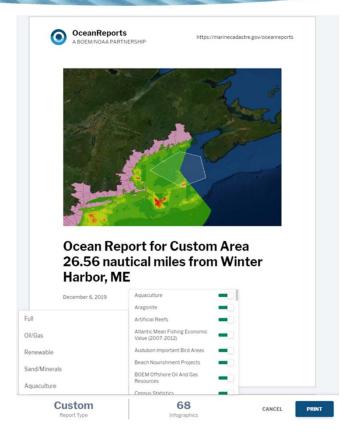


- Print a pdf version
- Share with others/keep for later
- Investigate further (metadata, downloads)
- Use side by side with MarineCadastre using MarineCadastre's ID tool

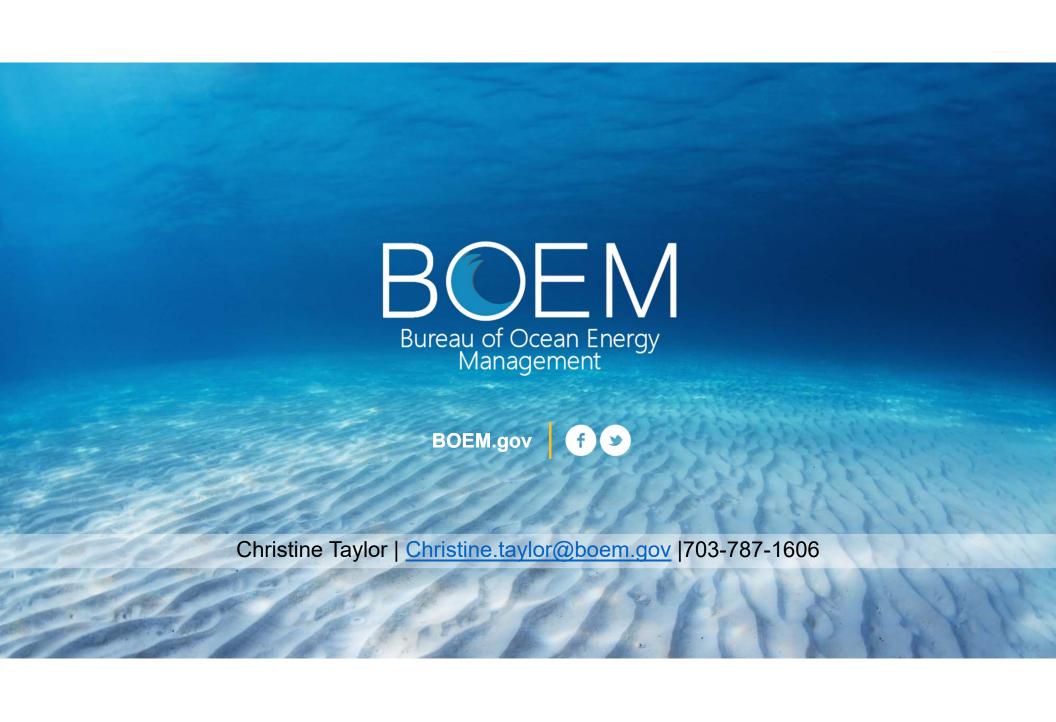


Print Report

- Gives you all the infographics and links
- Allows you to choose to turn off infographics you don't need
- Or you can choose a preset grouping by industry







Northeast Ocean Data Portal – Nick Napoli

