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# OceanReports Tool Brings Ocean and Coastal Planning Data to Your Fingertips

**Thomas Moore** 

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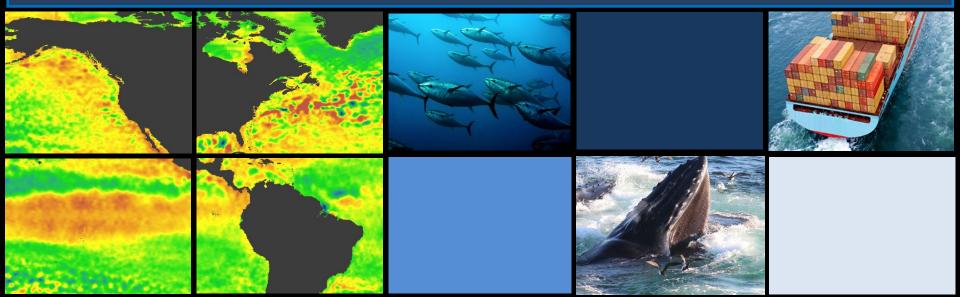
# OceanReports Tool Brings Ocean and Coastal Planning Data to Your Fingertips April 26, 2022

T.J. Moore, GISP
CSS Inc. on contract to NOAA Office for Coastal Management
Seattle, WA

#### **OceanReports**

-- a MarineCadastre.gov Application --NOAA Office for Coastal Management NOAA National Centers for Coastal Ocean Science Bureau of Ocean Energy Management







## **Digital Coast**

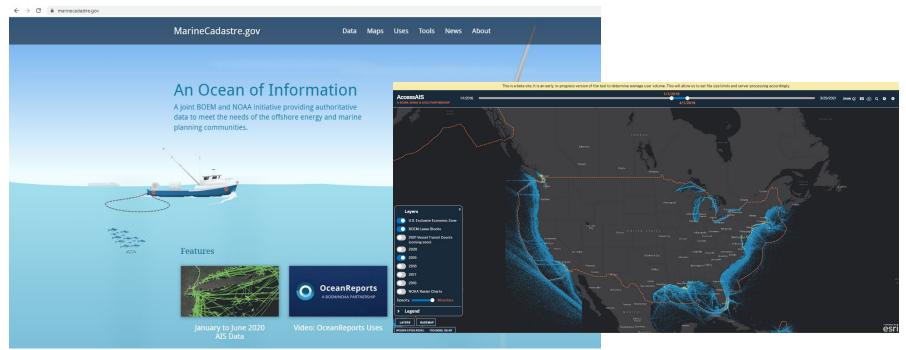


coast.noaa.gov/digitalcoast





## **Marine Cadastre**



marinecadastre.gov

## Imagine if...

You could pull up a map and in seconds obtain a custom spatial analysis for any U.S. ocean space, useful for all ocean industries...

And do it over and over....

marinecadastre.gov/oceanreports

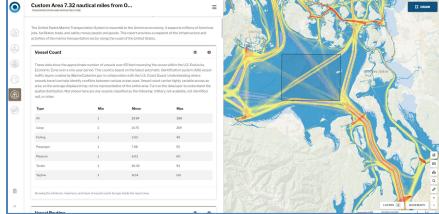


## **OceanReports Quick Facts**

- Web-based tool that provides instantaneous spatial analyses and reports for the entire EEZ
- Provides easy-to-interpret infographic-charts, graphs,

graphics for complex data

- Integrates over 80 data sets from MarineCadastre.gov
- Designed for all within the ocean planning community
- "It's like the Zillow of the ocean."





#### 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)	Commercial Fish Landings	





## **OceanReports Users**

- Ocean industries
- GIS and environmental consultants
- Coastal managers/regulators
- Coastal planners
- Educators
- The public



Planning and Analysis

Leasing

Site Assessment Construction and Operation



## What's the Big Deal?

- Increased transparency
- Industry and environmental NGOs are better informed
- Coastal managers time saved (tax dollars)
- Consultants will save time and money
- Decreased number of permitting false starts
- Increased regulatory efficiency





#### **How Did We Do It?**

- Envisioned a tool that would facilitate Marine Spatial Planning (MSP)
- Assembled a multidisciplinary team
- Optimized data from MarineCadastre.gov
- Added biophysical and oceanographic data
- Developed rules for each data layer
- Developed infographics for each layer
- Designed with predecisional tasks in mind









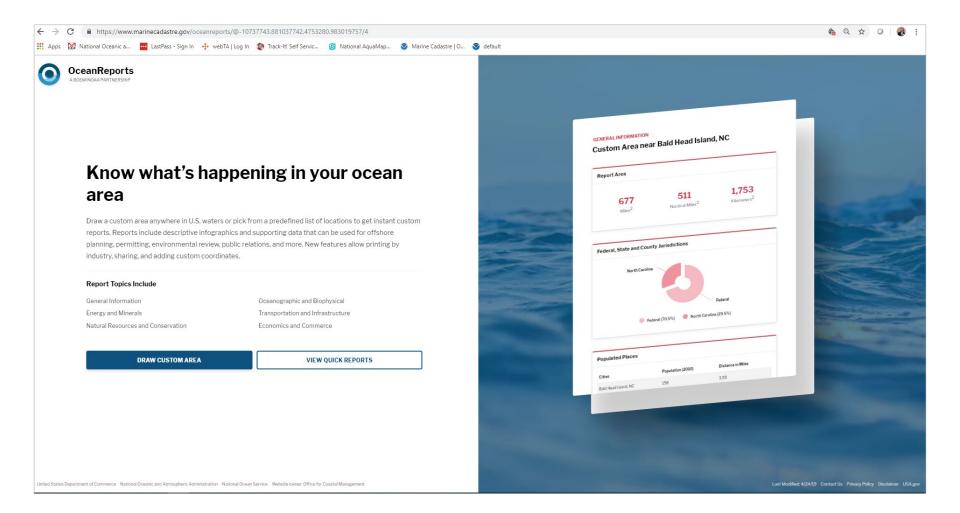




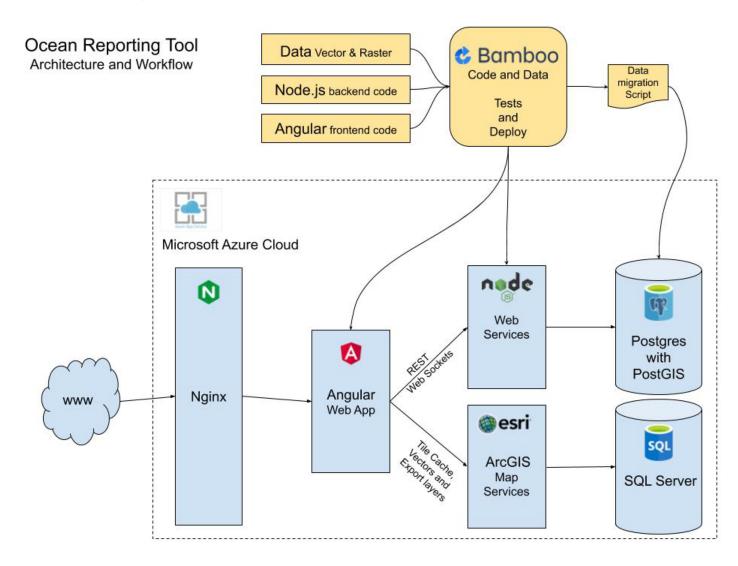




## **Demo Time!**



## **Systems Architecture**





## **Next steps**

- Evaluation and enhancements report as part of the Presidential Memo on Ocean Exploration
- Enhancements based on current user feedback
  - New Data: Ocean Observation Platforms, Submarine Cables, Wastewater Outfalls
  - Upload/submit custom shapes
  - Direct linkages to regional and state portals
- Continued outreach to make sure it's used!





















# Questions?



### marinecadastre.gov/oceanreports/

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