



The National Oceanic and Atmospheric Administration and the Bureau of Ocean Energy Management, in cooperation with federal and state partners, have created a GIS-based marine information system for the U.S. waters.

**The Multipurpose Marine Cadastre** is an integrated marine information system that provides legal, physical, ecological, and cultural information in a common geographic information system (GIS) framework. All organizations considering an offshore activity can benefit from this comprehensive, visual approach to data analysis. This tool was created to comply with Section 388 of the Energy Policy Act of 2005, but is also providing the geospatial framework needed for the broader coastal and marine spatial planning initiative called for in the President's ocean agenda.

## Audience

This tool is used by federal regulatory agencies and others who are screening renewable energy sites and other offshore activities. The tool is also being used by people working on regional and state coastal and marine spatial planning efforts.

## Authoritative and Trusted Data Source

At its core, this data viewer contains the official U.S. marine cadastre, and is the only place where users can see all of the official U.S. boundaries on one map. Similar to the nation's land-based parcel system, a marine cadastre describes the spatial extent, rights, restrictions, and responsibilities of U.S. waters. All data come from the appropriate authoritative source; these organizations are responsible for data upkeep.

## Future Direction

The system is constantly evolving and growing to include relevant issue-driven data, and in the future, the project team will focus on strengthening the biodiversity and human use data, as well as building decision support tools to support coastal and marine spatial planning.

## Technological Innovation

The Multipurpose Marine Cadastre project takes advantage of the data distribution advances provided by web services, a technology that allows data to reside on servers maintained by the authoritative data sources, and yet these same data can be accessed on demand through the Multipurpose Marine Cadastre.

State and regionally driven coastal and marine spatial planning initiatives can connect to the Multipurpose Marine Cadastre and be confident in having the most accurate federal data available. This innovative system provides tremendous efficiencies for all levels of government and contributes to a national coastal and marine spatial planning framework.

## Project Leads

- Bureau of Ocean Energy Management
- NOAA Coastal Services Center

## Current Partnerships

- NOAA Fisheries
- NOAA Office of Marine Sanctuaries
- NOAA Office of Coast Survey
- NOAA Office of Ocean and Coastal Resource Management
- U.S. Fish and Wildlife Service
- The Nature Conservancy
- California Coastal Conservancy
- Federal Energy Regulatory Commission
- U.S. Coast Guard
- U.S. Geological Survey
- Department of Defense
- Department of Energy

## Partnership Opportunities

- Regional Ocean Councils and Coastal States
- IOOS Regional Associations
- Private Sector



## The Multipurpose Marine Cadastre currently includes the following data themes

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### Jurisdictional Boundaries and Limits

Revenue Sharing Boundary  
Territorial Sea Boundary  
Contiguous Zone  
Exclusive Economic Zone  
Submerged Lands Act Boundary  
Federal Fishery Management Areas  
National Estuarine Research Reserves  
National Marine Sanctuaries  
Marine National Monuments  
Coastal Forest, Parks, and Refuges  
Coastal Indian Lands  
Coastal Barrier Resources Act Zones  
BOEM Protractions Diagrams  
BOEM OCS Lease Blocks  
BOEM Planning Areas  
BOEM Administrative Boundaries  
State MPAs  
Atlantic OCS Wind Energy Areas  
DoD Oil and Gas Stipulations

### Federal Georegulations

Abandoned Shipwreck Act  
Clean Water Act  
Coastal Zone Management Act  
Endangered Species Act  
Marine Debris Research, Prevention, and Reduction Act  
Marine Mammal Protection Act  
Marine Plastics Pollution Research and Control Act  
Magnuson-Stevens Fishery Conservation Act  
National Environmental Policy Act  
Outer Continental Shelf Lands Act  
Submerged Lands Act

### Federal Agency Regions

Federal Agency Regions, Districts, and Planning Areas  
Regional Ocean Council Boundaries  
US/Canada Great Lakes Boundary  
Navy Operation Areas

### Navigation and Marine Infrastructure

Shipping  
Collision Regulations Boundary  
Oil and Natural Gas Wells  
Drilling Platforms  
Liquefied Natural Gas Wells

Selected Pipelines  
Submarine Cables  
Anchorage Areas  
Military Danger Zones  
Aids to Navigation  
Navy Aviation Warning Areas

### Physical and Oceanographic

OCS Sand and Gravel Borrow Areas  
Bathymetry Contours (selected areas)  
Offshore Wind Resource Potential  
Atlantic, Pacific, and Gulf of Mexico Offshore Surficial Sediment  
Atlantic and Gulf of Mexico Seafloor Geology  
Estimated 30-meter Depth Contour  
Undersea Feature Placenames

### Human Use

BOEM Active Oil & Gas Leases  
BOEM Active Renewable Energy Leases  
Proposed California Hydrokinetic Sites

### Marine Habitat and Biodiversity

NMFS Critical Habitat Designations  
NMFS Habitat Areas of Particular Concern  
Gray Whale Migration (California, Not Official)  
Pinniped Haul Outs and Rookeries (California)  
Groundfish Essential Fish Habitat (California)  
Pacific Whale Summer Densities

### Additional Webmap Services and ArcGIS Servers

Marine-Geo.org Bathymetry WMS Service  
U.S. Marine Cadastre WMS Service

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### For additional information:

[www.marinecadastre.gov](http://www.marinecadastre.gov)

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