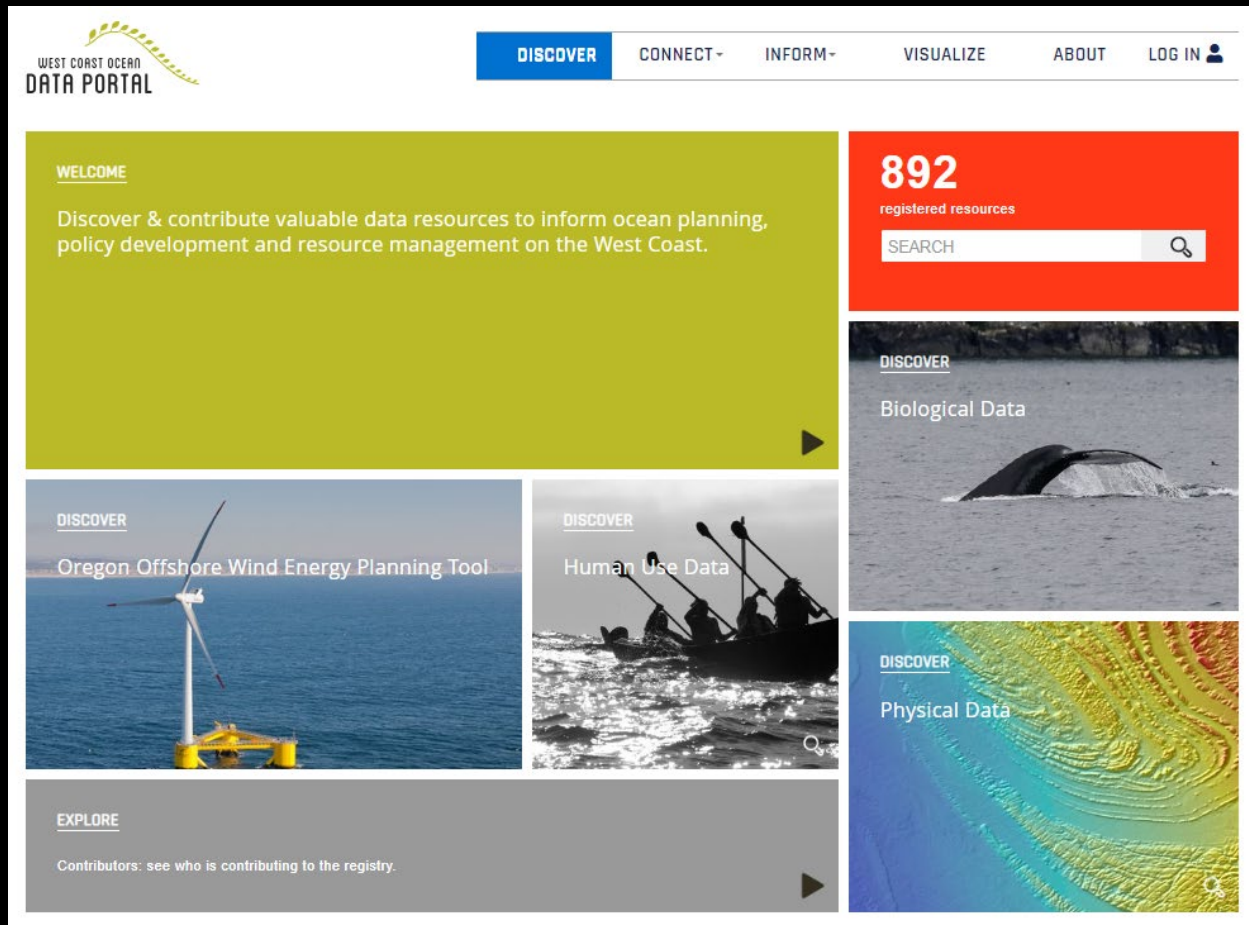# WEST COAST OCEAN
DATA PORTAL
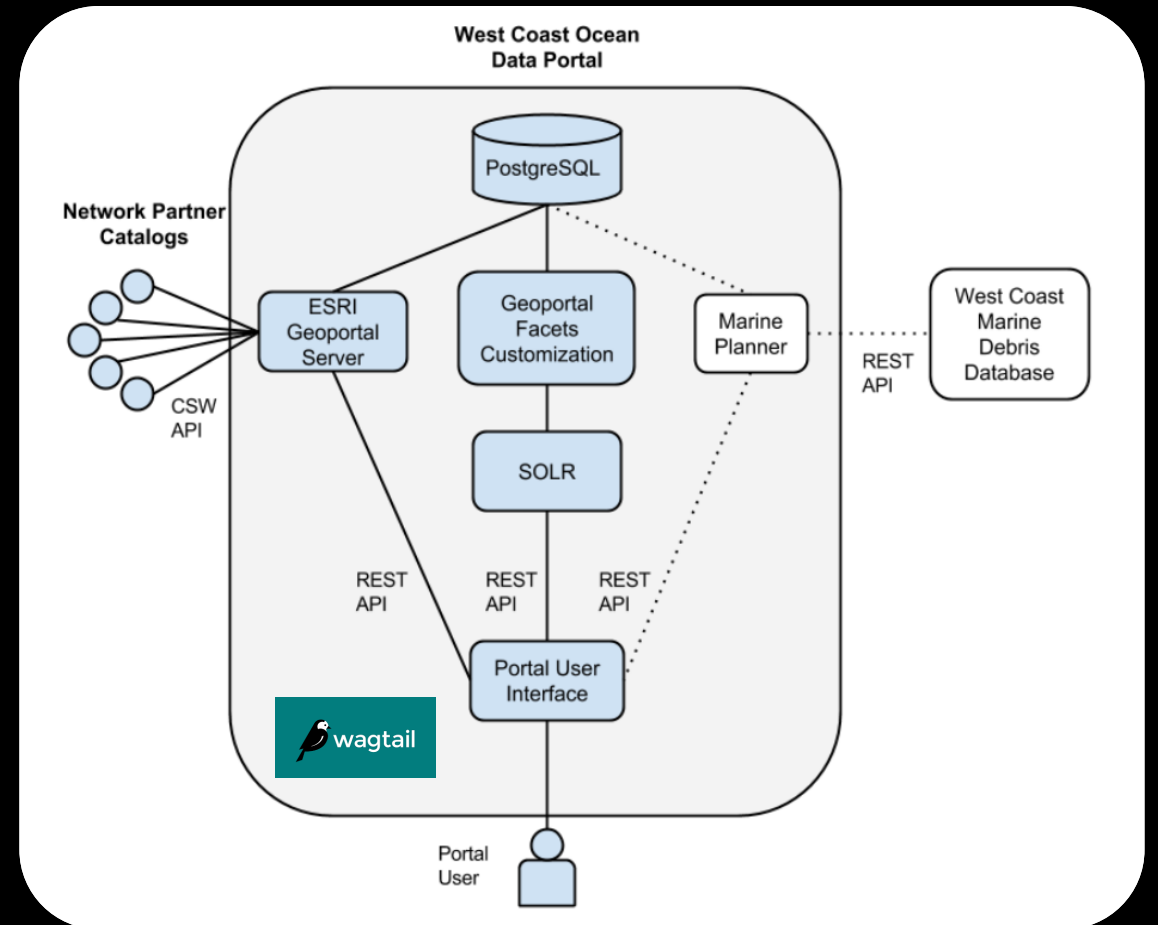
ITMD 2024 Annual Workshop
February 13th, 2024

What is the West Coast Ocean Data Portal?

- Established as a regional ocean data portal to serve the needs of the west coast states, tribal, and federal government entities.

- Provides a mechanism for data coordination across multiple entities.

- Is focused on providing a catalog that is organized and searchable.

- Founded on the principle of harvesting metadata from across data source providers to catalog and enhance discovery of timely and relevant data and information products.
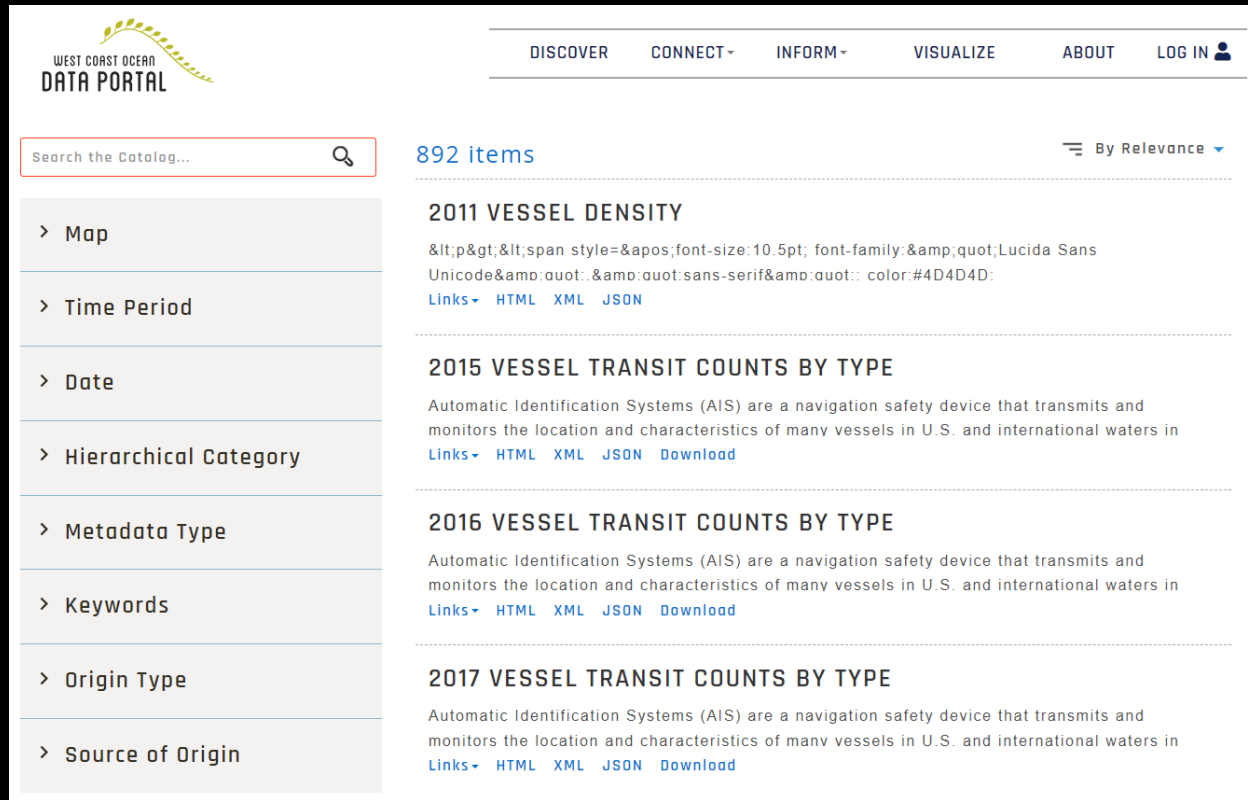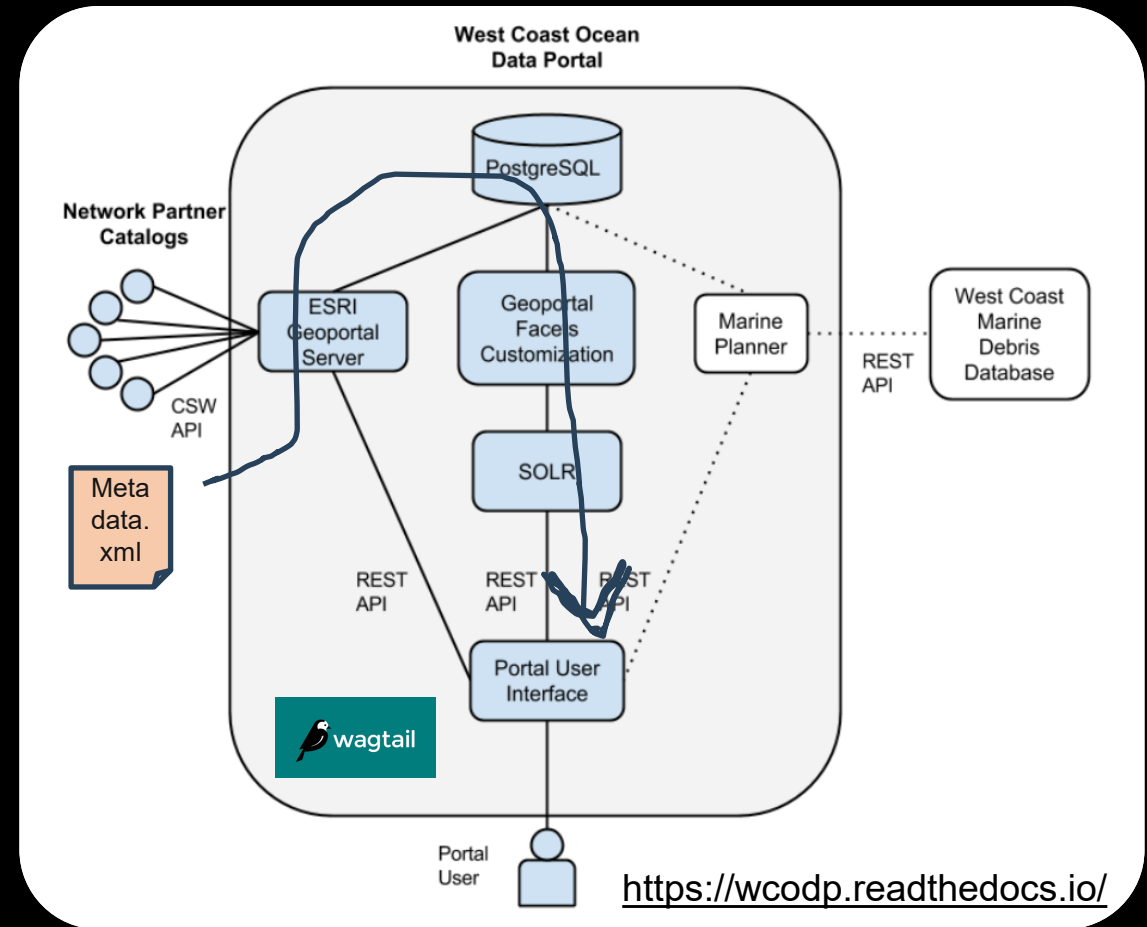
Portal Technology Overview

Portal Technology Overview

https://wcodp.readthedocs.io/

Portal Technology Overview

https://wcodp.readthedocs.io/

Marine Planner and Catalog Technology

WEST COAST OCEAN DATA PORTAL

Portal website and user interface

- Wagtail Content Management System (Python)

Harvest into catalog

- Web accessible folders
- ESRI Geoportal Server

Search the catalog

- JavaScript and HTML
- Geoportal Facet Customizations
- SOLR
- PostgreSQL/PostGIS

Marine Planner

- Open Layers
- Django data administrative database
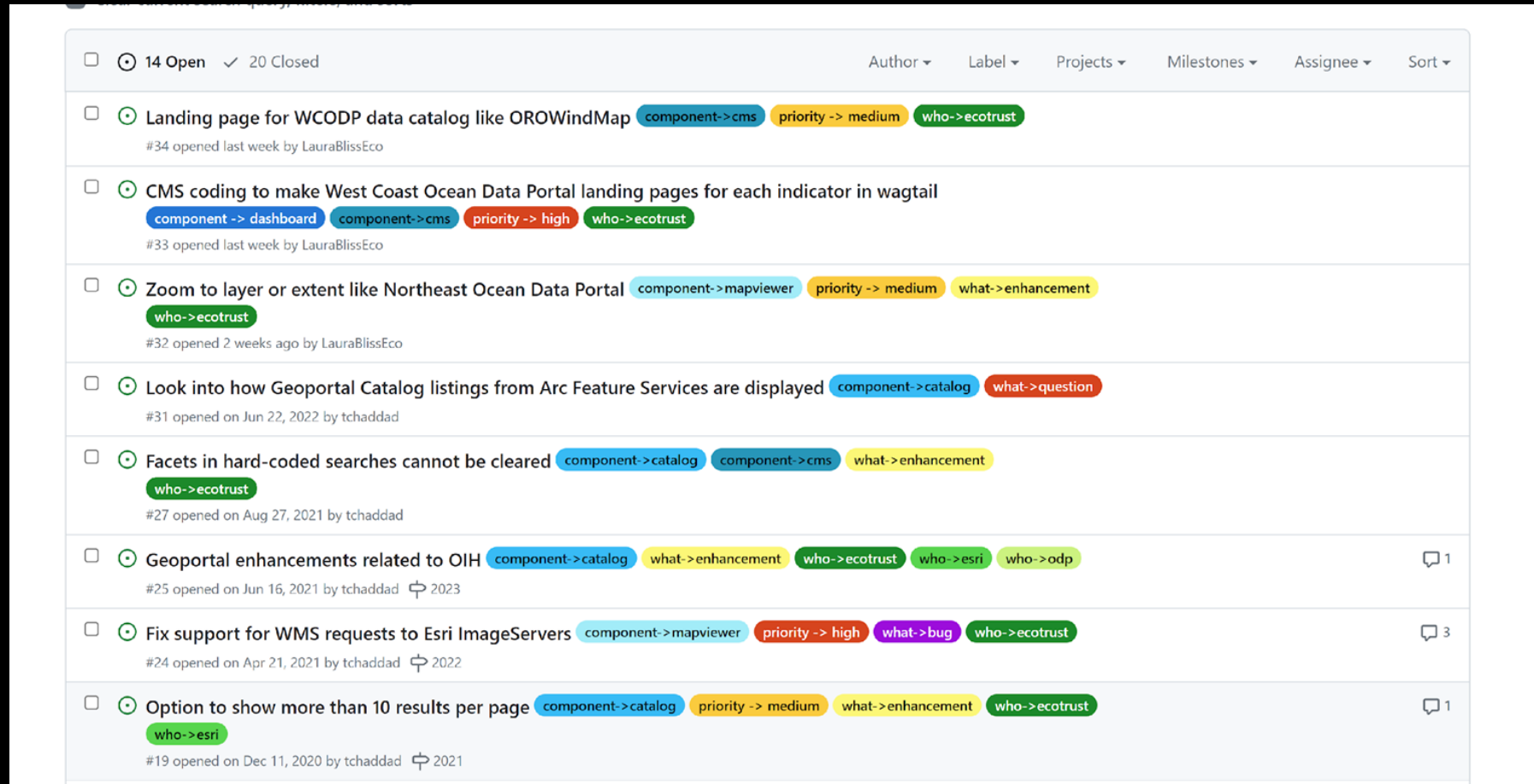
Technical Enhancement Process

- Leadership (Co-chairs):
  Andy Lanier, Oregon Coastal Management Program
  Steve Weisberg, Southern California Coastal Water Research Project

- West Coast Ocean Data Portal Coordinator
  Laura Bliss

- Portal Coordination Team
  Enhancement big picture concepts and goals.

- Portal Development Team
  Enhancement specifics (code, software, timelines, etc.).

WCOA

↓

Co-Chairs of the WCODP
+ Coordinator

Portal Coordination Team **Portal Development Team**

WCOA Leadership Team

↓

WCOA
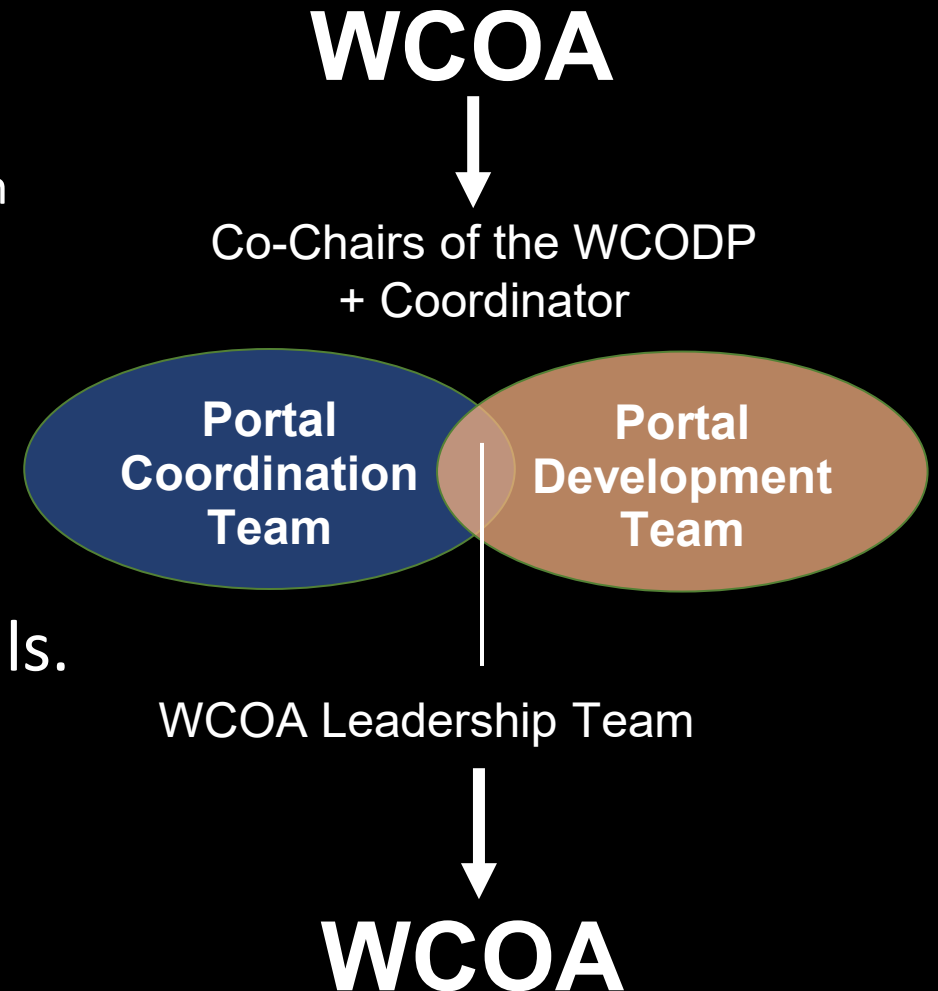
Technical Enhancement Process

Enhancements are tracked, organized, and prioritized using GitHub.

https://github.com/WCODP

Recently Completed Technical Enhancements

- Basemaps and their citations for publication

- Maps can be printed to pdf

- Groups – and flexible permissions for sharing data or map annotations

- User-added layers with password options

- Measure area tool

Prioritizing Upcoming Enhancements

- Ocean Health Dashboard landing page templates in the Wagtail content management system.

- Improving the database administration system for improving connections between the catalog and the visualization tool.

How can organizations interact with portal?

- Providing data for harvesting (catalog).

- Using the Marine Planner for map making, sharing, etc.

- Providing data to show on the Marine Planner.

Harvesting

WEST COAST OCEAN DATA PORTAL

Contributors

The data and information accessible via this portal are available thanks to the contributions of many agencies and institutions up and down the West Coast. Current data harvest sources include:

Federal
- Bureau of Ocean Energy Management (BOEM) - Bureau of Safety and Environmental Enforcement
- Federal Aviation Administration (FAA)
- Fishery Resource Analysis and Monitoring Division (FRAM)
- National Centers for Environmental Information (NCEI)
- National Oceanic and Atmospheric Administration (NOAA) - CetMap (Cetacean map)
- NOAA Fisheries - Essential Fish Habitat
- NOAA National Centers for Coastal Ocean Science (NCCOS)
- NOAA National Ocean Service
- NOAA Northwest Fisheries Science Center (NWFSC)
- NOAA Office for Coastal Management
- NOAA Office for Coastal Management - Marine Cadastre
- NOAA Office of Science and Technology
- NOAA Southwest Fisheries Science Center (SWFSC)
- Office of Coast Survey - U.S. Maritime Limits & Boundaries
- U.S. Census Bureau
- U.S. Environmental Protection Agency
- U.S. Geological Survey (USGS) - Earthquakes Hazard Program
- U.S. Geological Survey (USGS) - ScienceBase
- U.S. Integrated Ocean Observing System (IOOS)
- U.S. National Park Service (NPS)

State
- California Natural Resources Agency
- California State Geoportal
- Oregon Department of Land Conservation & Development (ODLCD)
- Oregon Geospatial Enterprise Office (GEO)
- Oregon Ocean Information (OAH)
- Oregon Spatial Data Library (SDL)
- Washington Geospatial Open Data Portal
- Washington Sea Grant
- Washington State Department of Natural Resources

Regional
- Northwest Association of Networked Ocean Observing Systems (NANOOS)
- Central and Northern California Ocean Observing System (CeNCOOS)
- Southern California Coastal Ocean Observing System (SCCOOS)
- Point Blue Conservation Science

Non-governmental
- Esri ArcGIS Online
- The Pacific States Marine Fisheries Commission (PMEP)

Your choice of data must be available/hosted online.

Examples:
Web accessible folder (WAF)
Arc Feature Server

CASSIN'S AUKLET PREDICTED DENSITY, FALL, NCCOS, 2021

This dataset provides seasonal spatial rasters of predicted long-term (1980-2017) density of 33 individual species and 13 taxonomic groups of marine birds throughout the Pacific Outer Continental Shelf (OCS) and adjacent waters off the contiguous United States at 2-km spatial resolution. Two indications of the uncertainty associated with the model predictions are also provided: 1) seasonal spatial layers indicating areas with no survey effort and 2) seasonal spatial rasters of the precision of predicted density of each species/group characterized as its coefficient of variation (CV). Predicted density should always be considered in conjunction with these two indications of uncertainty. This dataset also includes spatial rasters of environmental
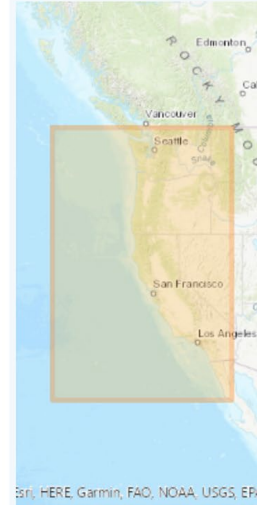
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PUBLISHER
US DOC; NOAA; NOS; NATIONAL CENTERS FOR COASTAL OCEAN SCIENCE (NCCOS)

CONTACT
JEFFERY B. LEIRNESS, TANYA C. HADDAD

Esri, HERE, Garmin, FAO, NOAA, USGS, EPA

Harvested Apr 04, 2022 from NOAA-NCCOS

HTML   XML   JSON

Next Steps

- Continued Feedback is Welcome!
  - Laura.Bliss@WestCoastOceanAlliance.org
  - Andy.LANIER@dlcd.oregon.gov
- Ongoing Portal Calls
  - Next call is today (Feb 13th) at 2pm
  - The next call will be focused on our HABS indicator work, Tuesday, April 16th, 2pm
- We can share the feedback form and tutorial in the chat.