



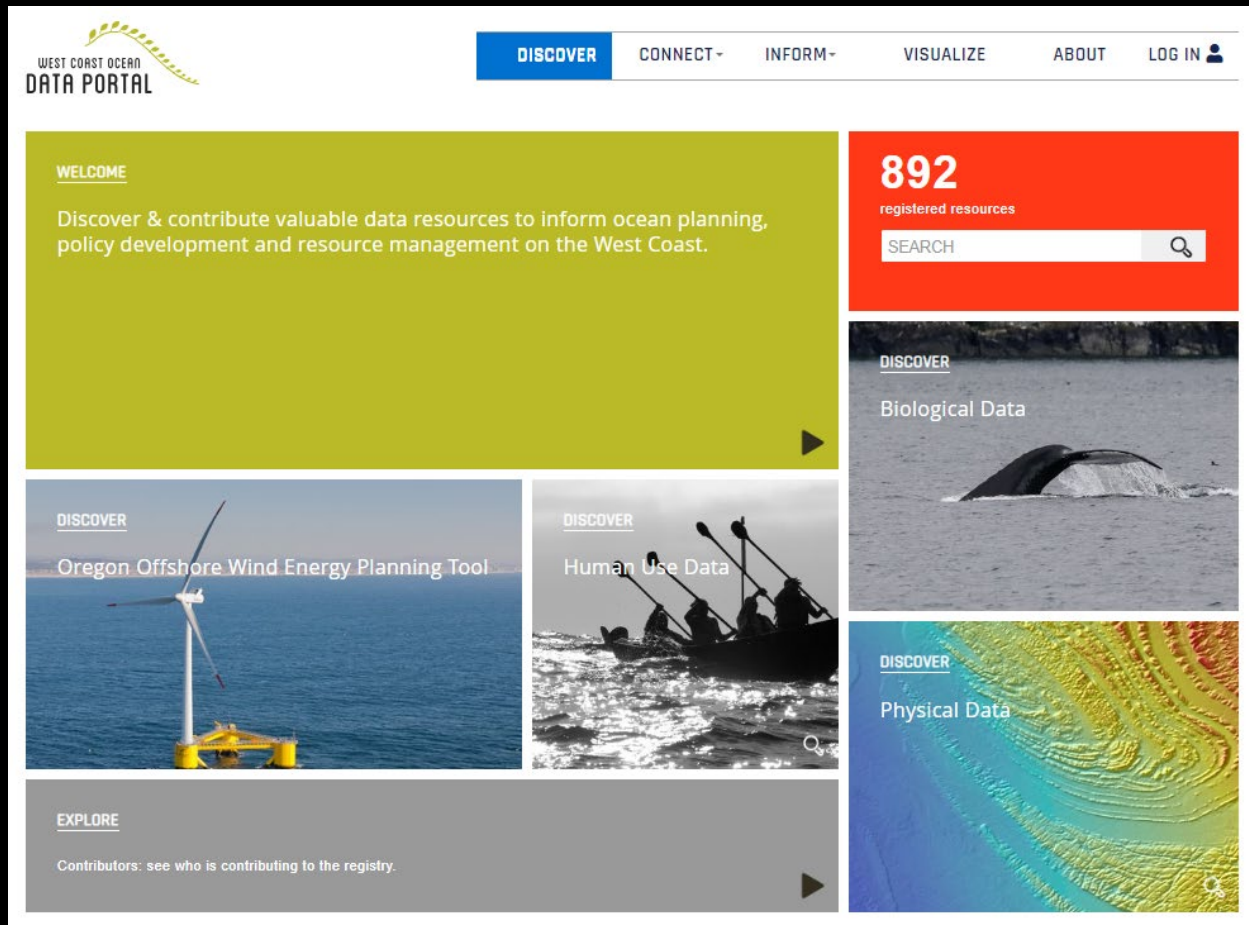
WEST COAST OCEAN
DATA PORTAL

ITMD 2024 Annual Workshop
February 13th, 2024

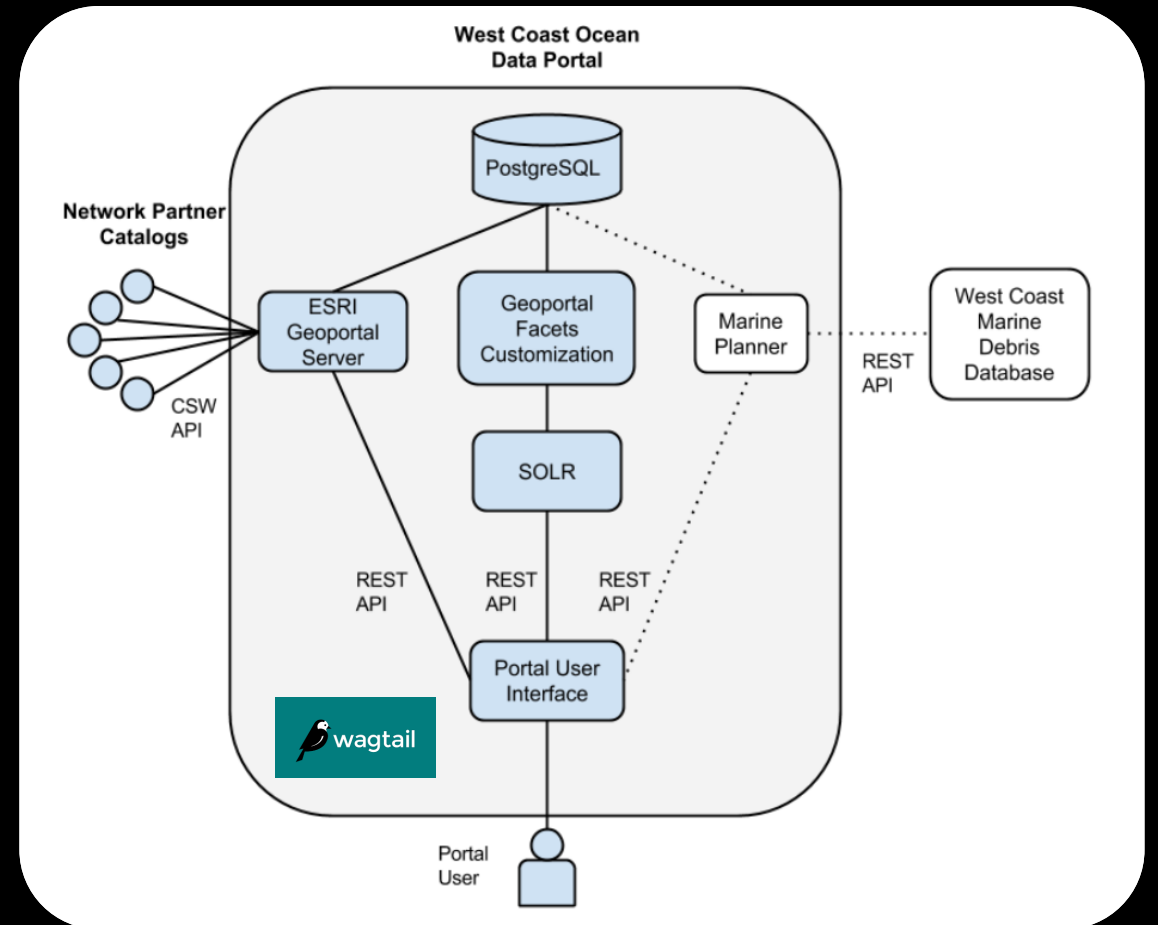
What is the West Coast Ocean Data Portal?

- 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.

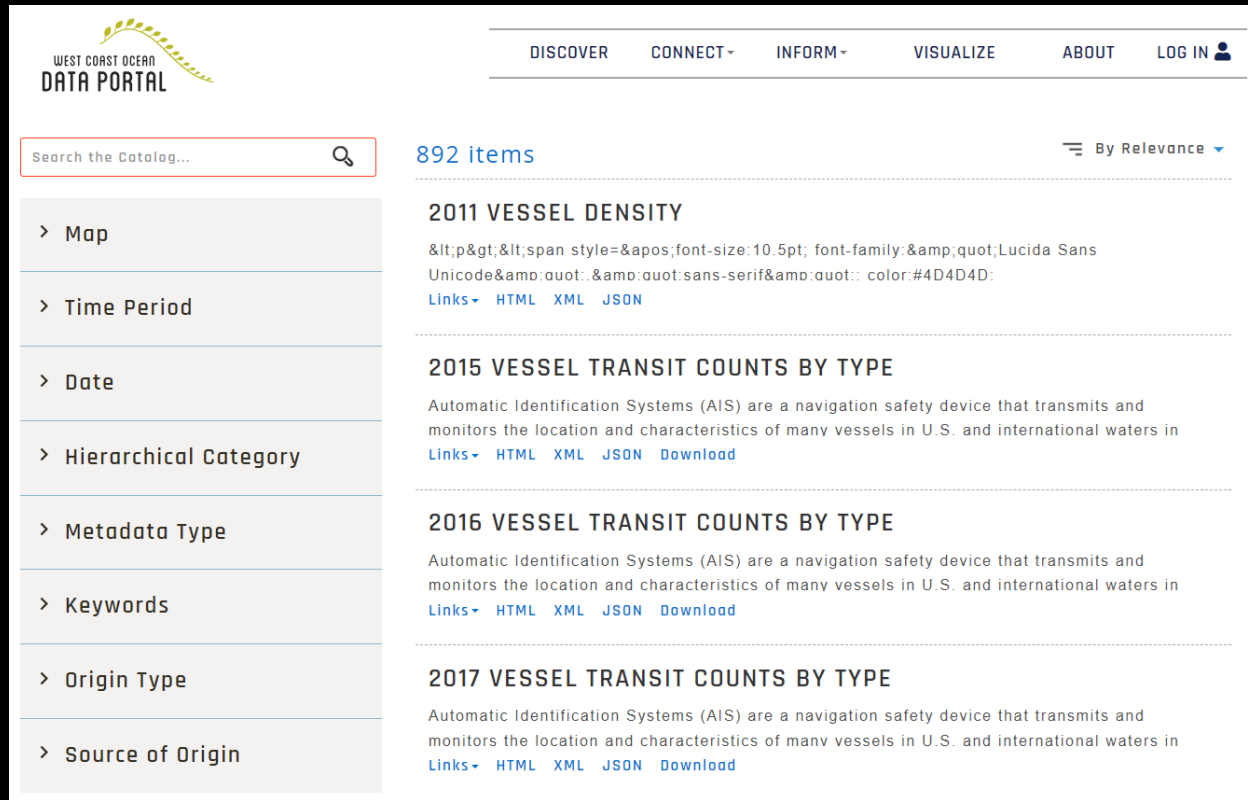
Portal Technology Overview



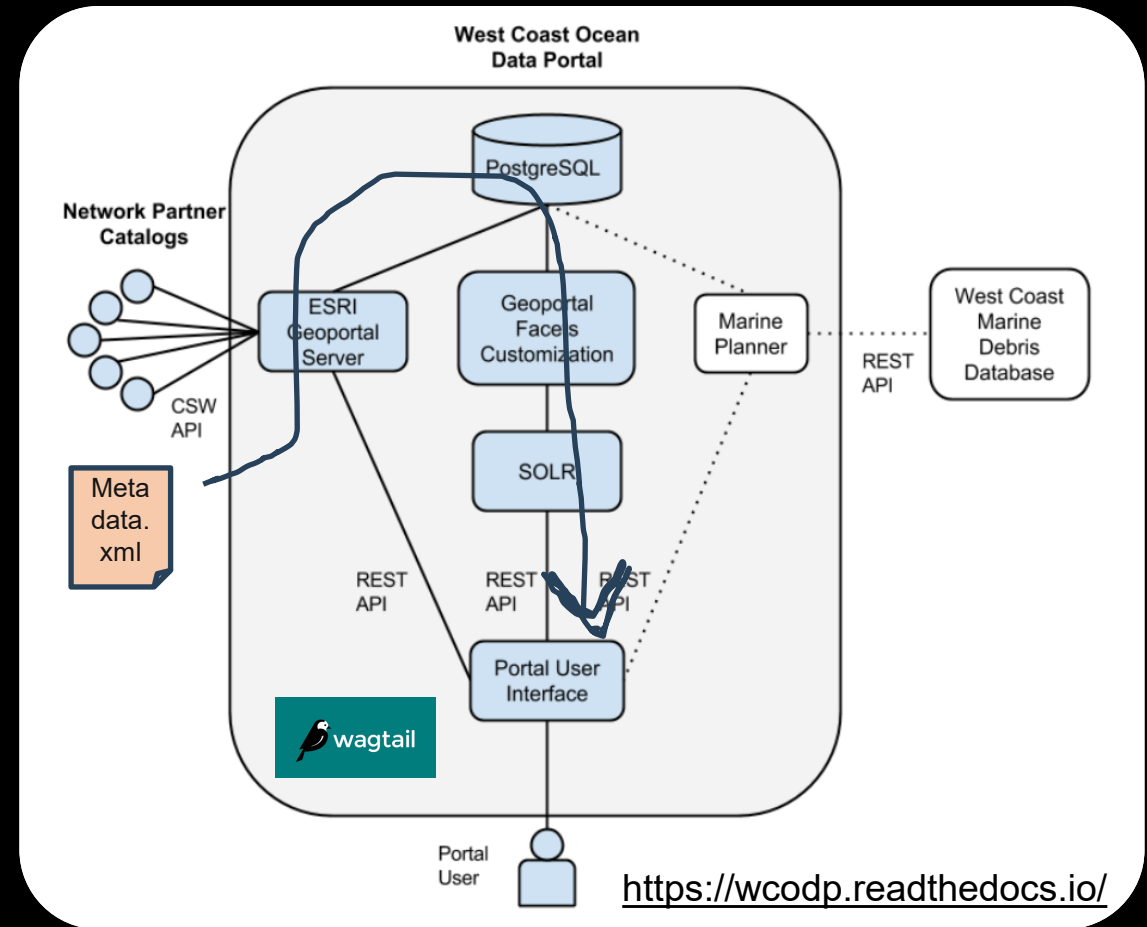
The screenshot shows the West Coast Ocean Data Portal homepage. At the top, there is a navigation bar with links for DISCOVER, CONNECT, INFORM, VISUALIZE, ABOUT, and LOG IN. Below the navigation bar, there is a large green banner with the text "WELCOME" and "Discover & contribute valuable data resources to inform ocean planning, policy development and resource management on the West Coast." To the right of the banner, there is a red box with the number "892" and the text "registered resources" and a search bar. Below the banner, there are several featured data categories: "Biological Data" (with a whale image), "Physical Data" (with a bathymetry map), "Oregon Offshore Wind Energy Planning Tool" (with a wind turbine image), and "Human Use Data" (with a kayaker image). At the bottom, there is an "EXPLORE" section with the text "Contributors: see who is contributing to the registry."



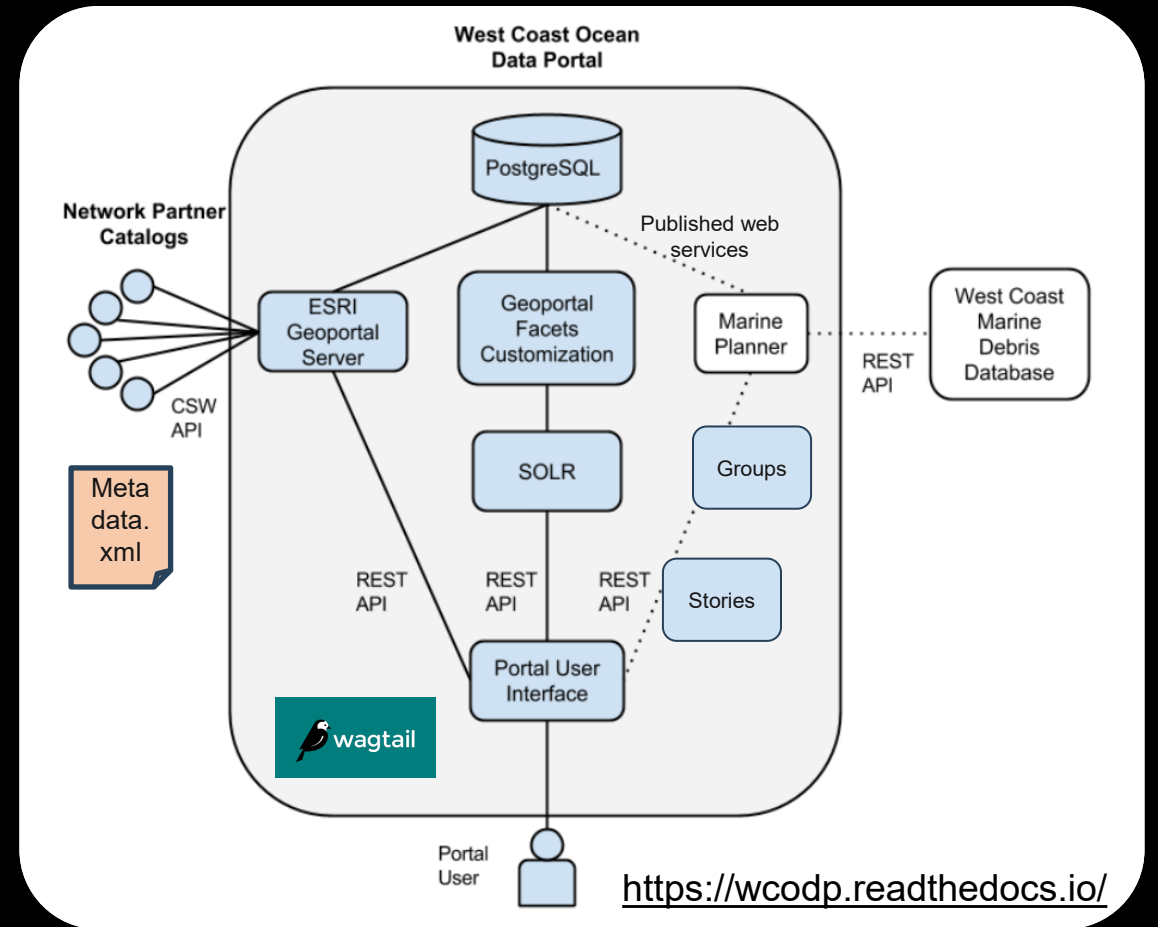
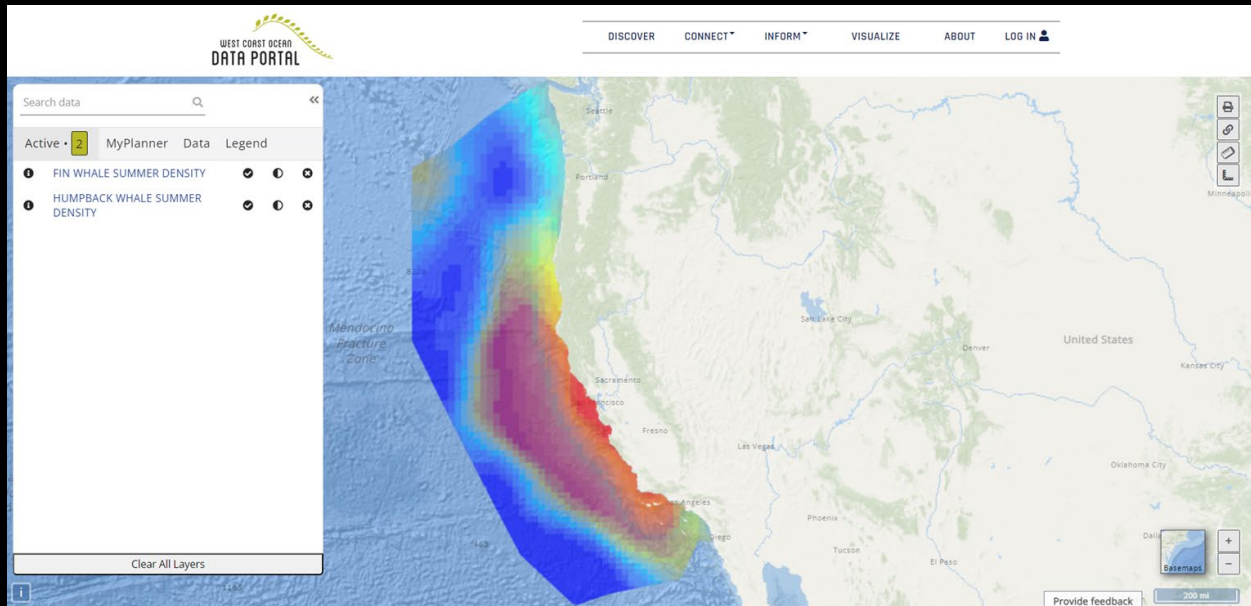
Portal Technology Overview



The screenshot shows the West Coast Ocean Data Portal interface. At the top, there is a navigation menu with links for DISCOVER, CONNECT, INFORM, VISUALIZE, ABOUT, and LOG IN. Below the menu is a search bar with the text "Search the Catalog...". On the left side, there is a sidebar with several filter categories: Map, Time Period, Date, Hierarchical Category, Metadata Type, Keywords, Origin Type, and Source of Origin. The main content area displays a list of items, with the first item being "2011 VESSEL DENSITY". The item description includes a snippet of HTML code and links for HTML, XML, and JSON. The second item is "2015 VESSEL TRANSIT COUNTS BY TYPE", and the third is "2016 VESSEL TRANSIT COUNTS BY TYPE". The fourth item is "2017 VESSEL TRANSIT COUNTS BY TYPE".



Portal Technology Overview





Marine Planner and Catalog Technology

Portal website and user interface

- Wagtail Content Management System (Python)

Harvest into catalog

- Web accessible folders
- ESRI Geoportal Server

Search the catalog

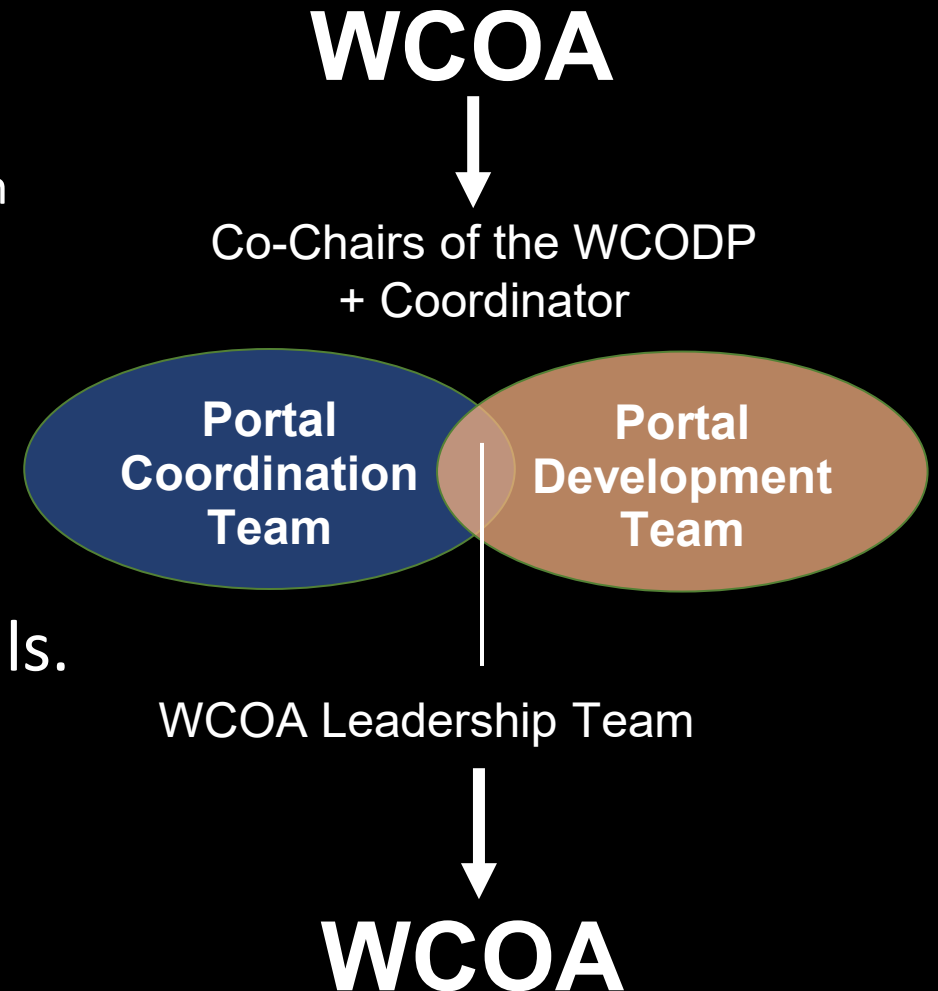
- JavaScript and HTML
- Geoportal Facet Customizations
- SOLR
- PostgreSQL/PostGIS

Marine Planner

- Open Layers
- Django data administrative database

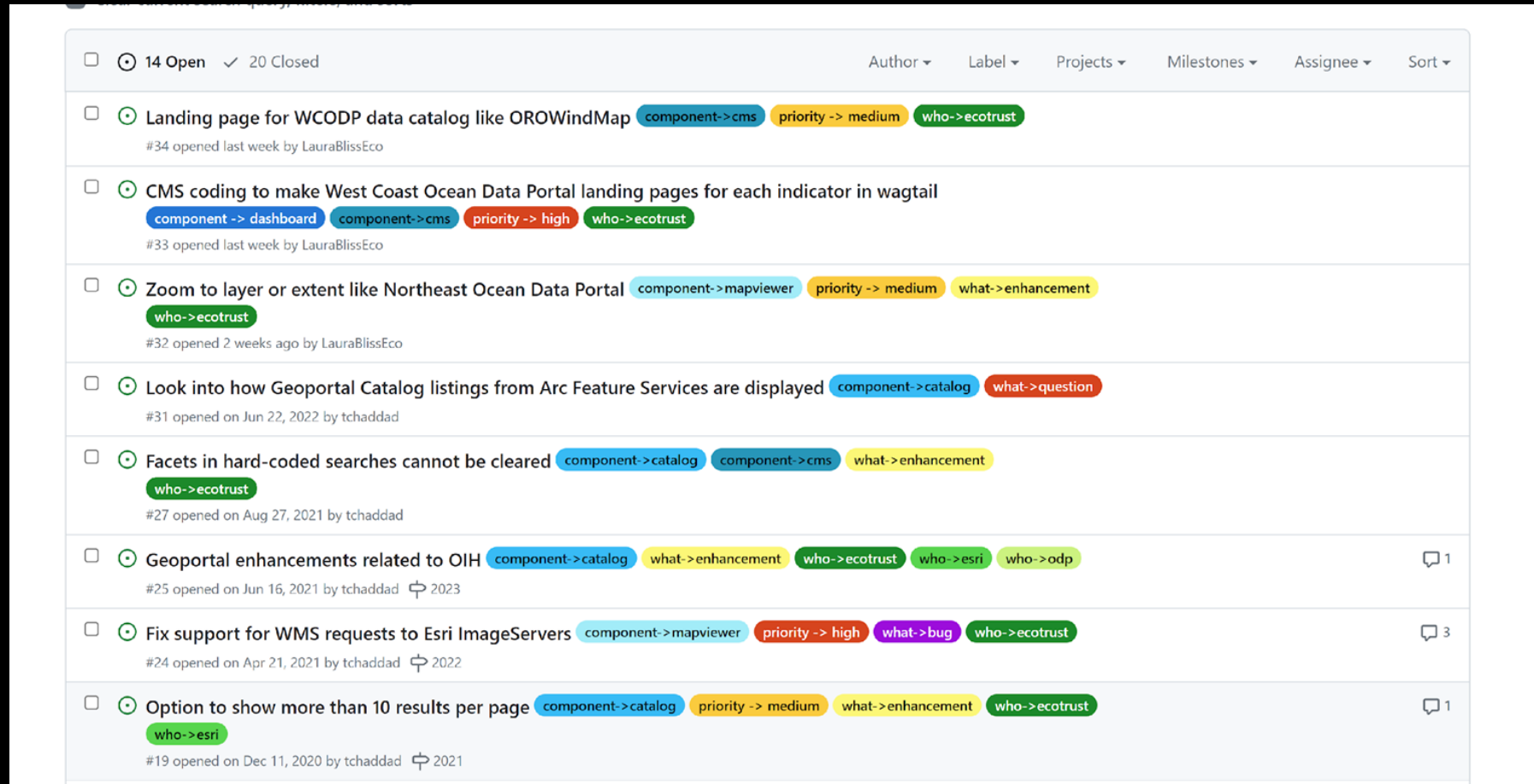
Technical Enhancement Process

- 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.).



Technical Enhancement Process

Enhancements are tracked, organized, and prioritized using GitHub.



The screenshot displays a GitHub Issues page for the West Coast Ocean Data Portal. The page shows a list of 14 open issues, each with a title, a description, and various labels indicating the component, priority, and assignee. The issues are sorted by date, with the most recent at the top. The labels used include 'component->cms', 'priority->medium', 'who->ecotrust', 'component->dashboard', 'priority->high', 'component->mapviewer', 'what->enhancement', 'component->catalog', 'what->question', 'what->enhancement', 'who->ecotrust', 'who->esri', 'who->odp', 'priority->high', 'what->bug', 'priority->medium', and 'what->enhancement'. The issues are numbered #34, #33, #32, #31, #27, #25, #24, and #19.

Issue ID	Title	Component	Priority	Assignee	Created
#34	Landing page for WCODP data catalog like OROWindMap	component->cms	priority->medium	who->ecotrust	opened last week by LauraBlissEco
#33	CMS coding to make West Coast Ocean Data Portal landing pages for each indicator in wagtail	component->dashboard, component->cms	priority->high	who->ecotrust	opened last week by LauraBlissEco
#32	Zoom to layer or extent like Northeast Ocean Data Portal	component->mapviewer	priority->medium	what->enhancement, who->ecotrust	opened 2 weeks ago by LauraBlissEco
#31	Look into how Geoportal Catalog listings from Arc Feature Services are displayed	component->catalog	what->question		opened on Jun 22, 2022 by tchaddad
#27	Facets in hard-coded searches cannot be cleared	component->catalog, component->cms	what->enhancement	who->ecotrust	opened on Aug 27, 2021 by tchaddad
#25	Geoportal enhancements related to OIH	component->catalog	what->enhancement	who->ecotrust, who->esri, who->odp	opened on Jun 16, 2021 by tchaddad
#24	Fix support for WMS requests to Esri ImageServers	component->mapviewer	priority->high	what->bug, who->ecotrust	opened on Apr 21, 2021 by tchaddad
#19	Option to show more than 10 results per page	component->catalog	priority->medium	what->enhancement, who->ecotrust, who->esri	opened on Dec 11, 2020 by tchaddad

<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

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 (NWFS)
- 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

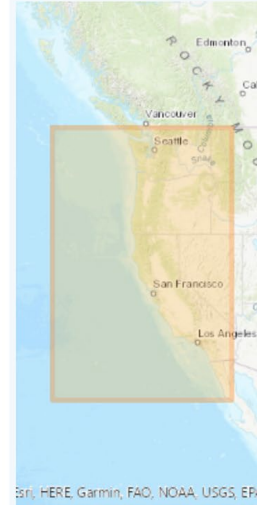
- Esri ArcGIS Online
- The Pacific States Marine Fisheries Commission (PMEP)

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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CREATOR
US DOC; NOAA; NOS; NATIONAL CENTERS FOR COASTAL OCEAN SCIENCE (NCCOS)

PUBLISHER
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Src: 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.