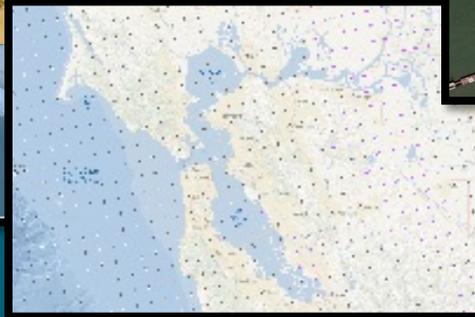
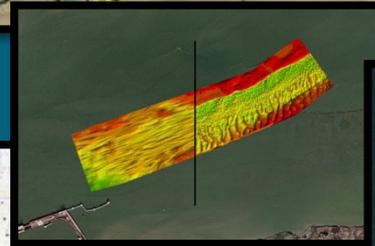
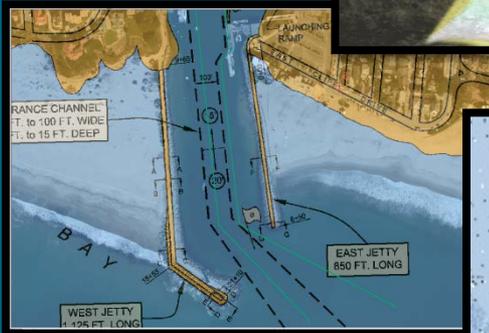
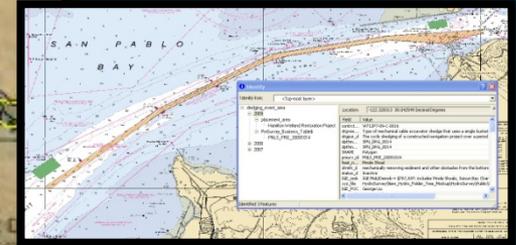
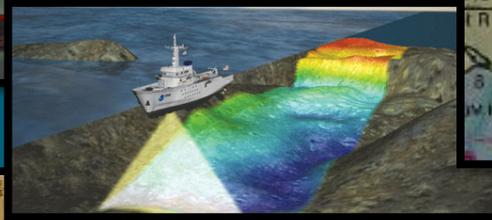


# Coastal Sediment Management Workgroup

# GIS Support

Orange County – June 12, 2014

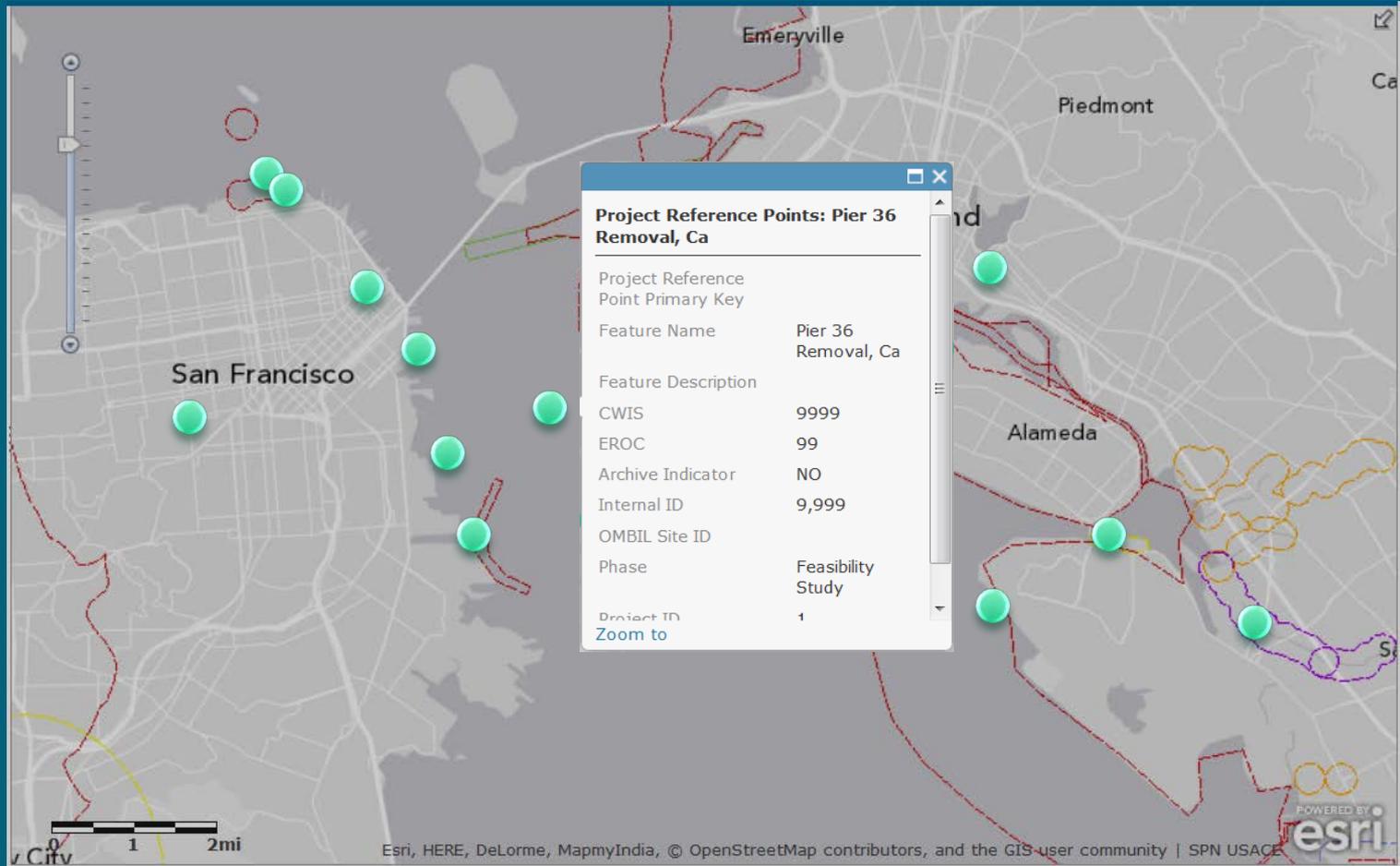


# What is GIS?

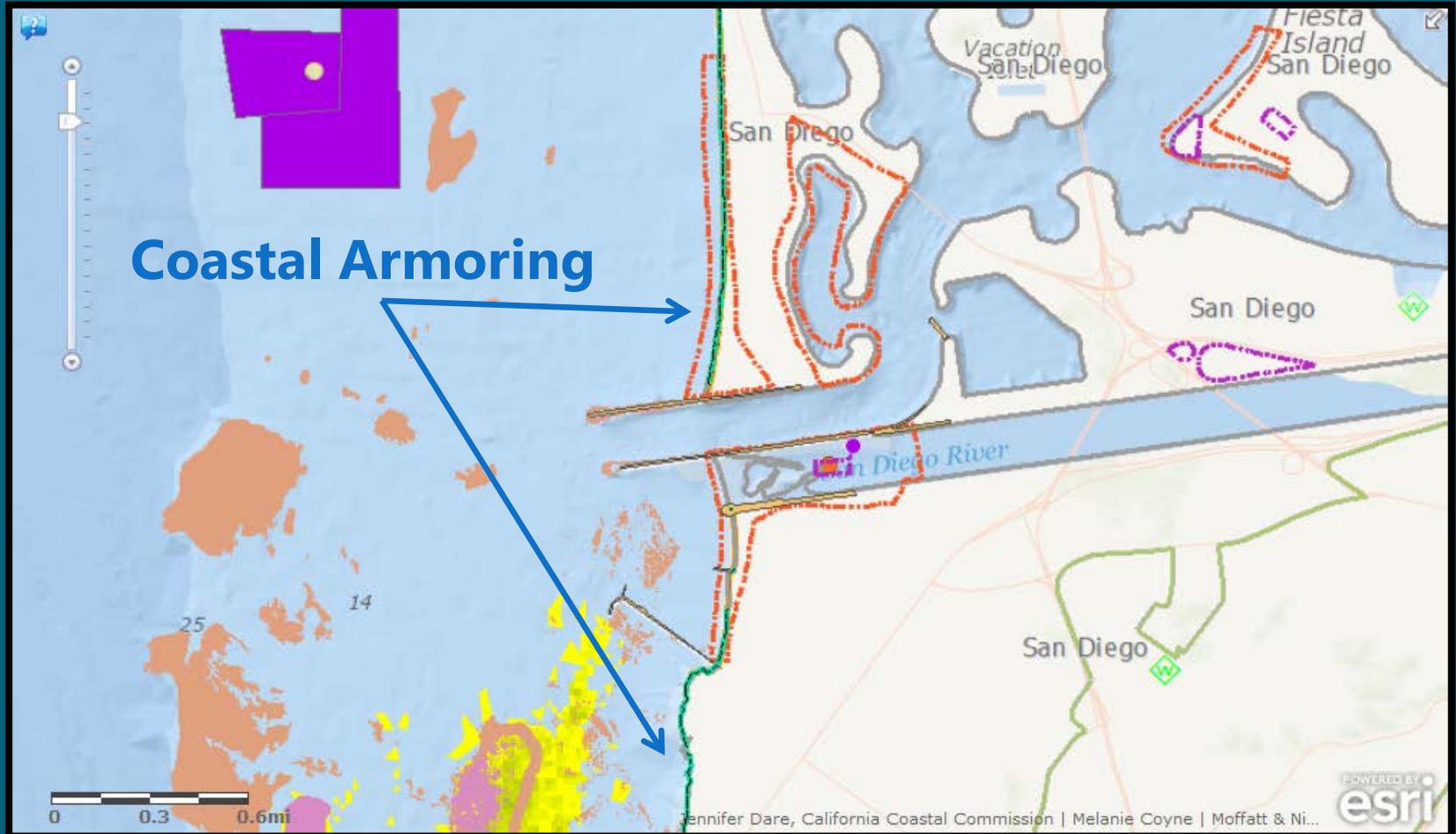
## Geographic Information System



# What is GIS?



# What data is CSMW Collecting?

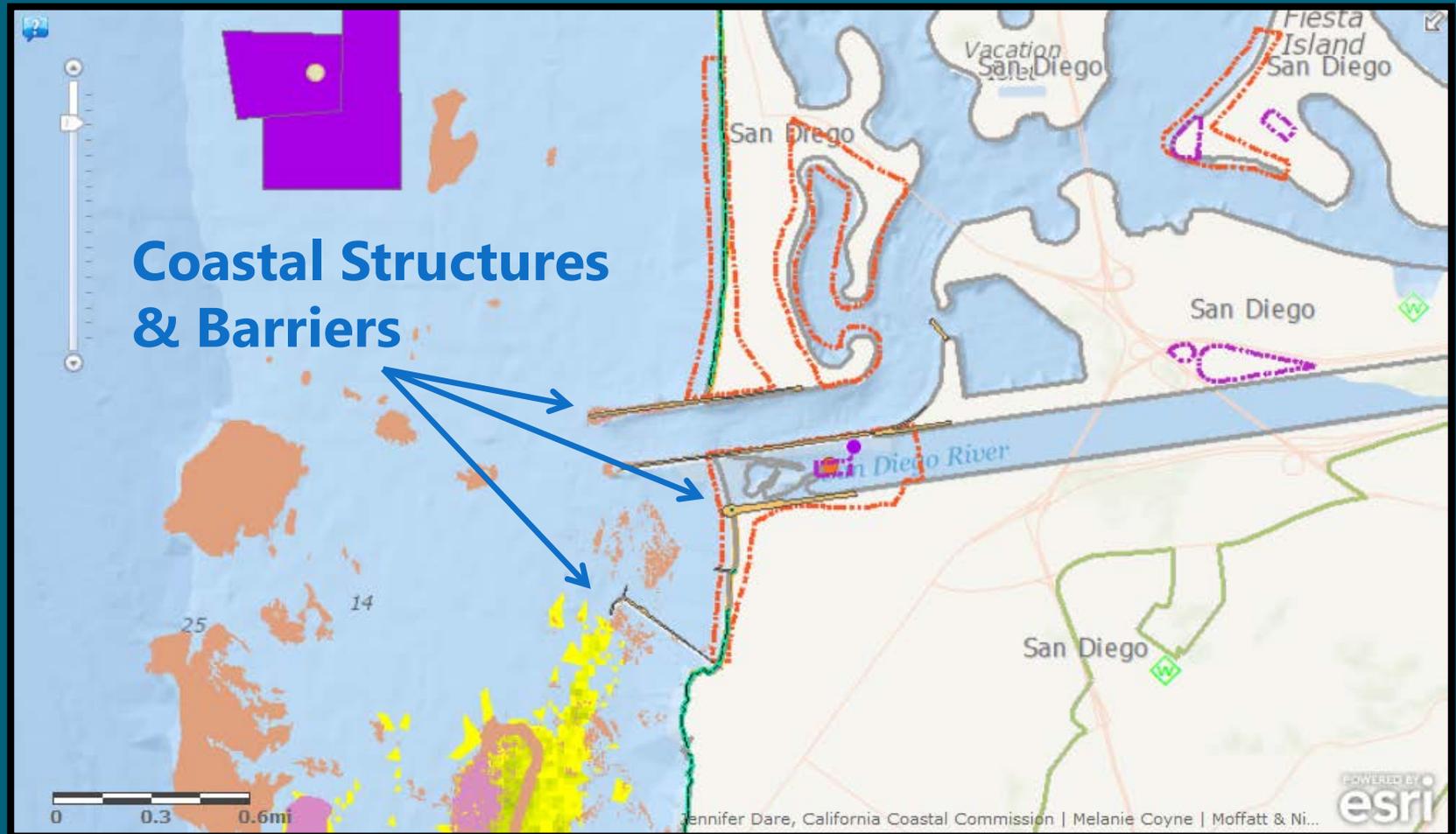


Jennifer Dare, California Coastal Commission | Melanie Coyne | Moffatt & Ni...

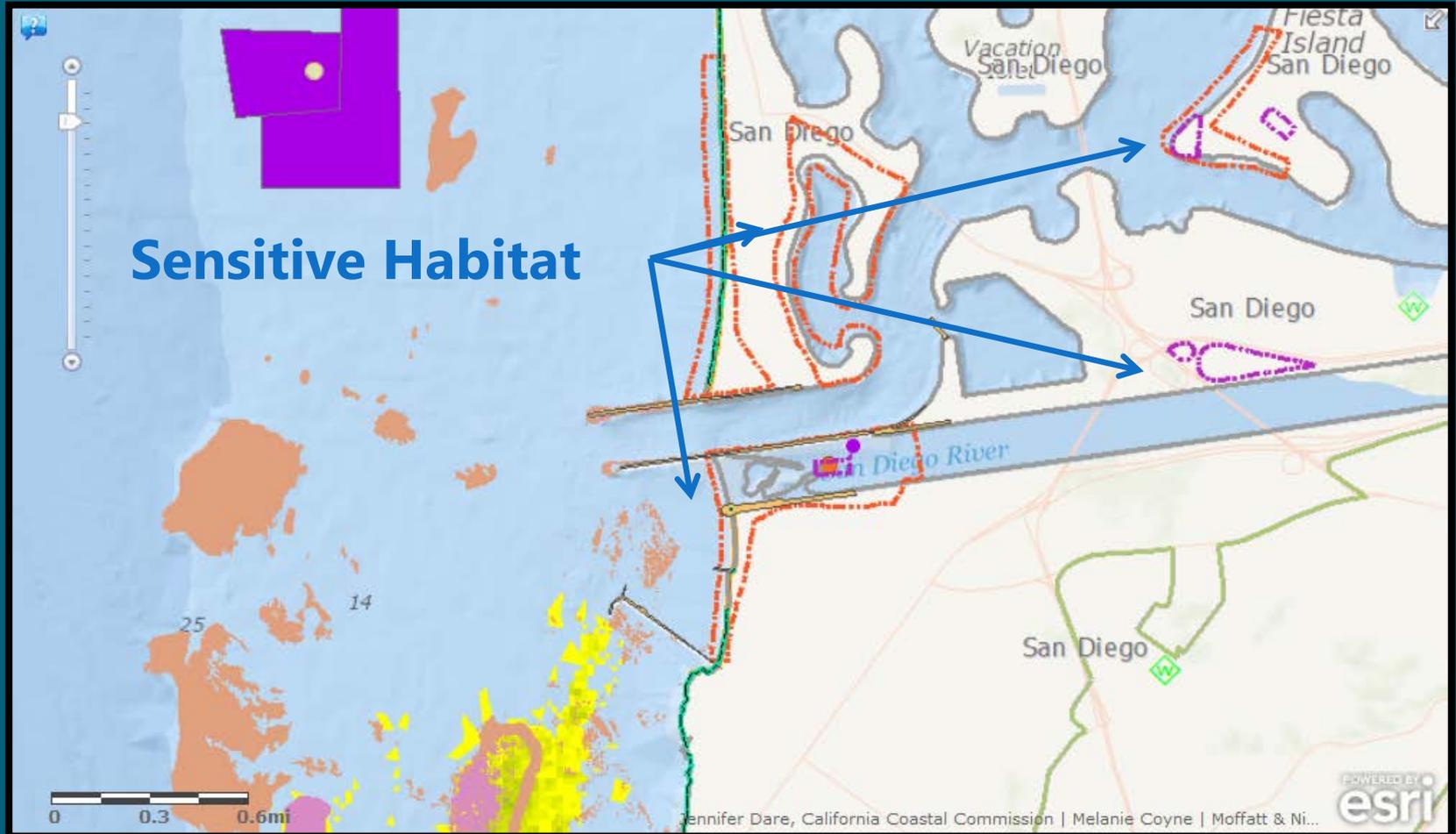
POWERED BY  
esri



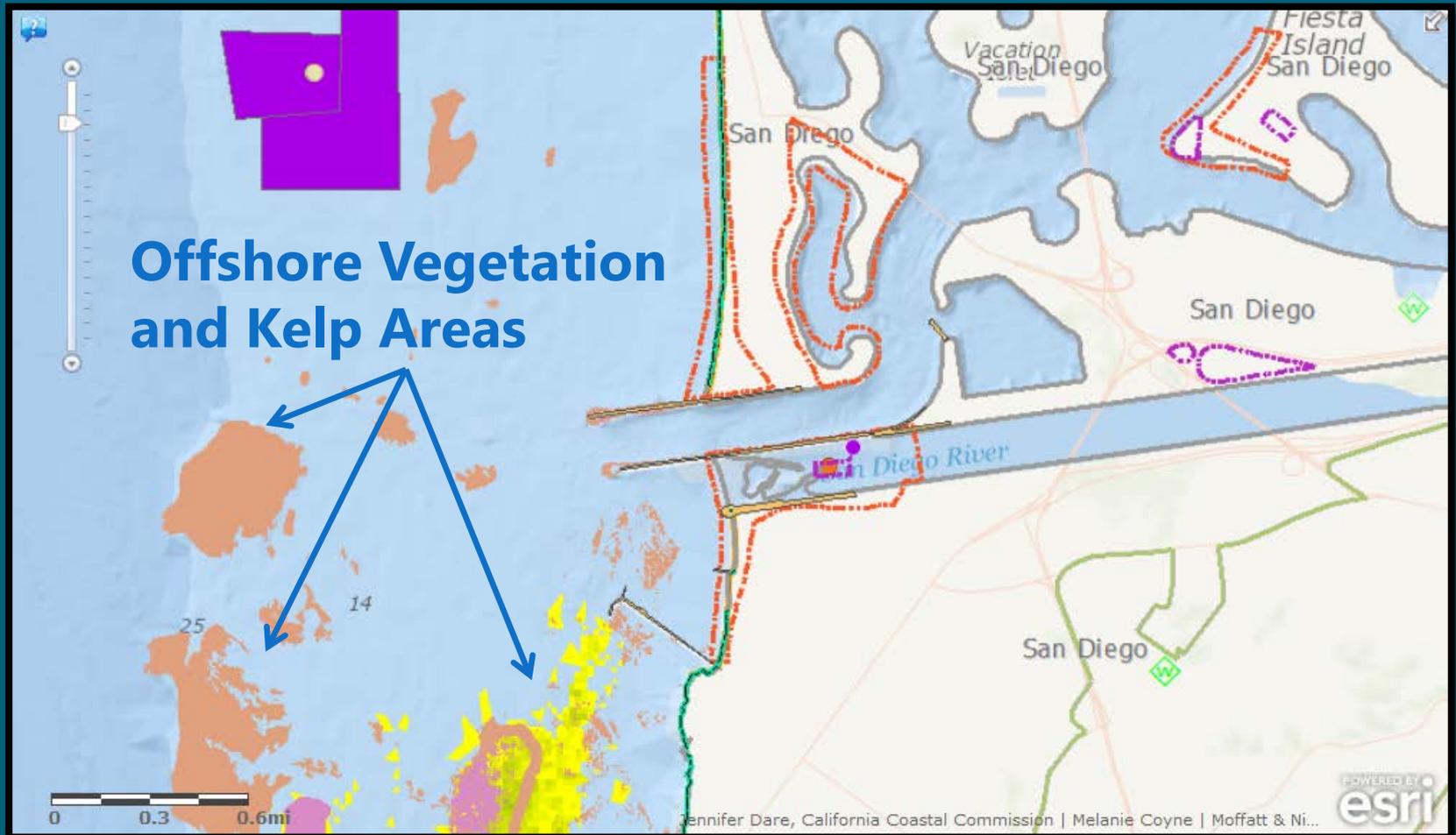
# What data is CSMW Collecting?



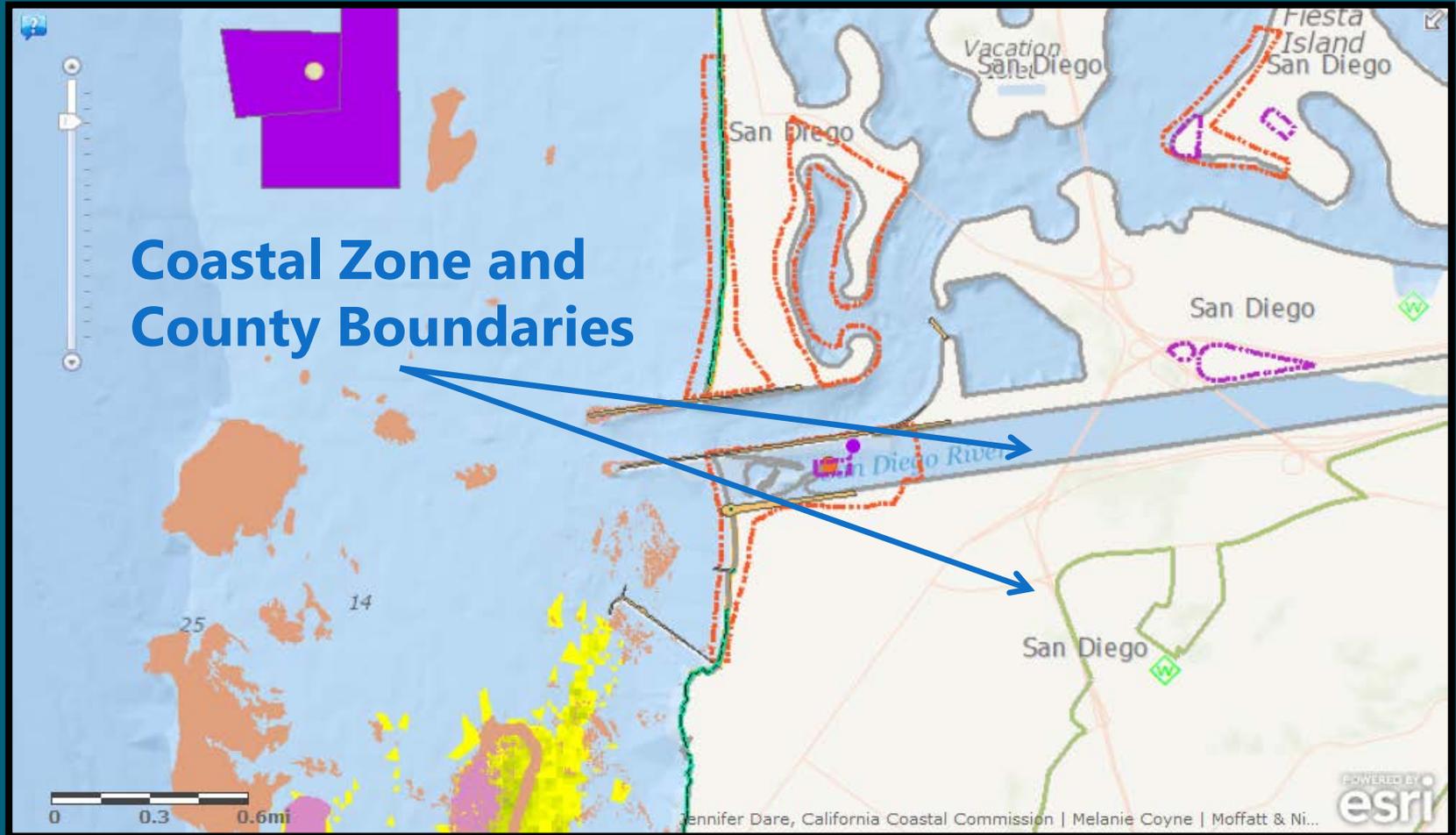
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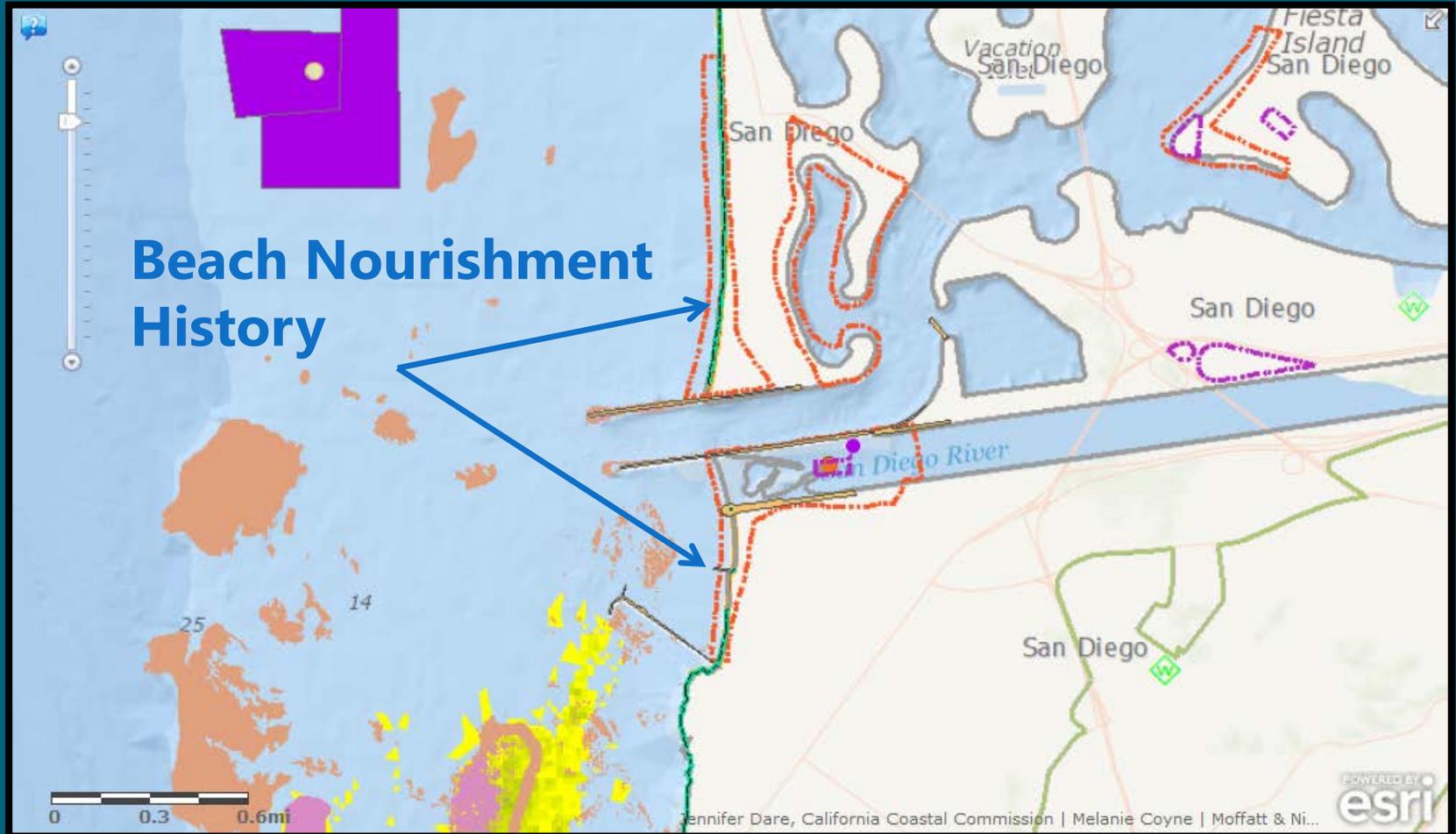
# What data is CSMW Collecting?



# What data is CSMW Collecting?



# What data is CSMW Collecting?



Beach Nourishment History

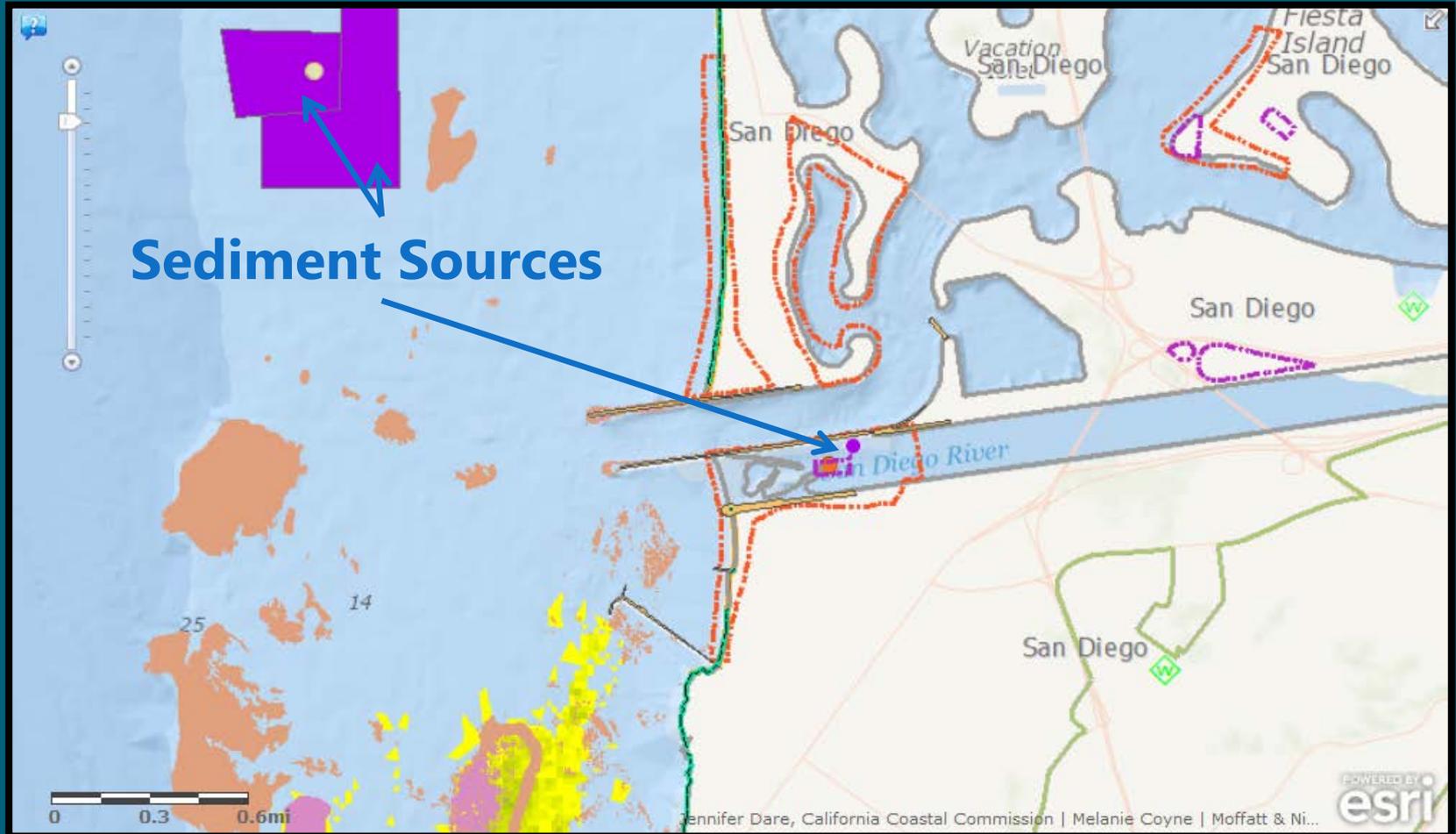
0 0.3 0.6mi

Jennifer Dare, California Coastal Commission | Melanie Coyne | Moffatt & Ni...

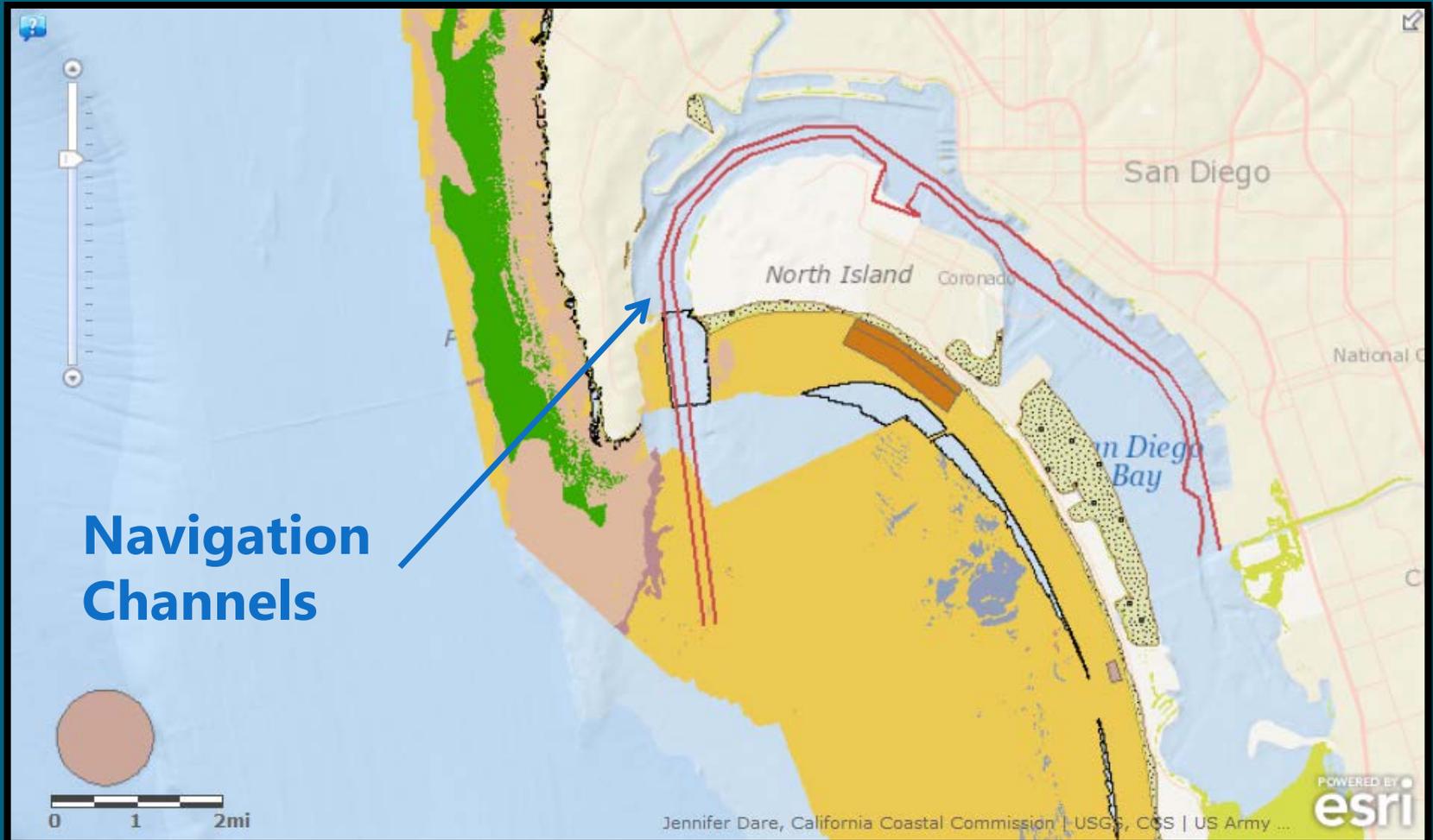
POWERED BY esri



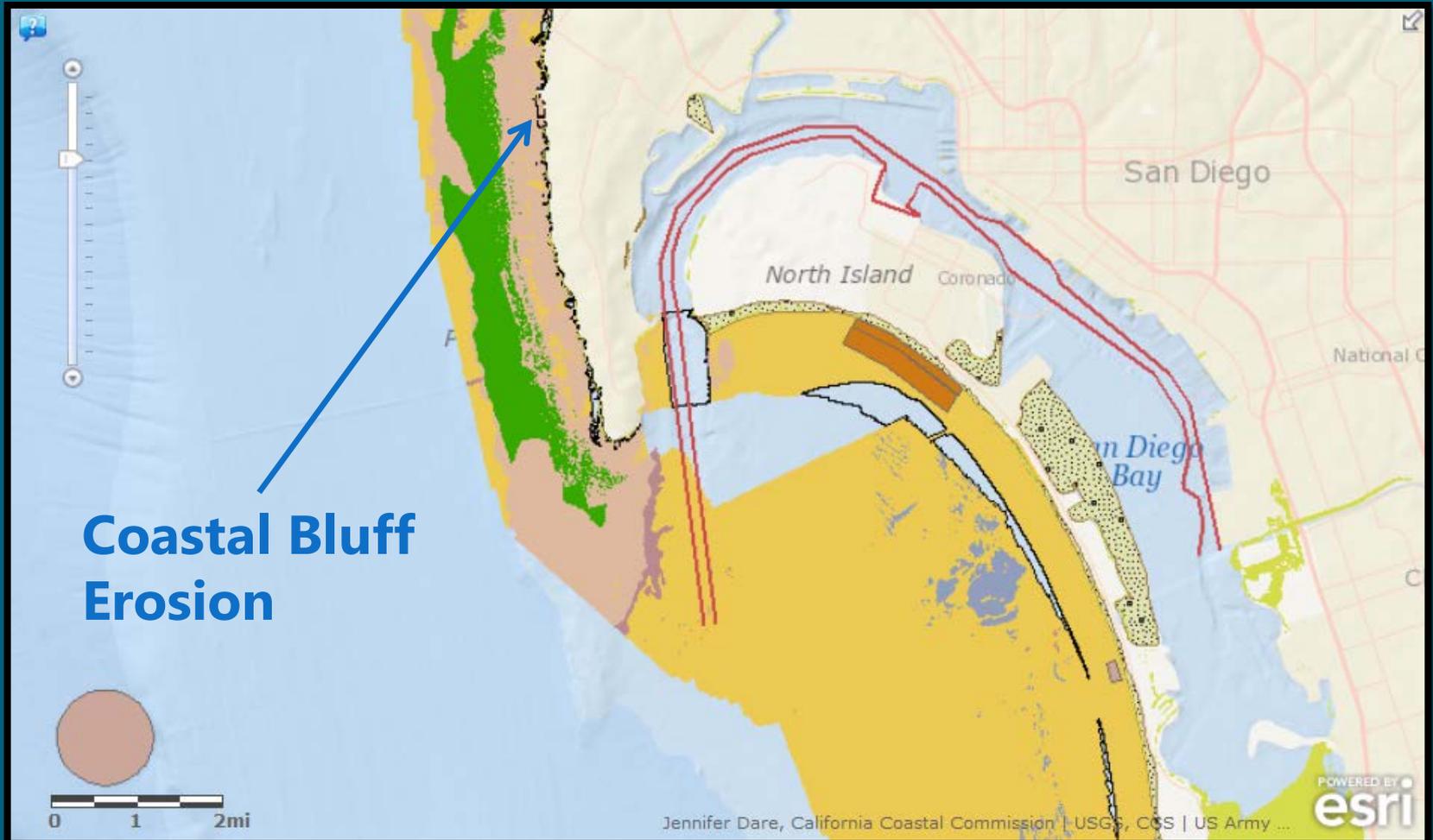
# What data is CSMW Collecting?



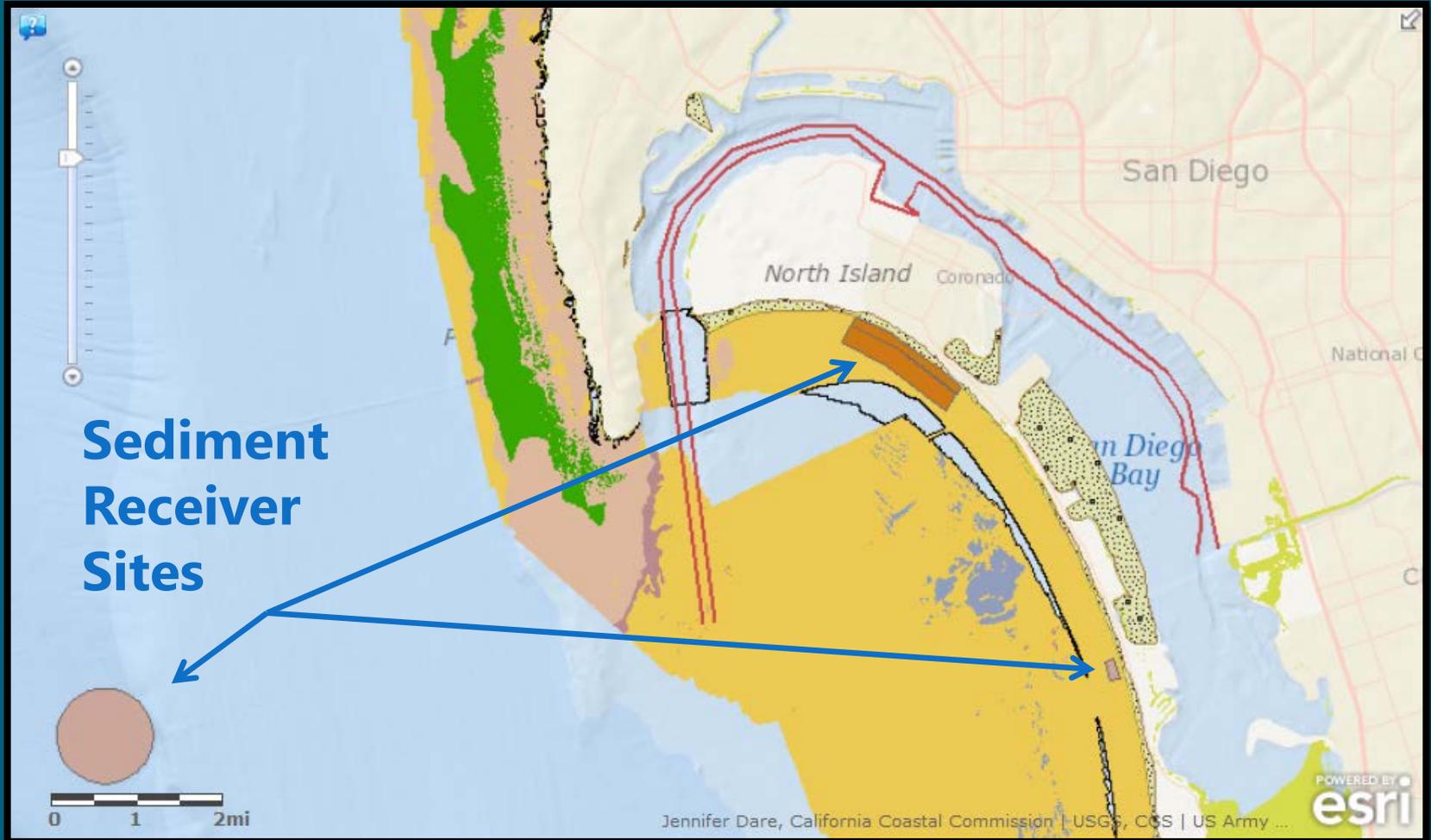
# What data is CSMW Collecting?



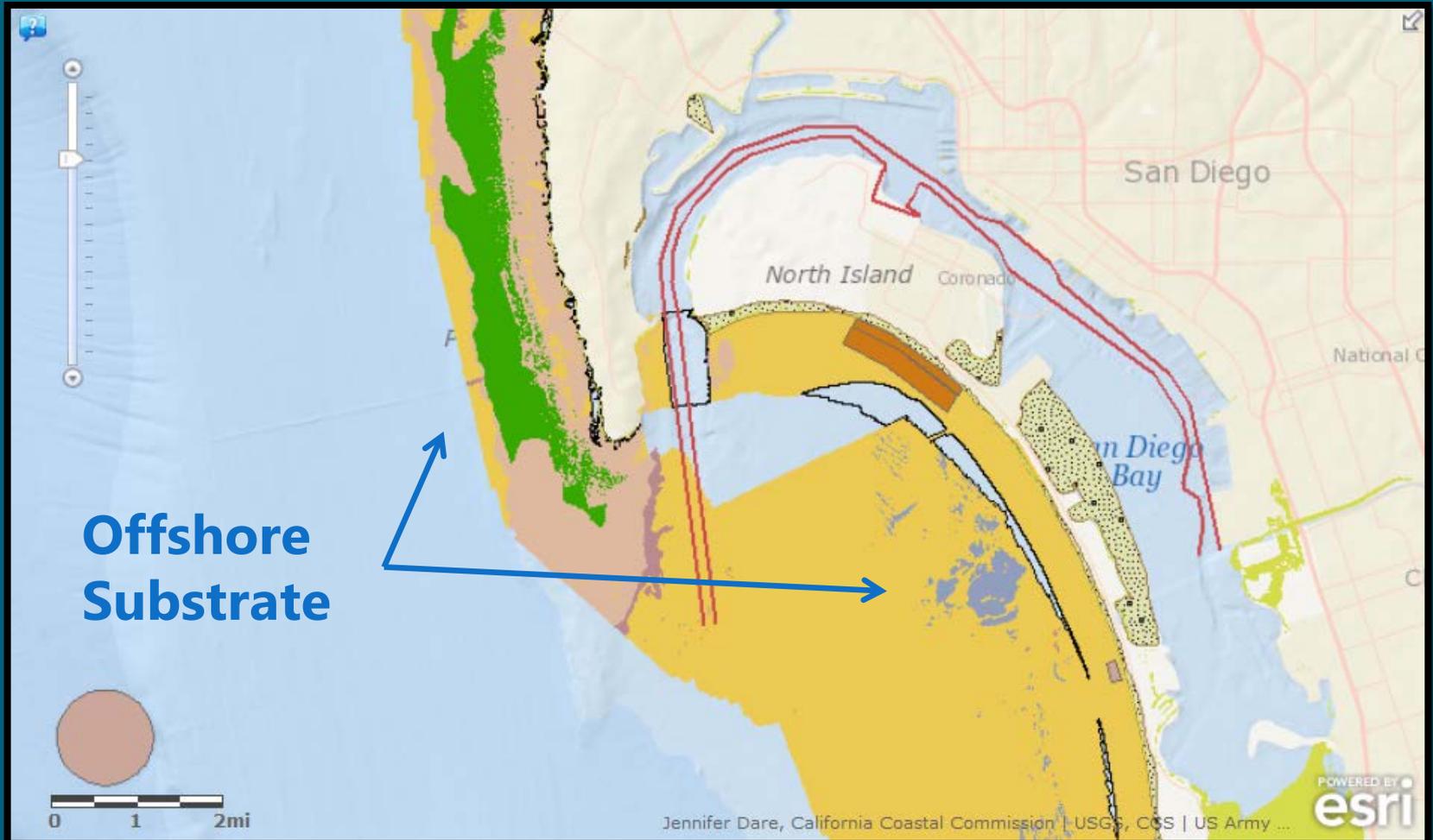
# What data is CSMW Collecting?



# What data is CSMW Collecting?



# What data is CSMW Collecting?

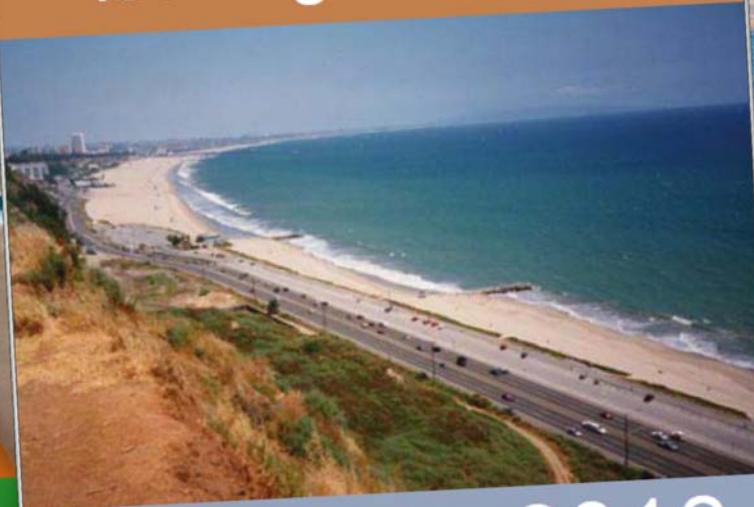


# Who?



## COASTAL REGIONAL SEDIMENT MANAGEMENT PLAN FOR THE SAN DIEGO REGION

los angeles county



# CRSMP 2012

coastal regional sediment management plan



Coastal Regional Sediment Management Plan  
Central Coast from Pt. Conception to Pt. Mugu



Orange County  
Coastal Regional Sediment  
Management Plan

Prepared for  
U.S. Army Corps of Engineers  
County of Orange  
California Coastal Sediment Management Workgroup

Prepared by  
Everest International Consultants, Inc.  
In Association with  
Science Applications International Corporation  
Dr. Philip King

June, 2013

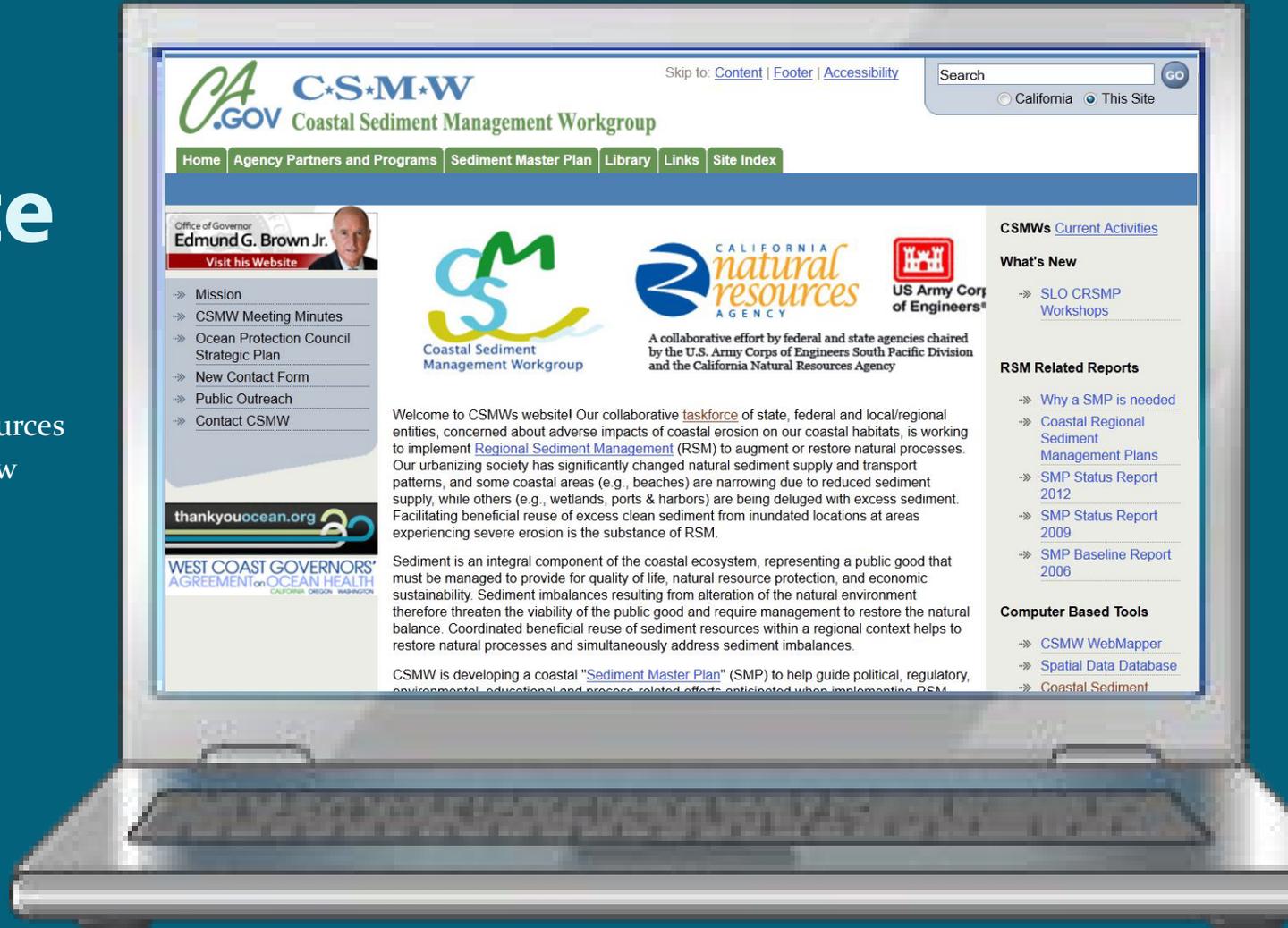
Report

January 2009



# CSMW Website

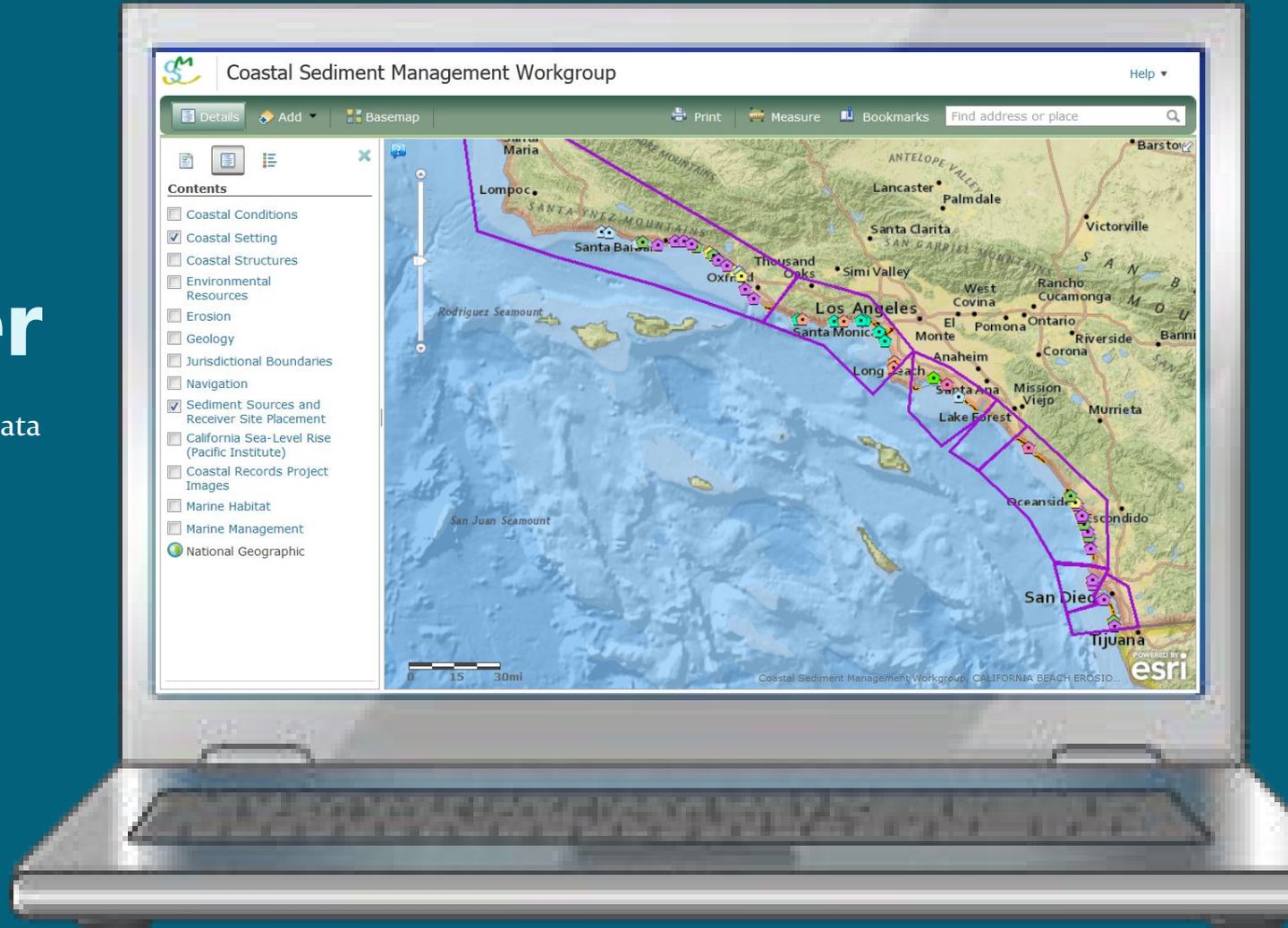
Access all CSMW Resources  
<http://dbw.ca.gov/csmw>



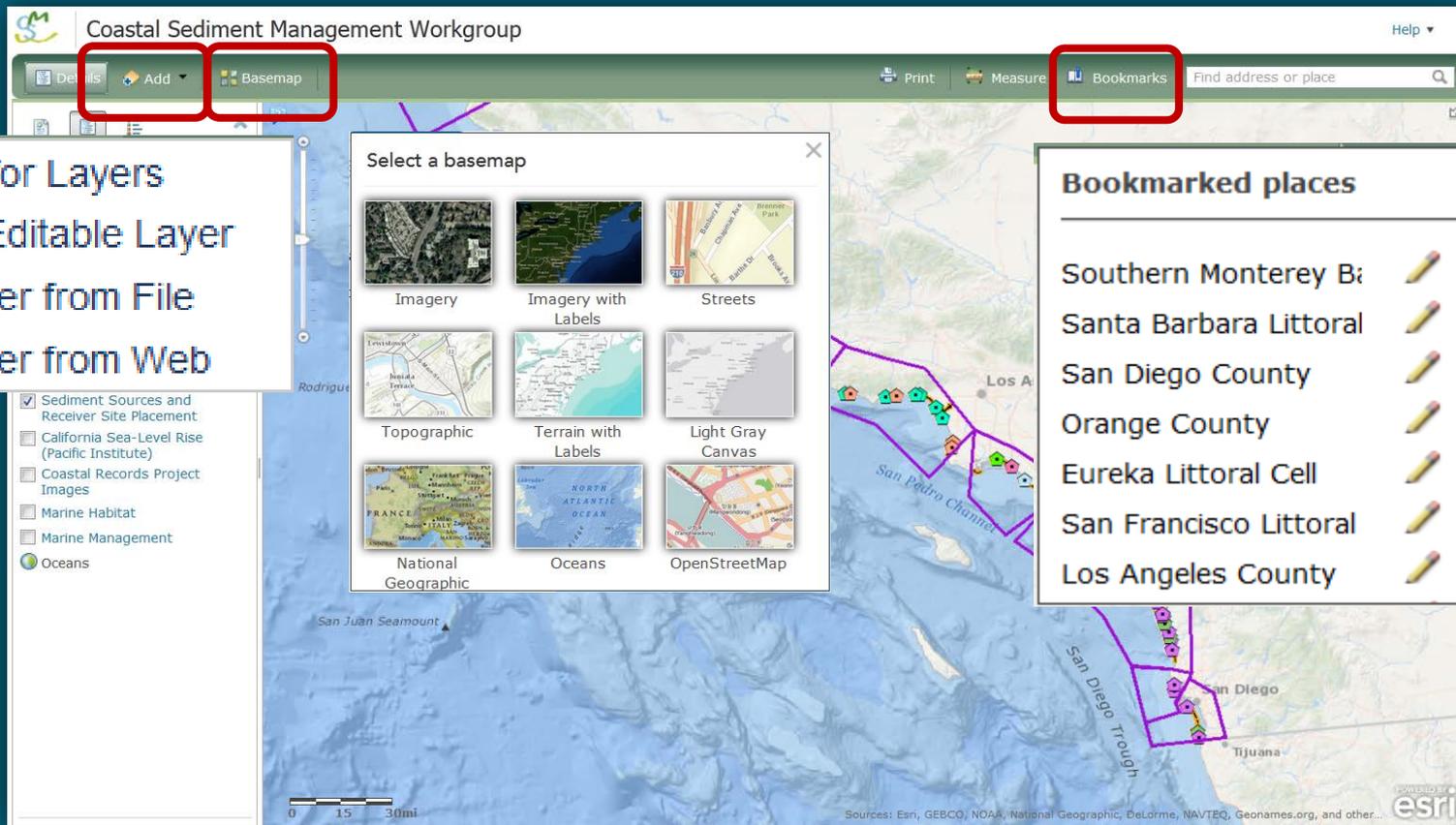
## Where to Access CSMW Data

# CSMW Web Mapper

Explore and view GIS data



## Where to Access CSMW Data



Search for Layers  
Create Editable Layer  
Add Layer from File  
Add Layer from Web

- Sediment Sources and Receiver Site Placement
- California Sea-Level Rise (Pacific Institute)
- Coastal Records Project Images
- Marine Habitat
- Marine Management
- Oceans

### Select a basemap

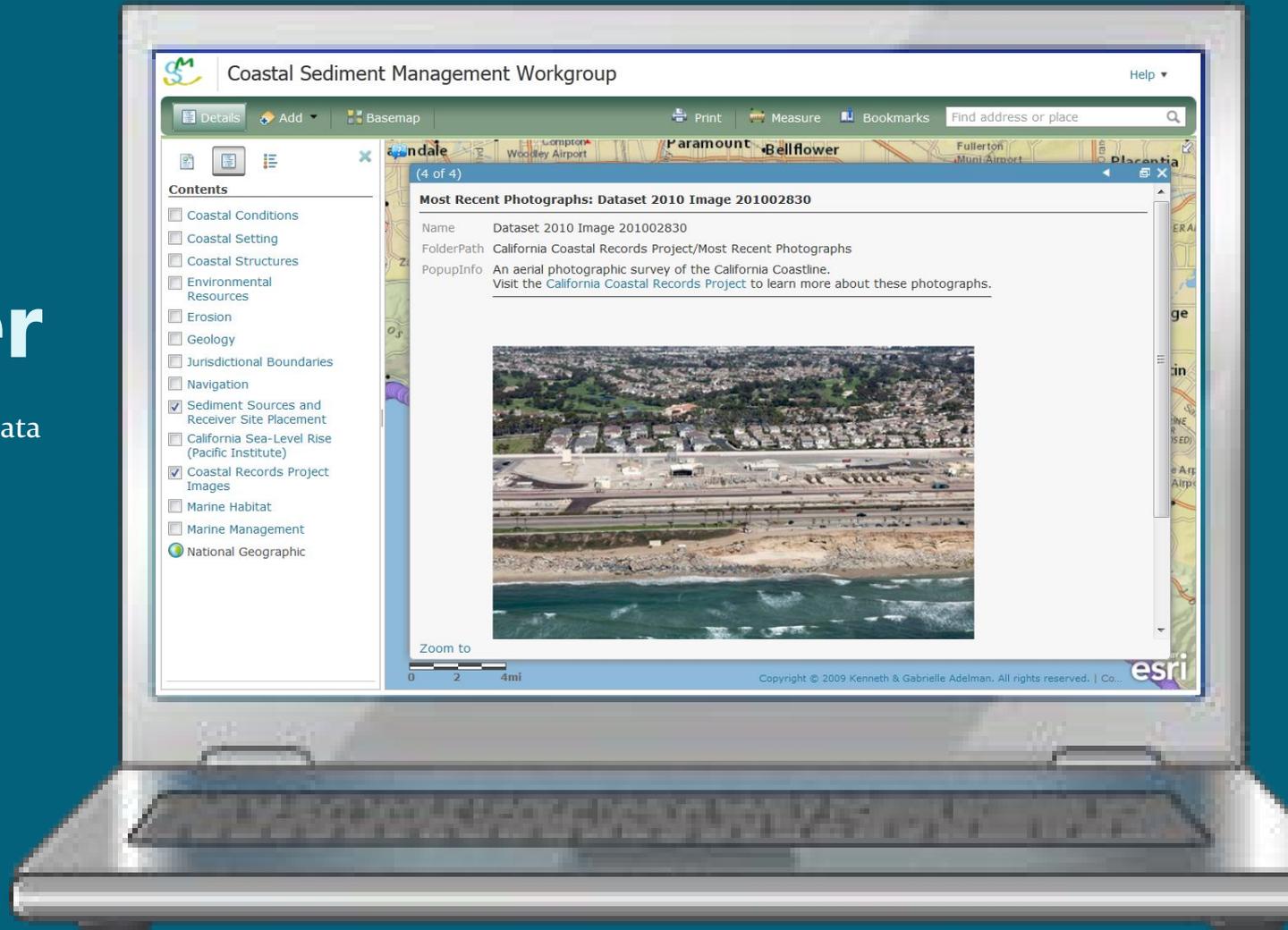
Imagery	Imagery with Labels	Streets
Topographic	Terrain with Labels	Light Gray Canvas
National Geographic	Oceans	OpenStreetMap

### Bookmarked places

Southern Monterey Bay		
Santa Barbara Littoral		
San Diego County		
Orange County		
Eureka Littoral Cell		
San Francisco Littoral		
Los Angeles County		

# CSMW Web Mapper

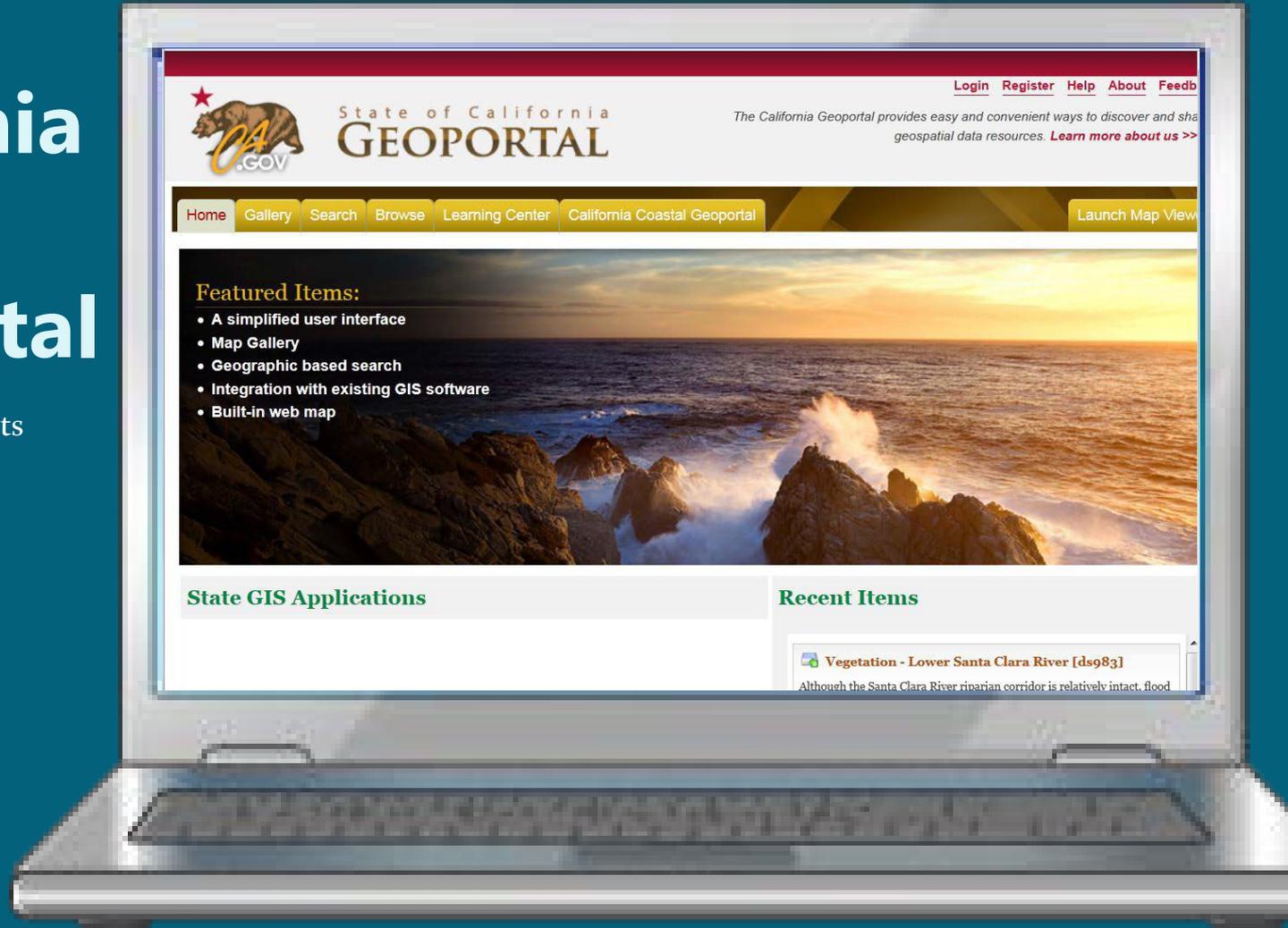
Explore and view GIS data



## Where to Access CSMW Data

# California State Geoportal

Access state GIS datasets



## Where to Access CSMW Data

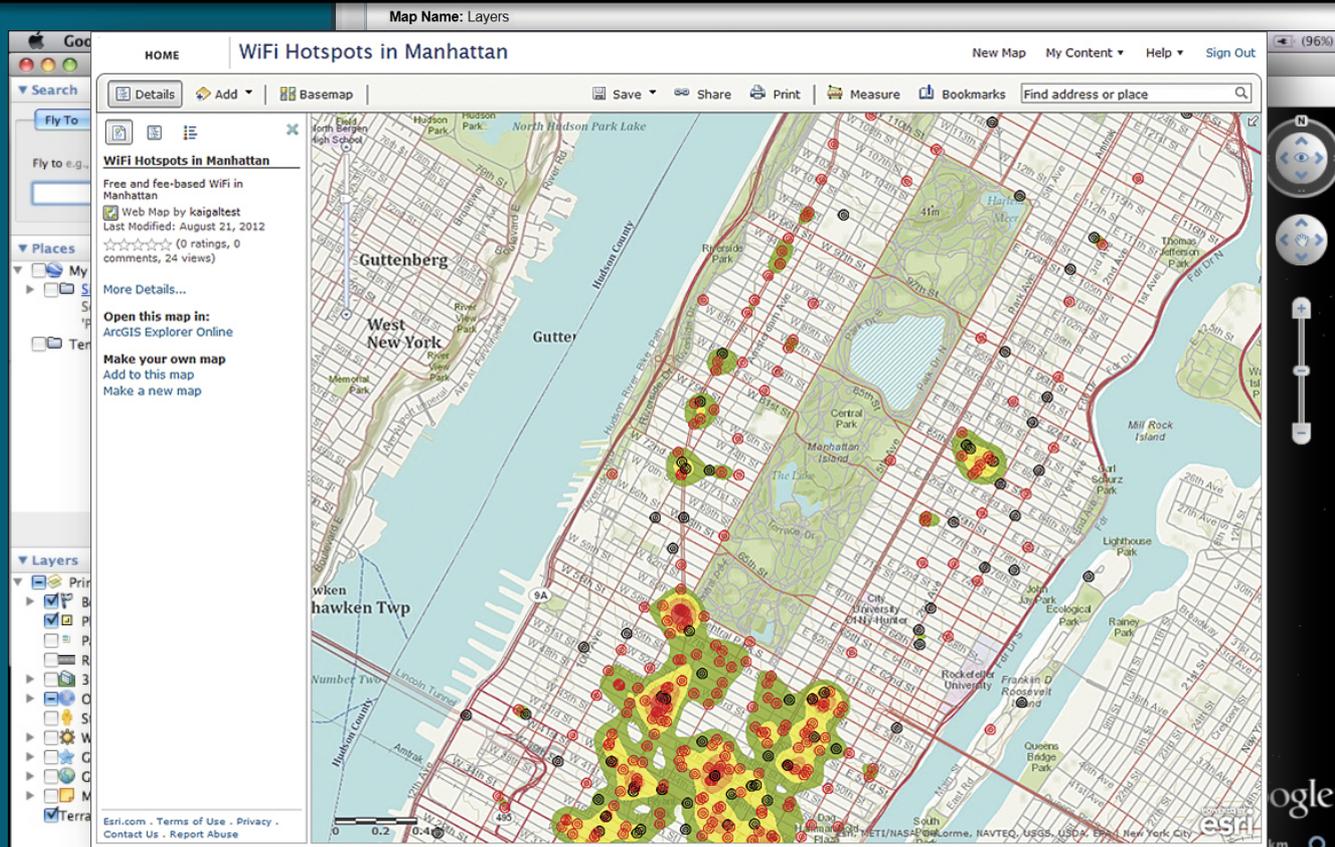
# How?

ArcGIS Services Directory

Home > Ocean > CSMW\_Beach\_Nourishment\_History (MapServer)

Ocean/CSMW\_Beach\_Nourishment\_History (MapServer)

View In: [ArcMap](#) [ArcGIS Explorer](#) [ArcGIS JavaScript](#) [Google Earth](#) [ArcGIS.com Map](#)



# CSMW Reference Database

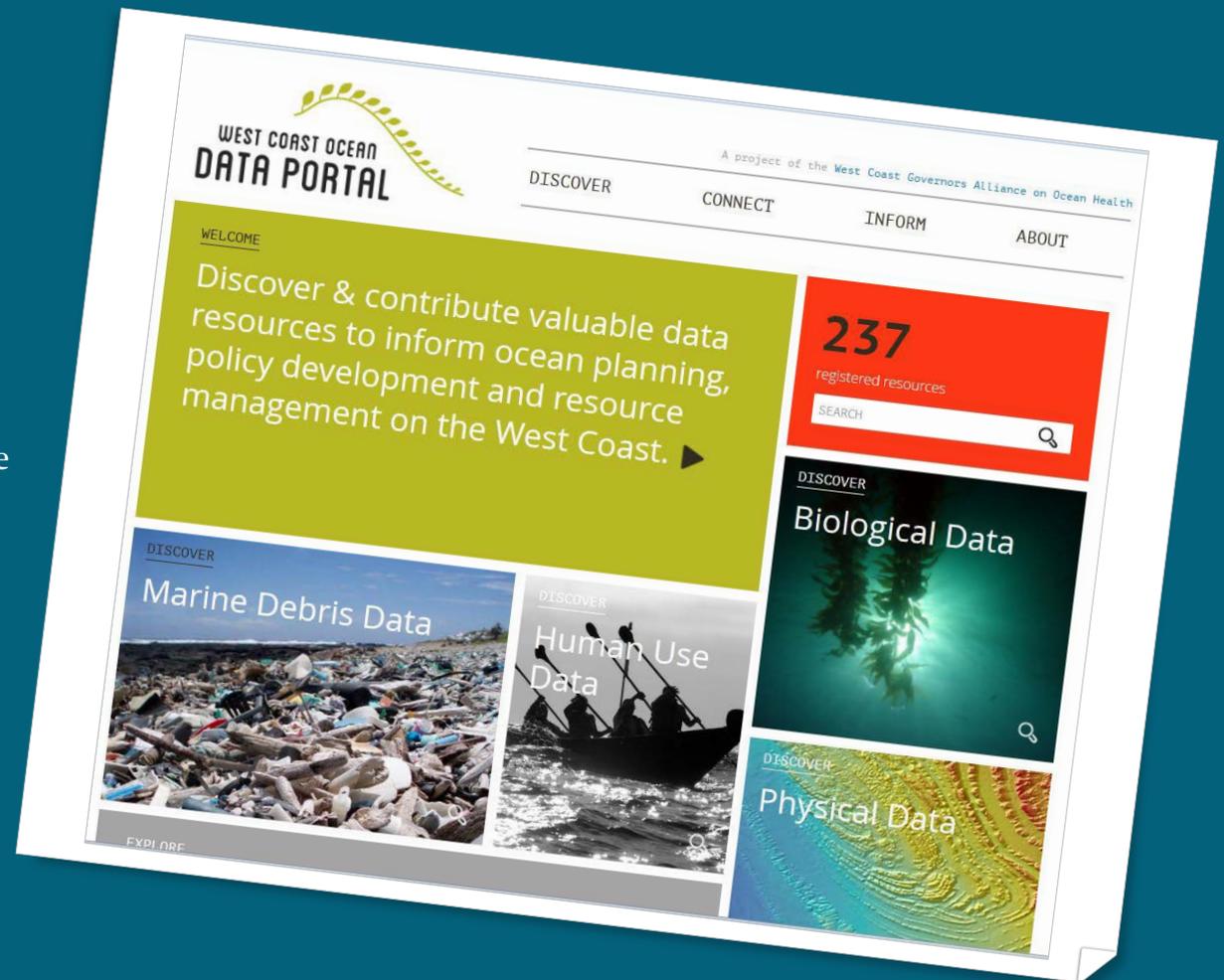
Search Bibliographic References  
and Access Journal Articles

The screenshot shows the search interface for the California Sediment Master Plan Coastal Sediment Reference Database. At the top, the title "CALIFORNIA SEDIMENT MASTER PLAN COASTAL SEDIMENT REFERENCE DATABASE" is displayed in a black banner. To the right of the title is the logo for the Coastal Sediment Management Workgroup (CSMW), which consists of the letters "CSM" in green and yellow. Below the title banner, the US Army Corps of Engineers logo is on the left, and a link to "Contact the Content Manager" is on the right. The main search area is divided into three sections. The first section is for searching by subject, with a "clear" button and instructions: "Search by Subject | Begin by selecting a category. Options for a subcategory and, if applicable, a subsubcategory will autopopulate based on your category selection." Below this is a "Select a Category" dropdown menu with the text "Select from the items below ....". The second section is for searching by location, with a "clear" button and instructions: "Search by Location | Begin by selecting a general area. Options for Region, County and Littoral Cell will autopopulate based on your selections." Below this is a "Select a General Area" dropdown menu with the text "Select from the items below ....". The third section is for searching by author, title, or keywords, with instructions: "Search records by author, title, or keywords | The more fields entered, the more selective the search results." Below this are three input fields labeled "Author Name", "Title", and "Keyword". At the bottom of the search area are "Submit" and "Clear" buttons.

## Additional Resources

# West Coast Ocean Data Portal

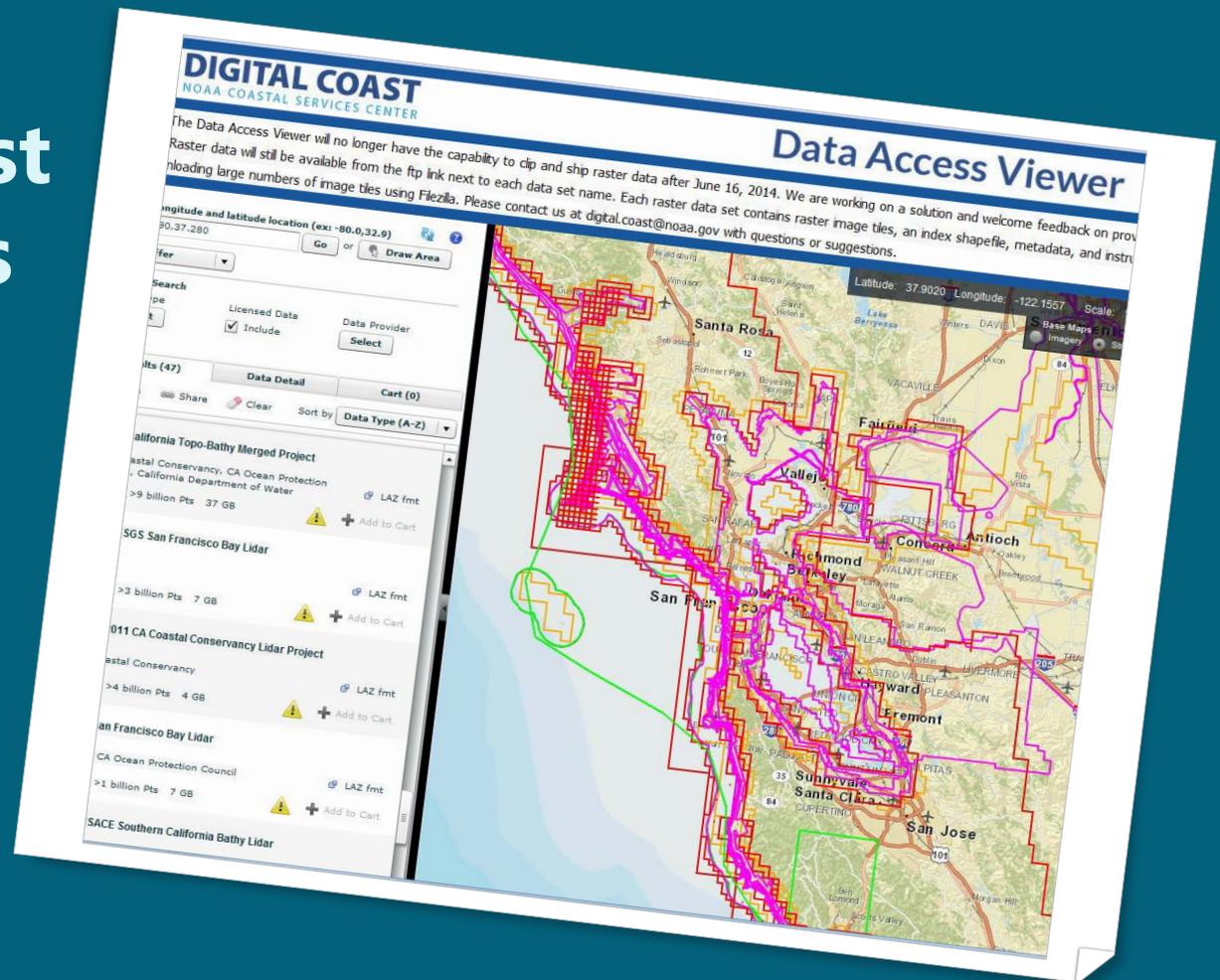
Search Datasets Relevant to the West Coast Ocean and Coast



## Additional Resources

# NOAA Digital Coast Data Access Viewer

Access Lidar and Other Digital  
Terrain and Elevation Models



## Additional Resources

# The Seafloor Mapping Lab

Access Bathymetric Survey Data

Home Partners History Products Progress Data Catalog

## California Seafloor Mapping Project

### A Collaborative Effort

The California Seafloor Mapping Project (CSMP) is a collaborative, multi-institutional campaign creating the first comprehensive, high-resolution basemap of California's state waters (shoreline out to 3 nautical miles). Sponsored by the California Ocean Protection Council, State Coastal Conservancy, Department of Fish and Game, and several branches of the National Ocean and Atmospheric Administration (NOAA), this statewide project is being conducted as a public/private partnership involving industry, resource management agencies and academia. The tiered mapping campaign involves the use of state-of-the-art sonar, LIDAR (Light Detection and Ranging) and video mapping technologies; computer aided classification and visualization; expert geologic and habitat interpretations; and the creation of an online, publicly accessible data repository for the dissemination of CSMP products. Final products will include a folio series of multi-layer strip maps spanning California's land/sea margin showing the seafloor and coastal geology rendered in unprecedented detail.

#### Technology

Acquisition of mapping data is being carried out with multibeam, sidescan and sub-bottom sonar, video tow sleds, and LIDAR to create highly detailed surface models and imagery of California's seafloor landscapes. [More...](#)

#### Survey Data

The raw data are being analyzed and interpreted to create substrate and habitat maps which are then ground-truthed with video imagery for habitat verification. [More...](#)

#### Map Products

Folio map sheets based on the geomorphic imagery & interpretive products at 1:24,000 scale, as well as a complete set of GIS-ready digital products, are being created from CSMP data for the entire coast of California. [More...](#)

California Ocean Protection Council | NOAA | State Coastal Conservancy | USGS

# Additional Resources

# California Coastal Records Project

Archive of Oblique View Aerial Photographs Along the Entire California Coast

The screenshot shows the homepage of the California Coastal Records Project. The main heading reads "Welcome to the California Coastal Records Project, an aerial photographic survey of the California Coastline." Below this, a paragraph states: "Over 84,400 photographs (totaling over 488GB) of the California coast are now online, covering from the Oregon Border (42N latitude) to the Mexican Border (32.5N latitude), except for the Vandenberg AFB restricted area. An additional 5833 images from 1972, 8000 images from 1979, 2890 images from 1986, 4173 images from 1987, 1074 images from 1989, and 2407 images from 1993 are now online." A "Special thanks" section mentions Layer42.NET and Login, Inc. for providing colocation facilities and data centers. A search bar is present with a "Quick Search" button and a dropdown menu currently showing "Point Reyes Lighthouse". Below the search bar is a map of Newport Beach, CA, with a red location pin. To the right of the map is a large aerial photograph of a beach and coastal town. Below the photo, text indicates a random image was taken as "Image 201310970" at coordinates N33 37.26 W117 57.08 on Sun Sep 29 13:07:55 2013, with a copyright notice for 2013 Kenneth & Gabrielle Adelman. The footer contains copyright information for the website and maps, and a license of CC-BY-SA 2.0. A sidebar on the left contains various navigation links such as "Home", "Look up a location", "Google Earth interface", "About the project", "About the 1970s imagery", "About the 1980s imagery", "About the 1986/1993 imagery", "About the Santa Cruz historical imagery", "About the website", "Project diary", "Concerned about the project?", "About the Streisand Litigation", "Contact us", "Donate to help the coast", "Linking from your site", "News archives", "Links to other resources", "Project Sponsors", "Project Users", and "Our license". A visitor counter shows "09542016".

# Additional Resources

# Thank you!

Alyssa Moore  
Bowhead Professional Solutions  
US Army Corps of Engineers  
Alyssa.Moore@usace.army.mil

