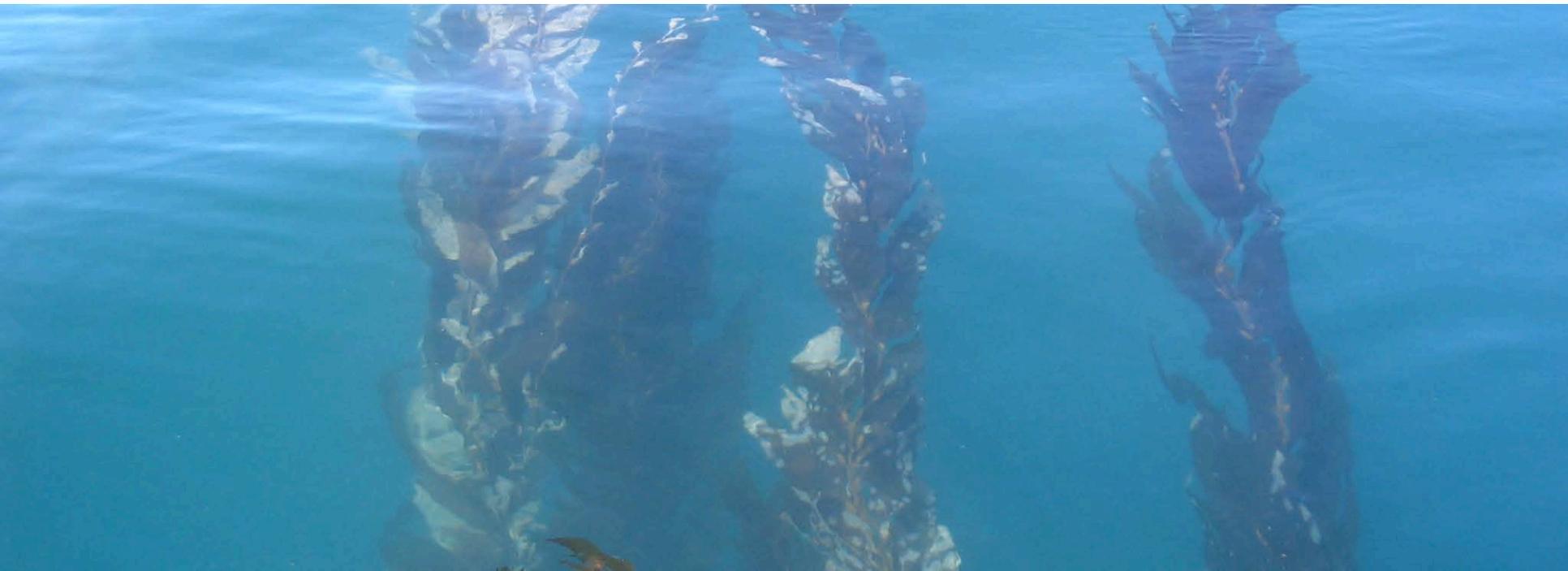


Water Quality Monitoring Council: Ocean & Coastal Workgroup

Liz Whiteman, MPA Monitoring Enterprise, California Ocean Science Trust

12 December, 2013

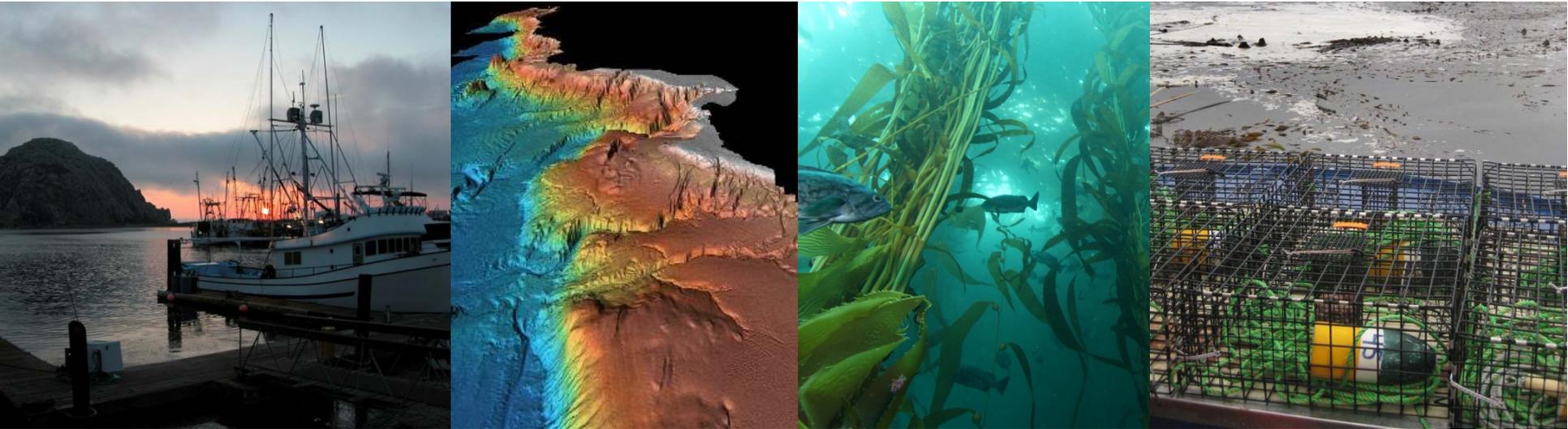


Laying a path forward



An *engaged workgroup* and achievable, cost-effective content and *technical development strategy* for an ocean-themed component of the My Water Quality website.

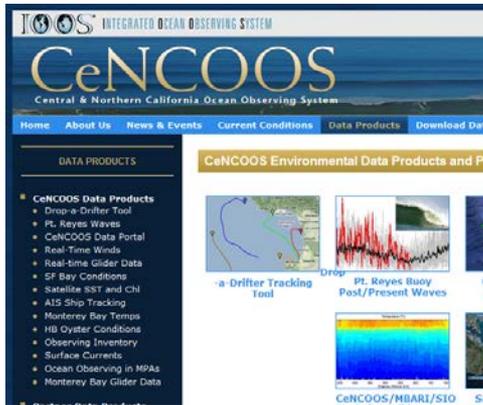
...acknowledging size and scope



- Many ecosystems/habitats
- Many management frameworks
- Significant scientific capacity
- Many issues of public interest

...leveraging existing resources

...in monitoring programs and technology assets



IOOS INTEGRATED OCEAN OBSERVING SYSTEM
CeNCOOS
Central & Northern California Ocean Observing System

Home About Us News & Events Current Conditions Data Products Download Data

DATA PRODUCTS

- CeNCOOS Data Products
 - Drifter Drifter Tool
 - Pt. Reyes Waves
 - CeNCOOS Data Portal
 - Real-Time Winds
 - Real-Time Glider Data
 - SF Bay Conditions
 - Satellite SST and Chl
 - AIS Ship Tracking
 - Monterey Bay Temps
 - HB Oyster Conditions
 - Observing Inventory
 - Surface Currents
 - Ocean Observing in MPAs
 - Monterey Bay Glider Data

CeNCOOS Environmental Data Products and Products

- Drifter Tracking Tool
- Pt. Reyes Buoy Past/Present Waves
- CeNCOOS/HBARI/SIO



PISCO
Partnership for Interdisciplinary Studies of Coastal Oceans

ABOUT PISCO TOPICS RESEARCH EDUCATION POLICY PUBLICATIONS DATA

PISCO studies marine communities along the west coast of North America from Mexico to Alaska.

See Recent Findings at Highlights

New NSF Award To Study Effects of Ocean Acidification

ECOSYSTEM SCIENCE



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REEF CHECK CALIFORNIA NED
NEARSHORE ECOSYSTEM DATABASE

Welcome to Reef Check California's Nearshore Ecosystem Database (NED)

Stretching over 1,100 miles, California's coastline is the gateway to a unique and often under-appreciated marine ecosystem. Offshore, just below the surface, kelp forests and rocky reefs are home to a vast array of marine life that supports a wide variety of consumptive and non-consumptive human uses. Similar to other reefs around the world, population growth, coastal development, pollution, and overfishing have placed increasing demands and



oceansPACES WELCOME

Commercial Fishing Revenues by Port

join oceanspaces! monitoring in action

OceanSpaces is an online community that fosters new knowledge of ocean health. Here you'll find opportunities to

E-Book shares results from Central Coast MPA baseline monitoring: Dive deeper into



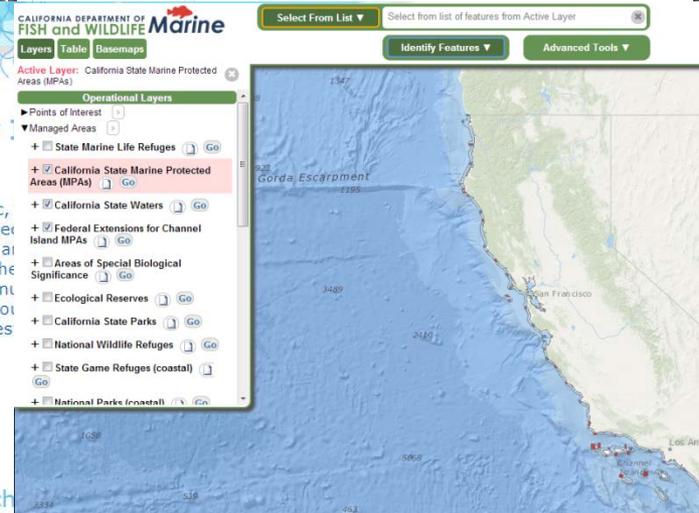
MARINE

Home
What is MARINE?
People
Research
Findings
Collaborations
Education
Affiliates

Our coastlines are home to dynamic, biological communities that are subject to changes due to natural phenomena and human activity. **MARINE** is committed to the study of these rocky intertidal communities along the coast. We invite you to learn about them and together we can understand how best to manage these valuable resources.

MARINE Partners
[See Pacific Rocky Intertidal Site](#)

Current News and Research



CALIFORNIA DEPARTMENT OF FISH and WILDLIFE Marine

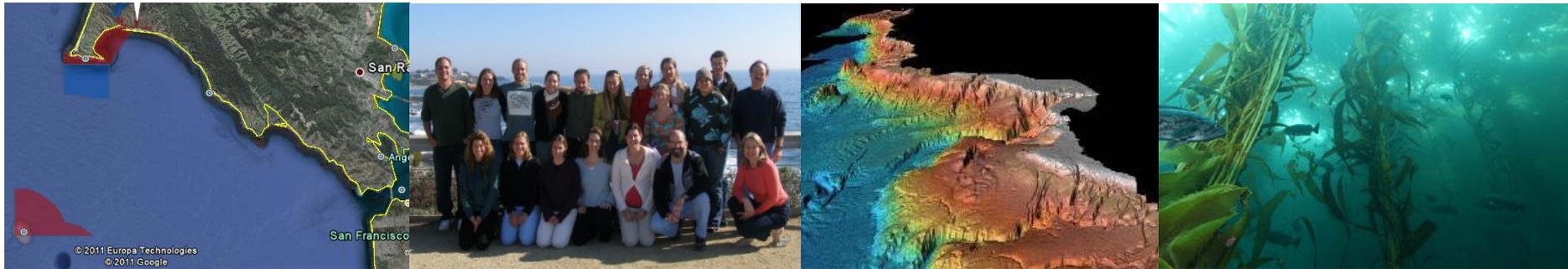
Layers Table Basemaps

Active Layer: California State Marine Protected Areas (MPAs)

Operational Layers

- Points of Interest
- Managed Areas
 - State Marine Life Refuges
 - California State Marine Protected Areas (MPAs)
 - California State Waters
 - Federal Extensions for Channel Island MPAs
- Areas of Special Biological Significance
- Ecological Reserves
- California State Parks
- National Wildlife Refuges
- State Game Refuges (coastal)
- National Parks (coastal)

Charting a course...a roadmap



- Focal areas or questions
 - Bridge the water quality and marine resource monitoring communities
 - Provide useful information for a broad audience
- Cost-effective development options
 - Leverage existing investments in web-based platforms and data sharing tools.

Convening a scoping group

- Sara Aminzadeh, CA Coastkeeper
- Jon Marshack, WQMC
- Kris Jones, WQMC
- Ken Schiff, SCCWRP
- Tony Hale, SFEI
- John Hunt, UC Davis
- Liz Whiteman, OST
- Aaron McGregor, OST
- Brock Bernstein, Consultant



Emerging opportunities



- Statewide programs: MPA and ASBS monitoring
- New collaborations: Bight' 13 program
- Specific habitats: rocky shores, kelp forests

Water Quality Monitoring Council: Ocean & Coastal Workgroup & Portal

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