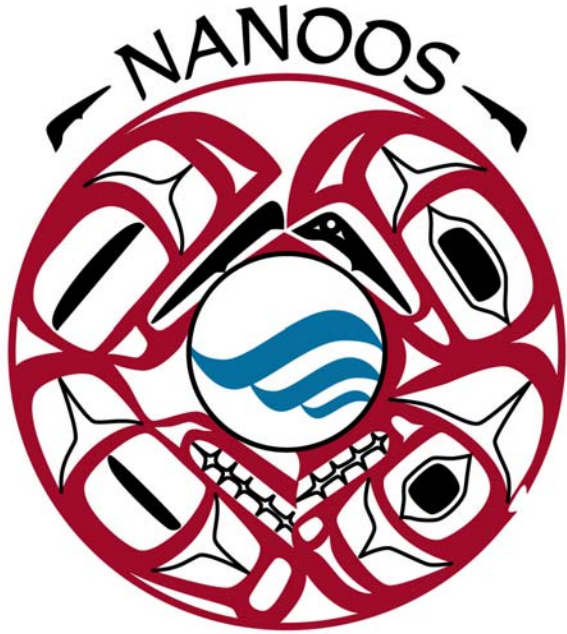


Northwest Association Of Networked Ocean Observing Systems



<http://www.nanoos.org>

part of the US Integrated
Ocean Observing System
(IOOS)
as organized by
Ocean.US



What will US IOOS do?

A “user-driven”, integrated system of observations and data telemetry, data management and communications (DMAC), and data analysis and modeling that **routinely, reliably, and continuously provides data and information required to address seven societal goals:**

- (1) Improve predictions of **climate change and weather** and their effects on coastal communities and the nation;
- (2) Improve the safety and efficiency of **maritime operations**;
- (3) Improve forecasts of **natural hazards** and mitigate their effects more effectively;
- (4) Improve **homeland security**;
- (5) Minimize **public health risks**;
- (6) Protect and restore **healthy coastal ecosystems** more effectively; and
- (7) Sustain living marine **resources**.

Coastal Component of IOOS

AOOS

NANOOS

CeNCOOS

PacIOOS

SCCOOS

National Backbone

- Federal Agencies Responsible
- EEZ & Great Lakes
- Core variables required by RAs & Fed Agencies
- Network of sentinel & reference stations
- Data Standards/Exchange Protocols

NERA

GLOS

MACOORA

SECOORA

GCOOS

CaRA

Regional Coastal Ocean Observing Systems

- Regional Associations Responsible
- Involve private & public sectors
- Inform Federal Agencies of user needs
- Enhance the backbone based on user needs
- Incorporate sub-regional systems

Pacific Coast Ocean Observing System (PaCOOS)

Mission

Provide ocean information needed for management of:

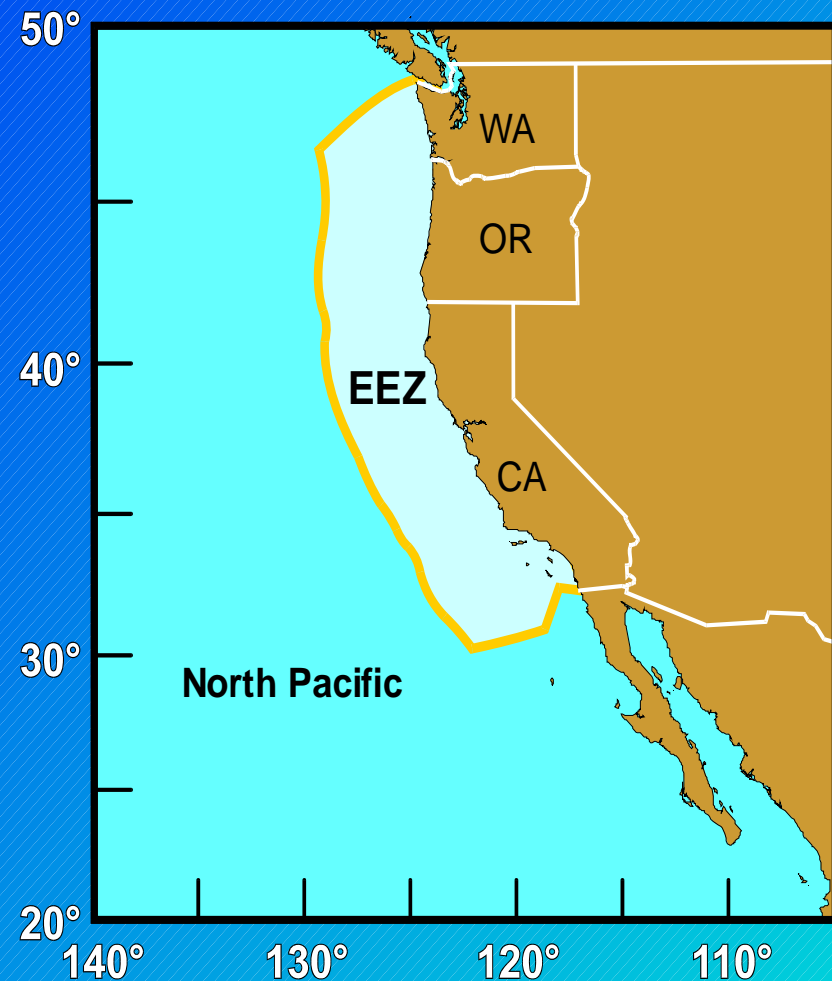
- 🐟 Fishery resources
- 🐟 Protected Marine Mammals
- 🐟 Turtles

and forecast the ecosystem consequences of:

- 🐟 Fishery removals
- 🐟 Environmental variability
- 🐟 Climate change

in the US exclusive economic zone (EEZ)

US Exclusive Economic Zone (EEZ)



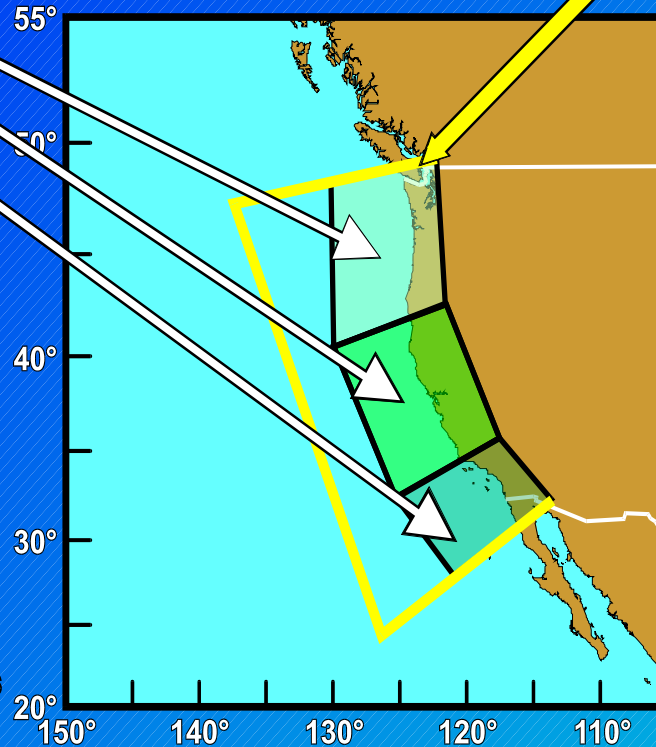
Pacific Coast Ocean Observing System (PaCOOS)

Coastal - Integrated Ocean Observing System (IOOS) in the California Current System of the US

Regional Coastal Ocean Observing System

National Backbone PaCOOS Contributions

- NaNOOS
- CenCOOS
- SCCOOS
- Enhance National backbone
- Increased time-space resolution
- Terrestrial-influence
- R & D projects
- Coastal radar network
- Involves private sector
- Serves local user needs



- US EEZ Coast-wide:
 - Ecosystem observations
 - Species inventories
 - Process variables
 - Catch & bycatch
- Maintain Sentinel Species Lines of observation
- Serves ecosystem-based resource management
- Provides offshore boundary conditions for regional systems

Opportunities for interaction between PICES and US West Coast IOOS Regional Associations (NANOOS) and National Backbone contribution (PaCOOS)

- **PICES can help with North Pacific ecosystem and climate-related ecosystem change research (they've been doing this for 14 years!)**
 - **PICES annual meetings, publications and workshops**
- **PICES can help with North Pacific context for US IOOS**
 - **connection to equator (El Nino/La Nina) and open Pacific (PDO)**
 - **coordination with Canada and Mexico**
- **PICES TCODE and MONITOR are encouraged to stay in close contact with US IOOS activities**
 - **DMAC (Data Management and Communications)**
- **PICES could co-sponsor effort (meeting, workshop, scientific session?) on circulation, ecosystem and fisheries modeling of the California Current System**
 - **PICES XV “Boundary Currents” meeting**
 - **PICES XVI in Victoria, Canada**