

Ocean Observing Systems

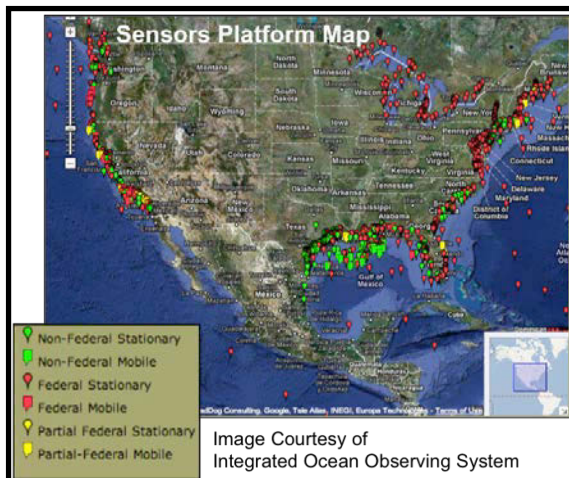


- **Ocean Observing Systems (OOS):**

- Use a network of sensors and platforms to study and monitor physical, chemical, and biological oceanographic properties.
- Exist at local, regional, national, and global scales.

- **Ocean Observing Systems serve:**

- Fishing industry
- National security
- Coastal residents and recreational activity participants
- Emergency search and rescue operations
- Oil and gas industry
- Renewable energy industry
- Shipping and commerce industries
- Scientists and other groups working on pollution issues, such as harmful algal blooms.
- Academic and government scientists working on future models predicting impacts of climate change.
- Oil spill tracking and prevention



- **OOS provides measurements of:**

- Meteorological data, such as air temperature and wind
- Surface and subsurface ocean properties, such as salinity, temperature, and waves
- Satellite maps of sea surface temperature and chlorophyll
- Surface ocean current maps
- Ocean acidity measurements

- **The OOS network encompasses:**
 - 1 NATIONAL Integrated Ocean Observing System (IOOS)



- 11 REGIONAL Systems, including:



- MANY LOCAL Systems provided by partnerships with government agencies, private institutions, and academic institutions. UC Davis Bodega Marine Lab operates a local node (BOON) for the CeNCOOS system:



- **Next Step for OOS:**

- Develop more user friendly data access and graphs for the general public
- Streamline data input and output into OOS networks
- Long term funding plan

- **Online Resources**

- National Integrated OOS (IOOS)
 - <http://www.ioos.gov/>
- Region Central and Northern California OOS (CeNCOOS)
 - <http://www.cencoos.org/>
- Local Bodega Ocean Observing Node (BOON)
 - <http://www-bml.ucdavis.edu/boon/>

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