

# CORE

## **The Consortium for Oceanographic Research and Education**

# **Partnership, Leadership & Progress**

**Richard D. West**  
**Rear Admiral, USN (Ret.)**  
**President- CORE**

**October 21, 2003**

## Mission

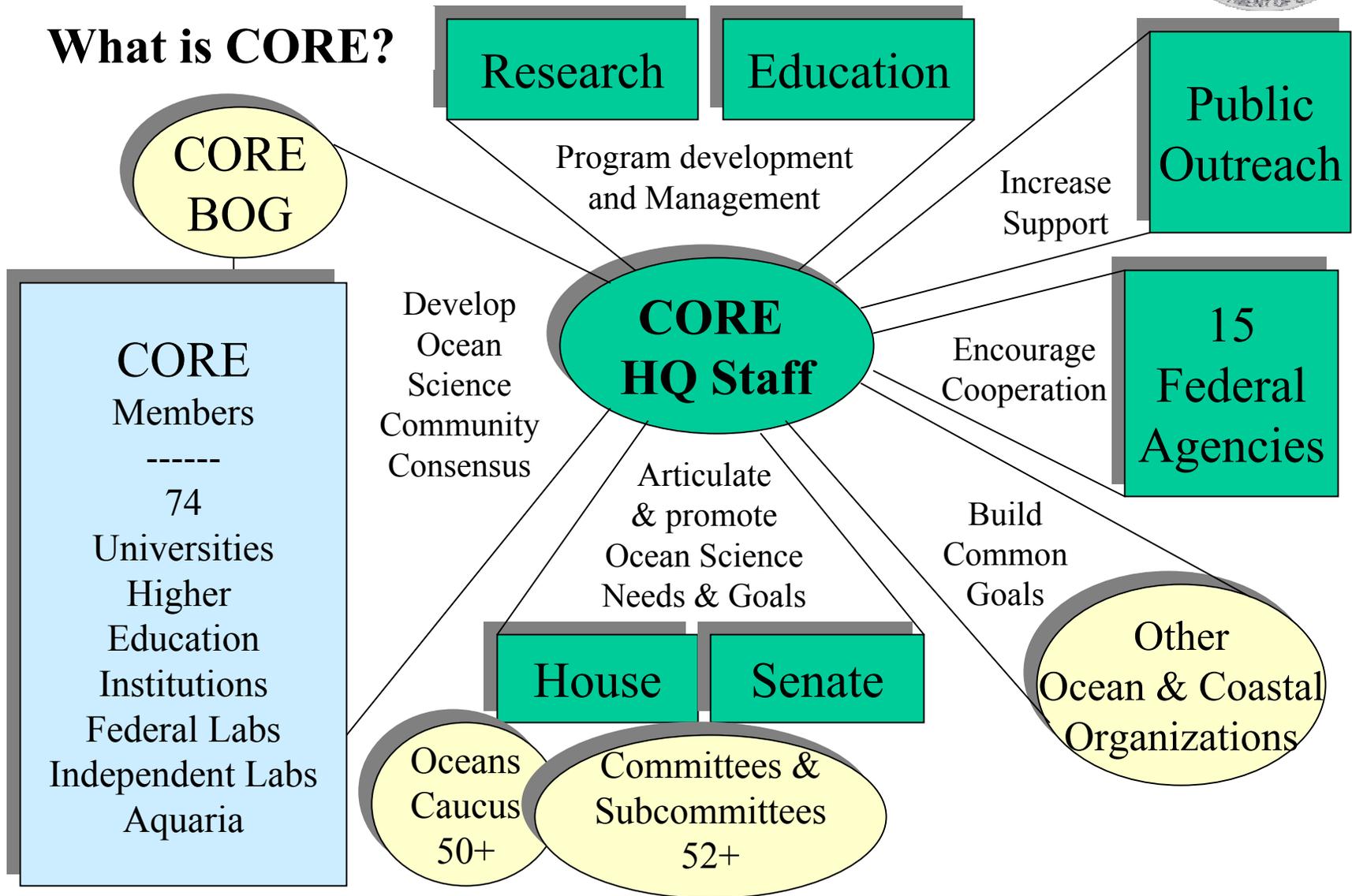
- **Advance knowledge of our oceans and marine sciences.**
- **Promote cooperative efforts among CORE members and governmental agencies.**
- **To facilitate formulation of goals, policies and objectives and provide advice and management for programs and facilities in oceanography and related fields.**



# Goals

- **Strong links between academia, federal labs, and industry.**
- **CORE serves as a community-wide focus**
- **Enhance public appreciation**
- **Marine science is integral to U.S. policy goals in:**
  - National security**
  - Economic development**
  - Quality of life**
  - Education**

## What is CORE?





**CENSUS OF MARINE LIFE**

<http://www.coml.org>



**National Oceanographic Partnership Program**

*Promoting Partnerships for the Future of Oceanography*

<http://www.nopp.org>



**National Ocean Sciences Bowl**

<http://www.nosb.org>



**Dynamics of Earth and Ocean Systems**

<http://www.coreocean.org/deos>

Centers for  
Ocean  
Science  
Education  
Excellence

**Our newest program**



# Board of Governors



**University of Alaska Fairbanks**

**UC San Diego**

**Columbia University**

**University of Delaware**

**Florida Atlantic University**

**Harbor Branch Oceanographic Institution**

**University of Hawaii**

**Louisiana State University**

**University System of Maryland**

**University of Massachusetts Dartmouth**

**MIT**

**University of Miami**

**Mississippi State University**

**Monterey Bay Aquarium Research Institute**

**North Carolina State University**

**UNC at Wilmington**

**Old Dominion University**

**Oregon State University**

**Pennsylvania State University**

**University of Rhode Island**

**Rutgers**

**Skidaway Institute of Oceanography**

**University of Southern California**

**University of South Florida**

**The University of Southern Mississippi**

**SUNY at Stony Brook**

**The University of Texas at Austin**

**Texas A&M University**

**University of Washington**

**College of William and Mary**

**Woods Hole Oceanographic Institution**

## Consortia Members

**University of South Carolina**

**NOAA's Center for Coastal Environmental  
Health and Biomolecular Research**

**College of Charleston**

**Medical University of South Carolina**

**South Carolina Dept. of Natural Resources**

**South Carolina Sea Grant Consortium**

**UC Santa Cruz**

**CSU, Monterey Bay**

**Moss Landing Marine Laboratories**

**Naval Postgraduate School**

**UC Santa Barbara**

**UNC at Chapel Hill**

**Duke University**



# Associate Members



**Battelle**

**Fleet Numerical Meteorology and  
Oceanographic Center**

**Gulf of Maine Ocean Observing System**

**Marine Technology Society**

**Mitretek**

**Mystic Aquarium & Institute for Exploration**

**National Aquarium in Baltimore**

**National Sea Grant College Program**

**New England Aquarium**

**NOAA Fisheries Science Centers**

**NOAA National Centers for Coastal Ocean Science**

**NOAA OAR Environmental Research Laboratories**

**North Pacific Research Board**

**The Research Centers of the U.S.G.S.**

**Southeastern Universities Research Assoc.**

**U.S. Arctic Research Commission**

**Bermuda Biological Station for Research**

**Bigelow Laboratory for Ocean Sciences**

**University of California, Irvine**

**University of Connecticut**

**East Carolina University**

**Florida State University**

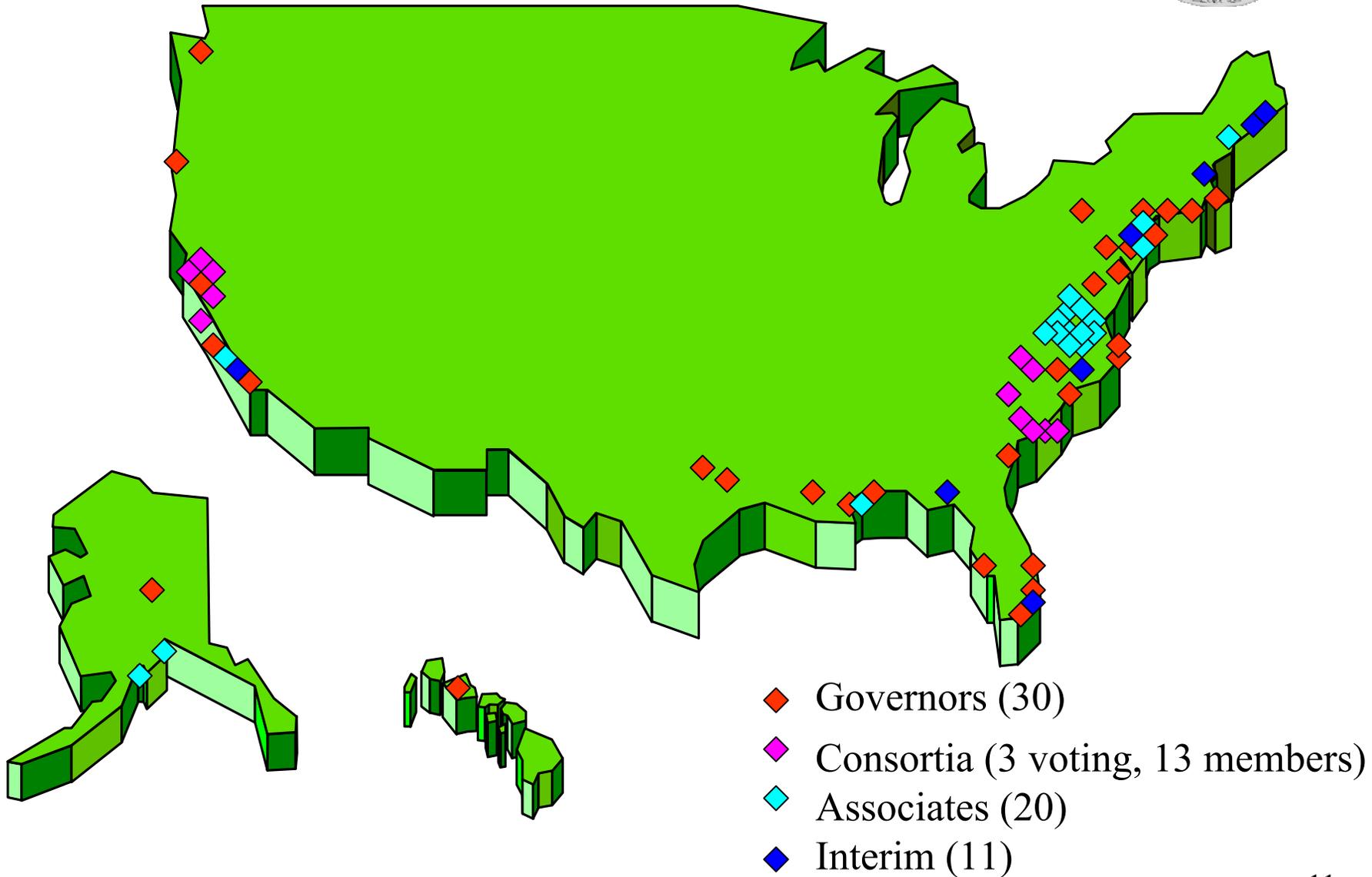
**JHU Applied Physics Laboratory**

**Louisiana Universities Marine Consortium**

**University of Maine**

**University of New Hampshire**

**Nova Southeastern University**



# Partnerships

**Partnerships with the academic community is essential to fulfilling NOAA's mission**

# **National Oceanographic Partnership Program**

**National Oceanic and Atmospheric  
Administration**

**Department of the Navy**

**National Science Foundation**

**National Aeronautics and Space Administration**

**Department of Energy**

**Environmental Protection Agency**

**United States Coast Guard**

**United State Geological Survey**

**Defense Advanced Research Projects Agency**

**Minerals Management Service**

**Office of Science and Technology Policy**

**Office of Management and Budget**

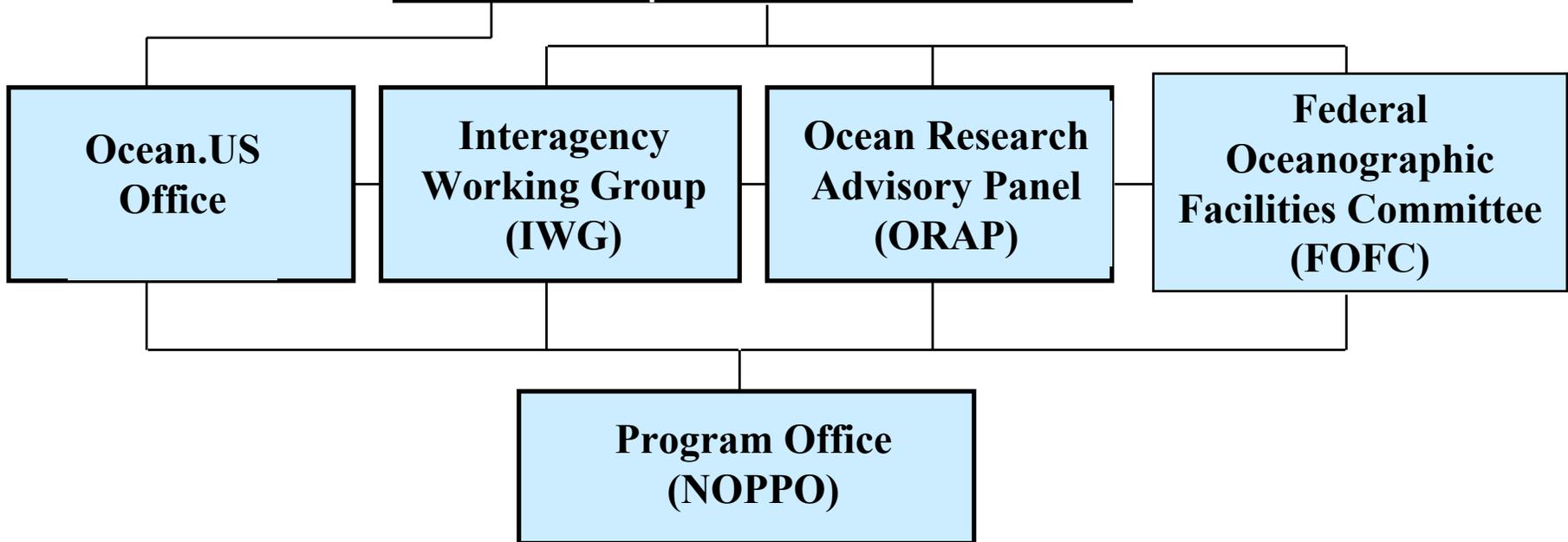
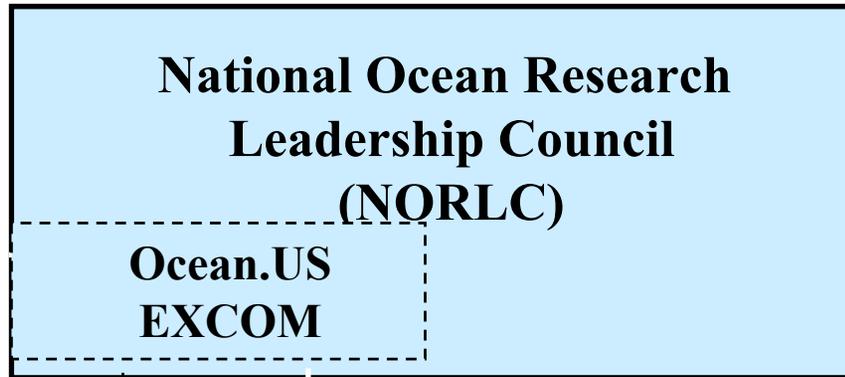
**Department of State**

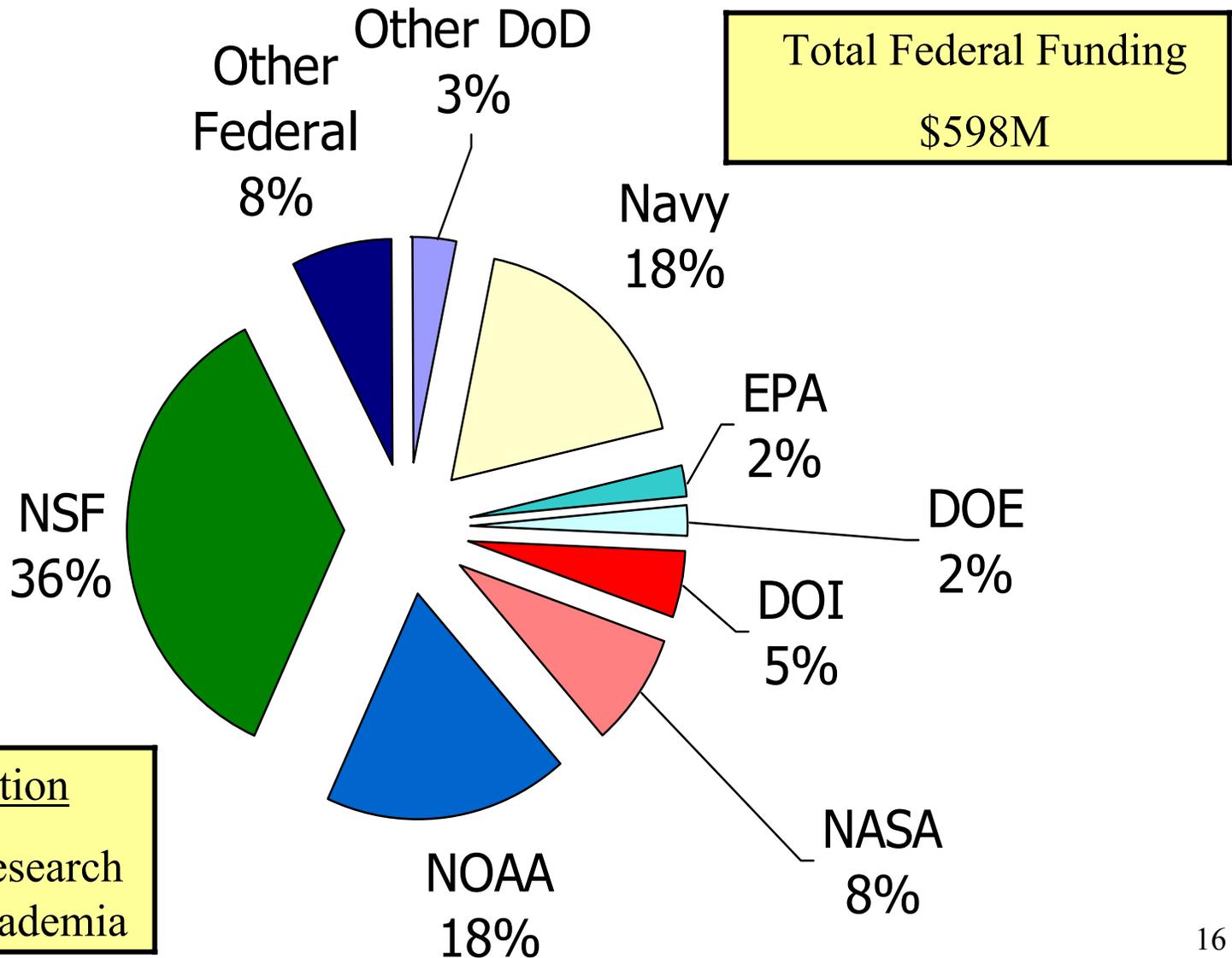
**United States Army Corps of Engineers**

**Department of Homeland Security**

**National Institute of Environmental Health Sciences**

## NOPP Organizational Structure





# Ocean Science Congressional Jurisdiction

## House of Representatives

(10 Committees, 22 Subcommittees)

### Appropriations

- **Commerce, Justice, State and Judiciary (NOAA)**
- Defense (ONR, ARPA)
- Energy and Water Development (DOE)
- Homeland Security
- Interior (USGS, MMS)
- Labor, HHS and Education (NIEHS)
- VA, HUD and Ind. Agencies (NSF, NASA, EPA)

### Armed Services

- Terrorism, Unconventional Threats and Capabilities (ONR, ARPA)

### Budget (all agencies)

### Energy and Commerce

- Energy and Air Quality (DOE)
- **Environment and Hazardous Materials (EPA, NOAA)**
- **Oversight and Investigations (EPA, DOE, NOAA)**

### Government Reform and Oversight

- Energy Policy, Nat'l Resources and Reg. Affairs
- National Security, Emerging Threats and Int'l Rel.

### Homeland Security (Select)

- Cybersecurity, Science and Research & Development

### Resources

- Energy and Mineral Resources (USGS, MMS)
- **Fisheries Conservation, Wildlife and Oceans (NOAA)**

### Science

- Energy (DOE)
- **Environment, Technology & Standards (NOAA, EPA, DOE)**
- Research (NSF)
- Space and Aeronautics (NASA)

### Intelligence (Permanent Select) (DOD)

### Transportation and Infrastructure

- Coast Guard and Maritime Transportation
- **Water Resources and Environment (EPA)**

# Ocean Science Congressional Jurisdiction

## Senate

(11 Committees, 15 Subcommittees)

### **Agriculture, Nutrition and Forestry**

- Research, Nutrition and General Legislation (USDA)

### **Appropriations**

- **Commerce, Justice, State and Judiciary (NOAA)**
- Defense (ONR, ARPA)
- Energy and Water (DOE)
- Homeland Security
- Interior (USGS, MMS)
- Labor, HHS and Education (NIEHS)
- VA, HUD and Ind. Agencies (NSF, NASA, EPA)

### **Armed Services**

- Emerging Threats and Capabilities (ONR, ARPA)

### **Budget (all agencies)**

### **Commerce, Science, and Transportation**

- **Oceans , Fisheries and Coast Guard (NOAA, USCG)**
- **Science, Technology and Space (NSF, NASA, NOAA)**

### **Energy and Natural Resources**

- Energy Research and Development (DOE)

### **Environment and Public Works**

- Clean Air, Wetlands, Priv. Prop., Nuc. Safety (EPA)
- **Fisheries, Wildlife, and Water (NOAA)**

### **Foreign Relations (UNCLOS & Int'l Whaling)**

### **Governmental Affairs**

- Permanent Investigations (all agencies)

### **Health, Education, Labor and Pensions**

### **Select Intelligence (DOD)**

# History of U.S. Ocean Policy

## 1959-1969: Research Decade

**Navy ONR Report on Oceanographic Capabilities (1959)**

**NAS Committee on Oceanography Report (1959)**

**Federal Council for Science and Technology (FCST) established (1959)**

**Interagency Committee on Oceanography (IOC) established (1960)**

**President Kennedy's Special Message to Congress (1961)**

**Marine Resources and Development Act (1966)**

**National Sea Grant Program (1966)**

**Stratton Commission Report, *Our Nation and the Sea* (1969)**

# History of U.S. Ocean Policy (cont.)

## 1970-1980: Stewardship Decade

**National Environmental Policy Act (1970)**

**Reorganization Plans establish NOAA & EPA (1970)**

**Coastal Zone Management Act (1972)**

**Federal Water Pollution Control Act - Clean Water Act (1972)**

**U.S. extends territorial sea to 12-nm by Presidential Proclamation  
(1983)**

**Ocean Dumping Ban Act (1989)**

**Coastal Zone Act Reauthorization Amendments (1990)**

**Oil Pollution Act (OPA) (1990)**

**Marine Protection, Research and Sanctuaries Act (1972)**

**Marine Mammal Protection Act (1972)**

# **History of U.S. Ocean Policy (cont.)**

**Endangered Species Act (1973)**

**Fishery Conservation and Management Act (1976)**

**Outer Continental Shelf Lands Act Amendments (1978)**

**National Advisory Committee on Oceans and Atmosphere Report (1979)**

**Deep Seabed Hard Mineral Resources Act (1980)**

**Ocean Thermal Energy Conversion Act (1980)**

**American Fisheries Promotion Act (1980)**

# History of U.S. Ocean Policy (cont.)

## 1981-1990: Decade of Decline

Reagan Administration policy emphasis on budget & smaller government

U.S. refusal to sign UN Convention on the Law of the Sea

Coastal Barriers Resources Act (1982)

U.S. establishes 200-nm EEZ by Presidential Proclamation (1983)

# History of U.S. Ocean Policy (cont.)

## **1991-2000: Decade of Ocean Bureaucracy**

**Clinton Administration vs. Republican-controlled Congress**

**Framework Convention on Climate Change ratified by Senate (1992)**

**Marine Mammal Protection Act Amendments (1994)**

**Sustainable Fisheries Act (1996)**

**Oceans Act - Creation of U.S. Commission on Oceans (2000)**

**National Oceanographic Partnership Program (NOPP) (1997)**

# History of U.S. Ocean Policy (cont.)

## 2001-2010: Decade of Opportunities

**G8 Plan: Science and Technology for Sustainable Development (2003)**

**Pew Ocean Commissions Report (2003)**

**U.S. Commission on Ocean Policy Report (2003)**



**Final Report Issued**

**June 2003**



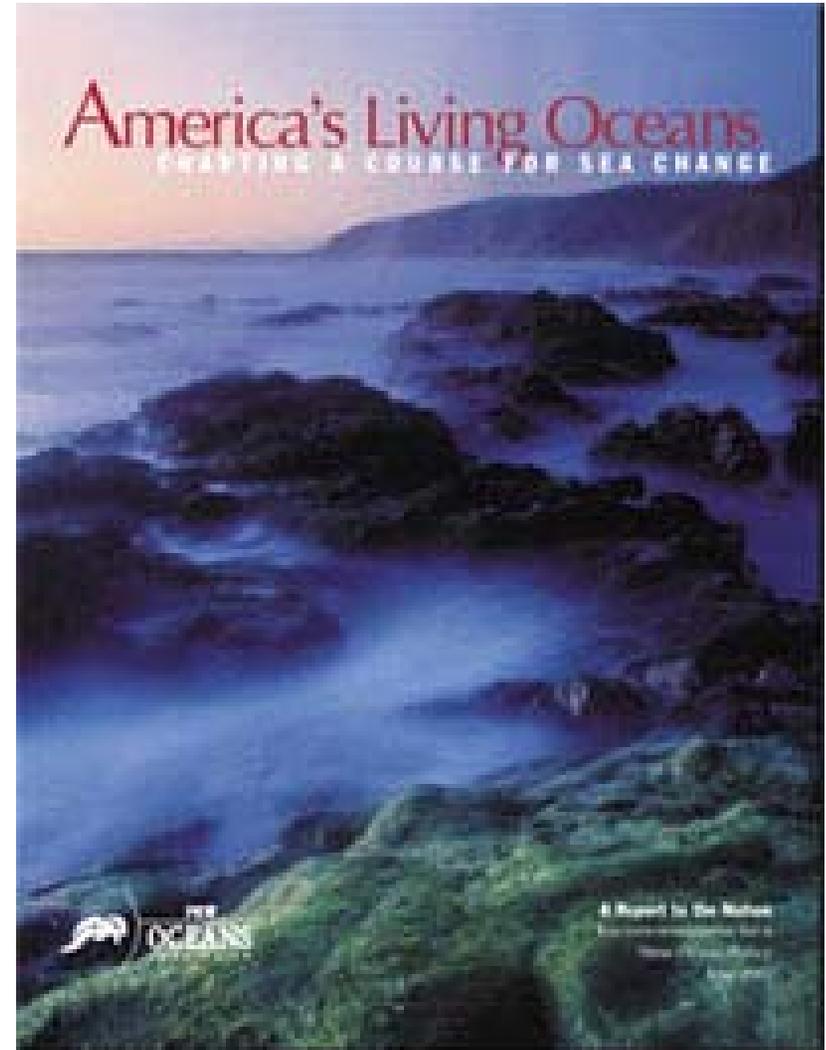
The oceans are in trouble and face major threats from pollution, overfishing and development.

**Five recommended action areas:**

- Ocean Governance
- Restoring Fisheries
- Preserving the Coasts
- Cleaning Coastal Waters
- Guiding Sustainable Aquaculture

**Other recommendations:**

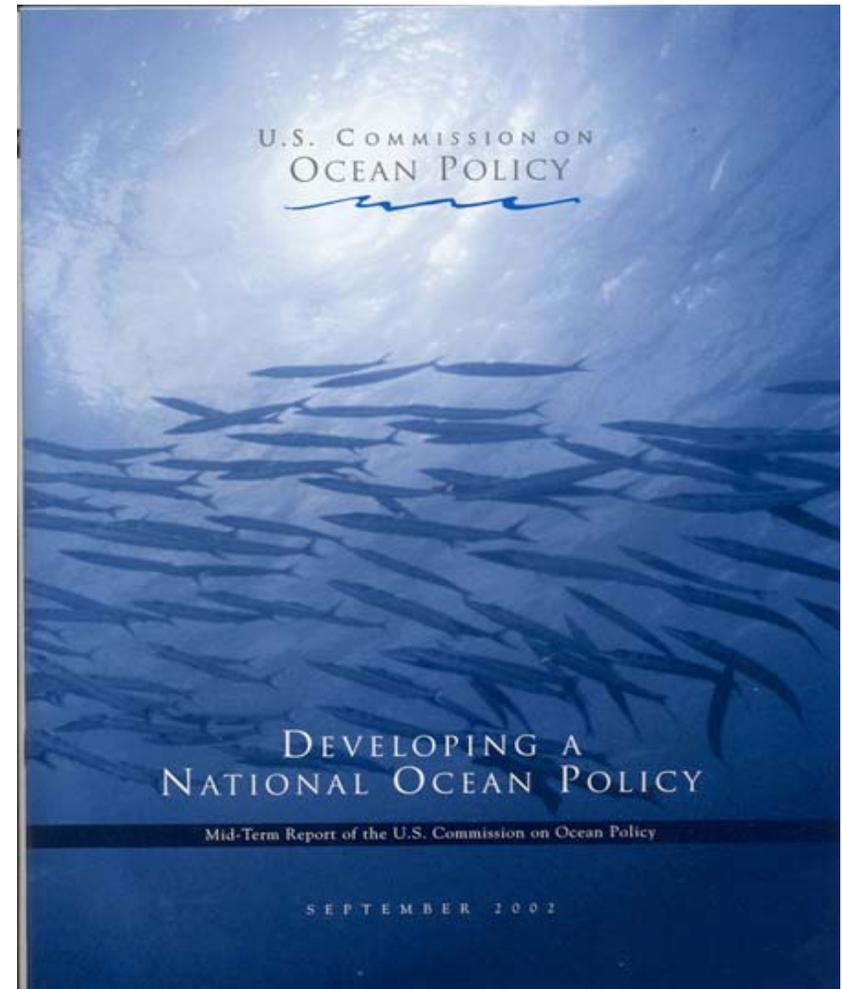
- New “ocean ethic” of stewardship needed
- Increase investment in ocean science and research



## Final Report Due Late 2003

### Will Include Reviews of:

- Existing & planned federal activities and facilities
- Cumulative effect of federal laws
- **Supply & demand for ocean resources**
- **Relationships between the public and private sectors**
- **New investment opportunities**
- **State & federal integration efforts**
- Modification to federal laws & agencies
- Effectiveness of existing federal policy coordination



## Participants Include:

- **30 Nations**
- **9 Federal Agencies**

Dept. of State, Commerce, Energy, Interior, Ag., Transp., NOAA, NASA, CEQ, OSTP

- **21 International Organizations**



- Adopted a declaration calling for development of a comprehensive, coordinated EOS.
- Began development of a conceptual framework & implementation plan for EOS.





## Leaders Think About The Future

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**If You're Not Moving Forward,  
You're Falling Behind**

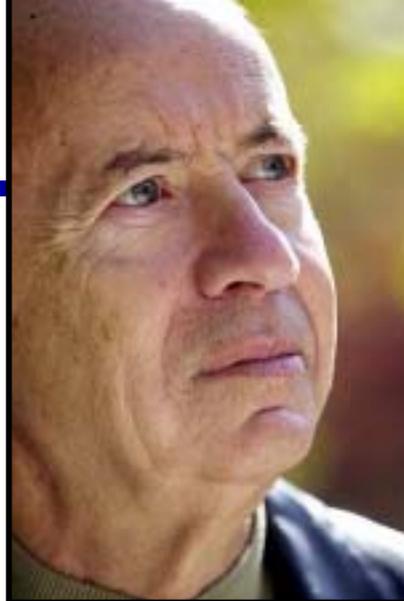
**“...the inertia of success...  
is extremely dangerous”**

**— Andy Grove, Intel Chairman**

**Life Has Changed... NOAA Must Change!**

**“Even if you are on the right track, you'll  
get run over if you just sit there”**

**—Will Rogers**



## Customer and Constituent Satisfaction

### Product Orientation

Products valuable to public

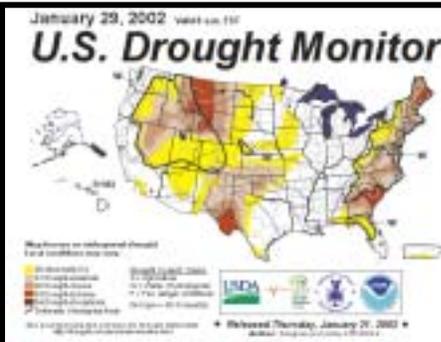
Products that our constituents need and want

### Marketing

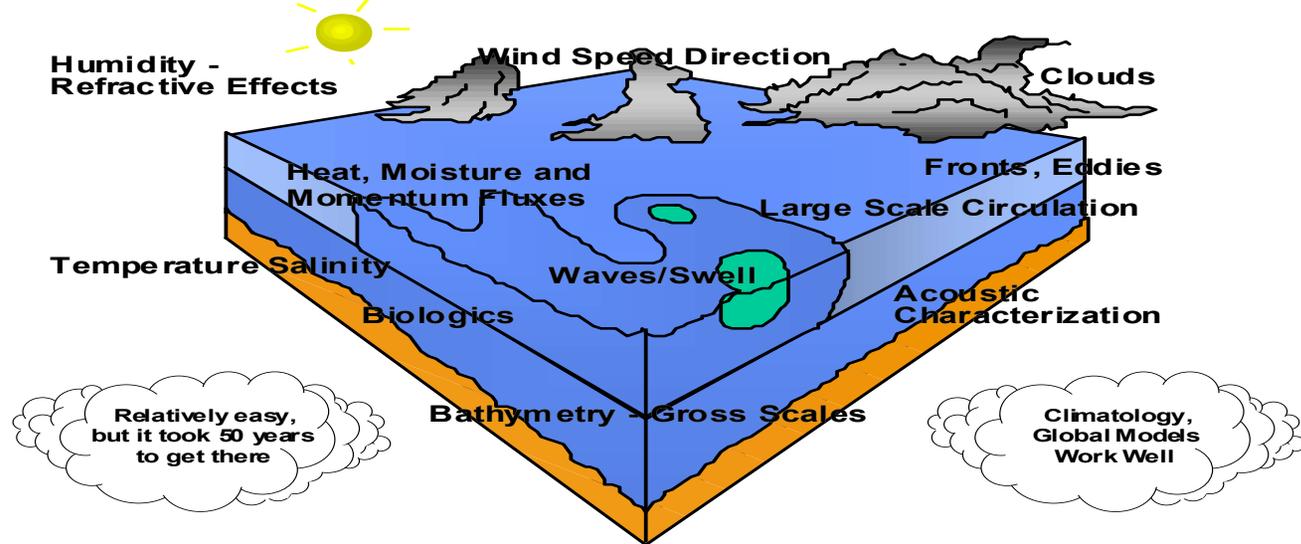
Public Education

Linking NOAA's work to constituent's everyday lives

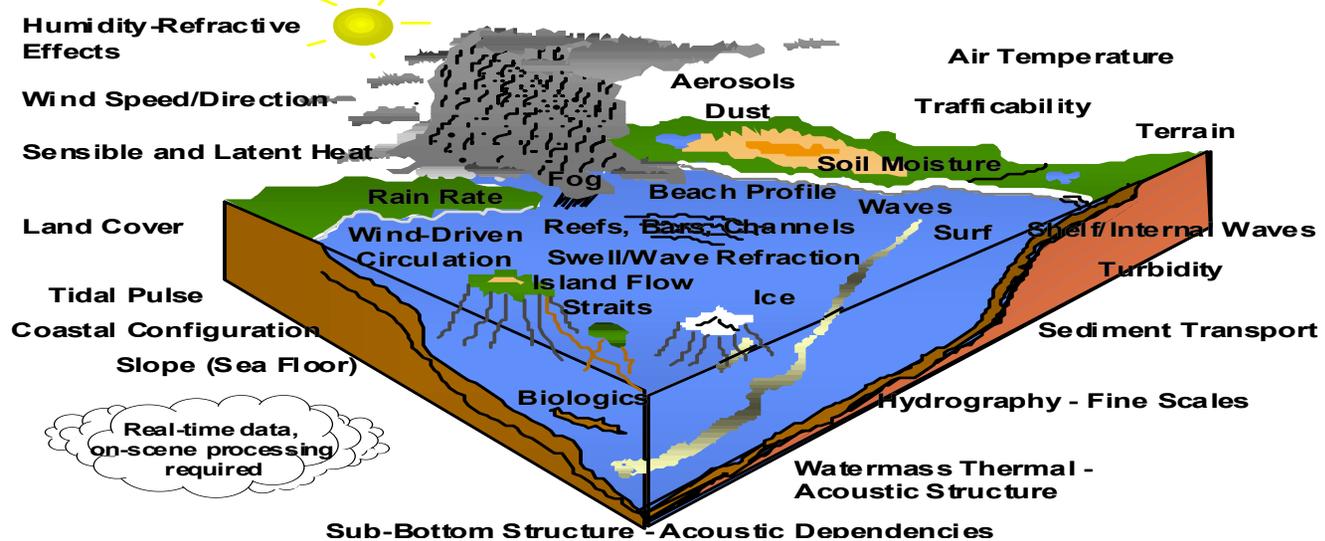
Customer satisfaction



## METOC Focus - Cold War Blue Water



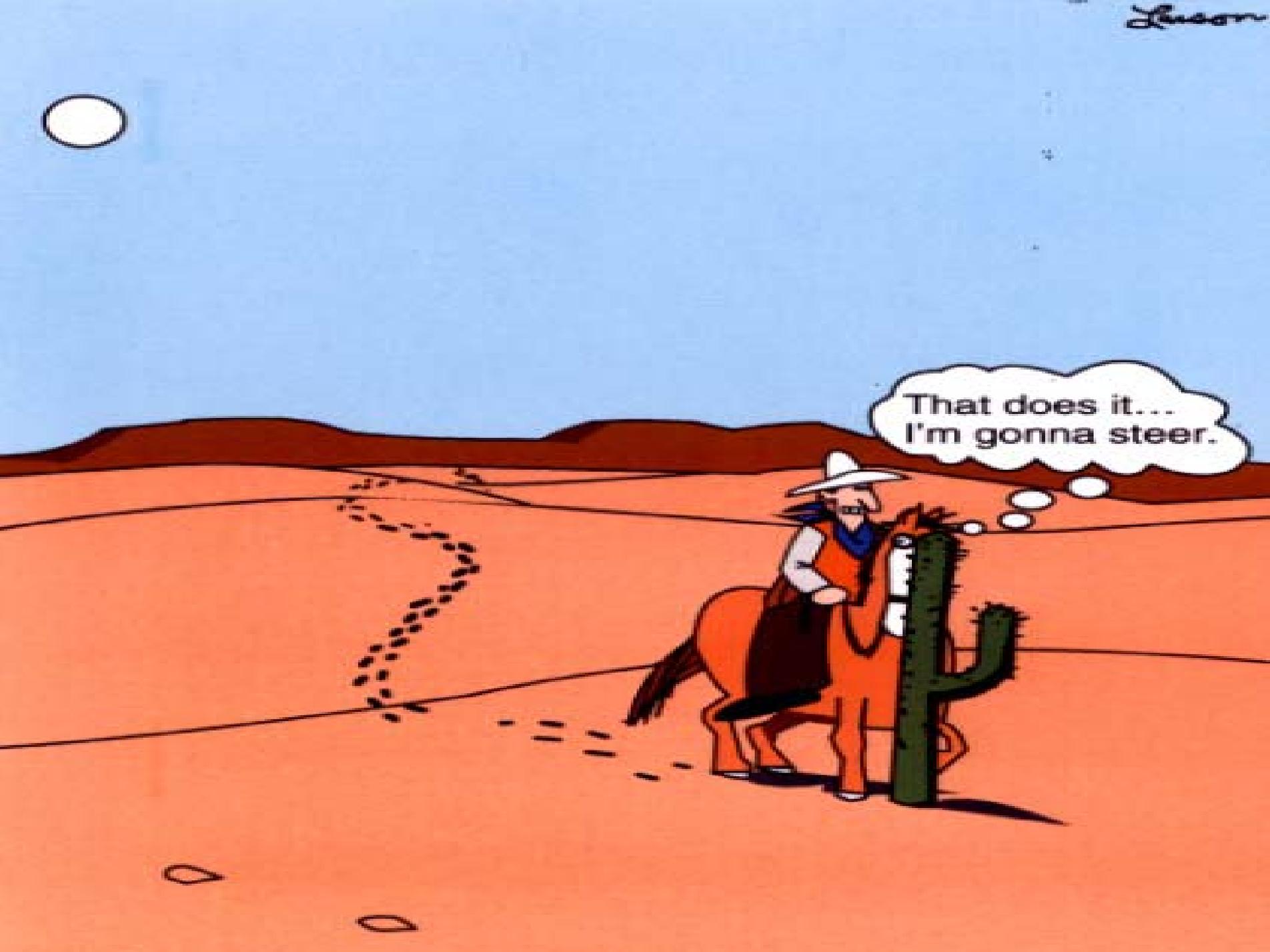
## METOC Focus - Forward ... From the Sea Littoral Water



## The Challenge

**“We’ve made the investment needed to venture into the skies, and it has paid off mightily. We’ve neglected the oceans, and it has cost us dearly. This is the time to do for the oceans in the 21<sup>st</sup> century what our predecessors did for space.”**

**Dr. Sylvia Earle**



That does it...  
I'm gonna steer.