



COL - NAML

Opportunities for Closer Collaboration?

Jon White, RADM, U.S. Navy (Ret.)

President and CEO

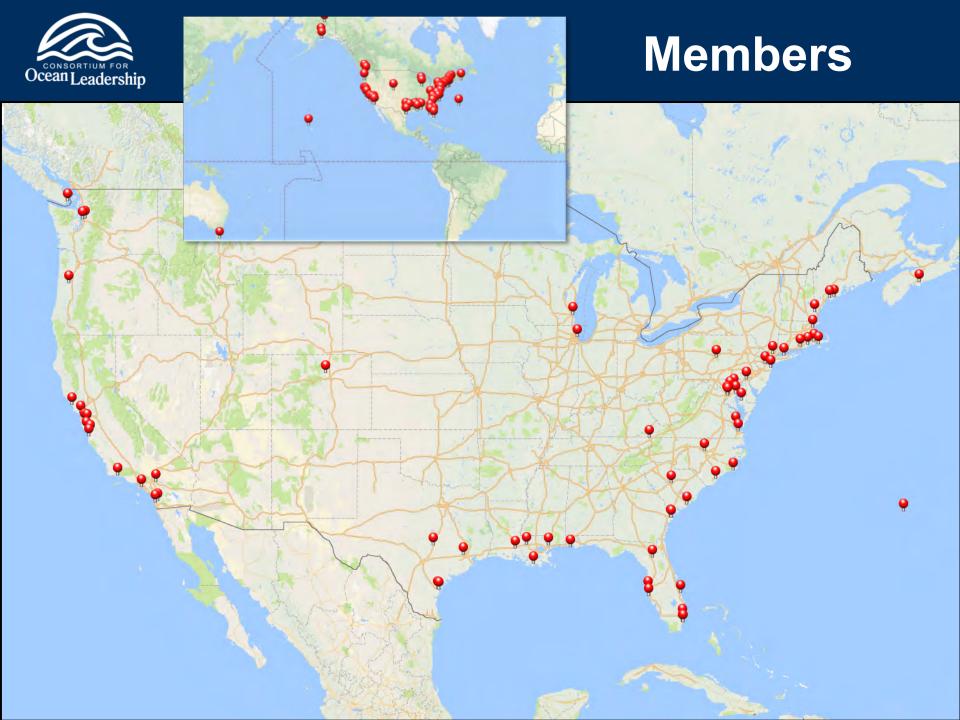
Consortium for Ocean Leadership (COL)

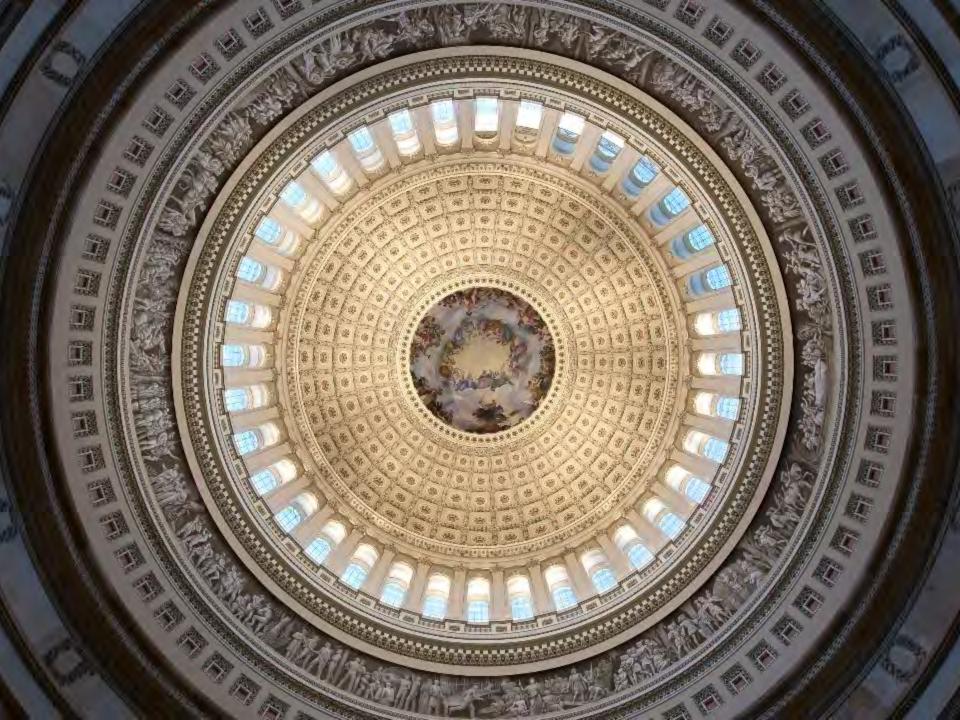


A Washington, DC-based nonprofit organization that represents more than 95 of the leading public and private ocean research and education institutions, aquaria and industry with the mission to advance research, education and sound ocean policy.

Discovery, Understanding, Action

Collaboration begins with COL







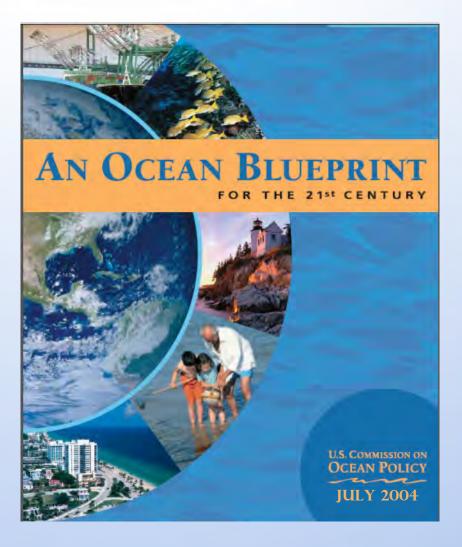
Where are we today?



- The importance of our oceans, coasts, and Great Lakes cannot be overstated; they are critical to the very existence and wellbeing of the nation and its people."
- ➤ While the oceans lap daily at our shores, they only intermittently lap at our consciousness. We still take the oceans for granted, even as they are increasingly troubled by over-development, over-fishing, climate change, and other human insults. Worse still, perhaps, we don't even know all that much about the oceans, certainly not as much as we would like to properly identify, diagnose, and remedy problems.

ADM James Watkins – The Legacy – 2004





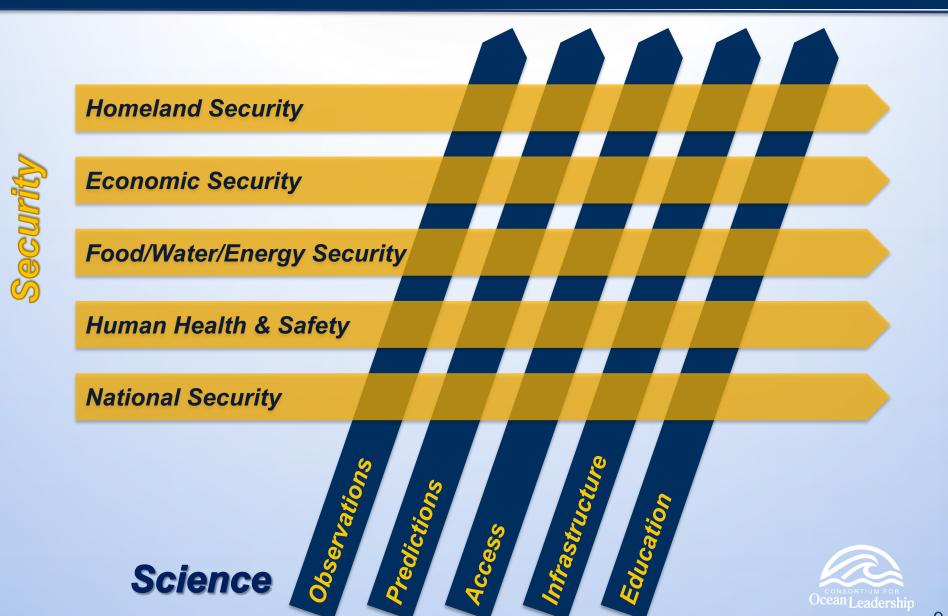


On the brink?



Challenges and Opportunities

Ocean Science + Global Security = "Ocean Security"





Ocean Security

The amalgamation of securities (e.g., national, homeland, economic, food, energy, water, health) dependent on robust ocean knowledge to ensure our safety and survival.



Science Based Decision-Making



Homeland Security



Food Security



Water Security



Energy Security



Human Health



Economic Security





DANGER

Toxins from algae in this water can harm people and kill animals



Stay out of the water until further notice. Do not touch scum in the water or on shore.



Do not let pets or other animals drink or go into the water or go near the scum.



Do not eat fish or shellfish from this water.



Do not use this water for drinking or cooking. Boiling or filtering will not make the water safe.

For people, the toxins can cause:

- · Skin rashes, eye imitation
- · Diarrhea, vorniting

For animals, the toxins can cause:

- Dernies, vorilling
- Convalvent and dealer

STAFF RESEARCH . ACCESSIBLE COAST . 100 YEAR FLOOD . WILSON BAY

Coastwatch

NORTH CAROLINA SEA GRANT SPRING 2017 ISSUE 2 53.75

Resilient Coastal Communities: North Carolina's Past, Present and Future





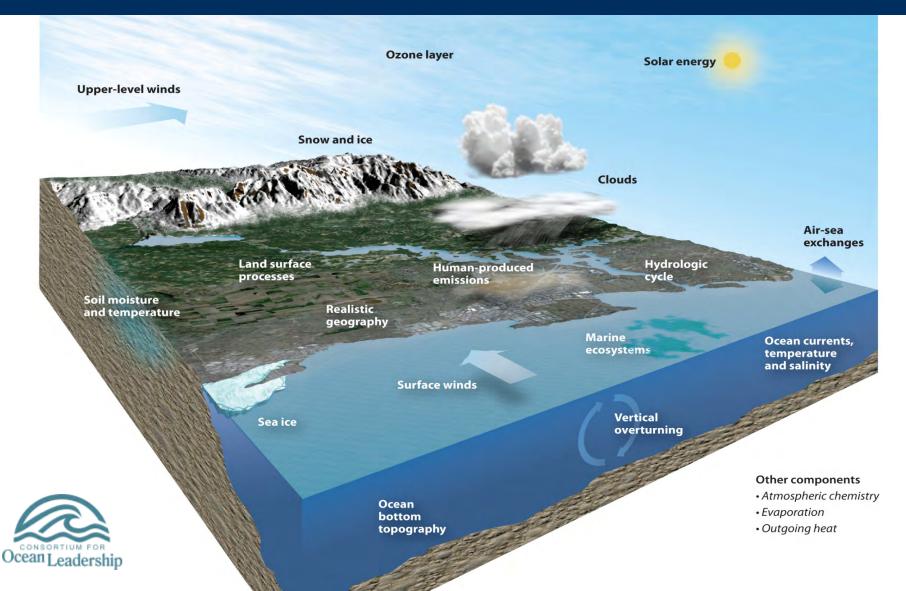


National Security



Earth System Knowledge

Ocean, Climate, Weather, Ice, Land, ...



Earth System Knowledge Ocean, Climate, Weather, Ice, ...

Today





Earth System Knowledge Ocean, Climate, Weather, Ice, ...

Tomorrow?

Do we need ships?









We need SHIPs!



LeaderSHIP

OwnerSHIP

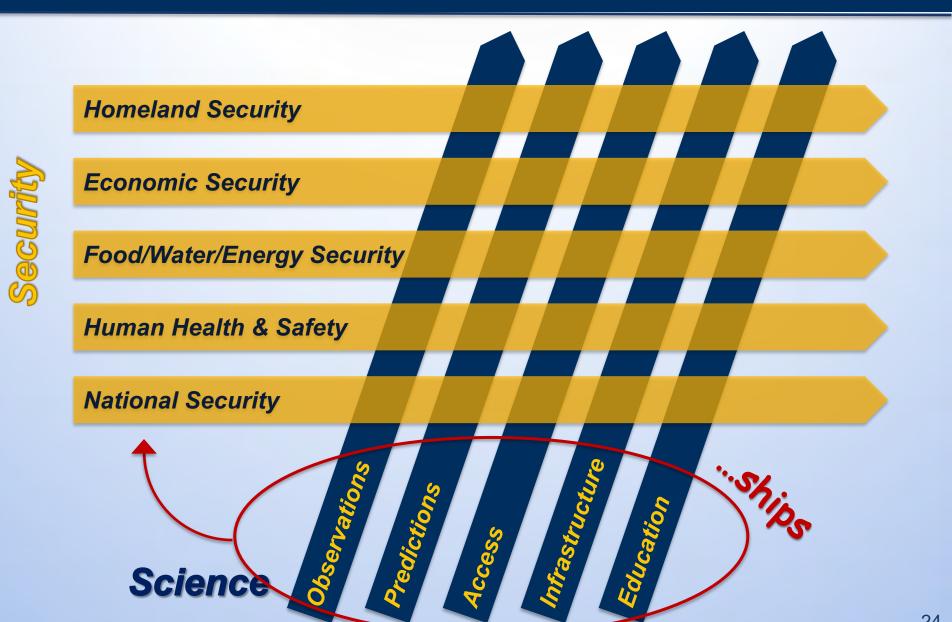
PartnerSHIP



ScholarSHIP, \$ponsorSHIP, EnterpreneurSHIP,



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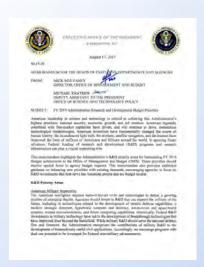


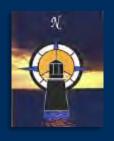
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President's FY19 R&D Priorities



- R&D Priority Areas
 - American Military Superiority
 - American Security
 - American Prosperity
 - American Energy Dominance
 - American Health
- R&D Priority Practices
 - Increasing Government Accountability and Efficiency
 - Supporting Innovative Early-Stage Research
 - Maximizing Interagency Coordination
- R&D Workforce and Infrastructure
 - Developing a Future-Focused Workforce
 - Modernizing and Managing Research Infrastructure

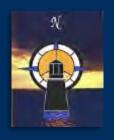




COL – NAML Opportunities for Collaboration



- Congressional & Agency engagement
 - Including OMB
- Legislative actions
- Policy activities (briefings, etc.)
- Joint meeting activities
- Ocean Science and Tech meeting activities
 - e.g., AGU 2018 Town Hall
- > ???



COL – NAML Opportunities for Collaboration



Next Steps:

- Schedule President President telcon to discuss further
- Execute reciprocal membership
- Identify organizational POC's to advance collaboration
- NAML President speak at COL Fall Members Meeting (Oct 25, 2018)
- ???



Opportunities: Ocean Science & Technology

Technology

Miniaturization

Artificial intelligence

Data Management

Science
eDNA
Gnomics
Biochemistry
Sound





Ocean science is not just "science for science's sake"; it's science with survival at stake.

... this shouldn't be a secret