Opportunities for Closer Collaboration?

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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
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.
On the brink?

Challenges and Opportunities
Ocean Science + Global Security = “Ocean Security”

- Homeland Security
- Economic Security
- Food/Water/Energy Security
- Human Health & Safety
- National Security

Science
- Observations
- Predictions
- Access
- Infrastructure
- Education
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 irritation, eye irritation
- Diarrhea, vomiting

For animals, the toxins can cause:
- Diarrhea, vomiting
- Convulsions and death

Coastwatch
North Carolina Sea Grant • Spring • 2017 • Issue 2 • 51.75
Resilient Coastal Communities: North Carolina's Past, Present and Future
National Security
Earth System Knowledge
Ocean, Climate, Weather, Ice, …
Earth System Knowledge
Ocean, Climate, Weather, Ice, …
Do we need ships?
We need SHIPs!

- LeaderSHIP
- OwnerSHIP
- PartnerSHIP
- StewardSHIP
- ScholarSHIP
- SponsorSHIP, EntrepreneurSHIP, ...
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Science: Observations, Predictions, Access, Infrastructure, Education

...ships
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
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
- ???
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

Science Based Decision-Making
Action
Ocean science is not just “science for science’s sake”; it’s science with survival at stake.

... this shouldn’t be a secret