

Considerations for the U.S. IOOS Advisory Committee

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Interagency Ocean Observation Committee
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IOOC Response to the “U.S. IOOS Vision”



We agree:

- Capitalizing on the successful U.S. IOOS response to Sandy and other disasters is essential
- Encouraging more interagency and non-governmental activities to shape the enterprise

We support:

- Enabling better access to IOOS information
- Responding to the needs of IOOS stakeholders
- Enabling innovation of IOOS products and services
- Promoting new research and tech implementation

U.S. IOOS Advisory Committee Statement for:

BENEFITS FROM OCEAN INFORMATION IN THE SMARTPHONE ERA

The U.S. Integrated Ocean Observing System (IOOS¹) is an investment of tremendous national value and significant importance. As an enterprise among federal, regional, and institutional observing programs, IOOS links ocean¹ sensing information together to provide important real-time data to enhance our nation's predictive capability and decision support infrastructure. IOOS has proven effective in protecting lives, property, and the environment and provides a foundation from which expanded partnerships can continue to generate valuable private, public, and national opportunities.

In the last ten years, Americans have felt over \$100B of financial impact due to tsunamis, hurricanes, and fisheries collapses. The impacts of natural hazards, in particular, are large. Lives are lost and people displaced. Property is damaged - sometimes irreparably. Jobs are eliminated or set back, and environmental damage is significant - sometimes permanent. IOOS is now relevant in every major ocean event, enabling us to reduce these losses by supporting day-to-day decision making through a decision support system based upon ocean science and technology advances.

U.S. IOOS Data and Products were used to forecast and prepare for Superstorm Sandy

Just before Superstorm Sandy, IOOS information allowed vessels in the ports of NY and NJ to be diverted to other east coast ports. Over 23,000 cargo vans were safely delivered and then trucked or shipped via rail to the NY-NJ metropolitan region. This action ensured the critical 2012 Christmas shopping season occurred without disruption.

In Hoboken, NJ, 1,700 buildings were severely flooded, impacting up to 34,000 people. Advanced warnings provided by IOOS-derived storm surge forecasts reduced more extensive damage to property, allowed for timely evacuation, and spared discomfort, injury, or worse. The mayor's decision to order the evacuation of thousands of ground floor apartments by midnight the day before landfall saved a significant number of lives.

The Navy's Atlantic Fleet Headquarters sent 80 ships out of Hampton Roads ports and shipyards three days prior to the onset of the storm at a cost of \$10M. All safely exited with no damage or loss of life. Based on historic damage to the fleet from past hurricanes, a storm of Sandy's magnitude otherwise could have caused \$500M in damage to ships.

U.S. IOOS works, but is incomplete. Imagine the power of a comprehensive IOOS!

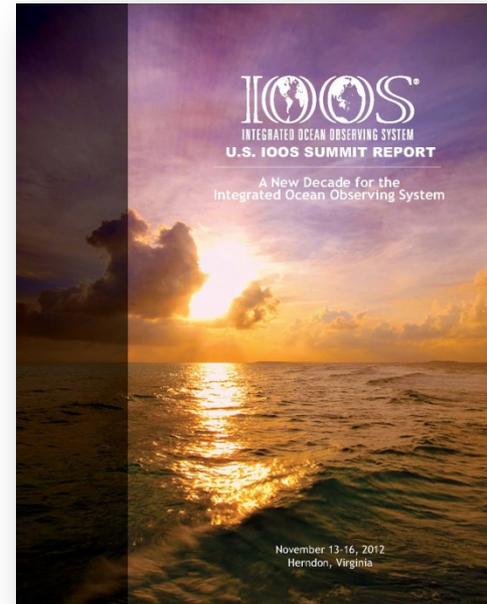
¹ The word "ocean" is used in this document to denote oceans, coasts, and the Great Lakes.

U.S. IOOS Summit Report



25 comprehensive recommendations from the white papers by industry experts, the Summit itself, and the report themes:

- Governance
- Funding
- Design
- System Integration
- Observations and Technology
- Data Management and Communication
- Modeling and Analysis



Access the report online at - www.iooc.us/summit

IOOS Advisory Committee Recommendations



Recommendation #6. (Governance)

- The U.S. IOOS Advisory Committee consider mechanisms to strengthen the leadership and consolidation of U.S. IOOS efforts

Recommendation #8. (Funding)

- The U.S. IOOS Advisory Committee provide guidance on:
 - 8.1. Public/private partnerships
 - 8.2. The legalities/liabilities commercializing IOOS products
 - 8.3. The development of business case(s) to support private investment
 - 8.4. Crowd-sourcing for individual projects
 - 8.5. Established cooperative mechanisms

Recommendation #14. (Design)

- The IOOC and U. S. IOOS Advisory Committee jointly review the draft plan of processes for the basic work of U.S. IOOS (Rec. #13) due Aug. 2014; recommend and assess implementation priorities

IOOC Priority Recommendations



#	Recommendation
13	Develop draft plan for the basic work of IOOS
16	Direct periodic IOOS-wide assessments
17	Organize annual disaster response drills
18	Plan series of annual integration projects
19	Address identified gaps
22	Expand and improve data and product standards
23	Address biological data and product issues
24	Coordinate data quality efforts
25	Work to improve IOOS models

