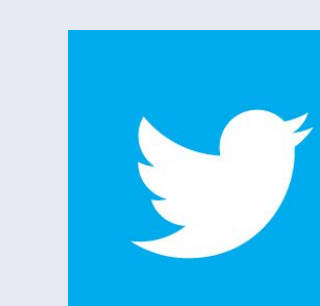


The Future of Nearshore Processes Research: U.S. Integrated Coastal Research Program



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Let's connect!

QR code to www.asbpa.org

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Motivation

- Need for investment in U.S. academic coastal engineering & science programs
- Benefits of collaborative coastal field experiments (e.g., Duck FRF)
- U.S. investment in foreign expertise, particularly post-Katrina
- Perceived overlap in federal coastal research programs
- Increased interest in coastal community resilience
- More research requirements than one agency/organization can address

REPORT HIGHLIGHTS

Three Broad Research Themes

1. **Long-term coastal evolution** due to natural and anthropogenic processes
2. **Extreme Events:** Flooding, erosion, and the subsequent recovery
3. The physical, biological and chemical processes impacting **human and ecosystem health**

Community Recommendations

1. **Establish a Nearshore Advisory Council (NAC)** - academic organization
2. **Build U. S. Nearshore Research Program** - a sustained, coordinated program funded by multiple agencies

COASTAL FORUM:

The future of nearshore processes research

By

The Nearshore Processes Community

Edited by

Nicole Elko, Falk Feddersen, Diane Foster, Cheryl Hapke, Jesse McNinch, Ryan Mulligan,
H. Tuba Özkan-Haller, Nathaniel Plant, and Britt Raubenheimer

December 2014



2014 Workshop

- Attendees:
 - 30 Institutions
 - 43% Academics
- 7 Federal Agencies:
 - USACE, USGS, NOAA, FEMA, Office of Naval Research (ONR), National Park Service (NPS), U.S. Coast Guard
- Goal: To identify societally relevant coastal science questions, informed by agencies, to address over next decade or more.

2015 Report

- Community Effort
 - 100 reviewers
 - 40 contributors
 - 8 editors
- Basis for interagency and community collaboration toward a U.S. coastal research program.



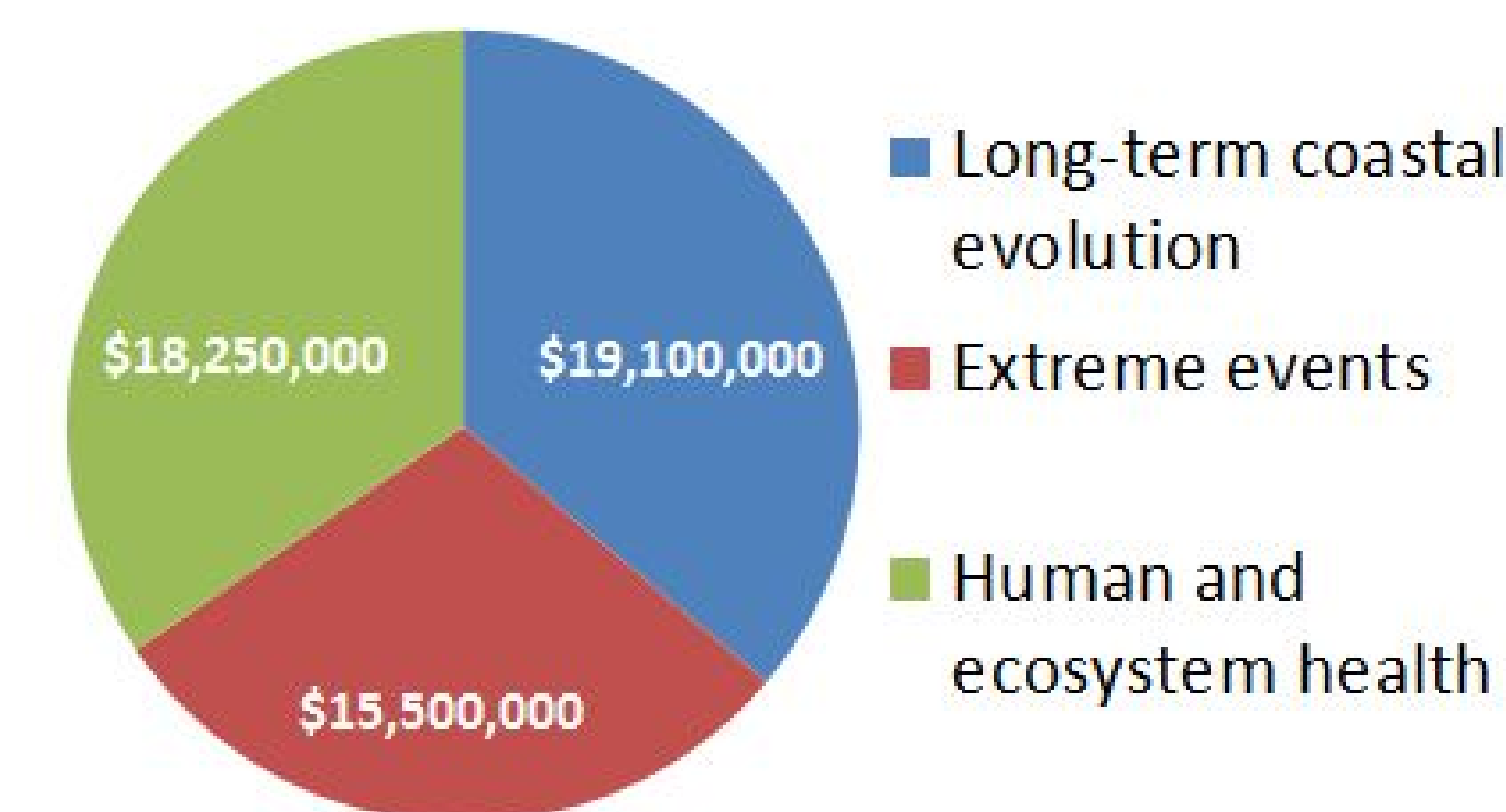
Figure 1. Cover of the Future of Nearshore Processes Report with summary of the Past and Future of Nearshore Processes Research workshop and the report writing effort and outcome.

QUANTIFYING THE INVESTMENT

Total annual research budget for 6 agencies: \$100M*

*Of that, \$12M goes to academic research; NSF funding is not included.

Figure 2. Annual coastal research investment for USACE, USGS, ONR, Bureau of Ocean Energy Management (BOEM), NOAA, and NPS by nearshore processes report research theme. Total is < \$100M due to investment in other topic areas.



IMPLEMENTATION

On February 9, 2016, the USACE Coastal Engineering Research Board invited and met with representatives from USACE, USGS, NSF, ONR, NOAA, FEMA, BOEM, NPS, Nuclear Regulatory Commission, ASBPA, and the newly formed NAC. They agreed on the following vision, plan, and approach to develop a plan for integrating federal agency coastal research, with other national research, such as funded/conducted by states, academics, communities, and Non-Governmental Organizations (NGOs), by the end of 2016.

VISION: Through collaboration of federal agencies, academia, NGOs, and states and local communities, develop a collaborative U.S. Coastal Research Implementation Plan to gain efficiencies investigating the 3 research themes identified in the *Future of Nearshore Processes Research* report and support the next generation of coastal scientists & engineers.

PROPOSED APPROACH (dates in 2016):

- Build the Team
- Agree on a path forward (Feb 9)
 - ▶ Call with Program Leads (2-hr, Feb 26)
- Assemble the Program Leads (March 21-23)
- Create Federal Action Plan (May 15)
 - ▶ Initial Agency review, subject matter experts (SMEs) connect, Non-Feds begin
- Report back to Leadership (Jul 1)
 - ▶ Final Agency review, SMEs continue, Non-Feds continue
- Report back to Leadership (Aug 15)
 - ▶ Draft National Action Plan
- Nationalize the Federal Action Plan (Sep 30)
- Implement the National Action Plan (Oct 1)



Figure 3. Strategic Plan for U.S. Coastal Research Program development

Acknowledgements

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