

2025-2035 Decadal Survey of Ocean Sciences for the NSF

Study Overview

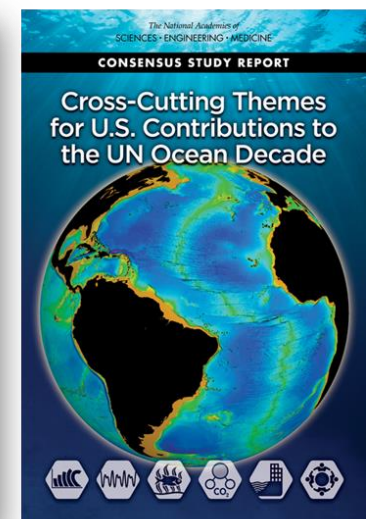
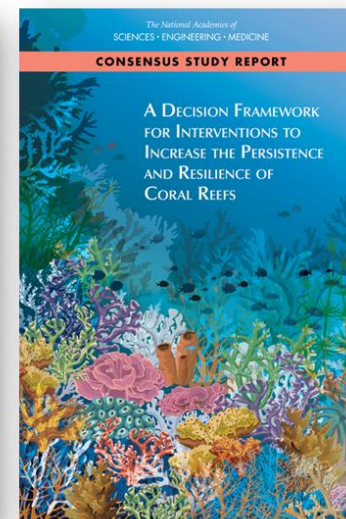
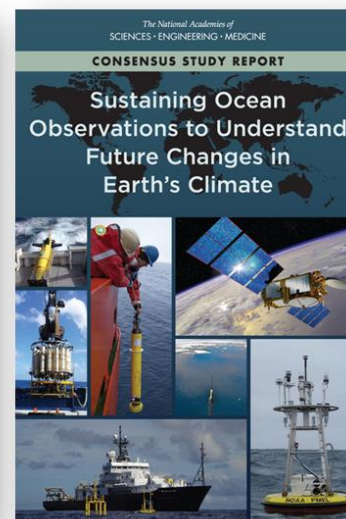
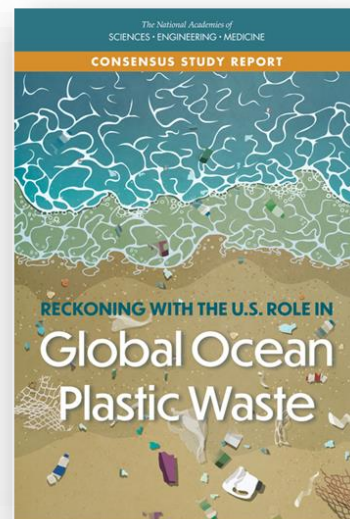
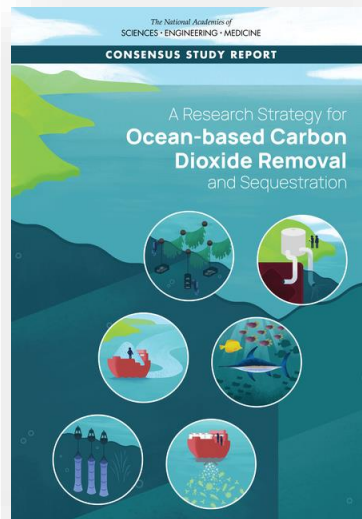
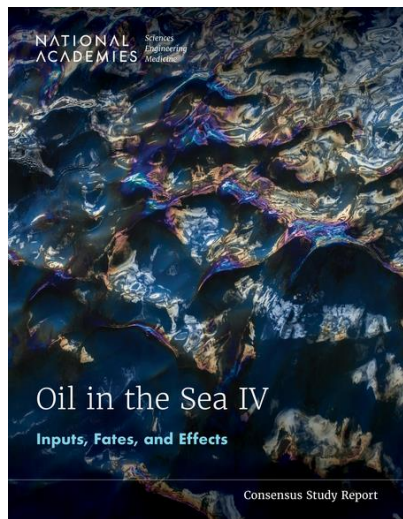
Being presented by:
Mona Behl, Associate Director of Georgia Sea Grant
(on behalf of the Decadal Survey Committee)

Credit: Kelly Oskvig, Senior Program Officer, OSB

The National Academies of Sciences, Engineering, and Medicine

The nation's preeminent source of expert, evidence-based & objective advice on science, engineering, and health matters.

- Informs policy with evidence
- Sparks progress and innovation
- Confronts challenging issues for the benefit of society



Project Overview

- 27-month consensus study
- Sponsor: NSF Division of Ocean Sciences (OCE)
- Start date: February 15, 2023
- 6 Hybrid meetings + monthly virtual meeting
- Ad hoc committee of 23 volunteers
- Interim report release March 13, 10am ET
- Final report due by March 15, 2025

Decadal Survey of Ocean Sciences Committee

Tuba Ozkan-Haller, Oregon State University (Co-Chair)

James (Jim) Yoder, Woods Hole Oceanographic Institute & University of Rhode Island (Co-Chair)

Lihini Aluwihare, University of California, San Diego's Scripps Institution of Oceanography

Mona Behl, University of Georgia

Mark Behn, Boston College

Brad DeYoung, Canadian Integrated Ocean Observing System & Memorial University

Carlos Garcia-Quijano, University of Rhode Island

Peter Girguis, Harvard University

Leila Hamdan, University of Southern Mississippi

Marcia Isakson, University of Texas at Austin

Jason Link, National Oceanic and Atmospheric Administration

Allison Miller, Schmidt Ocean Institute

Bradley Moran, University of Alaska Fairbanks

Richard Murray, Woods Hole Oceanographic Institution

Stephen Palumbi, Stanford University

Ella (Josie) Quintrell, Integrated Ocean Observing System Association

Yoshimi (Shimi) Rii, Hawai'i Institute of Marine Biology

Kristen St. John, James Madison University

Kersey Sturdivant, INSPIRE Environmental & Duke University

Ajit Subramaniam, Columbia University

Maya Tolstoy, University of Washington

Shannon Valley, Vistant

James (Jim) Zachos, University of California, Santa Cruz

Project Context

- 2nd Decadal Survey for NSF OCE
 - Sea Change: 2015 – 2025 Decadal Survey
- What's different this round?
 - Last survey was focused on balancing the budget between infrastructure and science
 - This survey is focused on the science needed in the next decade and beyond
 - What are the few questions that NSF should be supporting in addition to their regular portfolio?
 - Opportunities to do things differently; build new partnerships; promote use-inspired research, approaches that foster diversity and inclusion



Statement of Task – Full Report

1. Identify novel opportunities regarding ocean-related, use-inspired, solutions-oriented research and innovation.
2. Identify opportunities and strategies to promote innovative multidisciplinary and multi-sectoral approaches to address complex science challenges arising from the intersection of natural processes, societal needs, and human-driven environmental change.
3. Develop a portfolio of high-priority, scientific questions that have the potential to transform scientific knowledge of the ocean and the critical role of the ocean in the Earth system.
4. Identify the research infrastructure needed to advance the high-priority ocean science research questions
5. Develop a framework that OCE can apply to leverage and complement the capabilities, expertise, and strategic plans of its partners

Statement of Task – Interim Report

1. Based on previous reports, assess progress on addressing high priority science questions that require scientific ocean drilling and identify new, if any, equally compelling science questions that would also require scientific ocean drilling.
2. Of the unanswered scientific questions, which could be addressed through the use of existing scientific drilling assets including sediment or rock core archives and existing platforms, and which questions would require new infrastructure or sampling investments?

Interim Report Release – March 13, 10am ET!

Project Timeline

Date	Event / Milestone
February, 2023	Contract Received, Call for nominations issued
June 21-22, 2023	Committee Meeting 1, Washington, DC
August 2-3, 2023	Committee Meeting 2, Washington, DC (Scientific Ocean Drilling)
October 24-25, 2023	Committee Meeting 3, Portland, OR (AI/ML, Co-Design and Co-development, Research Priorities for OCE, etc.)
November, 20, 2023	Virtual Meeting on Marine LTER
January 31, 2024	Virtual Meeting on Geohazards
February 15-16, 2024	Committee Meeting 4, Gulfport, MS (ARF, Equity, Biodiversity, Public/ Private Partnerships, etc.)
February, 2024	Town Hall at Ocean Sciences
March 11, 2024	Deliver interim report to NSF and the Public
March 26, 2024	Virtual Meeting Topics TBD
April 24, 2024	Virtual Meeting Topics TBD
May 15-16, 2024	Committee Meeting 5, Newport, RI (Coastal Ocean/ Urban Seas, hard rock, etc.)
June 25, 2024	Virtual Meeting Topics TBD
July 30-31, 2024	Committee Meeting 6, Irvine, CA
Fall, 2024	Peer Review and prepare for publication
March, 2025	Final report due

We need you!

Pathways for helping the committee:

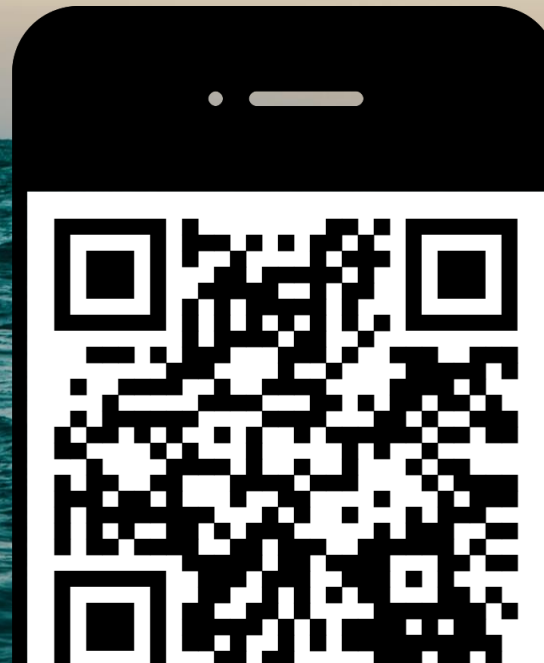
- Fill out the Virtual Town Hall
- Help build the community - attend meetings, forward meeting and release notices to your networks
- Share any resources you think the committee should be aware of, particularly those that are not as easily accessible
- Provide feedback directly to the committee
 - Contact study director: koskvig@nas.edu
 - Click the “public feedback” link on our project website

Town Hall Questions

- 1) What are the most important scientific topics or questions that have the potential to transform scientific knowledge of the ocean and the critical role of the ocean in the Earth system over the next decade and beyond?
- 2) What evaluation criteria should the committee consider in developing research priorities for the NSF's OCE?

Virtual Town Hall

Please provide your input on the most pressing ocean science priorities!



Stay up to date!

g/our-work/2025-2035-decadal-survey-of-ocean-sciences-for-the-national-science-foundation



2025-2035 Decadal Survey of Ocean Sciences for the National Science Foundation

SHARE [f](#) [t](#) [in](#) [✉](#)



- About
- Upcoming Events
- Description
- Committee
- Sponsors
- Past Events
- Contact

The Decadal Survey will advise the National Science Foundation's Division of Ocean Sciences (NSF OCE) on forward-looking approaches to guide investments in research, infrastructure, and workforce development. The committee will develop a compelling research and infrastructure strategy to advance understanding of the ocean's role in the Earth system and the sustainable blue economy. The report will recommend ways that NSF OCE could develop the capacity to respond nimbly as priorities change and new opportunities emerge over the 2025-2035 decade.

Provide feedback on this project

- Project Description
- Committee
- Upcoming Events
- Past Events
- Sponsors
- Contact Info
- Provide Feedback

<https://www.nationalacademies.org/our-work/2025-2035-decadal-survey-of-ocean-sciences-for-the-national-science-foundation>