

The National Academies of
SCIENCES • ENGINEERING • MEDICINE

DRAFT AGENDA

November 9-10, 2021

97th Meeting of the
OCEAN STUDIES BOARD
The National Academies of Sciences, Engineering and Medicine

Virtual Meeting

Meeting Highlights:

- Updates from the House and Senate Ocean Caucuses
- Briefings on new fisheries reports
- Scoping sessions on Digital Twins and Ocean Deoxygenation
- Annual Meeting of the US National Committee for the Decade of Ocean Science for Sustainable Development

Tuesday, November 9, 2021

OPEN SESSION

- 1:00 pm** **Briefing on Next Generation Earth Systems Science at the National Science Foundation**
Ruth DeFries, *Columbia University* and George Hornberger, *Vanderbilt University*,
Committee Co-Chairs
Terry Quinn, *Director Ocean Sciences Division, NSF*
- 2:00 pm** **Legislative Updates**
House Committee on Science, Space, and Technology: Lauren Linsmayer, *Professional Staff Member, Environment Subcommittee*
House Ocean Caucus: Jenna Marinstein, *Legislative Assistant for Congresswoman Suzanne Bonamici*
Senate Ocean Caucus: Maya Becker, *Knauss Sea Grant Fellow, Senator Lisa Murkowski*
- 2:30 pm** **Discussion**
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- 3:00 pm** **Briefing on *The Use of Limited Access Privilege Programs in Mixed-Use Fisheries (2021)*** — Bonnie McCay, *Rutgers University, Committee Chair* and Marty Smith, *Duke University, Committee Member*
- 3:30 pm** **Briefing on *Data and Management Strategies for Recreational Fisheries with Annual Catch Limits (2021)*** – Michelle Duval, *Mellivora Consulting* and Kai Lorenzen, *University of Florida, Committee Members*
- 4:00 pm** **Panel Discussion**
Moderator Thomas Miller, *University of Maryland, OSB member*
- Tom Frazer, *University of South Florida; past-Chair, Gulf of Mexico Fisheries Management Council*
 - Lindsay Fullenkamp, Richard Cody, Lindsey Kraatz, Cisco Werner, *NOAA Fisheries*
 - Sean Powers, *University of South Alabama and the Dauphin Island Sea Lab, Committee Member*
- 5:00 pm** **Adjourn**

Wednesday, November 10, 2021

OPEN SESSION

SCOPING NEW STUDY TOPICS

12:30 pm **Introduction to scoping session goals—**

Objective: explore the issue of digital twin(s) and ocean deoxygenation to determine whether these topics would benefit from a focused NASEM study. If so, participants will be asked to help frame a study to best meet the needs of potential sponsors.

Digital Twin(s) of the Ocean or Earth

What are they, what will they enable, and what will be needed for success?

12:45 pm **Introduction**

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1:00 pm **Panel Discussion** (each panelist will give a 10 min presentation with 5 min for follow-up Q&A)

Moderator Patrick Heimbach, *UT Austin*

- Karen Willcox, *UT Austin*
- Peter Bauer, *ECMWF*
- Martin Visbeck, *GEOMAR Helmholtz Center for Ocean Research and Kiel University*
- Melissa Kenney, *University of Minnesota*
- Lisa Campbell, *Duke University*
- Grace Young, *X, Alphabet's Moonshot Factory (formerly GoogleX)*

2:30 p.m. **Discussion of concepts for study on digital twins and next steps**

2:50 p.m. ***Short break***

Declining Oxygen in Ocean Waters

Objective: explore the issue of ocean deoxygenation to determine whether this is a topic that would benefit from a focused NASEM study. If so, participants will be asked to help frame the study to best meet the needs of potential sponsors. This scoping session is intended to be a conversation with stakeholders to help us design a potential study.

3:00 pm **Introduction**

3:15 pm **Keynote**—Denise Breitburg, *Smithsonian Environmental Research Center*

3:45 p.m. **Panel Discussion**

Moderator Julie Pullen, *Jupiter*

- Matt Long, *Woods Hole Oceanographic Institution*
- Dimitri Gutiérrez, *Instituto del Mar del Perú*
- Curtis Deutsch, *Princeton University*
- Others, *TBD*

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4:30 p.m. Discussion of concepts for study on ocean deoxygenation and next steps

5:30 pm Adjourn

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