

IOOS Advisory Committee Meeting - Speakers Bios



Carl Gouldman- Director, U.S. IOOS Program

Carl Gouldman took the helm as Director of the U.S. Integrated Ocean Observing System (IOOS ®) Office in February 2017. Prior to becoming the director, Carl served as the Deputy Director of the program since June 2014 and has been in NOAA since 2000. U.S. IOOS is our eyes on the ocean, coasts, and Great Lakes, and we are an integrated network of people and technology gathering observing data and developing tracking and predictive tools to benefit the economy, the environment, and public safety at home, across the nation, and around the globe

Before NOAA, Carl spent 3 years in the education department at the Chesapeake Bay Foundation where he led field programs teaching students about bay ecology and conservation. He holds a B.S. in political science from Duke University and a Masters (MEM) in Coastal Environmental Management from the Nicholas School of the Environment and Earth Sciences at Duke.



Josie Quintrell - Executive Director, IOOS Association

Josie Quintrell currently serves as Executive Director of the IOOS Association, a non-profit organization that is dedicated to empowering decisions about our ocean, coastal and Great Lakes through effective implementation of the US Integrated Ocean Observing System (IOOS). The IOOS Association works with the eleven IOOS Regional Associations that design and operate regional coastal observing systems to collect, integrate and produce information for users. IOOS integrates the efforts of multiple federal agencies and the regional system to deliver products to users to protect lives, protect healthy ecosystems, and to support the economic vitality of our coastal regions. Josie has over 25 years experience in coastal and ocean management and policy. She has a Masters in Regional Planning from Cornell University and a B.A. from Colby College. She lives on the coast of Maine with her husband and has two grown children.



Laura Lorenzoni - Program Scientist, NASA Science Mission Directorate and Interagency Ocean Observation Committee (IOOC) Co-chair

Laura is a Program Scientist for the Ocean Biology and Biogeochemistry Program (OBB) in the NASA Headquarters Science Mission Directorate. The OBB program focuses on describing, understanding, and predicting biological and biogeochemical conditions, interactions and changes in the upper ocean, as determined by observation using remote sensing and in situ data.

Laura completed her undergraduate in Biology at the Universidad Simon Bolivar (Venezuela), and subsequently earned both her Master's and PhD degrees in Marine Science at the University of South Florida. Her research interests include land-ocean interactions, and the influence of rivers on transport and distribution of dissolved and particulate organic matter in the coastal ocean. For over a decade, she worked with the CARIACO Ocean Time-Series project, and has been an advocate of time-series (in situ ship-based and autonomous, as well as satellite remote sensing) as tools to understand natural and anthropogenic changes in the ocean.



Mark S. Osler - Senior Advisor for Coastal Inundation and Resilience, National Oceanographic and Atmospheric Administration

Mark Osler is the Senior Advisor for Coastal Inundation and Resilience for the U.S. National Oceanic and Atmospheric Administration (NOAA). His leadership advances coastal science and the ability of decision makers to prepare for and respond to changes affecting the nation's coastlines. He serves as senior advisor to NOAA leadership on defining research, applied science, and policy priorities related to understanding and reducing impacts of coastal risk to the public, our national security, and our nation's economy.

Mark's inter-agency leadership includes:

- US Government representative to the G7's Ocean Risk and Resilience Action Alliance
- Federal Coordinating Lead Author - Coastal Effects Chapter - 5th National Climate Assessment
- Co-Chair Coasts Workgroup - US Global Change Research Program
- Co-Chair Subcommittee on Water Information and Services - ICAMS
- NOAA representative within various White House interagency fora including the National Security Council, Office of Science and Technology Policy, and the Council on Environmental Quality.

Prior to joining NOAA Mark worked for 17 years in the private sector. He holds a bachelor's degree in civil engineering from Lehigh University and a master's degree in civil engineering from the University of Delaware's Center for Applied Coastal Research.



Richard W. Spinrad, Ph.D. - Under Secretary of Commerce for Oceans and Atmosphere & NOAA Administrator

Richard (Rick) W. Spinrad, Ph.D., was sworn in on June 22, 2021 as the Under Secretary of Commerce for Oceans and Atmosphere and the 11th NOAA Administrator. Dr. Spinrad is responsible for the strategic direction and oversight of the agency and its over 12,000 employees, including developing NOAA's portfolio of products and services to address the climate crisis, enhancing environmental sustainability and fostering economic development, and creating a more just, equitable, diverse, and inclusive NOAA workforce.

Most recently, Dr. Spinrad served as a Professor of Oceanography and Senior Adviser to the Vice President of Research at Oregon State University (OSU). He was also Vice President for Research at OSU from 2010-2014. Previously, Dr. Spinrad served as NOAA's Chief Scientist under President Barack Obama from 2014 until 2016. He also led NOAA's Office of Oceanic and Atmospheric Research and National Ocean Service from 2003-2010. While at NOAA, Dr. Spinrad co-led the White House Committee that developed the nation's first set of ocean research priorities and oversaw the revamping of NOAA's research enterprise, including the development of the agency's Scientific Integrity policy. Dr. Spinrad received his B.A. in Earth and Planetary Sciences from The Johns Hopkins University, and his M.S. and Ph.D. in Oceanography from Oregon State University.



Gabrielle Canonico, MBON Program Manager, U.S. IOOS Program

Gabrielle is part of the U.S. Integrated Ocean Observing System (U.S. IOOS) Program, housed in NOAA. Her efforts focus on integration of marine life observations and data into U.S. IOOS and the Global Ocean Observing System (GOOS), development of information products to ensure wide use of biodiversity observations by resource managers and the public, and advancing efforts to ensure sustained monitoring of ocean life and biodiversity. Gabrielle led development of the interagency-supported U.S. Marine Biodiversity Observation Network (MBON), which was established in 2013. She is active in development of global MBON and related efforts, is co-lead of the UN Ocean Decade Marine Life 2030 Programme, and serves as co-chair of the GOOS Biology and Ecosystem Panel.



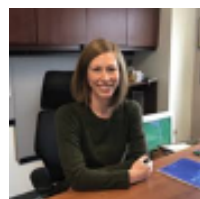
Oriana Villar, Regional Coordinator, U.S. IOOS Program

Oriana joined the IOOS Program in April 2020 taking on the Regional Coordinator position for the office, providing oversight to federal funding opportunities, serving as technical expert for regional grants, and advancing regional coordination with national level activities. She has been with NOAA for more than 10 years and came to IOOS most recently from Fisheries International Affairs. Oriana holds an M.S. degree in Coastal Engineering/physical Oceanography from the University of Cantabria - Grupo de Ingenieria Oceanografica y Costas and a B.S. degree in Marine and Freshwater Biology/Marine Sciences from the University of New Hampshire.



Avichal Mehra, Chief of Dynamics and Coupled Modeling Group, NWS/NOAA

Dr. Avichal Mehra has about 25 years of experience leading and performing scientific development and research in the areas of operational forecasting, dynamics of coupled atmosphere-land-ocean-wave models, numerical analysis, model diagnostics, and analyzing and interpreting geophysical data and model results. As Chief of the Dynamics and Coupled Modeling Group, Dr. Mehra has taken on the responsibility of providing key science and technical leadership/supervision to help build global and regional UFS-based coupled applications and frameworks for future operational systems at National Weather Service/National Centers for Environmental Prediction (NWS/NCEP). Dr. Mehra has been involved with the development and transition of operational Hurricane Models and operational Ocean Forecast systems at NWS/NCEP for more than a decade and serves as a Co-lead of the UFS Global Application Team, Co-chair of ICAMS implementation team for Global Coupled Modeling and represents NWS/NCEP in WMO/IOC's Expert Team on Operational Ocean Forecast Systems (ETOOFS).



Kathleen Bailey, Glider Program Manager, U.S. IOOS Program

Kathleen (Kathy) Bailey is currently the U.S. IOOS Glider Program Manager. She has been a federal employee with NOAA since 2007, and started at the NOS Center for Operational Oceanographic Products and Services (CO-OPS) leading projects that included development of data products and the installation of the first CO-OPS visibility station in Mobile Bay, as part of the Physical Oceanographic Real Time System (PORTS). She moved to the U.S. IOOS Office in 2015 and joined the Data Management and Cyberinfrastructure team with a focus on integrating regional ocean observations into NOAA in coordination with the NWS National Data Buoy Center. Kathy currently splits her time between the IOOS Glider and DMAC programs, and leads DMAC projects such as the IOOS Model Viewer (eds.ioos.us) and the Quality Assurance/quality control of Real Time Oceanographic Data (QARTOD).