

DRAFT CoPe Workshop Schedule

NSF Funded CoPe Workshop: Interoperability and data needs of models for understanding vulnerability of coastal systems to stresses and shocks associated with climate change and sea level rise

Dates: September 8, 2020

Duration: 1 day (9 am to 4:15 pm)

All times indicated below in Eastern Standard Time (EST)

Workshop Objectives:

1. Understand the interactions of biophysical, social-behavioral, and economic systems in coastal regions
2. Explicitly define new data gaps that can be addressed by nongovernmental, local, regional, and federal networks for the formulation of a comprehensive Coastal Observatory
3. Develop interoperability requirements of data and models

Plenary Welcome

0900-0910 **Workshop Objectives and logistics.** Jayantha ('Obey') Obeysekera

0910-930 Todd Crowl, Director, Institute of Environment, Florida International University
Welcome and Key Note: A Vision for Observations and Models in Physical, Social, and Economic Systems in Coastlines

Session I. Behavioral/Social Science Observations and Models

0930-0945 Christopher Emrich, University of Central Florida
Title: Hazard Vulnerability Science: From Background to Metrics, Models, and Measurements

0945-1000 Sam Brody, Center for Texas Beaches and Shores
Title: Texas Disaster Information System (TDIS)

1000-1015 Jonathan Gilligan, Vanderbilt University
Title: Accounting for human behavior in models of coupled natural and human systems

1015-1030 Ali Mostafavi, Texas A&M
Title: Complex Modeling for Robust Adaptation Planning of Infrastructure Systems to Sea-level Rise Impacts

1030-1040 Break

Session II. Economic Observations and Models

1040-1055 Jeff Adkins, Senior Economist, NOAA
Title: Defining and Measuring the U.S. Ocean Economy

1055-1110 David Ryder, ICF
Title: Economic modeling of hazards in coastal systems

1110-1125 Jeff Czajkowski, Center for Insurance Policy and Research (CIPR)
Title: Understanding Economic Impacts of Flooding

1125-1140 Plenary Q and A

Session III. Biophysical Observations and Models

1140-1155 Carl Gouldman, IOOS Program Office
Title: Biological Observations and Models

1155-1210 Debra Hernandez, SECOORA
Title: Opportunities and innovations in monitoring for improving coastal hazard resilience

1210-1225 Tom Shyka, NERACOOS
Title: Coastal Inundation Forecast Systems

1225-0100 Lunch break

Session III (Continued)

0100-0115 Topic and Speaker to be determined

0115-0130 Jim Morris, University of South Carolina
Title: Evolution of Marsh Equilibrium Theory: From Marshes to Mangroves

0130-0145 Margaret O'Brien, Marine Science Institute, University of California, Santa Barbara
Title: Incorporating Heterogeneous Ecosystem Research Data into Synthesis and Model Validation

0145-0200 Jon Derek Loftis, Virginia Institute of Marine Science
Title: Validating Operational Flood Forecast Hydro Models at the Street-Level Using Sensors and Citizen Science

0200-0215 Scott Hagen, Louisiana State University Center for Coastal Resiliency
Title: Shifting the Paradigm of Climate Change Assessment at the Coastal Land-Margin: A Decade of Progress on the Coastal Dynamics of Sea Level Rise

0215-0230 Patrick Bernard, US Geological Survey

Title: Developing a nationally-consistent approach for assessing future coastal hazards

0230-0245 Robert Lempert, RAND

Title: Decision Support for Risk Management of Integrated Physical, Social/Behavioral, and Economic System

Session IV. Plenary Discussion

0245 – 0400

Interoperability of Models and Observatory Systems associated with Coastal Regions

0400-0415 Closing