

PHYSICAL OCEANOGRAPHY DISSERTATION SYMPOSIUM XIII

GUEST SPEAKER:

Dr. Eric Chassignet, Department of Earth, Ocean and Atmospheric Science,
Florida State University

PODS ATTENDEES:

Physical Processes Regulating Hypoxia in a Tropical Estuary

Anne E. Adelson, Scripps Institution of Oceanography, University of California, San Diego

Marine Heatwaves Impact on Ecologically-Relevant Transport Dynamics in the Northeast Pacific

Élise Beaudin, Department of Earth, Environmental & Physical Sciences, Brown University

The Interplay Between Wind Stress and Buoyancy Fluxes in Shaping the Planet's Large- Scale Ocean Circulation

Dhruv Bhagtani, Research School of Earth Sciences, College of Science, Australian National
University, Australia

Constraining the Seasonal Evolution of Antarctic Sea Ice and Snow Using Under-Ice Ocean Observations and Modeling in a Lagrangian Framework

Ethan C. Campbell, School of Oceanography, University of Washington

An Examination of Western Boundary Currents in the Upper and Deep Ocean Using Globally Available Observations

Mitchell Chandler, Scripps Institution of Oceanography, University of California, San Diego

The Ocean's Role in Climate Variability and Predictability

Jacob Turetsky Cohen, School of Oceanography, University of Washington

The Influence of Arctic Sea Ice Properties on Ocean Near-Inertial Energy

Laura Crews, School of Oceanography, University of Washington

Eddy-Topographic Interactions

Alexis Johnson Exley, Graduate School of Oceanography, University of Rhode Island

Tidal Impacts on Nearshore Wave Climates

Allison Ho, Scripps Institution of Oceanography, University of California, San Diego

Machine Learning as a Tool to Predict and Understand Sea-Ice Motion in the Arctic

Lauren A. Hoffman, Department of Chemical Engineering, University of California, San Diego

Processes and Dynamics of Global to Regional Ocean Heat Uptake and Variability

Maurice F. Huguenin, School of Biological, Earth and Environmental Sciences, University of New South Wales, Australia

Monsoon Variability on the Physical Structure of the Near-Surface Indian Ocean and Its Influence on the Depth-Integrated Chlorophyll

Marufa Ishaque, Department of Ocean & Earth Sciences, Old Dominion University

Variability in Semidiurnal Surface and Internal Tides in Global Ocean Model Simulations

Harpreet Kaur, School of Ocean Science and Engineering, The University of Southern Mississippi

Physical Drivers of Seasonal Variability in the Tropical Angolan Upwelling System

Mareike Körner, Physical Oceanography, Kiel University, GEOMAR Helmholtz Centre for Ocean Research, Kiel, Germany

Addressing Chicken-or-Egg Complexities in Coupled Climate Dynamics and Energy Transport: Insights from Model Decomposition Methods

Matthew T. Luongo, Scripps Institution of Oceanography, University of California, San Diego

Variability and Forcing Mechanisms of the Weddell Gyre

Julia Neme, Climate Change Research Centre, University of New South Wales, Australia

Scale Analysis of Wind Work on the Oceanic General Circulation

Shikhar Rai, Department of Mechanical Engineering, University of Rochester

Impacts of the Atlantic Ocean's Circulation on the Components of Heat Balance and Precipitation

Maurício Rebouças Rocha, Physical Oceanography Department, Oceanographic Institute, University of São Paulo, Brazil

Big Ocean, Big Data: The Challenge of Co-Locating Profiles with Vortices Globally

Iury Tercio Simoes de Sousa, College of Engineering, University of Massachusetts, Dartmouth

Measuring Subsurface Circulation in Deep Stratified Marginal Seas

Samuel W. Stevens, Department of Earth, Ocean & Atmospheric Sciences, University of British Columbia, Canada

Role of Stratification on Shelfbreak Exchange Across the US Northeast Shelfbreak Front

Lukas Taenzer, Earth, Atmospheric & Planetary Sciences (MIT) & Physical Oceanography Department (WHOI)

An Experimental Study of Wave Growth Across a Wide Range of Wind Forcings

Peisen Tan, Ocean Sciences, RSMAS, University of Miami

Ocean Wave Dynamics with High Fidelity Numerical Simulations

Jiarong Wu, Mechanical & Aerospace Engineering Department, Princeton University

Turbulence and Mixing at Topographic Boundaries

Bethan L. Wynne-Cattanach, Scripps Institution of Oceanography, University of California, San Diego

**Impacts of Surface Waves on Turbulence in Ocean Surface Boundary Layers:
Observations and Scaling**

Zihua Zheng, School of Oceanography, University of Washington