



## Remote Sensing of Variables and Mesoscale Processes Linking the Ocean and Atmosphere

Guest Editors:

**Prof. Dr. Mark Bourassa**

Department of Earth, Ocean and  
Atmospheric Science, Florida  
State University, 600 W College  
Ave, Tallahassee, FL 32306, USA

**Dr. Carol Anne Clayson**

Woods Hole Oceanographic  
Institution, Woods Hole, MA  
02543, USA

**Alexander Wineteer**

Jet Propulsion Laboratory,  
California Institute of  
Technology, 4800 Oak Grove  
Drive, Pasadena, CA 91109, USA

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submissions:

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### Message from the Guest Editors

Recent studies have shown very strong coupling between the ocean and atmosphere on the oceanic and atmospheric mesoscale (approximately 10 to 100 km length scales). The impacts of these scales on ocean processes, weather, and climate have become a topic of wide interest. Recent observations qualitatively confirm some model expectations, but also demonstrate large departures between models and satellite observations. Interactions between winds and currents also influence the generation of ocean eddies (reducing the ocean's eddy kinetic energy) and influence the latitudinal envelope of western boundary current extensions that moves across the mid-latitude oceans. These currents supply heat to storms, as well as heat and moisture to countries down wind of these currents. The air–sea exchange and storage of gases is also modified by several of these processes, as is the carbon cycle through changes in primary productivity. Papers on all aspects of these interactions and possible satellite connections between observations and modeling are welcome.





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### Dr. Prasad S. Thenkabail

Senior Scientist (ST), U. S.  
Geological Survey (USGS), USGS  
Western Geographic Science  
Center (WGSC), 2255, N. Gemini  
Dr., Flagstaff, AZ 86001, USA

## Message from the Editor-in-Chief

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*Remote Sensing* Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland

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