



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

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Deadline for manuscript submissions:

**31 March 2024**

### 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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## Message from the Editor-in-Chief

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