Special Issue

Satellite-Derived 3D Wind Retrievals: Techniques, Applications and Model Impact

Message from the Guest Editors

This Special Issue of Atmosphere invites contributions that advance 3D wind derivation, including improvements to existing algorithms, quality control, error characterization, validation, and assessments of impact on weather prediction models. Contributions demonstrating innovative meteorological applications of 3D winds are also encouraged, particularly those that enhance understanding of atmospheric dynamics, and improve forecasting and nowcasting decision-making.

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Message from the Editor-in-Chief

Continued developments in instrumentation and modeling have driven atmospheric science to become increasingly more complex with a deeper understanding of concepts, mechanisms, and interactions. This is the field that innovation built and it has led to a better appreciation for the complexity with atmosphere. Human life is intertwined in this complexity as we strive to better understand our atmosphere. Climate change is constantly stretching the limits of our thinking and forcing new ideas and concepts to be played out. Welcome to the Anthropocene!

Editor-in-Chief

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