



Multi-source Meteorological Data Fusion and Assimilation Methods

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Message from the Guest Editor

The objective of this Special Issue is to showcase cutting-edge research, methodologies, and practical applications related to the fusion and assimilation of meteorological data from various sources. We encourage researchers, scientists, and practitioners in the field of meteorology to contribute their original work to this Special Issue, thereby fostering interdisciplinary collaboration and driving advancements in this crucial domain.

Topics of interest include, but are not limited to:

Innovative data fusion techniques for integrating meteorological observations from different sources;
Advanced assimilation methods for incorporating data into numerical weather prediction models;
Applications of multi-source data fusion and assimilation in improving weather forecasting accuracy and extreme weather event prediction;
Evaluation and validation of data fusion and assimilation techniques using observational and model data;
Challenges and future directions in multi-source meteorological data fusion and assimilation.





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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!

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