

## Special Issue

# Observations and Modeling of Clouds and Their Role in Climate

### Message from the Guest Editors

Observing clouds is essential for understanding the global water cycle, the Earth's radiation budget and monitoring extreme weather events, and their distribution plays an important role in regulating our climate. This Special Issue focuses on recent advances in the remote sensing of clouds, including the development of algorithms and the comparison and evaluation of cloud products. Topics include the study of cloud physics, the prediction of weather extremes and the role of clouds in climate change, including machine learning to develop artificial neural networks.

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### Guest Editors

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### Deadline for manuscript submissions

closed (25 June 2025)



## Atmosphere

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## About the Journal

### 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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### Editor-in-Chief

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