

## Special Issue

# Forest Ecosystems in a Changing Climate

### Message from the Guest Editors

Forests, the main body of the terrestrial ecosystem and where most carbon sequestration occurs on land, are the main non-oceanic force to slow the carbon dioxide (CO<sub>2</sub>) accumulation rate in the atmosphere. The volume, age, health, growth, and spatial and temporal variance impact the capacity of forests for carbon sequestration and climate warming mitigation. This Special Issue aims to better understand the interactions between forest ecosystems and the atmosphere, as well as the forests' response to a changing climate, through quantitative analysis of the exchange of energy, water, and CO<sub>2</sub> between forest and atmosphere, based on observations from the platform of land, airplanes, and satellites, and the technology of Remote Sensing, GIS, Machine Learning, and so on. We welcome any submission of original research articles and reviews on the interactions between forest and atmosphere, including but not limited to forest production, evapotranspiration, forest fires, forest cover change, tree mortality, forest ecology, etc., as well as their variations across space and time.

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### Guest Editors

Prof. Dr. Chuixiang Yi

Dr. Eric Kutter

Dr. Zhenkun Tian

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### Deadline for manuscript submissions

20 October 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

Dr. Daniele Contini

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