

## Special Issue

# Response of Land-Atmosphere Systems to Natural and Anthropogenic Disturbances at Middle and High Latitudes

### Message from the Guest Editors

Land-atmosphere systems involve a series of complex surface processes that substantially impact energy and water cycle. Nevertheless, the spatiotemporal patterns of land-atmosphere interactions over middle and high latitudes are largely unexplored due to the limited observational records and uncertainty in model simulations. The purpose of this Special Issue is to provide insights into exploring the interactions and dynamics between land and atmosphere components. A comprehensive understanding of the variations, trends and attributions of ecology, hydrology and atmosphere in response to climate change and anthropogenic activities is encouraged. We invite the original research articles regarding any aspect of the response of land-atmosphere at middle and high latitudes. Topics include, but are not limited to, ecological, hydrological and atmospheric dynamics. We are interested in studies using field observational and reanalysis data to delineate spatial and temporal patterns of land-atmosphere responses. Research using advanced technology such as earth observations, numerical modeling and machine learning are particularly encouraged.

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### Guest Editors

Dr. Xueke Li

Dr. Shudong Wang

Dr. Kai Liu

Prof. Dr. Taixia Wu

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### Deadline for manuscript submissions

closed (25 April 2022)



## 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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