

Special Issue

Land-Atmosphere Interactions under Climate Change

Message from the Guest Editors

Land-atmosphere interactions involve complex surface processes that exchange energy and matter between surface and the atmosphere, and have a significant contribution to weather forecasting and climate predictivity. Evapotranspiration is the key to the connection between surface and the atmosphere. Challenges still exist in understanding spatial and temporal variations in land-atmosphere interactions due to limited observations in evapotranspiration. We invite the submission of original research articles and reviews on any aspect of land-atmosphere interactions, including (but not limited to) soil moisture-atmosphere interactions, vegetation-atmosphere interactions, and so on, and their variations across space and time. We encourage studies using the most recent technology such as remote sensing datasets to address such issues. Numerical studies that focus on the specific role of land surface features (soil, vegetation, and snow cover) in the climate system are especially welcome. We are also interested in studies using observational and reanalysis data to address spatial and temporal changes in land-atmosphere interactions.

Guest Editors

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Deadline for manuscript submissions

closed (21 January 2022)



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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!

Editor-in-Chief

Dr. Daniele Contini

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