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Land-Atmosphere Interactions under Climate Change

Guest Editors:

Dr. Lei Meng
Department of Geography, Western Michigan University, Kalamazoo, MI 49008, USA

Dr. Yaqian He
Department of Geography, University of Central Arkansas, Conway, AR 72035, USA

Deadline for manuscript submissions:
closed (21 January 2022)

Message from the Guest Editors

Dear Colleagues,

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.

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Editor-in-Chief

Prof. Dr. Ilias Kavouras
Environmental, Occupational, and Geospatial Health Sciences, CUNY School of Public Health, New York, NY 10027, USA

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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Journal Rank: CiteScore - Q2 (*Environmental Science (miscellaneous)*)

Contact Us

Atmosphere Editorial Office
MDPI, St. Alban-Anlage 66
4052 Basel, Switzerland

Tel: +41 61 683 77 34
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atmosphere@mdpi.com
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