

Special Issue

Land Surface and its Interaction with the Atmosphere

Message from the Guest Editor

Continental surfaces, including vegetation cover, represent an important component of the Earth's climate system. Atmospheric regional and global models for numerical weather prediction or climate simulations therefore require a realistic description of the land surface processes. The degree of complexity needed for these land surface schemes is not yet completely determined. This Special Issue aims at providing an update on the general topics of land surface processes and land surface–atmosphere interactions, both in atmospheric modeling of weather and climate and in experimental studies, e.g., in field experiments or satellite remote sensing. Manuscripts on all aspects of these topics are welcome, including, e.g., studies on the processes determining surface conditions such as temperature and humidity and their interactions with the atmosphere, in natural environments but also under anthropogenic effects such as land use change.

Guest Editor

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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

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