Special Issue

Land-Atmosphere Interactions: Research and Development to Advance the Modeling of Hydrometeorological Processes

Message from the Guest Editors

The focus of this Special Issue is to advance our understanding of the interactions between land and atmosphere, to better integrate them in weather and climate models, and to enhance the performance of the simulation of hydrometeorological processes. The complexity of these interactions and the observations of their components have been the challenge to overcome in order to integrate land-atmosphere interactions when modeling weather and climate. The sensing of land and near-surface parameters has relied on in situ observations, as well as ground-based and space-borne sensors. This Special Issue invites authors interested in studying land–atmosphere interactions to submit their research results. The submitted manuscripts could include local, regional, or global analysis of land–atmosphere interactions using various models and observational platforms. Submissions that include case studies, field campaigns, and/or the use of sensors to characterize land–atmosphere interactions are also welcome. Thorough and comprehensive review manuscripts are also welcome.

Guest Editors

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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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