Special Issue

New Insights into Land–Atmosphere Interactions in Climate Dynamics

Message from the Guest Editors

Challenges still exist in understanding the spatial and temporal variations in land–atmosphere interactions due to limited observations in heat fluxes. Land surface conditions, including soil moisture, precipitation, temperature, land use, land cover, and snow cover, could considerably affect atmospheric processes in many parts of the globe. Both surface temperature and precipitation variations may be strongly influenced by the land–atmosphere interaction strength at various temporospatial scales. In this regard, we invite the submission of original research articles and reviews on any aspect of land–atmosphere interactions in climate dynamics. The Special Issue aims to improve our understanding of the processes, interactions, feedback, coupling, and teleconnections at the land–atmosphere interface from the perspectives of reanalysis, observation, simulation, and future projection. We especially encourage studies using the most recent technology, such as reanalysis and state-of-the-art CMIP6 GCMs, to address such issues.

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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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