Special Issue

Land-Atmosphere Interactions

Message from the Guest Editors

Land-atmosphere interactions involve complex surface processes that exchange energy and matter between surfaces and the atmosphere, and they significantly contribute to weather forecasting and climate predictivity. Evapotranspiration is the key to the connection between surfaces and the atmosphere. Challenges still exist in understanding spatial and temporal variations in land-atmosphere interactions due to limited observations in evapotranspiration. Land surface conditions, including soil moisture, vegetation cover, and snow cover, could significantly affect atmospheric processes at local, regional, and global scales. Both temperature and precipitation variations are strongly influenced by the strength of landatmosphere interactions. 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, vegetationatmosphere interactions, and so on, as well as their variations across space and time.

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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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