



The Role of Vegetation in Land-Climate Interaction

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Message from the Guest Editors

Vegetation plays a key role in land-climate interaction and thus becomes an important regulator of global climate change. On the one hand, climate largely determines the world's vegetation distribution, and thus vegetation cover and phenology are responding rapidly to global climate change. On the other hand, the vegetation change feeds back to the climate via changing land-atmosphere exchanges of water, energy, carbon and momentum. Understanding the role of vegetation in this two-way interaction will help improve understanding, adaption and mitigation strategies for global climate change.

We invite you to consider submitting your research for publication in this special issue on “the Role of Vegetation in Land-Climate Interaction”. This Special Issue focuses on vegetation response, multiple biophysical and biogeochemical feedbacks of vegetation changes across different spatial and temporal scales. The relevant processes include but not limited to evapotranspiration, albedo, fire, carbon cycle, and emissions of biogenic volatile organic compounds.





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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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