



Land-Atmosphere Interactions: Biogeophysical and Biogeochemical Feedbacks

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closed (31 December 2019)

Message from the Guest Editors

Changes in the physical and chemical properties of terrestrial ecosystems influence the climate system through the biogeophysical and biogeochemical feedbacks in land-atmosphere interactions. Land-atmosphere interactions involve exchanges of water, energy, carbon and other chemical components including nitrogen and methane. This special issue in *Atmosphere* aims at improving our understanding of the physical and chemical processes in the land and atmosphere systems at a variety of spatial scales of meso-, synoptic-, and even planetary-scales. Papers are invited that focus on the effects of terrestrial ecosystems on local, regional, and global budgets of water, energy, and atmospheric properties using observational and modeling analysis. We are particularly interested in (but not limited to) the impacts of the human-induced land use and land cover changes, due to expansion and intensification of deforestation, afforestation and agricultural practices, on the atmosphere through the exchanges in water, energy, and chemical components.





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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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