

Special Issue

Understanding Land-Atmosphere Interactions: Knowledge from Monitoring to Modelling

Message from the Guest Editors

Land-atmosphere interactions are complex physical processes subject to classical thermodynamics, local-to-regional specifications, as well as human activity. Among many research opportunities, one imperative issue is to assess how land use/cover changes (LUCC) may influence climate variability owing to massive alteration of landscapes (e.g., rapid urbanization and deforestation) that have been occurring in many regions of the world. This Special Issue invites diverse contributions related to better understanding of land-atmosphere interactions. Studies of this kind should be rooted in diagnostics of observed data linking climate variations with signs of LUCC. We are particularly interested in receiving contributions from peers using statistical and numerical methods to assess how LUCC can exert influence over regional climates and how land-atmosphere interactions can trigger extreme weather and climate events. Contributions of crossing scales and disciplines are also welcome; for instance, investigating teleconnections between LUCC and large-scale circulations and coupling climate, land surface, with land use models for specific purposes.

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Deadline for manuscript submissions

closed (30 April 2019)



Environments

an Open Access Journal
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Impact Factor 3.7
CiteScore 5.7



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About the Journal

Message from the Editor-in-Chief

Environmental issues are quickly becoming central political, economic and academic topics of the twenty-first century. A large number of modern challenges are directly or indirectly caused by complex interactions between environmental issues. Such issues require interdisciplinary research, knowledge and insights to understand and, ultimately, for solutions to be found. Through the journal *Environments*, we strive to create a platform for meaningful discourse by accepting contributions from a wide range of fields. We sincerely hope you will consider publishing your distinguished work in this highly-accessible, peer-reviewed journal.

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