



Land Surface Processes: Modeling and Observation

Guest Editor:

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Deadline for manuscript
submissions:

closed (9 December 2024)

Message from the Guest Editor

We are happy to invite you to submit your work to this Special Issue of *Atmosphere*, titled “Land Surface Processes: Modeling and Observation”. The objective of this Special Issue of *Atmosphere* is to publish original research manuscripts which focus on the application of mathematical and physical methods and artificial intelligence (AI) technology in the modeling and measurement of land surface processes on various scales. We aim to publish papers that relate to (1) novel/improved methods and/or retrieval algorithms of satellite remote sensing to estimate turbulent fluxes from a single, regional point to a global scale; (2) the parameterization of land–air interactions in weather forecasting and regional/global climate prediction; (3) AI technology applications in measurements and modeling of land process; and (4) land surface processes under typical weather environments, namely typhoon, tornado, rainstorm, freezing rain and snow, and wildfire, to benefit the community, open to everybody in need of them. We sincerely encourage submissions from researchers based all around the world, especially the new generation of scientists.





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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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