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New Insights in Surface Process under Climate Change

Guest Editors:

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Deadline for manuscript submissions:
closed (3 June 2024)

Message from the Guest Editors

Dear Colleagues,

Numerous Earth surface processes are remarkably changed under climate change. Great efforts are made to promote the understanding of the past, present and future surface environment. Comprehensive investigations are carried out to illustrate the spatial and temporal evolution pattern of surface components on the basis of objective evaluations. Increasingly available Earth observation datasets provide unprecedented opportunities for coping with climate change and achieving sustainable development.

This Special Issue aims to seek insights related to Earth surface process from an innovative perspective. Any advances or applications of the use of Earth observation datasets to address environmental issues are encouraged. Topics may include (but are not limited to) the following:

- Advanced algorithms in Earth surface data simulation;
- Multi-perspective evaluations of Earth surface variables;
- Spatial and temporal evolution pattern of key surface components under the background of climate change;
- Numerous inter-reactions elements within Earth surface circulation systems.

We look forward to receiving your contributions.

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Editor-in-Chief

Prof. Dr. Ilias Kavouras
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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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