Advancement of Remote Sensing in Regional Climate Modeling: Observations, Mechanisms, and Projections

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Deadline for manuscript submissions:
closed (10 November 2023)

Message from the Guest Editors

1. Detection and attribution of historical, current and future regional climate changes using remote sensing or combined with regional climate models.
2. Modeling and performance evaluation of regional climate and hydrological models based on remote sensing or site observation.
3. Application of remote sensing and regional climate models in solving water–energy–food–eco-environment problems, including the impacts of climate change on the hydrological cycle, clean energy, crop yield, eco-environment, etc.
4. Remote sensing and regional climate model applications in hydroclimatology, including assessing and predicting the impact of climate change on extreme hydroclimatic events such as flood, drought, and heavy precipitation.
5. Application of remote sensing and regional climate models to precipitation, evapotranspiration, soil moisture, groundwater and soil erosion.
6. Assessment of the impacts of human activities such as agricultural irrigation, water and soil conservation, inter-basin water diversion projects and afforestation on regional climate, water cycle and ecological environment using remote sensing and regional climate models.

Special Issue

Editor-in-Chief

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Message from the Editor-in-Chief

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