



State-of-Art in Regional Climate Models

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Message from the Guest Editors

This Special Issue intends to collect the ongoing studies involving the development and application of regional climate models supporting the analysis of climate change at the local level, and development of impact, adaptation and risk studies at different scales. This issue aims to collect the enormous advances made in the context of regional climate models in recent years. Their increasing use in multiple fields of applications is forcing the scientific community working with regional climate models to improve their performance more and more, for example through the implementation of increasingly complex and realistic physical parameterizations and numerical schemes or techniques, such as two-way nesting, and many others. Studies are being developed for the realization of coupling of atmospheric models with soil and hydrology models and/or oceanic models, in order to develop detailed and realistic representation of the entire Earth system. Moreover, very high resolutions allows improvements also in representation of some large-scale features due to an adequate representation of small-scale processes.





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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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