

## Special Issue

# Advances in Regional Climate Modelling

### Message from the Guest Editors

Regional climate modeling, since its beginning in the late 1980s, has evolved in terms of model complexity, horizontal resolution, physical parameterization, etc. Regional climate models (RCMs) have been used in a wide range of applications, including an understanding of physical processes, seasonal climate predictions, and climate change simulations. Recently, through the use of non-hydrostatic configurations, convective permitting simulations have also been carried out, allowing improvements in the investigation of various mesoscale systems. The aim of this Special Issue is to publish articles focused on these recent advances in regional climate modeling. The keywords below indicate the wide spectrum of topics that can be addressed in this issue.

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### Guest Editors

Prof. Dr. Michelle Simões Reboita

Dr. Moetasim Ashfaq

Dr. Eun-Soon Im

Dr. Fernanda Cerqueira Vasconcellos

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### Deadline for manuscript submissions

closed (5 July 2023)



## Atmosphere

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## About the Journal

### 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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### Editor-in-Chief

Dr. Daniele Contini

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