





an Open Access Journal by MDPI

# **High-Resolution Regional Climate Modelling/Dynamical Downscaling**

Guest Editors:

### Dr. Srivatsan V. Raghavan

Tropical Marine Science Institute, National University of Singapore, 18 Kent Ridge Road, Block S2S, Singapore 119227, Singapore

## Dr. Ngoc Son Nguyen

Tropical Marine Science Institute, National University of Singapore, Singapore 119227, Singapore

Deadline for manuscript submissions:

closed (16 June 2022)

# **Message from the Guest Editors**

In the recent years, high-resolution regional climate simulations have matured to resolutions of about 5–10 km. The need for higher resolutions also depends on the region, physical terrain, and climate influences.

Given challenges in HPC computations of long-term integrations, newer models and the increasing resolutions of global-scale models, this Special Issue invites papers that answer the following questions:

How can dynamical downscaling be improved in the years to come?

What is the future of dynamical downscaling, and do we need more models in the research community?

How effective are CPM-scale simulations at urban and subregional scales?

What is the 'added value' in multi-RCM simulations?

Papers are generally invited on any aspect of dynamical downscaling that discuss high-resolution (10 km and above) simulations on urban or regional scales. The topics model evaluations. sensitivities. he on parameterizations and their behavior at different resolutions. climate projections and their or quantifications. Multi-RCM comparisons, GCM forcing biases, and examinations on observational uncertainties against model simulations are also welcome.











an Open Access Journal by MDPI

# **Editor-in-Chief**

#### Prof. Dr. Ilias Kavouras

Environmental, Occupational, and Geospatial Health Sciences, CUNY School of Public Health, New York, NY 10027, USA

# **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!

### **Author Benefits**

**Open Access:** free for readers, with article processing charges (APC) paid by authors or their institutions.

**High Visibility:** indexed within Scopus, SCIE (Web of Science), Ei Compendex, GEOBASE, GeoRef, Inspec, CAPlus / SciFinder, Astrophysics Data System, and other databases.

Journal Rank: CiteScore - Q2 (Environmental Science (miscellaneous))

#### **Contact Us**