

Special Issue

High-Resolution Regional Climate Modeling

Message from the Guest Editor

Climate change is currently the focus of public attention. Therefore, accurate projections are essential for decision-makers to take action by costly mitigation and adaptation measures. The current computation power enables us to start projecting the future with convective resolving regional climate models (RCMs). These models may enhance the climate projection accuracy in areas with mesoscale features such as complex terrain and sea breeze. Furthermore, precipitation projections that currently suffer from coarse-scale parametrizations may resolve better convection regimes and give decision-makers a better projection of future precipitation patterns. Manuscripts solicited in this Special Issue are in research areas including, but not limited to, the following topics:

- Convective permitting climate projections;
- Quantify the added value of high-resolution RCMs compared to CMIP data;
- Projection of changes in extreme events frequency and intensity;
- Natural variability compared to RCMs projections;
- Variability in RCMs past climate and projected climate;
- Statistical downscaling of high-resolution RCMs.

Guest Editor

Dr. Yoav Levi

Israel Meteorological Service, P.O. Box 25, Bet-Dagan, Tel Aviv
5025001, Israel

Deadline for manuscript submissions

closed (31 July 2022)



Atmosphere

an Open Access Journal
by MDPI

Impact Factor 2.3
CiteScore 4.9



mdpi.com/si/107558

Atmosphere
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
atmosphere@mdpi.com

[mdpi.com/journal/
atmosphere](https://mdpi.com/journal/atmosphere)





Atmosphere

an Open Access Journal
by MDPI

Impact Factor 2.3
CiteScore 4.9



[mdpi.com/journal/
atmosphere](https://mdpi.com/journal/atmosphere)



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!

Editor-in-Chief

Dr. Daniele Contini

Institute of Atmospheric Sciences and Climate (ISAC), National Research Council (CNR), Str. Prv. Lecce-Monteroni km 1.2, 73100 Lecce, Italy

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))