atmosphere

an Open Access Journal by MDPI

IMPACT FACTOR 2.3

CITESCORE 4.9

Evaluation and Optimization of Atmospheric Numerical Models

Guest Editors:

Dr. Ioannis Pytharoulis
Department of Meteorology and Climatology, School of Geology, Aristotle University of Thessaloniki (AUTh), 54124 Thessaloniki, Greece

Dr. Petros Katsafados
Department of Geography, Harokopio University of Athens, 16122 Athens, Greece

Deadline for manuscript submissions:
closed (30 June 2021)

Message from the Guest Editors

The aim of this Special Issue is to comprise review and original theoretical and modelling studies on the evaluation and optimization of atmospheric numerical models.

Topics of interest include, but are not limited to, the following:

- Development and evaluation of numerical techniques, diagnosis of data assimilation methods and physical parameterizations
- Sensitivity experiments
- Two-way coupling of atmospheric numerical models with hydrological, ocean, wave, dust and fire ones, aiming to improve the representation of the atmospheric processes
- Atmospheric model evaluation - verification of model components and operational NWP products against in-situ measurements, remote sensing estimations, regional and global re-analysis of past observations

atmosphere

an Open Access Journal by MDPI

IMPACT FACTOR 2.3

CITESCORE 4.9

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

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

Atmosphere Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/atmosphere
atmosphere@mdpi.com
𝕏@Atmosphere_MDPI