



Evaluation and Optimization of Atmospheric Numerical Models

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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





an Open Access Journal by MDPI

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

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