

Special Issue

Modeling of Ocean Waves: New Advances in Model Evaluation and Optimization

Message from the Guest Editors

The aim of this Special Issue is to provide the wave modeling/oceanography community with the most recent progresses in this field based on novel research works from different parts of the world. Some specific topics of interest for this Special Issue include but are not limited to:

- Evaluation of the source terms in spectral wave models. Papers focusing on assessing the most recent physics package ST6 are of special interest.
- Assessing wind-field accuracy (CFSR, ERA5, NAR, etc.) in wave modeling in specific geographical regions.
- Application of data assimilation (DA) techniques to improve the accuracy of wave simulation.
- Application of machine learning/deep learning/artificial intelligence (ML/DL/AI) in wave hindcasting and forecasting based on spectral model outputs.
- One-way or two-way wave-current interaction, especially for tropical storms and hurricane modeling.
- Wave energy characterization.



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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)

Guest Editors

Dr. Mohammad Nabi Allahdadi

Dr. Felix Jose

Dr. Saeed Shaeri

Deadline for manuscript submissions

closed (10 May 2023)





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

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