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Waves and Wave Climate Analysis and Modeling

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Deadline for manuscript submissions:
closed (31 January 2020)

Message from the Guest Editors

Dear Colleagues,

The aim of this Special Issue is to provide recent advances in the field of wind waves modeling and wave climate. This topic encompasses various probabilistic and statistical aspects and multivariate methods, including extreme value analysis methods and models, directional wave statistics, multivariate probability distributions, etc. Wave models are used for operational forecasting purposes, wave climate synthesis and analysis, wave climate change studies, coastal impact assessments, etc. The topic is also highly relevant to different engineering applications, such as wave interaction with coastal and offshore structures and design of coastal works.

Topics of interest for the Special Issue include but are not limited to:

- Probabilistic methods for wave climate analysis
- Wind-wave modeling
- Directional wave climate analysis
- Synergy of wind wave model with satellite and in situ observations
- Extreme waves
- Applications

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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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