



climate



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Wave Climate

Guest Editors:

Dr. Alvaro Semedo

IHE Delft Institute for Water
Education, Delft, The
Netherlands

Dr. Bahareh Kamranzad

Department of Civil and
Environmental Engineering,
University of Strathclyde,
Glasgow G1 1XJ, UK

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Message from the Guest Editors

This issue aims to gather recent advances in the field of wave climate: in the monitoring of the present wave climate and in how climate change can impact the future wave climate.

Wind waves are a key element of the climate system, modulating the exchanges of momentum, heat, and mass across the air–sea interface. They also play a striking role in coastal and offshore engineering and environmental issues, e.g., in determining the rates of coastal erosion and along coast sediment budgets. In the open ocean, waves frequently represent a major hazard to any offshore operation or structure, or to shipping activity, despite being able to be utilized as a source of renewable energy. Changes in wave climate are therefore of central importance for almost all aspects of coastal and offshore activities. A greater understanding of the wind wave climate, at present and in the future, is therefore of greater importance for a sustainable development. Studies of interest to this issue shall include but are not limited to: regional and global wave climate studies (present and future), extreme wave analysis, wave energy, and wind modelling (reanalyses and hindcasts) studies.



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Special Issue