



climate

an Open Access Journal by MDPI



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

Deadline for manuscript
submissions:

closed (28 February 2022)

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.



mdpi.com/si/51650

Special Issue