Special Issue

Effect of Climate Change on Coastal Hydrodynamics

Message from the Guest Editors

Dear colleagues, Climate change generates impacts on the environment, particularly in vulnerable systems like coasts, which are exposed to sea level rise (SLR). Moreover, potential changes in wind and atmospheric pressure patterns will modify hydrodynamic processes like storm surge and wave climate, which are fundamental driving terms on the coast. Since seaports are located on the coast, they are also susceptible to being affected by SLR and wave storms. In addition, lowlying beaches will accommodate these new forcing conditions. SLR will induce more frequent coastal flooding, and it will increase the water depth around and inside harbours, modifying wave propagation patterns that can, in turn, produce other impacts on beaches and ports, affecting processes such as sediment transport, wave agitation (oscillations due to wind waves within the port), and coastal structure stability. [...] For further reading, please follow the link to the Special Issue Website at:
https://www.mdpi.com/journal/water/special_issues/Climate_Change_Coastal_Hydrodynamics

Guest Editors

Prof. Dr. Joan Pau Sierra

Laboratori d'Enginyeria Marítima, Universitat Politècnica de Catalunya - BARCELONATECH, Barcelona, Spain

Assoc. Prof. Dr. Vicente Gracia

Laboratori d'Enginyeria Marítima, Universitat Politècnica de Catalunya– BARCELONATECH, Barcelona, Spain

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Water
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
water@mdpi.com

mdpi.com/journal/water

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In the context of global changes, the sustainable management of water cycles, going from global and regional water cycles to urban, industrial and agricultural water cycles, plays a very important role on the water resources and on their relationships with food, energy, biodiversity, ecosystem functioning and human health. *Water* invites authors to provide innovative original full articles, critical reviews and timely short communications and to propose special issues devoted to new technological and scientific domains and to interdisciplinary approaches of the water cycles. We ensure a critical review process and a quick turnaround between submission and final decision.

Editor-in-Chief

Dr. Jean-Luc PROBST
Centre de Recherche sur la Biodiversité l'Environnement (CRBE) UMR CNRS/UPS/INPT/IRD, Centre National de la Recherche Scientifique (CNRS), University of Toulouse, Campus ENSAT, Auzeville Tolosane, Toulouse, France

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