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Effect of Climate Change on Coastal Hydrodynamics

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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. [...]

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Special Issue



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