

Special Issue

Research on Coastal Morphodynamics and Sea Level Change

Message from the Guest Editor

The consequences of global warming already affect hydrodynamics and morphodynamics in our coastal zones. Sea level rise, for instance, changes tides and storm surges, which in turn shape the morphology of coasts, estuaries, and river deltas. To disentangle natural variability and anthropogenically driven long-term trends, a sound understanding of present-day hydrodynamic and morphodynamic processes is necessary. This knowledge is a prerequisite to develop feasible adaptation measures to cope with the adverse effects of climate change. The Special Issue will focus on the interaction between past and future sea level rise with coastal hydro- and morphodynamics. The overall aim of this Special Issue is to provide an overview of changes in the coastal morphodynamics for different types of coastal zone (e.g. deltas, tidal flats or beaches) in response to sea level change. Therefore, representative case studies as well as more general process descriptions for different coastal regimes are encouraged.

Guest Editor

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Message from the Editor-in-Chief

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

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