Special Issue

Sedimentary Evolution of Estuaries and Coastal Plains: Subsidence, Sediment Loss and Aquifer Hazards

Message from the Guest Editors

Estuaries and the related coastal plains are delicate sedimentary settings which evolve under the effect of different hydrodynamic ranges and sediment load from rivers, in turn controlled by relative sea level rise. The regime of accelerating sea-level rise forecasted by the IPCC (2013) suggests that many coastal plains and related marshes and/or tidal flats may soon cross a threshold and become threatened by geological hazards such as aquifer salinization, inundation of low lands, coastal erosion, and increased vulnerability to flooding and storm surges. On the other hand, subsidence rates, which reflect regional and local tectonic effects, can be greatly enhanced by consolidation of the Holocene sedimentary strata due to creep, thus resulting in an additional vertical movement at ground surface. Moreover, many coastal areas are also suffering from a sediment loss of billions m3/a due to anthropic extraction from river basins. [...] For further reading, please follow the link to the Special Issue Website at:
https://www.mdpi.com/journal/water/special_issues/coastal_sedimentary_geomorphology

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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

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