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

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Deadline for manuscript submissions:
closed (31 October 2021)

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 m^3/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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Message from the Editor-in-Chief

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Journal Rank: JCR - Q2 (*Water Resources*) / CiteScore - Q1 (*Water Science and Technology*)

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