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The Dynamics of Sedimentary Processes in Coastal Areas

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Message from the Guest Editor

Coastal areas are highly sensitive geological zones whose modification is a function of several geological processes. In this Special Issue, we acknowledge papers discussing the dynamics of sedimentary processes in coastal areas and adjacent offshore, focusing on both low sandy coasts and high coastal cliffs using different techniques and methods, including geological survey, sedimentology and seismic stratigraphy. Continental platform studies are also suitable. GIS and LIDAR studies are also mentioned to study the continuous modification of the shorelines. The regional controls on the sedimentary processes in the coastal areas are long-term geological processes, with a strong influence on controlling the short-term dynamics. As sea levels rise or fall, the geomorphology of coastal areas will further evolve, varying the boundary conditions of other coastal processes: circulation, waves, tides and the storage of sediment on flood plains. Other important control factors are climate, controlling coastal destabilization and beach erosion, the global flux of sediments, and human development, particularly during the Holocene and the Anthropocene.

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Message from the Editor-in-Chief

Understanding the Earth's origin and its bio-geological evolution, the multiple implications of the geosciences (as a coherentset of interconnected disciplines), and the sociocultural and ethical interdisciplinary approaches, will be crucial for a better understanding of Nature, and also for undertaking scientifically based political decisions.

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