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Marine Geologic Features and Processes in Siliciclastic, Carbonate, and Mixed Siliciclastic-Carbonate Systems

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Message from the Guest Editor

Fluctuations in the relative sea level control the rate of the sediment supply, primary mineralogical composition, pore water chemistry, sediment budget and architecture of depositional systems. Sandstones consist of detrital grains such as quartz, feldspars and rock fragments.

Hydraulic and fluid flow regimes produce sets of sedimentary structures, facies and facies associations. Studying facies and facies associations in siliciclastic rocks can be achieved by describing logs, seismic sections, outcrops and cores. In carbonate rocks, it is not uncommon that seismic and logs are not of significant help, the task of deciphering depositional environments requires a detailed petrographic assessment of facies and rock strata. Shelf settings consist of depositional environments, which produce the largest volume of modern carbonates and contain a significant volume of ancient carbonate sediments dominating the geologic record.

In this Special Issue, we seek contributions on depositional environments to unravel the complexity of the interpretations of the depositional processes. Contributions on shallow burial post-depositional processes (diagenetic alterations) are also welcome.

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Message from the Editor-in-Chief

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