Special Issue

Fluvial Archives: Drainage Hydrology, Sedimentological and Geomorphological Processes and Environmental Change

Message from the Guest Editors

Rivers in different settings are key components of landscapes and sediment systems, from uplands to offshore settings. The ubiquity of fluvial sedimentary records and the morphological expression of both sedimentary and erosional landforms provide important clues for exploring drainage hydrology, landscape evolution, and climatic–tectonic control over longer periods. In mountainous and lowland areas, fluvial archives are configured into staircase sequences and/or basin-filling sequences. They record tectonic and a tectonic uplift, climate-linked denudation and deposition and base-level related drainage-network changes. Climate-related river-terrace sedimentation provides insight into environmental changes, sediment supply sourcing and routing, and paleo-flood discharge. In lowland areas, distributive fluvial systems develop thick sediment sequences, providing high resolution records of sedimentological and geomorphological processes. This special issue will disseminate ongoing and recently developed fluvial research from palaeo to modern. This will include field investigations and modeling fluvial hydrology, sedimentology, geomorphology, neotectonics and paleohydrology.

Guest Editors

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Prof. Dr. Jef Vandenberghe

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Deadline for manuscript submissions

closed (29 February 2024)

Quaternary

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Impact Factor 2.1
CiteScore 4.1

mdpi.com/si/152487

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About the Journal

Message from the Editor-in-Chief

We live in a Quaternary world, that is, a world shaped by the interplay of the different compartments of the earth system—lithosphere, hydrosphere, atmosphere, biosphere, cryosphere—during the last ~2.6 million years. It is not possible to understand the current world—and, hence, to anticipate its possible future developments—without knowing the Quaternary history of drivers, processes, and mechanisms that have generated it. Our own species is an evolutionary outcome of the Quaternary performance. Therefore, the journal *Quaternary* is born with the aim of being an integrative journal to encompass all aspects of Quaternary science focused on understanding the complex world in which we live and to provide a sound scientific basis to anticipate possible future trends and inform environmental policies.

Editor-in-Chief

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