Special Issue

Event Deposition and Its Geological and Climatic Implications

Message from the Guest Editors

The Quaternary period is characterized by frequent and high-intensity geological and climatic events that have left distinct imprints in stratigraphic records worldwide. These event deposits—including those associated with volcanic eruptions, paleoearthquakes, paleofloods, paleolandslides, and severe droughts—serve as critical archives for reconstructing past environmental conditions and dynamics. Understanding the sedimentary features and formation mechanisms of these event layers is essential for deciphering the complex interactions among Earth's surface processes, climatic forcing, and tectonic activity. This Special Issue of *Quaternary,* "Event Deposition and Its Geological and Climatic Implications", aims to compile cutting-edge research that uses event deposits as key proxies to investigate their origins and subsequent climatic and environmental impacts during the Quaternary. We welcome submissions including, but not limited to, record-based studies, methodological advances, and comprehensive reviews that enhance our understanding of Earth's historical extreme events.

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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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