

Special Issue

The Climate and Environment of Marine Isotope Stage 3 (MIS 3), 60,000–27,000 Years before Present

Message from the Guest Editors

The MIS3 period was first in the 1900s in the glaciers of Greenland. Warming transitions from a cold stadial environment to a warm interstadial one had occurred, according to the annual resolution ice core chronology, within several decades. Ocean records from the North Atlantic revealed that the driving force of the different climate modes was closely related with the stability of the continental ice sheets and the Meridional Overturning Circulation of the North Atlantic. The interaction between these two globally important mechanisms is still under investigation, in particular regarding the so-called Heinrich Events in the North Atlantic. This Special Issue of *Quaternary* will present a comprehensive overview of different ice, marine and terrestrial archives. The issue will start with several research papers focusing on the central European climate, volcanism and environment reconstructed from the Eifel Maar lakes. The following papers will present comparable records from other parts of the global climate system. Climate Modeling studies will focus on the current state of knowledge of these dramatic millennia and their impact on the environment and humans.

Guest Editors

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About the Journal

Message from the Editorial Board

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.

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