

Special Issue

Mesozoic–Palaeogene Hyperthermal Events

Message from the Guest Editors

This Special Issue, launched in conjunction with the International Workshop on Mesozoic–Palaeogene Hyperthermal Events, seeks to unite leading research on these critical intervals in Earth’s past. We welcome contributions that examine stratigraphic and sedimentological records, geochemical and isotopic proxies, paleoclimate reconstructions, and the biotic responses to hyperthermal-driven environmental transformations. Studies employing Earth system modeling and deep-time data assimilation are also encouraged in order to uncover broader climate feedback mechanisms. Key topics for submission include, but are not limited to, the following:

- **Long-term climatic and environmental shifts in a greenhouse world;**
- **Climate and environmental changes during hyperthermal events;**
- **Biotic and carbonate platform responses to hyperthermal events;**
- **Carbon cycling and triggers for hyperthermal events.**

By studying past hyperthermals, we can gain invaluable insights into Earth’s climate system—its resilience, vulnerabilities, and the thresholds that define planetary change. We invite original research articles, reviews, and case studies that contribute to this evolving and urgent field of study.

Guest Editors

Prof. Dr. Xiumian Hu
Prof. Dr. David B. Kemp
Dr. Yiwei Xu

Deadline for manuscript submissions

closed (31 December 2025)



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About the Journal

Message from the Editor-in-Chief

Understanding the Earth's origin and its bio-geological evolution, the multiple implications of the geosciences (as a coherent set 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.

We are committed to drive *Geosciences* to a position in which it is recognized for its high-quality, cutting-edge research and scientific influence, and strongly encourage and invite your participation and manuscripts.

Editor-in-Chief

Prof. Dr. Alberto G. Fairén

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