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Paleoclimate and Its Connection with Future Climate Change

Guest Editors:

Dr. Oliver Elison Timm

Prof. Dr. Chuixiang Yi

Prof. Dr. Daoyi Gong

Dr. Sri Yudawati Cahyarini

Deadline for manuscript submissions:
closed (31 October 2020)

Message from the Guest Editors

Dear Colleagues,

In this Special Issue, we invite the scientific community to highlight their progress and advances made in connecting paleoclimate research with the fundamental scientific questions concerning future climate change, such as: How can paleoclimate help to reduce uncertainty in climate sensitivity estimates? What scaling laws are valid to explore natural climate variability on interannual to millennial time scales? What can we learn from past climate reconstructions about changes in the natural modes of variability in response to external forcing? Can we predict future abrupt climate change based on paleoclimatic event histories? We call for contributions to this Special Issue that highlight advances in proxy system modeling, reconstructions of past climates, data assimilation of proxy records, or machine-learning-based paleoclimate analysis methods, as well as detection and attribution methods or dynamical system analyses in the context of paleoclimate applications.

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Editor-in-Chief

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Message from the Editor-in-Chief

Continued developments in instrumentation and modeling have driven atmospheric science to become increasingly more complex with a deeper understanding of concepts, mechanisms, and interactions. This is the field that innovation built and it has led to a better appreciation for the complexity with atmosphere. Human life is intertwined in this complexity as we strive to better understand our atmosphere. Climate change is constantly stretching the limits of our thinking and forcing new ideas and concepts to be played out. Welcome to the Anthropocene!

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Journal Rank: CiteScore - Q2 (*Environmental Science (miscellaneous)*)

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