Special Issue

The Evolution of Climate and Environment in the Holocene

Message from the Guest Editors

In recent years, with the increasing frequency of extreme climate events, understanding the long-term evolution of the climate and environment has garnered significant attention. Considering this evolution in terms of the Holocene Epoch is particularly crucial, as the occurrence, development, prosperity, and progress of human civilization occurred during this period. Although a large number of studies have tentatively explored the Holocene's climatic and environmental evolution, a clear and integrated view of the causes and mechanisms of millennial-scale climate fluctuations during the Holocene has not yet been achieved. This Special Issue has been set up with the aim of developing our understanding of the evolutionary history of the climate, vegetation, sediments, hydrology, human activities, and other environmental factors, as well as their interactions and driving mechanisms, in the Holocene Epoch, We encourage works covering a long time scale of more than one thousand years. The study materials could include cores from lake, seas, or wetlands, eolian deposits, glacial accumulations, cave stalagmites, and tree rings, among other sources.

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About the Journal

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!

Editor-in-Chief

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