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Research on the Weather and Climate of the Tibetan Plateau and Its Impact

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Deadline for manuscript submissions:
closed (25 September 2024)

Message from the Guest Editors

Dear Colleagues,

In the context of global warming, extreme events are the focus of many academics' attention. The convective systems over the Tibetan Plateau are closely related to extreme weather and extreme climate events in East Asia, which should be deeply studied. The intensity and frequency of extreme precipitation events as well as their macro- and microphysical properties in East Asia are hence worth investigation and very significant for predicting the occurrence of natural disasters in the future. Moreover, moisture may not only play a very important role in generating clouds and precipitation over the Tibetan Plateau but is meaningful for eastward-moving convective systems.

This Special Issue of Atmosphere focuses on the weather and climate of the Tibetan Plateau and its impact. Particularly welcome are studies that focus on convective and climate analysis over the Tibetan Plateau, further examining the role of the Tibetan Plateau. We also invite manuscripts to address how the Tibetan Plateau affects downstream meteorological extremes no matter the history or the future. Studies on the role of moisture around the Tibetan Plateau are also welcome.

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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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