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Climate Dynamics and Variability Over the Tibetan Plateau

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Message from the Guest Editor

The Tibetan Plateau (TP), known as the “Third Pole”, has become the region most sensitive to the global climate. Due to its unique underlying surface, the topography and thermodynamic forcing of the TP play crucial roles in the regional climate and extreme weather events. However, their multi-scale interactions remain unclear. Notably, the TP is undergoing substantial changes, including warming, increased precipitation, Asian monsoon, vortex and a number of other variables due to global warming; these changes may exert profound effects on the weather and climate of the surrounding areas. Therefore, it is essential to investigate the variabilities in the environmental factors and thermodynamic effects of the TP on the regional climate; this represents a great contribution to the research community and society.<false,>This Special Issue welcomes the submission of papers addressing all aspects of Tibetan Plateau meteorology, particularly the effects of air temperature, precipitation and the monsoon dynamic at multi-time scales. Additionally, special attention will be paid to the mechanisms implicated in the weather and climate changes exhibited on the TP.

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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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