Special Issue

Climate Extremes in China

Message from the Guest Editors

Weather and climate extremes can cause meteorological disasters, and have tremendous impacts on societies and economies. Critically evaluating the capability of state-of-the-art dynamic models for near-term and long-term extreme event predictions is important for identifying and addressing challenges in understanding and modeling physical mechanisms of weather and climate extremes. This will in turn facilitate the diagnosis of the causative processes of singular extreme events, and the development of more skillful prediction techniques for near-term extreme events. It will also benefit the long-term projections of extreme events by improving our understanding about how much, how quickly, whether and to what extent the recent changes in the frequency and intensity of weather and climate extremes are associated with climate warming. As such, a synthesis of recent progresses in forecasting China's weather and climate, diagnosing physical processes producing singular extreme events, and attributing the role of long-term climate warming is important for China's resilience and adaptation to climate extremes in a warming world.

Guest Editors

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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!

Editor-in-Chief

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