Special Issue

China Heatwaves

Message from the Guest Editors

Heatwaves are among the most dangerous climate extremes, with devastating effects on human and natural systems. Recent works have pointed out that the Tibetan Plateau snow cover, the Atlantic and Pacific sea surface temperature, and Arctic sea ice showed some connections with China's heatwaves. Furthermore, anthropogenic influences such as city expansion, the urban heat island, and carbon emissions have also been identified as contributing to the increasing heatwaves. Overall, a series of in-depth research studies on heatwaves in China are critical. In this Special Issue, we aim to publish innovative articles that investigate historical simulations and future projections of heatwaves (or extreme heat) in China, assess heat risks, and analyze the possible mechanisms.

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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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