Special Issue

Heat Waves: Perspectives from Observations, Reanalysis and Modeling

Message from the Guest Editors

To better understand heat waves, better datasets and methodologies are needed. Recently, many heat wave studies have resorted to the re-analysis of data and high-resolution numerical models, in addition to observations. It is therefore our intention here to gather the current understanding of various aspects of heat waves from the perspective of observation, reanalysis, and modeling to form a Special Issue.

The topics of the Special Issue can include, but are not limited to, the following:

Heat wave trends derived from different datasets or model results, for the past or in the future;
Heat wave prediction in meteorology or climate models;
Synergistic effects of heat wave with urban heat island, drought, rainfall, air pollution or others;
Heat wave and thermal comfort;
Heat waves' impact on health;
Heat waves' impact on building energy consumption;
Mitigation of heat waves;
Other topics related to heat waves.

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Deadline for manuscript submissions

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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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