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Drought Impacts on Agriculture and Mitigation Measures

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Message from the Guest Editors

Meteorological (i.e., weather and climate) observations indicate that climate warming has increased in recent decades, manifesting in the increasingly frequent occurrence of extreme meteorological events, including heat waves, intensive precipitation and dry spells (droughts). The duration and intensity of extreme meteorological events have also increased in recent decades. A similar trend of changes is predicted for the next decades of the 21st century, simultaneously accompanied by a decrease in the frequency of cold waves, including cold spells.

As a consequence of the above, the impacts of extreme events on the economy also show a rising trend as drought impacts on agriculture are related to great economic losses. The efficient early warning of drought events, irrigation or other possible mitigation measures could mitigate these impacts and economic losses. The articles presented in this Issue will be useful for a broad group of recipients.

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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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