Special Issue

Drought in Arid and Semi-arid Regions

Message from the Guest Editors

Drought is a natural disaster caused by climate variability which leads to significant social, environmental, and economic damages. Drought may occur in any region of the world, but it is more intense and frequent in arid and semi-arid regions due to the large variability of climate in such regions. Arid and semi-arid regions are generally characterized by water scarcity and low per-capita water allocation. Water deficit in such regions is highly variable in time, space, amount, and duration. Ecosystems in semi-arid and arid regions are under water stress and can be particularly vulnerable to even slight drought changes. Droughts may introduce environmental degradation and desertification. The purpose of this Special Issue is to provide an overview of the research advancements, scientific perspectives, existing challenges, and future directions for drought monitoring, management, mechanisms, and impacts in arid and semi-arid regions. Related studies or other experiences are welcome as long as they are rigorously presented and scientifically evaluated.

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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