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Flash Drought Dynamics and Impacts

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Deadline for manuscript submissions:
closed (1 August 2022)

Message from the Guest Editors

Dear Colleagues,

Flash drought is a subseasonal phenomenon that can lead to severe impacts on agriculture and ecosystem dynamics due to a rapid depletion of soil moisture and increased evaporative stress on the environment. Rapid drought intensification can also contribute to cascading impacts that result in increased wildfire risk, heatwave development, depletion of water resources, and decreased food security. Given that flash drought develops on subseasonal to seasonal timescales, understanding the complex drivers of flash drought remains a significant challenge from local to global scales.

This Special Issue invites papers covering all aspects of flash drought, such as regional atmospheric and oceanic drivers of flash drought, methods and techniques to improve the detection, monitoring, and prediction of flash drought, and compound/cascading impacts associated with rapid drought development.

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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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