



Agricultural Drought Monitoring and Impacts Assessment

Guest Editors:

Dr. Marcelo Zeri

National Center for Monitoring and Early Warning of Natural Disasters (Cemaden), São José dos Campos 12247-016, Brazil

Dr. Ana Paula Cunha

National Center for Monitoring and Early Warning of Natural Disasters (Cemaden), São José dos Campos 12247-016, Brazil

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Message from the Guest Editors

Droughts are defined as significant deficits in precipitation that evolve into impacts on vegetation and water resources depending on their strength and duration. Agricultural drought is the result of a water deficiency in the soil and consequent water stress to plants, causing a reduction in crop yields. In general, agriculture is the first sector to be affected by drought since soil moisture is the first component of the hydrological system to be affected. Overall, the impacts of droughts are experienced in many sectors which rely on water resources, especially those related to the food–water–energy nexus. Climate change is expected to alter the current spatial and temporal patterns of drought worldwide. Thus, the constant improvement and validation of monitoring tools is imperative to support policies around the world on climate change mitigation.

The focus of this Special Issue is on monitoring and forecasting agricultural drought and associated impacts using current and projected datasets of climate, monitoring networks, remote sensing products, and innovative tools for data analysis.





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Editor-in-Chief

Dr. Daniele Contini

Institute of Atmospheric Sciences
and Climate (ISAC), National
Research Council (CNR), Str. Prv.
Lecce-Monteroni km 1.2, 73100
Lecce, Italy

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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Contact Us

Atmosphere Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

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