



Agricultural Microclimate and Irrigation Water Management

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closed (3 December 2021)

Message from the Guest Editors

This Special Issue calls for a wide range of original case and review studies focused on the influence of microclimate and agro-meteorology issues on the estimation of water-use efficiency and productivity in the main context of irrigation water management for sustainable agro-system production. The following topics are very welcome:

- Studies evaluating the effects on the applications of sustainable practices in agriculture multi-scale approaches, ranging from farm to watershed level;
- Studies for monitoring/modelling energy and mass fluxes and soil–plant–atmosphere interactions using multi-data source approaches;
- Studies oriented towards improving the knowledge about biophysical processes within the SPA continuum for developing sustainable irrigation strategies;
- Assessment of climate change effects on agricultural biophysical processes, as well as the evaluation of climate change mitigation and adaptation strategies in the agricultural context.
- Development of agro-meteorological forecasts and their application for improving the accuracy of crop water requirement estimations and for knowing about the occurrence of extreme weather events in advance.





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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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