



Remote Sensing for Drought Monitoring and Forecasting

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Deadline for manuscript
submissions:

closed (15 June 2022)

Message from the Guest Editors

The drought is a creeping and complex phenomenon with different types of impacts. Drought dynamic reveals a time gap between the onset phase of an event and the management phase of the consequent emergency. The reliable early identification of drought episodes, along with their evolution scenarios, would significantly increase the ability to deal with and manage periods of agro-ecosystem stress or water scarcity. The nexus among local knowledge elements, scientific data, and the use of indicators related to them could significantly improve the identification of the human societal negative consequences of drought.

The recent development of satellite-based remote sensing techniques and in situ sensors has increased our ability to observe the state of agro-ecosystems on Earth. Thus, by increasing our level of understanding the evolution of drought and by identifying risks and negative impacts earlier, we could now better contribute to improving risk mitigation processes in agro-ecosystems, food production, and food security systems worldwide.





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Journal Rank: JCR - Q1 (*Geosciences, Multidisciplinary*) / CiteScore - Q1 (*General Earth and Planetary Sciences*)

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