Special Issue

Toward Better Understanding and Prediction of Monsoon Onset and Withdrawal for Agricultural Sectors

Message from the Guest Editors

Rainfed agricultural systems over monsoon regions strongly depend on rainfall during the monsoon season, but also on the onset and withdrawal timing. The complexity of monsoon systems and the interannual variability of the onset and withdrawal dates hinder the development of reliable services in terms of operational monsoon timing monitoring and forecasting. Consequently, it is still difficult for farming communities to have information for decision-making. This Special Issue aims to provide advances in the understanding of monsoon systems and their characteristics as well as the improvement of forecasting methodologies in the context of agricultural applications. Some potential topics include, but are not limited to, the following:

- Methods to detect or define monsoon onset/withdrawal dates at multiple scales
- New findings on monsoon characteristics from historical data analysis and implication for agriculture
- Methodologies for forecasting monsoon onset/withdrawal dates
- Agricultural and/or economic impacts of interannual variability in monsoon features
- Adaptation strategies in the agricultural sector to cope with interannual variability of monsoon onset/withdrawal dates

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About the Journal

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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