Special Issue

Improved (Sub)Seasonal Climate Forecast for Impact Modelling

Message from the Guest Editor

Global seasonal climate forecasts (GSCFs) are being widely used to predict weather anomalies at monthly intervals and with lead times of a few months. The physical basis behind predictability at sub-seasonal to seasonal time scales (weeks to months) is given by interactions between the atmosphere and slowly varying boundary conditions of the land-surface, including the ocean surface. Since globally available products are usually too coarse to support decision making on relevant scales, this Special Issue focuses on how to improve sub-seasonal to seasonal climate forecasts for agricultural and hydrological applications on local scales. This Special Issue targets all relevant contributions on the development of regional and local seasonal climate forecasting systems such as local refinement (dynamical and statistical downscaling, as well as bias correction of GSCFs) and seasonal ensemble forecasts, improved forecast verification tools for seasonal forecast, as well as improved dissemination strategies and communication for decision-making. The collection of papers will be of interest for researchers, practitioners, and stakeholders in agriculture and water resources management.

Guest Editor

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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!

Editor-in-Chief

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