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Asian Summer Monsoon Variability, Teleconnections and Projections

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Deadline for manuscript submissions:
closed (31 December 2020)

Message from the Guest Editors

Asian summer monsoon (ASM) variability significantly affects hydroclimate, and thus socioeconomic conditions for nearly half of the world's population residing in the region. The ASM has large variabilities at different timescales, and it involves complex multi-scale interactions within the Earth's atmosphere, ocean, land surface, and cryosphere components of the climate system. A better understanding of ASM physics and dynamics, with more accurate prediction of monsoon systems, is therefore of a great practical importance to the research community and society.

This Special Issue invites papers on all aspects of Asian monsoon, from the variability and predictability of the monsoon systems to extremes and projections. The submission of original and review articles that aim to study monsoon variability, the role of different teleconnections, extremes, predictability on multiple timescales, and projections of future changes in monsoon are particularly welcome. This Special Issue hopes to bring attention to recent developments and challenges ahead for understanding the variability and predicting the monsoon in a changing climate.

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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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