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Asian Monsoons: Observation and Prediction

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Deadline for manuscript submissions:
closed (19 August 2022)

Message from the Guest Editors

Dear Colleagues,

Asian monsoons affect a large portion of the global population and play an important role in modulating weather and climate. Nowadays, observations of Asian monsoons with a high temporal and spatial resolution are available from more reliable remote sensing techniques and data assimilation approaches. Also, short- and long-term predictions of Asian monsoons are essential for agriculture, water management, and disaster mitigation in the Asian nations. It is necessary to have the advanced knowledge and/or prediction system/tools for more reliable monsoon forecasting.

In this Special Issue, we invite original and review articles using both atmospheric and/or oceanic observations from a wide range of sources, including satellites, surface weather stations, and modeling approaches. Space-based measurement of meteorological fields such as rainfall and winds with a combination of high temporal and spatial resolutions are preferred for describing Asian monsoon characteristics. Any innovative prediction tools and observations that improve short- and long-term monsoon forecasting are particularly welcome.

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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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Journal Rank: CiteScore - Q2 (*Environmental Science (miscellaneous)*)

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