Special Issue

Recent Advances in Subseasonal to Seasonal Predictability

Message from the Guest Editors

This issue will focus on recent advances in subseasonal to seasonal (S2S) predictability. This area of research is crucial for improving medium- to long-term forecasts that bridge the gap between weather and climate prediction. We seek original papers that explore innovative methodologies, modeling techniques, and case studies aimed at enhancing our understanding of S2S predictability.

Topics of interest include but are not limited to the role of ocean-atmosphere interactions, teleconnections, and data assimilation. We also encourage papers that showcase the application of artificial intelligence and machine learning in enhancing forecast accuracy and reliability across the S2S time scale. We encourage studies on Impact-based Forecasting (IbF) that explore the application of S2S predictions in decision-making processes across various sectors. Emphasis should be placed on translating forecast data into actionable insights. Additionally, we welcome studies discussing operational challenges and practical applications. Lastly, we invite research from social science perspectives, examining the societal implications of S2S forecasts.

Guest Editors

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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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