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ENSO: Dynamics, Predictability, Modelling and Teleconnection

Guest Editor:

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Message from the Guest Editor

ENSO, one of the most important tropospheric variabilities, affects various parts of the globe differently and is also season-dependent. The formation mechanism mainly involves atmosphere–ocean coupling, and its influence is even present in the upper stratosphere. Since the last few decades of the last century, some deviation on ENSO-related teleconnection has also been noticed, as well as some ENSO characteristics. This Special Issue will focus on various aspects of ENSO, which may include but not be limited to its dynamics, predictability, and teleconnection. Analyses on observation/re-analyses and model results are welcome. Results involving CMIP5 and CMIP6 simulations in historical and future scenarios can also be explored. Among others, the following areas may be addressed: coupling of various modes with ENSO; ENSO-related teleconnection, including ENSO and Indian summer monsoon connection; ENSO Modoki and canonical ENSO; asymmetric features of ENSO phases, etc. Overall, the main aim is to improve our general understanding of ENSO.

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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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