



ENSO Atmospheric Teleconnections to the Mid-to-High Latitudes

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Message from the Guest Editors

El Niño-Southern Oscillation(ENSO) is the dominant climate mode of the tropical Pacific at interannual timescales impacting many regions around the globe through oceanic and atmospheric teleconnections. The concept of ENSO diversity has recently emerged referring to the existence of two types of El Niño with distinct spatial patterns, evolution and mechanisms. This has implications for understanding its teleconnections to the mid-to-high latitudes where regional air-sea-land interactions can act to modulate ENSO impacts. The eastward intensification of ENSO teleconnections and the expectation that more frequent ENSO extremes will take place under greenhouse warming call also to make progress in our understanding the ENSO impacts in the future climate.

In this Special Issue, we focus on the ENSO teleconnection in the mid-to high latitudes of both Hemispheres and aim to outline some of the current work that addresses these new challenges. We welcome works that deal with the impacts of ENSO on weather and climate anomalies in mid-to high latitudes, as well as novel approaches and methodologies to address atmospheric teleconnections.





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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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