# **Special Issue**

# Atmospheric Boundary Layer Processes, Characteristics and Parameterization (2nd Edition)

# Message from the Guest Editors

The atmospheric boundary layer is distinguished from the rest of the atmosphere by its unique characteristics, i.e., direct interaction with the Earth's surface and active turbulence. Understanding the dynamic and chemical processes in the boundary layer is of great importance in weather and air quality forecasting. Recently, with the improvements made in observation and simulation techniques, our understanding of atmospheric boundary layer processes and characteristics has significantly improved. For example, ultrasonic anemometers and large-aperture scintillometers can provide information on turbulent exchanges, while large eddy simulation techniques simulating the detailed structure of turbulent eddies. This Special Issue is dedicated to reporting new findings with regard to atmospheric boundary layer processes, characteristics, and parametrization methods. Potential topics include, but are not limited to, turbulent exchange, transportation, and their parametrization; boundary layer jet; local atmospheric circulation; surface energy partitioning; atmospheric stability condition; pollutant distribution and transportation; etc.

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### Deadline for manuscript submissions

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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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