Special Issue

Meteorological Issues for Low-Altitude Economy

Message from the Guest Editors

The low-altitude economy (typically referring to economic activities within the airspace from the ground to around 1000–2000 meters) is reshaping the future industrial ecosystem at an unprecedented pace. The explosive growth of emerging sectors such as drone logistics, urban air mobility (UAM), precision agricultural aviation, and low-altitude tourism is expected to produce a global market size of over CNY one trillion by 2030. However, this sustainable development is highly dependent on a deep understanding and precise forecasting of low-altitude meteorology, especially for the atmospheric boundary layer dynamic field. This Special Issue of *Atmosphere* aims to cover papers related to all aspects of new and advanced meteorological techniques that can be applied for the development of the low-altitude economy, such as wind LiDAR remote sensing, the high-resolution modeling of complex-terrain dynamics, UAV measurements, and machine learning.

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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