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Lower Atmosphere Meteorology

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Message from the Guest Editors

Interaction between the biosphere and the atmosphere is made through its lowest layer; hence, this Special Issue is devoted to the meteorological processes in this region. Analyses of precipitation, wind speed, and solar radiation distribution may have a relevant academic interest due to their marked impact on population and energy production. Moreover, issues such as air pollutant dispersion, turbulent fluxes, or the evolution of radioactive isotopes and dangerous gases are conditioned by lower atmosphere meteorology. Other subjects falling in the scope of this Special Issue are the relationship among meteorological variables and the exchange between the atmosphere and its boundary layer. Consequently, this Special Issue is suggested to highlight the influence that the meteorological processes occurring in the layer close to the surface have on living beings and materials. The expected result will be a global vision of the impact of meteorology on life to increase insights in this field, to take the best decisions in human activities and to reduce the adverse effects of natural processes.

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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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