Special Issue

Atmospheric Modeling Study

Message from the Guest Editor

The atmosphere is a complex mixture of physical and chemical processes. Ambient air measurements provide a snapshot of the atmosphere at a given space and time. Policymakers require more than measurements in order to address a variety of environmental issues such as air quality, climate change and human health. An alternative approach using an atmospheric model, which is a mathematical representation of the dynamical, physical, chemical and photolytic processes in the atmosphere, can give a necessary framework for integrating our understanding of atmospheric processes with ambient measurements. In order to improve our understanding of the Earth system, a combination of ambient measurements and modelling is required. Atmospheric modelling results can be used to gain and develop insights into what trace species are present at what concentrations in the atmosphere, how these concentrations are changing over time, where and in what quantities they are being emitted, what the impacts are for these changes and if the policymakers need to introduce legislation or change policies in response to these answers.

Guest Editor

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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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