



## Modeling and Simulation of Planetary Atmospheres

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### Message from the Guest Editor

This Topical Collection is an appropriate venue for original results, review papers, and model expositions related to the simulation of planetary atmospheric dynamics and chemistry, both inside and outside our solar system, are all welcome contributions. Authors are encouraged to consider including comparative planetology and model-user accessibility in their discourse whenever appropriate, and to optionally include a section touching on future issues, opportunities, and/or concerns related to their topics, on the 5-, 10-, and 20-year horizons.

The main goals are for this Topical Collection to be a useful starting point for students, a valuable snapshot of the overarching field for practitioners, and a means of stimulating model interoperability, multidisciplinary collaborations, and new functionality, across the entire hierarchy, from idealized process modeling, to regional, global, fluid-interior, and whole-atmosphere simulations, to planetary operational forecasting.





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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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