

## Special Issue

# Cloud Forecasts from NWP and Climate Models

### Message from the Guest Editor

Clouds play critical roles in a host of meteorological and climate applications. In the treatments of clouds between climate models have been identified as the largest source of uncertainty in the prediction of the future mean temperature of the Earth. However, the accuracy of cloud cover model parameters is seldom addressed in the literature. Therefore, the purpose of this Special Issue is to solicit and document the state of advancements in the analysis of clouds in reanalyses datasets used in cloud simulations, the treatment of clouds in NWP and climate models, the sources of truth data for cloud cover fraction and cloud microphysical properties, the accuracy of cloud analyses in simulation datasets, and the accuracy of forecast products based upon these datasets, as well as to provide an assessment of the technological shortfalls that must be overcome in order to achieve future gains in the prediction of cloud fields with NWP and climate models.

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### Guest Editor

Dr. Keith D. Hutchison

Center for Space Research, The University of Texas at Austin, Austin, USA

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### Deadline for manuscript submissions

closed (29 February 2020)



## Atmosphere

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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!

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### Editor-in-Chief

Dr. Daniele Contini

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