



# Frontiers of Climate Modeling

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# Frontiers of Climate Modeling

## Frontiers of Climate Modeling

The physics and dynamics of the atmosphere and atmosphere-ocean interactions provide the foundation of modern climate models, upon which our understanding of the chemistry and biology of ocean and land surface processes are built. Originally published in 2006, Frontiers of Climate Modeling captures developments in modeling the atmosphere, and their implications for our understanding of climate change, whether due to natural or anthropogenic causes. Emphasis is on elucidating how greenhouse gases and aerosols are altering the radiative forcing of the climate system and the sensitivity of the system to such perturbations. An expert team of authors address key aspects of the atmospheric greenhouse effect, clouds, aerosols, atmospheric radiative transfer, deep convection dynamics, large scale ocean dynamics, stratosphere-troposphere interactions, and coupled ocean-atmosphere model development. The book is an important reference for researchers and advanced students interested in the forces driving the climate system and how they are modeled by climate scientists.



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