

Special Issue

Observations and Simulations of Clouds, Aerosols, Precipitation, and Radiation over the Southern Ocean

Message from the Guest Editors

The Southern Ocean is a critical component of Earth's climate system which has a significant influence on ocean circulation and anthropogenic carbon uptake. This Special Issue aims to bring together high-quality observational (field and remote-sensing) and modeling studies of clouds, aerosols, precipitation, and radiation over the Southern Ocean to advance our understanding of these critical processes and their interactions. These studies' central aim is to improve the representation of these processes in models at multiple spatial and temporal scales and enhance the simulation of this region. Review papers and summaries of recent field campaigns are also welcome.

Guest Editors

Dr. Yi Huang

Prof. Adrian McDonald

Dr. Christina McCluskey

Deadline for manuscript submissions

closed (6 May 2020)



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Atmosphere
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
atmosphere@mdpi.com

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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

Dr. Daniele Contini

Institute of Atmospheric Sciences and Climate (ISAC), National Research Council (CNR), Str. Prv. Lecce-Monteroni km 1.2, 73100 Lecce, Italy

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