Special Issue

Marine Aerosols and Their Effects on Aerosol-Cloud Interactions

Message from the Guest Editors

Aerosols and clouds absorb and scatter solar and terrestrial radiation and play important roles in the Earth's energy balance. This Special Issue calls for papers that explore topics that focus on marine aerosols and their effects on aerosol–cloud interactions through field observations and model simulations. This research will help us better understand the role of marine aerosols and their effect on climate change. The aim of this Special Issue is to gather the latest research on marine aerosols and their climate effects. Potential research topics include, but are not limited to, the following:

- Chemical and physical properties of marine aerosols;
- Number of concentrations and size distributions of marine aerosols;
- Marine biogenic volatile organic compounds;
- Marine aerosol particles, gas precursors, and new particle formation;
- Correlations between phytoplankton dynamics, aerosols, and cloud microphysical processes;
- Observations and model simulations of DMS and aerosol sulfate;
- Aerosols acting as CCN and IN in the lower marine atmosphere;
- Marine aerosols and climate change.

Guest Editors

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Deadline for manuscript submissions

closed (24 September 2024)

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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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