Special Issue

Effects of Aerosols on the Brightness of Marine Low Clouds: From Observations, Simulations, to Data-Driven Approaches

Message from the Guest Editors

The aim of this Special Issue is to provide recent advances in understanding and quantifying aerosol-warm-cloud interactions, their conditionality on meteorology and spatiotemporal scales, and their aggregated impact on the regional and global climate. Original research studies, reviews, and perspective articles on the broad topic of aerosol-cloud interactions are all encouraged. We invite and welcome studies at all scales, from laboratory to field work and from regional investigations to global assessments, using all kinds of approaches, from in situ and remote sensing observations to modelling and machine learning approaches.

Guest Editors

Dr. Jianhao Zhang

Dr. Hendrik Andersen

Dr. Tom Goren

Deadline for manuscript submissions

closed (27 January 2023)

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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!

Editor-in-Chief

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