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Impact of Maritime Transport Efficiency on Shipping Emissions

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Deadline for manuscript submissions:
closed (30 December 2023)

Message from the Guest Editors

Dear Colleagues,

Shipping carries almost 90% of worldwide trade, emitting many air pollutants into the atmosphere. The air emissions from ships significantly impact climate change and ocean acidification and threaten public health. Climate change also results in more severe sea conditions that may challenge a ship's safety. Shipping sustainability is strongly related to the ocean environments encountered by ships.

To promote the decarbonization of maritime transport, we invite you to report your research that contributes to developing, evaluating, and installing energy efficiency measures to reduce air emissions from shipping. Solicited contributions include but are not limited to the statistical modeling of wind and waves, spatiotemporal modeling of air emissions due to transport, the monitoring of air emissions from shipping, extreme sea conditions due to climate change, the study of air emissions reduction due to renewable propulsions, various energy efficiency measures to decarbonize shipping. Papers on means and models to evaluate fuel and air emissions from shipping, climate impacts from Arctic shipping, and barriers to fossil-free shipping are also welcome.

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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!

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Journal Rank: CiteScore - Q2 (Environmental Science (miscellaneous))

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