Special Issue

Emissions from Ships: Sources and Impacts

Message from the Guest Editors

Maritime transport plays a crucial role in global trade, but it is also a significant contributor to air pollution, particularly in coastal and port areas. Ship emissions, including nitrogen oxides (NOx), sulfur oxides (SOx), particulate matter (PM), and volatile organic compounds (VOCs), adversely impact air quality and pose serious health risks to populations in affected regions. This Special Issue aims to bring together innovative research and case studies that examine the sources, dispersion, and health impacts of emissions from ships. We invite contributions focusing on ship engine modeling, real-time emission monitoring, the use of AIS (automatic identification system) data for emission estimation, and the evaluation of mitigation strategies such as cleaner fuels, port electrification, and emission control technologies. Special attention will be given to studies integrating environmental data with health impact assessments and regulatory frameworks. We welcome interdisciplinary approaches combining engineering, environmental science, and public health perspectives to better understand and address the challenges posed by ship emissions. We look forward to your contributions.

Guest Editors

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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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