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Coastal and Urban Meteorology

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Message from the Guest Editors

This SI aims to collect articles on the topic in order to advance the understanding and modeling of the specific physical processes in coastal and urban areas. The new observation data and analysis may contribute to further development of meteorological models on meso and local scales.

The complex structure of coastal and urban ABL, related to the development and interactions between internal boundary layers when the air flow passes over a surface with new characteristics, is also important for specific applications such as air quality, wind energy, urban planning, human comfort, and health conditions.

All listed and more detailed features of coastal and urban meteorology can be better captured by the parametrizations in weather and climate models, which can now be improved based on ground based remote sensing technologies.

In this SI on “Coastal and Urban”, we invite colleagues to present their studies on the abovementioned features, models, applications, and observations in order to form a contemporary view on the topic.

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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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