

Special Issue

Vertical Structure of the Atmospheric Boundary Layer in Coastal Zone

Message from the Guest Editors

We welcome studies covering atmospheric phenomena of a wide range of spatial scales, from synoptical to microscale, including, but not limited to, the following:

- Observations, including in-situ measurements, ground-based and space-borne remote sensing techniques (e.g., scatterometers and synthetic aperture radar), or operational campaigns
- Studies on model uncertainty for different parameterization schemes
- Studies of the dynamics related to profiles of wind speed and direction, temperature, and sea spray in the transition zone/period in the onshore/offshore flow;
- Studies of low-level jet, coastal jets, sea breezes and land breezes, modelling and/or measurements.
- Studies on the effect of the coastal atmospheric phenomena on renewable energy production;
- Studies of air–sea interactions of momentum, heat and gases, through measurements and/or wind–wave coupled modelling.

Guest Editors

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Deadline for manuscript submissions

closed (20 October 2019)



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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

Dr. Daniele Contini

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