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Storm Surge Modeling – Capturing the Wind

Guest Editor:

Dr. Stephen C. Medeiros
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Deadline for manuscript submissions:
closed (30 November 2019)

Message from the Guest Editor

We specifically encourage submissions involving the following topics:

- Boundary layer interactions including momentum transfer, wind drag, and aerodynamic roughness characterization;
- Quantification of the uncertainty associated with air/sea interaction;
- Computational methods for wind-driven surge simulation including advances to high performance distributed computing architecture, data assimilation, and machine learning;
- Parameterization and validation techniques based on in-situ sensor measurements, remote sensing, photogrammetry, etc.;
- Innovative metrics to assess model performance.

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Editor-in-Chief

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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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