Special Issue

Water Environment of Coastal Areas under Current and Future Climate

Message from the Guest Editors

This Special Issue is devoted to coastal zones of seas and oceans, coastal lagoons, and estuaries. Hydrodynamic processes occurring in those often shallow waters are largely driven by meteorological factors. Coastal waters are strongly affected by anthropogenic activities. The ongoing climate changes affecting coastal zones and lagoons as well as estuaries may in future have significant impacts on the intensification of extreme events there and cause serious problems for densely populated low-lying areas. In order to recognize and describe the complex climatological and hydrological setting of the water environment of coastal areas under current and future climate conditions, different statistical and numerical methods may be employed. This Special Issue is open to all publications dealing with weather- and climate-related impacts on hydrodynamic processes in coastal waters, including storm surges, upwelling, downwelling, mixing of fresh and saline waters, water ice regime or wind-driven water backflow in rivers. Contributions focusing on projected climate change impacts on coastal waters, particularly in response to projected threat to coastal societies, are of interest as well.

Guest Editors

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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

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