



Prediction of Weather and Climate Effects on Integrated Watershed, Estuarine, and Coastal Ocean Dynamics

Guest Editor:

Dr. Nickitas Georgas

Davidson Laboratory, Civil,
Environmental, and Ocean
Engineering Department, Stevens
Institute of Technology, Castle
Point on Hudson, Hoboken, NJ
07030, USA

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Message from the Guest Editor

Dear Colleagues,

The Low-Elevation Coastal Zone (LECZ) is home to over 10% of the planet's human population and covers 13% of the global urban space. Our Estuaries have been among the most productive ecosystems of the world since primeval times. The Coastal Ocean provides critical habitat to over 90% of all known marine species. Climate change indicators attest alarming alterations of these environments that affect life and property of our human communities that live on the LECZ and utilize its surrounding coastal resources. Therefore—and in order to inform smart, adaptive management strategies and conservation initiatives—predictions and projections of the coastal zone's physical space and ecosystems need to utilize comprehensive, unified energy flow models that integrate the macroscopic, synoptic and ecosystem level to the detailed level of human engineering. This special issue is launched to provide a compilation of current state of the art and future perspectives in the Prediction of Weather and Climate Effects on Integrated Watershed, Estuarine, and Coastal Ocean Dynamics.

Dr. Nickitas Georgas

Guest Editor





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Editor-in-Chief

Prof. Dr. Tony Clare

School of Natural and
Environmental Sciences,
Newcastle University, Newcastle
upon Tyne NE1 7RU, UK

Message from the Editor-in-Chief

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*Journal of Marine Science and
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MDPI, St. Alban-Anlage 66
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