



## 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

Deadline for manuscript  
submissions:

**closed (31 May 2017)**

### 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*





an Open Access Journal by MDPI

## Editor-in-Chief

**Prof. Dr. Charitha Pattiaratchi**  
School of Engineering, The UWA  
Oceans Institute, The University  
of Western Australia, Perth, WA  
6009, Australia

## Message from the Editor-in-Chief

*Journal of Marine Science and Engineering (JMSE, ISSN: 2077-1312)* focuses on research in the fields of Ocean Engineering, Coastal Engineering, Physical Oceanography, Geological Oceanography, Marine Biology, and Marine Environmental Science. It publishes reviews, regular research papers, and short communications, as well as Special Issues on particular subjects. Our aim is to encourage scientists to publish their experimental and theoretical results in as much detail as possible. There is no restriction on the maximum length of the papers.

## Author Benefits

**Open Access:** free for readers, with article processing charges (APC) paid by authors or their institutions.

**High Visibility:** indexed with Scopus, SCIE (Web of Science), Ei Compendex, GeoRef, Inspec, AGRIS, and other databases.

**Journal Rank:** JCR - Q2 (Engineering, Marine) / CiteScore - Q2 (Ocean Engineering)

## Contact Us

---

*Journal of Marine Science and  
Engineering* Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland

Tel: +41 61 683 77 34  
www.mdpi.com

mdpi.com/journal/jmse  
jmse@mdpi.com  
X@JMSE\_MDPI