Special Issue

Sea Surface Temperature: From Observation to Applications

Message from the Guest Editor

In a global and accelerated climate change environment, sea surface temperature (SST) was defined by the World Meteorological Organization as one of the essential climate variables that contribute to the characterization of the Earth's climate. Recent studies confirmed that a huge amount of energy is being stored in the oceans; so, SST emerged as a proxy of this energy reservoir, especially to derive future trends in climate change and impacts on the frequency of weather extremes and their growing impact on human societies. This energy storage has a considerable impact on the atmosphere–ocean system through heat exchange. More attention is being paid to SST monitoring and analysis so that advances have been recorded in these fields. The main topics welcome in this special issue of *JMSE* include, but are not limited to:

- SST measuring techniques: remote sensing
- SST measurement networks
- SST data treatment
- SST climate
- Impacts on marine biodiversity
- Impacts on atmospheric phenomena
- Teleconnection with climatic patterns
- Physical and dynamical oceanography
- SST and general ocean circulation

Guest Editor

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About the Journal

Message from the Editor-in-Chief

The *Journal of Marine Science and Engineering* (*JMSE*; ISSN 2077-1312) is an international peer-reviewed open access journal which provides an advanced forum for studies related to marine science and engineering. The journal aims to provide scholarly research on a range of topics, including ocean engineering, chemical oceanography, physical oceanography, marine biology and marine geosciences. We invite you to publish in our journal sharing your important research findings with the global ocean community.

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