

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

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.

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