



Enhanced Satellite Perspectives of Sea Surface Temperature and Air-Sea Interaction

Guest Editors:

Dr. Hazem Nagy

Dr. Omneya Ibrahim

Dr. Bayoumy Mohamed

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Message from the Guest Editors

Sea surface temperatures have increased significantly over the past four decades at regional and global scales. This warming affects climate and biogeochemical cycles, ocean circulation, stratification, melting of ocean-bounding glaciers and ice sheets around Greenland and Antarctica, and the exchange of momentum, heat, and gases between the ocean and atmosphere. In addition, this accelerated warming can lead to extreme events that have devastating effects on the marine ecosystem. Sea surface temperature, surface air temperature, and sea ice concentration have been classified as essential climate variables (ECVs) by the Global Climate Observing System (GCOS) due to their climate relevance, technical feasibility, and cost-effectiveness, as they play an important role in regulating Earth's climate system and its variability.

We invite papers which use Sea Surface Temperature, Sea Ice concentration, and chlorophyll-a remote-sensing datasets and techniques to understand spatiotemporal trends and extreme events. Furthermore, the possible relation between atmospheric forcings and large-scale teleconnection patterns with these extreme events.





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Dr. Prasad S. Thenkabail

Senior Scientist (ST), U. S.
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Center (WGSC), 2255, N. Gemini
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Remote Sensing Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

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