



## Advances in Retrieval, Operationalization, Monitoring and Application of Sea Surface Temperature

Guest Editors:

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Deadline for manuscript  
submissions:  
**closed (31 August 2020)**

### Message from the Guest Editors

Dear Colleagues,

Sea surface temperature (SST) is a key variable of the Earth system that regulates the interaction between the atmosphere and the ocean through energy and gaseous exchange, thereby influencing weather and climate patterns. Retrieval of SST is based on observations from both low-Earth orbit infrared and microwave sensors and geostationary orbit infrared imagers. Many applications with important societal benefits depend on the global and regional mapping of SST, such as weather forecasts, climate variability and change prediction, maritime safety, environmental monitoring, and management of marine ecosystems and fisheries. Therefore, a further important requirement is scientific stewardship of SST data, which includes production, validation, archival, and dissemination of these products.

To summarize the progress to date and the remaining challenges in space-based SST retrievals and make the information available to a wide-reaching audience, we are calling for papers on the *retrieval, operationalization, monitoring, and application* of SST from various *sensors*. The selection of papers for publication will depend on the quality and rigor of research.





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