



Recent Advances in Sea Ice Research Using Satellite Data (Second Edition)

Guest Editors:

Dr. Linlin Xu

Dr. Xinwei Chen

Dr. Qingyun Yan

Dr. Juha Karvonen

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Message from the Guest Editors

Given the escalating concerns surrounding global warming, understanding the swift transformations in sea ice across the Arctic and Antarctic Oceans holds paramount significance, particularly with regard to gaining new insights into the intricate relationship between the atmosphere, ocean, and Earth, as well as the emergence and implications of Arctic shipping routes.

The progressive utilization of remotely sensed data from satellites has played a pivotal role in advancing our comprehension of sea ice dynamics. Satellite-based observations have provided valuable insights into the characteristics and changes in sea ice cover, thickness, and concentration.

In this Special Issue, we aim to showcase the recent strides made in sea ice research, with an emphasis on cutting-edge, AI-based sea ice mapping methods, novel satellite sea ice datasets, and innovative processing techniques for satellite sensor data.





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Dr. Prasad S. Thenkabail

Senior Scientist (ST), U. S.
Geological Survey (USGS), USGS
Western Geographic Science
Center (WGSC), 2255, N. Gemini
Dr., Flagstaff, AZ 86001, USA

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Contact Us

Remote Sensing Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

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