

Special Issue

Remote Sensing of Polar Ocean, Sea Ice and Atmosphere Dynamics

Message from the Guest Editors

In this Special Issue, we welcome papers focusing on remote sensing of ocean, sea ice, and atmosphere dynamics in the Polar Oceans, including, but not limited to:

- Large-scale ocean circulation, gyres and current systems;
- Mesoscale and submesoscale ocean dynamics (eddies, internal waves, fronts and filaments) and their influence on water mixing and sea ice properties;
- Coastal and shelf processes, including coastal erosion, coastal upwelling, and cross-shelf water exchange;
- Freshwater transport and river plumes;
- Sea ice dynamics and ice cover variability at different spatial and temporal scales;
- Processes in the marginal ice zone and formation of meltwater fronts;
- Wind waves, their generation and influence on sea ice and hydrology;
- Polar lows and other atmospheric extremes;
- Variations of sea level and the large-scale water balance;
- Marine pollution, including macro- and microplastics;
- Impact of ocean and sea ice dynamics on biological productivity and transport of biogeochemical substances and pollutants;
- Interaction processes in the coupled atmosphere–sea ice–ocean system.

Guest Editors

Dr. Igor E. Kozlov

Prof. Dr. Alexander Osadchiv

Dr. Arseny Kubryakov

Deadline for manuscript submissions

closed (31 December 2023)



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Remote Sensing
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
remotesensing@mdpi.com

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About the Journal

Message from the Editorial Board

Remote Sensing is now a prominent international journal of repute in the world of remote sensing and spatial sciences, as a pioneer and pathfinder in open access format. It has highly accomplished global remote sensing scientists on the editorial board and a dedicated team of associate editors. The journal emphasizes quality and novelty and has a rigorous peer-review process. It is now one of the top remote sensing journals with a significant Impact Factor, and a goal to become the best journal in remote sensing in the coming years. I strongly recommend *Remote Sensing* for your best research publications for a fast dissemination of your research.

Editors-in-Chief

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

Prof. Dr. Dongdong Wang

Institute of Remote Sensing and Geographic Information Systems, Peking University, Beijing, China

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