

## Special Issue

# Application of Remote Sensing in Antarctic Ice Sheet Monitoring

### Message from the Guest Editors

The Antarctic is undergoing significant changes in response to atmospheric and ocean warming. The effects of this warming include ice sheet and ice shelf mass loss and weather and climate changes, including the increased incidence of atmospheric rivers and surface melt. There is a need to understand feedback loops including changes to the albedo, moisture balance, and mass. Furthermore, in order to project future change, it is important we understand the current fluxes of water and energy. Climate impacts on the Antarctic ice sheet and sea ice will affect ocean and atmospheric circulation on global scales. Remote sensing is the only group of technologies that offer wide spatial coverage with multi-temporal observation capabilities. This Special Issue aims to gather a collection of the latest applications of remote sensing to identify, quantify, and analyze the impacts of a changing climate on Antarctica. It will address the breadth of technologies and applications used in Antarctic science. Contributions may address observations from local process scales to continent-wide studies.

---

### Guest Editors

Dr. Ian Brown

Department of Physical Geography, Stockholm University, Stockholm, Sweden

Dr. Andreas J. Dietz

German Remote Sensing Data Center (DFD), German Aerospace Center (DLR), Muenchner Strasse 20, D-82234 Wessling, Germany

---

### Deadline for manuscript submissions

closed (31 December 2025)



## Remote Sensing

---

an Open Access Journal  
by MDPI

---

Impact Factor 4.1  
CiteScore 8.6



[mdpi.com/si/243332](https://mdpi.com/si/243332)

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

[mdpi.com/journal/  
remotesensing](https://mdpi.com/journal/remotesensing)





# Remote Sensing

---

an Open Access Journal  
by MDPI

---

Impact Factor 4.1  
CiteScore 8.6



[mdpi.com/journal/  
remotesensing](https://mdpi.com/journal/remotesensing)



## 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

---

### Author Benefits

#### Open Access:

free for readers, with article processing charges (APC) paid by authors or their institutions.

#### High Visibility:

indexed within Scopus, SCIE (Web of Science), Ei Compendex, PubAg, GeoRef, Astrophysics Data System, Inspec, dblp, and other databases.

#### Journal Rank:

JCR - Q1 (Geosciences, Multidisciplinary) / CiteScore - Q1 (General Earth and Planetary Sciences)