

## Special Issue

# Remote Sensing of Global Snow Water Equivalent: Monitoring Snow Water Equivalent from Space

### Message from the Guest Editors

This Special Issue invites manuscripts on all aspects of remote sensing of snow, focusing on measurements and models toward achieving quantitative estimation of snow water equivalent (SWE) from local to global scales. We are looking for manuscripts describing novel approaches to monitoring SWE, state of the art uses of currently available satellite observations, including development and assessment of retrieval algorithms, ground validation and uncertainty characterization of SWE products at multiple spatial resolutions, demonstrations of new technologies for snow remote sensing, demonstrations of methods to combine varied observations and models into integrated snow products, advanced computational frameworks, model development and applications, coupled physical-radiative transfer models over heterogeneous domains, downscaling methods, and snow data assimilation. End-to-end studies, including OSS (Observing System Simulator) trade studies, feasibility experiments of alternative remote-sensing measurement architectures and their impact on estimation errors, and the integration of snow observations into Weather, Climate, and Earth System models are encouraged.

---

### Guest Editors

Prof. Dr. Ana P. Barros

Prof. Dr. Paul Houser

Dr. Edward Kim

Dr. Carrie Vuyovich

Dr. Dohyuk "DK" Kang

Dr. Rhae Sung Kim

et al.

---

### Deadline for manuscript submissions

closed (30 June 2022)



## Remote Sensing

---

an Open Access Journal  
by MDPI

---

Impact Factor 4.1  
CiteScore 8.6



[mdpi.com/si/66180](https://mdpi.com/si/66180)

*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)