

## Special Issue

# Analyzing the Influence of Environmental Change on Water and Terrestrial Vegetation Using Satellite Data

### Message from the Guest Editors

Examining the influence of environmental changes on water and terrestrial vegetation through the utilization of satellite data requires extensive scientific studies, which leverage satellite-derived variables such as vegetation greenness, water dynamics, and associated indicators to understand the complex interplaying factors between shifts in the environment and the dynamics of terrestrial vegetation. The studies under this topic have far-reaching implications for various fields, including ecology, conservation, and resource management, as they can provide a comprehensive understanding of how environmental change interacts with terrestrial vegetation. Therefore, this Special Issue cordially invites submissions of innovative research related to the following research topics: vegetation and forest drought monitoring, land use change and its implication, impacts of climate change on vegetation greenness, the application of in situ measurements to validate the vegetation greenness, benefits of best management practices to enhance vegetation greenness, impacts of deforestation and urbanization on local flora and any other drought-related studies.

---

### Guest Editors

Dr. Yared Bayissa

Prof. Dr. Assefa M. Melesse

Prof. Dr. David de Andrade Costa

---

### Deadline for manuscript submissions

20 March 2025



## Remote Sensing

---

an Open Access Journal  
by MDPI

---

Impact Factor 4.2  
CiteScore 8.3



[mdpi.com/si/183485](https://mdpi.com/si/183485)

*Remote Sensing*  
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 4.2  
CiteScore 8.3



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



## About the Journal

### Message from the Editor-in-Chief

*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.

---

### Editor-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

---

### 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)