

Special Issue

Remote Sensing in Aquatic Vegetation Monitoring

Message from the Guest Editors

Aquatic plants or macrophytes are primary producers that grow in water. Macrophytes provide habitat for fish and aquatic invertebrates, produce oxygen, and act as food for fish and wildlife. Macrophytes are sessile, react on changes in the environment and are therefore indicators for changing environmental conditions. The growth of macrophytes is influenced by global change effects. These phenomena affect population composition, growth dynamics and promote endemic or alien invasive species. Ship-, air- and spaceborne remote sensing (RS) approaches can support inventory and monitoring of macrophytes. At present mainly optical systems are in use to analyse spatial, spectral or temporal changes and deliver information on bathymetry. Sonar and Green Lidar techniques complement the spectral information based approaches of optical systems by bathymetric information and, to some extent, height information of macrophyte populations, expected to improve biomass estimation in contribution to methane emissions by lakes and rivers.

Guest Editors

Dr. Thomas Schneider

Technical University Munich (TUM), Chair for Aquatic System Biology, Limnological Station, Arcisstrasse 21, 80333 Munich, Germany

Prof. Dr. Natascha Oppelt

Department for Geography, Remote Sensing & Environmental Modelling, Christian-Albrechts-University Kiel (CAU), 24118 Kiel, Germany

Deadline for manuscript submissions

closed (31 October 2021)



Remote Sensing

an Open Access Journal
by MDPI

Impact Factor 4.1
CiteScore 8.6



mdpi.com/si/40881

Remote Sensing
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
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 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)