



## Advances in Oceanic Dynamics by SAR and Numeric Model in Tropical Cyclone

Guest Editors:

**Prof. Maurizio Migliaccio**

**Dr. Jian Shi**

**Prof. Dr. Weizeng Shao**

**Dr. Xianbin Zhao**

Deadline for manuscript  
submissions:

**28 October 2025**

### Message from the Guest Editors

SAR is an advanced sensor for upper ocean monitoring. During the Satellite Hurricane Observation Campaign (SHOC), tropical cyclones are captured by various SARs, i.e., Sentinel-1 and Gaofen-3. In this sense, developing algorithms for SAR retrievals in tropical cyclones is worthwhile. Furthermore, combining the SAR measurements and numeric models brings the opportunity to prompt research on the complicate dynamics at air–sea layer.

This Special Issue welcomes the submission of original research manuscripts or reviews in, but not limited to, the following topics:

- Backscattering theory of remote sensing in tropical cyclone;
- Algorithm for SAR retrievals (i.e., wind, wave, current, etc.);
- Extreme sea state using a numeric wave model;
- Disaster assessment caused by tropical cyclone;
- Analysis of characteristics of tropical cyclone;
- Other tropical cyclone-relevant applications using other remote sensors.





an Open Access Journal by MDPI

## 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

## 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.

## 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)

## Contact Us

*Remote Sensing* Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland

Tel: +41 61 683 77 34  
[www.mdpi.com](http://www.mdpi.com)

[mdpi.com/journal/remotesensing](http://mdpi.com/journal/remotesensing)  
[remotesensing@mdpi.com](mailto:remotesensing@mdpi.com)  
[X@RemoteSens\\_MDPI](https://twitter.com/RemoteSens_MDPI)