Special Issue

Remote Sensing for Ocean-Atmosphere Interaction Studies

Message from the Guest Editor

Improved observational infrastructures, including advanced satellite systems and expanded in situ networks, now provide more precise and realistic measurements, leading to substantial progress in capturing air–sea interactions and refining model evaluations. However, integrating detailed air–sea interaction processes at regional and local scales introduces uncertainties, emphasizing the need for balanced approaches that effectively manage the trade-off between predictive accuracy and forecast uncertainty. This Special Issue invites contributions that advance measurement techniques, satellite retrieval algorithms, numerical modeling frameworks, data assimilation methods, and integrated observational strategies related to air–sea interactions. Studies leveraging data mining, machine learning, and other analytical approaches to extract deeper insights from observational and model datasets are encouraged. Additionally, research focusing on reducing uncertainties in lower-tropospheric processes, particularly their influence on high-impact weather events in the context of air–sea interactions, is highly welcomed.

Guest Editor

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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

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