Special Issue

Passive Remote Sensing of Oceanic Whitecaps

Message from the Guest Editor

Oceanic whitecaps (sea foam), formed by breaking waves with air entrainment, enhance the air–sea transfer of momentum, heat, and mass between the ocean and the atmosphere. Whitecap fraction, W, is a suitable parameter to quantify these air–sea fluxes. The study and parameterization of air–sea processes affected by breaking waves requires whitecap observations over a wide range of oceanographic and meteorological conditions. Passive remote sensing of whitecaps with satellite-based microwave radiometers (1 to 37 GHz) has demonstrated the utility of global, long-term observations. Whitecaps can also be observed with radiometers in the visible and infrared portions of the electromagnetic spectrum. The observation of whitecaps from airplanes, drones, or oceanographic platforms (ships and towers) can refine remote sensing techniques and retrieval algorithms. Successful remote sensing of whitecaps relies on in situ W data for validation.

This open access Special Issue invites high-quality and innovative scientific papers focusing on the remote sensing of oceanic whitecaps.

Guest Editor

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Deadline for manuscript submissions

closed (28 February 2022)

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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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