



Remote Sensing for Wind Speed and Ocean Currents

Guest Editor:

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Message from the Guest Editor

Dear Colleagues,

The dynamics of the ocean's upper layer is an important parameter that determines the heat and mass transfer between the ocean and the atmosphere. Wind is one of the main external parameters that form the dynamic characteristics of the surface layer.

The purpose of this issue is:

- The application of standard products for wind speed estimation, intercomparison, and algorithm improvement;
- Methods of using optical and SAR data to reconstruct wind speed features with high spatial resolution;
- Description of perspective sensors;
- The application and estimation of the accuracy of altimetry data to restore the speed of currents, combined with drift currents;
- The development of new panoramic altimeters;
- The use of the "optical flow" methods for estimation of surface currents and ice drift;
- The investigation of surface currents in mesoscale and submesoscale structures based on the analysis of the reflected component in the optical range.





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