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Remote Sensing of Wave Fields under Extreme Weather Conditions (in Tropical and Extra-Tropical Cyclones and Polar Lows)

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Deadline for manuscript submissions:

closed (31 August 2023)

Message from the Guest Editors

Dear Colleagues,

Tropical cyclones (TCs) and Polar lows (PLs) pose potential threats to developing coastal activities and shipping in the Arctic, as well as impacting the growing ice-free Arctic areas. The TC-generated surface currents and waves have significant impacts on the ocean's upper layer, being the cause of baroclinic movements, vertical mixing, and thermocline erosion. The air–sea interaction processes and surface fluxes are also affected by intense wave breaking and spray under extreme weather conditions.

Any significant progress in the modeling of TC/PL dynamics and waves and relating the air–sea interaction process under TC/PL require extensive in situ and remotesensing observations. The latter is the most effective way to provide data on atmospheric and ocean parameters in extreme conditions using and combining microwave and optical measurements from different instruments and platforms including satellites and aircraft.

This Special Issue invites high-quality and innovative scientific papers focusing on the remote sensing of surface waves, ocean surfaces, and air–sea interaction processes under TC/PL.



Specialsue







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Message from the Editor-in-Chief

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