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Recent Advances on Oceanic Mesoscale Eddies

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Deadline for manuscript submissions:
closed (20 May 2023)

Message from the Guest Editors

Mesoscale eddies are energetic coherent structures that play a crucial role in the ocean. They have typical horizontal scales ranging from 10-100 km and lifetimes from months to sometimes years. They can connect the coastal and the open ocean, generate a downscale energy cascade, trap and transport heat, salt, pollutants and biogeochemical tracers at long distances.

The aim of this Special Issue is to advance our understanding of complex mesoscale eddy activity. Therefore, this SI welcomes manuscripts dealing with eddy dynamics, eddy properties variability, transport, or impact on ocean circulations and on marine ecosystems We accept contributions based on standard and new methods that can permit the improvement of the mesoscale eddy identification and knowledge. We also strongly encourage works that combine these remote sensing techniques with theory, in-situ observations data and/or modelling output to explore complex physical-biological interactions driven by mesoscale eddies or to unveil the vertical structure of surface imprints of eddies detected by satellites.

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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.

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