



Application of Satellite Radar Altimetry to Sea Level and Shoreline Dynamics

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Message from the Guest Editors

Dear colleagues,

Against the backdrop of global climate change, various anomalies, such as a rising sea level, abnormal currents, extreme weather, and changes in sea ice, have emerged, further affecting the dynamics of the coastline. Satellite radar altimetry provides a unique sea level dataset with almost global coverage, including the monitoring of ocean circulation changes, sea level changes, extreme events (storm surges and hurricanes), waves, and swells. New coastal altimetry techniques, algorithm improvements and corrections, and new applications continue to be the focus of research to extract ocean information more accurately.

The purpose of this Special Issue is to compile original research articles on the application of satellite radar altimetry to sea level change, changes in coastal dynamics and marine geological monitoring, as well as the development and application of satellite altimetry products for coastal monitoring. Further technological innovations and in-depth research on satellite radar altimetry, including the optimization of algorithms, models, etc., are welcome.





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