Special Issue

New Trends in the Observation of Coastal Areas by Means of High Frequency Radars

Message from the Guest Editor

HF radars are land-based remote sensing instruments characterized by a very high spatial and temporal resolution; they provide synoptic information on the surface current field in coastal areas with unprecedented detail, spanning a wide range of scales, from the basin down to the submesoscale. Such fields are not only invaluable for describing the surface dynamics of coastal areas, but also for studies on physical transport of pollutants, physical–biological interactions, and biological connectivity. In addition to surface currents, HF radars provide information on surface gravity waves and on surface winds, both subjects of strong interest for their important operational utilizations. In this Special Issue, we would like to focus on established and new applications of such a technology, with a particular attention to the more recent ones, such as wave and wind measurements, HF radar data fusion in the framework of multiplatform observation efforts, HF radar data assimilation into circulation models, HF radar data utilization for studies on physical–biological coupling in coastal areas.

Guest Editor

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Message from the Editor-in-Chief

The *Journal of Marine Science and Engineering* (*JMSE*; ISSN 2077-1312) is an international peer-reviewed open access journal which provides an advanced forum for studies related to marine science and engineering. The journal aims to provide scholarly research on a range of topics, including ocean engineering, chemical oceanography, physical oceanography, marine biology and marine geosciences. We invite you to publish in our journal sharing your important research findings with the global ocean community.

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