

Special Issue

Hydroclimatic Events in Regions Subject to Rainfall Oscillation

Message from the Guest Editor

While some regions are subject to strong seasonality of precipitation, others experience an interannual rainfall oscillation with socioeconomic and environmental impacts that largely depend on the mechanisms involved. Usually generated by sea surface temperature (SST) anomalies produced by Rossby waves at mid-latitudes with an average period of 8 years, and possibly amplified by anthropogenic forcing, the decadal oscillation of rainfall can lead to catastrophic events. This may happen under the effect of extratropical cyclones when they are guided by positive SST anomalies. This rainfall oscillation can also lead to episodes of flood, or drought, even heat waves. Longer-period rainfall oscillation may be critical to understanding the link between climate change and biodiversity. In this Special Issue, we aim to bring together theoretical, observational, and modelling studies and to review and advance our understanding and prediction of rainfall variability at different timescales with a special emphasis on, but not limited to, ocean–atmosphere interactions.

Guest Editor

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About the Journal

Message from the Editor-in-Chief

Journal of Marine Science and Engineering (JMSE, ISSN: 2077-1312) focuses on research in the fields of Ocean Engineering, Coastal Engineering, Physical Oceanography, Geological Oceanography, Marine Biology, and Marine Environmental Science. It publishes reviews, regular research papers, and short communications, as well as Special Issues on particular subjects. Our aim is to encourage scientists to publish their experimental and theoretical results in as much detail as possible. There is no restriction on the maximum length of the papers.

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