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 biodiversit. 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.

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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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