

## Special Issue

# Interannual Rainfall Variability and Anthropogenic Warming: Extreme Flood Events

### Message from the Guest Editor

This Special Issue has been initiated by a pressing demand following the increasingly frequent observation of extreme hydroclimatic phenomena occurring at mid-latitudes in regions subject to the oscillation of rainfall. These regions, which are under the influence of sea surface temperature anomalies at the high latitudes of the five subtropical gyres are (1) Southwestern North America, (2) Texas, (3) Southeastern North America, Northeastern North America, southern tip of Greenland, Europe, and Western–Central Asia, (4) Region of the Rio de la Plata, (5) Southwestern and Southeastern Australia, (6) Southeast Asia. These regions are characterized jointly by high interannual and low seasonal variabilities of precipitation. They are therefore naturally subjected to the alternation of interannual wet or dry periods. Over the last few decades, there has been an increase in the frequency of extreme events, either flooding caused by convective rains or episodes of drought and heat waves. We will focus more particularly (but not exclusively) on the study of mechanisms and their modeling to (1) improve forecasting techniques and (2) quantify the anthropogenic impact.

---

### Guest Editor

Dr. Jean-Louis Pinault

Independent Scholar, 96, Rue du Port David, 45370 Dry, France

---

### Deadline for manuscript submissions

closed (10 January 2022)



## Journal of Marine Science and Engineering

---

an Open Access Journal  
by MDPI

---

Impact Factor 2.8  
CiteScore 5.0



[mdpi.com/si/90785](https://mdpi.com/si/90785)

*Journal of Marine Science and  
Engineering*  
Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland  
Tel: +41 61 683 77 34  
[jmse@mdpi.com](mailto:jmse@mdpi.com)

[mdpi.com/journal/  
jmse](https://mdpi.com/journal/jmse)





# Journal of Marine Science and Engineering

---

an Open Access Journal  
by MDPI

---

Impact Factor 2.8  
CiteScore 5.0



[mdpi.com/journal/  
jmse](https://mdpi.com/journal/jmse)



## About the Journal

### 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.

---

### Editor-in-Chief

Prof. Dr. Charitha Pattiaratchi  
School of Engineering, The UWA Oceans Institute, The University of  
Western Australia, Perth, WA 6009, Australia

---

### Author Benefits

#### High Visibility:

indexed with Scopus, SCIE (Web of Science), Ei  
Compendex, GeoRef, Inspec, AGRIS, and other databases.

#### Journal Rank:

JCR - Q2 (Engineering, Marine) / CiteScore - Q2 (Ocean  
Engineering)

#### Rapid Publication:

manuscripts are peer-reviewed and a first decision is  
provided to authors approximately 15.6 days after  
submission; acceptance to publication is undertaken in 1.9  
days (median values for papers published in this journal in  
the first half of 2025).