# **Special Issue**

# The Dynamics and Impacts of Ocean-Atmosphere Coupling on Regional and Global Climate

## Message from the Guest Editors

The ocean and atmosphere, as critical components of the Earth's system, interact across various spatial and temporal scales, regulating the global energy balance and water cycle and influencing climate changes. Understanding these interactions is essential for predicting climate variability and has become a cutting-edge field in oceanography and atmospheric science. This Special Issue aims to enhance our understanding of ocean-atmosphere coupling and address unresolved scientific challenges. We welcome original research articles and reviews. Topics of interest include, but are not limited to, the following:

- The roles of air-sea interactions at different scales in the global energy and water cycle processes;
- Changes in the ocean, atmosphere, and coupled systems in the context of global warming;
- Air-sea interactions during extreme weather events, such as typhoons/hurricanes;
- The relationship between ocean-atmosphere coupling processes in key oceanic regions and global climate change

#### **Guest Editors**

Dr. Aixue Hu

Climate Change Research Section (CCR), Global Climate Dynamics Laboratory (CGD), National Center for Atmospheric Research (NCAR), 1850 Table Mesa Dr., Boulder, CO 80305, USA

Dr. Mengrong Ding

Marine Science and Technology College, Zhejiang Ocean University, Zhoushan 316022, China

## Deadline for manuscript submissions

31 January 2026



# **Climate**

an Open Access Journal by MDPI

Impact Factor 3.2 CiteScore 5.7



mdpi.com/si/230524

Climate
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
climate@mdpi.com

mdpi.com/journal/climate





# **Climate**

an Open Access Journal by MDPI

Impact Factor 3.2 CiteScore 5.7



## **About the Journal**

## Message from the Editor-in-Chief

Climate (ISSN 2225-1154) was established in 2013 to provide an open-access outlet for innovative research, review articles, new direction papers, and short communications relevant to all disciplines related to climate at all scales. The journal encourages papers ranging from climate change detection and attribution and Earth system modeling to ecosystem, hydrologic, and socioeconomic impacts and climate mitigation and adaptation measures. The influence of Climate is strong and growing (IF 3.2 in 2024, CiteScore 5.7 in 2024).

#### Editor-in-Chief

Dr. Timothy G. F. Kittel

Institute of Arctic and Alpine Research, University of Colorado Boulder, Boulder, CO 80309-0450, USA

#### **Author Benefits**

## **High Visibility:**

indexed within Scopus, ESCI (Web of Science), GeoRef, AGRIS, and other databases.

#### Journal Rank:

JCR - Q2 (Meteorology and Atmospheric Sciences) / CiteScore - Q2 (Atmospheric Science)

### **Rapid Publication:**

manuscripts are peer-reviewed and a first decision is provided to authors approximately 21.6 days after submission; acceptance to publication is undertaken in 3.9 days (median values for papers published in this journal in the first half of 2025).

