Special Issue

Air-Sea Interactions: Recent Trends, Current Progress and Future Directions

Message from the Guest Editor

Air–sea interactions refer to the complex and dynamic interplay between the Earth's atmosphere and its oceans. These interactions are fundamental to understanding and predicting weather, climate, and various environmental processes. They play a crucial role in shaping global and regional climate patterns, ocean currents, weather systems, and extreme events. This Special Issue focuses on fostering a better understanding of how the fluctuations in air–sea interactions in recent decades have induced modifications in global and regional precipitation, evaporation, oceanic surface processes such as upwelling and downwelling, cyclone frequency, and climate teleconnections. It is particularly important to investigate how the impact of inter-annual changes in air–sea interactions leads to modifications in water balance and heat stress. Finally, it is encouraged to submit studies on marine ecosystems and biodiversity, heat waves and costal and human impact.

Guest Editor

Prof. Dr. Flávio Justino
Department of Agricultural Engineering, Federal University of Viçosa, Viçosa 36570-900, MG, Brazil

Deadline for manuscript submissions

closed (31 October 2025)

Atmosphere

an Open Access Journal by MDPI

Impact Factor 2.3
CiteScore 4.9

mdpi.com/si/214552

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

mdpi.com/journal/atmosphere

Atmosphere

an Open Access Journal by MDPI

Impact Factor 2.3
CiteScore 4.9

mdpi.com/journal/atmosphere

MDPI

About the Journal

Message from the Editor-in-Chief

Continued developments in instrumentation and modeling have driven atmospheric science to become increasingly more complex with a deeper understanding of concepts, mechanisms, and interactions. This is the field that innovation built and it has led to a better appreciation for the complexity with atmosphere. Human life is intertwined in this complexity as we strive to better understand our atmosphere. Climate change is constantly stretching the limits of our thinking and forcing new ideas and concepts to be played out. Welcome to the Anthropocene!

Editor-in-Chief

Dr. Daniele Contini
Institute of Atmospheric Sciences and Climate (ISAC), National Research Council (CNR), Str. Prv. Lecce-Monteroni km 1.2, 73100 Lecce, Italy

Author Benefits

Open Access:

free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility:

indexed within Scopus, SCIE (Web of Science), Ei Compendex, GEOBASE, GeoRef, Inspec, CAPlus / SciFinder, Astrophysics Data System, and other databases.

Journal Rank:

CiteScore - Q2 (Environmental Science (miscellaneous))