Special Issue

Advances in Methods for the Investigation of the Atmospheric Water Cycle

Message from the Guest Editor

The atmospheric water cycle is a crucial component of Earth, playing an important role in understanding climate change, weather patterns, and water resource management. This Special Issue welcomes submissions on, but not limited to, the following topics:

- Novel remote sensing instruments and data processing methods;
- Monitoring and analysis methods for water vapor transport;
- High-resolution simulations of the atmospheric water cycle;
- Applications of machine learning and artificial intelligence in optimizing water cycle models;
- Changes in the water cycle under different climate scenarios due to climate change;
- Impacts of extreme weather events on water resources;
- Quantitative methods for the dynamic relationships between precipitation, evaporation, soil moisture, and vegetation;
- Assessment methods for the impacts of climate change on transboundary water resources.

Guest Editor

Dr. Lifeng Wu

School of Hydraulic and Ecological Engineering, Nanchang Institute of Technology, Nanchang 330099, China

Deadline for manuscript submissions

20 January 2026

Atmosphere

an Open Access Journal by MDPI

Impact Factor 2.3
CiteScore 4.9

mdpi.com/si/222859

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))