# Special Issue

# Observations of Atmospheric Water Vapor and Precipitation: Observation Progress, Retrieval Challenges, and Their Correlations

## Message from the Guest Editors

To explore innovative avenues for more accurately monitoring the quick spatial–temporal variations in water vapor and precipitation and study the interaction between water vapor and precipitation under the warming climate, we encourage researchers to share their new methods of water vapor and precipitation observations based on various platforms and sensors, new datasets of water vapor and precipitation, new findings related to the change in water vapor and precipitation, and their correlations. Potential topics include but are not limited to:

- New methods to retrieve total column water vapor or moisture profiles using various platforms;
- New theories and techniques for satellite precipitation estimations and retrievals;
- New multisource blended precipitation or water vapor datasets;
- New data fusion methods for precipitation or water vapor under various sensors/platforms;
- Error characteristic analysis on satellite precipitation products;
- Radiative transfer model for precipitation and clouds;
- The changing characteristics of water vapor and precipitation under the warming climate and their correlations.

## Guest Editors

Dr. Dabin Ji

Dr. Shihao Tang

Dr. Ziqiang Ma

Dr. Wei Li

Dr. Yingzhao Ma

## Deadline for manuscript submissions

closed (31 October 2023)

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# 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

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