Special Issue

Air Temperature and Precipitation and Relationship to Atmospheric Circulation (2nd Edition)

Message from the Guest Editors

Atmospheric circulation is one of the main climate-forming factors that determine changes in the regime and territorial distribution of climatic elements. On the other hand, changes in air temperature affect baric centers in the atmosphere and lead to changes in atmospheric circulation characteristics. Knowledge of the role of atmospheric circulation in changes in air temperature and precipitation can contribute to a better determination of the extent of the anthropogenic influence on climate change. Scientific research shows that, due to climate change, extreme weather and climate phenomena such as high temperatures, heat waves, intense precipitation, and droughts are becoming more frequent and intense. The aim of this Special Issue is to contribute to the clarification of causal relationships in the climate system, specifically, of the relationships among air temperature, precipitation, and atmospheric circulation at the global, regional, and local levels.

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Deadline for manuscript submissions

30 November 2025

Atmosphere

an Open Access Journal by MDPI

Impact Factor 2.3
CiteScore 4.9

mdpi.com/si/210269

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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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