

Special Issue

Hydroclimate Dynamics and Extreme Weather Events in Africa

Message from the Guest Editors

This Special Issue focuses on climate dynamics and extreme weather events in Africa, with the aim of exploring the current status, trends, and potential impacts in the region amidst the backdrop of climate change. Africa is a diverse continent, playing a critical role in the global climate system. However, it faces increasing challenges due to local and global greenhouse gas emissions. The research covered in this Special Issue includes various aspects of:

- Atmospheric moisture fluxes and soil water budget: Examining precipitation–evaporation balance, river discharge, and run-off patterns and trends;
- Atmospheric emissions and air chemistry over Africa: Analyzing biomass burning, deforestation, and urban–industrial emissions;
- Droughts and floods: Addressing the frequency, intensity, historical trends, future projections, and impacts that threaten water resources, agriculture, food security, and infrastructure;
- Climate variability and extreme weather: Studying the mechanisms that connect climate variability to extreme weather events such as intense rainfall, dust plumes, and heatwaves in Africa.

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Editor-in-Chief

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