

Aerosols and Precipitation Over Africa: Progress, Challenges, and Prospects

Detection and attribution of climate change impacts in Africa

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Abstract

The rising magnitude, intensity, and frequency of extreme rainfall events, including floods and droughts in various monsoon regions, have impacted the livelihoods of more than two-thirds of the global population (Nicholson et al., 2022; Biasutti, 2019; Hwang et al., 2013). In Africa, the impact of these extremes is compounded by high poverty levels in many countries, exacerbating the vulnerability to climate change extremes and posing significant challenges for adaptation and resilience efforts (IPCC Report, 2022).