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SAWS Climate Services and Infrastructure

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The South African Weather Service (SAWS) is a key part of the country's weather system. SAWS runs a complex system of tools to observe weather. This includes manual weather stations, automatic rain measuring stations, automatic weather stations, weather radars, a network that measures sunlight, and a system to detect lightning. These systems give important information right away for predicting the weather and studying the climate. SAWS uses advanced computer models to create detailed weather and ocean forecasts. These models are important for predicting extreme weather events like cyclones and coastal storms, which can seriously affect communities and businesses. The SAWS climate infrastructure is a changing system that supports the country's work to fight against and adjust to climate change. South Africa is improving its ability to watch for, predict, and react to climate-related problems by using new technologies, strong research efforts, and working with internal and international communities.

Student or Postdoc?

Email address

Co-Authors

CHPC User

CHPC Research Programme

Workshop Duration

Primary author: MAHLOBO*, Dawn (South African Weather Service)

Presenter: MAHLOBO*, Dawn (South African Weather Service)

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