

# AMMA-2050 bias-corrected dataset

## General information

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Dataset name: AMMA-2050 bias-corrected dataset  
Created on: 2018-04-04  
Useful in the framework of: AMMA > AMMA-Impacts

### Contact(s)

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## Model information

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Model: CMIP5 AFRICA  
Simulation: Historical, RCP2.6, RCP4.5, RCP8.5

## Data description

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### Model / simulation description

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AMMA-2050 bias-corrected dataset is a new dataset of bias-corrected CMIP5 global climate model (GCM) daily data over Africa. This dataset was obtained using the cumulative distribution function transform (CDF-t) method over Africa. CDF-t has been applied over the period 1950-2099 combining Historical runs and climate change scenarios for seven variables: Near-Surface Specific Humidity, precipitation, mean near-surface air temperature, near-surface maximum air temperature, near-surface minimum air temperature, surface downwelling shortwave radiation, and wind speed, which are critical variables for agricultural purposes. More details can be found in the attached document.

## Parameters

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### Near-Surface Specific Humidity

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Parameter name: Near-Surface Specific Humidity  
Parameter keyword: Atmosphere  
Unit: kg / kg

## Precipitation Rate

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Parameter keyword: Atmosphere > Precipitation > Precipitation Rate  
Unit: kg m<sup>-1</sup> s<sup>-2</sup>

## Shortwave Radiation

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Parameter keyword: Atmosphere > Atmospheric Radiation > Shortwave Radiation  
Unit: Watt per square meter - W.m<sup>-2</sup>

## Surface Air Temperature

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Parameter keyword: Atmosphere > Atmospheric Temperature > Surface Air Temperature  
Unit: Kelvin - K

## Maximum/Minimum Temperature

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Parameter keyword: Atmosphere > Atmospheric Temperature > Maximum/Minimum Temperature  
Unit: Kelvin - K

## Wind Speed

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Parameter keyword: Atmosphere > Atmospheric Winds > Wind Speed  
Unit: meter per second - m/s

## Coverage

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### Temporal coverage

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Date begin (yyyy-mm-jj): 1950-01-01  
Date end (yyyy-mm-jj): 2099-12-31

### Geographic coverage

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Area name: CMIP5

### Data resolution

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Latitude resolution: 160  
Longitude resolution: 150

## Data use information

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Use constraints: For the terms of use of this dataset, user must read AMMA-2050 bias-corrected data description file.  
Data policy: AMMA-2050  
Original data format(s): NetCDF