

AMMA-2050 bias-corrected dataset

General information

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

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

Data description

Model / simulation description

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

Near-Surface Specific Humidity

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

Precipitation Rate

Parameter keyword: Atmosphere > Precipitation > Precipitation Rate
Unit: kg m⁻¹ s⁻²

Shortwave Radiation

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

Surface Temperature

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

Maximum/Minimum Temperature

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

Wind Speed

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

Coverage

Temporal coverage

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

Geographic coverage

Area name: CMIP5

Data resolution

Latitude resolution: 160
Longitude resolution: 150

Data use information

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