

## README file for AMMA-2050 bias-corrected data

Version : 20<sup>th</sup> March 2018

### Latest news :

- 6<sup>th</sup> Mar. - 18<sup>th</sup> Mar. 2018      Rewriting metadata for all netcdf data file including bias-corrected data with WFDEI and EWEMBI.
- 11<sup>th</sup> Feb.- 31<sup>st</sup> Feb. 2018      New release of bias-corrected data using EWEMBI as reference data.
- 5<sup>th</sup> Feb. - 10<sup>th</sup> Feb. 2018      Rewriting time record dimensions in all netcdf files.
- 1<sup>st</sup> Jan. - 31<sup>st</sup> Feb. 2017      The duplicate time records have been removed for all bias-corrected data.
- 10<sup>th</sup> Dec. 2016                  First release of AMMA-2050 bias-corrected data using WFDEI as reference data.

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### Data archivage :

AMMA-2050 bias-corrected data access is done according to the following tree structure: BC\_<reference dataset>/BC\_<grid size>/<model>/<simulation>/.

The files in this directory are named according to the CMIP5 syntax (see CMIP5 data reference syntax DRS, Taylor et al (2012)):

<variable name>\_<reference dataset>\_<calibration period>\_<grid size>\_<frequency>\_<model>\_<domain>\_<experiment>\_<ensemble member>\_full.nc.

- « <reference dataset> » stand for « WFDEI » or « EWEMBI » ;
- « <calibration period> » stand for « 1979-2013 » ;
- « <grid size> » stand for « 0.5x0.5 » ;
- « <domain> » stand for « africa ».

## Comparison of the two versions of bias-corrected dataset :

|                     |   |   |
|---------------------|---|---|
| Version :           | <b>BC_WFDEI</b>                               | <b>BC_EWEMBI</b>                              |
| Reference dataset : | WFDEI   | EWEMBI  |
| Coverage :          | All Africa domain<br>excluding ocean          | All Africa domain<br>including ocean          |
| Format :            | Grid point (150x160),<br>daily data, NetCDF 4 | Grid point (150x160),<br>daily data, NetCDF 4 |

## List of variables :

| Variable name | Variable description                       | Units               |
|---------------|--|---------------------|
| huss          | Near-surface Specific Humidity             | kg/kg               |
| pr            | Precipitation                              | Kg/m <sup>2</sup> s |
| rsds          | Surface Downwelling Shortwave Radiation    | W/m <sup>2</sup>    |
| sfcWind       | Near-surface Wind speed                    | m/s                 |
| tas           | Near-surface Air Temperature               | K                   |
| tasmax        | Daily Maximum Near-surface Air Temperature | K                   |
| tasmin        | Daily Minimum Near-surface Air Temperature | K                   |

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