JRC Dataset

Bias corrected high resolution temperature and precipitation projection for Europe in daily temporal resolution from the DMI HIRHAM5 regional climate model driven by boundary conditions from the BCM global circulation model according to SRES A1B scenario, 1961-2099 (ENSEMBLES).

Description:

Daily values of mean, minimum, maximum temperature and total precipitation from the DMI HIRHAM-BCM transient climate change simulation for the period 1961-2099 have been corrected for biases according to Dosio and Paruolo, 2011: Bias correction of the ENSEMBLES high-resolution climate change projections for use by impact models: Evaluation on the present climate, J. Geophys. Res., 116, D16106, DOI: 10.1029/2011JD015934. These data have been produced from a transient climate change simulation for the period 1951-2099 driven by the coupled global model BCM of the Norwegian Bjerknes Centre according to the SRES A1B marker scenario. 121 different meteorological fields are stored in the database from this simulation; of these, 7 are saved 4 times daily, 4 are saved twice daily, and the rest is saved once daily. This simulation has been produced as part of Research Theme 3 (RT3) of the EU FP6 project ENSEMBLES (http://ensemblesrt3.dmi.dk/). Information on the simulations can be found at http://ensemblesrt3.dmi.dk/, in the special issue 44 of Climate Research (2010), or in the ENSEMBLES final report available at http://http://ensembles-eu.metoffice.com/docs/Ensembles_final_report_Nov09.pdf. Lineage: Simulation data from a regional numerical climate model with lateral and sea-surface conditions determined from the output of the BCM coupled global model. The simulation was produced at the Danish Meteorological Institute (http://www.dmi.dk) with the regional climate model HIRHAM5. (UUID: def4a1d1-5d70-11e1-9105-0017085a97ab). Daily values of mean, minimum, maximum temperature and total precipitation from this simulation have been corrected for biases according to Dosio and Paruolo, 2011: Bias correction of the ENSEMBLES high-resolution climate change projections for use by impact models: Evaluation on the present climate, J. Geophys. Res., 116, D16106, DOI: 10.1029/2011JD015934

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Keywords:

air temperature, atmosphere, atmospheric precipitation, climatic alteration, climatic change, climatic experiment, climatology, greenhouse gas, man-made climate change, meteorological geographical features, meteorological parameter, meteorology

Related resources:

Data access

BIAS CORRECTED ENSEMBLES RT3 DMI-HIRHAM5 BCM A1B archive

Additional (to the "Europa legal Notice") use requirements: (i) Users should submit a copy of their results based on these data to the contact point of the dataset. (ii) Users should help improve the quality of the data and its delivery by giving feedback where appropriate. (iii) All data use, however small, derived or embedded, should be acknowledged by the contact point.

https://cidportal.jrc.ec.europa.eu/ftp/jrc-opendata/ENSEMBLES-BC/DMI-HIRHAM5_A1B_BCM

Publications

Bias correction of the ENSEMBLES high-resolution climate change projections for use by impact models: Evaluation on the present climate

Dosio A, Paruolo P. Bias correction of the ENSEMBLES high-resolution climate change projections for use by impact models: Evaluation on the present climate. JOURNAL OF GEOPHYSICAL RESEARCH-ATMOSPHERES 116 (D16106); 2011.

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DOI:10.1029/2011JD015934

Bias Correction of the ENSEMBLES High Resolution Climate Change Projections for Use by Impact Models: Analysis of the Climate Change Signal

Dosio A, Paruolo P, Rojas Mujica R. Bias Correction of the ENSEMBLES High Resolution Climate Change Projections for Use by Impact Models: Analysis of the Climate Change Signal. JOURNAL OF GEOPHYSICAL RESEARCH-ATMOSPHERES 117; 2012. p. D17110. JRC71978

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