

Statistical Downscaling And Bias Correction For

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Statistical Downscaling And Bias Correction

In this study, using a modification of the BCSD approach, which is referred to as the Statistical Downscaling and Bias Correction (SDBC) method hereafter, we create a dataset of daily maximum and minimum temperature and daily precipitation for direct use in ecological or other impact assessments of climate change for the New England region, at a spatial resolution of $1/8^\circ \times 1/8^\circ$ for the future period of 2046–2065.

Statistical downscaling and bias correction of climate ...

Statistical downscaling and bias correction are becoming standard tools in climate impact studies. This book provides a comprehensive reference to widely-used approaches, and additionally covers the relevant user context and technical background, as well as a synthesis and guidelines for practitioners.

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Statistical downscaling and bias correction climate ...

Professor Fulco Ludwig (Wageningen University) describes the theory of what bias correction/adjustment is, and how it relates to statistical downscaling.

What is bias correction/adjustment and statistical downscaling?

'Bias correction' is the most important step in statistical downscaling as the success of downscaling is dependent on the accuracy of the results projected by GCM. It is evident from the results that the physics behind the variations in temperature is well understood by the GCMs and hence able to project the same.

Statistical Downscaling and Bias Correction for ...

Bias correction methods usually employ transfer (or correction) functions that transform model data to corrected data set with fewer statistical biases. Different bias correction methods have been developed and used in the past decades, such as linear scaling correction (Lenderink et al., 2007), power transformation (Leander & Buishand, 2007 ...

Statistical Bias Correction for Simulated Wind Speeds Over ...

If, however, the bias correction also attempts to downscale [i.e., if the correction is against station (or very-high-resolution

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gridded) data], deterministic variance correction and quantile mapping approaches are not feasible. In general, the spatiotemporal variability at the gridbox scale is much smoother than at the local scale.

Bias Correction, Quantile Mapping, and Downscaling ...

With the aim of combining their respective advantages we combine a statistical bias correction and a stochastic downscaling method. Thereby we separate bias correction from downscaling by inserting a gridded observational dataset as a reference between these two steps.

A combined statistical bias correction and stochastic ...

A Review of Downscaling Methods for Climate Change Projections v GLOSSARY Algorithm: Computational step-by-step, problem-solving procedure. Bias correction: Adjustment of modeled values to reflect the observed distribution and statistics. Change factor (CF): Ratio between values of current climate and future GCM simulations.

A REVIEW OF DOWNSCALING METHODS FOR CLIMATE CHANGE PROJECTIONS

Statistical downscaling and bias correction are becoming standard tools in climate impact studies. This book provides a comprehensive reference to widely-used approaches, and additionally covers the relevant user context and technical background, as well as a synthesis and guidelines for practitioners.

PDF 2018 - Cambridge - ISBN-10: 1107066050 - Statistical ...

Maraun, D. and Widmann, M., "Statistical Downscaling and Bias Correction for Climate Research", Cambridge University Press, Cambridge, 2018. von Storch, H., Zorita, E., Cubasch, U., 1993. Downscaling of global climate change estimates to regional scales: an application to Iberian rainfall in wintertime.

Downscaling - Wikipedia

There is a numerous number of statistical downscaling methods. One of the most popular and common of them is Bias Correction

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(BC) that has been applied extensively for impact assessment and...

Bias Correction on GCMs Data

There is a numerous number of statistical downscaling methods. One of the most popular and common of them is Bias Correction (BC) that has been applied extensively for impact assessment and employed in climate change studies in all over the world (Wood et al., 2002; Payne et al. 2004).

Statistical Downscaling General Circulation Models

In contrast, statistical downscaling is computationally efficient and can be suitably used to perform the spatial downscaling and bias correction for a large amount of GCM outputs, and has become a commonly used tool in impact studies.

Global and Planetary Change - NASA

Producing reliable estimates of changes in precipitation at local and regional scales remains an important challenge in climate science. Statistical downscaling methods are often

Downscaling of GCM-Simulated Precipitation Using Model

...

Downscaling is a common task in climate science and meteorology in which the goal is to use coarse scale, spatio-temporal data to infer values at finer scales. Statistical downscaling aims to approximate this task using statistical patterns gleaned from an existing dataset of downscaled values, often obtained from observations or physical models. In this work, we investigate the application of ...

ClimAlign: Unsupervised statistical downscaling of climate ...

The task involved various steps such as statistical and dynamic downscaling of MRI-AGCM 3.2S, bias correction, statistical analysis of present and future climate, and assessment of flood and drought risk in the target river basins, which were those of Indus (Pakistan), Chao Phraya (Thailand), Solo (Indonesia), Mekong (Cambodia), and Pampanga ...

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Program for Risk Information on Climate Change (SOUSEI

...

comparison with the direct statistical downscaling approach, a dynamical downscaling approach using a regional climate model (RCM) was also used to derive hydrologic model forcings for 20-year subsets from the PCM control climate (1995–2015) scenario and from the three BAU climate (2040–2060) projections.

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