

An aerial photograph of a mountain range. The foreground shows dark, rocky terrain. In the middle ground, there are several mountain peaks, some with patches of snow or light-colored rock. In the background, a wide valley opens up, leading to a large body of water, likely a lake or a wide river, under a hazy sky.

STATISTICAL
DOWNSCALING
AND BIAS
CORRECTION
**FOR CLIMATE
RESEARCH**

Douglas Maraun and Martin Widmann

Statistical Downscaling And Bias Correction For

Jacob Jimmie Coburn



Statistical Downscaling And Bias Correction For:

Statistical Downscaling and Bias Correction for Climate Research Douglas Maraun, Martin Widmann, 2018-01-18

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. It presents the main approaches including statistical downscaling, bias correction, and weather generators along with their underlying assumptions, skill, and limitations. Relevant background information on user needs and observational and climate model uncertainties is complemented by concise introductions to the most important concepts in statistical and dynamical modelling. A substantial part is dedicated to the evaluation of regional climate projections and their value in different user contexts. Detailed guidelines for the application of downscaling and the use of downscaled information in practice complete the volume. Its modular approach makes the book accessible for developers and practitioners, graduate students, and experienced researchers, as well as impact modellers and decision makers.

Downscaling Techniques for High-Resolution Climate Projections Rao Kotamarthi, Katharine Hayhoe, Donald Wuebbles, Linda O. Mearns, Jennifer Jacobs, Jennifer Jurado, 2021-02-11. A practical guide to understanding and producing downscaled climate data for researchers, graduate students, policy makers, and practitioners.

Bias Correction and Downscaling of Climate Model Outputs Required for Impact Assessments of Climate Change in the U.S. Northeast Kazi F Ahmed, 2011. Global Climate Models (GCMs) are the typical sources of future climate data required for impact assessments of climate change. However, GCM outputs are related to model-related uncertainties and involve a great deal of biases. Bias correction of model outputs is therefore necessary before their use in impact studies. The coarse resolution of GCM simulations is another hindrance to their direct use in fine-scale impact analysis of climate change. Although downscaling of GCM outputs can be performed by dynamical downscaling using Regional Climate Models (RCMs), it requires large computational capacity. When daily climate data from multiple GCMs are required to be downscaled, dynamical downscaling may not be a feasible option. Statistical downscaling, in contrast, can be efficiently used to downscale a large number of GCM outputs at a fine temporal and spatial scale. This study performs the bias correction and statistical downscaling of daily maximum and minimum temperature and daily precipitation data from six GCM and four RCM simulations for the northeast United States (US). The spatial resolution of the data set is 1.8 x 1.8 and it spans from 2046 to 2065. This fine-scale daily climate data set, which has been created using Bias Correction and Spatial Downscaling (BCSD) approach, can be directly used in regional impact studies for the northeast US. Using both raw and bias-corrected daily precipitation data from two GCMs and two RCMs, one extreme precipitation index has been analyzed for the observed climate. The comparison between the results demonstrates that bias correction is important not only for GCM outputs but also for RCM outputs. When the same analysis has been performed for future climate, bias correction has led to a larger level of

agreements among the models in predicting the magnitude and capturing the spatial trend for the extreme precipitation index. Moreover, five extreme climate indices have been analyzed at 1.8 spatial resolution for future climate using the bias-corrected and statically downscaled data from multiple GCMs and RCMs. The incorporation of dynamical downscaling as an intermediate step has not led to any considerable changes from the results of statistical downscaling. Statistical downscaling with bias correction has been sufficient to create a fine scale daily climate data set to be directly used in impact studies. The future means of five extreme climate indices which have been calculated from GCM and RCM ensembles have been compared to their observed means. The decrease in total number of frost days because of the future warming will be similar over the entire northeast region. The earlier arrival of spring will lead to an extended growing season and the magnitude of the changes will be larger in the coastal area. The comparison of precipitation extreme indices indicates an increase in the heavy precipitation events in future climate for most of the region.

Statistical Downscaling for the Northern Great Plains Jacob Jimmie Coburn, 2015
North Sea Region Climate Change Assessment Markus Quante, Franciscus Colijn, 2016-08-31 This book offers an up to date review of our current understanding of climate change in the North Sea and adjacent areas as well as its impact on ecosystems and socio-economic sectors. It provides a detailed assessment of climate change based on published scientific work compiled by independent international experts from climate-related disciplines such as oceanography, atmospheric sciences, marine and terrestrial ecology using a regional evaluation and review process similar to that of the Intergovernmental Panel on Climate Change (IPCC). It provides a comprehensive overview of all aspects of our changing climate, discussing a wide range of topics including past, current and future climate change and climate-related changes in marine, terrestrial and freshwater ecosystems. It also explores the impact of climate change on socio-economic sectors such as fisheries, agriculture, coastal zone management, coastal protection, urban climate, recreation, tourism, offshore activities, energy and air pollution.

Intelligence Systems for Earth, Environmental and Planetary Sciences Hossein Bonakdari, Silvio José Gumiere, 2024-07-30 Intelligence Systems for Earth, Environmental and Planetary Sciences: Methods, Models and Applications provides cutting edge theory and applications of modern day artificial intelligence and data science in the Earth, environment and planetary science fields. The book is divided into three sections: i) Methods covering the fundamentals of intelligence systems along with an introduction to the preparation of datasets; ii) Models detailing model development, data assimilation and techniques in each field; and iii) Applications presenting case studies of artificial intelligence and data science solutions to Earth, environmental and planetary sciences problems as well as future perspectives. Intelligence Systems for Earth, Environmental and Planetary Sciences will be of interest to students, academics and postgraduate professionals in the field of applied sciences, Earth, environmental and planetary sciences and would also serve as an excellent companion resource to courses studying artificial intelligence applications for theoretical and practical studies in Earth, environmental and planetary sciences. Facilitates the application of artificial intelligence and data science.

systems to create comprehensive methodologies for analyzing processing predicting and management strategies in the fields of Earth environment and planetary science Developed with an interdisciplinary framework with an aim to promote artificial intelligence models for real time Earth systems Includes a section on case studies of artificial intelligence and data science solutions to Earth environmental and planetary sciences problems as well as future perspectives

Second Assessment of Climate Change for the Baltic Sea Basin The BACC II Author Team,2015-04-03 This book is an update of the first BACC assessment published in 2008 It offers new and updated scientific findings in regional climate research for the Baltic Sea basin These include climate changes since the last glaciation approx 12 000 years ago changes in the recent past the last 200 years climate projections up until 2100 using state of the art regional climate models and an assessment of climate change impacts on terrestrial freshwater and marine ecosystems There are dedicated new chapters on sea level rise coastal erosion and impacts on urban areas A new set of chapters deals with possible causes of regional climate change along with the global effects of increased greenhouse gas concentrations namely atmospheric aerosols and land cover change The evidence collected and presented in this book shows that the regional climate has already started to change and this is expected to continue Projections of potential future climates show that the region will probably become considerably warmer and wetter in some parts but dryer in others Terrestrial and aquatic ecosystems have already shown adjustments to increased temperatures and are expected to undergo further changes in the near future The BACC II Author Team consists of 141 scientists from 12 countries covering various disciplines related to climate research and related impacts BACC II is a project of the Baltic Earth research network and contributes to the World Climate Research Programme

Hydrological Drought Lena M. Tallaksen,Henny A.J. van Lanen,2023-09-17 Hydrological Drought Processes and Estimation Methods for Streamflow and Groundwater Second Edition provides a comprehensive review of processes and estimation methods for streamflow and groundwater drought It includes a qualitative conceptual understanding of drought features and processes a detailed presentation of estimation methods and tools practical examples and impacts relevant for operational practice The drought phenomenon and its diversity across the world are illustrated using a global set of daily streamflow series whereas regional and local aspects of drought are studied using a combination of hydrological time series and catchment information Hydrological Drought Processes and Estimation Methods for Streamflow and Groundwater Second Edition concludes with human impacts including climate change impacts on drought drought forecasting and early warning and examples of procedures on how to manage water during drought The majority of the examples are taken from regions where the rivers run most of the year but not exclusively The material presented ranges from well established knowledge and analysing methods to recent developments in drought research Its nature varies accordingly from a more traditional textbook and clear overview to that of a research paper which introduces recent approaches and methodologies for drought analysis Includes a number of innovative tools self guided tours worked examples and software to support both the understanding and teaching

of different methods for evaluating drought severity human impacts ecological effects of drought and regional methods that enable estimation Offers applications demonstrations using a comprehensive database of streamflow and thematic data from a large number of national and international agencies which illustrate how data are used when evaluating drought severity Presents the state of the art of hydrological drought including well established knowledge as well as recent developments in drought research

Machine Learning and Data Mining Approaches to Climate Science Valliappa Lakshmanan, Eric Gilleland, Amy McGovern, Martin Tingley, 2015-06-30 This book presents innovative work in Climate Informatics a new field that reflects the application of data mining methods to climate science and shows where this new and fast growing field is headed Given its interdisciplinary nature Climate Informatics offers insights tools and methods that are increasingly needed in order to understand the climate system an aspect which in turn has become crucial because of the threat of climate change There has been a veritable explosion in the amount of data produced by satellites environmental sensors and climate models that monitor measure and forecast the earth system In order to meaningfully pursue knowledge discovery on the basis of such voluminous and diverse datasets it is necessary to apply machine learning methods and Climate Informatics lies at the intersection of machine learning and climate science This book grew out of the fourth workshop on Climate Informatics held in Boulder Colorado in Sep 2014

High-Resolution Downscaling and Bias-Correction of Temperature and Precipitation Maike Holthuijzen, 2022 High resolution bias corrected climate data is necessary for climate impact studies and modeling efforts at local scales General circulation models GCMs provide important information about historical and future larger scale climate trends but their spatial resolution is too coarse to investigate localized effects of climate processes Additionally raw GCM output is characterized by some degree of bias Two post processing procedures known as downscaling and bias correction are typically applied to raw climate model output prior to its use in further modeling applications Downscaling is the process in which data at a coarse spatial scale is transformed to a fine spatial scale Bias correction refers to a collection of methods in which climate model output is adjusted such that its statistical properties e g mean variance and potentially higher moments resemble those of observations in a common climatological period Bias correction is a challenge due to relatively short calibration and long future time periods and potential spatial misalignment issues between gridded climate model output and observed data Issues that warrant further research are 1 spatially coherent bias correction 2 processing of extremes 3 temporally coherent bias correction and 4 balancing the bias correction of future model output with the preservation of the climate change signal Performing spatially coherent bias correction is particularly difficult as model and observed data must be present in the same location where bias correction is applied Depending on the type of observed data used this may not be the case Extremes are challenging to represent accurately during bias correction because extreme values in both observed and model data are highly variable limited and there is greater uncertainty regarding their correction Finally very few bias correction methods explicitly correct temporal dependence structures of

model output However it is important that the temporal dependence of model data resembles that of observed data as climate variability is closely linked to temporal dependence In this body of work I developed methodological workflows to generate high resolution climate data products in which 1 bias correction is carried out in a spatially coherent manner and 2 precipitation extremes are accurately represented I also created a new two step bias correction approach in which the temporal dependence and distributional properties of model output are corrected This method allows for sensible bias correction in both historical and future time periods and minimizes distortion to the future climate change signal

Handbook of Applied Hydrology, Second Edition Vijay P. Singh, 2016-03-07 Fully Updated Hydrology Principles Methods and Applications Thoroughly revised for the first time in 50 years this industry standard resource features chapter contributions from a who s who of international hydrology experts Compiled by a colleague of the late Dr Chow Chow s Handbook of Applied Hydrology Second Edition covers scientific and engineering fundamentals and presents all new methods processes and technologies Complete details are provided for the full range of ecosystems and models Advanced chapters look to the future of hydrology including climate change impacts extraterrestrial water social hydrology and water security Chow s Handbook of Applied Hydrology Second Edition covers The Fundamentals of Hydrology Data Collection and Processing Hydrology Methods Hydrologic Processes and Modeling Sediment and Pollutant Transport Hydrometeorologic and Hydrologic Extremes Systems Hydrology Hydrology of Large River and Lake Basins Applications and Design The Future of Hydrology

Proceedings of Third International Conference on Addressing Climate Change for Sustainable Development Through Up-scaling Renewable Energy Technologies : October 12-14, 2011, Kathmandu, Nepal Tri Ratna Bajracharya, 2011 *New Frontiers in Stress Management for Durable Agriculture* Amitava Rakshit, Harikesh Bahadur Singh, Anand Kumar Singh, Uma Shankar Singh, Leonardo Fraceto, 2020-03-23 Using accessible farming practices to meet the growing demands on agriculture is likely to result in more intense competition for natural resources increased greenhouse gas emissions and further deforestation and land degradation which will in turn produce additional stress in the soil water plant animal continuum Stress refers to any unfavorable force or condition that inhibits customary functioning in plants Concurrent manifestations of different stresses biotic and abiotic are very frequent in the environment of plants which consequently reduces yield Better understanding stress not only changes our perspective on the current environment but can also bring a wealth of benefits like improving sustainable agriculture and human beings living standards Innovative systems are called for that protect and enhance the natural resource base while increasing productivity via holistic approaches such as agroecology agro forestry climate smart agriculture and conservation agriculture which also incorporate indigenous and traditional knowledge The book *New Frontiers in Stress Management for Durable Agriculture* details the current state of knowledge and highlights scientific advances concerning novel aspects of plant biology research on stress biotic and abiotic stress responses as well as emergent amelioration and reclamation technologies to restore normal functioning in agroecology

An Analysis of Simulated California Climate Using Multiple Dynamical and Statistical Techniques ,2009
Using Future Climate Projections to Support Water Resources Decision Making in California ,2009

Quantification and Reduction of Predictive Uncertainty for Sustainable Water Resources Management Eva

Boegh, International Association of Hydrological Sciences, 2007 The contributions in this volume consider the uncertainties in the end to end prediction of hydrological variables beginning with the atmospheric driving and ending with the hydrological calculations for scientifically sound decisions in sustainable water management *TERI Information Digest on Energy and Environment* ,2004 *Current and Future Impacts of Extreme Events in California* ,2009 **Australian Meteorological Magazine** ,2008 **Strategic Issues Facing Transportation** Michael D. Meyer, 2014 Two spreadsheets that illustrate examples of the benefit cost analysis of adaptation strategies discussed in Appendix B of Part I of NCHRP Report 750 Volume 2 These three items are available on a CD ROM that is included with a print version of the report The CD ROM is also available for download from TRB s website as an ISO image Links to the ISO image and instructions for burning a CD ROM from an ISO image are provided below Help on Burning an ISO CD ROM Image Download the ISO CD ROM Image Warning This is a large file and may take some time to download using a high speed connection NCHRP Report 750 Volume 2 is the second in a series of reports being produced by NCHRP Project 20 83 Long Range Strategic Issues Facing the Transportation Industry Major trends affecting the future of the United States and the world will dramatically reshape transportation priorities and needs

Adopting the Tune of Appearance: An Mental Symphony within **Statistical Downscaling And Bias Correction For**

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Table of Contents Statistical Downscaling And Bias Correction For

1. Understanding the eBook Statistical Downscaling And Bias Correction For
 - The Rise of Digital Reading Statistical Downscaling And Bias Correction For
 - Advantages of eBooks Over Traditional Books
2. Identifying Statistical Downscaling And Bias Correction For
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Statistical Downscaling And Bias Correction For
 - User-Friendly Interface
4. Exploring eBook Recommendations from Statistical Downscaling And Bias Correction For

- Personalized Recommendations
 - Statistical Downscaling And Bias Correction For User Reviews and Ratings
 - Statistical Downscaling And Bias Correction For and Bestseller Lists
5. Accessing Statistical Downscaling And Bias Correction For Free and Paid eBooks
 - Statistical Downscaling And Bias Correction For Public Domain eBooks
 - Statistical Downscaling And Bias Correction For eBook Subscription Services
 - Statistical Downscaling And Bias Correction For Budget-Friendly Options
 6. Navigating Statistical Downscaling And Bias Correction For eBook Formats
 - ePub, PDF, MOBI, and More
 - Statistical Downscaling And Bias Correction For Compatibility with Devices
 - Statistical Downscaling And Bias Correction For Enhanced eBook Features
 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Statistical Downscaling And Bias Correction For
 - Highlighting and Note-Taking Statistical Downscaling And Bias Correction For
 - Interactive Elements Statistical Downscaling And Bias Correction For
 8. Staying Engaged with Statistical Downscaling And Bias Correction For
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Statistical Downscaling And Bias Correction For
 9. Balancing eBooks and Physical Books Statistical Downscaling And Bias Correction For
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Statistical Downscaling And Bias Correction For
 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
 11. Cultivating a Reading Routine Statistical Downscaling And Bias Correction For
 - Setting Reading Goals Statistical Downscaling And Bias Correction For
 - Carving Out Dedicated Reading Time
 12. Sourcing Reliable Information of Statistical Downscaling And Bias Correction For

- Fact-Checking eBook Content of Statistical Downscaling And Bias Correction For
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
- Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
- Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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