

Dynamical downscaling of regional climate: A review of methods and limitations

Zhongfeng XU^{1*}, Ying HAN² & Zongliang YANG^{1,2}

¹ CAS Key Laboratory of Regional Climate-Environment for Temperate East Asia, Institute of Atmospheric Physics, Chinese Academy of Sciences, Beijing 100029, China;

² Department of Geological Sciences, Jackson School of Geosciences, The University of Texas at Austin, TX 78703, USA

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Abstract The traditional dynamical downscaling (TDD) method employs continuous integration of regional climate models (RCMs) with the general circulation model (GCM) providing the initial and lateral boundary conditions. Dynamical downscaling simulations are constrained by physical principles and can generate a full set of climate information, providing one of the important approaches to projecting fine spatial-scale future climate information. However, the systematic biases of climate models often degrade the TDD simulations and hinder the application of dynamical downscaling in the climate-change related studies. New methods developed over past decades improve the performance of dynamical downscaling simulations. These methods can be divided into four groups: the TDD method, the pseudo global warming method, dynamical downscaling with GCM bias corrections, and dynamical downscaling with both GCM and RCM bias corrections. These dynamical downscaling methods are reviewed and compared in this paper. The merits and limitations of each dynamical downscaling method are also discussed. In addition, the challenges and potential directions in progressing dynamical downscaling methods are stated.

Keywords Global circulation model, Bias correction, Regional climate model, Downscaling, Projection of regional climate

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1. Introduction

Climate change has far-reaching influence on natural ecosystems, the environment, and social economies. Projecting future climate change, especially regional climate change, is of great importance for policy-making. Compared with previous Intergovernmental Panel on Climate Change (IPCC) assessment reports, the fifth report highlights the importance of regional scale climate change (IPCC, 2013). The climate and earth system models with complex biogeochemical processes are the primary tools for projecting future climate (Zeng et al., 2008; Prinn, 2013; IPCC, 2013). Currently, the typical horizontal resolution of global cir-

ulation models (GCM) is 100–300 km. The coarse GCMs cannot fully resolve the fine-scale orography, land cover, and dynamics of the atmosphere, hindering their ability to simulate extreme weather and climate events (Zhao et al., 2014). However, fine-scale weather and climate information is urgently needed in many research areas, such as meteorology, hydrology, agriculture, ecology, wind power, and the atmospheric environment. Therefore, the demand of downscaling is very extensive. The so-called “downscaling” simply refers to the use of statistical or dynamical approaches to obtain regional or local scale climate information from the GCM output or reanalysis data (von Storch et al., 1993; Lin et al., 2012).

The commonly used downscaling methods include statistical, dynamical, and hybrid dynamical-statistical down-

* Corresponding author (email: xuzf@ipa.ac.cn)

Review Of The Structural Dynam Proc Volume 2

A. Naess,S. Krenk



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Applied Mechanics Reviews ,1969 *Mechanical Behaviour of Engineering Materials* Y.M. Haddad,2013-06-29 This monograph consists of two volumes and provides a unified comprehensive presentation of the important topics pertaining to the understanding and determination of the mechanical behaviour of engineering materials under different regimes of loading The large subject area is separated into eighteen chapters and four appendices all self contained which give a complete picture and allow a thorough understanding of the current status and future direction of individual topics Volume I contains eight chapters and three appendices and concerns itself with the basic concepts pertaining to the entire monograph together with the response behaviour of engineering materials under static and quasi static loading Thus Volume I is dedicated to the introduction the basic concepts and principles of the mechanical response of engineering materials together with the relevant analysis of elastic elastic plastic and viscoelastic behaviour Volume II consists of ten chapters and one appendix and concerns itself with the mechanical behaviour of various classes of materials under dynamic loading together with the effects of local and microstructural phenomena on the response behaviour of the material Volume II also contains selected topics concerning intelligent material systems and pattern recognition and classification methodology for the characterization of material response states The monograph contains a large number of illustrations numerical examples and solved problems The majority of chapters also contain a large number of review problems to challenge the reader The monograph can be used as a textbook in science and engineering for third and fourth undergraduate levels as well as for the graduate levels It is also a definitive reference work for scientists and engineers involved in the production processing and applications of engineering materials as well as for other professionals who are involved in the engineering design process

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Simone Barani,Aybige Akinci,Karin Sesetyan,Dario Albarello,Philippe Gueguen,Stefano Parolai,Roberto Paolucci,Dimitris Pitilakis,2022-11-30 **NASA Scientific and Technical Publications** ,1987 **IUTAM Symposium on Advances in Nonlinear Stochastic Mechanics** A. Naess,S. Krenk,2012-12-06 The IUTAM Symposium on Advances in Nonlinear Stochastic Mechanics held in Trondheim July 3 7 1995 was the eighth of a series of IUTAM sponsored symposia which focus on the application of stochastic methods in mechanics The previous meetings took place in Coventry UK 1972 Southampton UK 1976 FrankfurtjOder Germany 1982 Stockholm Sweden 1984 Innsbruckjlgls Austria 1987 Turin Italy 1991 and San Antonio Texas 1993 The symposium provided an extraordinary opportunity for scholars to meet and discuss recent advances in stochastic mechanics The participants represented a wide range of expertise from pure theoreticians to people primarily oriented toward applications A significant achievement of the symposium was the very extensive discussions taking place over the whole range from highly theoretical questions to practical engineering applications Several presentations also clearly demonstrated the substantial progress that has been achieved in recent years in terms of developing and implement

ing stochastic analysis techniques for mechanical engineering systems This aspect was further underpinned by specially invited extended lectures on computational stochastic mechanics engineering applications of stochastic mechanics and nonlinear active control The symposium also reflected the very active and high quality research taking place in the field of stochastic stability Ten presentations were given on this topic of a total of 47 papers A main conclusion that can be drawn from the proceedings of this symposium is that stochastic mechanics as a subject has reached great depth and width in both methodology and applicability

Tension Structures Wanda J. Lewis, 2003 The tension structures discussed in this book are predominantly roofing forms created from pre stressed cable nets cable trusses and continuous membranes fabric structures A unique feature in their design is form finding an interactive process of defining the shape of a structure under tension The book discusses the role of stable minimal surfaces minimum energy forms occurring in natural objects such as soap films in finding optimal shapes of membrane and cable structures The discussion of form finding is extended to structural forms whose shape is supposedly known such as suspension bridge cables

Manufacturing Engineering and Materials Science Abhineet Saini, B. S. Pabla, Chander Prakash, Gurmohan Singh, Alokesh Pramanik, 2023-11-15 This book which is part of a two volume handbook set gives a comprehensive description of recent developments in materials science and manufacturing technology aiming primarily at its applications in biomedical science advanced engineering materials conventional non conventional manufacturing techniques sustainable engineering design and related domains Manufacturing Engineering and Materials Science Tools and Applications provides state of the art research conducted in the fields of technological advancements in surface engineering tribology additive manufacturing precision manufacturing electromechanical systems and computer assisted design and manufacturing The book captures emerging areas of materials science and advanced manufacturing engineering and presents the most recent trends in research for emerging researchers field engineers and academic professionals

Dynamic Impact Factors for Bridges David I. McLean, M. Lee Marsh, National Cooperative Highway Research Program, 1998 This synthesis will be of interest to state department of transportation and consulting bridge structural and research engineers The synthesis describes the current state of the practice for determining dynamic impact factors for bridges Information for the synthesis was collected by surveying U S and Canadian transportation agencies and by conducting a literature search using domestic and foreign sources This report of the Transportation Research Board documents relevant background and recent information with regard to vehicular dynamic load effects on bridges It provides details on the basic concepts of bridge dynamics including identification of the main variables affecting bridge dynamic response In addition current code provisions for accounting for vehicular dynamic load effects for new bridge design and load evaluation of existing bridges are reported including a discussion on the background of the provisions Finally a discussion of observed field problems associated with vehicular dynamic load effects as obtained from the survey are included

The 58th Shock and Vibration Symposium, Volume 2, 1988

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