

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

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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; Lim et al., 2012).

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

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