The University of Chicago
Department of Statistics

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ANDREW POPPICK
Department of Statistics
The University of Chicago

Spatial Analysis of Climate Change Projections

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ABSTRACT

We are interested in evaluating climate forecasts from different regional models at a seasonal, local level. We discuss an approach to the problem given by Greasby & Sain (*J. Agric. Biol. Envir. St.* 2011): a multivariate spatial model is used to analyze forecasts from three regional climate models all driven by a common global model, with the spatial component modeled as a first order intrinsic Gaussian Markov random field. The three regional models are compared with each other, with aims to identify locations at risk and to contrast the forecasts given by each model.