The North American Regional Climate Change Assessment Program: Overview and Preliminary Analysis.

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The North American Regional Climate Change Assessment Program (NARCCAP) is facilitating the development of regional climate change scenarios over the United States, northern Mexico, and most of Canada by producing 50-km simulations using multiple regional climate models (RCMs) driven by multiple atmosphere-ocean global climate models (AOGCMs). The systematic combination of 6 RCMs (the Canadian RCM, the NCEP regional spectral model, HadRM3, the NCAR/PSU MM5, RegCM3, and the WRF) with 4 AOGCMs (the Hadley Centre HadCM3, NCAR CCSM 3.0, Canadian CGCM3, and GFDL 2.1) allows for the investigation of uncertainties in regional projections of future climate, development of climate change scenarios for impacts work, and further downscaling over North America. This presentation will provide a brief overview of NARCCAP and show some of the diagnostic work that is being completed in order to establish the basic credibility of the regional simulations; including analysis of 2D near surface fields as well as some of the recently available 3D atmospheric fields. Outcomes from available climate change simulations will also be presented.