



Precipitation intensity changes in regional climate projections for North America

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We have performed an ensemble of regional climate projections for 1950-2099 over the CORDEX North America domain at the CORDEX standard resolution of 50 km. The ensemble uses the regional climate model RegCM4 with a range of model physics options, and several different CMIP5 AOGCMs for initial and boundary conditions. The downscaled results reproduce the observed shift of precipitation intensity toward heavier events in the eastern United States. This shift appears to be a robust feature of climate change in the region, since it is produced for various physics options and driving AOGCMs.