



Application of CORDEX modelling results to the development of climate change adaptation plans for small and medium size cities in Poland

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We will present results from the ClimCities (<http://climcities.ios.edu.pl/>) project initiated in Poland in collaboration with Norway. The objective of the project is to develop climate change adaptation plans for small and medium size cities (50 to 100 thousand inhabitants).

CORDEX models over the EUR11 domain for RCP 4.5, and RCP 8.5 climate scenarios will be used. Statistical downscaling will be based on current climate observations for years 2006-2015. Further, the same functions will be used for temperature and precipitation.

The proposed climate indexes will be calculated for several time horizons up to 2055. We will use temperature and precipitation fields to compute and analyse climate indexes for heat and cold spells, average and extreme precipitation events, as well as an average number of rain days for temperature in -5 to 2.5 °C range.