



Detection of main factors driving precipitation in Poland

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The aim of the paper is detection of main factors driving daily totals of precipitation in Poland. The research will be done on the basis of records of daily precipitation totals from 40 stations in Poland in the period 1951-2013. Among the possible factors the daily mean and maximum temperature from the same stations as well as gridded daily mean temperatures in Europe (EOBS data) will be taken into account. The other factors include circulation indices like the North Atlantic Oscillation, East Atlantic and Scandinavian ones as well as gridded fields of SLP, geopotential of 700 and 500 hPa levels and precipitable water content over Europe and the Northern Atlantic (reanalysis data). The methods used for analysis encompass, correlation analysis, circulation types and CCA technics. The data will be analysed in the separately in each season. This work is supported by grant 2012/05/B/ST10/00945 founded by Polish National Science Centre.