



## Convective Parameterization in RegCM3 vs. RegCM4 for CORDEX Africa

T. Halenka, M. Belda, and J. Miksovsky

Charles University in Prague, Fac. of Math. & Physics, Dept. of Meteorology and Environment Protection, Prague, Czech Republic (tomas.halenka@mff.cuni.cz)

Main purpose of the CORDEX activity is to provide GCM climate change scenarios downscaled by means of RCMs with coverage of all the continents. Primary focus on Africa comes from several reasons, the goal is to concentrate the interest to get significant ensemble of simulations.

In this contribution, a set of simulations for Africa CORDEX domain has been performed using RegCM3 and RegCM4 with convective parameterization tests using Grell, Emanuel, and Kuo schemes. Short experiments without any further significant tuning show the best performance of RegCM3 using Grell parameterization, other two suffering from more significant bias either in temperature or precipitation. Full ERA-interim period simulations using selected settings are validated in more details against new CRU climatology.