Geophysical Research Abstracts
Vol. 15, EGU2013-13391, 2013
EGU General Assembly 2013

RegCM and CLWRF comparison for CORDEX in Europe

Tomas Halenka, Michal Belda, and Jan Karlicky

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

Simulations driven by ERA-interim reanalysis for CORDEX over Europe domains have been performed using RegCM and CLWRF at 50 km resolution. Several settings with different convective and boundary layer parameterizations have been tested to assess the sensitivity of the CLWRF and to get the best performance. However, the results of CLWRF are still significantly biased, with cold and wet bias over all the seasons. Sensitivity to the domain geometry and emissivity is shown for RegCM4 simulations emphasising the necessity of careful model settings. E-OBS data are used for the validation.