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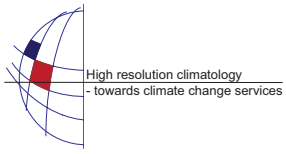

Assessment of regional climate models performance in simulating present-day climate over the area of the Czech Republic

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The new climate change scenarios for the Czech Republic, that are going to be created in the frame of the project VaV SP/1A6/108/07, will be based on the outputs of the regional climate model ALADIN-CLIMATE/CZ (25 km resolution), which is run in the Czech Hydrometeorological Institute (CHMI). Therefore it is necessary to evaluate the model performance in simulating the observed climate characteristics, and to compare its outputs to other available regional climate models. In presented study we show a comparison of monthly mean air temperature, monthly mean relative humidity and monthly precipitation amounts simulated by ALADIN-CLIMATE/CZ to a set of gridded station data in the reference period (1961-1990). Further, we compare ALADIN-CLIMATE/CZ to a suit of regional climate models from the project ENSEMBLES (http://ensembles-eu.metoffice.com).