



INTERKLIM – climate cooperation across the Czech-Saxon border

Petr Skalak (1,2), Lenka Hájková (1), Nils Feske (3), Anke Hahn (3), Petr Štěpánek (2,1), Siv-Ann Lippert (3), Lars Schöder (3), Pavel Zahradníček (2,1), Andreas Hoy (3,4), Aleš Farda (2,1)

(1) Czech Hydrometeorological Institute, Department of Climatology, Na Šabatce 17, 14306 Praha, Czech Republic (skalak@chmi.cz), (2) Global Change Research Centre AS CR, Bělidla 986/4a, 60300 Brno, Czech Republic, (3) Saxon State Agency for Environment, Agriculture and Geology, Pillnitzer Platz 3, 01326 Dresden, Germany, (4) TU Bergakademie Freiberg, Interdisciplinary Environmental Research Centre, Brennhausgasse 5, 09599 Freiberg, Germany

The climate change has no borders. Increasing demand for realistic projections of possible regional impacts of future climate changes by a scientific community, policy makers and public has made an issue of the regional climate change critically important.

The climate research project INTERKLIM carried out in the years 2013–2014 was an answer to this demand in the Czech-Saxon border region. It focused on the analysis of recent climate conditions in three Czech regions (Karlovy Vary, Ustí nad Labem and Liberec) and the Free State of Saxony in the period 1961–2010 and also provided information on the expected climate evolution till the year 2100. The important aspect of both, climate diagnosis and projection, was sharing data and methods to avoid any artificial discontinuities in attained results that could be caused by the presence of the state border.

For future climate projections, two high resolution dynamical climate models (ALADIN, RegCM3) and statistical model WETTREG were used together with emission scenarios A1B, RCP26, RCP46 and RCP85. The results were provided to experts to assess impacts of climate change in the region, summarized in a printed publication and communicated to local stakeholders in a number of public events on both sides of the border.

Acknowledgement

Supported by the project P209-11-0956 of the Czech Science Foundation.