EMS Annual Meeting Abstracts,
Vol. 6, EMS2009-392, 2009
9th EMS / 9th ECAM

9th EMS Annual Meeting
9th European Conference on Applications of Meteorology
High resolution meteorology
- applications and services

Intercomparison of four regional climate models for the German State of Saxonia

F. Kreienkamp, A. Spekat, and W. Enke
Climate and Environment Consulting Potsdam GmbH, Potsdam, Germany (frank.kreienkamp@cec-potsdam.de)

Results from four regional climate models which focus on Central Europe are presented: CCLM, the climate version of the German Weather Service's Local Model – REMO, the regional dynamic model from the Max Planck Institute for Meteorology in Hamburg – STAR, the statistical model developed at the PIK Potsdam Institute and WETTREG, the statistic-dynamic model developed by the company CEC Potsdam. For the area of the German State of Saxonia a host of properties and indicators were analyzed aiming to show the models' abilities to

- reconstruct the current climate and
- compare climate model scenarios.

These include a group of thermal indicators, such as the number of ice, frost, summer and hot days, the number of tropical nights; then there are hydrometeorological indicators such as the exceedance of low and high precipitation thresholds; humidity, cloudiness and wind indicators complement the array. A selection of them showing similarities and differences of the models investigated will be presented.