

UNIVERSITÄT HOHENHEIM
INSTITUT FÜR PHYSIK UND METEOROLOGIE

Prof. Dr. Volker Wulfmeyer

Postdoc (TV L E13)

in “Regional Climate Modeling” for two years available (with possible extension) in the
Water – Earth System Science (WESS) Competence Cluster of the
Universities of Tübingen, Hohenheim, and Stuttgart in collaboration with the
Helmholtz Centre for Environmental Research - UFZ, Leipzig.

The Universities of Tübingen, Hohenheim, Stuttgart and the Helmholtz-Centre for Environmental Research, UFZ, Leipzig, founded the Water & Earth System Science Competence Cluster (WESS), located in Tübingen, Baden-Württemberg, in 2009. The joint research centre focuses on the impact of changing environmental conditions on the water cycle as well as on the fate of pollutants and nutrients in water, soil and aquifers at the catchment scale.

The next generation of weather and climate models requires the verification and optimization of simulations of the Earth system with high resolution. Here, the WESS working group “Processes at the Land Surface Atmosphere Interface” offers a PostDoc position in “Regional Climate Modeling” (W1.1). The main research objective is the development and test of the new land-surface-vegetation-atmosphere model WRF-CLM. The model system will be extended by dynamic descriptions of soil and vegetation properties as well as land-surface-atmosphere feedback down to the scales of catchments. The model output will be characterized in detail and used for advanced simulations of extreme events and as input for hydrological models.

The work will be performed in collaboration with the DFG project PAK 346 (see <http://klimawandel.uni-hohenheim.de/65960.html?&L=1>) and the World Climate Research Programme project CORDEX (http://wcrp.ipsl.jussieu.fr/SF_RCD_CORDEX.html). The model system will be verified by the new data sets of the World Weather Research Programmes Convective and Orographically-induced Precipitation Study (COPS) as well as D-PHASE (www.uni-hohenheim.de/cops, www.map.meteoswiss.ch/map-doc/dphase/dphase_info.htm and www.wmo.int/pages/prog/arep/wwrp/new/mesoscale_new.html).

Conditions for employment are experience in land-surface and/or atmospheric processes and modeling. A PhD in Mathematics, Physics, or Earth Sciences or comparable achievements is required. For more information see <http://www.wess.info> or contact Prof. Dr. Volker Wulfmeyer (volker.wulfmeyer@uni-hohenheim.de, +49(0)711-459-22150) or Prof. Dr. Sabine Attinger, (sabine.atinger@ufz.de, +49(0)341-235-1250). Work place is Tübingen, Germany.

If you enjoy working autonomously in an international, transdisciplinary team of researchers, and if you can contribute experiences in programming atmospheric models or other three-dimensional circulation models, we are looking forward to your application. In order to increase the percentage of women, female applicants with equal qualifications will be preferred. The employment of severely challenged persons with the same occupational aptitude is favoured. Applications are reviewed starting from May 02 until the position is filled. Please send your application to **Dr. Hermann Rügner, WESS, c/o University of Tübingen, Dept. of Geoscience, Hölderlinstrasse 12, 72074 Tübingen, Germany** (h.ruegner@uni-tuebingen.de).