UNIVERSITY OF HOHENHEIM
INSTITUTE OF PHYSICS AND METEOROLOGY
The Chair of Physics and Meteorology

Postdoc Position (100% TV L E13)

for two years with possible further extension

available at the Institute of Physics and Meteorology (IPM)
University of Hohenheim, Stuttgart, Germany

We seek for a postdoc for the Land Atmosphere Feedback Observatory (LAFO, see https://lafo.uni-hohenheim.de/en) starting on February 1, 2023, in order to perform research studies on land-atmosphere (L-A) interaction. LAFO operates a worldwide unique synergy of in-situ sensors, scanning wind, humidity and temperature lidar systems as well as radar systems. This sensor synergy is applied to determine surface fluxes as well as turbulence profiles in order to investigate new relationships among gradients, variances, and fluxes. Due to its configuration as observatory, a characterization of the diurnal cycle, transitions, the mesoscale and seasonal variability of the cloud-free and cloudy planetary boundary layer (PBL) as well as the moisture and energy budgets shall be achieved. The results shall be applied to study L-A feedback and to develop new parameterizations of L-A fluxes and turbulence including entrainment.

These objectives will be addressed in cooperation with an international research team that includes among others, e.g., NOAA and NASA in the US, the GEWEX Global Land/Atmosphere System Study (GLASS, see https://www.gewex.org/panels/global-landatmosphere-system-study-panel), and the Local Land-Atmosphere Coupling (LoCo) Working Group of the World Climate Research Programme (see www.gewex.org/loco).

We are offering a postdoc position in an international research environment on a topic of cutting edge research. If this is attractive for you, we are looking forward to your application. We look forward to candidates with demonstrated leadership and substantial publications in earth system science, PBL processes, and L-A feedback. Experiences with research lidar systems and the analysis of their data is very beneficial. The candidate will take advantage of the unrivaled IPM scanning, high-resolution water vapor and temperature lidar systems, its data analysis tools for studying profiles of turbulent moments and fluxes as well as the nested large eddy simulation runs based on the WRF-NOAHMP model system.

We are committed to the equality of woman and men. The University of Hohenheim seeks to increase the proportion of women in research and teaching and strongly encourages qualified female scientists to apply. With equal qualifications, preference will be given to candidates with disabilities. As this position will be filled after a suitable candidate is found, please send your application documents as soon as possible to the following address:

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