



SMOS rehearsal campaign 2008, Upper Danube catchment: Radiometer data analysis and soil moisture retrieval using the Land Parameter Retrieval Model (LPRM)

J. Dall'Amico (1), A. Loew (2), F. Schlenz (1), and W. Mauser (1)

(1) University of Munich (LMU), Department of Geography, Munich, Germany (j.dallamico@iggf.geo.uni-muenchen.de), (2) Max-Planck-Institute for Meteorology, Land in the Earth System, Hamburg, Germany

In the context of the calibration and validation activities for ESA's Soil Moisture and Ocean Salinity (SMOS) Mission, an airborne rehearsal campaign was conducted over parts of the Upper Danube catchment (Southern Germany) in April 2008. On four days in the course of three weeks, two radiometers, namely EMIRAD (owned by the Technical University of Denmark) and HUT2D (owned by the Helsinki University of Technology), were flown over the Vils test site while intensive ground measurements were taken. The results of the data analysis as well as of the comparison of the radiometer data with the in situ measurements are presented. Also, a soil moisture retrieval using the Land Parameter Retrieval Model (LPRM) developed by Owe et al. (2008) is performed and discussed.