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Development and validation of tools for the implementation of european air quality policy in Germany (Project VALIUM)

M. Schatzmann¹, W. Bächlin², S. Emeis³, J. Kühlwein⁴, B. Leitl¹, W. J. Müller⁵, K. Schäfer³, and H. Schlünzen¹

¹Meteorological Institute, ZMAW, University of Hamburg, Germany

²Ingenieurbüro Lohmeyer GmbH & Co. KG, Karlsruhe, Germany

³Forschungszentrum Karlsruhe, IMK-IFU, Garmisch-Partenkirchen, Germany

⁴Institute of Energy Economics and the Rational Use of Energy, University of Stuttgart, Germany

⁵Lower Saxony State Agency for Ecology, Hannover, Germany

Abstract. In the framework of the German Atmospheric Research Program AFO-2000 a system of consistent coupled numerical models has been developed. The purpose of the model system is to serve as a tool for the execution of European urban air quality regulations. A consortium with the acronym VALIUM was formed, which consisted of German research institutes, environmental consultancies and an environmental agency. A substantial part of the VALIUM program was devoted to the generation of a set of high quality data for the validation of the numerical model system. The validation data are based on a combination of field studies, tracer experiments and corresponding wind tunnel experiments. The field experiments were carried out inside and around a street canyon in a city district of Hanover/Germany. After a brief introduction to the VALIUM project a summary of the main results will be given.

- [Final Revised Paper](#) (PDF, 859 KB)
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