

7 ACKNOWLEDGEMENT

This work has been funded by the BMBF – Germany within the atmospheric research activity programme AFO2000.

The inestimable help of Prof. Dr. Peter Builtjes has been necessary for the completion of this manuscript. The endless discussions with Dr. Matthias Beekmann were fundamental in finding interesting features in simulations and in observations.

Furthermore, Dr. Eberhard Reimer contributed with the initial idea and with fruitful debates, Dr. Robert Yamartino with his help of coding the budget analysis tool inside RCG and Dr. Rainer Stern in explaining the secrets of the Aerosol Chemistry transport model RCG.

Martin Lutz of the Senate Department for Urban Development has contributed with his inestimable effort of finding explanations for the air pollution sources in Berlin and has given great help in the form of funding and executing campaigns.

Arno Graff, German Environmental Protection Agency (Umweltbundesamt), supported the development of the aerosol-chemistry-transport-model RCG and is thus fundamental to this thesis.

Finally I am grateful to all the people who supported me in these years in completing this work.