

Appendix



Publications

Book section

2001

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2001

- Ansmann, A., Wagner, F., Althausen, D., Müller, D., Herber, A. und Wandinger, U. 2001. European pollution outbreaks during ACE 2: Lofted aerosol plumes observed with Raman lidar at the Portuguese coast. *J. Geophys. Res.*, **106**, 20725-20733.
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- Lammel, G., Brüggemann, E., Gnauk, T., Plewka, A., Röhl, A., Schneider, J. und Wieser, P. 2002. *On the aerosol source livestock raising*. GDCh-FG „Umweltchemie Ökotox“ - Jahrestagung. Braunschweig, Germany. 6 October. *)
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- Müller, D. 2002. *Inversion with regularization: A method for the retrieval of climate relevant properties of atmospheric particles from multiwavelength lidar measurements*. University Colloquium. Potsdam, Germany. 26 April. *)
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- Schmidt, S., Wendisch, M. und Jäkel, E. 2002. *Airborne microphysical measurements during the BBC campaign 2001*. CLIWA-NET/4D-Clouds Workshop. Leipzig, Germany. 13-16 June.
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- Simmel, M., Diehl, K., Posselt, R., Stratmann, F. und Wurzler, S. 2002. *Development of cloud microphysical modules to investigate the effects of biomass burning on clouds*. AFO 2000. The German Atmospheric Research Programme 2000 - 2006. Statusseminar. Schliersee, Germany. 7-9 October.
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- Spindler, G., Brüggemann, E., Grüner, A. und Herrmann, H. 2002. *Longtime investigations of energy- and trace gas fluxes over grassland for example at the anchor station (field research station Melpitz) and parametrisation of atmospheric resistance (inferential) models (VERTIKO-IfT)*. AFO 2000. The German Atmospheric Research Programme 2000 - 2006. Statusseminar. Schliersee, Germany. 7-9 October.
- Wandinger, U. 2002. *Lidar activities at the Institute for Tropospheric Research*. COST-720 Working Group Meeting, University of Bern. Bern, Schweiz. 21-22 March.
- Wandinger, U. 2002. *Wasserdampf-Raman-Lidar*. Workshop: Laserfernerkundung von Wasserdampf und Wind, Universität Hohenheim, Deutschland. 8.-9. April.
- Wandinger, U., Müller, D., Mattis, I. und Dubovik, O. 2002. *Integrated lidar-photometer observations of Saharan dust over Europe*. COST-720 Working Group Meeting. University of Zürich, Switzerland. 12-13 September. *)
- Wehner, B., Fischer, C., Wiedensohler, A. und Heintzenberg, J. 2002. *Particle number concentrations and size distributions during AOE 2001*. First Post-Experiment Workshop. Stockholm, Sweden. 21-23 April.
- Wendisch, M. 2002. *Globale Klimaänderung - Was geht uns das an?* Naunhofer Kulturwerkstatt. Naunhof, Deutschland. 9. März. *)
- Wendisch, M. 2002. *Flugzeuggetragene Strahlungsmessungen mit einem spektralen Albedometer*. Alfred-Wegener-Institut. Bremerhaven, Deutschland. 10. Juni. *)
- Wendisch, M. 2002. *Globale Klimaänderung - Was geht uns das an?* Gymnasium Engelsdorf, Deutschland. 11. Oktober. *)
- Wendisch, M. und Coe, H. 2002. *Results of the EURAR-Workshop on „Airborne Particle Inlets“*. 4th EUFAR Progress Meeting, Instituto Nacional De Tecnica Aeroespacial (INTA). Madrid, Espania. 12 June. *)



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- Wendisch, M., Jäkel, E., Schmidt, S. und Trautmann, T. 2002. *Inhomogeneities of aerosols, clouds, and surface albedo - Influence on irradiances and actinic flux density*. INSPECTRO Kick-off meeting. Norwich, UK. 7-10 January.
- Wendisch, M., Schmidt, S., Jäkel, E. und Trautmann, T. 2002. *Cloud inhomogeneities and their influence on spectral irradiances and optical cloud properties*. AFO 2000. The German Atmospheric Research Programme 2000 - 2006. Statusseminar. Schliersee, Germany. 7-9 October.
- Wiedensohler, A., Wehner, B., Maßling, A., Birmili, W. und Herrmann, H. 2002. *Feine und ultrafeine Partikel - Außenluftbelastung und Exposition. Wirkung und Erfassung von Fein- und Ultrafeinstäuben*. Institut für Toxikologie und Umwelthygiene der TU München, Deutschland. 12. Februar. *)
- Wiedensohler, A., Wehner, B., Maßling, A. und Tuch, T. 2002. *Physical properties of urban aerosole*. 19th Symposium on Aerosol Science and Technology. Kyoto, Japan. 7 August. *)
- Wolke, R., Herrmann, H., Diehl, K., Hinneburg, D., Knoth, O., Majdik, Z.-T., Sehilli, A. M., Wurzler, S., Zech, G., Mauersberger, G. und Müller, F. 2002. *Modeling of tropospheric multiphase processes: Tools and chemical mechanisms (MODMEP)*. AFO 2000. The German Atmospheric Research Programme 2000 - 2006. Statusseminar. Schliersee, Germany. 7-9 October.
- Wurzler, S. 2002. *Welche Rolle spielen unlösliche Partikel in Wolken bei der Bildung der Eisphase?* DLR Oberpfaffenhofen, Deutschland. 13.-14. Juni. *)
- Wurzler, S. 2002. *Gute Luft, schlechte Luft*. „Das Jahr der Geowissenschaften“, Veranstaltung „Lufttage“ im Hauptbahnhof Leipzig (BMBF). Leipzig, Deutschland. 19. April. *)
- Wurzler, S. 2002. *Wechselwirkungen Aerosolpartikel und Wolken: Die Rolle unlöslicher Partikel in troposphärischen Wolken*. Institut für Physik der Atmosphäre, DLR. Oberpfaffenhofen, Deutschland. 4. November. *)
- Wurzler, S. 2002. *Wechselwirkungen Aerosolpartikel und Wolken: Die Rolle unlöslicher Partikel in troposphärischen Wolken*. Zentrum für Umweltforschung (ZUF), Universität Frankfurt, Deutschland. 27. November. *)
- Wurzler, S., Herrmann, H., Iinuma, Y., Simmel, M., Stratmann, F., Wiedensohler, A., Zech, G., Zeromskiene, K., Hungershöfer, K., Trautmann, T., Andreae, M. O., Helas, G., Trentmann, J., Graf, H., Langmann, B., Nöber, F. und Textor, C. 2002. *Impact of vegetation fires on the composition and circulation of the atmosphere: The AFO2000 joint research project EFEU*. AFO 2000. The German Atmospheric Research Programme 2000 - 2006. Statusseminar. Schliersee, Germany. 7-9 October.

*) invited lectures

Patent

2002

- Berndt, T., Böge, O. und Heintzenberg, J., **2002**, Verfahren zur Herstellung von Epoxiden durch Oxidation von Olefinen (Patentantrag), Deutschland: DE 100 44 538 A 1. Int.: PCT/EP01/10231 (WO 02/20502 A1)



University courses

Winter semester	2000/2001	University Leipzig Faculty for Physics and Geosciences
<u>Heintzenberg, J.</u>	Frontlines of Atmospheric Research	1 HPW*)
<u>Heintzenberg, J.</u>	Radiation on the Atmosphere	1 HPW
<u>Heintzenberg, J.</u> Stratmann, F. Wiedensohler, A.	Atmospheric Aerosols I	2 HPW
<u>Herrmann, H.</u>	Atmospheric Chemistry I Atmospheric Chemistry Seminar Atmospheric Chemistry Lab	2 HPW 2 HPW block course
<u>Renner, E.</u>	Modeling of transport and chemical transformation of air pollutants	2 HPW
<u>Wendisch, M.</u>	Airborne Physical Measurement Methods	1 HPW
<u>Althausen, D.</u>	Optical Measurement Technique	1 HPW
<u>Wandinger, U.</u>	Atmospheric Optics	1 HPW

Winter semester	2000/2001	Friedrich-Schiller-University Jena Faculty for Chemistry and Geosciences
<u>Renner, E.</u>	Environmental Meteorology Modeling of transport and chemical transformation of air pollutants	

Summer semester	2001	University Leipzig Faculty for Physics and Geosciences
<u>Heintzenberg, J.</u> Ansmann, A. Dubois, R. Klugmann, D. Siebert, H.	Modern Meteorological Instruments I	1 HPW
<u>Heintzenberg, J.</u> Stratmann, F. Wiedensohler A.	Atmospheric Aerosols II	2 HPW
<u>Herrmann, H.</u>	Atmospheric Chemistry II Atmospheric Chemistry Seminar Atmospheric Chemistry Exercises	2 HPW 2 HPW 1 HPW
<u>Renner, E.</u> Hellmuth, O. Knoth, O. Wolke, R.	Mesoscale Meteorological Modeling	2 HPW
<u>Wendisch, M.</u>	Airborne Physical Measurement Methods	1 HPW



Winter semester	2001/2002	University Leipzig Faculty for Physics and Geosciences
<u>Heintzenberg, J.</u>	Frontlines of Atmospheric Research	1 HPW*)
<u>Heintzenberg, J.</u>	Radiation on the Atmosphere	1 HPW
<u>Heintzenberg, J.</u> <u>Stratmann, F.</u> <u>Wiedensohler, A.</u>	Atmospheric Aerosols I	2 HPW
<u>Heintzenberg, J.</u> <u>Wendisch, M.</u> <u>Wurzler, S.</u>	Cloud Physics I	2 HPW
<u>Herrmann, H.</u>	Atmospheric Chemistry I Atmospheric Chemistry Seminar Atmospheric Chemistry Lab	2 HPW 2 HPW block course
<u>Renner, E.</u>	Modeling of transport and chemical transformation of air pollutants	2 HPW
<u>Wendisch, M.</u>	Airborne Physical Measurement Methods	1 HPW
<u>Althausen, D.</u>	Optical Measurement Technique	1 HPW
<u>Wandinger, U.</u>	Atmospheric Optics	1 HPW

Winter semester	2001/2002	Friedrich-Schiller-University Jena Faculty for Chemistry and Geosciences
<u>Renner, E.</u>	Environmental Meteorology Modeling of transport and chemical transformation of air pollutants	

Summer semester	2002	University Leipzig Faculty for Physics and Geosciences
<u>Heintzenberg, J.</u> <u>Ansmann, A.</u> <u>Dubois, R.</u> <u>Klugmann, D.</u> <u>Siebert, H.</u>	Modern Meteorological Instruments I	1 HPW
<u>Heintzenberg, J.</u> <u>Stratmann, F.</u> <u>Wiedensohler A.</u> <u>Hellmuth, O.</u>	Atmospheric Aerosols II	2 HPW
<u>Herrmann, H.</u>	Atmospheric Chemistry II Atmospheric Chemistry Seminar Atmospheric Chemistry Exercises	2 HPW 2 HPW 1 HPW
<u>Renner, E.</u> <u>Hellmuth, O.</u> <u>Knoth, O.</u> <u>Wolke, R.</u>	Mesoscale Meteorological Modeling	2 HPW



Appendix: University courses

Summer semester	2002	University Leipzig Faculty for Physics and Geosciences
<u>Wendisch, M.</u>	Airborne Physical Measurement Methods	1 HPW
<u>Trautmann, Th.</u> <u>Wendisch, M.</u> <u>Heintzenberg, J.</u>	Radiative Transfer in Clouds	2 HPW
Summer semester	2002	University Hohenheim Graduiertenkolleg 768 Strategien zur Vermeidung der Emission klimarelevanter Gase und umwelttoxischer Stoffe aus Landwirtschaft und Landschaftsnutzung
<u>Heintzenberg, J.</u>	The Role of Aerosol Particles in the Climate System of the Earth	
Summer semester	2002	Universidad Técnica Federico Santa Maria Valparaiso, Chile
<u>Heintzenberg, J.</u>	Atmospheric Aerosols	

**Master thesis 2001**

**University Leipzig
Faculty for Physics and
Geosciences**

Galgon, Diane	Die Größenverteilung feiner atmosphärischer Partikel in der Abluffahne einer Großstadt
Bräsel, Sylvia	Untersuchung von Partikelneubildung und -wachstum im atmosphärisch relevanten H_2SO_4 - H_2O System im laminaren Strömungsrohr

Master thesis 2002

**University Leipzig
Faculty for Physics and
Geosciences**

Fischer, Corinne	Partikelgrößenverteilung und Bildung ultrafeiner Partikel in der Arktis
Chemnitzer, René	Analytik von Metallen in troposphärischen Partikeln und Wolkenröpfchen mit Atomabsorptionsspektroskopie



Doctoral theses 2001

University Leipzig Faculty for Physics and Geosciences	
Müller, Thomas	Bestimmung streckenintegrierter Aerosolparameter und Wasserdampf-konzentrationen aus spektralen Extinktionsmessungen
Lohrmann, Birgit	Spurenstoffmessung in der kontinentalen Grenzschicht mittels Differentieller Optischer Absorptionsspektroskopie-Untersuchung zur salpetrigen Säure und zum NO_3 -Radikal
Siebert, Holger.	Tethered-Balloon Borne Turbulence Measurements in the Cloudy Boundary Layer
Maßling, Andrea	Hygroscopic Properties of Atmospheric Particles over the Atlantic and Indian Oceans

University Leipzig Faculty for Chemistry and Mineralogy	
Ervens, Barbara	Durchführung und Interpretation von Multiphasen-Modellrechnungen. Ermittlung physikochemischer Parameter zu Flüssigphasen-reaktionen des OH-Radikals
Schütze, Matthias	Entwicklung und Anwendung einer spektroskopischen Anordnung zur Ermittlung von "Up-take" Koeffizienten verschiedener Spezies an Tröpfchen
Plewka, Antje	Untersuchung des organischen Anteils im atmosphärischen Aerosol

Doctoral theses 2002

University Leipzig Faculty for Physics and Geosciences	
Mattis, Ina	Charakterisierung des troposphärischen Aerosols über einem europäischen Ballungsgebiet mit einem Ramanlidar
Wex, Heike	Closure and Sensitivity Studies on Physical Parameters of Rural Continental Aerosols
Sierau, Berko	Entwicklung eines Interfaces zwischen einem differentiellen Mobilitäts-analysator und einem Massenspektrometer
Jaenisch, Volker	Der einfluss turbulenter Mischungsprozesse auf die Bildungsraten atmo-sphärischer Aerosolpartikel

University Leipzig Faculty for Chemistry and Mineralogy	
Donati, Andreas	Zeitaufgelöste kinetische Untersuchungen halogenhaltiger Oxidantien in wässriger Phase



Guest scientists

2001		
Assoc.Prof. Min Hu	1./31. Jan. 01	Peking University, China Center for Environmental Sciences
Dr. Francisco Cereceda Balic	25. Febr./2. March 01	Univ. Técnica Federico, Santa Maria, Chile
Prof. Dr. Robert J. Charlson	9./14. April 01	University of Washington, Seattle, USA Dept. of Atmospheric Sciences
Prof. Dr. Robert J. Charlson	30. Aug./4. Sept.	University of Washington, Seattle, USA Dept. of Atmospheric Sciences
Dr. Yinon Rudich	2./7. Sept. 01	Weizmann Institute Rehovot, Dept. of Environmental Sciences, Israel
Dr. Christian Carrico	9./20. Sept. 01	Georgia Institute of Technology, Atlanta, USA
Prof. Dr. Jeffrey L. Collett	3./9. Nov. 01	Colorado State University, Colorado, USA Dept. of Atmospheric Sciences
Prof. Dr. I. Morozov	18. Nov./13. Dec. 01	Russian Academy of Sciences, Inst. of Chemical Physics, Moscow, Russia

2002		
Dr. Y. Arshinov	1. March/30. April 02	Russ. Academy of Sciences, Inst.f. Atmosph. Optics, Tomsk, Russia
Dr. S. Bobrovnikov I. Serikov	1. March/30. April 02	Russ. Academy of Sciences, Inst.f. Atmosph. Optics, Tomsk, Russia
Prof. Dr. I. Morozov	3. March/30. April 02	Russ. Academy of Sciences, Inst.f. Atmosph. Optics, Tomsk, Russia
Dr. Fred Brechtel	21. July/7. Sept. 02	Brookhaven National Laboratory, Upton, USA
Prof. Dr. J. Collett	11. Sept./21. Dec. 02	Colorado State University, Colorado, USA Dept. of Atmospheric Sciences
Dr. J. Baret	5. Aug./6. Oct. 02	Nuclear Department, HMS Sultan Gosport, UK



Scientific events

2001

Event	Place and date	Number of participants
European Aerosol Conference (EAC)	Leipzig 3-7 Sept.	581 international
International Multiphase Workshop (within the scope of the EAC)	Leipzig 4 Sept.	100 international
Preparation Meeting of the ESD-Proposal "Transistor Radar"	Leipzig 23-24 Aug.	6 national
Opening Meeting of the AFO-Project FEBUKO (Field investigations of budgets and conversations of particle phase organics in tropospheric cloud processes)	Gehlberg (Schmücke) 26-27 March	13 national
Field Measurement Campaign Tracer Experiment AFO-Projekt FEBUKO	Gehlberg (Schmücke) 14-31 May	14 national
Project Meeting AFO-Project FEBUKO	Weißenstadt/Bayreuth 10 Sept.	15 national
FEBUKO Field Measurement Campaign (I)	Gehlberg (Schmücke) 24 Sept.- 8 Nov.	32 national
BEWA 2000 Field Measurement Campaign (Regional biogenic emissions of reactive volatile organic compounds)	Waldstein (Bayreuth) 2 July - 4 Aug.	9 national
UAVL-Meeting (Unmanned Airborne Vehicles Laboratory)	Leipzig 2-4 July	4 national 9 international
Project Meeting EFEU (Impact of Vegetation Fires on the Composition and Circulation of the Atmosphere)	Leipzig 28-29 May	16 national
	Hamburg 29-30 Nov.	14 national
Project Meeting MODMEP (Modelling of Tropospheric Multiphase Processes: Tools and Chemical Mechanisms)	Leipzig 15-16 March	11 national



2002

Event	Place and date	Number of participants
Projekt Meeting MODMEP	Leipzig 28 Febr.- 1 March	12 national
EUFAR- International Workshop on Airborne Particle Inlets (European Fleet for Atmospheric Research)	Leipzig 12-13 April	20 national 15 international
Projekt Meeting FEBUKO	Berlin 25-26 April	20 national
DFG-Workshop Atmospheric Forecast 2020	Leipzig 2-3 May	22 national
Data Analyzis Workshop (BBC-Measurement Campaign)	Leipzig 13-16 May	20 national 40 international
Project Meeting EFEU	Mainz 13-14 June	14 national
BEWA Field Measurement Campaign	Waldberg (Bayreuth) 1 July- 2 Aug.	9 national
FEBUKO Field Measurement Campaign (II)	Thür. Wald 16 Sept.- 30 Oct.	34 national 1 international
Project Meeting MODMEP	Gehlberg (Schmücke) 23-24 Oct	11 national
Project Meeting FEBUKO/MODMEP	Gehlberg (Schmücke) 24-25 Oct.	32 national 1 international



Memberships

Ansmann, A.

- NASDA-ESA EarthCARE Joint Mission Advisory Group

Heintzenberg, Jost

- Nationales Komitee für Forschung auf dem Gebiet globaler Umweltveränderungen der Deutschen Forschungsgemeinschaft
- Ordentliches Mitglied der Sächsischen Akademie der Wissenschaften
- Außerordentliches Mitglied Berlin-Brandenburgische Akademie der Wissenschaften (ab 2002)
- Wissenschaftlicher Beirat des Deutschen Wetterdienstes
- VDI-Ausschuss "Messen von Ruß"
- Sprecher der Sektion E der Wissenschaftsgemeinschaft "Gottfried Wilhelm Leibniz"
- Editor of Geophysical Research Letters (bis 2001)
- Editorial Board Tellus B, Atmospheric Research
- Scientific Advisory Board of the Research Institute for Humanity and Nature, Kyoto, Japan (ab 2002)
- ESF Scientific User Committee for EUFAR (European Fleet for Atmospheric Research)
- Permanent Scientific Advisory Committee of the Centro de Geofísica de Evora, Portugal

Herrmann, Hartmut

- Sprecher der Gruppe "Mehrphasenprozesse" im BMBF-Programm AFO 2000
- IUPAC Committee "Aqueous Solution Kinetics Data for Atmospheric Chemistry"
- Koordinator des CMD-Teilprojekts CMD-APP (Aqueous Phase Processes)
- CMD Data Evaluation Panel
- GdCh, Arbeitskreis "Atmosphärenchemie"

Renner, Eberhard

- DECHEMA/GVC-Arbeitsausschuss "Schadstoffausbreitung"
- Scientific Committee of the NATO/CCMS ITM conference series, German member

Stratmann, Frank

- "Scientific Programm Committee" der Europäischen Aerosolkonferenz

Wandinger, Ulla

- International Coordination-group on Laser Atmospheric Studies (ICLAS)
- Committee on Laser Atmospheric Studies of the American Meteorological Society (CLAS)
- COST-720, European Co-operation in the field of Scientific and Technical Research - 720: Integrated Ground-Based Remote-Sensing Stations for Atmospheric Profiling, Working group 1

Wendisch, Manfred

- Koordinator (Aerosol Mikrophysik) im EUFAR (European Fleet for Atmospheric Research) Projekt

Wiedensohler, Alfred

- "Scientific Advisory Group" für Aerosole innerhalb des "Global Watch"-Programmes der World Meteorological Organization
- Editorial Board Member "Atmosphere, Water, Air and Soil Pollution"



National and international Cooperation

2001/2002

Research project	Cooperation partners
AEROSOL "The Aerosol Balance in Europe" EUROTRAC 2	<ul style="list-style-type: none"> European partners
Characterization of aerosols in strong anthropogenically influenced industry and agrarregions	<ul style="list-style-type: none"> Max-Planck-Institut für Meteorologie, Hamburg Universität Hohenheim Umweltforschungszentrum Leipzig/Halle GmbH
Characterization of aerosols over the Indian Ocean Indian Ocean Experiment (INDOEX)	<ul style="list-style-type: none"> University Washington, USA NOAA Antlantic Oceanographic and Meteorological Lab., Miami, USA Indian Institute of Technology, Mumbai, India Laboratoire d'Optique Atmospherique, Universite des Sciences et Technologies de Lille, Lille, France
New particle formation	<ul style="list-style-type: none"> Deutscher Wetterdienst Met. Observatorium Hohenpeißenberg
Ground-based local closure experiment	<ul style="list-style-type: none"> German partners
Multiwavelength lidar and aircraft observations during an aerosol closure experiment	<ul style="list-style-type: none"> Max-Planck-Institut für Meteorologie, Hamburg Max-Planck-Institut für Chemie, Mainz GSF - Forschungszentrum für Umwelt und Gesundheit, München Deutscher Wetterdienst, Met. Observatorium Lindenberg Deutsches Zentrum für Luft- und Raumfahrt, Oberfaffenhofen / Neustrelitz Universitäten: <ul style="list-style-type: none"> Berlin, Darmstadt, Potsdam, Frankfurt, Bremen München, Mainz, Würzburg, Hohenheim, Wien
Characterization of the vertical aerosol distribution over an anthropogenically influenced region	<ul style="list-style-type: none"> Max-Planck-Institut für Meteorologie, Hamburg Leibniz-Institut für Atmosphärenphysik, Kühlungsborn Universität Potsdam Fraunhofer-Institut für Atmosphären- und Umweltforschung, Garmisch-Patenkirchen
Optimisation of methods for the reduction emissions in the black triangle	<ul style="list-style-type: none"> Hochschule Zittau/Görlitz Sächs. Landesamt für Umwelt und Geologie, Dresden
Modelling of unimolecular reactions Model Development	<ul style="list-style-type: none"> Universität Halle, Institut für Physikalische Chemie
Reservoir distribution of atmospheric trace gases	<ul style="list-style-type: none"> Brandenburgische Technische Universität Cottbus FI für Toxikol. und Aerosolforschung Hannover
CMD-APP "Interactions of free radicals with organics within the tropospheric aqueous phase"	<ul style="list-style-type: none"> European partners



Research project	Cooperation partners
CMD-MPM “Modelling calculations of tropospheric gasphase and aqueous phase chemistry”	<ul style="list-style-type: none"> • European partners
The influence of heterogeneous reactions In seasalt-aerosol on regional and global photooxidant chemistry	<ul style="list-style-type: none"> • Max-Planck-Institut für Chemie, Mainz • University of Utrecht, Netherlands
Atmospheric aerosol chemistry	<ul style="list-style-type: none"> • Harvard University, Boston, USA
MITRAS, Development of a numerical scheme for high resolution models under consideration of transport and deposition of diesel soot	<ul style="list-style-type: none"> • Universität Hamburg, Meteorologisches Institut • Alfred-Wegener-Institut, Bremerhaven • Fraunhofer Institut f. Atmosphären- und Umweltforschung, Garmisch-Partenkirchen
Modelling of mixing height and of entrainment processes	<ul style="list-style-type: none"> • Universität Hamburg, Meteorologisches Institut • Deutscher Wetterdienst, Offenbach • Deutscher Wetterdienst, Met. Observatorium Lindenberg
Parallelization of meteorological and chemical transport models	<ul style="list-style-type: none"> • Universität Leipzig, Institut für Meteorologie • Universität Leipzig, Institut für Informatik • Technische Universität Chemnitz, Fakultät für Mathematik
Modelling of micro-physical and chemical processes in cloud droplets	<ul style="list-style-type: none"> • Brandenburgische Technische Universität Cottbus • Universität Hamburg, Meteorologisches Institut
Implicit-explicit methods for integration of chemistry-transport-models	<ul style="list-style-type: none"> • Universität Halle, Fachbereich Mathematik und Informatik • Centrum for Wiskunde en Informatica, Amsterdam, Netherlands
GLOREAM (Regional modelling of air pollution in Europe)	<ul style="list-style-type: none"> • European partners
SATURN (Studying atmospheric pollution in urban areas)	<ul style="list-style-type: none"> • European partners
Development of a dynamical high resolution emission inventory for Saxony	<ul style="list-style-type: none"> • Technische Universität Dresden • Hochschule Zittau/Görlitz
The role of cloud processing and of organic matter on the formation of soluble layers on mineral dust particles and the impact on cloud characteristics	<ul style="list-style-type: none"> • Universität Bonn, Meteorologisches Institut • Max-Planck-Institut für Chemie, Mainz • Tel Aviv University, Israel Dept. of Geophysics and Planetary Sciences • Weizmann Institut Rehovot, Israel
Effects of aerosol particles on drop size distributions and drop freezing: A numerical investigation with detailed cloud microphysics and derivation of parameterizations	<ul style="list-style-type: none"> • Universität Bonn, Institut für Meteorologie
Influence of anthropogenically polluted clouds on the radiation budget of the atmosphere and the formation of photochemical smog.	<ul style="list-style-type: none"> • Universität Bonn, Meteorologisches Institut • Universität Mainz, Institut für Physik der Atmosphäre • Universität Leipzig, Institut für Meteorologie



Research project	Cooperation partners
MOST (Multiphase chemistry of Oxygenated Species in the Troposphere)	<ul style="list-style-type: none"> • Laboratoire d'Application de la Chimie à l'Environnement (LACE), France • University College of Dublin • CNRS-LCSR, Orléans France • Bergische University Wuppertal • University of Leeds • University of Provence, France • EPFL Lausanne • Fundaciòn CEAM EUPHORE, Spain • Fraunhofer Institut für Toxicologie und Aerosolforschung, Hannover • University of Crete, Greece • Laboratoire Inter-universitaire des Systèmes atmosphériques, France
FEBUKO (Field investigations of budgets and conversations of particle phase organics in tropospheric cloud processes)	<ul style="list-style-type: none"> • Brandenburgische Technische Universität Cottbus • Zentrum für Umweltforschung Frankfurt • Technische Universität Darmstadt
BEWA 2000 (Regional biogenic emissions of reactive volatile organic compounds)	<ul style="list-style-type: none"> • Universität Innsbruck, Österreich • Institut für Meteorologie und Klimaforschung Karlsruhe • Technische Universität Darmstadt • Universität Freiburg • Universität Tübingen • Bergische Universität - Gesamthochschule Wuppertal • Max-Planck-Institut für Biogeochemie, Jena • Bayreuther Institut für Terrestrische Ökosystemforschung • Max-Planck-Institut für Chemie, Mainz
INTERCOMP 2000 (Aerosol intercomparison experiment Melpitz 2000)	<ul style="list-style-type: none"> • ECN Petten, Niederlande • Universität Wien, Österreich • Universität Genf, Belgien • Paul-Scherrer-Institut, Villingen, Schweiz • Finnish Meteorological Institut, Finnland • National Institut Chemistry, Ljubljana, Slovenien
Characterization of mineral dust from lidar and sunphotometer observations	<ul style="list-style-type: none"> • AERONET, NASA - Goddard Space Flight Center, Greenbelt, USA
Cloud-Aerosol Lidar and Infrared Pathfinder Satellite Observations (CALIPSO)	<ul style="list-style-type: none"> • NASA - Langley Research Center, Hampton, USA
Measurements of vertical temperature	<ul style="list-style-type: none"> • Institute for Atmospheric profile with a Raman lidar Optics, Tomsk, Russia
4D-CLOUDS (Inhomogene Bewölkung - Ihr Einfluss auf die Austausch- und Transportprozesse in der Atmosphäre)	<ul style="list-style-type: none"> • German partners
BBC (Baltex Bridge Campaign)	<ul style="list-style-type: none"> • European partners



Research project	Cooperation partners
INSPECTRO (Influence of clouds on the spectral actinic flux in the lower troposphere)	<ul style="list-style-type: none"> • European partners
ICRCCM-III International Project (Inter Comparison of Radiation Codes in Climate Models, Phase III)	<ul style="list-style-type: none"> • Partners from USA, Russia, Australia, UK, Canada, France, Japan, Finland
EUFAR (European Fleet for Airborne Research)	<ul style="list-style-type: none"> • European partners
EARLINET (European Aerosol Research Lidar Network)	<ul style="list-style-type: none"> • European partners
TRANSVAER (Vertical transport of particles between planetary boundary layer and free troposphere)	<ul style="list-style-type: none"> • Max-Planck-Institut für Meteorologie Hamburg
ATLID (EarthCARE lidar performance study)	<ul style="list-style-type: none"> • Meteorologisches Institut der Universität München
ACE-ASIA Aerosol Characterization Experiment)	<ul style="list-style-type: none"> • University of Washington, Seattle, USA • Pacific Marine Environmental Laboratory, Seattle, USA
EFEU (Impact of vegetation fires on the composition and circulation of the atmosphere)	<ul style="list-style-type: none"> • German partners
Urban Aerosol	<ul style="list-style-type: none"> • Umweltforschungszentrum Leipzig-Halle, Leipzig
World Calibration Center	<ul style="list-style-type: none"> • World Meteorological Organization, Geneva, Switzerland • Umweltbundesamt, Berlin
CARIBIC (Civil Aircraft for Regular Investigation of the atmosphere Based on an Instrument Container)	<ul style="list-style-type: none"> • German partners • European partners
Hygroscopicity of supermicron particle	<ul style="list-style-type: none"> • University of Washington, Seattle, USA • Pacific Marine Environmental Laboratory, Seattle, USA
STINHO (Structure of turbulent transport over inhomogeneous surfaces)	<ul style="list-style-type: none"> • German partners
The influence of turbulence on particle formation in the meso-scale	<ul style="list-style-type: none"> • Deutscher Wetterdienst, Abt. Forschung u. Entwicklung
Particle transport and deposition	<ul style="list-style-type: none"> • Gerhard-Mercator-Universität, Duisburg • Inst. für Energie- und Umwelttechnik, Duisburg



Research project	Cooperation partners
CITY-DELTA, An inter-comparison of long-term model responses to urban-scale emission reduction scenarios	<ul style="list-style-type: none"> • Joint Research Centre, Institute for Environment and Sustainability, Ispra, Italy • International Institute for Applied Systems Analysis, Laxenburg, Austria • EMEP • TNO, Environment, Energy and Process Innovation, Apeldoorn, Netherlands
On the impact of LES derived turbulence length-scales on predicted mesoscale fields using the Local Model	<ul style="list-style-type: none"> • Max-Planck-Institut für Meteorologie, Hamburg • Deutscher Wetterdienst , Abt. Forschung u. Entwicklung, Potsdam
Development of a detailed and a moment based cloud microphysical modul for the investigation of the effects of the biomass burning on clouds AFO 2000, EFEU	<ul style="list-style-type: none"> • Universität Leipzig, Institut für Meteorologie • Max-Planck-Institute für Chemie, Biochemie, Mainz • Max- Planck-Institut für Meteorologie, Hamburg
Numerical simulations of the cloud – aerosol - gas interactions in the overflow over a mountain AFO 2000, MODMEP	<p>Projektpartner MODMEP:</p> <ul style="list-style-type: none"> • Max- Planck-Institut für Meteorologie, Hamburg • Brandenburgische Technische Universität Cottbus
Coupled time integration of multiphase processes AFO 2000, MODMEP	<ul style="list-style-type: none"> • Projektpartner MODMEP: • Max- Planck-Institut für Meteorologie, Hamburg • Brandenburgische Technische Universität Cottbus
Spatial description of clouds and their boundaries in multi-dimensional Eulerian grid models AFO 2000, MODMEP	<ul style="list-style-type: none"> • Projektpartner MODMEP: • Max- Planck-Institut für Meteorologie, Hamburg • Brandenburgische Technische Universität Cottbus



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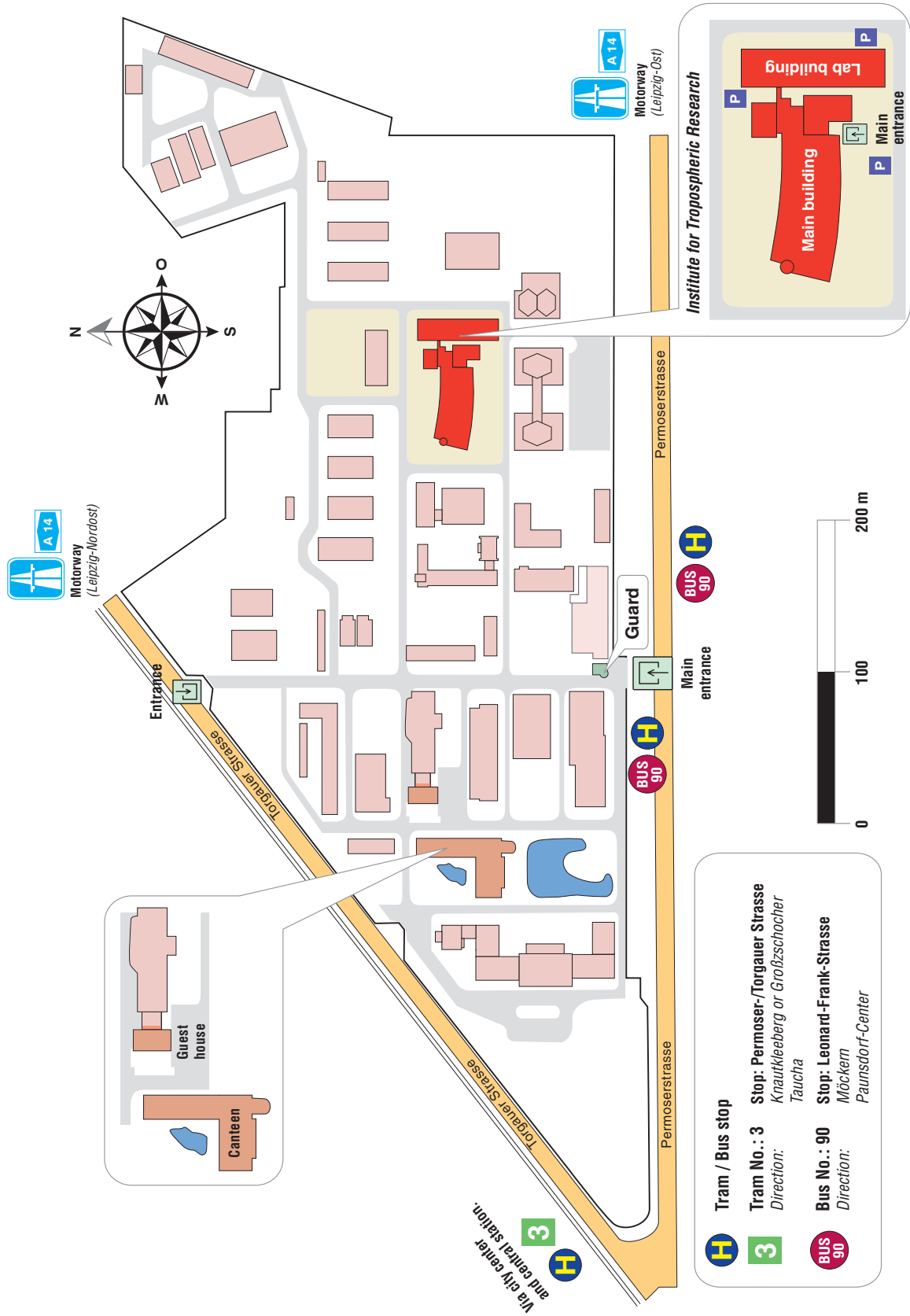
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