

# **Publikationer/Publications**

## **Atmosfærisk miljø/Atmospheric Environment**

### **Forskning/Research**

#### **Internationale videnskabelige publikationer med referee/International Scientific Publications**

Bozó, L., Kukkonen, J., Palmgren, F. & Sokhi, R.S. 2002: Investigation of Aerosol Particles in Urban Areas. In: Midgley, P. & Reuther, M. (eds.): Transport and Chemical Transformation in the Troposphere. Proceedings of EUROTRAC-2 Symposium 2002. Margraf Verlag. pp. 155-161.

Brandt, J. & Mikkelsen, T. (Guest Eds.) 2002: Mesoscale Transport of Air Pollution. Preface. - Physics and Chemistry of the Earth 27(35): p. 1467.

Brandt, J., Christensen, J.H. & Frohn, L.M. 2002: Modelling Transport and Deposition of Caesium and Iodine from the Chernobyl Accident using the DREAM Model. - Atmospheric Chemistry and Physics Discussions 2: 825-874.

Clai, G., Berkowicz, R., Duering, I., Ketzler, M., Lohmeyer, A., Moussiopoulos, N. & Papalexioiu, S. 2001: Proposal for the Calculation of the High Percentiles of Concentrations Necessary for the Execution of Directive 1999/30/EU. - International Journal of Environment and Pollution 16(1-6): 451-459.

Dalgaard, T., Halberg, N. & Fenger, J. 2002: Can Organic Farming Help to Reduce National Energy Consumption and Emissions of Greenhouse Gasses in Denmark?. In: Ierland, E.C. van & Lansink, A.O. (eds.): Economics of Sustainable Energy in Agriculture. Kluwer Academic Publishers. - Economy & Environment 24: 191-204.

Dimov, I. & Zlatev, Z. 2002: Optimization Problems in Air-Pollution Modeling. In: Pardalos, P.M. & Resende, M.G.C. (eds.): Handbook of Applied Optimization. Oxford University Press. pp. 943-956.

Dimov, I., Faragó, I., Havasi, Á. & Zlatev, Z. 2001: L-Community of the Operators in Splitting Methods for Air Pollution Models. - Annales Universitatis Scientiarum Budapestinensis 44: 129-150.

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Feilberg, A., Nielsen, T., Binderup, M.-L., Skov, H. & Poulsen, M.W.B. 2002: Observations of the Effect of Atmospheric Processes on the Genotoxic Potency of Airborne Particulate Matter. - Atmospheric Environment 36: 4617-4625.

Fenger, J. 2002: Urban Air Quality. In: Austin, J., Brimblecombe & Sturges, W.: Air Pollution Science for the 21st Century. Elsevier. Pp. 1-52.

Frohn, L.M., Christensen, J.H. & Brandt, J. 2002: Development and Testing of Numerical Methods

for Two-Way Nested Air Pollution Modelling. European Geophysical Society (EGS) XXVI General Assembly, Nice, France, 25-30 March 2001 - *Physics and Chemistry of the Earth* 27: 1487-1494.

Frohn, L.M., Christensen, J.H. & Brandt, J. 2002: Development of a High-Resolution Nested Air Pollution Model. The Numerical Approach. - *Journal of Computational Physics* 179: 68-94.

Geels, C., Christensen, J.H., Frohn, L.M. & Brandt, J. 2002: Simulating Spatiotemporal Variations of Atmospheric CO<sub>2</sub> using a Nested Hemispheric Model. - *Physics and Chemistry of the Earth* 27: 1495-1505.

Geels, C., Christensen, J.H., Hansen, A.W., Kiilsholm, S., Larsen, N.W., Larsen, S.E., Pedersen, T. & Sørensen, L.L. 2001: Modeling Concentrations and Fluxes of Atmospheric CO<sub>2</sub> in the North East Atlantic Region. - *Physics and Chemistry of the Earth (B)* 26(10): 763-768.

Goodsite, M.E., Rom, W., Heinemeier, J., Lange, T., Ooi, S., Appleby, P.G., Shotyk, W., Knaap, W.O. van der, Lohse, C. & Hansen, T.S. 2001: High-Resolution AMS 14C Dating of Post-Bomb Peat Archives of Atmospheric Pollutants. In: Carmi, I. & Boaretto, E. (eds.): *Proceedings of the 17th International 14C Conference*. Arizona Board of Regents (University of Arizona). - *Radiocarbon* 43(2B): 495-515.

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Hass, H., Loon, M. van, Matthijsen, J., Stern, R., Zlatev, Z. & Langner, J. 2002: GLOREAM Aerosol Modelling Intercomparison. In: Borrego, C., Builtjes, P., Miranda, A.I., Santos, P. & Carvalho, A.C. (eds.): *Global and Regional Atmospheric Modelling*. Proceedings of the 6th GLOREAM Workshop, Aveiro, Portugal, 4-6 September 2002. Universidade de Aveiro. pp. 90-94.

Havasi, Á, Bozó, L. & Zlatev, Z. 2001: Model Simulation on the Transboundary Contribution to the Atmospheric Sulfur Concentration and Deposition in Hungary. - *IDŐJÁRÁS* 105(3): 135-144.

Hertel, O., Jensen, S.S., Berkowicz, R., Brandt, J. & Christensen, J. 2002: Modelling Concentrations of and Human Exposure to Air Pollution in Danish Cities. In: Midgley, P. & Reuther, M. (eds.): *Transport and Chemical Transformation in the Troposphere*. Proceedings of EUROTRAC-2 Symposium 2002. Margraf Verlag. 5 pp.

Hertel, O., Skjøth, C.A., Frohn, L.M., Vignati, E., Frydendall, J., de Leeuw, G., Schwarz, U. & Reis, S. 2002: Assessment of the Atmospheric Nitrogen and Sulphur Inputs into the North Sea using a Lagrangian Model. - *Physics and Chemistry of the Earth* 27: 1507-1515.

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Kemp, K. 2002: Trends and Sources for Heavy Metals in Urban Atmosphere. - *Nuclear Instruments and Methods in Physics Research B* 189: 227-232.

Le Bihan, O., Glasius, M., Jensen, B., Wählin, P. & Palmgren, F. 2002: Elemental Composition of Size-Segregated Particles Sampled Inside and Outside an Urban Apartment - First Results. A Contribution to Subproject SATURN. Poster presented at EUROTRAC-2 Symposium 2002,

Garmisch-Partenkirchen, Germany, 11-15 March 2002 In: Midgley, P. & Reuther, M. (Eds.): Transport and Chemical Transformation in the Troposphere. Proceedings of Eurotrac-2 Symposium 2002. Garmisch-Partenkirchen, Germany, 11-15 March 2002. Margraf Verlag. cd.

Lindberg, S.E., Brooks, S., Lin, C.-J., Scott, K.J., Landis, M.S., Stevens, R.K., Goodsite, M. & Richter, A. 2002: Dynamic Oxidation of Gaseous Mercury in the Arctic Troposphere at Polar Sunrise. - *Environmental Science and Technology* 36: 1245-1256.

Olesen, H.R. 2002: Introduction to the 8th Harmonisation Conference. In: Batchvarova, E. & Syrakov, D. (eds.): Eighth International Conference on Harmonisation within Atmospheric Dispersion Modelling for Regulatory Purposes, Sofia, Bulgaria, 14-17 October 2002. Proceedings. Demetra Ltd. pp. 2-5.

Olesen, H.R. 2001: Model Validation Kit - Recent Developments. - *International Journal of Environment and Pollution* 16(1-6): 129-136.

Owczarzewicz, W. & Zlatev, Z. 2002: Parallel Matrix Computations in Air Pollution Modelling. - *Parallel Computing* 28: 355-368.

Owczarzewicz, W. & Zlatev, Z. 2002: Running a Large-Scale Air Pollution Model on Fast Supercomputers. In: Chock, D.P. & Carmichael, G.R. (eds.): Atmospheric Modeling. Springer-Verlag. - IMA Volumes in Mathematics and its Applications 130: 185-204.

Tilmes, S., Brandt, J., Flatøy, F., Bergström, R., Flemming, J., Langner, J., Christensen, J.H., Ebel, A., Friedrich, R., Frohn, L.M., Heidegger, A., Hov, Ø., Jacobsen, I., Jacobs, H., Reimer, E., Stern, R., Wickert, B. & Zimmermann, J. 2002: Intercomparison of Eulerian Ozone Prediction Systems within GLOREAM for Summer 1999 Using the German Monitoring Data. In: Schaller, E., Builtjes, P. & Münzenberg, A. (eds.): 4th GLOREAM Workshop, Proceedings, 20-22 September 2000, Cottbus, Germany. pp. 17-23.

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[http://www.dmu.dk/atmosphericenvironment/gloream/Final\\_GLOREAM\\_WS\\_CB.pdf](http://www.dmu.dk/atmosphericenvironment/gloream/Final_GLOREAM_WS_CB.pdf)

Tilmes, S., Brandt, J., Flatøy, F., Bergström, R., Flemming, J., Langner, J., Christensen, J.H., Frohn, L.M., Hov, Ø., Jacobsen, I., Reimer, E., Stern, R. & Zimmermann, J. 2002: Comparison of Five Eulerian Air Pollution Forecasting Systems for the Summer of 1999 Using the German Ozone Monitoring Data. - *Journal of Atmospheric Chemistry* 42: 91-121.

Zlatev, Z. 2002: Comprehensive Air Pollution Studies by the Danish Eulerian Model. In: Borrego, C., Builtjes, P., Miranda, A.I., Santos, P. & Carvalho, A.C. (eds.): Global and Regional Atmospheric Modelling. Proceedings of the 6th GLOREAM Workshop, Aveiro, Portugal, 4-6 September 2002. Universidade de Aveiro. pp. 61-69.

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Zlatev, Z. 2002: Massive Data Set Issues in Air Pollution Modelling. In: Abello, J., Pardalos, P.M. & Resende, M.G.C. (eds.): Handbook of Massive Data Sets. Kluwer Academic Publishers. - *Massive Computing* 4: 1169-1220.

**Indlæg ved kongresser, symposier m.v./Conference presentations**

Alto, T., Bousquet, P., Brandt, J., Chevillard, A., Christensen, J.H., Frohn, L.M., Geels, C., Gloor, M., Gusti, M., Heimann, M., Houwelling, S., Karstens, U., Koerner, S., Peylin, P., Roedenbeck, C., Vermeulen, A. & Denning, A.S.: Intercomparison of Simulated Transport of CO<sub>2</sub> and Rn over Europe with Mesoscale Models: a Concerted Action within the AEROCARB Project. AGU: 2002 Spring Meeting, Washington, DC, USA, 28-31 May 2002.

Andersen, H.V.: Processer for tørdeposition. DSAR konference, Forskningscenter Risø, Roskilde, 29. oktober 2002.

Antonov, A., Georgiev, K., Komsalova, E. & Zlatev, Z.: Implementation of Bilinear Non-Conforming Finite Elements in an Eulerian Air Pollution Model: Results Obtained by Using the Rotational Test. Fifth International Conference on Numerical Methods and Applications - NM&A 02, Borovets, Bulgaria, 20-24 August 2002.

Barcza, Z., Haszpra, L., Tarczay, K., Geels, C., Kondo, H., Saigusa, N. & Yamamoto, S.: Long Term Carbon Dioxide Concentration and Flux Measurements in Hungary. Poster presented at FAO GTOS TCO CEE Terrestrial Carbon Warehouse Workshop, Prague, Czech Republic, 16-21 November 2002.

Barcza, Z., Haszpra, L., Tarczay, K., Geels, C., Kondo, H., Saigusa, N. & Yamamoto, S.: Long Term Carbon Dioxide Concentration and Flux Measurements in Hungary. FAO GTOS TCO CEE Terrestrial Carbon Warehouse Workshop, Prague, Czech Republic, 16-21 November 2002.

Bozó, L., Palmgren, F. & Sokhi, R.S.: Investigation of Aerosol Particles in Urban Areas. EUROTRAC-2 Symposium 2002, Garmisch-Partenkirchen, Germany, 11-15 March 2002.

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Brandt, J., Christensen, J.H. & Wählin, P.: Røg over landet den 4. og 10. september 2002. Poster præsenteret på DSAR konference, Forskningscenter Risø, Roskilde, 29. oktober 2002.

Brandt, J., Christensen, J.H., Frohn, L.M., Geels, C., Berkowicz, R., Løfstrøm, P., Skjøth, C.A., Hansen, K.M. & Hertel, O.: The THOR Integrated Air Pollution Forecast and Scenario System. Poster præsenteret på DSAR konference, Forskningscenter Risø, Roskilde, 29. oktober 2002.

Brandt, J., Christensen, J.H., Frohn, L.M., Geels, C., Fischer, M. & Christensen, M.B.: Luftforureningsudsigter og trafikscenarier. Natur- og Miljøforskningskonference, H.C. Ørsted Institutet, København, 22.-23. august 2002.

Brandt, J., Christensen, J.H., Frohn, L.M., Geels, C., Skjøth, C.A., Berkowicz, R., Løfstrøm, P. & Hertel, O.: The THOR Integrated Model System. A Contribution to Subproject GLOREAM. Poster presented at EUROTRAC-2 Symposium 2002, Garmisch-Partenkirchen, Germany, 11-15 March 2002.

Brandt, J., Geels, C., Christensen, J.H. & Frohn, L.M.: DEHM - a Hemispheric Nested Model for CO<sub>2</sub>. European Geophysical Society (EGS) XXVII General Assembly, Nice, France, 21-26 April 2002.

Brandt, J., Geels, C., Christensen, J.H. & Frohn, L.M.: DEHM Base Functions, Pre-Subtracted

Tracers and Validations. 3rd General AEROCARB Meeting, Barcelona, Spain, 4-5 November 2002.

Brandt, J., Geels, C., Christensen, J.H. & Frohn, L.M.: Testing Different Parameterizations of Terrestrial CO<sub>2</sub> Fluxes in a Hemispheric Nested Model. Poster presented at the 2nd CarboEurope Meeting, Budapest, Hungary, 4/5-8 March 2002.

Christensen, J.H., Brandt, J. & Frohn, L.M.: Modelling of Mercury with the Danish Eulerian Hemispheric Model. European Geophysical Society (EGS) XXVII General Assembly, Nice, France, 21-26 April 2002.

Dimov, I., Geernaert, G. & Zlatev, Z.: Influence of Future Climate Changes in Europe on Exceeded Ozone Critical Levels. A Contribution to Subproject GLOREAM. Poster presented at EUROTRAC-2 Symposium 2002, Garmisch-Partenkirchen, Germany, 11-15 March 2002.

Dimov, I., Georgiev, K. & Zlatev, Z.: Some Source - Receptor Relations Studied by the Danish Eulerian Model. 8th International Conference on Harmonisation within Atmospheric Dispersion Modelling for Regulatory Purposes, Sofia, Bulgaria, 14-17 October 2002.

Duyzer, J., Mclachlan, M., Bruhn, R., Zetzsch, C., Sweetman, A., Shatalov, V., Brörstrom-Lundén, E., Palm, A., Asman, W., Holoubek, I. & Milukaite, A.: Transport and Deposition of POPs. EUROTRAC-2 Symposium 2002, Garmisch-Partenkirchen, Germany, 11-15 March 2002.

Ellermann, T.: Ion Chromatography used in Air Quality Research and Monitoring. ESAC, Executive Seminars in Analytical Chemistry, The Copenhagen Marriott Hotel, Denmark, 9-10 April 2002.

Fenger, J. & Skov, H.: Indoor Pollution from Fire Places - from the Iron Age to Modern Time. The Symposium: Neue Wege zum alten Bauten - Interdisziplinäre Forschungen zum Thema Haus, Niedersächsisches Institut für Historische Küstenforschung, Wilhemshaven, 31 October-2 November 2002.

Fischer, M. & Brandt, J.: ALTEReco - City of Aalborg - Air Pollution Model. Conference on Transport and Air Pollution, Graz, Austria, TIDSPUNKT???

Frohn, L.M., Christensen, J.H., Brandt, J. & Hertel, O.: Air Pollution Modeling using a 3-D Hemispheric Nested Model. European Geophysical Society (EGS) XXVII General Assembly, Nice, France, 21-26 April 2002.

Frohn, L.M., Christensen, J.H., Brandt, J., Geels, C. & Hansen, K.M.: DEHM - et modelværktøj til vurdering af luftforurening. Natur- og Miljøforskningskonference, H.C. Ørsted Institutet, København, 22.-23. august 2002.

Geels, C., Christensen, J.H., Brandt, J. & Frohn, L.M.: Modellsimuleringer af atmosfærisk CO<sub>2</sub> over Europa. Natur- og Miljøforskningskonference, H.C. Ørsted Institutet, København, 22.-23. august 2002.

Geels, C., Frohn, L.M., Hansen, K.M., Brandt, J. & Christensen, J.H.: The Danish Eulerian Hemispheric Model - et modelværktøj med mange anvendelsesmuligheder indenfor luftforurening. Poster præsenteret på DSAR konference, Forskningscenter Risø, Roskilde, 29. oktober 2002.

Geernaert, G. & Zlatev, Z.: Testing the Influence of the Biogenic Emissions on High Ozone Levels

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Genikhovich, E., Ziv, A., Iakovleva, E., Berkowicz, R. & Palmgren, F.: Statistical Analysis of the Concentrations Measured in the Street Canyon in St. Petersburg. A Contribution to Subproject SATURN. Poster presented at EUROTRAC-2 Symposium 2002, Garmisch-Partenkirchen, Germany, 11-15 March 2002.

Genikhovich, E., Ziv, A., Iakovleva, E., Palmgren, F. & Berkowicz, R.: Study of Air Pollution in St. Petersburg Area. A Contribution to Subproject SATURN. Poster presented at EUROTRAC-2 Symposium 2002, Garmisch-Partenkirchen, Germany, 11-15 March 2002.

Goodsite, M.: Historiske niveauer af PB og Hg i det arktiske. DSAR konference, Forskningscenter Risø, Roskilde, 29. oktober 2002.

Gyldenkærne, S.: Danske ammoniakemissioner. DSAR konference, Forskningscenter Risø, Roskilde, 29. oktober 2002.

Hansen, K.M., Christensen, J., Brandt, J., Frohn, L.M. & Geels, C.: Modelling the Atmospheric Transport of a-HCH in the Northern Hemisphere: Preliminary Results. Understanding and Modelling the Regional and Global Scale Distribution and Fate of POPs Workshop, Lancaster, UK, 7-9 October 2002.

Hansen, K.M., Christensen, J.H., Brandt, J., Frohn, L.M. & Geels, C.: Modelling the Atmospheric Transport of a-HCH in the Northern Hemisphere: Preliminary Results. Poster præsenteret på DSAR konference, Forskningscenter Risø, Roskilde, 29. oktober 2002.

Hass, H., Loon, M. van, Matthijsen, J., Stern, R. & Zlatev, Z.: Continental Scale Aerosol Modelling. EUROTRAC-2 Symposium 2002, Garmisch-Partenkirchen, Germany, 11-15 March 2002.

Hertel, O.: Modeller for transport og afsætning af ammoniak. DSAR konference, Forskningscenter Risø, Roskilde, 29. oktober 2002.

Hertel, O., Jensen, S.S., Berkowicz, R., Brandt, J. & Christensen, J.: Modelling Concentrations of and Human Exposure to Air Pollution in Danish Cities. Contribution to Sub-Project SATURN. Poster presented at EUROTRAC-2 Symposium 2002, Garmisch-Partenkirchen, Germany, 11-15 March 2002.

Hvidberg, M. & Jensen, S.S.: A GIS Tool for Pre-Processing Route Information for Air Pollution Modelling. Poster presented at the Nordic GIS Conference: GI - Communication and Perspective, Aalborg, Denmark, 25-27 November 2002.

Jensen, S.S.: Application of Models for Preliminary Assessment. Models for Calculation Street Concentrations (OSPM). Workshop II on Assistance to Latvia on Implementation of the EU Ambient Air Quality Directive, Riga, Latvia, 22-23 October 2002.

Jensen, S.S.: Introduction to Preliminary Assessment based on Air Quality Modelling. Workshop II on Air Quality Assessment and Management, Sinaia, Romania, 13-14 May 2002.

Jensen, S.S., Hertel, O., Hvidberg, M., Kousgaard, U. & Hansen, H.S.: Modelling af personlig eksponering for trafikskabt luftforurening vha. GIS og GPS. Natur- og Miljøforskningskonference, H.C. Ørsted Institutet, København, 22.-23. august 2002.

Le Bihan, O., Glasius, M., Jensen, B., Wählin, P. & Palmgren, F.: Elemental Composition of Size-Segregated Particles Sampled Inside and Outside an Urban Apartment - First Results. A Contribution to Subproject SATURN. Poster presented at EUROTRAC-2 Symposium 2002, Garmisch-Partenkirchen, Germany, 11-15 March 2002.

Løfstrøm, P.: Lugtemissioner og spredningsmodeller - kan vi beregne hvor meget det lugter?. Inviteret foredrag ved møde i IDAmiljø om Lugt - måling, rensning og beregning bruges til på miljøområdet?, Ingeniørhuset, København, 19. november 2002.

Olesen, H.R.: Introduction to the 8th Harmonisation Conference. 8th International Conference on Harmonisation within Atmospheric Dispersion Modelling for Regulatory Purposes, Sofia, Bulgaria, 14-17 October 2002.

Ostrowsky, T. & Zlatev, Z.: Flexible Two-Level Parallel Implementations of a Large Air Pollution Model. Fifth International Conference on Numerical Methods and Applications - NM&A 02, Borovets, Bulgaria, 20-24 August 2002.

Palmgren, F.: De nye EU direktiver om luftkvalitet. Natur- og Miljøforskningskonference, H.C. Ørsted Institutet, København, 22.-23. august 2002.

Palmgren, F., Wählin, P. & Berkowicz, R.: Car Fleet Emissions of Particles and Other Pollutants Estimated from Urban Air Quality Measurements. A Contribution to Subproject SATURN. Poster presented at EUROTRAC-2 Symposium 2002, Garmisch-Partenkirchen, Germany, 11-15 March 2002.

Putaud, J.-P., Baltensperger, U., Facchini, M.-C., Fuzzi, S., Gehrig, R., Hansson, H.-C., Harrison, R.M., Jones, A.M., Laj, P., Maenhaut, W., Mihalopoulos, N., Palmgren, F., Querol, X., Raes, F., Rodriguez, S., Brink, H. ten, Tunved, P., Dingenen, R. van, Wehner, B., Weingartner, E., Wiedensohler, A. & Wählin, P.: Physical and Chemical Characteristics of Particulate Matter at Urban, Rural and Background Sites in Europe. A Contribution to Subproject AEROSOL. Poster presented at EUROTRAC-2 Symposium 2002, Garmisch-Partenkirchen, Germany, 11-15 March 2002.

Raaschou-Nielsen, O., Palmgren, F., Jensen, S.S., Wählin, P., Berkowicz, R., Hertel, O., Vrang, M.-L. & Loft, S.: Helbredseffekter af partikulær luftforurening i Danmark - et forsøg på kvantificering. Natur- og Miljøforskningskonference, H.C. Ørsted Institutet, København, 22.-23. august 2002.

Sameh, A. & Zlatev, Z.: Using Iterative Methods in the Solution of Sparse Linear Algebraic Systems. Fifth International Conference on Numerical Methods and Applications - NM&A 02, Borovets, Bulgaria, 20-24 August 2002.

Sigsgaard, T., Hertel, O., Kjærsgaard, P. & Høst, A.: Luftforurening og akut sygelighed i Odense. Natur- og Miljøforskningskonference, H.C. Ørsted Institutet, København, 22.-23. august 2002.

Skjøth, C.A., Hertel, O., Brandt, J., Christensen, J.H. & Frydendal, J.: Automated Mapping of the Nitrogen Deposition into the Baltic Sea. European Geophysical Society (EGS) XXVII General Assembly, Nice, France, 21-26 April 2002.

Skov, H.: Skæbne af Hg i Arktis. DSAR konference, Forskningscenter Risø, Roskilde, 29. oktober 2002.

Skov, H., Goodsite, M.E., Larsen, M.R.B., Christensen, J., Feilbergh, A. & Geernaert, G.: Akkumulering af atmosfærisk kviksølv i Arktis. Poster præsenteret på Natur- og Miljøforskningskonference, H.C. Ørsted Institutet, København, 22.-23. august 2002.

Wählin, P.: Atmosfærisk Pb på Station Nord 1991-2001. DSAR konference, Forskningscenter Risø, Roskilde, 29. oktober 2002.

Wählin, P.: DMU's partikelprojekt. IGAS temamøde om trafik, partikler og sundhed, Arbejds miljøinstituttet, København, 17. april 2002.

Wählin, P.: Foreløbige resultater af DMU's partikelmålinger af størrelsesfordelinger, PM10, herunder vurdering af bidrag fra forskellige kilder i byluft. Miljøstyrelsens seminar om luftforurening med partikler, Eigtveds Pakhus, København, 20. marts 2002.

Wählin, P. & Palmgren, F.: Hvordan beskriver vi partikelforureningen i relation til sundhed?. Natur- og Miljøforskningskonference, H.C. Ørsted Institutet, København, 22.-23. august 2002.

Wählin, P., Palmgren, F., Afshari, A., Gunnarsen, L., Nielsen, O.J., Bilde, M. & Kildesø, J.: Indoor and Outdoor Particle Measurements in a Street Canyon in Copenhagen. 9th International Conference on Indoor Air Quality and Climate, Monterey, California, June 30-July 5, 2002.

Ziv, A., Berkowicz, R., Iakovleva, E., Genikhovich, E. & Palmgren, F.: Emission Factors for Russian Car Fleet Determined from Backward Dispersion Calculations. A Contribution to Subproject SATURN. Poster presented at EUROTRAC-2 Symposium 2002, Garmisch-Partenkirchen, Germany, 11-15 March 2002.

Zlatev, Z.: Running Sparse Linear Least-Squares Problems on Shared Memory Computers. 2nd International Workshop on Parallel Matrix Algorithms and Applications (PMAA '02) and 3rd Workshop of the ERCIM Working Group on Matrix Computations and Statistics, Neuchâtel, Switzerland, 7-10 November 2002.

Zlatev, Z.: Using Partitioning in the Numerical Treatment of ODE Systems with Applications in Atmospheric Modeling. CS&E Spring 2002 Seminar Series, Purdue University, West Lafayette, Indiana, USA, February 26, 2002.

### **Øvrige videnskabelige publikationer/Other scientific publications**

Brandt, J., Christensen, J.H., Geels, C. & Frohn, L.M. 2002: Development of European Continental Scale Modelling System. AEROCARB. Second Periodic Report 01/03/2001-28/02/2002. European Commission. pp. 73-75.

Fenger, J. & Bruaset, U. (eds.) 2002: Climate Impacts on Energy Production and Energy use in the Nordic and Baltic Region. Workshop arranged by Nordic Energy Research. Thursday 8 - Friday 9. November 2001, Admiral Hotel, Copenhagen. Nordic Energy Research. (Electronic). Available at: [http://www.nefp.info/\\_upl/PROCEEDINGS-K\\_E-2001.doc](http://www.nefp.info/_upl/PROCEEDINGS-K_E-2001.doc)

Sivertsen, B., Clark, D. & Jensen, S.S. 2002: Preliminary Assessment of Air Quality in the Ploiesti Agglomeration. Assistance to Romania on Transposition and Implementation of EU Ambient Air Quality Directives. IDAQ-21, October 2002. COWI.\*

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### **Afhandlinger og disputater/Theses**

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Bruus Pedersen, M. & Scott-Fordsmand, J.J.: Kobberforurenet jord. Hvordan vurderer man farligheden?. Natur- og Miljøforskningskonference, H.C. Ørsted Institutet, København, 22.-23. august 2002.

Bruus Pedersen, M., Tybirk, K., Axelsen, J.A., Topping, C.J. & Odderskær, P.: Investigating the Effects of Reduced Pesticide Usage on Farmland Plants, Insects and Birds. Combining Monitoring and Modelling. SETAC Europe 12th Annual Meeting, Challenges in Environmental Risk Assessment and Modelling: Linking Basic and Applied Research, Vienna, Austria, 12-16 May 2002.

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Christensen, J.H.: Skæbne af olie i det marine miljø. The Baltic Carrier Oliespild 29. marts 2001. Vintermøde om grundvandsforurening, ATV-Møde, Vingstedcentret, Vejle, 5.-6. marts 2002.

Christensen, J.H., Andersen, O., Mortensen, J. & Hansen, A.B.: Oil Spill Identification - A Chemometric Approach. Poster presented at the 25th Arctic and Marine Oilspill Program (AMOP) Technical Seminar, Calgary, Alberta, Canada, 11-13 June 2002.

Christensen, J.H., Hansen, A.B., Andersen, O. & Mortensen, J.: Fate of Oil in the Marine

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Christensen, T.F., Diedrichsen, B., Adsersen, A., Ravn, H.W. & Buch Andersen, J.: Plantebiomarkørmønstre. Et screeningsprogram. Poster præsenteret på Natur- og Miljøforskningskonference, H.C. Ørsted Institutet, København, 22.-23. august 2002.

Dahllöf, I.: Marin økotoxikologi - baggrund og udfordringer. Natur- og Miljøforskningskonference, H.C. Ørsted Institutet, København, 22.-23. august 2002.

Daling, P.S., Faksness, L.-G., Hansen, A.B. & Stout, S.A.: Improved and Standardized Methodology for Oil Spill Fingerprinting. 25th Arctic and Marine Oilspill Program (AMOP) Techninal Seminar, Calgary, Alberta, Canada, 11-13 June 2002.

Damgaard, C.: Kan vi forudsige sandsynligheden for specifikke økologiske scenarier?. Natur- og Miljøforskningskonference, H.C. Ørsted Institutet, København, 22.-23. august 2002.

Damgaard, C.: Modelling Individual Plant Growth at a Variable Mean Density or at a Specific Spatial Setting. Conference on Mathematical Modelling of Population Dynamics, Bedlewo, Poland, June 24-28, 2002.

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Damgaard, C.: Modelling Plant Competition along an Environmental Gradient. British Ecological Society. Annual Meeting, University of York, UK, December 18-20, 2002.

Damgaard, C.: Quantifying the Invasion Probability of Genetically Modified Plants. SETAC Europe 12th Annual Meeting, Challenges in Environmental Risk Assessment and Modelling: Linking Basic and Applied Research, Vienna, Austria, 12-16 May 2002.  
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Elmegaard, N.: Activities Related to Non-Target Plant Risk Assessment in Denmark. Invited speech at Non-Target Plant Risk Assessment Workshop, Alexandria, Virginia, USA, January 15-17, 2002.

Elmegaard, N., Bruus Pedersen, M. & Strandberg, B.: Flora and Fauna in Glyphosate Tolerant Fodder Beet Fields. 2nd Meeting of the European Round Table on GMO Safety Research, Brussels, Belgium, 18th April 2002.

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Hansen, A.B., Christensen, J.H., Avnskjold, J. & Rasmussen, C.A.: Application of Combined GC-MS Fingerprinting and Multivariate Analysis for the Classification of Marine Oil Spills According to their Source Province. Poster presented at the 25th Arctic and Marine Oilspill Program (AMOP) Techninal Seminar, Calgary, Alberta, Canada, 11-13 June 2002.

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January 2002.

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Kristensen, C.V., Ravn, H.W. & Forchhammer, N.C.: Plantebiomarkørmønster. Vurdering af vandplanters følsomhed overfor herbicidet metsulfuron methyl. Poster præsenteret på Natur- og Miljøforskningskonference, H.C. Ørsted Institutet, København, 22.-23. august 2002.

Krogh, K.A., Vejrup, K.V., Mogensen, B.B., Halling-Sørensen, B. & Barcelò, D.: Determination of Nonionic Surfactants used as Adjuvants in Pesticides in Soil. Poster presented at SETAC Europe 12th Annual Meeting, Challenges in Environmental Risk Assessment and Modelling: Linking Basic and Applied Research, Vienna, Austria, 12-16 May 2002.  
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Mayer, P.: Solid Phase MicroExtraction of Hydrophobic Pollutants using Disposable SPME Fibers: Sensing Dissolved Concentrations in the pg/L Range. ESAC, Executive Seminars in Analytical Chemistry, The Copenhagen Marriott Hotel, Denmark, 9-10 April 2002.

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