

Publikationer 2001/Publications 2001

I denne liste gives en oversigt over artikler, rapporter, foredrag m.m. som DMU's medarbejdere har produceret i 2001. Listen er organiseret efter DMU's indsatsområder.

This section lists the articles, reports, conference contributions etc. produced by NERI staff members in 2001. The list is organized by research area.

Atmosfærisk miljø/Atmospheric Environment

A. Forskning/Research

Internationale videnskabelige publikationer med referee/International Scientific Publications

Aneja, V.P., Roelle, P.A., Murray, G.C., Southerland, J., Erisman, J.W., Fowler, D., Asman, W.A.H. & Patni, N. (2001): Atmospheric Nitrogen Compounds II: Emissions, Transport, Transformation, Deposition and Assessment. - *Atmospheric Environment* 35:1903-1911.

Antonov, A. (2001): Object-Oriented Framework for Large Scale Air Pollution Modeling. In: Margenov, S., Wańkiewicz, J. & Yalamov, P. (eds.): *Large-Scale Scientific Computing. Third International Conference, LSSC 2001, Sozopol, Bulgaria, June 6-10, 2001. Revised Papers.* Springer. - *Lecture Notes in Computer Science* 2179:247-254.

Asman, W.A.H. (2001): Modelling the Atmospheric Transport and Deposition of Ammonia and Ammonium: an Overview with Special Reference to Denmark. - *Atmospheric Environment* 35:1969-1983.

Bak, J. (2001): Uncertainties in Large Scale Assessments of Critical Load Exceedances. - *Water, Air, and Soil Pollution: Focus* 1(1-2): 265-280.

Barrie, L.A., Yi, Y., Leitch, W.R., Lohmann, U., Kasibhatla, P., Roelofs, G.-J., Wilson, J., McGovern, F., Benkovitz, C., Mélières, M.A., Law, K., Prospero, J., Kritz, M., Bergmann, D., Bridgeman, C., Chin, M., Christensen, J., Easter, R., Feichter, J., Land, C., Jeuken, A., Kjellström, E., Koch, D. & Rasch, P. (2001): A Comparison of Large-Scale Atmospheric Sulphate Aerosol Models (COSAM): Overview and Highlights. - *Tellus* 53B(5): 615-645.

Brandt, J., Christensen, J.H., Frohn, L.M. & Skjøth, C.A. (2001): Air Pollution Forecasting from Regional to Urban Street Scale - Validation and Comparison for Two Cities in Denmark. In: Keller, J. & Andreani-Aksojoglou, S. (eds.): *Proceedings of the 5th GLOREAM Workshop, Hotel Regina, CH-3823 Wengen, Switzerland, September 24-26, 2001.* Paul Scherrer Institut. General Energy Research. Laboratory of Atmospheric Chemistry. 8 pp. (Available at: http://people.web.psi.ch/keller_j/GLOREAM/WS2001/Final/Brandt2.pdf)

Brandt, J., Christensen, J.H., Frohn, L.M., Geernaert, G. & Berkowicz, R. (2001): Development of a New Operational Air Pollution Forecast System on Regional and Urban Scale. In: Gryning, S.-E. & Schiermeier, F.A. (eds.): *Air Pollution Modeling and Its Application XIV.* Kluwer Academic/Plenum Publishers. pp. 573-581.

Brandt, J., Christensen, J.H., Frohn, L.M. & Berkowicz, R. (2001): Integration of Regional, Urban Background and Street Canyon Models for Operational Air Pollution Forecasting. Subproject GLOREAM. In: Midgley, P.M., Reuther, M.J. & Williams, M. (eds.): Transport and Chemical Transformation in the Troposphere. Proceedings of EUROTRAC Symposium 2000. Springer. pp. 73-80.

Brandt, J., Christensen, J.H., Frohn, L.M. & Zlatev, Z. (2001): Operational Air Pollution Forecast Modelling Using the THOR System. - *Physics and Chemistry of the Earth (B)* 26(2): 117-122.

Brandt, J., Christensen, J.H., Frohn, L.M., Palmgren, F., Berkowicz, R. & Zlatev, Z. (2001): Operational Air Pollution Forecasts from European to Local Scale. - *Atmospheric Environment* 35(Supplement 1): S91-S98.

Brandt, J., Christensen, J.H., Frohn, L.M. & Berkowicz, R. (2001): Operational Air Pollution Forecasts from Regional Scale to Urban Street Scale. Part 1: System Description. - *Physics and Chemistry of the Earth (B)* 26(10): 781-786.

Brandt, J., Christensen, J.H., Frohn, L.M. & Berkowicz, R. (2001): Operational Air Pollution Forecasts from Regional Scale to Urban Street Scale. Part 2: Performance Evaluation. - *Physics and Chemistry of the Earth (B)* 26(10): 825-830.

Brandt, J., Christensen, J.H., Frohn, L.M. & Berkowicz, R. (2001): Validation of Regional and Urban Air Pollution Forecasts. A Contribution to Subproject GLOREAM. In: Midgley, P.M., Reuther, M.J. & Williams, M. (eds.): Transport and Chemical Transformation in the Troposphere. Proceedings of EUROTRAC Symposium 2000. Springer. 5 pp. On CD-ROM.

Brandt, J., Geels, C., Christensen, J.H. & Frohn, L.M. (2001): A Hemispheric Nested Model for CO₂. In: Keller, J. & Andreani-Aksojoglu, S. (eds.): Proceedings of the 5th GLOREAM Workshop, Hotel Regina, CH-3823 Wengen, Switzerland, September 24-26, 2001. Paul Scherrer Institut. General Energy Research. Laboratory of Atmospheric Chemistry. 16 pp.
(Available at: http://people.web.psi.ch/keller_j/GLOREAM/WS2001/Final/Brandt1.pdf)

Cocheo, V., Sacco, P., Boaretto, C., Saeger, E. de, Ballesta, P.P., Skov, H., Goelen, E., Gonzalez, N. & Caracena, A.B. (2001): Urban Benzene Pollution and Population Exposure. - *Newsletter - WHO Collaborating Centre for Air Quality Management and Air Pollution Control* 27: 2-6.

Feilberg, A., Poulsen, M.W.B., Nielsen, T. & Skov, H. (2001): Occurrence and Sources of Particulate Nitro-Polycyclic Aromatic Hydrocarbons in Ambient Air in Denmark. - *Atmospheric Environment* 35:353-366.

Fenger, J., Buch, E. & Jakobsen, P.R. (2001): Monitoring and Impacts of Sea Level Rise at Danish Coasts and Near Shore Infrastructures. In: Jørgensen, A.M.K., Fenger, J. & Halsnæs, K.: *Climate Change Research. Danish Contributions*. Danish Meteorological Institute/Danish Climate Centre. pp. 237-254.

Frohn, L.M., Christensen, J.H., Brandt, J. & Hertel, O. (2001): Development of a High Resolution Integrated Nested Model for Studying Air Pollution in Denmark. - *Physics and Chemistry of the Earth (B)* 26(10): 769-774.

- Georgiev, K. & Zlatev, Z. (2001): Fine-Grid Resolution in Danish Eulerian Model and an Implementation on SGI Origin 2000 Computer. In: Margenov, S., Wa•niewski, J. & Yalamov, P. (eds.): Large-Scale Scientific Computing. Third International Conference, LSSC 2001, Sozopol, Bulgaria, June 6-10, 2001. Revised Papers. Springer. - Lecture Notes in Computer Science 2179:272-280.
- Georgiev, K. & Zlatev, Z. (1999): Parallel Sparse Matrix Algorithms for Air Pollution Models. - Parallel and Distributed Computing Practices 2(4):429-442.
- Hertel, O., Jensen, S.S., Andersen, H.V., Palmgren, F., Wählin, P., Skov, H., Nielsen, I.V., Sørensen, M., Loft, S. & Raaschou-Nielsen, O. (2001): Human Exposure to Traffic Pollution. Experience from Danish Studies. - Pure and Applied Chemistry 73(1): 137-145.
- Hertel, O., Leeuw, F.A.A.M. de, Raaschou-Nielsen, O., Jensen, S.S., Gee, D., Herbarth, O., Pryor, S., Palmgren, F. & Olsen, E. (2001): Human Exposure to Outdoor Air Pollution. (IUPAC Technical Report). - Pure and Applied Chemistry 73(6): 933-958.
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- Jensen, S.S., Berkowicz, R., Hansen, H.S. & Hertel, O. (2001): A Danish Decision-Support GIS Tool for Management of Urban Air Quality and Human Exposures. - Transportation Research Part D 6(4): 229-241.
- Johansson, M., Alveteg, M., Amann, M., Bak, J., Bartnicki, J., Ekqvist, M., Forsius, M., Frohn, L., Geernaert, G., Gimeno, B., Guardans, R., Karvosenoja, N., Martin, F., Posch, M., Suutari, R. & Syri, S. (2001): Integrated Assessment Modeling of Air Pollution in Four European Countries. - Water, Air and Soil Pollution 130(1-4): 175-186.
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- Jørgensen, A.M.K., Fenger, J. & Halsnæs, K. (2001): Climate Change Research. Danish Contributions. Danish Meteorological Institute/Danish Climate Centre. 408 pp.
- Jørgensen, A.M.K., Fenger, J. & Halsnæs, K. (2001): The Scope of Human Induced Climate Change. In: Jørgensen, A.M.K., Fenger, J. & Halsnæs, K.: Climate Change Research. Danish Contributions. Danish Meteorological Institute/Danish Climate Centre. pp. 1-22.
- Leeuw, G. de, Cohen, L.H., Frohn, L.M., Geernaert, G., Hertel, O., Jensen, B., Jickells, T., Klein, L., Kunz, G.J., Lund, S., Moerman, M., Müller, F., Pedersen, B., Von Salzen, K., Schlünzen, K.H., Schulz, M., Skjøth, C.A., Sørensen, L.-L., Spokes, L., Tamm, S. & Vignati, E. (2001): ANICE: Atmospheric Inputs of Nitrogen Compounds into the North Sea. First Results. A Contribution to Subproject CAPMAN. In: Midgley, P.M., Reuther, M.J. & Williams, M. (eds.): Transport and Chemical Transformation in the Troposphere. Proceedings of EUROTRAC Symposium 2000. Springer. 5 pp. On CD-ROM.

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- Ostrowsky, T. & Zlatev, Z. (2001): Parallel Implementation of a Large-Scale 3-D Air Pollution Model. In: Margenov, S., Wa•niewski, J. & Yalamov, P. (eds.): *Large-Scale Scientific Computing. Third International Conference, LSSC 2001, Sozopol, Bulgaria, June 6-10, 2001. Revised Papers.* Springer. - *Lecture Notes in Computer Science* 2179:309-316.
- Ostrowsky, T., Dimov, I., Tzvetanov, I. & Zlatev, Z. (2001): Estimation of the Wheat Losses Caused by the Tropospheric Ozone in Bulgaria and Denmark. In: Vulkov, L., Wa•niewski, J. & Yalamov, P. (eds.): *Numerical Analysis and Its Applications. Second International Conference, NAA 2000, Rousse, Bulgaria, June 2000, Revised Papers.* Springer. - *Lecture Notes in Computer Science* 1988: 636-643.
- Ostrowsky, T., Owczarz, W. & Zlatev, Z. (2001): Computational Challenges in Large-Scale Air Pollution Modelling. In: *Conference Proceedings of the 2001 International Conference on Supercomputing, Sorrento, Italy, June 17-21, 2001.* ACM Press. pp. 407-418.
- Palmgren, F., Hansen, A.B., Berkowicz, R. & Skov, H. (2001): Benzene Emission from the Actual Car Fleet in Relation to Petrol Composition in Denmark. - *Atmospheric Environment* 35(Supplement 1): S35-S42.
- Palmgren, F., Wählin, P., Berkowicz, R. & Van Dingenen, R. (2001): Fine Particles from Traffic. In: Midgley, P.M., Reuther, M.J. & Williams, M. (eds.): *Transport and Chemical Transformation in the Troposphere. Proceedings of EUROTRAC Symposium 2000.* Springer. pp. 123-131.
- Raaschou-Nielsen, O., Hertel, O., Thomsen, B.L. & Olsen, J.H. (2001): Air Pollution from Traffic at the Residence of Children with Cancer. - *American Journal of Epidemiology* 153(5): 433-443.
- Skjøth, C.A., Brandt, J. & Christensen, J.H. (2001): Validation Methods in Meteorological and Air Pollution Modelling. In: Keller, J. & Andreani-Aksojoglu, S. (eds.): *Proceedings of the 5th GLOREAM Workshop, Hotel Regina, CH-3823 Wengen, Switzerland, September 24-26, 2001.* Paul Scherrer Institut. General Energy Research. Laboratory of Atmospheric Chemistry. 11 pp.
(Available at: http://people.web.psi.ch/keller_j/GLOREAM/WS2001/Final/Skjoth.pdf)
- Skov, H., Hansen, A.B., Lorenzen, G., Andersen, H.V., Løfstrøm, P. & Christensen, C.S. (2001): Benzene Exposure and the Effect of Traffic Pollution in Copenhagen, Denmark. - *Atmospheric Environment* 35: 2463-2471.
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Winther, M. (2000): A Model for Calculating the Fuel Use and Emissions from IFR Flights Using the New CORINAIR Guidelines. I: Joumard, R. (ed.): *Transports et Pollution de l'Air = Transport and Air Pollution*. 9ème Colloque = 9th Symposium, Avignon, 5-8 Juin = June 2000. Vol. 2: Communications par affiche = Poster Communications. INRETS. - Actes INRETS 70:487-492.

Wählin, P., Palmgren, F. & Dingenen, R. Van (2001): Experimental Studies of Ultrafine Particles in Streets and the Relationship to Traffic. - *Atmospheric Environment* 35(Supplement 1): S63-S69.

Zlatev, Z. (2001): Efficient Treatment of Large-Scale Air Pollution Models on Supercomputers. In: Alexandrov, V.N., Dongarra, J.J., Juliano, B.A., Renner, R.S. & Tan, C.J.K. (eds.): *Computational Science - ICCS 2001*. International Conference, San Francisco, CA, USA, May 2001, Proceedings, Part II. Springer. - *Lecture Notes in Computer Science* 2074: 82-91.

Zlatev, Z. (2001): Long-Term Computations with the Danish Eulerian Model. In: Keller, J. & Andreani-Aksojoglu, S. (eds.): *Proceedings of the 5th GLOREAM Workshop*, Hotel Regina, CH-3823 Wengen, Switzerland, September 24-26, 2001. Paul Scherrer Institut. General Energy Research. Laboratory of Atmospheric Chemistry. 9 pp. (Available at: http://people.web.psi.ch/keller_j/GLOREAM/WS2001/Final/Zlatev.pdf)

Zlatev, Z. (2001): Parallel Algorithms for the Chemical Part of Large Air Pollution Models. - *Mathematical Modeling* 13(3): 22-32.

Zlatev, Z. (2001): Partitioning ODE Systems with an Application to Air Pollution Models. - *Computers and Mathematics with Applications* 42: 817-832.

Zlatev, Z. (2001): Time-Integration Algorithms for the Computer Treatment of the Horizontal Advection in Air Pollution Models. In: Margenov, S., Wa•niewski, J. & Yalamov, P. (eds.): *Large-Scale Scientific Computing*. Third International Conference, LSSC 2001, Sozopol, Bulgaria, June 6-10, 2001. Revised Papers. Springer. - *Lecture Notes in Computer Science* 2179: 81-92.

Zlatev, Z., Dimov, I., Ostromsky, Tz., Geernaert, G., Tzvetanov, I. & Bastrup-Birk, A. (2001): Calculating Losses of Crops in Denmark Caused by High Ozone Levels. - *Environmental Modeling and Assessment* 6: 35-55.

Zlatev, Z., Geernaert, G. & Skov, H. (2001): Exceeded Ozone Critical Levels in Denmark. A Contribution to Subproject GLOREAM. In: Midgley, P.M., Reuther, M.J. & Williams, M. (eds.): *Transport and Chemical Transformation in the Troposphere*. Proceedings of EUROTRAC Symposium 2000. Springer. 6 pp. on CD-ROM.

Indlæg ved kongresser, symposier mv./Conference presentations

Asman, W.A.H., Münier, B. & Andersen, J.M.: A Decision Tool for Local Ammonia Policy. Poster presented at the Second International Nitrogen Conference-N2001, Bolger Conference Center, Potomac, Maryland, USA, 14-18 October 2001.

Berkowicz, R.: The European Research Network TRAPOS - Results and Achievements. The Third International Conference on Urban Air Quality. Measurement, Modelling and Management, Loutraki, Greece, 19-23 March 2001.

Berkowicz, R., Ketzel, M., Vachon, G., Louka, P., Rosant, J.-M., Mestayer, P.G. & Sini, J.-F.: Examination of Traffic Pollution Distribution in a Street Canyon Using the Nantes '99 Experimental Data and Comparison with Model Results. The Third International Conference on Urban Air Quality. Measurement, Modelling and Management, Loutraki, Greece, 19-23 March 2001.

Brandt, J., Christensen, J.H., Frohn, L.M. & Berkowicz, R.: Air Pollution Forecasting in Europe at Different Scales. 2nd International Conference on Air Pollution Modelling and Simulation (APMS01), Paris, France, 9-12 April 2001.

Brandt, J., Christensen, J.H., Frohn, L.M. & Berkowicz, R.: Air Pollution Forecasting from Regional to Urban Street Scale - Implementation and Validation for Two Cities in Denmark. European Geophysical Society (EGS) XXVI General Assembly. Urban Air Pollution Modelling, Nice, France, 25-30 March 2001.

Brandt, J., Christensen, J.H., Frohn, L.M. & Skjøth, C.A.: Air Pollution Forecasting from Regional to Urban Street Scale - Validation and Comparison of Two Cities in Denmark. Poster presented at the 5th GLOREAM Workshop, Wengen, Switzerland, 24-26 September 2001.

Brandt, J., Christensen, J.H., Frohn, L.M. & Skjøth, C.A.: Air Pollution Forecasting from Regional to Urban Street Scale - Validation and Comparison of Two Cities in Denmark. Poster præsenteret på DSAR konference, Eigtveds Pakhus, København, 15. november 2001.

Brandt, J., Geels, C. & Christensen, J.H.: CO₂ Invers Modelling Using DEHM. 2nd AEROCARB Modelling Workshop, Roskilde, Denmark, 29-31 August 2001.

Brandt, J., Geels, C. & Christensen, J.H.: CO₂ Nested Modelling Using DEHM. AEROCARB Workshop, Autrans, France, 14-15 March 2001.

Brandt, J., Geels, C., Christensen, J.H. & Frohn, L.M.: Quantifying Spatial and Temporal Variations of CO₂ Concentrations Using a Nested Hemispheric Model. 5th GLOREAM Workshop, Wengen, Switzerland, 24-26 September 2001.

Brandt, J., Geels, C., Christensen, J.H. & Frohn, L.M.: Quantifying Spatial and Temporal Variations of CO₂ Concentrations Using a Nested Hemispheric Model. Poster præsenteret på DSAR konference, Eigtveds Pakhus, København, 15. november 2001.

Christensen, J.: Modelling of Mercury with the Danish Eulerian Hemispheric Model. International Workshop on Trends and Effects of Heavy Metals in the Arctic, McLean, Virginia, 18-22 June 2001.

Christensen, J.: Modelling of Mercury with the Danish Eulerian Hemispheric Model. MEPOP - NMR - AMAP Mercury and POP Workshop, Roskilde, Denmark, 10-12 September 2001.

- Dimov, I., Geernaert, G. & Zlatev, Z.: Influence of Future Climate Changes in Europe on Exceeded Ozone Critical Levels. Poster præsenteret på DSAR konference, Eigtveds Pakhus, København, 15. november 2001.
- Fenger, J.: Climate and Energy - in a Nordic Context. VII Nordic Energy Research Conference, Hanaholmen Conference Center, Esbo, Finland, 29-30 November 2001.
- Fenger, J.: Danish Perceptions of Surprises and Extreme Events in the Greenhouse. International Conference and Workshop: A Sustainable Geoscope - Observing, Understanding and Managing the Transition to Sustainability, Berlin, 25-26 October 2001.
- Fenger, J.: Drivhuseffekten. Konference for miljømedarbejdere i kommunerne, Den kommunale Højskole, Grenaa, 9.-10. maj 2001.
- Fenger, J.: Energidialog. "Energieffektivisering i erhvervslivet". Konference arrangeret af Energistyrelsen og Foreningen for Energi og Miljø, Axelborg, København, 14. oktober 2001.
- Fenger, J. & Palmgren, F.: Vegetationens betydning for luftkvaliteten i byområder. Workshop om natur og sundhed, Forskningscentret for Skov og Landskab, Hørsholm, 21. juni 2001.
- Fenger, J., Buch, E. & Jakobsen, P.R.: Technical and Political Aspects of Sea Level Rise in Denmark. Poster presented at the XIIth Global Warming International Conference & Expo. The year 2001 Conference, Cambridge, UK, 8-11 April 2001.
- Frohn, L.M., Brandt, J. & Christensen, J.: Integrerede modelsystemer, status og visioner. DSAR konference, Eigtveds Pakhus, København, 15. november 2001.
- Frohn, L.M., Christensen, J.H. & Brandt, J.: 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.
- Gámez, A.J., Berkowicz, R., Ketzler, M., Lohmeyer, A. & Reichenbacher, W.: Determination of the "Non Exhaust Pipe" PM₁₀ Emissions of Roads for Practical Traffic Air Pollution Modelling. 7th International Conference on Harmonisation within Atmospheric Dispersion Modelling for Regulatory Purposes, Belgrate, Italy, 28-31 May 2001.
- Geels, C., Christensen, J.H., Frohn, L.M. & Brandt, J.: Quantifying Spatial and Temporal Variations of CO₂ Concentrations in Europe. Poster presented at the European Geophysical Society (EGS) XXVI General Assembly. Open Session on Mesoscale Transport of Air Pollution, Nice, France, 25-30 March 2001.
- Geels, C., Doney, S., Dargaville, R., Brandt, J. & Christensen, J.H.: Deconvolving the Sources of Short-Term Variability in Atmospheric CO₂ over Northern Hemisphere Continents - a Mesoscale Model Study. Poster presented at the Sixth International Carbon Dioxide Conference, Sendai, Japan, 1-5 October 2001.
- Geels, C., Doney, S.C., Dargaville, R., Brandt, J. & Christensen, J.H.: Deconvolving the Sources of Synoptic Variability in Continuous Atmospheric CO₂ Measurements over the Northern Hemisphere Continents: A

- Mesoscale Model Study. Poster præsenteret på DSAR konference, Eigtveds Pakhus, København, 15. november 2001.
- Geernaert, G.L.: Consequences of Climate Change. University of Tokyo, Japan, 19 November 2001.
- Geernaert, G.L.: Consequences of Climate Change. China Meteorological Administration, Beijing, China, 23 November 2001.
- Geernaert, G.L.: The Use of Air Pollution Modelling as a Framework for Research Policy Development. 3rd International Conference on Large-Scale Scientific Computations, Sozopol, Bulgaria, 6-10 June 2001.
- Georgiev, K. & Zlatev, Z.: Fine-Grid Resolution in Danish Eulerian Model and an Implementation on SGI Origin 2000 Computer. 3rd International Conference on Large-Scale Scientific Computations, Sozopol, Bulgaria, 6-10 June 2001.
- Goodsite, M., Shoty, W., Knudsen, K. & Roos, F.: The Post-Industrial Increase in the Atmospheric Background Level of Mercury, as Seen in an Ombrogenic Peat Core from the Faroe Islands. MEPOP - NMR - AMAP Mercury and POP Workshop, Roskilde, Denmark, 10-12 September 2001.
- Goodsite, M.E., Skov, H., McConville, G., Brooks, S., Meyers, T., Lindberg, S., Landis, M. & Stevens, R.K.: Dry Deposition Flux Measurements of Reactive Gaseous Mercury by Relaxed Eddy Accumulation using KCl Coated Annular Denuders as Reservoirs: Experience and Results from the Arctic (Barrow, Alaska). MEPOP - NMR - AMAP Mercury and POP Workshop, Roskilde, Denmark, 10-12 September 2001.
- Hertel, O.: Human Exposure to Pollution from Traffic. Experience from Recent Danish Studies. IUPAC International Symposium on Green Chemistry, New Delhi, India, 10-13 January 2001.
- Hertel, O.: Modeller for human eksponering. Sundhedsministeriets Miljømedicinske Forskningscenters 10-års jubilæum, Eigtveds Pakhus, København, 9. november 2001.
- Jensen, S.S.: Trafik, luftkvalitet og sundhed. Seminar om Miljøbiler arrangeret af VidenCenter for Elbiler, Danmark og Miløre Centre, Sverige, Dansk Design Center, København, 23. april 2001.
- Kastner-Klein, P., Berkowicz, R. & Fedorovich, E.: Evaluation of Scaling Concepts for Traffic-Produced Turbulence Based on Laboratory and Full-Scale Concentration Measurements in Street Canyons. The Third International Conference on Urban Air Quality. Measurement, Modelling and Management, Loutraki, Greece, 19-23 March 2001.
- Kemp, K.: Trends and Sources for Heavy Metals in Urban Atmosphere. Ninth International Conference on Particle-Induced X-ray Emission (PIXE) and its Analytical Applications. PIXE 2001, Guelph, Canada, 8-12 June 2001.
- Ketzel, M., Berkowicz, R., Flassak, T., Lohmeyer, A. & Kastner-Klein, P.: Adaption of Results from CFD-Models and Wind-Tunnels for Practical Traffic Pollution Modelling. 7th International Conference on Harmonisation within Atmospheric Dispersion Modelling for Regulatory Purposes, Belgirate, Italy, 28-31 May 2001.

Ketzel, M., Louka, P., Sahm, P., Guilloteau, E., Sini, J.-F. & Moussiopoulos, N.: Intercomparison of Numerical Urban Dispersion Models - Part II: Street Canyon in Hannover, Germany. The Third International Conference on Urban Air Quality. Measurement, Modelling and Management, Loutraki, Greece, 19-23 March 2001.

Ketzel, M., Wählin, P., Le Bihan, O. & Tyman, G.: Measurement of Ultrafine Particles in Copenhagen. NOSA Aerosol Symposium, Lund, Sweden, 8-9 November 2001.

Le Bihan, O., Wählin, P., Ketzel, M., Palmgren, F. & Berkowicz, R.: Application of Dispersion Modelling for Analysis of Particle Pollution Sources in a Street Canyon. The Third International Conference on Urban Air Quality. Measurement, Modelling and Management, Loutraki, Greece, 19-23 March 2001.

Louka, P., Ketzel, M., Sahm, P., Guilloteau, E., Moussiopoulos, N. & Sini, J.-F.: CFD Inter-Comparison on a Full-Scale Street-Canyon. 7th International Conference on Harmonisation within Atmospheric Dispersion Modelling for Regulatory Purposes, Belgirate, Italy, 28-31 May 2001.

Olesen, H.R.: A Platform for Model Evaluation. 7th International Conference on Harmonisation within Atmospheric Dispersion Modelling for Regulatory Purposes, Belgirate, Italy, 28-31 May 2001.

Olesen, H.R.: OML-modellen, international harmonisering og hjælpeværktøjer for modellører. DSAR konference, Eigtveds Pakhus, København, 15. november 2001.

Olesen, H.R.: Ten Years of Harmonisation Activities: Past, Present and Future. 7th International Conference on Harmonisation within Atmospheric Dispersion Modelling for Regulatory Purposes, Belgirate, Italy, 28-31 May 2001.

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Carstensen, J., Frohn, L.M. & Gustafsson, B.: Effect of Atmospheric Deposition of Nitrogen on Summer Algal Blooms in Kattegat. Poster presented at the 16th Biennial Conference of the Estuarine Research Federation - ERF 2001. An Estuarine Odyssey, The Tradewinds Conference Center, St. Pete Beach, Florida, USA, 4-8 November 2001.

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Case, R., Dahllöf, I., Holmström, C., Baillie, H. & Kjelleberg, S.: Assessing the Fraction of Culturable Bacterial Species on the Marine Alga *Delisea pulchra* by Molecular Techniques (*RpoB*-DGGE). Poster presented at the Ninth International Symposium on Microbial Ecology (ISME-9), Amsterdam, The Netherlands, 26-31 August 2001.

Christensen, P.B.: The Fate of Nutrient Loading in Danish Coastal Waters. Invited speech at Marine Environmental Division, National Institute for Resources and Environment, Agency of Industrial Science and Technology, Ministry of International Trade and Industry, Tsukuba, Japan, February 19, 2001.

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Conley, D.J.: Monitoring Long-Term Trends in Eutrophication and Nutrients in the Coastal Zone. Baltic Sea Science Congress 2001. Past, Present and Future - A Joint Venture, Stockholm, Sweden, 25-29 November 2001.

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Dahl, K., Carstensen, J., Lundsgaard, C. & Andersen, J.H.: Macroalgae Response on Changing Nutrient Load in the Open Kattegat. Perspectives Regarding the Future Challenge of Defining the Ecological Status by EU Directives. Baltic Sea Science Congress 2001. Past, Present and Future - A Joint Venture, Stockholm, Sweden, 25-29 November 2001.

Dalsgaard, T. & Thamdrup, B.: Anaerobic Ammonium Oxidation in Marine Sediments. ASLO 2001 Aquatic Sciences Meeting. Making Connections in the 21st Century, Albuquerque, New Mexico, February 12-16, 2001.

Fjordback, C. & Kronvang, B.: Interaction between Aquatic Macrophytes and Stream Hydraulics. Implications of Different Weed Cutting Methods. XXVIII Congress of the International Association of Theoretical and Applied Limnology (SIL), Monash University, Melbourne, Australia, February 4-10, 2001.

Friberg, N., Linderoth, U. & Baattrup-Pedersen, A.: Oxygen Profiles in Macrophyte Beds : Possible Implications of Stream Management on In-Stream Oxygen Concentrations. 2nd Symposium for European Freshwater Sciences - SEFS-2, University Paul Sabatier, Toulouse, France, July 8-12, 2001.

Hansen, H.O.: River Restoration in Europe - What is going on?. XXVIII Congress of the International Association of Theoretical and Applied Limnology (SIL), Monash University, Melbourne, Australia, February 4-10, 2001.

Hansen, H.O.: Restoration of the Skjern River - Denmark's Largest Restoration Project. Poster presented at XXVIII Congress of the International Association of Theoretical and Applied Limnology (SIL), Monash University, Melbourne, Australia, February 4-10, 2001.

Hansen, H.O.: Efforts for River Restoration in European Countries. Invited speech at the International Symposium on Environmentally Friendly Public Works for the 21st Century. Ecosystem Conservation Society, Tsuda Hall, Tokyo, Japan, November 1, 2001.

- Hansen, H.O.: Efforts for River Restoration in European Countries. Invited speech at the Symposium on the Nature Restoration of Rivers. Ecosystem Conservation Society, International Convention Center Pamir West, Sapporo, Japan, November 4, 2001.
- Hansen, H.O.: European Centre for River Restoration. Invited speech at 1st Workshop arranged by the Italian Centre for River Restoration - CIRF, Venice, Italy, July 7, 2001.
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- Hansen, J.L.S.: Forundersøgelser ved etablering af havvindmølleparker. Naturvårdsverkets seminarium om havvindmølleparker, Naturvårdsverket, Stockholm, Sverige, 27. juni 2001.
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- Hoffmann, C.C.: Planning for Wetlands in Denmark. National Goals and what have been done so far?. 324 NJF Seminar. New Wetlands in Agricultural Areas - Restoration, Construction and Impact on Nutrient Reduction and Biodiversity, Lund, Sweden, May 10-11, 2001.
- Iversen, H.L., Kronvang, B., Mogensen, B.B., Vejrup, K., Hansen, A.-M. & Hansen, L.B.: Pesticide Pathways, Transport and Sinks in Two Small Arable Danish Catchments. I: Pesticide Applications and Loss. 8th Symposium on the Chemistry and Fate of Modern Pesticides, The Royal Veterinary and Agricultural University, Copenhagen, Denmark, August 21-24, 2001.
- Jeppesen, E.: Fish Community Structure in BIOMAN Lakes. 2nd Workshop BIOMAN Project, University of Granada, Spain, March 7-9, 2001.
- Jeppesen, E.: Recovery from Eutrophication - Global Perspectives. Invited keynote speech at the 9th International Conference on Conservation and Management of Lakes, Otsu, Japan, November 13-16, 2001.
- Jeppesen, E.: Lake Response to Changes in Nutrient Loading with Special Focus on Resistance and How to Speed up the Recovery Process after Nutrient Loading Reduction. Invited keynote speech at the International Conference on Restoration and Management of Eutrophied Lakes, Kunming, China, November 18-22, 2001.
- Jeppesen, E.: The Structuring Role of Fish and Macrophytes in Lakes. Invited speech at the International Workshop on Shallow Lake Wetlands - Ecology, Eutrophication and Restoration, Middle East Technical University, Ankara, Turkey, November 28-30, 2001.

- Jeppesen, E.: Lakes Responses to Reduced Nutrient Loading with Special Focus on Resistance Phenomena. Invited speech at the International Workshop on Shallow Lake Wetlands - Ecology, Eutrophication and Restoration, Middle East Technical University, Ankara, Turkey, November 28-30, 2001.
- Jeppesen, E.: Inferring Biological Structure and Environmental State in the Past and at Present from Analyses of Biological Remains in the Sediment. Invited speech at the International Workshop on Shallow Lake Wetlands - Ecology, Eutrophication and Restoration, Middle East Technical University, Ankara, Turkey, November 28-30, 2001.
- Jeppesen, E., Søndergaard, M., Sammalkorpi, I. & Benndorf, J.: Biomanipulation as a Lake Rehabilitation Techniques. Past Experiences and Future Directions. Invited keynote speech at the 21st International Symposium of NALMS - North American Lake Management Society. 2001, A Lake Odyssey - Bridging the Gaps between Science, Policy and Practice, Madison, Wisconsin, USA, November 7-9, 2001.
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- Kronvang, B., Falkum, B. & Svendsen, L.M.: Deposition of Sediment and Phosphorus during Overbank Flooding. XXVIII Congress of the International Association of Theoretical and Applied Limnology (SIL), Monash University, Melbourne, Australia, February 4-10, 2001.
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- Kronvang, B., Strøm, H.L., Iversen, H.L., Hoffmann, C.C., Jørgensen, J.O., Laubel, A. & Vejrup, K.: Subsurface Drainage Loss of Modern Pesticides. A Comparison of Catchment and Experimental Field Results. Poster presented at the 8th Symposium on the Chemistry and Fate of Modern Pesticides, The Royal Veterinary and Agricultural University, Copenhagen, Denmark, August 21-24, 2001.
- Larsen, S.E. & Hansen, H.O.: Statistical Method for Testing Differences in Aquatic Macroinvertebrate Communities. Poster presented at XXVIII Congress of the International Association of Theoretical and Applied Limnology (SIL), Monash University, Melbourne, Australia, February 4-10, 2001.
- Laubel, A., Kronvang, B. & Fjordback, C.: Suspended Sediment Sampling from a Small Lowland Stream. XXVIII Congress of the International Association of Theoretical and Applied Limnology (SIL), Monash University, Melbourne, Australia, February 4-10, 2001.

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Lauridsen, T.: Status of Catchment Area, Nutrients and Macrophytes in the Danish BIOMAN Lakes. 2nd Workshop BIOMAN Project, University of Granada, Spain, March 7-9, 2001.

Lauridsen, T.L. & Wiggers, L.: Pesticides in a Mesotrophic Danish Lake and its Inlet. Poster presented at the 8th Symposium on the Chemistry and Fate of Modern Pesticides, The Royal Veterinary and Agricultural University, Copenhagen, Denmark, August 21-24, 2001.

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Maar, M., Gooding, S., Nielsen, T.G., Tønnesson, K., Zervoudaki, T., Tiselius, P., Sell, A. & Christou, E.: The Role of the Appendicularians versus Copepods in Grazing and Vertical Flux in the Skagerrak during Summer. ASLO 2001 Aquatic Sciences Meeting. Making Connections in the 21st Century, Albuquerque, New Mexico, 12-16 February 2001.

Müller-Wohlfeil, D.-I., Xu, C.-Y., Jensen, C. & Kronvang, B.: Estimating Monthly Discharge from Danish River Catchments. European Geophysical Society (EGS) XXVI General Assembly, Nice, France, March 25-30, 2001.

Müller-Wohlfeil, D.-I., Iversen, H.L., Larsen, S.E. & Kronvang, B.: Regional Assessment of Hydrological Response Patterns in Denmark. Poster presented at the European Geophysical Society (EGS) XXVI General Assembly, Nice, France, March 25-30, 2001.

Nielsen, B. & Friberg, N.: Emergence and Lateral Dispersal of *Leuctra fusca* and *Leuctra digitata* (Plecoptera) into Deciduous Forest, Coniferous Forest and Fallow Field. 2nd Symposium for European Freshwater Sciences - SEFS-2, University Paul Sabatier, Toulouse, France, July 8-12, 2001.

Nielsen, K., Sømod, B., Ellegaard, C. & Krause-Jensen, D.: Reference Conditions - a Case Study in Randers Fjord, Denmark. Poster presented at the 16th Biennial International Conference of the Estuarine Research Federation - ERF 2001, The Tradewinds Conference Center, Florida, USA, November 4-8, 2001.

Pedersen, M.L.: Physical Habitats and Macroinvertebrates in a Management Context. FBA Annual Scientific Meeting, University of London, UK, September 12-14, 2001.

Pedersen, M.L., Dieperink, C. & Kronvang, B.: The Ecological Effects of Reinstating Spawning Gravel as a Rehabilitation Measure in Danish Lowland Streams. Poster presented at XXVIII Congress of the International Association of Theoretical and Applied Limnology (SIL), Monash University, Melbourne, Australia, February 4-10, 2001.

Rasmussen, B. & Gustafsson, B.G.: Nutrient Pools and Fluxes at the Entrance to the Baltic Sea, 1974-1999. Poster presented at the Baltic Sea Science Congress 2001. Past, Present and Future - A Joint Venture, Stockholm, Sweden, 25-29 November 2001.

Rasmussen, B., Gustafsson, B.G., Stockenberg, A. & Ærtebjerg, G.: Nutrient Loads, Advection and Turnover at the Entrance to the Baltic Sea. Baltic Sea Science Congress 2001. Past, Present and Future - A Joint Venture, Stockholm, Sweden, 25-29 November 2001.

Schröder, H.K., Andersen, H.E., Hoffmann, C.C. & Kiehl, K.: Simulation der Vegetationsdynamik in Feuchtgrünland unter dem Einfluss sich wandelnder Standortbedingungen. 30. Jahrestagung der Gesellschaft für Ökologie. Ökosystemforschung und Ökosystem-Management, Kiel, Deutschland, 11.-15.9.2000.

Skriver, J., Baattrup-Pedersen, A. & Friberg, N.: Macrophytes, Macroinvertebrates and Fish in the Ecological Classification of Danish Streams. Preliminary Thoughts and Possibilities. Symposium on Classification of Ecological Status of Lakes and Rivers, Helsinki, Finland, November 9-11, 2001.

Skriver, J., Larsen, S.E. & Friberg, N.: Estimating Confidence Limits for Values of the Danish Stream Fauna Index (DSFI) by the Bootstrap Method. Poster presented at XXVIII Congress of the International Association of Theoretical and Applied Limnology (SIL), Monash University, Melbourne, Australia, February 4-10, 2001.

Stæhr, P.: Muligheder og begrænsninger ved remote sensing af fytoplankton i danske farvande. DSAR konference, Eigtveds Pakhus, København, 15. november 2001.

Taylor, M.W., Dahllöf, I., Schupp, P., Steinberg, P.D. & Kjelleberg, S.: Denaturing Gradient Gel Electrophoresis (DGGE)-Based Analyses of Bacterial Communities Associated with Marine Sponges. Poster presented at the Ninth International Symposium on Microbial Ecology (ISME-9), Amsterdam, The Netherlands, 26-31 August 2001.

Tiselius, P., Maar, M., Zervoudaki, T., Tonnesson, K., Gooding, S., Christou, E., Sell, A., Vargas, C., Petersen, J.K. & Nielsen, T.G.: Functional Response of the Appendicularian *Oikopleura dioica*. ASLO 2001 Aquatic Sciences Meeting. Making Connections in the 21st Century, Albuquerque, New Mexico, 12-16 February 2001.

Toompuu, A., Carstensen, J. & Möller-Karulis, B.: Space-Average Phytoplankton Concentration in the Kattegat and a Periodical Point Model. Baltic Sea Science Congress 2001. Past, Present and Future - A Joint Venture, Stockholm, Sweden, 25-29 November 2001.

Wendland, F., Kunkel, R., Grimvall, A., Kronvang, B. & Müller-Wohlfeil, D.-I.: Model System for the Management of Nitrogen Leaching at the Scale of River Basins and Regions. WATERMATEX 2000 5th International Symposium on Systems Analysis and Computing in Water Quality Management, Gent, Belgium, September 18-20, 2000.

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Hansen, A.S. (2001): Biological Modelling of Coastal Marine Ecosystems. PhD thesis. University of Copenhagen. Faculty of Science and National Environmental Research Institute. Department of Marine Ecology. 174 pp.

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Hansen, H.O. (2001): A Danish Classification System and Database for River Restoration Projects. In: Taugbøl, T. & L'Abée-Lund, J.H. (eds.): Physical Habitat Restoration in Canalised Watercourses - Possibilities and Constraints. Proceedings from the CONNECT-Workshop, Lillehammer, Norway, November 6-8, 2000. Norges vassdrags- og energidirektorat - NVE. pp. 81-84.

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Kronvang, B., Grant, R. & Laubel, A.R. (2001): Quantifying Phosphorus Pathways within Small Danish Arable Catchments. In: Haygarth, P.M., Condron, L.M., Butler, P.J. & Chisholm, J.S. (eds.): Connecting Phosphorus Transfer from Agriculture to Impacts in Surface Waters. Proceedings of the International Phosphorus Transfer Workshop 2001 - IPTW 2001, Robbins Centre, Plymouth University, Devon, UK, 28 August to 1 September, 2001 pp. 113.

Schröder, H.K., Andersen, H.E., Hoffmann, C.C. & Kiehl, K. (2000): Simulation der Vegetationsdynamik in Feuchtgrünland unter dem Einfluss sich wandelnder Standortbedingungen. - Verhandlungen der Gesellschaft für Ökologie Band 30:172.

B. Faglig rådgivning/Consultancy

Rådgivningsorienterede rapporter/Consultancy reports

Andersen, J.M., Sults, Ü., Jaani, A., Alekand, P., Roll, G., Sedova, A., Nefedova, J., Gorelov, P. & Kazmina, M. (2001): Strategy for Wastewater Treatment in the Lake Peipsi Basin. Project Report. Tartu, Estland: Peipsi Center for Transboundary Cooperation - CTC. 36 pp.

Boutrup, S., Svendsen, L.M., Bijl, L. van der, Andersen, J.M., Bøgestrand, J., Grant, R., Ellermann, T., Henriksen, P. Jensen, J.P., Stockmarr, J. & Laursen, K.D. (2001): Vandmiljø 2001. Tilstand og udvikling - faglig sammenfatning. Overvågningssektionen, Afdeling for Vandløbsøkologi, Afdeling for Atmosfærisk Miljø, Afdeling for Havmiljø og Afdeling for Sø- og Fjordøkologi. 62 s.- Faglig rapport fra DMU 379. (Findes også på: http://www.dmu.dk/1_viden/2_Publikationer/3_fagrappporter/rappporter/fr379.pdf)

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Henriksen, P., Andersen, J., Carstensen, J., Christiansen, T., Conley, D., Dahl, K., Dahllöf, I., Hansen, J.L.S., Josefson, A., Larsen, M.M., Lundsgaard, C., Markager, S., Nielsen, T.G., Pedersen, B., Rasmussen, B., Strand, J., Ærtebjerg, G., Fossing, H., Krause-Jensen, D., Middelboe, A.-L., Risgaard-Petersen, N., Ellermann, T., Hertel, O., Skjøth, C.A., Ovesen, N.B., Glasius, M., Pritzl, G. & Gustafson, B.G. (2001): Marine områder 2000 - Miljøtilstand og udvikling. NOVA 2003. Afdeling for Havmiljø, Afdeling for Sø- og Fjordøkologi, Afdeling for Atmosfærisk Miljø, Afdeling for Vandløbsøkologi og Afdeling for Miljøkemi. 110 s. - Faglig rapport fra DMU 375 (elektronisk).
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