

## Publikationer 1999/Publications 1999

Oversigt over artikler, rapporter, konferencebidrag mv. som DMU's medarbejdere har produceret i 1999. På listen er DMU's medarbejdere fremhævet med fed skrift.

List of articles, reports, conference contributions etc. produced by NERI staff members in 1999. NERI staff members are highlighted with bold letters.

Listen er organiseret efter indsatsområder/The list is organized by research area:

Samfund og Miljø/Society and Environment  
Arktisk Miljø og Natur/The Arctic Environment  
Miljøfremmede Organismer/Genetically Modified Organisms  
Miljøfremmede Stoffer/Xenobiotic Compounds  
Luftforurening/Atmospheric Pollution  
Ferskvand/Freshwater  
Marint Miljø og Natur/The Marine Environment  
Terrestrisk Miljø og Natur/The Terrestrial Environment  
Faglig, Tværgående Indsats/Cross-Disciplinary Research

# Publikationsliste

## 301 samfund og Miljø/Society and the Environment

### Internationale videnskabelige publikationer

**Carstensen, J. & Harremoës, P. (1999):** Gray-Box Modeling Approach for Description of Storage Tunnel. - Journal of Hydraulic Engineering 125(1):17-25.

**Hansen, H.S. (1999):** Computing LISA Statistics with Generalised Weighting Functions. In: Stubkjær, E. & Hansen, H.S. (eds.): ScanGIS'99. Proceedings of the 7th Scandinavian Research Conference on Geographical Information Science, 7-9 June 1999, Aalborg, Denmark. Aalborg University Press. pp. 99-109.

**Hansen, H.S. (1999):** Integrating Digital Maps and Administrative Registers. Danish Experiences. In: Fendel, E.M. (ed.): Proceedings of UDMS'99. 21st Urban Data Management Symposium, Venice, Italy, 21-23 April 1999. Information Technology in the Service of Local Government Planning and Management. Delft: Urban Data Management Society. 11 pp. on CD-ROM.

**Jensen, J.J. (1999):** A Spatial Optimisation Model for Wetlands Restoration Planning Integrating GIS and Linear Programming. In: Helles, F., Holten-Andersen, P. & Wichmann, L. (eds.): Multiple Use of Forests and Other Natural Resources. Aspects of Theory and Application. Kluwer Academic Publishers. - Forestry Sciences 61:194-204.

**Jensen, J.J. (1999):** Cartographic Modelling of N-removal in Wet Meadows. A Model to Support Regional Scale Restoration Planning. In: Stubkjær, E. & Hansen, H.S. (eds.): ScanGIS'99. Proceedings of the 7th Scandinavian Research Conference on Geographical Information Science, 7-9 June 1999, Aalborg, Denmark. Aalborg University Press. pp. 227-246.

**Jensen, M. (1999):** Passion and Heart in Transport - a Sociological Analysis on Transport Behaviour. - Transport Policy 6(1):19-33.

**Jensen, S.S. (1999):** A Decision-Support GIS Tool for Management of Urban Air Quality and Human Exposures. In: Sturm, P.J. (ed.): 8th International Symposium "Transport and Air Pollution" including COST 319 Final Conference. Graz, Austria, 31 May - 2 June 1999. Technical University Graz. Institute for Internal Combustion Engines and Thermodynamics. - Report of the Institute for Internal Combustion Engines and Thermodynamics 76:389-401.

**Jensen, S.S. (1999):** A Geographic Approach to Modelling Traffic Air Pollution Exposures. In: Hertel, O., Zlatev, Z., Larsen, S. & Mikkelsen, T. (eds.): Modelling Physical and Chemical Processes in the Atmosphere. Proceedings of a Risø-NERI Workshop, Roskilde, Denmark, 12-13 March 1998. National Environmental Research Institute. pp. 3-13.

**Münier, B., Bruun, H.G. & Nygaard, B. (1999):** A Biotope Model for Predicting Plant Community Distribution. In: Stubkjær, E. & Hansen, H.S. (eds.): ScanGIS'99. Proceedings of the 7th Scandinavian Research Conference on Geographical Information Science, 7-9 June 1999, Aalborg, Denmark. Aalborg University Press. pp. 215-226.

**Møller, F. & Wier, M. (1999):** Indirect and Avoided Environmental Consequences in Project Evaluation. - Journal of Environmental Planning and Management 42(4):489-500.

**Stubkjær, E. & Hansen, H.S. (eds.) (1999):** ScanGIS'99. Proceedings of the 7th Scandinavian Research Conference on Geographical Information Science, 7-9 June 1999, Aalborg, Denmark. Aalborg University Press. 274 pp.

**Wier, M. & Hasler, B. (1999):** Accounting for Nitrogen in Denmark - a Structural Decomposition Analysis. - Ecological Economics 30:317-331.

**Wier, M., Hasler, B. & Andersen, J.M. (1999):** Evaluating Consequences of Agricultural Policy Measures in an Integrated Economic and Environmental Model System. In: Usó, J.L. & Brebbia, C.A.: Ecosystems and Sustainable Development II. WIT Press. pp. 113-122.

**Winther, M. (1999):** An Air Traffic Emission Inventory for Denmark in 1997 using the Detailed CORINAIR Calculation Methodology - and Suggestions for Improvements. In: Sturm, P.J. (ed.): 8th International Symposium "Transport and Air Pollution" including COST 319 Final Conference. Graz, Austria, 31 May - 2 June 1999. Technical University Graz. Institute for Internal Combustion Engines and Thermodynamics. - Report of the Institute for Internal Combustion Engines and Thermodynamics 76:431-440.

## **DMU rapporter**

**Andersen, J.M.** (1999): Estimering af emission af metan og lattergas fra landbruget (baseret på IPCC's estimationsmetode). Samfund og miljø - Integrerede Miljøinformationssystemer (IMIS). Afdeling for Systemanalyse. 47 s.- Arbejdsrapport fra DMU 116.

**Bastrup-Birk, A., Tybirk, K., Wier, M. & Emborg, L.** (1999): Tålegrænser for luftforurening: Anvendelse i strategisk miljøplanlægning. Integreret MiljøInformationssystem IMIS-luftforurening. Afdeling for Systemanalyse og Afdeling for Terrestrisk Økologi. 123 s.- Faglig rapport fra DMU 269.

**Illerup, J.B., Geertinger, A., Hoffmann, L. & Christiansen, K.** (1999): Emissionsfaktorer for tungmetaller 1990 - 1996. Afdeling for Systemanalyse. 66 s.- Faglig rapport fra DMU 301.

**Kveiborg, O.** (1999): Bilparkmodel. Beregning af udvikling og emissioner. ALTRANS. Afdeling for Systemanalyse. 84 s.- Faglig rapport fra DMU 294.

**Wier, M. & Calverley, C.** (1999): Forbrug af økologiske fødevarer. Del 1: Den økologiske forbruger. Afdeling for Systemanalyse. 132 s.- Faglig rapport fra DMU 272.

**Winther, M.** (1999): Analyse af emissioner fra vejtrafikken. Sammenligning af emissionsfaktorer og beregningsmetoder i forskellige modeller. Afdeling for Systemanalyse. 120 s.- Faglig rapport fra DMU 265.

**Winther, M., Illerup, J.B., Fenhann, J. & Kilde, N.** (1999): The Danish CORINAIR Inventories. Time Series 1975-1996 of Emissions to the Atmosphere. Department of Policy Analysis. 81 pp.- NERI Technical Report 287.

## **Øvrige faglige artikler, rapporter og bogbidrag**

**Andersen, J.M., Sommer, S.G., Hutchings, N.J., Kristensen, V.F. & Poulsen, H.D.** (1999): Emission af ammoniak fra landbruget. Status og kilder. Danmarks Jordbrugsforskning. 71 s. - Ammoniakfordampning - redegørelse 1.

**Bergmann, M., Christensen, L., Donovan, L., Gonzáles, R., Güller, P., Penn-Bressel, G., Ramjerdi, F. & Snickars, F.** (eds.) (1999): Mobile Sources of Urban Air Pollution. Final Report. European Commission. 83 pp. - EUR 18544 EN - COST - CITAIR Programme - Action 616.

**Christensen, L.** (1999): Betydningen af kollektiv trafiks service for transportmiddelvalg. I: Lohmann-Hansen, A. & Pittelkow, A. (red.): Trafikdage på Aalborg Universitet 30.-31. august 1999. Konferencerapport 1. Transportrådet og Aalborg Universitet. Trafikforskningsgruppen. - ISP's skriftserie 238:249-259.

**Christensen, P.B.** (1999): Fokus på dansk miljøforskning. - *Aktuel Naturvidenskab* 2:36.

*Danmarks Miljøundersøgelser (bidragyder)* (1999): Miljø- og energiområdet. I: *Strukturovervågning. International benchmarking af Danmark.* Regeringen. s.213-243.

*Danmarks Miljøundersøgelser (bidragyder)* (1999): State of the Environment Reporting Information System (SERIS). An Internet Based Documentation of State of the Environment Reports in European Countries. European Environment Agency. <http://service.eea.eu.int/seris/files/main.shtml> (Visited December 23, 1999).

**Estrela, T., Kristensen, P. & Lallana, C.** (1999): Water Stress. In: *Environment in the European Union at the Turn of the Century.* European Environment Agency. - *Environmental Assessment Report* 2:155-181.

**Felding, G., Asman, W.A.H. & Spliid, N.H.** (1999): Belastning af landjorden med pesticider via nedbør - Wet Deposition of Pesticides in Denmark. Preliminary Studies. I: 16. Danske Planteværnskonference. Pesticider og miljø. Ukrudt. Danmarks Jordbrugsforskning. - *DJF rapport.* Markbrug 2(9):71-87.

**Gentile, A.R.** With contributions from **P. Kristensen** (1999): Soil Degradation. In: *Environment in the European Union at the Turn of the Century.* European Environment Agency. - *Environmental Assessment Report* 2:183-201.

**Gudmundsson, H.** (1999): Reduktion af miljøbelastning med faktor 4 og faktor 10. Case-studie i faktor 4/10 konceptet for personbilområdet. I: Lohmann-Hansen, A. & Pittelkow, A. (red.): Trafikdage på Aalborg Universitet 30.-31. august 1999. Konferencerapport 1. Transportrådet og Aalborg Universitet. Trafikforskningsgruppen. - ISP's skriftserie 238:341-351.

**Gudmundsson, H. & Grell, H.** (1999): Mobility Management konference - maj 1998. ECOMM 98 konferencen. Miljøstyrelsen. 51 s. - Miljøprojekt 458.

**Gudmundsson, H. & Nielsen, T.S. (1999):** Extended Summary of: Reduction of Environmental Pressure from Car Transport. Case Study of Eco-Efficiency in the Danish Transport Sector. In: Factors 4 and 10 in the Nordic Countries. The Transport Sector - the Forest Sector - the Building and Real Estate Sector - the Food Supply Chain. Nordic Council of Ministers. - TemaNord 1999:528:1-28 (second section).

**Gudmundsson, H. & Nielsen, T.S. (1999):** Reduction of Environmental Pressure from Car Transport - Extended Summary. Case Study of Eco-Efficiency in the Danish Transport Sector. Danish Environmental Protection Agency. 28 pp. - Environmental Project 459.

**Güller, P., Maibach, M., Neuenschwander, R. together with the members of the COST 616 Management Committee (eds.). With contributions from L. Christensen (1998):** Gaining Breath ... and Time. Learning Scheme for the Assessment and Shaping of Environment-Oriented Urban Transport Policies. European Commission. 57 pp. - EUR 18543 EN - COST - Action 616.

**Hansen, H.S. (1999):** Databaseteknologi. I: Balstrøm, T., Jacobi, O. & Sørensen, E.M. (red.): GIS i Danmark 2. Teknisk Forlag. s. 79-88.

**Hansen, H.S., Skov, F. & Skop, E. (1999):** GIS i miljøforskningen. I: Balstrøm, T., Jacobi, O. & Sørensen, E.M. (red.): GIS i Danmark 2. Teknisk Forlag. s. 213-224.

**Hasler, B., Schou, J., Jensen, J.D., Blicher-Mathiesen, G. & Kristensen, K. (1999):** Kvælstofanvendelsen i dansk landbrug - økonomi og kvælstofudvaskning. Analyse af metoder og scenarier. Miljøstyrelsen. (u. pag.). - Miljøprojekt 461. <http://www.mst.dk/199902publikat/87-7909-204-7/default.htm> (visited July 14, 1999) Udkommer kun elektronisk.

**Hasler, B., Wier, M. & Andersen, J.M. (1999):** Integrated Modeling of Changes in Agricultural Policy, Environmental and Economic Effects. - Nordisk Jordbruksforskning 81(3):450-458.

**Jensen, M. (1999):** Moderne mennesker og mobilitet. I: Lohmann-Hansen, A. & Pittelkow, A. (red.): Trafikdage på Aalborg Universitet 30.-31. august 1999. Konferencerapport 2. Transportrådet og Aalborg Universitet. Trafikforskningsgruppen. - ISP's skriftserie 238:575-587.

**Jensen, S.S., Kousgaard, U., Christensen, L. & Rich, J.H. (1999):** Integreret Miljøinformationssystem (IMIS) indenfor bymiljø og trafik. I: Lohmann-Hansen, A. & Pittelkow, A. (red.): Trafikdage på Aalborg Universitet 30.-31. august 1999. Konferencerapport. Supplementsbind. Transportrådet og Aalborg Universitet. Trafikforskningsgruppen. - ISP's skriftserie 238:3-11.

**Kristensen, P., Anderson, L. & Denisov, N. (1999):** A Checklist for State of the Environment Reporting. European Environment Agency. 24 pp. - Technical Report 15.

**Kveiborg, O. (1999):** Forecasting Developments of the Car Fleet in the Altrans Model. In: Lohmann-Hansen, A. & Pittelkow, A. (red.): Trafikdage på Aalborg Universitet 30.-31. august 1999. Konferencerapport 1. Transportrådet og Aalborg Universitet. Trafikforskningsgruppen. - ISP's skriftserie 238:23-35.

**Kveiborg, O. (1999):** Forecasting Developments of the Car Fleet in the Altrans Model. Third Workshop of the Nordic Research Network on Modelling Transport, Land-Use and the Environment, Trondheim, March 26-28, 1999. 16 pp. <http://www.infra.kth.se/tlenet/meet3/papers/ole/ole.html> (visited January 18, 1999). Online only.

**Kveiborg, O. (1999):** Pricing Externalities of Transport. Fourth Workshop of the Nordic Research Network on Modelling Transport, Land-Use and the Environment, Svinkløv, October 1-3, 1999. 7 pp. <http://www.infra.kth.se/tlenet/meet4/papers/Kveib.rtf> (visited January 18, 1999). Online only.

**Møller, F. (1999):** Restaurering af vandløb - kan det betale sig? I: Hansen, H.O. (red.): Proceedings fra seminar om restaurering og vedligeholdelse af vandløb 12.-13. oktober 1999. Vandløbsøkologi. Danmarks Miljøundersøgelser. - Arbejdsrapport fra DMU 114:47-48.

**Nielsen, T.S. & Gudmundsson, H. (1999):** Reduktion af biltransportens miljøbelastning med faktor 4 og faktor 10. Case studie af eco-efficiency i transportsektoren. Miljøstyrelsen. 157 s. - Miljøprojekt 445.

**Rich, J.H. (1998):** Behavioural Statistical Analysis of Transport Surveys. Using Marketing Research Methods. Second Workshop of the Nordic Research Network on Modelling Transport, Land-Use and the Environment, Pärnu, Estland, October 4-6, 1998. 17 pp. <http://www.infra.kth.se/tlenet/meet2/marketin.doc> (visited January 18, 1999). Online only.

**Rich, J.H.** (1999): Choice of Residential Location and Workplaces for Two-Worker Households. Third Workshop of the Nordic Research Network on Modelling Transport, Land-Use and the Environment, Trondheim, March 26-28, 1999. 26 pp. <http://www.infra.kth.se/tlenet/meet3/papers/jeppe/jeppe.html> (visited January 18, 1999). Online only.

**Rich, J.H. & Kveiborg, O.** (1998): Prototypical Sample Enumeration using Log-Transformed QUAD Optimisation. Simulation Experiments and Evidence from a Danish National Transport Survey. Second Workshop of the Nordic Research Network on Modelling Transport, Land-Use and the Environment, Pärnu, Estland, October 4-6, 1998. 18 pp. <http://www.infra.kth.se/tlenet/meet2/parnu981.html> (visited January 17, 1999). Online only.

**Rom, H.B., Petersen, J., Sommer, S.G., Andersen, J.M., Poulsen, H.D., Kristensen, V.F., Hansen, J.F., Kyllingsbæk, A. & Jørgensen, V.** (1999): Teknologiske muligheder for reduktion af ammoniakfordampningen fra landbruget. Danmarks JordbrugsForskning. 78 s. - Ammoniakfordampning - redegørelse 2.

**Sand-Jensen, K. & Christensen, P.B.** (1999): Kursen er lagt: Fremad zig-zag. Dansk forskning er betænkelig afhængig af kortsigtede programmidler. - *Aktuel Naturvidenskab* 1:54-56.

**Sørensen, C.H.** (1999): Trafikministeriet og miljø - en historisk analyse. I: Lohmann-Hansen, A. & Pittelkow, A. (red.): Trafikdage på Aalborg Universitet 30.-31. august 1999. Konferencerapport 1. Transportrådet og Aalborg Universitet. Trafikforskningsgruppen. - *ISP's skriftserie* 238:289-299.

**Sørensen, L. & Kilde, N.** (developed further by Rypdal, K., Kalivoda, M., Kudrna, M., Falk, R. & Winther, M.) (1999): Air Traffic. In: UNECE/EMEP Task Force on Emission Inventories: EMEP/CORINAIR Atmospheric Emission Inventory Guidebook. 2. ed. European Environment Agency. pp. B851-1 - B851-30. <http://themes.eea.eu.int/binary/g/group8.pdf> (visited January 17, 1999).

**Wyatt, B.K., Kristensen, P., Anderson, L.S. & Denisov, N.** (1998): State of the Environment Reporting. Institutional and Legal Arrangements in Europe. Final Report to the European Environment Agency. Monks Wood: Natural Environment Research Council. Institute of Terrestrial Ecology. 33 pp. + appendices.

#### **Populærfaglig formidling m.v.**

**Christensen, L.** (1999): Tiltrækker serviceforbedring af den kollektive trafik nok kunder? - Transportrådets Nyhedsbrev 4:24-26.

**Gudmundsson, H. & Nielsen, T.S.** (1999): Reduktion af bilers miljøbelastning med faktor 4 og faktor 10. - Transportrådets Nyhedsbrev 2:9-10.

**Hansen, H.S.** (1999): Visualisering af geodata. - *DAiSI. Medlemsmagasinet* 6:2-5.

**Hasler, B. & Eigaard, P.** (1999): Landbrug og tilskudsordninger i Bjerringbro/Hvorslev. - *Grænser i landskabet* 6:12-15.

**Hertel, O. & Jensen, S.S.** (1999): SOEH - konference i Washington, DC, USA. - *Miljø og sundhed* 10:21-22.

**Illerup, J.B., Winther, M., Lyck, E. & Fenger, J.** (1999): Hvor kommer luftforureningen fra? Fakta om kilder, stoffer og udvikling. Afdeling for Systemanalyse og Afdeling for Atmosfærisk Miljø. 32 s.- *TEMA-rapport fra DMU* 29/1999.

**Jensen, M.** (1999): ...halvt fuldendt. I: Bus-tog terminaler. Evaluering af tre terminalprojekter. HT/DSB/Banestyrelsen. s. 31.

**Jensen, S.S.** (1999): Befolkningens eksponering med luftforurening fra trafik. - *Dansk Vejtidskrift* 9:9-10.

**Jensen, S.S.** (1999): Model for befolkningens eksponering med luftforurening fra trafik. - Transportrådets Nyhedsbrev 2:18-19.

**Jensen, S.S.** (1999): Små partikler er farlige. - *Dansk Vejtidskrift* 9:18-19.

**Utzon-Frank, T., Andersen, B., Hansen, R.M., Marcher, F., Munck-Kampmann, B., Jørgensen, B.B., Andersen, J.M., Christensen, N., Kristensen, P. & Stockmarr, J.** (red.) (1999): Natur og Miljø 1998. Udvalgte indikatorer. Miljø- og Energiministeriet. 55 s.

**Winther, M.** (1999): Vejtrafikkens luftudslip. - *Dansk Vejtidskrift* 9:11-12.

**Indlæg ved kongresser, symposier m.v.**

**Bach, H.:** Miljøet og naturen i tværfaglig miljøforskning. Dansk Miljøforskning 1999, H.C. Ørsted Institutet, København, 19.-20. august 1999.

**Bak, J. & Tybirk, K.:** Status og perspektiver for ammoniak i naturen - før og efter en dansk handlingsplan. Dansk Miljøforskning 1999, H.C. Ørsted Institutet, København, 19.-20. august 1999.

**Christensen, L.:** Betydningen af kollektiv trafiks service for transportmiddelvalg. TØF's 16. Årskonference om Regional og Lokal Kollektiv Trafik, Tårnborghotel, Korsør, 29. september - 1. oktober 1999.

**Christensen, L.:** Betydningen af kollektiv trafiks service for transportmiddelvalg. Trafikdage på Aalborg Universitet 1999, 30.-31. august 1999.

**Christensen, L.:** Bystruktur og transportmønster belyst gennem Transportvaneundersøgelsen. Seminar for regional- og byforskere, Svinkløv, 29.-30. september 1999.

**Eigaard, P.R. & Münier, B.:** Analysis of Landscape Development in a Spatio-Temporal GIS. 14th ESRI European User Conference, Munich, Germany, 15-17 November 1999.

**Fenger, J.:** Status, udvikling og tendenser. Bilisme og miljø. Konference om Trafik og luftforurening, Skejby Sygehus, Århus, 11. januar 1999.

**Frederiksen, P.:** Environmental Change and Livelihood Strategies - the Case of Ikuwala. SASA Conference, Copenhagen, 17-18 November 1999.

**Frederiksen, P.:** Interpretation of Environmental Change. SASA Conference, Copenhagen, 17-18 November 1999.

**Gudmundsson, H.:** Case Study on Factor 4 and 10 in the Danish Transport Sector. Presented at a side event on Sustainable Consumption and Production Patterns at the 7th Session of the United Nations Commission on Sustainable Development, New York, USA, 21 April 1999.

**Gudmundsson, H.:** Indicators as a Policy Instrument for Sustainability - the Case of "Environmentally Sustainable Transport". IX Nordic Political Science Congress (NOPSA '99), Uppsala, Sweden, 19-21 August 1999.

**Gudmundsson, H.:** Indicators for "Environmentally Sustainable Transport" (EST) - what, how and why to Indicate? ESF/NSF Conference on Social Change and Sustainable Transport, University of California, Berkeley, USA, 10-13 March 1999.

**Gudmundsson, H.:** Indicators of "Environmentally Sustainable Transport". Applying Indicator Concepts to Passenger Transport in Japan. LEAD Seminar, Shonan Village Center, Kanagawa, Japan, 6 March 1999.

**Gudmundsson, H.:** Mobility Management. 49. Danske Byplanmøde. By og Trafik, Esbjerg, 7.-8. oktober 1999.

**Gudmundsson, H.:** Reduktion af miljøbelastning med faktor 4 og faktor 10. Case-studie i faktor 4/10 konceptet for personbilområdet. Trafikdage på Aalborg Universitet 1999, 30.-31. august 1999.

**Gudmundsson, H.:** The Factor 4/10 Concept in Relation to Transport. Case Study for Passenger Car Transport in Denmark. Meeting at Miljöförvaltningen, Stockholms Stad, Sweden, 14. December 1999.

**Hansen, H.S.:** Computing LISA Statistics with Generalized Weighting Functions. ScanGIS'99. The 7th Scandinavian Research Conference on Geographical Information Science, Aalborg University, Denmark, 7-9 June 1999.

**Hansen, H.S.:** Databaseteknologi på tærsklen til det 21. århundrede. Danske Kortdage 1999. Geografisk Information i 2000 år, Kolding, 6.-8. oktober 1999.

**Hansen, H.S.:** Integrating Digital Maps and Administrative Registers. Danish Experiences. 21st Urban Data Management Symposium (UDMS'99), Venice, Italy, 21-23 April 1999.

**Hansen, H.S.:** Modelling Sea Bottom Topography of the Danish Waters. 14th ESRI European User Conference, Munich, Germany, 15-17 November 1999.

**Hansen, H.S.:** OpenGIS set fra en brugers synsvinkel. Seminar om OpenGIS. Dansk Akademi for Stedbestemt Information (DAiSI), Kunstakademiets Arkitektskole, København, 26. oktober 1999.

**Hasler, B., Andersen, J.M. & Wier, M.:** Integreret analyse af miljø og økonomi ved liberalisering af landbrugspolitikken. Dansk Miljøforskning 1999, H.C. Ørsted Institutet, København, 19.-20. august 1999.

**Hasler, B. & Kjær, S.:** Rules to Restrict Nutrient Leaching and to Improve Water Quality in Denmark. EU-directives and Rules in the Nordic Countries. 21st Congress of the Nordic Association of Agricultural Scientists. Agriculture and Society, Ås, Norway, 28 June - 1 July 1999.

**Hasler, B. & Nielsen, P.:** Voluntary Agreements in Environmental Management in Agriculture. CAVA-Workshop on The Efficiency of Voluntary Approaches in Environmental Policy - what can be Derived from Theory? Eigtveds Pakhus, Copenhagen, Denmark, 25-26 May 1999.

**Hasler, B. & Schou, J.S.:** Danish Sector - and Farm-Level Economic Models. Analysis of Measures towards Nitrogen Leaching. Poster presented at the 21st Congress of the Nordic Association of Agricultural Scientists. Agriculture and Society, Ås, Norway, 28 June - 1 July 1999.

**Hasler, B., Wier, M. & Andersen, J.M.:** Integrated Modelling of Changes in Agricultural Policy, Environmental and Economic Effects. 21st Congress of the Nordic Association of Agricultural Scientists. Agriculture and Society, Ås, Norway, 28 June - 1 July 1999.

**Illerup, J.B.:** Danske emissioner til atmosfæren. Luftforum, Energistyrelsen, København, 27. maj 1999.

**Illerup, J.B.:** The Danish Air Emission Database. EIONET Workshop on European Emission Inventories, Risø, Roskilde, Denmark, 7-8 June 1999.

**Jensen, J.J.:** Cartographic Modelling of N-removal in Wet Meadows. ScanGIS'99. The 7th Scandinavian Research Conference on Geographical Information Science, Aalborg University, Denmark, 7-9 June 1999.

**Jensen, M.:** Environment, Car-Driving and Modernity. Towards a Sustainable Society in the New Millennium, Umeå School of the Environment, Sweden, 10-12 June 1999.

**Jensen, M.:** Holdninger og handling hos politiske forbrugere - transport som eksempel. Temadag om "Den politiske forbruger", Symbion Konferencecenter, København, 24. februar 1999.

**Jensen, M.:** Miljø, bilisme og modernitet. 20. Nordiske Sociologkongress, Bergen, Norge, 17.-20. juni 1999.

**Jensen, M.:** Modern People and Mobility. 4th European Conference of Sociology. Will Europe Work? Vrije Universiteit, Amsterdam, The Netherlands, 18-21 August 1999.

**Jensen, M.:** Moderne mennesker og mobilitet. Trafikdage på Aalborg Universitet 1999, 30.-31. august 1999.

**Jensen, S.S.:** A Decision-Support GIS Tool for Management of Urban Air Quality and Human Exposures. 8th International Symposium on Transport and Air Pollution, Graz, Austria, 31 May - 2 June 1999.

**Jensen, S.S.:** Eksponering - modelberegninger. Konference om Trafik og luftforurening, Skejby Sygehus, Århus, 11. januar 1999.

**Jensen, S.S.:** Modelling af befolkningens eksponering med luftforurening fra trafik ved brug af GIS og GPS. Dansk Miljøforskning 1999, H.C. Ørsted Institutet, København, 19.-20. august 1999.

**Jensen, S.S.:** Modelling Human Exposure to Traffic Air Pollution using GIS. Application in Epidemiological Studies. Poster presented at the 1st DSAR Conference, Eigtveds Pakhus, Copenhagen, Denmark, 14-15 October 1999.

**Jensen, S.S.:** Modelværktøjer til luftkvalitetsplanlægning i større byer. Årsmøde for Foreningen af miljømedarbejdere i kommunerne, Den Kommunale Højskole, Grenå, 28.-29. april 1999.

**Jensen, S.S.:** Urban Air Pollution: Monitoring, Modelling and Management. Thai-Danish DANCED Co-operation Seminar, NERI, Roskilde, 26 July 1999.

**Jensen, S.S., Kousgaard, U., Christensen, L. & Rich, J.H.:** Integreret Miljøinformationssystem (IMIS) indenfor bymiljø og trafik. Trafikdage på Aalborg Universitet 1999, 30.-31. august 1999.

**Kristensen, P.:** Agri-Environmental Indicators Relationship between Pressure and State Indicators. EEAC Agri-Environment Workshop arranged by the Danish Nature Council, Copenhagen, Denmark, 4 June 1999.

**Kristensen, P.:** Agri-Environmental Water State Indicators. 2nd ELISA Workshop, Budapest, Hungary, 28-29 May 1999.

**Kristensen, P.:** Water Use and Water Quality. Seminar on How Can Agricultural Statistics Meet Environmental Information Needs? Copenhagen, Denmark, 30 June - 2 July 1999.

**Kveiborg, O.:** Forecasting Developments of the Car Fleet in the Altrans Model. Third Workshop of the Nordic Research Network on Modelling Transport, Land-Use and the Environment, Trondheim, Norway, 26-28 March 1999.

**Kveiborg, O.:** Pricing Externalities of Transport. Fourth Workshop of the Nordic Research Network on Modelling Transport, Land-Use and the Environment, Svinkløv Badehotel, Denmark, 1-3 October 1999.

**Kveiborg, O.:** Udviklingen af den danske personbilpark. En model for bilparkens sammensætning. Trafikdage på Aalborg Universitet 1999, 30.-31. august 1999.

**Lange, Z.:** GIS til analyse af kollektiv trafiks serviceniveau. Danske Kortdage 1999. Geografisk Information i 2000 år, Kolding, 6.-8. oktober 1999.

**Münier, B.:** Assessing Nature Quality. Integrating Spatial Databases for Predicting Biotope Distribution. NORDLAM. Nordic Workshop on Landscape, Environment and Biodiversity Monitoring, Fuglsø Centre, Denmark, 14-17 October 1999.

**Münier, B.:** En GIS-baseret geografisk biotopmodel. Naturkvalitet - kriterier og metodeudvikling. Åbent seminar arrangeret af Danmarks Miljøundersøgelser, Danmarks og Grønlands Geologiske Undersøgelser og Forskningscenter for Skov og Landskab, Ferskvandscentret, Silkeborg, 10. november 1999.

**Münier, B.:** Landskabsmodeller i terrestriske biotoper - naturgrundlag og historisk arealanvendelse. GIS-seminar om "Data og analysemetoder", Hollufgård, Odense SØ, 18. maj 1999.

**Münier, B.:** Naturen i det agrare landskab, landskabsøkologi og GIS-modellering af terrestriske biotoper. Dansk Miljøforskning 1999, H.C. Ørsted Institutet, København, 19.-20. august 1999.

**Münier, B., Bruun, H.G. & Nygaard, B.:** A Biotope Model for Predicting Plant Community Distribution. ScanGIS '99. The 7th Scandinavian Research Conference on Geographical Information Science, Aalborg University, Denmark, 7-9 June 1999.

**Møller, F.:** Restaurering af vandløb - kan det betale sig? Seminar om restaurering og vedligeholdelse af vandløb. Det Europæiske Center for Vandløbsrestaurering og Danmarks Miljøundersøgelser, Silkeborg, 12.-13. oktober 1999.

**Møller, F. & Strandmark, L.:** Projektvurdering på miljøområdet - naturgenopretning af Brede Å. Dansk Miljøforskning 1999, H.C. Ørsted Institutet, København, 19.-20. august 1999.

**Møller, F. & Winther, M.:** Mere brændstofeffektive køretøjer. CO<sub>2</sub>-konsekvenser og samfundsøkonomi. Seminar i forskningssamarbejdet TEAM, Økonomisk Institut, København, 5. januar 1999.

**Rich, J.H.:** A Micro-based Spatial Equilibrium Framework for Households. 46th RSAI Conference, Montreal, Canada, November 1999.

**Rich, J.H.:** Choice of Residential Location and Workplaces for Two-Worker Households. Third Workshop of the Nordic Research Network on Modelling Transport, Land-Use and the Environment, Trondheim, Norway, 26-28 March 1999.

**Rich, J.H.:** Large Scale Transport Demand Modelling: Model Concepts and Results from the ALTRANS Project. Fourth Workshop of the Nordic Research Network on Modelling Transport, Land-Use and the Environment, Svinkløv Badehotel, Denmark, 1-3 October 1999.

**Rich, J.H.:** Large Scale Transport Demand Modelling. Model Concepts from the ALTRANS Project. Seminar for regional- og byforskere, Svinkløv, 29.-30. september 1999.



**Sørensen, C.H.:** Trafikministeriet og miljø - en historisk analyse. Trafikdage på Aalborg Universitet 1999, 30.-31. august 1999.

**Wier, M., Hasler, B. & Andersen, J.M.:** Evaluating Consequences of Agricultural Policy Measures in an Integrated Economic and Environmental Model System. Second International Conference on Ecosystems and Sustainable Development. ECOSUD99, Lemnos, Greece, 31 May - 2 June 1999.

**Winther, M.:** An Air Traffic Emission Inventory for Denmark in 1997 using the Detailed CORINAIR Calculation Methodology - and Suggestions for Improvements. 8th International Symposium on Transport and Air Pollution including COST 319 Final Conference, Graz, Austria, 31 May - 2 June 1999.

**Winther, M.:** An Air Traffic Emission Inventory for Denmark in 1997 using the Detailed CORINAIR Calculation Methodology - and Suggestions for Improvements. 3rd ANCAT/EMCAL Meeting, Paris, France, 6-7 September 1999.

## 302 Arktisk Miljø og Natur/Arctic Environment

### Internationale videnskabelige publikationer

**Asmund, G. & Johansen, P. (1999):** Short and Long Term Environmental Effects of Marine Tailings and Waste Rock Disposal from a Lead/Zinc Mine in Greenland. In: Rubio, R.F. (ed.): Mine, Water & Environment. International Congress, September 13-17, 1999, Sevilla, Spain. International Mine Water Association. pp. 177-181.

**Born, E.W., Riget, F.F., Dietz, R. & Andriashek, D. (1999):** Escape Responses of Hauled Out Ringed Seals (*Phoca hispida*) to Aircraft Disturbance. - Polar Biology 21:171-178.

**Glahder, C.M. (1999):** Spring Staging Areas of the Greenland White-fronted Goose (*Anser albifrons flavirostris*) in West Greenland. - Arctic 52(3):244-256.

**Glahder, C.M., Fox, A.D. & Walsh, A.J. (1999):** Satellite Tracking of Greenland White-fronted Geese. - Dansk Ornitologisk Forenings Tidsskrift 93(4):271-276.

**Johansen, P. & Asmund, G. (1999):** Pollution from Mining in Greenland. Monitoring and Mitigation of Environmental Impacts. In: Azcue, J.M. (ed.): Environmental Impacts of Mining Activities. Emphasis on Mitigation and Remedial Measures. Springer. pp. 245-262.

**Merne, O.J., Boertmann, D., Boyd, H., Mitchell, C., Ó Briain, M., Reed, A. & Sigfusson, A. (1999):** Light-Bellied Brent Goose *Branta bernicla hrota*: Canada. In: Madsen, J., Cracknell, G. & Fox, T. (eds.): Goose Populations of the Western Palearctic. A Review of Status and Distribution. National Environmental Research Institute, Denmark and Wetlands International, Wageningen, The Netherlands. - Wetlands International Publication 48:298-311.

**Mosbech, A. & Boertmann, D. (1999):** Distribution, Abundance and Reaction to Aerial Surveys of Post-Breeding King Eiders (*Somateria spectabilis*) in Western Greenland. - Arctic 52(2):188-203.

**Mosbech, A. & Johnson, S.R. (1999):** Late Winter Distribution and Abundance of Sea-Associated Birds in South-Western Greenland, the Davis Strait and Southern Baffin Bay. - Polar Research 18(1):1-17.

**Ogilvie, M.A., Boertmann, D., Cabot, D., Merne, O., Percival, S.M. & Sigfusson, A. (1999):** Barnacle Goose *Branta leucopsis*: Greenland. In: Madsen, J., Cracknell, G. & Fox, T. (eds.): Goose Populations of the Western Palearctic. A Review of Status and Distribution. National Environmental Research Institute, Denmark and Wetlands International, Wageningen, The Netherlands. - Wetlands International Publication 48:246-256.

**Phillips, R.A., Petersen, M.K., Lilliendahl, K., Solmundsson, J., Hamer, K.C., Camphuysen, C.J. & Zonfrillo, B. (1999):** Diet of the Northern Fulmar *Fulmarus glacialis*: Reliance on Commercial Fisheries? - Marine Biology 135:159-170.

**Rysgaard, S., Nielsen, T.G. & Winding Hansen, B. (1999):** Seasonal Variation in Nutrients, Pelagic Primary Production and Grazing in a High-Arctic Coastal Marine Ecosystem, Young Sound, Northeast Greenland. - Marine Ecology Progress Series 179:13-25.

### Afhandlinger

**Glahder, C.M. (1999):** Sensitive Areas and Periods of the Greenland White-fronted Goose in West Greenland. Spring Staging and Moulting as Important Bottleneck Periods in the Annual Cycle of the Goose Subspecies. PhD thesis.

University of Copenhagen. Zoological Museum. Department of Vertebrates and National Environmental Research Institute. Department of Arctic Environment. 142 pp.

**Mosbech, A. (1999):** Kan man forudsige effekter på fuglebestande af et stort oliespild? Et Ph.D.-studie af havfugle, økologi og miljøkonsekvensvurderinger af oliespild i Arktis. PhD afhandling. Danmarks Miljøundersøgelser. Afdeling for Arktisk Miljø og Roskilde Universitetscenter. Institut for Miljø, Teknologi og Samfund. 1 ringbind.

#### **DMU rapporter**

**Boertmann, D. & Glahder, C. (1999):** Grønlandske gåsebestande - en oversigt. Afdeling for Arktisk Miljø. 59 s.- Faglig rapport fra DMU 276.

**Glahder, C.M., Appel, P.W.U. & Asmund, G. (1999):** Mercury in Soap in Tanzania. Department of Arctic Environment. 20 pp.- NERI Technical Report 306.

**Johansen, P., Asmund, G. & Riget, F.F. (1999):** Blykontaminering af grønlandske fugle. En undersøgelse af polarlomvie til belysning af human eksponering med bly som følge af anvendelse af blyhagl. Afdeling for Arktisk Miljø. 27 s.- Faglig rapport fra DMU 299.

**Johansen, P., Asmund, G. & Riget, F. (1999):** Miljøundersøgelser ved Maarmorilik 1998. Afdeling for Arktisk Miljø. 74 s.- Faglig rapport fra DMU 277.

#### **Øvrige faglige artikler, rapporter og bogbidrag**

**Anderson, N.J., Bennike, O., Christoffersen, K., Jeppesen, E., Markager, S., Milller, G. & Renberg, I. (1999):** Limnological and Palaeolimnological Studies of Lakes in South-Western Greenland. - Geology of Greenland Survey Bulletin 183:68-74.

**Bay, C., Philipp, M. & Strandberg, B. (1999):** Karplanter. I: Born, E.W. & Böcher, J. (red.): Grønlands økologi. En grundbog. Nuuk: Atuakkiorfik Undervisning. s. 237-257.

**Berg, T.B. (1999):** Collared Lemming Project - Zackenberg. In: Rasch, M. (ed.): Zackenberg Ecological Research Operations, 4th Annual Report 1998. Danish Polar Center. p. 51.

**Berg, T.B. (1999):** Mammals. In: Rasch, M. (ed.): Zackenberg Ecological Research Operations, 4th Annual Report 1998. Danish Polar Center. pp. 32-38.

**Boertmann, D. (1999):** Fugle med tilknytning til land og ferskvand. I: Born, E.W. & Böcher, J. (red.): Grønlands økologi. En grundbog. Nuuk: Atuakkiorfik Undervisning. s. 291-300.

**Boertmann, D. (1999):** Havfugle. I: Born, E.W. & Böcher, J. (red.): Grønlands økologi. En grundbog. Nuuk: Atuakkiorfik Undervisning. s. 170-184.

**Boertmann, D. & Mosbech, A. (1999):** Bemærkelsesværdige fugleobservationer fra Vest- og Nordgrønland, 1992-1998. - Dansk Ornitologisk Forenings Tidsskrift 93:145-152.

**Born, E.W. & Berg, T.B. (1999):** A Photographic Survey of Walruses (*Odobenus rosmarus*) at the Sandøen Haul-out (Young Sund, Eastern Greenland) in 1998. Greenland Institute of Natural Resources. 19 pp. - Technical Report 26.

**Born, E.W., Böcher, J., Boertmann, D., Pedersen, S.A. & Philipp, M. (1999):** Tilpasninger til arktiske livsvilkår. I: Born, E.W. & Böcher, J. (red.): Grønlands økologi. En grundbog. Nuuk: Atuakkiorfik Undervisning. s. 84-109.

**Christoffersen, K., Arboe, N.H., Landkildehus, F., Jeppesen, E. & Søndergaard, M. (1999):** Studies of *Lepidurus arcticus*. In: Rasch, M. (ed.): Zackenberg Ecological Research Operations, 4th Annual Report 1998. Danish Polar Center. pp. 45-46.

**Dietz, R. (1999):** Forurening. I: Born, E.W. & Böcher, J. (red.): Grønlands økologi. En grundbog. Nuuk: Atuakkiorfik Undervisning. s. 381-402.

**Glahder, C.M. (1999):** Gåsebestande i Østasien. - Dansk Ornitologisk Forenings Tidsskrift 93(3):176.

**Jeppesen, E., Christoffersen, K., Landkildehus, F., Arboe, N.H., Riget, F. & Søndergaard, M. (1999):** Lake Investigations at Zackenberg. In: Rasch, M. (ed.): Zackenberg Ecological Research Operations, 4th Annual Report 1998. Danish Polar Center. pp. 43-44.

**Lisborg, T.D. & Teilmann, J. (1999):** Spættet sæl i Kangerlussuaq / Søndre Strømfjord. Grønlands Naturinstitut. 40 s. - Teknisk Rapport 23.

**Meltofte, H. (1999):** Birds. In: Rasch, M. (ed.): Zackenberg Ecological Research Operations, 4th Annual Report 1998. Danish Polar Center. pp. 25-32.

**Meltofte, H. (1999):** Disturbance. In: Rasch, M. (ed.): Zackenberg Ecological Research Operations, 4th Annual Report 1998. Danish Polar Center. p. 57.

**Meltofte, H. (1999):** General Observations on Ice Conditions. In: Rasch, M. (ed.): Zackenberg Ecological Research Operations, 4th Annual Report 1998. Danish Polar Center. p. 17.

**Meltofte, H. (1999):** Vegetation. In: Rasch, M. (ed.): Zackenberg Ecological Research Operations, 4th Annual Report 1998. Danish Polar Center. pp. 18-20.

**Meltofte, H. & Berg, T.B. (1999):** Zackenberg Ecological Research Operations. BioBasis: Conceptual Design and Sampling Procedures of the Biological Programme of Zackenberg Basic. 3rd ed. National Environmental Research Institute. Department of Arctic Environment. 73 pp.

**Meltofte, H. & Lévesque, E. (1999):** Report: Working Group on Observatories. In: Hollister, R.D. (ed.): Plant Response to Climate Change: Integration of ITEX Discoveries. Proceedings from the 9th ITEX Meeting. Michigan State University. - Arctic Ecology Laboratory Report 1:101-102.

**Pedersen, S.A. & Riget, F. (1999):** Nutidigt fiskeri - og forskning. I: Born, E.W. & Böcher, J. (red.): Grønlands økologi. En grundbog. Nuuk: Atuakkiorfik Undervisning. s. 347-364.

**Riget, F. & Böcher, J. (1999):** Ferskvandsmiljøet. I: Born, E.W. & Böcher, J. (red.): Grønlands økologi. En grundbog. Nuuk: Atuakkiorfik Undervisning. s. 221-236.

**Riget, F., Jeppesen, E., Landkildehus, F., Gertz-Hansen, P. & Christoffersen, K. (1999):** Arctic Char in Lakes at Zackenberg. In: Rasch, M. (ed.): Zackenberg Ecological Research Operations, 4th Annual Report 1998. Danish Polar Center. pp. 44-45.

**Rysgaard, S., Hansen, J.W., Sejr, M., Borum, J., Laursen, J.S., Ehlme, G. & Elander, M. (1999):** Changes in Arctic Marine Production. In: Rasch, M. (ed.): Zackenberg Ecological Research Operations, 4th Annual Report 1998. Danish Polar Center. pp. 54-56.

#### **Populærfaglig formidling m.v.**

**Christensen, P.B. (1999):** Sommer under isen. - Jyllands-Posten. Lørdag d. 24. juli 1999 s. 8.

**Christensen, P.B. (1999):** Spændende resultater fra dansk polarforskning. - Midtjyllands Avis. Lørdag d. 26. - søndag d. 27. juni 1999 s. 13.

**Christensen, P.B. (1999):** Under isen på årets længste dag. - Midtjyllands Avis. Lørdag d. 26. - søndag d. 27. juni 1999 s. 13.

**Christensen, P.B. (1999):** Young Sund-imi paasisat siulliit soqutiginaartut. - Marlunngorneq 6. juli 1999 s. 11.

**Christensen, P.B. i samarbejde med DRI (1999):** Isgrænsens biologi. TVudsendelse sendt d. 14.12.1999 i programserien: Viden om. Varighed 28 min. Danmarks Radio.

**Christensen, P.B. & Rysgaard, S. (1999):** Aavernik paarsineq. - Atuagadliutit. Marlunngorneq 18. marts 1999 s. 13.

**Christensen, P.B. & Rysgaard, S. (1999):** Klimaforandringer i Arktis. Hvad betyder det for de marine økosystemer? - Aktuell Naturvidenskab 1:4-7.

**Christensen, P.B. & Rysgaard, S. (1999):** Sikup ataani inuuneq. - Atuagadliutit. Marlunngorneq 2. marts 1999 s. 11.

**Christensen, P.B. & Rysgaard, S. (1999):** Tunup Avannaarsua ilisimatuut missisuiffigaat. - Atuagagdlitit. Marlunngorneq 2. marts 1999 s. 10.

**Indlæg ved kongresser, symposier m.v.**

**Aastrup, P.:** Miljø og råstofaktiviteter på land. Workshop om arealfredninger som naturbeskyttelsesinstrument i Grønland, Nuuk, Grønland, 26.-28. oktober 1999.

**Aastrup, P.:** Responses of West Greenland Caribou to Light Human Disturbance. Preliminary Results. Poster presented at the International Workshop on "The Human Role in Reindeer/Caribou Systems", Arctic Centre, Rovaniemi, Finland, 9-14 February 1999.

**Asmund, G. & Johansen, P.:** Kort- og langtidseffekt på miljøet af marin deponering af mineaffald i Grønland. Dansk Miljøforskning 1999, H.C. Ørsted Institutet, København, 19.-20. august 1999.

**Asmund, G. & Johansen, P.:** Short and Long Term Environmental Effects of Marine Tailings and Waste Rock Disposal from a Lead/Zinc Mine in Greenland. Mine, Water & Environment. 1999 IMWA Congress, Sevilla, Spain, 13-17 September 1999.

**Berg, T.B.G.:** Biosfæreservater og deres betydning. Workshop om arealfredninger som naturbeskyttelsesinstrument i Grønland, Nuuk, Grønland, 26.-28. oktober 1999.

**Berg, T.B.G.:** Lemmingen: Tundraens hamburger. Foredrag på Polarcaféen, Dansk Polarcenter, København, 5. Oktober 1999.

**Berg, T.B.G.:** Population Fluctuations of Collared Lemmings (*Dicrostonyx groenlandicus*) in Greenland in Relation to Food Quantity and Quality. Dansk Pattedyrforenings Årsmøde, Vildtforvaltningsskolen, Rønne, 19.-20. november 1999.

**Berg, T.B.G.:** Zackenberg Ecological Research Station. Northern Sciences Network International Advisory Group Meeting, Abisko Research Station, Abisko, Sweden, 22-24 October 1999.

**Boertmann, D.:** Environmental Issues Related to Hydrocarbon Exploration and Exploitation in Greenland, with Focus on West Greenland. Seminar on the New Licensing Policy for Greenland, Copenhagen, Denmark, 18 June 1999.

**Boertmann, D.:** Erfaringer fra forsøg med oprettelsen af reservater i Danmark. Workshop om arealfredninger som naturbeskyttelsesinstrument i Grønland, Nuuk, Grønland, 26.-28. oktober 1999.

**Dietz, R., Heide-Jørgensen, M.P., Acquarone, M. & Richard, P.:** Satellite Radio Tracking of Narwhals Captured in Tremblay Sound in 1997 and 1998. NAMMCO Working Group on Belugas and Narwhals, Oslo, Norway, 1-3 March 1999.

**Friberg, N., Milner, A.M. & Svendsen, L.M.:** Invertebrate Communities along Regional and Physicochemical Gradients in Greenland Streams. British Ecological Society Winter and Annual General Meeting, University of Leeds, United Kingdom, December 20-22, 1999.

**Glahder, C.M.:** Kan Grønlands miljø tåle råstofudvinding? Grønlands-weekend. Arrangeret af Biologisk Forum og BioNyt/Populær Forskning i samarbejde med Zoologisk Have i København, Zoologisk Have, København, 10.-11. april 1999.

**Glahder, C.M., Fox, A.D. & Walsh, A.J.:** Satellite Tracking of Spring Migrating Greenland White-Fronted Geese *Anser albifrons flavirostris*. 4th Annual Meeting of the Wetlands International Goose Specialist Group, Matsushima, Miyagi, Japan, 24-28 January 1999.

**Hansen, J.W. & Rysgaard, S.:** Kulstofkredsløbet i en arktisk fjord. Poster præsenteret ved Dansk Miljøforskning 1999, H.C. Ørsted Institutet, København, 19.-20. august 1999.

**Heide-Jørgensen, M.P., Hammeken, N., Dietz, R., Innis, S., Orr, J. & Richard, P.:** Surfacing Times for Narwhals and Belugas. NAMMCO Working Group on Belugas and Narwhals, Oslo, Norway, 1-3 March 1999.

**Innis, S., Muir, D.C.G., Stewart, R.E.A., Dietz, R. & Heide-Jørgensen, M.P.:** Stock Identity of Beluga (*Delphinapterus leucas*) in Eastern Canada and West Greenland Based on Organochlorine Contaminants Found in their Blubber. NAMMCO Working Group on Belugas and Narwhals, Oslo, Norway, 1-3 March 1999.

**Jeppesen, E.:** Introduction to the NORLAKE Project. What is it? Why? The NORLAKE Workshop, Reykholt, Iceland, September30-October 4, 1999.

**Jeppesen, E.:** Top-Down Control in Temperate and Arctic Lakes - Changes along a Nutrient Gradient. The NORLAKE Workshop, Reykholt, Iceland, September30-October 4, 1999.

**Johansen, P.:** Human eksponering med miljøgifte fra lokale kostemner i Grønland. Poster præsenteret ved Dansk Miljøforskning 1999, H.C. Ørsted Institutet, København, 19.-20. august 1999.

**Landkildehus, F.:** Danish Activities Since 1997 and Future Plans to Year 2002. The NORLAKE Workshop, Reykholt, Iceland, September30-October 4, 1999.

**Lauridsen, T.L. & Jeppesen, E.:** Lake Research in West- and Northeast Greenland. Inviteret indlæg ved Seminar, Biologisk Institut, Odense Universitet, 1. december 1999.

**Lauridsen, T.L., Jeppesen, E., Landkildehus, F., Christoffersen, K. & Søndergaard, M.:** Horizontal Distribution of Cladocerans in Greenland Lakes. Vth International Symposium on Cladocera, Ploen, Germany, September 14-18, 1999.

**Lauridsen, T.L., Jeppesen, E., Landkildehus, F., Christoffersen, K. & Søndergaard, M.:** Horizontal Distribution of Zooplankton in Danish and Greenland Lakes. The NORLAKE Workshop, Reykholt, Iceland, September30-October 4, 1999.

**Meltofte, H.:** Progress of the Biobasis Monitoring Programme at Zackenberg, Northeast Greenland. 9th ITEX Meeting. Arctic Plant Response to Climate Change: Integration of ITEX Discoveries, Michigan State University, East Lansing, USA, 5-9 January 1999.

**Meltofte, H.:** The Biological Programme, BioBasis, at Zackenberg in Northeast Greenland. Forvaltningsrettet Miljøovervågning i Nordområdene, Norsk Polarinstitut, Tromsø, Norway, 23 November 1999.

**Miller, L., Teilmann, J., Kirketerp, T., Tougaard, J., Labberté, S. & Anderson, K.:** Does the Aversive Response Shown by Harbour Porpoises to Pinger-Like Sounds Diminish over Time? Poster presented at the 13th Biennial Conference on the Biology of Marine Mammals, Wailea, Hawaii, 28 November - 3 December 1999.

**Mosbech, A.:** Hvor og for hvilke fuglearter kan man bruge jagtfrie kerneområder som beskyttelsesforanstaltning i Grønland? Workshop om arealfredninger som naturbeskyttelsesinstrument i Grønland, Nuuk, Grønland, 26.-28. oktober 1999.

**Rysgaard, S.:** Carbon and Nutrient Cycling in a High-Arctic Marine Sediment. Poster presented at The Gordon Research Conference. Control and Significance of Carbon Fluxes in Polar Seas, Ventura, California, USA, March 7-12, 1999.

**Sonne-Hansen, C., Dietz, R., Hyldstrup, L., Leifsson, P. & Riget, F.:** An Epidemiological Study of Possible Cadmium Induced Nephropathy and Osteodystrophy in Ringed Seals (*Phoca hispida*) from Northwest Greenland. Poster presented at EUROTOX '99, Sjølyst Exhibition Centre, Oslo, Norway, 27-30 June 1999.

**Teilmann, J.:** Where do They Go? Harbour Porpoises Unaware of Borders. How do We Avoid the Drowning of Harbour Porpoises in Fishing Nets? Invited talk at School of Veterinary Medicine, University of Hannover, Germany, January 1999.

**Teilmann, J., Larsen, F. & Desportes, G.:** Satellite Tracking of Harbour Porpoises used to Estimate the Potential Interaction with Gillnets in Danish Waters. Poster presented at the 13th Biennial Conference on the Biology of Marine Mammals, Wailea, Hawaii, 28 November - 3 December 1999.

### **303 Miljøfremmede organismer**

#### **Internationale videnskabelige publikationer**

*Ammann, K., Jacot, Y., Kjellsson, G. & Simonsen, V. (1999):* Final Summary of the Conference. In: Ammann, K., Jacot, Y., Simonsen, V. & Kjellsson, G. eds.): Methods for Risk Assessment of Transgenic Plants. III. Ecological Risks and Prospects of Transgenic Plants, where do we go from here? A Dialogue between Biotech Industry and Science. Birkhäuser Verlag. pp. 237-239.

*Ammann, K., Jacot, Y., Simonsen, V. & Kjellsson, G. (eds.) (1999):* Methods for Risk Assessment of Transgenic Plants. III. Ecological Risks and Prospects of Transgenic Plants, where do we go from here? A Dialogue between Biotech Industry and Science. Birkhäuser Verlag. 260 pp.

*Damgaard, C. (1999):* A Test of Asymmetric Competition in Plant Monocultures Using the Maximum Likelihood Function of a Simple Growth Model. - *Ecological Modelling* 116:285-292.

*Damgaard, C. (1999):* Coevolution of a Plant Host-Pathogen Gene-for-Gene System in a Metapopulation Model without Cost of Resistance or Cost of Virulence. - *Journal of Theoretical Biology* 201:1-12.

*Damgaard, C. (1999):* Modelling the Spread of Disease Resistance Gene in Natural Plant Populations. In: Ammann, K., Jacot, Y., Simonsen, V. & Kjellsson, G.(eds.): Methods for Risk Assessment of Transgenic Plants. III. Ecological Risks and Prospects of Transgenic Plants, where do we go from here? A Dialogue between Biotech Industry and Science. Birkhäuser Verlag. pp. 43-45.

*Damgaard, C. & Nielsen, B.J. (1999):* The Effect of Fungal Density on Fungicide Dose-Response Curves in Barley Powdery Mildew (*Erysiphe graminis f.sp. hordei*). - *Plant Pathology* 48:402-407.

*Erneberg, M. (1999):* Effects of Herbivory and Competition on an Introduced Plant in Decline. - *Oecologia* 118:203-209.

*Erneberg, M. & Holm, B. (1999):* Bee Size and Pollen Transfer in *Cypripedium calceolus* (Orchidaceae). - *Nordic Journal of Botany* 19(3):363-367.

*Johansen, J.E., Nielsen, P. & Sjøholm, C. (1999):* Description of *Cellulophaga baltica* gen. nov., sp. nov. and *Cellulophaga fucicola* gen. nov., sp. nov. and Reclassification of [*Cytophaga*] *lytica* to *Cellulophaga lytica* gen. nov., comb. nov.. - *International Journal of Systematic Bacteriology* 49:1231-1240.

*Johnsen, K., Enger, Ø., Jacobsen, C.S., Thirup, L. & Torsvik, V. (1999):* Quantitative Selective PCR of 16S Ribosomal DNA Correlates Well with Selective Agar Plating in Describing Population Dynamics of Indigenous *Pseudomonas* spp. in Soil Hot Spots. - *Applied and Environmental Microbiology* 65(4):1786-1789.

*Jørgensen, N.O.G., Kroer, N., Coffin, R.B & Hoch, M.P. (1999):* Relations between Bacterial Nitrogen Metabolism and Growth Efficiency in an Estuarine and an Open-Water Ecosystem. - *Aquatic Microbial Ecology* 18:247-261.

*Karlson, U., Dowling, D.N., O'Gara, F., Rivilla, R., Bittens, M., Francesconi, S., Pritchard, H. & Pedersen, H.C. (1999):* Development of Self-Contained Plant/GMM Systems for Soil Bioremediation. In: Vries, G.E. de: Past, Present and Future Considerations in Risk Assessment when using GMO's. Workshop Proceedings, Leeuwenhorst Congress Centre Noordwijkerhout, the Netherlands, March 5-6, 1998. Bilthoven: Commission Genetic Modification. pp. 23-31.

*Kjellsson, G. (1999):* Methodological Lacunas: The Need for New Research and Methods in Risk Assessment. In: Ammann, K., Jacot, Y., Simonsen, V. & Kjellsson, G.(eds.): Methods for Risk Assessment of Transgenic Plants. III. Ecological Risks and Prospects of Transgenic Plants, where do we go from here? A Dialogue between Biotech Industry and Science. Birkhäuser Verlag. pp. 185-194.

*Mayr, C., Winding, A. & Hendriksen, N.B. (1999):* Community Level Physiological Profile of Soil Bacteria Unaffected by Extraction Method. - *Journal of Microbiological Methods* 36:29-33.

*Normander, B., Hendriksen, N.B. & Nybroe, O. (1999):* Green Fluorescent Protein-Marked *Pseudomonas fluorescens*: Localization, Viability, and Activity in the Natural Barley Rhizosphere. - *Applied and Environmental Microbiology* 65(10):4646-4651.

*Simonsen, V. (1999):* Molecular Markers for Monitoring Transgenic Plants. In: Ammann, K., Jacot, Y., Simonsen, V. & Kjellsson, G. (eds.): Methods for Risk Assessment of Transgenic Plants. III. Ecological Risks and Prospects of Transgenic Plants, where do we go from here? A Dialogue between Biotech Industry and Science. Birkhäuser Verlag. pp. 87-93.

*Willumsen, P.A. & Arvin, E. (1999):* Kinetics of Degradation of Surfactant-Solubilized Fluoranthene by a *Sphingomonas paucimobilis*. - Environmental Science and Technology 33(15):2571-2578.

*Willumsen, P.A. & Karlson, U. (1998):* Effect of Calcium on the Surfactant Tolerance of a Fluoranthene Degrading Bacterium. - Biodegradation 9:369-379.

#### **DMU rapporter**

*Kjær, C., Damgaard, C., Kjellsson, G., Strandberg, B. & Strandberg, M. (1999):* Ecological Risk Assessment of Genetically Modified Higher Plants (GMHP). Identification of Data Needs. Department of Terrestrial Ecology. 32 pp.- NERI Technical Report 303.

#### **Øvrige faglige artikler, rapporter og bogbidrag**

*Hendriksen, N.B. & Hansen, B.M. (1999):* Mikrobiologiske plantebeskyttelsesmidlers effekter på udvalgte terrestriske invertebrater. Miljøstyrelsen. 46 s. - Miljøprojekt 457. - <http://www.mst.dk/199903publikat/87-7909-205-5/default.htm> (visited July 14, 1999). Udkommer kun elektronisk.

*Løkke, H. (1999):* Principles of Risk Assessment. In: Genetically Modified Organisms in Nordic Habitats - Sustainable Use or Loss of Diversity? Copenhagen: Nordic Councils of Ministers. - TemaNord : Environment 1999:542:12-21.

*Strandberg, B. & Kjær, C. (1999):* Proposal for a Test Protocol for Genetically Modified Plants. In: Genetically Modified Organisms in Nordic Habitats - Sustainable Use or Loss of Diversity? Copenhagen: Nordic Councils of Ministers. - TemaNord : Environment 1999:542:96-97.

#### **Populærfaglig formidling m.v.**

*Hendriksen, N.B. & Hansen, B.M. (1999):* Mikrobiologiske bekæmpelsesmidlers effekt på miljøet. - Ny Viden fra Miljøstyrelsen 4:75-78.

*Kroer, N. (1999):* Overførsel af gener. - Ingeniøren 7:17.

*Kroer, N. (1999):* Resistente bakterier kom før antibiotika. - Ingeniøren 7:16.

*Normander, B. (1999):* Biologisk plantebeskyttelse. Bakterier, jord, planter og miljø. I: Samfinansiering I. Forskerakademiet. s. 15-17.

#### **Indlæg ved kongresser, symposier m.v.**

*Damgaard, C.:* Fixation of Advantageous Alleles in Partially Selffertilizing Populations. VII European Society of Evolutionary Biology - ESEB- Congress, Barcelona, Spain, August 23-28, 1999.

*Damgaard, C. & Strandberg, B.:* Plant Competition Experiments. The Condition for Coexistence and Estimating the Probabilities of the Different Ecological Scenarios. Poster præsenteret ved Dansk Miljøforskning 1999, H.C. Ørsted Institut, København, 19.-20. august 1999.

*Damgaard, C. & Weiner, J.:* Testing for Asymmetric Competition. Second European Ecological Modelling Conference arranged by International Society for Ecological Modelling, European Chapter, Pula, Croatia, September 20-24, 1999.

*Erneberg, M.:* Effects of Disease and Disturbance on Introduced and Naturalised *Lolium perenne*. Poster presented at V International Conference on the Ecology of Invasive Alien Plants, Teatro Longobardo, La Maddalena, Sardinia, Italy, October 13-16, 1999.

*Erneberg, M. & Strandberg, B.:* Plant Invasions and Community Invasibility. Effect of Disease Resistance. SMP-II temadag i Center for effekter og risici ved anvendt bioteknologi i planteproduktion, Landbrugets Center for Efteruddannelse, Tune, 6. september 1999.

*Hansen, B.M.:* De gode, de onde og de grusomme bakterier i miljøet. Møde arrangeret af IDAmiljø om Mikroorganismer i og omkring os, Ingeniørhuset, København, 26. oktober 1999.

*Hansen, B.M. & Hendriksen, N.B.:* Ecological Aspects of the Survival in Soil of Spray Released *Bacillus thuringiensis* subsp. *kurstaki*. Poster presented at the Global IOBC International Symposium. Evaluating Indirect Ecological Effects of Biological Control, Montpellier, France, 17-20 October 1999.

**Johansen, J.E. & Binnerup, S.:** Enzyme Characteristics of Bacteria from Barley Rhizosphere. Poster presented at an international conference on Enzymes in the Environment. Activity, Ecology and Applications, Granada, Spain, 12-16 July 1999.

**Karlson, U.:** En dansk forskers erfaringer fra EU-ansøgninger/projekter. Informationsseminar "Vand" afholdt af FIRST, Forskningsstyrelsen, Forskningsministeriets mødecenter, København, 11. maj 1999.

**Karlson, U.:** Role of Plants and Bacteria in Rhizoremediation of PAH-Contaminated Soil. 9th European Congress on Biotechnology, Bruxelles, Belgium, 11-15 July 1999.

**Kroer, N.:** Betydning af genoverførsel og "højere magter" for bakteriel adaptation til miljøfremmede stoffer. Inviteret foredrag ved møde på Danmarks og Grønlands Geologiske Undersøgelser, København, 19. november 1999.

**Kroer, N.:** Bioteknologi i miljøet. Frygt + Fakta = Fornuft. Dansk Miljøforskning 1999, H.C. Ørsted Institutet, København, 19.-20. august 1999.

**Kroer, N.:** Spredning af resistens- og gensplejsede gener mellem mikroorganismer. Møde om Gensplejsede organismer arrangeret af IDAmiljø, Ingeniørhuset, København, 28. september 1999.

**Løkke, H.:** Hvad gør man ved risikoen ved gensplejsede planter? Viden og værdier i risikokommunikation Teknologirådets Workshop, Gammel Dok, København, 23. marts 1999.

**Normander, B.:** Origin and Diversity of Barley Root-Colonising Eubacteria. 5th Molecular Microbial Ecology Group Meeting, University of Aberdeen, Scotland, 11-12 April 1999.

**Ravn, H., Krogh, K.A. & Andary, C.:** Plant Phenolic Compounds as Potential Biomarkers for Abiotic and Biotic Stress. Poster præsenteret ved Dansk Miljøforskning 1999, H.C. Ørsted Institutet, København, 19.-20. august 1999.

**Strandberg, B.:** Miljømæssig risikovurdering. Gensplejsede organismer arrangeret af IDA Miljø, Ingeniørhuset, København, 28. september 1999.

**Strandberg, B.:** Økologiske undersøgelser i forbindelse med demonstrationsforsøg med genetisk modificerede foderroer. Temadag på IFT, Fødevarerdirektoratet Institut For Toksikologi, Søborg, 10. september 1999.

**Strandberg, B. & Kjær, C.:** Miljømæssig risikovurdering af genetisk modificerede planter - status og fremtidige forskningsbehov. Dansk Miljøforskning 1999, H.C. Ørsted Institutet, København, 19.-20. august 1999.

**Strandberg, B. & Kjær, C.:** Proposal for a Test Protocol for Genetically Modified Plants. Poster præsenteret ved Dansk Miljøforskning 1999, H.C. Ørsted Institutet, København, 19.-20. august 1999.

**Svejgaard Jensen, J. & Strandberg, B.:** Environmental Risk Assessment of Genetically Modified Trees in Denmark. Environmental Considerations - Genetically Modified Trees. OECD Workshop, Lilletorget Conference Centre, Trondheim, Norway, September 13-15, 1999.

**Thirup, L., Johansen, A. & Winding, A.:** Effects of Microbial Control Agents on Diversity and Function of the Bacterial Community in the Root Zone. Poster presented at the 6th International Symposium on Bacterial Genetics and Ecology (BAGECO-6), University of Florence, Italy, 20-24 June 1999.

**Winding, A. & Pinhassi, J.:** Diversity of Bacterial Communities across the Skagerrak Frontal System during Stable Summer Conditions. Poster presented at the 6th International Symposium on Bacterial Genetics and Ecology (BAGECO-6), University of Florence, Italy, 20-24 June 1999.

## **304 Miljøfremmede Stoffer**

### **Internationale videnskabelige publikationer**

**Bossi, R., Seiden, P., Andersen, S.M., Jacobsen, C.S. & Streibig, J.C. (1999):** Analysis of Methylsulfonyl-methyl in Soil by Liquid Chromatography / Tandem Mass Spectrometry. Application to a Field Dissipation Study. - Journal of Agricultural and Food Chemistry 47(10):4462-4468.



**Bossi, R., Vejrup, K. & Jacobsen, C.S. (1999):** Determination of Sulfonylurea Degradation Products in Soil by Liquid Chromatography-Ultraviolet Detection Followed by Confirmatory Liquid Chromatography-Tandem Mass Spectrometry. - *Journal of Chromatography A* 855:575-582.

**Broholm, K., Hansen, A.B., Jørgensen, P.R., Arvin, E. & Hansen, M. (1999):** Transport and Biodegradation of Creosote Compounds in a Large, Intact, Fractured Clayey Till Column. - *Journal of Contaminant Hydrology* 39:331-348.

**Broholm, K., Jørgensen, P.R., Hansen, A.B., Arvin, E. & Hansen, M. (1999):** Transport of Creosote Compounds in a Large, Intact, Macroporous Clayey Till Column. - *Journal of Contaminant Hydrology* 39:309-329.

**Cleemann, M., Paulsen, G.B., Storr-Hansen, E. & Fromberg, A. (1999):** Analyses of Polychlorinated Biphenyls and Chlorinated Pesticides in Biota: Method and Quality Assurance. - *Journal of AOAC International* 82(5):1175-1184.

**Elmegaard, N., Andersen, P.N., Odderskær, P. & Prang, A. (1999):** Food Supply and Breeding Activity of Skylarks in Fields with Different Pesticide Treatment. In: Adams, N.J. & Slotow, R.H. (eds.): *Proceedings of the 22 International Ornithological Congress, Durban, South Africa, August 16-22, 1998*. Johannesburg: BirdLife South Africa. pp. 1058-1069 (CD-ROM).

**Fromberg, A., Cleemann, M. & Carlsen, L. (1999):** Review on Persistent Organic Pollutants in the Environment of Greenland and Faroe Islands. - *Chemosphere* 38(13):3075-3093.

**Frosch, P.J., Johansen, J.D., Menné, T., Rastogi, S.C., Bruze, M., Andersen, K.E., Lepoittevin, J.P., Giménez Arnau, E., Pirker, C., Goossens, A. & White, I.R. (1999):** Lyral<sup>®</sup> is an Important Sensitizer in Patients Sensitive to Fragrances. - *British Journal of Dermatology* 141:1076-1083.

**Holmstrup, M. (1999):** Cocoon Production of *Aporrectodea longa* Ude and *Aporrectodea rosea* Savigny (Oligochaeta; Lumbricidae) in a Danish Grass Field. - *Soil Biology and Biochemistry* 31:957-964.

**Jagers op Akkerhuis, G.A.J.M., Seidelin, N. & Kjær, C. (1999):** Are we Analysing Knockdown in the Right Way? How Independence of the Knockdown-Recovery Process from Mortality may Affect Measures for Behavioural Effects in Pesticide Bioassays. - *Pesticide Science* 55:62-68.

**Jagers op Akkerhuis, G.A.J.M., Damgaard, C., Kjær, C. & Elmegaard, N. (1999):** Comparison of the Toxicity of Dimethoate and Cypermethrin in the Laboratory and the Field when Applying the Same Bioassay. - *Environmental Toxicology and Chemistry* 18(10):2379-2385.

**Jagers op Akkerhuis, G.A.J.M. & van Straalen, N.M. (1999):** Operators, the Lego-Bricks of Nature. Evolutionary Transitions from Fermions to Neural Networks. - *World Futures* 53:329-345.

**Jagers op Akkerhuis, G.A.J.M., Kjær, C., Damgaard, C. & Elmegaard, N. (1999):** Temperature-Dependent, Time-Dose-Effect Model for Pesticide Effects on Growing, Herbivorous Arthropods. Bioassays with Dimethoate and Cypermethrin. - *Environmental Toxicology and Chemistry* 18(10):2370-2378.

**Jensen, J. (1999):** Fate and Effects of Linear Alkylbenzene Sulphonates (LAS) in the Terrestrial Environment. - *The Science of the Total Environment* 226:93-111.

**Lassen, P. & Carlsen, L. (1999):** The Effect of Humic Acids on the Water Solubility and Water - Organic Carbon Partitioning of Fluorene and its NSO-Heteroanalogues: Carbazole, Dibenzofuran, and Dibenzothiophene. - *Chemosphere* 38(13):2959-2968.

**Marcussen, B.M., Axelsen, J.A. & Toft, S. (1999):** The Value of Two Collembola Species as Food for a Linyphiid Spider. - *Entomologia Experimentalis et Applicata* 92(1):29-36.

**Martikainen, E.A.T. & Krogh, P.H. (1999):** Effects of Soil Organic Matter Content and Temperature on Toxicity of Dimethoate to *Folsomia fimetaria* (Collembola: Isotomiidae). - *Environmental Toxicology and Chemistry* 18(5):865-872.

**Mutterer, V., Giménez Arnau, E., Lepoittevin, J.-P., Johansen, J.D., Frosch, P.J., Menné, T., Andersen, K.E., Bruze, M., Rastogi, S.C. & White, I.R. (1999):** Identification of Coumarin as the Sensitizer in a Patient Sensitive to Her Own Perfume but Negative to the Fragrance Mix. - *Contact Dermatitis* 40:196-199.

**Platz, J., Sehested, J., Nielsen, O.J. & Wallington, T.J. (1999):** Atmospheric Chemistry of Cyclohexane: UV Spectra of  $c\text{-C}_6\text{H}_{11}\cdot$  and  $(c\text{-C}_6\text{H}_{11})\text{O}_2\cdot$  Radicals, Kinetics of the Reactions of  $(c\text{-C}_6\text{H}_{11})\text{O}_2\cdot$  Radicals with NO and  $\text{NO}_2$ , and the Fate of the Alkoxy Radical  $(c\text{-C}_6\text{H}_{11})\text{O}\cdot$ . - The Journal of Physical Chemistry A 103(15):2688-2695.

**Platz, J., Sehested, J., Nielsen, O.J. & Wallington, T.J. (1999):** Atmospheric Chemistry of Trimethoxymethane,  $(\text{CH}_3\text{O})_3\text{CH}$ ; Laboratory Studies. - The Journal of Physical Chemistry A 103(15):2632-2640.

**Rastogi, S.C., Johansen, J.D., Menné, T., Frosch, P., Bruze, M., Andersen, K.E., Lepoittevin, J.-P., Wakelin, S. & White, I.R. (1999):** Contents of Fragrance Allergens in Children's Cosmetics and Cosmetic-Toys. - Contact Dermatitis 41:84-88.

**Rastogi, S.C., Johansen, J.D., Frosch, P., Menné, T., Bruze, M., Lepoittevin, J.P., Dreier, B., Andersen, K.E. & White, I.R. (1998):** Deodorants on the European Market: Quantitative Chemical Analysis of 21 Fragrances. - Contact Dermatitis 38:29-35.

**Sauer, C.G., Barnes, I., Becker, K.H., Geiger, H., Wallington, T.J., Christensen, L.K., Platz, J. & Nielsen, O.J. (1999):** Atmospheric Chemistry of 1,3-Dioxolane; Kinetic, Mechanistic, and Modeling Study of OH Radical Initiated Oxidation. - The Journal of Physical Chemistry A 103(30):5959-5966.

**Schramm-Nielsen, K., Merry, J., Nyeland, B.A., Spliid, N.H. & Spliid, H. (1998):** Performance Evaluation of Ground Water Reference Material by Statistical Methods. - Austrian Journal of Statistics 27(1-2):99-107.

**Scott-Fordsmand, J.J., Krogh, P.H. & Hopkin, S.P. (1999):** Toxicity of Nickel to a Soil-Dwelling Springtail, *Folsomia fimetaria* (Collembola: Isotomidae). - Ecotoxicology and Environmental Safety. Environmental Research, Section B 43:57-61.

**Scott-Fordsmand, J.J., Weeks, J.M. & Hopkin, S.P. (1999):** Toxicity of Nickel to the Earthworm and the Applicability of the Neutral Red Retention Assay. - Ecotoxicology 7:291-295.

**Simonsen, V., Elmegaard, N., Kjær, C. & Nielsen, B.O. (1999):** Gene Flow Among Populations of the Leafbeetle Species *Gastrophysa polygoni* and *Lochmaea suturalis* in Denmark (Coleoptera: Chrysomelidae). - Entomologia Generalis 23(4):271-279.

**Simonsen, V., Filser, J., Krogh, P.H. & Fjellberg, A. (1999):** Three Species of *Isotoma* (Collembola, Isotomidae) Based on Morphology, Isozymes and Ecology. - Zoologica Scripta 28(3-4):281-287.

**Stein, T.N.N., Christensen, L.K., Platz, J., Sehested, J., Nielsen, O.J. & Wallington, T.J. (1999):** Atmospheric Chemistry of  $\text{CF}_3\text{C}(\text{O})\text{OCH}_2\text{CF}_3$ ; UV Spectra and Kinetic Data for  $\text{CF}_3\text{C}(\text{O})\text{OCH}(\cdot)\text{CF}_3$  and  $\text{CF}_3\text{C}(\text{O})\text{OCH}(\text{OO}\cdot)\text{CF}_3$  Radicals, and Atmospheric Fate of  $\text{CF}_3\text{C}(\text{O})\text{OCH}(\text{O}\cdot)\text{CF}_3$  Radicals. - The Journal of Physical Chemistry A 103(29):5705-5713.

**Thomsen, M., Rasmussen, A.G. & Carlsen, L. (1999):** SAR/QSAR Approaches to Solubility, Partitioning and Sorption of Phthalates. - Chemosphere 38(11):2613-2624.

**Weeks, J.M., Evdokimova, G., Ernst, W.H.O., Scott-Fordsmand, J.J., Sousa, J.P., Sergeev, V.E. & Nakonieczny, M. (1999):** Report of the Working Group on the Strategy for the Implementation of a Biomarker Biomonitoring Programme in the Kola Peninsula, Russia. In: Peakall, D.B., Walker, C.H. & Migula, P. (eds.): Biomarkers. A Pragmatic Basis for Remediation of Severe Pollution in Eastern Europe. Proceedings of the NATO Advanced Research Workshop, Cleszyn, Poland, 21-25 September 1997. Kluwer. - NATO Science Series 2. Environmental Security 54:279-298.

**White, I.R., Johansen, J.D., Giménez Arnau, E., Lepoittevin, J.-P., Rastogi, S., Bruze, M., Andersen, K.E., Frosch, P.J., Goossens, A. & Menné, T. (1999):** Isoeugenol is an Important Contact Allergen: Can it be Safely Replaced with Isoeugenyl Acetate? - Contact Dermatitis 41:272-275.

#### **Afhandlinger**

**Bossi, R. (1999):** Fate of Sulfonylurea Herbicides in Agro-Ecosystems. PhD thesis. The Royal Veterinary and Agricultural University. Department of Agricultural Sciences and National Environmental Research Institute. Department of Environmental Chemistry. 127 pp.

**Bruus Pedersen, M. (1999):** Exposure Routes and Ecotoxicological Effects of Copper in Soil. Linking Laboratory to Field. PhD thesis. Vrije Universiteit Amsterdam. Faculty of Biology and National Environmental Research Institute. Department of Terrestrial Ecology. 128 pp.

#### **DMU rapporter**

**Carlsen, L. (1999):** Linear Solvation Energy Relationships (LSER). A Method to Assess the Solubility of Inorganic Species. Miljøkemi - Environmental Modelling. Department of Environmental Chemistry. 38 pp.- Research Notes from NERI 107.

**Carlsen, L., Bo, P., Higgo, J.J.W. & Davis, J.R. (1999):** Transport and Distribution in Complex Systems. Influence of Chemical and Physicochemical Reactions on the Migration of Cobalt in the Saturated Zone. Miljøkemi - Environmental Modelling. Department of Environmental Chemistry. 26 pp.- Research Notes from NERI 111.

**Krongaard, T. & Petersen, K.K. (1999):** Control of Pesticides 1998. Chemical Substances and Chemical Preparations. Department of Environmental Chemistry. 25 pp.- NERI Technical Report 281.

**Nyeland, B. & Kvamm, B.L. (1999):** Chlorerede, phosphorholdige og andre pesticider i drikkevand. Metodeafprøvning. Afdeling for Miljøkemi. 325 s.- Faglig rapport fra DMU 286.

**Nyeland, B. & Kvamm, B.L. (1999):** Methyl t-butylether (MTBE) i drikkevand. Metodeafprøvning. Afdeling for Miljøkemi. 53 s.- Faglig rapport fra DMU 298.

**Nyeland, B. & Kvamm, B.L. (1999):** Pesticider 1 i overfladevand. Metodeafprøvning. Afdeling for Miljøkemi. 324 s.- Faglig rapport fra DMU 302.

**Nyeland, B. & Kvamm, B. (1999):** Phenoler i drikkevand. Præstationsprøvning. Afdeling for Miljøkemi. 162 s.- Faglig rapport fra DMU 264.

**Nyeland, B.A. (1999):** Pesticider i drikkevand 2. Præstationsprøvning. Afdeling for Miljøkemi. 263 s.- Faglig rapport fra DMU 279.

**Rastogi, S.C., Jensen, G.H., Petersen, M.R. & Worsøe, I.M. (1999):** Preservatives in Skin Creams. Analytical Chemical Control of Chemical Substances and Chemical Preparations. Department of Environmental Chemistry. 70 pp.- NERI Technical Report 297.

**Vikelsøe, J., Thomsen, M., Johansen, E. & Carlsen, L. (1999):** Phthalates and Nonylphenols in Soil. A Field Study of Different Soil Profiles. Department of Environmental Chemistry. 128 pp.- NERI Technical Report 268.

#### **Øvrige faglige artikler, rapporter og bogbidrag**

**Bichel-udvalget. Med bidrag fra H. Løkke (1999):** Rapport fra underudvalget om miljø og sundhed. Miljøstyrelsen. 243 s.

**Bryan, N.D., Jones, D., Griffin, D., Regan, L., King, S., Warwick, P., Carlsen, L. & Bo, P. (1999):** Combined Mechanistic and Transport Modelling of Metal Humate Complexes. In: Buckau, G. (ed.): Effects of Humic Substances on the Migration of Radionuclides: Complexation and Transport of Actinides. Second Technical Progress Report. Forschungszentrum Karlsruhe. - Wissenschaftliche Berichte. FZKA 6324:303-337.

**Carlsen, L., Lassen, P. & Volting, M. (1999):** Sorption of Humic Acids to Kaolinite and Goethite. In: Buckau, G. (ed.): Effects of Humic Substances on the Migration of Radionuclides: Complexation and Transport of Actinides. Second Technical Progress Report. Forschungszentrum Karlsruhe. - Wissenschaftliche Berichte. FZKA 6324:359-372.

**Carlsen, L., Sørensen, P.B. & Mogensen, B.B. (1999):** "Partial Order Ranking" - en simpel metode med store muligheder. - Dansk Kemi 80(11):16-20.

**Danida. With contributions from B.B. Mogensen (1999):** Final Report on Review of Strengthening Plant Protection Services Project Bangladesh. Danida. 41 pp.\*.

**Danmarks Miljøundersøgelser (bidragyder):** Bichel-udvalget (1999): Rapport fra hovedudvalget. Miljøstyrelsen. 144 s.

*Fairbrother, A. (ed.), Glazebrook, P.W., van Straalen, N.M. & Tarazona, J.V. With contributions from Løkke, H. & Scott-Fordsmand, J.J. (1999):* Test Methods for Hazard Determination of Metals and Sparingly Soluble Metal Compounds in Soils. Summary of a SETAC Pellston Workshop in San Lorenzo de El Escorial, Spain, June 19-23, 1999. Society of Environmental Toxicology and Chemistry (SETAC). 24 pp. - A Publication of SETAC.

*Halling-Sørensen, B., Christoffersen, M.-L., Ingerslev, F., Tjørnelund, J., Lützhøft, H.C.H., Honoré Hansen, S., Jørgensen, S.E., Kusk, O., Toräng, L., Wollenberger, L., Nyholm, N., Rabølle, M., Spliid, N.H., Fomsgaard, I., Helweg, A., Jensen, J. & Krogh, P.H. (1999):* Antibiotika i gylle, slam og jord. - Vand & Jord 6(1):8-12.

*Hansen, A.B. & Avnskjold, J. (1999):* Olieforurening i Fehmern Bælt, juni 1999. Oilops 205-99. Olieidentifikation. Danmarks Miljøundersøgelser. Afdeling for Miljøkemi. 45 s.\*

*Hansen, A.B. & Avnskjold, J. (1999):* Olieforurening i Kattegat, juli 1999. Oilops 305/99. Olieidentifikation. Danmarks Miljøundersøgelser. Afdeling for Miljøkemi. 22 s.\*

*Hansen, A.B. & Avnskjold, J. (1999):* Olieforurening i Kattegat ved Hatter Barn, marts 1999. Oilops 062/99. Olieidentifikation. Danmarks Miljøundersøgelser. Afdeling for Miljøkemi. 27 s.\*

*Hansen, A.B. & Avnskjold, J. (1999):* Olieforurening i Nordsøen, maj 1999. Oilops 165-99. Olieidentifikation. Danmarks Miljøundersøgelser. Afdeling for Miljøkemi. 45 s.\*

*Hansen, A.B. & Avnskjold, J. (1999):* Olieforurening i Nordsøen, april 1999. Oilops 145/99. Olieidentifikation. Danmarks Miljøundersøgelser. Afdeling for Miljøkemi. 24 s.\*

*Hansen, A.B. & Avnskjold, J. (1999):* Olieforurening i Samsø Bælt, juni 1999. Oilops 213-99. Olieidentifikation. Danmarks Miljøundersøgelser. Afdeling for Miljøkemi. 49 s.\*

*Hansen, A.B. & Avnskjold, J. (1999):* Olieforurening i Svendborg Sund, marts 1999. Oilops 054/99. Olieidentifikation. Danmarks Miljøundersøgelser. Afdeling for Miljøkemi. 22 s.\*

*Hansen, A.B. & Avnskjold, J. (1999):* Olieforurening i Øresund, maj 1998. Oilops 195/98. Olieidentifikation. Danmarks Miljøundersøgelser. Afdeling for Miljøkemi. 20 s.\*

*Hansen, A.B. & Avnskjold, J. (1999):* Olieforurening i Øresund, august 1999. Oilops 312/99. Olieidentifikation. Danmarks Miljøundersøgelser. Afdeling for Miljøkemi. 20 s.\*

*Hansen, A.B. & Avnskjold, J. (1999):* Olieforurening i Østersøen, april 1999. Oilops 125-99. Olieidentifikation. Danmarks Miljøundersøgelser. Afdeling for Miljøkemi. 45 s.\*

*Hansen, A.B. & Avnskjold, J. (1999):* Olieforurening i Østersøen, juli 1999. Oilops 287/99. Olieidentifikation. Danmarks Miljøundersøgelser. Afdeling for Miljøkemi. 21 s.\*

*Hansen, A.B. & Avnskjold, J. (1999):* Olieforureninger omkring Fehmern Bælt og Kattegat, januar 1999. Analyser og identifikation. Olieidentifikation. Danmarks Miljøundersøgelser. Afdeling for Miljøkemi. 85 s.\*

*Holmstrup, M. & Krogh, P.H. (1999):* Effects of LAS on Soil Fauna. In: SPT: LAS Risk Assessment for Sludge-Amended Soils. Report from SPT Workshop in Coordination with the Danish EPA, Eigtveds Pakhus, Copenhagen, Denmark, April 19-20, 1999. Copenhagen: SPT - The Association of Danish Cosmetics, Toiletries, Soap, and Detergent Industries. PP.16-19.

*Jacobsen, O.S., Brüsch, W., Fomsgaard, I.S., Helweg, A., Vinther, F.P., Spliid, N.H., Bossi, R. & Mogensen, B.B. (1998):* Leaching and Degradation of Selected Pesticides in a Sandy Watershed. Danish Environmental Protection Agency. 117 pp. - Pesticides Research 46.

*Jensen, J. (1999):* Jordkvalitet og miljøfremmede stoffer i slam. - Vand & Jord 6(1):5-7.

*Jensen, J. & Krogh, P.H. (1999):* Ecological Assessment of Sewage Sludge Application. In: Petersen, J. & Petersen, S.O. (eds.): Use of Municipal Organic Waste. Proceedings of NJF Seminar no. 292, Agricultural Research Centre, Jokioinen, Finland, November 23-25, 1998. Danish Institute of Agricultural Sciences. - DIAS Report Plant Production 13. 2nd volume:98-100.

*Krogh, P.H., Jensen, J., Holmstrup, M., Kristensen, H.L. & Scott-Fordsmand, J.J. (1999):* Økologiske effekter af miljøfremmede stoffer i slam. - Vand & Jord 6(1):13-15.

**Larsen, M.M., Pritzl, G., Jensen, J. & Bak, J.L. (1999):** Monitoring of Heavy Metals in Denmark. In: Heavy Metals in the Environment and Electromigration Applied to Soil Remediation. 2nd Symposium. July 7-9th 1999. Technical University of Denmark. pp. 1-8.

**Løkke, H. (1999):** Farlighed varierer for miljø og mennesker. I: Djørup, K. (red.): Kemikaliestrategien. Resumeé og redigeret udskrift af høring i Folketinget den 12. maj 1999. Teknologirådet. - Teknologirådets rapporter 1999/2:69-71.

**Løkke, H. (1999):** How to Bring all these Results Together into an Ecological Context, and How to Extrapolate to Field Conditions? What is PNEC for LAS? In: SPT: LAS Risk Assessment for Sludge-Amended Soils. Report from SPT Workshop in Coordination with the Danish EPA, Eigtveds Pakhus, Copenhagen, Denmark, April 19-20, 1999. Copenhagen: SPT - The Association of Danish Cosmetics, Toiletries, Soap, and Detergent Industries. PP.19-22.

**Løkke, H. (1999):** Kemikalieproblemets omfang. I: Djørup, K. (red.): Kemikaliestrategien. Resumé og redigeret udskrift af høring i Folketinget den 12. maj 1999. Teknologirådet. - Teknologirådets rapporter 1999/2:207-210.

**Løkke, H. & Sandbech, H. (1999):** Miljø- og sundhedsmæssige effekter af pesticider. - Tidsskrift for LANDØKONOMI 186(2):122-133.

**Pedersen, B. & Boer, J. de (1999):** The Joint QUASH Workshop on Monitoring Contaminants in Biota and Sample Handling of Biological Tissue. - QUASIMEME Bulletin 6:14-15.

**Petersen, S.O., Deboz, K., Elsgaard, L. & Krogh, P.H. (1999):** Effects of Organic Wastes on Microbiological Aspects of Soil Quality. In: Petersen, J. & Petersen, S.O. (eds.): Use of Municipal Organic Waste. Proceedings of NJF Seminar no. 292, Agricultural Research Centre, Jokioinen, Finland, November 23-25, 1998. Danish Institute of Agricultural Sciences. - DIAS Report Plant Production 13. 2nd volume:59-64.

**Schütze, G. & Terytze, K. With contributions from Jensen, J. (1998):** Working Group on Critical Limits for Persistent Organic Pollutants in Terrestrial Systems. In: Workshop on Critical Limits and Effects Based Approaches for Heavy Metals and Persistent Organic Pollutants, Proceedings. UN ECE Convention on Long-Range Transboundary Air Pollution, Task Force on Mapping. Bad Harzburg, Germany, November 3-7, 1997. - Texte 5/98:18-20.

**Simonsen, V. & Scott-Fordsmand, J.J. (1999):** Detailed Report of the Contractors. In: Kammenga, J.E. (ed.): Progress Report 1998 of BIOPRINT-II. Application and Standardisation of Biochemical Fingerprint Techniques in View of the Risk Assessment of Toxicants in Soil Ecosystem. Third Technical Report. National Environmental Research Institute, Denmark. - EU Environment and Climate Research Programme. Contract No. ENV4-CT96-0222 pp. 27-30.

#### **Populærfaglig formidling m.v.**

**Carlsen, L.:** Rav: Gudernes tårer eller krokodilletårer. Foredrag i Københavns Amatørgeologiske Forening, København, 12. November 1999.

**Danmarks Miljøundersøgelser (bidragyder) (1999):** Sådan forebygges og bekæmpes olieforureningen i danske havområder. - Faktuel 17:1-10.

**Mogensen, B.B., Spliid, N.H. & Helweg, A. (1999):** Bekæmpelsesmidler. Anvendelse og spredning i miljøet. Afdeling for Miljøkemi. 48 s.- TEMA-rapport fra DMU 26/1999.

#### **Indlæg ved kongresser, symposier m.v.**

**Baquer, A.J., Jensen, J. & Krogh, P.H.:** Ecotoxicological Effects of Oxytetracycline and Tylosin on Soil Living Fauna. Poster presented at the 9th Annual Meeting of SETAC-Europe. Quality in Life and Environment in Cultured Landscapes, University of Leipzig, Germany, May 25-29, 1999.

**Bossi, R., Mogensen, B.B. & Nyeland, B.:** Betydningen af analysekvalitet ved undersøgelse af organiske mikroforureninger i jord og vand. Poster præsenteret ved Dansk Miljøforskning 1999, H.C. Ørsted Institutet, København, 19.-20. august 1999.

**Bossi, R., Vejrup, K.V. & Krongaard, T.:** Multiresidue Method for the Determination of Acidic and Baseneutral Pesticides in Surface Water by LC/MS/MS with Atmospheric Pressure Ionization. 7th Symposium on the Chemistry and Fate of Modern Pesticides, University of Kansas, Lawrence, USA, 14-16 September 1999.

*Buckau, G., Hooker, P., Moulin, V., Schmeide, K., Maes, A., Warwick, P., Moulin, Ch., Pieri, J., Bryan, N., Carlsen, L., Klotz, D. & Trautmann, N.:* Effects of Humic Substances on the Migration of Radionuclides: Complexation and Transport of Actinides. 5th European Commission Conference on Radioactive Waste Management and Disposal and Decommissioning. Euradwaste '99, Luxembourg, 15-18 November 1999.

*Carlsen, L., Sørensen, P.B. & Thomsen, M.:* Estimation of Octanol-Water Distribution Coefficients. Using Partial Order Technique. 2nd Workshop on Partial Order Ranking Methods for Application and Method Development. Order Theoretical Tools in Environmental Sciences, Svaleholm, Risø, Roskilde, Denmark, 22 October 1999.

*Christoffersen, M.-L., Ingerslev, F., Halling-Sørensen, B., Tjørnelund, J., Lützhøft, H.C.H., Honoré Hansen, S., Jørgensen, S.E., Kusk, K.O., Toräng, L., Wollenberger, L., Nyholm, N., Rabølle, M., Spliid, N.H., Fomsgaard, I., Helweg, A., Jensen, J. & Krogh, P.H.:* Forekomst og miljømæssige egenskaber af antibiotika i organisk affald. Dansk Miljøforskning 1999, H.C. Ørsted Institutet, København, 19.-20. august 1999.

*Cleemann, M.:* Quality Assurance of Organochlorines Analysed within the Greenland AMAP Programme 1994-1996. Quality into the Next Century. A QUASIMEME/QUASH Conference, Egmond aan Zee, The Netherlands, 6-9 October 1999.

*Dobel, S.:* Analyzing Environmental Problems for a Public Audience using Hasse Diagrams. 2nd Workshop on Partial Order Ranking Methods for Application and Method Development. Order Theoretical Tools in Environmental Sciences, Svaleholm, Risø, Roskilde, Denmark, 22 October 1999.

*Dobel, S., Mogensen, B.B. & Sørensen, P.B.:* Validation of a Ranking Model in Relation to Danish Monitoring Data. 2nd Workshop on Partial Order Ranking Methods for Application and Method Development. Order Theoretical Tools in Environmental Sciences, Svaleholm, Risø, Roskilde, Denmark, 22 October 1999.

*Fausser, P., Sørensen, P.B. & Carlsen, L.:* Integrated Uncertainty Analysis of LAS Emission / Fate Models. Poster presented at the 9th Annual Meeting of SETAC-Europe, University of Leipzig, Germany, May 25-29 1999.

*Halling-Sørensen, B., Tjørnelund, J., Ingerslev, F., Christoffersen, M.L., Lützhøft, H.C.H., Toräng, L., Wollenberg, L., Nyholm, N., Kusk, K.O., Rabølle, M., Spliid, N.H., Fomsgaard, I., Helweg, A., Jensen, J. & Krogh, P.H.:* Occurrence and Environmental Properties of Antibiotics used in Danish Agriculture. Poster presented at the 9th Annual Meeting of SETAC-Europe. Quality in Life and Environment in Cultured Landscapes, University of Leipzig, Germany, May 25-29, 1999.

*Holmstrup, M.:* Stress Tolerance in Soil Invertebrates. Effects of Climate Change on Soil Animals in the Arctic Population Ecological, Ecophysiological and Ecotoxicological Approaches. A Nordic workshop, Silkeborg, Denmark, November 19-20, 1999.

*Holmstrup, M. & Krogh, P.H.:* Effects of LAS on Soil Fauna. LAS Risk Assessment for Sludge-Amended Soils. organized by SPT - The Association of Danish Cosmetics, Toiletries, Soap and Detergent Industries in coordination with the Danish EPA, Eigtved Pakhus, Copenhagen, Denmark, April 19-20, 1999.

*Jensen, J.:* Miljøfremmede stoffer i jord. Kilder, forekomst, grænseværdier og jordkvalitetskriterier. Konference om Miljøfremmede stoffer i vand- og jordmiljøet - forekomst, virkninger, handlemuligheder, Ferskvandscentret, Silkeborg, 4.-5. marts 1999.

*Jensen, J.:* Soil Quality Criteria in Denmark. 9th Annual Meeting of SETAC-Europe, Quality in Life and Environment in Cultured Landscapes, University of Leipzig, Germany, May 25-29 1999.

*Jensen, J., van Langevelde, J., Pritzl, G. & Krogh, P.H.:* Effects of di-(2-ethyl-hexylphthalate) (DEPH) and di-butylphthalate (DBP) on the Springtail *Folsomia fimetaria*. Dansk Miljøforskning 1999, H.C. Ørsted Institutet, København, 19.-20. august 1999.

*Jensen, J., van Langevelde, J. & Krogh, P.H.:* Effects of the Phthalates di-(2-ethyl-hexylphthalate) (DEHP) and di-butylphthalate (DBP) on the Collembolan *Folsomia fimetaria*. Poster presented at the 9th Annual Meeting of SETAC-Europe. Quality in Life and Environment in Cultured Landscapes, University of Leipzig, Germany, May 25-29, 1999.

*Kjær, C. & Strandberg, B.:* Effects of Copper on **Fallopia convolvulus** with Increasing Complexity/Realism of Test Conditions. Poster præsenteret ved Dansk Miljøforskning 1999, H.C. Ørsted Institutet, København, 19.-20. august 1999.

**Krogh, P.H.:** Global Change and Soil Ecotoxicology. Effects of Climate Change on Soil Animals in the Arctic Population Ecological, Ecophysiological and Ecotoxicological Approaches. A Nordic workshop, Silkeborg, Denmark, November 19-20, 1999.

**Krogh, P.H., Jensen, J., Holmstrup, M., Scott-Fordsmand, J.J. & Kristensen, H.L.:** Sludge in Denmark Contains about 3-4 g of Heavy Metals and Organic Contaminants per kg D.M. Poster presented at the 9th Annual Meeting of SETAC-Europe. Quality in Life and Environment in Cultured Landscapes, University of Leipzig, Germany, May 25-29, 1999.

**Krogh, P.H., Jensen, J., Holmstrup, M., Scott-Fordsmand, J.J. & Kristensen, H.L.:** Why is Sludge with Toxicant Load Non-Toxic in the Field? Poster presented at the 9th Annual Meeting of SETAC-Europe, University of Leipzig, Germany, May 25-29, 1999.

**Krogh, P.H., Jensen, J., Holmstrup, M., Scott-Fordsmand, J.J. & Kristensen, H.L.:** Why is Sludge with Toxicant Load Non-Toxic in the Field? Poster præsenteret ved Dansk Miljøforskning 1999, H.C. Ørsted Institut, København, 19.-20. august 1999.

**Larsen, M.M., Pritzl, G., Jensen, J. & Bak, J.L.:** Monitoring of Heavy Metals in Denmark. 2nd Symposium. Heavy Metals in the Environment and Electromigration Applied to Soil Remediation, Technical University of Denmark, Lyngby, Denmark, 7-9 July 1999.

**Løkke, H.:** How to Bring all these Results Together into an Ecological Context, and How to Extrapolate to Field Conditions? What is PNEC for LAS? LAS Risk Assessment for Sludge-Amended Soils SPT Workshop in Coordination with the Danish EPA, Eigtveds Pakhus, Copenhagen, Denmark, April 19-20, 1999.

**Løkke, H.:** Kemikalieproblemet omfang. Teknologirådets høring om kemikaliestrategien, Landstingssalen, Christiansborg, 12. maj 1999.

**Løkke, H.:** Miljøfremmede stoffers virkning på miljø og mennesker. Generel status over vores nuværende viden. Konference om Miljøfremmede stoffer i vand- og jordmiljøet - forekomst, virkninger, handlemuligheder, Ferskvandscentret, Silkeborg, 4.-5. marts 1999.

**Løkke, H. & Sandbech, H.:** Miljø- og sundhedsmæssige effekter af pesticider. Det Kgl. Danske Landhusholdningsselskab's Akademirådets seminar, Skal Danmark være pesticidfrit? Konsekvenser af pesticidudvalgets (Bicheludvalgets) arbejde, Den Kgl. Veterinær- og Landbohøjskole, Frederiksberg, 13. april 1999.

**Mogensen, B.B. & Bossi, R.:** Supercritical Fluid Extraction of Pyrethroids from Pond Sediments: Application to a Field Study. 7th Symposium on the Chemistry and Fate of Modern Pesticides, University of Kansas, Lawrence, USA, 14-16 September 1999.

**Nyeland, B.:** Analysekvalitet af pesticidanalyser. Møde arrangeret af Amternes Videncenter for Jordforurening, Hotel Marselis, Århus, 4. oktober 1999.

**Nyeland, B.:** Erfaringer med interlaboratorieprøvninger. Møde arrangeret af Foreningen af Kommunalt Ansatte Miljøkemikere (FAKAM), Vingsted Centret, Vejle, 1. december 1999.

**Nyeland, B.:** Hvorfor og hvordan bruger vi detektionsgrænser? Møde i Dansk Selskab for Miljøkemi om "Jagten på detektionsniveauer - er grænsen nået?" H.C. Ørsted Institut, København, 2. november 1999.

**Nyeland, B.:** Usikkerhed ved analyser. Status, udviklingstendenser og forslag til forbedringer. Vandmiljødagene, Nyborg Strand, 8.-9. december 1999.

**Nyeland, B.A.:** Analysekvalitet af kemiske miljømålinger. Måling & Kvalitet '99, Odense Kongrescenter, 27.-28. April 1999.

**Nyeland, B.A.:** Analysekvalitet for organiske parametre i NOVA 1998-2003. Laboratedag om "Kvalitetskrav til miljømålinger", Eigtveds Pakhus, København, 25. marts 1999.

**Rastogi, S.C.:** Regulation of Phthalates in Toys. Greenpeace Business Seminar on PVC Free Toys, Tokyo, Japan, 16 April 1999.

**Rastogi, S.C.:** The Conduct of Product Sampling Programmes. Invited speech at Conference on Practical Transposition and Maintenance of the EU Cosmetics Directive 76/768/EEC, Brussels, Belgium, 22-24 September 1999.

**Rastogi, S.C.:** The Equipment and Staffing Needs of a Control Laboratory. Invited speech at Conference on Practical Transposition and Maintenance of the EU Cosmetics Directive 76/768/EEC, Brussels, Belgium, 22-24 September 1999.

**Rastogi, S.C.:** The Work and Management of an Analytical Laboratory in the Cosmetics Sector. Invited speech at Conference on Practical Transposition and Maintenance of the EU Cosmetics Directive 76/768/EEC, Brussels, Belgium, 22-24 September 1999.

**Rastogi, S.C. & Jensen, G.H.:** Contents of Preservatives and Colorants in Cosmetic-Toys. Poster presented at PITTCON'99, Orange County Convention Center, Orlando, Florida, USA, 7-12 March 1999.

**Rastogi, S.C. & Jensen, G.H.:** HPLC Analysis of Preservatives in Cosmetic Products. Poster presented at the 23rd International Symposium on High Performance Liquid Phase Separations and Related Techniques. HPLC '99, Granada, Spain, May 30 - June 4, 1999.

**Scott-Fordsmand, J.J.:** Biomarkers in Earthworms. Poster præsenteret ved Dansk Miljøforskning 1999, H.C. Ørsted Institutet, København, 19.-20. august 1999.

**Scott-Fordsmand, J.J., Krogh, P.H., Kristensen, H.L. & Jensen, J.:** The Influence of Contaminated Sewage Sludge on Soil invertebrates and Microbial Communities. 9th Annual Meeting of SETAC-Europe. Quality in Life and Environment in Cultured Landscapes, University of Leipzig, Germany, May 25-29, 1999.

**Simonsen, V.:** Species? Effects of Climate Change on Soil Animals in the Arctic Population Ecological, Ecophysiological and Ecotoxicological Approaches. A Nordic workshop, Silkeborg, Denmark, November 19-20, 1999.

**Simonsen, V.:** Udveksling af gener mellem populationer. Poster præsenteret ved Dansk Miljøforskning 1999, H.C. Ørsted Institutet, København, 19.-20. august 1999.

**Sørensen, P.B., Carlsen, L. & Mogensen, B.B.:** Partial Order Ranking (Hasse Diagrams): How to Interpret the Results. Poster presented at the 9th Annual Meeting of SETAC-Europe, University of Leipzig, Germany, May 25-29 1999.

**Sørensen, P.B., Carlsen, L. & Mogensen, B.B.:** Uncertainty in Partial Order Ranking. 2nd Workshop on Partial Order Ranking Methods for Application and Method Development. Order Theoretical Tools in Environmental Sciences, Svaleholm, Risø, Roskilde, Denmark, 22 October 1999.

**Sørensen, P.B., Mogensen, B.B. & Carlsen, L.:** Matematiske modeller i miljøkemien. Datatolkning, usikkerhedsanalyse og forsigtighedsprincip. Dansk Miljøforskning 1999, H.C. Ørsted Institutet, København, 19.-20. august 1999.

**Sørensen, P.B., Vikelsøe, J. & Carlsen, L.:** Determination of Remediation Times for Sludge Amended Agricultural Soils. Poster presented at the 9th Annual Meeting of SETAC-Europe, University of Leipzig, Germany, May 25-29 1999.

**Thomsen, M., Dobel, S., Lassen, P., Carlsen, L., Mogensen, B.B. & Hansen, P.-E.:** Investigation of the Complex Formation between Esfenvalerate and Dissolved Humic Matter of Different Origin. Poster presented at the 1st Environmental Science Day, University of Roskilde, Denmark, 15 November 1999.

**Vikelsøe, J.:** Analyse af dioxin i miljøprøver. En gennemgang af dioxinanalysen belyst ved eksempler. Møde i Dansk Selskab for Miljøkemi om "Jagten på detektionsniveauer - er grænsen nået?" H.C. Ørsted Institutet, København, 2. november 1999.

**Vikelsøe, J.:** High Resolution Mass Spectrometry in Phthalate Analysis of Soil, Sludge, Water and Sediment. Phthalate Esters Environmental Analysis Workshop, Kortrijk, Belgium, 4-5 November 1999.

## **305 Luftforurening/Atmospheric Pollution**

### **Internationale videnskabelige publikationer**



**Ambelas Skjøth, C., Bastrup-Birk, A., Brandt, J. & Zlatev, Z. (1999):** Long-Term Calculations with Large Air Pollution Models. In: Zlatev, Z., Brandt, J., Builtjes, P.J.H., Carmichael, G., Dimov, I., Dongarra, J., Dop, H. van, Georgiev, K., Hass, H. & San Jose, R. (eds.): Large Scale Computations in Air Pollution Modelling. Kluwer. - NATO Science Series 2. Environmental Security 57:25-38.

**Ambelas Skjøth, C. & Zlatev, Z. (1999):** Handling the Output Data from Large-Scale Air Pollution Models. In: Hertel, O., Zlatev, Z., Larsen, S. & Mikkelsen, T. (eds.): Modelling Physical and Chemical Processes in the Atmosphere. Proceedings of a Risø-NERI Workshop, Roskilde, Denmark, 12-13 March 1998. National Environmental Research Institute. pp. 79-93.

**Andersen, H.V. & Hovmand, M.F. (1999):** Review of Dry Deposition Measurements of Ammonia and Nitric Acid to Forest. In: Hovmand, M.F. & Riis-Nielsen, T. (eds.): Mineral Cycling and Air Pollution Fluxes to Heath and Reforested Heathland. Papers Presented at an International Workshop held in Vedersø Klit, Ulfborg, Denmark, 26-28 August 1996. Elsevier. - Forest Ecology and Management 114(1):5-18.

**Andersen, H.V., Hovmand, M.F., Hummelshøj, P. & Jensen, N.O. (1999):** Measurements of Ammonia Concentrations, Fluxes and Dry Deposition Velocities to a Spruce Forest 1991-1995. - Atmospheric Environment 33:1367-1383.

**Bastrup-Birk, A., Brandt, J. & Zlatev, Z. (1999):** Real Time Predictions of Transport, Dispersion and Deposition from Nuclear Accidents. In: Zlatev, Z., Brandt, J., Builtjes, P.J.H., Carmichael, G., Dimov, I., Dongarra, J., Dop, H. van, Georgiev, K., Hass, H. & San Jose, R. (eds.): Large Scale Computations in Air Pollution Modelling. Kluwer. - NATO Science Series 2. Environmental Security 57:53-62.

**Bastrup-Birk, A., Brandt, J. & Zlatev, Z. (1999):** Studying Air Pollution Levels in Europe with the Danish Eulerian Model. In: San Jose, R. (ed.): Measuring and Modelling Investigation of Environmental Processes. Volume 2. WIT Press. - Environmental Engineering Series 2:71-105.

**Bendtsen, C., Zlatev, Z. & Østergaard, J. (1999):** Porting Large Scale Air Pollution Codes to Parallel Architectures. In: Hertel, O., Zlatev, Z., Larsen, S. & Mikkelsen, T. (eds.): Modelling Physical and Chemical Processes in the Atmosphere. Proceedings of a Risø-NERI Workshop, Roskilde, Denmark, 12-13 March 1998. National Environmental Research Institute. pp. 105-109.

**Bennett, M., Jørgensen, H.E., Lyck, E., Løfstrøm, P., Mikkelsen, T. & Ott, S. (1999):** A Case Study of Plume Dispersion During the Evolution of a Stable Nocturnal Boundary Layer. In: Davies, P. (ed.): Mixing and Dispersion in Stably Stratified Flows. Clarendon Press. - The Institute of Mathematics and its Applications Conference Series. New Series 68:439-453.

**Brandt, J., Christensen, J.H. & Zlatev, Z. (1999):** Real Time Predictions of Transport, Dispersion and Deposition from Nuclear Accidents. In: Zlatev, Z., Brandt, J. & Geernaert, G. (eds.): Selected Papers from the NATO Advanced Research Workshop on Large Scale Computations in Air Pollution Modelling, Sofia, 6-10 July 1998 - Environmental Management and Health 10(4):216-223.

**Christensen, C.S., Skov, H. & Palmgren, F. (1999):** C<sub>5</sub>-C<sub>8</sub> Non-methane Hydrocarbon Measurements in Copenhagen: Concentrations, Sources and Emission Estimates. - The Science of the Total Environment 236:163-171.

**Fenger, J. (1999):** Urban Air Quality. - Atmospheric Environment 33:4877-4900.

**Frohn, L.M. & Hertel, O. (1999):** The Use and Applicability of the ACDEP Model. In: Hertel, O., Zlatev, Z., Larsen, S. & Mikkelsen, T. (eds.): Modelling Physical and Chemical Processes in the Atmosphere. Proceedings of a Risø-NERI Workshop, Roskilde, Denmark, 12-13 March 1998. National Environmental Research Institute. pp. 15-29.

**Geernaert, G.L. (1999):** Future Directions. In: Geernaert, G.L. (ed.): Air-Sea Exchange: Physics, Chemistry and Dynamics. Kluwer Academic Publishers. pp. 557-574.

**Geernaert, G.L. (1999):** Historical Perspective. In: Geernaert, G.L. (ed.): Air-Sea Exchange: Physics, Chemistry and Dynamics. Kluwer Academic Publishers. pp. 1-24.

**Geernaert, G.L. (1999):** Theory of Air-Sea Momentum, Heat and Gas Fluxes. In: Geernaert, G.L. (ed.): Air-Sea Exchange: Physics, Chemistry and Dynamics. Kluwer Academic Publishers. pp. 25-48.

**Geernaert, G.L. (ed.) (1999):** Air-Sea Exchange: Physics, Chemistry and Dynamics. Kluwer Academic Publishers. 578 pp.

**Geernaert, G.L. & Astrup, P. (1999):** Wind Profile, Drag Coefficient and Cross-Section over the Coastal Zone for Quasi-Homogeneous Conditions. In: Banner, M.L. (ed.): The Wind-Driven Air-Sea Interface. Electromagnetic and Acoustic Sensing, Wave Dynamics and Turbulent Fluxes. Sydney: University of New South Wales. School of Mathematics. pp. 305-315.

**Georgiev, K. & Zlatev, Z. (1999):** Application of Parallel Algorithms in an Air Pollution Model. In: Zlatev, Z., Brandt, J., Builtjes, P.J.H., Carmichael, G., Dimov, I., Dongarra, J., Dop, H. van, Georgiev, K., Hass, H. & San Jose, R. (eds.): Large Scale Computations in Air Pollution Modelling. Kluwer. - NATO Science Series 2. Environmental Security 57:173-184.

**Georgiev, K. & Zlatev, Z. (1999):** Running the Danish Eulerian Model on Message Passing Computers. In: Hertel, O., Zlatev, Z., Larsen, S. & Mikkelsen, T. (eds.): Modelling Physical and Chemical Processes in the Atmosphere. Proceedings of a Risø-NERI Workshop, Roskilde, Denmark, 12-13 March 1998. National Environmental Research Institute. pp. 95-103.

**Heidam, N.Z., Wählin, P. & Christensen, J.H. (1999):** Tropospheric Gases and Aerosols in Northeast Greenland. - Journal of the Atmospheric Sciences 56(2):261-278.

**Hertel, O., Zlatev, Z., Larsen, S. & Mikkelsen, T. (eds.) (1999):** Modelling Physical and Chemical Processes in the Atmosphere. Proceedings of a Risø-NERI Workshop, Roskilde, Denmark, 12-13 March 1998. National Environmental Research Institute. 136 pp.

**Hovmand, M.F. (1999):** Cumulated Deposition of Strong Acid and Sulphur Compounds to a Spruce Forest. In: Hovmand, M.F. & Riis-Nielsen, T. (eds.): Mineral Cycling and Air Pollution Fluxes to Heath and Reforested Heathland. Papers Presented at an International Workshop held in Vedersø Klit, Ulfborg, Denmark, 26-28 August 1996. Elsevier. - Forest Ecology and Management 114(1):19-30.

**Palmgren, F., Berkowicz, R., Ziv, A. & Hertel, O. (1999):** Actual Car Fleet Emissions Estimated from Urban Air Quality Measurements and Street Pollution Models. - The Science of the Total Environment 235:101-109.

**Pleijel, H., Mortensen, L., Fuhrer, J., Ojanperä, K. & Danielsson, H. (1999):** Grain Protein Accumulation in Relation to Grain Yield of Spring Wheat (*Triticum aestivum* L.) Grown in Open-Top Chambers with Different Concentrations of Ozone, Carbon Dioxide and Water Availability. - Agriculture, Ecosystems and Environment 72:265-270.

**Pryor, S., Barthelmie, R.J., Geernaert, L.L.S., Ellermann, T. & Perry, K.D. (1999):** Speciated Particle Dry Deposition to the Sea Surface: Results from ASEPS '97. - Atmospheric Environment 33:2045-2058.

**Pryor, S.C., Barthelmie, R.J. & Jensen, B. (1999):** Nitrogen Dry Deposition at an AmeriFlux Site in a Hardwood Forest in the MidWest. - Geophysical Research Letters 26(6):691-694.

**Vignati, E. (1999):** Modelling Aerosol Mixing in the H<sub>2</sub>O-H<sub>2</sub>SO<sub>4</sub> and Soot System in Cloud-Free Conditions. In: Hertel, O., Zlatev, Z., Larsen, S. & Mikkelsen, T. (eds.): Modelling Physical and Chemical Processes in the Atmosphere. Proceedings of a Risø-NERI Workshop, Roskilde, Denmark, 12-13 March 1998. National Environmental Research Institute. pp. 31-46.

**Vignati, E., Berkowicz, R., Palmgren, F., Lyck, E. & Hummelshøj, P. (1999):** Transformation of Size Distributions of Emitted Particles in Streets. - The Science of the Total Environment 235:37-49.

**Vignati, E., Leeuw, G. de, Schulz, M. & Plate, E. (1999):** Characterization of Aerosols at a Coastal Site near Vindeby (Denmark). - Journal of Geophysical Research 104(C2):3277-3287.

**Zlatev, Z. (1999):** Development of Partitioned ODE Methods with an Application to Air Pollution Models. In: Iliev, O.P., Kaschiev, M.S., Margenov, S.D., Sendov, B.H. & Vassilevski, P.S. (eds.): Recent Advances in Numerical Methods and Applications II. Proceedings of the Fourth International Conference, NMA '98, Sofia, Bulgaria, 19-23 August 1998. World Scientific. pp. 135-146.

**Zlatev, Z., Brandt, J., Builtjes, P.J.H., Carmichael, G., Dimov, I., Dongarra, J., Dop, H. van, Georgiev, K., Hass, H. & San Jose, R. (eds.) (1999):** Large Scale Computations in Air Pollution Modelling. Kluwer. 392 pp. - NATO Science Series 2. Environmental Security 57.

**Zlatev, Z., Brandt, J. & Geernaert, G. (1999):** Selected Papers from the NATO Advanced Research Workshop on Large Scale Computations in Air Pollution Modelling, Sofia, 6-10 July 1998. MCB University Press. 82 pp. - Environmental Management and Health 10(4).

### **Afhandlinger**

**Vignati, E. (1999):** Modelling Interactions between Aerosols and Gaseous Compounds in the Polluted Marine Atmosphere. PhD thesis. University of Copenhagen. The Niels Bohr Institute for Astronomy, Physics and Geophysics, National Environmental Research Institute. Department of Atmospheric Environment, Joint Research Centre. Environment Institute and Risø National Laboratory. Wind Energy and Atmospheric Physics Department. 133 pp. - Risø-R-1163 (EN).

### **DMU rapporter**

**Berkowicz, R., Fenger, J. & Winther, M. (1999):** Luftforurening ved en planlagt udvidelse af Billund Lufthavn. Undersøgelse udført af Danmarks Miljøundersøgelser for Billund Lufthavn. Afdeling for Atmosfærisk Miljø og Afdeling for Systemanalyse. 88 s.- Faglig rapport fra DMU 278.

**Kemp, K. & Palmgren, F. (1999):** The Danish Air Quality Monitoring Programme. Annual Report for 1998. Department of Atmospheric Environment. 66 pp.- NERI Technical Report 296.

**Skov, H., Hertel, O., Ellermann, T., Ambelas Skjøth, C. & Heidam, N.Z. (1999):** Atmosfærisk deposition af kvælstof 1998. NOVA 2003. Afdeling for Atmosfærisk Miljø. 102 s.- Faglig rapport fra DMU 289.

### **Øvrige faglige artikler, rapporter og bogbidrag**

**Ambelas Skjøth, C., Brandt, J. & Zlatev, Z. (1999):** Long-Term Computations with the Danish Eulerian Model. In: José, R.S. & Builtjes, P.J.H.: Proceedings 2nd GLOREAM Workshop. Madrid, September 16-19, 1998. EUROTRAC II. Technical University of Madrid and TNO-MEP. pp. 116-128.

**Asman, W.A.H., Andersen, J., Løfstrøm, P., Hutchings, N.J. & Sommer, S. (1999):** Tools to Control Ammonia and Odour from Danish Agriculture. In: Kunisch, M. & Eckel, H. (eds.): Regulation of Animal Production in Europe. International Congress in Wiesbaden, May 9-12, 1999. Darmstadt: Kuratorium für Technik und Bauwesen in der Landwirtschaft e.V. - Arbeitspapier 270:243-248.

**Bastrup-Birk, A., Brandt, J. & Zlatev, Z. (1999):** Modelling Atmospheric Transport, Dispersion and Deposition on Short and Long Range Validation against ETEX-1 and ETEX-2, and Chernobyl. In: Borrell, P.M. & Borrell, P. (eds.): Proceedings of EUROTRAC Symposium '98, Garmisch-Partenkirchen, Germany, 23rd-27th March 1998. Transport and Chemical Transformation in the Troposphere. Volume 2. WIT Press. pp. 570-574.

**Bastrup-Birk, A., Brandt, J. & Zlatev, Z. (1999):** Studying Air Pollution Problems in Europe Using the Danish Eulerian Model and TreGro. In: Borrell, P.M. & Borrell, P. (eds.): Proceedings of EUROTRAC Symposium '98, Garmisch-Partenkirchen, Germany, 23rd-27th March 1998. Transport and Chemical Transformation in the Troposphere. Volume 2. WIT Press. pp. 565-569.

**Brandt, J., Christensen, J., Ebel, A., Elbern, H., Jakobs, H., Memmesheimer, M., Mikkelsen, T., Thykier-Nielsen, S. & Zlatev, Z. (1998):** ETEX-1, 2nd Phase. Calculations Performed by NERI/Risø (Denmark) and the University of Cologne (Germany). In: Mosca, S., Bianconi, R., Bellasio, R., Graziani, G. & Klug, W. (eds.): ATMES II - Evaluation of Long-Range Dispersion Models using Data of the 1st ETEX Release. European Commission. - EUR 17756 EN: (in appendix B).

**Brandt, J., Christensen, J.H. & Zlatev, Z. (1999):** Modelling of High-Resolution Long-Range Transport and Depositions from the Chernobyl Accident by using DREAM. In: José, R.S. & Builtjes, P.J.H.: Proceedings 2nd GLOREAM Workshop. Madrid, September 16-19, 1998. EUROTRAC II. Technical University of Madrid and TNO-MEP. pp. 135-146.

**Christensen, C.S., Hummelshøj, P., Jensen, N.O., Larsen, B., Skov, H., Pilegaard, K. & Lohse, C. (1999):** An REA System for Measurements of Terpene Fluxes. In: Borrell, P.M. & Borrell, P. (eds.): Proceedings of EUROTRAC Symposium '98, Garmisch-Partenkirchen, Germany, 23rd-27th March 1998. Transport and Chemical Transformation in the Troposphere. Volume 2. WIT Press. pp. 79-83.

**Ellermann, T., Hertel, O., Skov, H. & Frohn, L. (1999):** Assessment of Nitrogen Load to Danish Seas, Fjords, Creeks and Bays. In: Borrell, P.M. & Borrell, P. (eds.): Proceedings of EUROTRAC Symposium '98, Garmisch-

Partenkirchen, Germany, 23rd-27th March 1998. Transport and Chemical Transformation in the Troposphere. Volume 2. WIT Press. pp. 331-334.

**Fenger, J.** (1999): Drivhuseffekt og klimaændringer - science fiction eller science facts. I: Schroll, H., Fog, K., Ege, C. & Christiansen, J.L. (red.): Fremtidens pris. Talmagi i miljøpolitikken. Mellempfolkeligt Samvirke og Det Økologiske Råd. s. 184-197.

**Frohn, L.M. & Geernaert, G.** (1999): Emission Scenario Development. In: Johansson, M. & Lindström, M. (eds.): National Integrated Assessment Modelling. Workshop Report of Project Coupling of CORINAIR Data to Cost-Effective Emission Reduction Strategies Based on Critical Thresholds at the National Italian Board for New Technologies, Energy and Environment - ENEA, Rome, Italy, June 7-8, 1999 (EU/LIFE97/ENV/FIN336). Helsinki: Finnish Environment Institute. - The Finnish Environment 371:22-23.

**Geernaert, G.L.** (1999): The Influence of Coastal Processes on Aerosol Composition, Air Chemistry and Marine Eutrophication. In: Borrell, P.M. & Borrell, P. (eds.): Proceedings of EUROTRAC Symposium '98, Garmisch-Partenkirchen, Germany, 23rd-27th March 1998. Transport and Chemical Transformation in the Troposphere. Volume 2. WIT Press. pp. 307-311.

**Granby, K., Geernaert, G., Wåhlin, P., Palmgren, F., Leong, C.P. & Lim, S.F.** (1999): Particulate and Gaseous Air Pollutants Measured in Malaysia during the 1997 Haze Episode. In: Borrell, P.M. & Borrell, P. (eds.): Proceedings of EUROTRAC Symposium '98, Garmisch-Partenkirchen, Germany, 23rd-27th March 1998. Transport and Chemical Transformation in the Troposphere. Volume 1. WIT Press. pp. 542-545.

**Hertel, O., Berkowicz, R., Palmgren, F., Genikhovich, E., Ziv, A. & Iakovleva, E.** (1999): Determination of Traffic Emissions from Pollution Measurements and Dispersion Modelling. In: Borrell, P.M. & Borrell, P. (eds.): Proceedings of EUROTRAC Symposium '98, Garmisch-Partenkirchen, Germany, 23rd-27th March 1998. Transport and Chemical Transformation in the Troposphere. Volume 2. WIT Press. pp. 796-801.

**Jensen, F.P.** (1999): The Monitoring Technologies and Models in Urban Air Quality Management. In: International Workshop on "Urban Air Quality Management: Practice and Experience in EU and China". May 28-30, 1999, Beijing. Beijing: The EU-China Small Project Facility 1998. pp. 48-52.

**Jensen, F.P.** (1999): Urban Air Quality Management. Practice and Experience in EU. In: International Workshop on "Urban Air Quality Management: Practice and Experience in EU and China". May 28-30, 1999, Beijing. Beijing: The EU-China Small Project Facility 1998. pp. 10-14a.

**Kemp, K.** (1999): Måling af partikler mindre end 2,5 µm (PM2.5). I: Standardisering på luftområdet. Dansk Standard. - Nyhedsbrev Forår 1999:8-9.

**Krzyzanowski, M. (ed.). With contributions from G. Geernaert** (1999): Health Risk of Particulate Matter from Long Range Transboundary Air Pollution. Preliminary Assessment. World Health Organization Regional Office for Europe and United Nations Economic Commission for Europe. 56 pp.

**Leeuw, G. de, Kunz, G.J., Moerman, M., Cohen, L.H., Schlüßgen, H., Klein, L., Müller, F., Salzen, K. von, Schulz, M., Tamm, S., Plate, E., Geernaert, G., Hertel, O., Vignati, E., Frohn, L., Pedersen, B., Jensen, B., Sørensen, L.L., Lund, S., Jickells, T. & Spokes, L.** (1999): Atmospheric Nitrogen Inputs into the Coastal Ecosystem (ANICE) ENV4-CT97-0594. First Annual Report (February 1, 1998 - January 31, 1999). TNO Physics and Electronics Laboratory. 60 pp. - TNO Report FEL-99-C123.

**Moussiopoulos, N., Hout, K.D. van den, Mestayer, P., Palmgren, F., Schatzmann, M. & Borrego, C.** (1999): Report on the Work of the Subproject. In: SATURN. Studying Atmospheric Pollution in Urban Areas. Annual Report 1998. München: EUROTRAC International Scientific Secretariat. pp. 1-28.

**Moussiopoulos, N., Hout, K.D. van den, Mestayer, P., Palmgren, F., Schatzmann, M. & Borrego, C. (eds.)** (1999): SATURN. Studying Atmospheric Pollution in Urban Areas. Annual Report 1998. München: EUROTRAC International Scientific Secretariat. 191 pp.

**Palmgren, F., Berkowicz, R., Egeløv, A., Hertel, O., Kemp, K. & Larsen, S.E.** (1999): Experimental Studies of Air Pollution in Street Canyons. In: Borrell, P.M. & Borrell, P. (eds.): Proceedings of EUROTRAC Symposium '98, Garmisch-Partenkirchen, Germany, 23rd-27th March 1998. Transport and Chemical Transformation in the Troposphere. Volume 2. WIT Press. pp. 811-815.

**Palmgren, F., Berkowicz, R., Hertel, O. & Vignati, E. (1999):** Car Fleet Emissions Estimated from Urban Air Quality Measurements and Street Pollution Models. In: SATURN. Studying Atmospheric Pollution in Urban Areas. Annual Report 1998. München: EUROTRAC International Scientific Secretariat. pp. 118-121.

**Pedersen, T., Larsen, N.W., Hansen, A.W., Christensen, J., Kiilsholm, S., Sørensen, L.-L. & Larsen, S. (1999):** Carbons kredsløb - den store ubekendte i drivhusproblematikken. - Dansk Kemi 80(4):8-13.

**Pryor, S.C., Barthelmie, R.J., Geernaert, L.L.S., Jensen, B. & Ellermann, T. (1999):** Aerosol Dry Deposition: the Contribution to Nitrogen Flux in the Western Baltic. - Journal of Aerosol Science 30(Suppl. 1):S91-S92.

**Rühling, Å. & Steinnes, E. (eds.). With contributions from M.M. Larsen and Department of Terrestrial Ecology (1998):** Atmospheric Heavy Metal Deposition in Europe 1995-1996. Nordic Council of Ministers. 66 pp. - Nord 1998:15.

**Skov, H. (1999):** Standard metode for benzen målinger i atmosfæren. I: Standardisering på luftområdet. Dansk Standard. - Nyhedsbrev Forår 1999:6.

**Zlatev, Z., Brandt, J., Builtjes, P.J.H., Carmichael, G., Dimov, I., Dongarra, J., Dop, H. van, Georgiev, K., Hass, H. & San Jose, R. (1999):** Conclusions of the NATO ARW on Large Scale Computations in Air Pollution Modelling. In: Zlatev, Z., Brandt, J., Builtjes, P.J.H., Carmichael, G., Dimov, I., Dongarra, J., Dop, H. van, Georgiev, K., Hass, H. & San Jose, R. (eds.): Large Scale Computations in Air Pollution Modelling. Kluwer. - NATO Science Series 2. Environmental Security 57:381-384.

**Zlatev, Z., Geernaert, G. & Skov, H. (1999):** A Study of Ozone Critical Levels in Denmark over a Ten-Year Period. - EURASAP Newsletter 36:1-9.

#### **Populærfaglig formidling m.v.**

**Fenger, J. (1999):** Fra forskning til offentligheden. - Aktuelt Miljø 1:35-37.

**Fenger, J., Berkowicz, R. & Winther, M. (1999):** Lufthavne og luftforurening. - Stads- og Havneingeniøren 9:10-13.

**Fenger, J., Skov, H., Christensen, C.S., Essenbæk, M., Larsen, D. & Sørensen, L. (1999):** Indendørs luftforurening i rekonstruerede jernalderhuse. - Miljø og sundhed 11:8-9.

**Fondazione Salvatore Maugeri-IRCCS (ed.) With contributions from H. Skov (1999):** MACBETH. Benzene Urban Pollution and Population Exposure. Padova: Fondazione Salvatore Maugeri-IRCCS. Centro di Ricerche Ambientali. 7 pp.

**Palmgren, F., Hertel, O. & Fenger, J. (1999):** Hvor mange dør egentlig af luftforurening? Abstract fra SMF's årsmøde 1999. - Miljø og sundhed 12:26-27.

#### **Indlæg ved kongresser, symposier m.v.**

**Ambelas Skjøth, C., Zlatev, Z. & Skov, H.:** The EU Critical Levels for Ozone: are these Exceeded in Denmark? Poster presented at the 1st DSAR Conference, Eigtveds Pakhus, Copenhagen, Denmark, 14-15 October 1999.

**Andersen, H.V.:** Concentration Levels of Gaseous Nitric Acid and Particulate Nitrate in Western Jutland. Poster presented at the 1st DSAR Conference, Eigtveds Pakhus, Copenhagen, Denmark, 14-15 October 1999.

**Andersen, H.V., Hovmand, M.F., Hummelshøj, P. & Jensen, N.O.:** Measurements of Ammonia Concentrations, Fluxes and Dry Deposition Velocities to a Spruce Forest in Denmark 1991-1995. 1st DSAR Conference, Eigtveds Pakhus, Copenhagen, Denmark, 14-15 October 1999.

**Asman, W.A.H., Andersen, J., Løfstrøm, P., Hutchings, N.J. & Sommer, S.:** Tools to Control Ammonia and Odour from Danish Agriculture. International Congress on Regulation of Animal Production in Europe, Wiesbaden, Germany, 9-12 May 1999.

**Brandt, J.:** DMU's system for prognoser af overfladeozon-koncentrationerne. Inviteret foredrag ved møde om ozon arrangeret af Dansk Meteorologisk Selskab på H.C. Ørsted Institutet, Forskningscenter Risø og Århus Universitet. Institut for Matematiske Fag (videotransmitteret), Danmark, 30. september 1999.

**Brandt, J. & Christensen, J.H.:** Luftforureningsudsigter for Europa og Danmark. Poster præsenteret ved Green Mermaid Festival, København, 1.-6. juni 1999.

**Brandt, J. & Christensen, J.H.:** Modelling af operationelle luftforureningsprognoser fra europæisk skala til lokal skala. Dansk Miljøforskning 1999, H.C. Ørsted Institutet, København, 19.-20. august 1999.

**Brandt, J., Christensen, J.H., Frohn, L.M., Berkowicz, R. & Zlatev, Z.:** DMU-ATMI THOR Air Pollution Forecast System - an Integrated Operational Forecast System on Regional and Urban Scale. 1st DSAR Conference, Eigtveds Pakhus, Copenhagen, Denmark, 14-15 October 1999.

**Brandt, J., Christensen, J.H., Frohn, L.M. & Zlatev, Z.:** Optimization of Operational Air Pollution Forecast Modelling on European Scale. III Annual Workshop of the GLOREAM Project, Ischia, Italy, 22-24 September 1999.

**Brandt, J., Christensen, J.H., Palmgren, F. & Zlatev, Z.:** Operational Air Pollution Forecasts on European and Local Scale. Poster presented at the International Conference Air Quality in Europe. Challenges for the 2000s, Venice, Italy, 19-21 May 1999.

**Brandt, J., Christensen, J.H. & Zlatev, Z.:** Operational Air Pollution Forecast Modelling using THOR. European Geophysical Society XXIV General Assembly, Den Haag, The Netherlands, 19-23 April 1999.

**Brandt, J., Christensen, J.H. & Zlatev, Z.:** Regional Air Pollution Forecasting and Scenarios. Invited speech at the Workshop on Coupling Dynamics, Physics and Chemistry for Atmospheric Pollution Studies at the Medium and Small Scales, European Centre for Research and Advance Training in Scientific Computation (CERFACS), Toulouse, France, 1-2 July 1999.

**Christensen, C.S. & Skov, H.:** Målinger af kulbrinteemissioner fra vegetation til atmosfæren. Poster præsenteret ved Dansk Miljøforskning 1999, H.C. Ørsted Institutet, København, 19.-20. august 1999.

**Christensen, J.:** An Overview of Modelling the Arctic Mass Budget of Metals and Sulphur: Emphasis on Source Apportionment of Atmospheric Burden and Deposition. Modelling and Sources - a Workshop on Techniques and Associated Uncertainties in Quantifying the Origin and Long-Range Transport of Contaminants to the Arctic, Bergen, Norway, 14-16 June 1999.

**Ellermann, T. & Geernaert, G.L.:** Luftbårne målinger af variabilitet af kystnære atmosfæriske processer. Poster præsenteret ved Dansk Miljøforskning 1999, H.C. Ørsted Institutet, København, 19.-20. august 1999.

**Ellermann, T., Sørensen, L.L., Pryor, S.C. & Barthelmie, R.J.:** Effekt af heterogene kemiske reaktioner på salpetersyrefluks i kystområder. Poster præsenteret ved Dansk Miljøforskning 1999, H.C. Ørsted Institutet, København, 19.-20. august 1999.

**Fenger, J.:** Status for vor viden om klimaproblemer. Møde om "Klimaforandringer - Status, resultater og opfølgning af FN's konference i Buenos Aires, November 1998" arrangeret af IDAmiljø, København, 2. marts 1999.

**Fenger, J., Skov, H., Christensen, C.S., Essenbæk, M., Larsen, D. & Sørensen, L.:** Indendørs luftforurening i et rekonstrueret jernalderhus. Poster præsenteret ved Dansk Miljøforskning 1999, H.C. Ørsted Institutet, København, 19.-20. august 1999.

**Frohn, L.M., Brandt, J., Hertel, O. & Christensen, J.H.:** Development of a High Resolution 3-D Model for Air Pollution Studies in Denmark. 1st Workshop on Integrated Approaches to Drainage Basin Nutrient Inputs and Coastal Eutrophication arranged by the Nordic Network for Research and Education, Tvärminne, Finland, 17-21 November 1999.

**Frohn, L.M., Christensen, J.H., Brandt, J. & Hertel, O.:** Development of a High Resolution Model for Studying Air Pollution. III Annual Workshop of the GLOREAM Project, Ischia, Italy, 22-24 September 1999.

**Frohn, L.M. & Geernaert, G.:** Emission Scenario Development. Workshop on National Integrated Assessment Modelling (NIAM), ENEA, Rome, Italy, 7-8 June 1999.

**Geernaert, G.L. & Astrup, P.:** Wind Profile, Drag Coefficient and Cross-Section over the Coastal Zone for Quasi-Homogeneous Conditions. Symposium on The Wind-Driven Air-Sea Interface. Electromagnetic and Acoustic Sensing, Wave Dynamics and Turbulent Fluxes, Sydney, Australia, 11-15 January 1999.

**Heidam, N.Z.:** Background Air Quality in Denmark 1978-1997. Second EMEP/WMO Workshop on Data Analysis and Interpretation, Dubrovnik, Croatia, 4-8 October 1999.

**Heidam, N.Z.:** Luftkvaliteten i danske baggrundsområder gennem 20 år. Dansk Miljøforskning 1999, H.C. Ørsted Institutet, København, 19.-20. august 1999.

**Hertel, O.:** Application of Models in the Danish Monitoring Programmes - Recent Developments. Second EMEP/WMO Workshop on Data Analysis and Interpretation, Dubrovnik, Croatia, 4-8 October 1999.

**Hertel, O.:** Måling og modellering af befolkningens eksponering med luftforurening. Møde om "Kræft og astma - effekter af luftforurening" arrangeret af IDAmiljø, Ingeniørhuset, København, 4. november 1999.

**Hertel, O.:** Urban Air Pollution and Human Exposure in Denmark. Seminar on the Control of NO<sub>x</sub> Pollution Caused by Motor Vehicle Emissions, Guangzhou Green Country Ecological Education Center, Guangzhou, China, 22-25 November 1999.

**Hertel, O.:** Urban Air Quality and Human Exposure - Experiences from Danish Research and Monitoring. Seminar at University of Hong Kong. Department of Mechanical Engineering, 1 December 1999.

**Hertel, O., Fenger, J. & Palmgren, F.:** Indlæggelser og dødsfald som følge af eksponering med luftforurening - hvad fortæller tallene os, hvor sikre er vore bestemmelser og hvad er der behov for at gøre fremover? Dansk Miljøforskning 1999, H.C. Ørsted Institutet, København, 19.-20. august 1999.

**Hertel, O., Frohn, L.M., Vignati, E., Ellermann, T., Skov, H. & Geernaert, G.:** Atmospheric Nitrogen Deposition to Marine Coastal Waters - How Well do We Describe Source - Receptor Relationships? ELOISE/LOICZ Workshop on Socio-Economic Aspects of Fluxes of Chemicals into the Marine Environment, NILU, Kjeller, Norway, 8-10 March 1999.

**Jensen, F.P.:** Overvågning af luftforurening. Konference om Trafik og luftforurening, Skejby Sygehus, Århus, 11. januar 1999.

**Jensen, F.P.:** The Monitoring Technologies and Models in Urban Air Quality Management. International Workshop on "Urban Air Quality Management: Practice and Experience in EU and China", Beijing, China, 28-30 May 1999.

**Jensen, F.P.:** Urban Air Quality Management. Practice and Experience in EU. International Workshop on "Urban Air Quality Management: Practice and Experience in EU and China", Beijing, China, 28-30 May 1999.

**Kemp, K.:** Hvorledes udvikler luftkvaliteten sig i Danmark og hvordan informerer vi borgerne? Møde om "Kræft og astma - effekter af luftforurening" arrangeret af IDAmiljø, Ingeniørhuset, København, 4. november 1999.

**Leeuw, G. de, Cohen, L., Kunz, G.J., Moerman, M., Geernaert, G., Hertel, O., Jensen, B., Pedersen, B., Vignati, E., Sørensen, L.-L., Lund, S., Jickells, T., Spokes, L., Schliünzen, H., Klein, L., Salzen, K. von, Schulz, M. & Tamm, S.:** Atmospheric Nitrogen Inputs into the Coastal Ecosystem (ANICE): The Southern North Sea as a Study Area. Poster presented at the European Aerosol Conference, Prague, Czech Republic, 6-10 September 1999.

**Lemaitre, P. & Fenger, J.:** The 21st Century's Global Security Agenda. A Stability - Instability Predicament. 9th General EADI Conference, Paris, France, 22-25 September 1999.

**Løfstrøm, P.:** Spredningsmodeller til beregning af lugtbelastning. Inviteret foredrag ved temamøde: Måling af lugt. Industri, arbejdsmiljø og indeklima, dk-Teknik, København, 15. april 1999.

**Moussiopoulos, N., Palmgren, F., Mestayer, P., Schatzmann, M. & Hout, D. van den:** Introduction to SATURN (Studying Atmospheric Pollution in Urban Areas). Poster presented at the International Conference Air Quality in Europe. Challenges for the 2000s, Venice, Italy, 19-21 May 1999.

**Olesen, H.R.:** Model Validation Kit - Recent Developments. 6th International Conference on Harmonisation within Atmospheric Dispersion Modelling for Regulatory Purposes, Rouen, France, 11-14 October 1999.

**Owczarz, W. & Zlatev, Z.:** Running a Large Air Pollution Model on an IBM SMP Computer. III Annual Workshop of the GLOREAM Project, Ischia, Italy, 22-24 September 1999.

**Palmgren, F.:** Overvågning i Danmark - hvordan implementerer vi den seneste lovgivning fra EU herunder hvordan håndterer vi sundhedsskadelige partikler? Møde om "Kræft og astma - effekter af luftforurening" arrangeret af IDAmiljø, Ingeniørhuset, København, 4. november 1999.

**Palmgren, F., Hansen, A.B. & Berkowicz, R.:** Benzene Emission from the Actual Car Fleet in Relation to Petrol Composition in Denmark. Poster presented at the International Conference Air Quality in Europe. Challenges for the 2000s, Venice, Italy, 19-21 May 1999.

**Palmgren, F. & Wåhlin, P.:** Experimental Studies of Fine and Ultrafine Particles in Streets and the Relationship to Traffic. Poster presented at the International Conference Air Quality in Europe. Challenges for the 2000s, Venice, Italy, 19-21 May 1999.

**Palmgren, F., Wåhlin, P., Berkowicz, R. & Hertel, O.:** Ultrafine partikler. Luftforurening fra trafikken og befolkningseksposering. Dansk Miljøforskning 1999, H.C. Ørsted Institutet, København, 19.-20. august 1999.

**Pryor, S.C., Barthelmie, R.J., Geernaert, L.L.S., Jensen, B. & Ellermann, T.:** Aerosol Dry Deposition: the Contribution to Nitrogen Flux in the Western Baltic. European Aerosol Conference, Prague, Czech Republic, 6-10 September 1999.

**Schmidt, A.L., Kemp, K., Bronée, P. & Fenger, J.:** Impact of Airborne Dust on Museum Exhibits in Copenhagen. Poster presented at the International Conference Air Quality in Europe. Challenges for the 2000s, Venice, Italy, 19-21 May 1999.

**Skov, H.:** Reference and Indicative Method for Benzene. RSC-meeting on "Monitoring for the Millenium", Scientific Societies Lecture Theatre, London, United Kingdom, 15-16 December 1999.

**Skov, H., Christensen, C.S. & Jensen, F.P.:** State of the Art of Benzene Measurement Techniques. International Conference on Air Quality in Europe. Challenges for the 2000s, Venice, Italy, 19-21 May 1999.

**Skov, H. & Christensen, J.:** Atmospheric Mercury in the Arctic. Poster presented at the 1st DSAR Conference, Eigtveds Pakhus, Copenhagen, Denmark, 14-15 October 1999.

**Skov, H., Ellermann, T., Hertel, O. & Frohn, L.:** Udviklingen af nitrogendepositionen fra atmosfæren til de danske farvande for perioden 1988 til 1998. Dansk Miljøforskning 1999, H.C. Ørsted Institutet, København, 19.-20. august 1999.

**Skov, H., Hansen, A.B., Lorenzen, G., Andersen, H.V. & Christensen, C.S.:** Benzene Indoor and Outdoor Concentrations together with Personal Exposure Measured in Copenhagen. Poster presented at the International Conference Air Quality in Europe. Challenges for the 2000s, Venice, Italy, 19-21 May 1999.

**Skov, H., Hansen, A.B., Lorenzen, G., Andersen, H.V., Christensen, C.S. & Løfstrøm, P.:** Personal Exposure of People Living and Working in Copenhagen. Poster presented at the 1st DSAR Conference, Eigtveds Pakhus, Copenhagen, Denmark, 14-15 October 1999.

**Skov, H. & Zlatev, Z.:** Overskrider ozon i Danmark de kritiske niveauer i det foreslåede nye ozon direktiv? Poster præsenteret ved Dansk Miljøforskning 1999, H.C. Ørsted Institutet, København, 19.-20. august 1999.

**Swietlicki, E., Hertel, O., Wåhlin, P., Palmgren, F., Berkowicz, R., Persson, C., Häggkvist, K. & Langner, J.:** Luftburna partikler i Öresundsregionen. Förslag till ett gemensamt dansk-svenskt luftvårdsprojekt inom ramen för "Själland och Skåne före, under och efter Bron - Miljökonsekvenser". Forskersymposium om "Miljø og tilvækst i Öresundsregionen", Den Kgl. Veterinær- og Landbohøjskole, København, 19. maj 1999.

**Wåhlin, P. & Palmgren, F.:** Experimental Studies of Fine and Ultrafine Particles in Streets and the Relationship to Traffic. Poster presented at the 1st DSAR Conference, Eigtveds Pakhus, Copenhagen, Denmark, 14-15 October 1999.

**Wåhlin, P. & Palmgren, F.:** Studies and Analysis of Ultrafine Particles from Traffic. 1st DSAR Conference, Eigtveds Pakhus, Copenhagen, Denmark, 14-15 October 1999.

## 306 Ferskvand

### Internationale videnskabelige publikationer



**Andersen, H.E., Kronvang, B. & Larsen, S.E. (1999):** Agricultural Practices and Diffuse Nitrogen Pollution in Denmark. Empirical Leaching and Catchment Models. - *Water Science and Technology* 39(12):257-264.

**Baatrup-Pedersen, A. & Madsen, T.V. (1999):** Interdependence of CO<sub>2</sub> and Inorganic Nitrogen on Crassulacean Acid Metabolism and Efficiency of Nitrogen Use by *Littorella uniflora* (L.) Aschers. - *Plant, Cell and Environment* 22:535-542.

**Baatrup-Pedersen, A. & Riis, T. (1999):** Macrophyte Diversity and Composition in Relation to Substratum Characteristics in Regulated and Unregulated Danish Streams. - *Freshwater Biology* 42:375-385.

**Beklioglu, M. & Jeppesen, E. (1999):** Behavioural Response of Plant-associated *Eurycercus lamellatus* (Ö.F. Müller) to different Food Sources and Fish Cues. - *Aquatic Ecology* 33:167-173.

**Blicher-Mathiesen, G. & Hoffmann, C.C. (1999):** Denitrification as a Sink for Dissolved Nitrous Oxide in a Freshwater Riparian Fen. - *Journal of Environmental Quality* 28(1):257-262.

**Friberg, N. & Jacobsen, D. (1999):** Variation in Growth of the Detritivore-Shredder *Sericostoma personatum* (Trichoptera). - *Freshwater Biology* 42(4):625-635.

**Iversen, T.M., Grant, R. & Nielsen, K. (1998):** Nitrogen Enrichment of European Inland and Marine Waters with Special Attention to Danish Policy Measures. - *Environmental Pollution* 102, S1:771-780.

**Jeppesen, E., Søndergaard, M., Kronvang, B., Jensen, J.P., Svendsen, L.M. & Lauridsen, T.L. (1999):** Lake and Catchment Management in Denmark. - *Hydrobiologia* 395/396:419-432.

**Jürgens, K., Skibbe, O. & Jeppesen, E. (1999):** Impact of Metazooplankton on the Composition and Population Dynamics of Planktonic Ciliates in a Shallow, Hypertrophic Lake. - *Aquatic Microbial Ecology* 17:61-75.

**Kronvang, B., Hoffmann, C.C., Svendsen, L.M., Windolf, J., Jensen, J.P. & Dørge, J. (1999):** Retention of Nutrients in River Basins. - *Aquatic Ecology* 33:29-40.

**Krysanova, V., Bronstert, A. & Müller-Wohlfeil, D.-I. (1999):** Modelling River Discharge for Large Drainage Basins - from Lumped to Distributed Approach. - *Hydrological Sciences Journal* 44(2):313-331.

**Lahmer, W., Becker, A., Müller-Wohlfeil, D.-I. & Pfützner, B. (1999):** A GIS-Based Approach for Regional Hydrological Modelling. - *IAHS Publication* 254:33-43.

**Larsen, S.E., Kronvang, B., Windolf, J. & Svendsen, L.M. (1999):** Trends in Diffuse Nutrient Concentrations and Loading in Denmark. Statistical Trend Analysis of Stream Monitoring Data. - *Water Science and Technology* 39(12):197-205.

**Laubel, A., Jacobsen, O.H., Kronvang, B., Grant, R. & Andersen, H.E. (1999):** Subsurface Drainage Loss of Particles and Phosphorus from Field Plot Experiments and a Tile-Drained Catchment. - *Journal of Environmental Quality* 28(2):576-584.

**Petersen, I., Winterbottom, J.H., Orton, S., Friberg, N., Hildrew, A.G., Spiers, D.C. & Gurney, W.S.C. (1999):** Emergence and Lateral Dispersal of Adult Plecoptera and Trichoptera from Broadstone Stream, U.K. - *Freshwater Biology* 42(3):401-416.

**Riis, T. & Sand-Jensen, K. (1997):** Growth Reconstruction and Photosynthesis of Aquatic Mosses. Influence of Light, Temperature and Carbon Dioxide at Depth. - *Journal of Ecology* 85:359-372.

**Sand-Jensen, K., Riis, T., Markager, S. & Vincent, W.F. (1999):** Slow Growth and Decomposition of Mosses in Arctic Lakes. - *Canadian Journal of Fisheries and Aquatic Sciences* 56:388-393.

**Stoddard, J.L., Jeffries, D.S., Lükewille, A., Clair, T.A., Dillon, P.J., Driscoll, C.T., Forsius, M., Johannesen, M., Kahl, J.S., Kellogg, J.H., Kemp, A., Mannio, J., Monteith, D.T., Murdoch, P.S., Patrick, S., Rebsdorf, A., Skjelkvåle, B.L., Stainton, M.P., Traaen, T., Dam, H. van, Webster, K.E., Wieting, J. & Wilander, A. (1999):** Regional Trends in Aquatic Recovery from Acidification in North America and Europe. - *Nature* 401(6753):575-578.

**Blicher-Mathiesen, G. & Pedersen, M.L. (1999):** Forundersøgelse af kvælstofafstrømningen til Varde Å og Ho Bugt før og efter naturgenopretning. Vandløbsøkologi. Afdeling for Vandløbsøkologi. 46 s.- Arbejdsrapport fra DMU 99.

**Bøgestrand, J. (red.) (1999):** Vandløb og kilder 1998. NOVA 2003. Afdeling for Vandløbsøkologi. 130 s.- Faglig rapport fra DMU 292. - (Findes også på: [http://www.dmu.dk/1\\_viden/2\\_Publikationer/3\\_fagrapporter/default.asp](http://www.dmu.dk/1_viden/2_Publikationer/3_fagrapporter/default.asp)).

**Friberg, N. & Carl, J.D. (1999):** Biodiversity in Benthic Ecology. Proceedings from Nordic Benthological Meeting in Silkeborg, Denmark, 13-14 November, 1997. Department of Streams and Riparian Areas. 139 pp.- NERI Technical Report 266.

**Grant, R., Paulsen, I., Andersen, H.E., Laubel, A.R., Jørgensen, J.O., Jensen, P.G. & Pedersen, M. (1999):** Landovervågningsoplande 1998. NOVA 2003. Afdeling for Vandløbsøkologi. 152 s.- Faglig rapport fra DMU 293. - (Findes også på: [http://www.dmu.dk/1\\_viden/2\\_Publikationer/3\\_fagrapporter/default.asp](http://www.dmu.dk/1_viden/2_Publikationer/3_fagrapporter/default.asp)).

**Hansen, H.O. (1999):** Restaurering af Brede Å. Vandløbsøkologi - Restoration of the River Brede - Impacts on the Invertebrate Fauna. Afdeling for Vandløbsøkologi. 28 s.- Arbejdsrapport fra DMU 102.

**Hansen, H.O. (red.) (1999):** Proceedings fra seminar om restaurering og vedligeholdelse af vandløb 12.-13. oktober 1999. Vandløbsøkologi. Afdeling for Vandløbsøkologi. 53 pp.- Arbejdsrapport fra DMU 114. - (Findes også på: [http://www.dmu.dk/1\\_viden/2\\_Publikationer/3\\_arbrapporter/default.asp](http://www.dmu.dk/1_viden/2_Publikationer/3_arbrapporter/default.asp)).

**Jensen, J.P., Søndergaard, M., Jeppesen, E., Lauridsen, T.L. & Sortkjær, L. (1999):** Søer 1998. NOVA 2003. Afdeling for Sø- og Fjordøkologi. 104 s.- Faglig rapport fra DMU 291. - (Findes også på: [http://www.dmu.dk/1\\_viden/2\\_Publikationer/3\\_fagrapporter/default.asp](http://www.dmu.dk/1_viden/2_Publikationer/3_fagrapporter/default.asp)).

**Kronvang, B., Jensen, J.P., Pedersen, M.L., Larsen, S.E., Müller-Wohlfeil, D.-I., Wiggers, L., Kronquist, H., Tornbjerg, H. & Ringsborg, O. (1999):** Oplandsanalyse af vandløbs- og søoplande 1998-2003. Vandløb og søer. NOVA 2003. Afdeling for Vandløbsøkologi og Afdeling for Sø- og Fjordøkologi. 73 s.- Teknisk anvisning fra DMU 15 (online). - [http://www.dmu.dk/1\\_om\\_dmu/2\\_tvaer-funk/3\\_fdc\\_fv/default.asp](http://www.dmu.dk/1_om_dmu/2_tvaer-funk/3_fdc_fv/default.asp)  
(Findes kun i elektronisk udgave)

**Kronvang, B., Søndergaard, M., Mogensen, B., Nyeland, B., Andersen, K.J., Schwærter, R.C. & Nielsen, P.V. (1999):** Overvågning af miljøfremmede stoffer i ferskvand. NOVA 2003. Afdeling for Vandløbsøkologi, Afdeling for Sø- og Fjordøkologi & Afdeling for Miljøkemi. 27 s.- Teknisk anvisning fra DMU 17 (online). - [http://www.dmu.dk/1\\_om\\_dmu/2\\_tvaer-funk/3\\_fdc\\_fv/default.asp](http://www.dmu.dk/1_om_dmu/2_tvaer-funk/3_fdc_fv/default.asp) (Findes kun i elektronisk udgave)

**Larsen, S.E. (1999):** Analyse af udviklingstendenser i 25 vandløb med udløb i Limfjorden. Vandløbsøkologi - Trend Analysis of 25 Streams Discharging into the Limfjorden. Afdeling for Vandløbsøkologi. 83 pp.- Arbejdsrapport fra DMU 115.

**Larsen, S.E., Friberg, N. & Rebsdorf, Aa. (eds.) (1999):** Proceedings of the 12th Task Force Meeting in Silkeborg, Denmark, October 23-25, 1996. Convention on Long-Range Transboundary Air Pollution. International Cooperative Programme on Assessment and Monitoring of Acidification of Rivers and Lakes. Department of Streams and Riparian Areas. 49 pp.- NERI Technical Report 271.

**Lauridsen, T.L., Jensen, J.P., Berg, S., Michelsen, K., Rugaard, T., Schriver, P. & Rasmussen, A.C. (1999):** Fiskeyngelundersøgelser i søer. Metoder til anvendelse i søer i det Nationale Overvågningsprogram for Vandmiljøet. NOVA 2003. Afdeling for Sø- og Fjordøkologi. 46 s.- Teknisk anvisning fra DMU 14 (online). - [http://www.dmu.dk/1\\_om\\_dmu/2\\_tvaer-funk/3\\_fdc\\_fv/default.asp](http://www.dmu.dk/1_om_dmu/2_tvaer-funk/3_fdc_fv/default.asp)  
(Findes kun i elektronisk udgave)

**Pedersen, M.L. & Svendsen, M.L. (1999):** Stoftilbageholdelse på de vandløbsnære arealer. Restaurering af Brede Å. Vandløbsøkologi - Restoration of the River Brede - Retention on the Riparian Areas. Afdeling for Vandløbsøkologi. 76 s.- Arbejdsrapport fra DMU 101.

**Skriver, J., Riis, T., Carl, J., Baattrup-Pedersen, A., Friberg, N., Ernst, M.E., Frandsen, S.B., Sode, A. & Wiberg-Larsen, P. (1999):** Biologisk overvågning i vandløb 1998-2003. Biologisk vandløbskvalitet (DVFI). Udvidet biologisk program. NOVA 2003. Afdeling for Vandløbsøkologi og Afdeling for Sø- og Fjordøkologi. 90 s.- Teknisk anvisning fra DMU 16 (online). - [http://www.dmu.dk/1\\_om\\_dmu/2\\_tvaer-funk/3\\_fdc\\_fv/default.asp](http://www.dmu.dk/1_om_dmu/2_tvaer-funk/3_fdc_fv/default.asp)  
(Findes kun i elektronisk udgave)

**Øvrige faglige artikler, rapporter og bogbidrag**

**Andersen, H.E. (1999):** Measured and Modelled Effects of Environmental Programs on Nitrate Leaching in Denmark. In: Nordic Association of Agricultural Scientists: XXI Congress, Ås, Norway, 28.6.-1.7. 1999. Nordic Association of Agricultural Scientists. - Nordisk Jordbrugsforskning 3:371-377.

**Baatrup-Pedersen, A. (1999):** Grødeskæring og vandløbenes plantesamfund. I: Hansen, H.O. (red.): Proceedings fra seminar om restaurering og vedligeholdelse af vandløb 12.-13. oktober 1999. Vandløbsøkologi. Danmarks Miljøundersøgelser. - Arbejdsrapport fra DMU 114:34-35. - (Findes også på: [http://www.dmu.dk/1\\_viden/2\\_Publikationer/3\\_arbrapporter/default.asp](http://www.dmu.dk/1_viden/2_Publikationer/3_arbrapporter/default.asp))

**Baatrup-Pedersen, A. & Riis, T. (1999):** Plant Species Composition and Abundance in Unregulated and Regulated Lowland Streams. In: Friberg, N. & Carl, J.D.: Biodiversity in Benthic Ecology. Proceedings from Nordic Benthological Meeting in Silkeborg, Denmark, 13-14 November 1997. National Environmental Research Institute. - NERI Technical Report 266:107-111.

**Baatrup-Pedersen, A., Larsen, S.E. & Riis, T. (1999):** Udvidet biologisk program. I: Bøgestrand, J. (red.): Vandløb og kilder 1998. NOVA 2003. Danmarks Miljøundersøgelser. - Faglig rapport fra DMU 292:59-76. - (Findes også på: [http://www.dmu.dk/1\\_viden/2\\_Publikationer/3\\_fagrapporter/default.asp](http://www.dmu.dk/1_viden/2_Publikationer/3_fagrapporter/default.asp))

**Baatrup-Pedersen, A., Friberg, N. & Riis, T. (1999):** Ådalenes rige planteliv. - Vand & Jord 6(2):48-50.

**Birkenmayer, A., Müller-Wohlfeil, D.-I., Demuth, S. & Kronvang, B. (1999):** The ERICA 1 : 250K Pilot Databases. In: Bundesanstalt für Gewässerkunde IHP/OHP: International Conference on Quality, Management and Availability of Data for Hydrology and Water Resources Management, Koblenz, Federal Republic of Germany, March 22-26, 1999. Koblenz: Deutsches Nationalkomitee für das IHP/OHP. Pp. 143-146.

**Blicher-Mathiesen, G. & Hasler, B. (1999):** Ujævn fordeling af husdyrgødning. - Jord og Viden 144(7):9-11.

**Bøgestrand, J. (1999):** Om overvågningsprogrammet. I: Bøgestrand, J. (red.): Vandløb og kilder 1998. NOVA 2003. Danmarks Miljøundersøgelser. - Faglig rapport fra DMU 292:9-12. - (Findes også på: [http://www.dmu.dk/1\\_viden/2\\_Publikationer/3\\_fagrapporter/default.asp](http://www.dmu.dk/1_viden/2_Publikationer/3_fagrapporter/default.asp))

**Friberg, N. (1999):** Effektovervågning. I: Hansen, H.O. (red.): Proceedings fra seminar om restaurering og vedligeholdelse af vandløb 12.-13. oktober 1999. Vandløbsøkologi. Danmarks Miljøundersøgelser. - Arbejdsrapport fra DMU 114:44-46. - (Findes også på: [http://www.dmu.dk/1\\_viden/2\\_Publikationer/3\\_arbrapporter/default.asp](http://www.dmu.dk/1_viden/2_Publikationer/3_arbrapporter/default.asp))

**Friberg, N. (1999):** Vedligeholdelsens betydning for plante- og dyresamfund. I: Hansen, H.O. (red.): Proceedings fra seminar om restaurering og vedligeholdelse af vandløb 12.-13. oktober 1999. Vandløbsøkologi. Danmarks Miljøundersøgelser. - Arbejdsrapport fra DMU 114:36-37. - (Findes også på: [http://www.dmu.dk/1\\_viden/2\\_Publikationer/3\\_arbrapporter/default.asp](http://www.dmu.dk/1_viden/2_Publikationer/3_arbrapporter/default.asp))

**Friberg, N., Græsbøll, P. & Larsen, S.E. (1999):** Fysiske forhold og tilstand i mindre vandløb. - Vand & Jord 6(3):117-120.

**Hansen, H.O. (1999):** Database over vandløbsrestaureringer. Hvad kan den bruges til? I: Hansen, H.O. (red.): Proceedings fra seminar om restaurering og vedligeholdelse af vandløb 12.-13. oktober 1999. Vandløbsøkologi. Danmarks Miljøundersøgelser. - Arbejdsrapport fra DMU 114:15-16. - (Findes også på: [http://www.dmu.dk/1\\_viden/2\\_Publikationer/3\\_arbrapporter/default.asp](http://www.dmu.dk/1_viden/2_Publikationer/3_arbrapporter/default.asp))

**Hansen, H.O. (1999):** Europæisk Center for Vandløbsrestaurering. I: Hansen, H.O. (red.): Proceedings fra seminar om restaurering og vedligeholdelse af vandløb 12.-13. oktober 1999. Vandløbsøkologi. Danmarks Miljøundersøgelser. - Arbejdsrapport fra DMU 114:12-14. - (Findes også på: [http://www.dmu.dk/1\\_viden/2\\_Publikationer/3\\_arbrapporter/default.asp](http://www.dmu.dk/1_viden/2_Publikationer/3_arbrapporter/default.asp))

**Hansen, H.O., Friberg, N. & Baatrup-Pedersen, A. (1999):** Remeandering of Three Danish Streams. Impact on the Biota. In: Friberg, N. & Carl, J.D.: Biodiversity in Benthic Ecology. Proceedings from Nordic Benthological Meeting in Silkeborg, Denmark, 13-14 November 1997. National Environmental Research Institute. - NERI Technical Report 266:83-88.

**HELCOM. With contributions from Svendsen, L.M. (1998):** The Third Baltic Sea Pollution Load Compilation - PLC3. Helsinki Commission. Baltic Marine Environment Protection Commission. 133 pp. - Baltic Sea Environment Proceedings 70.

**Iversen, H.L. & Bøgestrand, J. (1999):** Organisk stof (BOD<sub>5</sub>). I: Bøgestrand, J. (red.): Vandløb og kilder 1998. NOVA 2003. Danmarks Miljøundersøgelser. - Faglig rapport fra DMU:49. - (Findes også på: [http://www.dmu.dk/1\\_viden/2\\_Publikationer/3\\_fagrapporter/default.asp](http://www.dmu.dk/1_viden/2_Publikationer/3_fagrapporter/default.asp))

**Iversen, H.L., Kronvang, B. & Larsen, S.E. (1999):** Kvælstof. I: Bøgestrand, J. (red.): Vandløb og kilder 1998. NOVA 2003. Danmarks Miljøundersøgelser. - Faglig rapport fra DMU 292:21-32. - (Findes også på: [http://www.dmu.dk/1\\_viden/2\\_Publikationer/3\\_fagrapporter/default.asp](http://www.dmu.dk/1_viden/2_Publikationer/3_fagrapporter/default.asp))

**Iversen, H.L., Larsen, S.E. & Bøgestrand, J. (1999):** Vandkvalitet i kildebække. I: Bøgestrand, J. (red.): Vandløb og kilder 1998. NOVA 2003. Danmarks Miljøundersøgelser. - Faglig rapport fra DMU 292:19-20. - (Findes også på: [http://www.dmu.dk/1\\_viden/2\\_Publikationer/3\\_fagrapporter/default.asp](http://www.dmu.dk/1_viden/2_Publikationer/3_fagrapporter/default.asp))

**Iversen, T.M. & Friberg, N. (1999):** Biodiversity in Benthic Ecology. In: Friberg, N. & Carl, J.D.: Biodiversity in Benthic Ecology. Proceedings from Nordic Benthological Meeting in Silkeborg, Denmark, 13-14 November 1997. National Environmental Research Institute. - NERI Technical Report 266:9-13.

**Kronvang, B., Pedersen, M.L. & Fjordback, C. (1999):** Kan habitatkortlægning anvendes til effektovervågning af vandløbsrestaurering og vandløbsvedligeholdelse? I: Hansen, H.O. (red.): Proceedings fra seminar om restaurering og vedligeholdelse af vandløb 12.-13. oktober 1999. Vandløbsøkologi. Danmarks Miljøundersøgelser. - Arbejdsrapport fra DMU 114:32-33. - (Findes også på: [http://www.dmu.dk/1\\_viden/2\\_Publikationer/3\\_arbrapporter/default.asp](http://www.dmu.dk/1_viden/2_Publikationer/3_arbrapporter/default.asp))

**Laubel, A.R., Iversen, H.L., Larsen, S.E. & Bøgestrand, J. (1999):** Fosfor. I: Bøgestrand, J. (red.): Vandløb og kilder 1998. NOVA 2003. Danmarks Miljøundersøgelser. - Faglig rapport fra DMU 292:33-42. - (Findes også på: [http://www.dmu.dk/1\\_viden/2\\_Publikationer/3\\_fagrapporter/default.asp](http://www.dmu.dk/1_viden/2_Publikationer/3_fagrapporter/default.asp))

**Müller-Wohlfeil, D.-I., Kronvang, B. & Ovesen, N.B. (1999):** Estimation of the Regional Annual Runoff in Denmark. Abstract. In: European Geophysical Society: 24th General Assembly of the European Geophysical Society, Hydrology, Oceans and Atmosphere, The Hague, The Netherlands, April 19-23, 1999. European Geophysical Society. - Geophysical Research Abstracts 1(2):355.

**Müller-Wohlfeil, D.-I., Kronvang, B., Mielby, S. & Wedland, F. (1999):** Needs and Constraints for the Calculation of the Regional Annual Runoff in Denmark. In: Bundesanstalt für Gewässerkunde IHP/OHP: International Conference on Quality, Management and Availability of Data for Hydrology and Water Resources Management, Koblenz, Federal Republic of Germany, March 22-26, 1999. Koblenz: Deutsches Nationalkomitee für das IHP/OHP. pp. 43-46.

**Odgaard, B., Amsinck, S., Anderson, J., Brodersen, K., Bennike, O., Jensen, J.P., Jensen, K., Jeppesen, E. & Rasmussen, P. (1999):** Esrum Søes palæolimnologi gennem de seneste århundreder. Rapport til Frederiksborg Amt. 38 s.\*

**Olsen, H.-M. & Friberg, N. (1999):** Biological Stream Assessment in Denmark. The Importance of Physical Factors. In: Friberg, N. & Carl, J.D.: Biodiversity in Benthic Ecology. Proceedings from Nordic Benthological Meeting in Silkeborg, Denmark, 13-14 November 1997. National Environmental Research Institute. - NERI Technical Report 266:89-95.

**Olsen, H.M. & Friberg, N. (1999):** De fysiske forhold og dansk vandløbsfaunaindeks. - Vand & Jord 6(3):113-116.

**Pedersen, M.L. & Kronvang, B. (1999):** Oplandsanalyse og -model. I: Bøgestrand, J. (red.): Vandløb og kilder 1998. NOVA 2003. Danmarks Miljøundersøgelser. - Faglig rapport fra DMU 292:43-48. - (Findes også på: [http://www.dmu.dk/1\\_viden/2\\_Publikationer/3\\_fagrapporter/default.asp](http://www.dmu.dk/1_viden/2_Publikationer/3_fagrapporter/default.asp))

**Pedersen, M.L., Dieperink, C., Hansen, K.R. & Kronvang, B. (1999):** Langtidseffekter af gydegrusudlægning. I: Hansen, H.O. (red.): Proceedings fra seminar om restaurering og vedligeholdelse af vandløb 12.-13. oktober 1999. Vandløbsøkologi. Danmarks Miljøundersøgelser. - Arbejdsrapport fra DMU 114:17-18. - (Findes også på: [http://www.dmu.dk/1\\_viden/2\\_Publikationer/3\\_arbrapporter/default.asp](http://www.dmu.dk/1_viden/2_Publikationer/3_arbrapporter/default.asp))

**Petersen, I., Winterbottom, J.H., Orton, S. & Hildrew, A.G. (1999):** Does the Colonization Cycle Exist? In: Friberg, N. & Carl, J.D.: Biodiversity in Benthic Ecology. Proceedings from Nordic Benthological Meeting in Silkeborg, Denmark, 13-14 November 1997. National Environmental Research Institute. - NERI Technical Report 266:123-126.

**Simmelsgaard, S.E., Grant, R., Olsen, P., Larsen, S.E. & Knudsen, L. (red.) (1999):** Udvikling i kvælstofudvaskningen fra landbruget belyst ved målinger. Landbrugets Rådgivningscenter. Landskontoret for Planteavl. 59 s.

*Skjelkvåle, B.L., Mannio, J., Wilander, A., Johansson, K., Jensen, J.P., Moiseenko, T., Fjeld, E., Andersen, T., Vuorenmaa, J. & Røyseth, O. (1999):* Heavy Metal Survey in Nordic Lakes. Harmonised Data for Regional Assessment of Critical Limits. Norwegian Institute for Water Research. 71 pp. - NIVA Report SNO 4039-99.

*Skriver, J. (1999):* Biologisk vandløbskvalitet. I: Bøgestrand, J. (red.): Vandløb og kilder 1998. NOVA 2003. Danmarks Miljøundersøgelser. - Faglig rapport fra DMU:53-57. - (Findes også på: [http://www.dmu.dk/1\\_viden/2\\_Publikationer/3\\_fagrapporter/default.asp](http://www.dmu.dk/1_viden/2_Publikationer/3_fagrapporter/default.asp))

*Skriver, J. (1999):* Danish Stream Fauna Index (DSFI) as an Indicator of Rare and Threatened Benthic Macroinvertebrates. In: Friberg, N. & Carl, J.D.: Biodiversity in Benthic Ecology. Proceedings from Nordic Benthological Meeting in Silkeborg, Denmark, 13-14 November 1997. National Environmental Research Institute. - NERI Technical Report 266:97-105.

*Skriver, J. (1999):* Vedligeholdelse af vandløb - hvordan foretages den? I: Hansen, H.O. (red.): Proceedings fra seminar om restaurering og vedligeholdelse af vandløb 12.-13. oktober 1999. Vandløbsøkologi. Danmarks Miljøundersøgelser. - Arbejdsrapport fra DMU 114:28-31. - (Findes også på: [http://www.dmu.dk/1\\_viden/2\\_Publikationer/3\\_arbrapporter/default.asp](http://www.dmu.dk/1_viden/2_Publikationer/3_arbrapporter/default.asp))

*Svendsen, L.M. (1998):* Nutrient Concentrations in Monitored Rivers. In: HELCOM: The Third Baltic Sea Pollution Load Compilation - PLC3. Helsinki Commission. Baltic Marine Environment Protection Commission. - Baltic Sea Environment Proceedings 70:63-65.

*Svendsen, L.M. (1998):* Source Apportionment. In: HELCOM: The Third Baltic Sea Pollution Load Compilation - PLC3. Helsinki Commission. Baltic Marine Environment Protection Commission. - Baltic Sea Environment Proceedings 70:71-84.

*Svendsen, L.M. & Ovesen, N.B. (1999):* Klima og afstrømning. I: Bøgestrand, J. (red.): Vandløb og kilder 1998. NOVA 2003. Danmarks Miljøundersøgelser. - Faglig rapport fra DMU 292:13-18. - (Findes også på: [http://www.dmu.dk/1\\_viden/2\\_Publikationer/3\\_fagrapporter/default.asp](http://www.dmu.dk/1_viden/2_Publikationer/3_fagrapporter/default.asp))

*Svendsen, L.M., Kronvang, B. & Larsen, S.E. (1999):* Vand- og stoftilførsler med ferskvand til marine kystafsnit. I: Bøgestrand, J. (red.): Vandløb og kilder 1998. NOVA 2003. Danmarks Miljøundersøgelser. - Faglig rapport fra DMU 292:77-94. - (Findes også på: [http://www.dmu.dk/1\\_viden/2\\_Publikationer/3\\_fagrapporter/default.asp](http://www.dmu.dk/1_viden/2_Publikationer/3_fagrapporter/default.asp))

*Søndergaard, M., Jensen, J.P., Jeppesen, E. & Agerbo, E. (1999):* Undersøgelserprogrammer for søer. Miljøstyrelsen. 75 s. - Miljøprojekt 446.

*Thyssen, N. (ed.). With contributions from Bøgestrand, J. & Kristensen, P. (1999):* Nutrients in European Ecosystems. European Environment Agency. 155 pp. - Environmental Assessment Report 4.

*Wiberg-Larsen, P., Brodersen, K., Birkholm, S., Grøn, P. & Skriver, J. (1999):* Vårfluer - biodiversitet i danske vandløb. - Vand & Jord 6(2):51-54.

*Windolf, J., Grant, R. & Svendsen, L.M. (1998):* The Danish Monitoring Programme. In: Measuring Runoff and Nutrient Losses from Agricultural Land in Nordic Countries. A Guideline for Good Measurement Practices. Nordic Council of Ministers. - TemaNord 1998:575: 61-66.

#### **Populærfaglig formidling m.v.**

*Blicher-Mathiesen, G. (1999):* Det tager tid at påvirke vandmiljøet. Landmanden er en vigtig brik som naturforvalter. - Agrologisk 2:23.

*Blicher-Mathiesen, G. (1999):* Vandmiljøplan II og vådområder. - Ferskvandsfiskeribladet 97(2):44-48.

*Jeppesen, E., Jensen, K., Jensen, J.P. & Skovgaard, H. (1999):* Udviklingen i antallet af fredfisk i Skanderborg Sø i de seneste 150 år. - Ferskvandsfiskeribladet 97(8):183-188.

*Sand-Jensen, K. & Riis, T. (1999):* Vandløbene i de gode gamle dage. - Urt 23(2):46-53.

*Søndergaard, M., Jeppesen, E. & Jensen, J.P. (1999):* Danske søer og deres restaurering. Afdeling for Sø- og Fjordøkologi. 34 s.- TEMA-rapport fra DMU 24.

**Søndergaard, M., Jeppesen, E. & Jensen, J.P. (1999):** Fisk og sørestauring. - Ferskvandsfiskeribladet 97(10):222-227.

**Søndergaard, M., Jeppesen, E. & Jensen, J.P. (1999):** Restauring af søer. - Stads- og Havneingeniøren 1:27-30.

#### **Indlæg ved kongresser, symposier m.v.**

**Andersen, H.E.:** Measured and Modelled Effects of Environmental Programs on Nitrate Leaching in Denmark. NJFs XXI. Kongress, Ås, Norway, 28.6.-1.7. 1999.

**Baatrup-Pedersen, A.:** Grødeskæring og vandløbenes plantesamfund. Seminar om restauring og vedligeholdelse af vandløb. Det Europæiske Center for Vandløbsrestauring og Danmarks Miljøundersøgelser, Silkeborg, 12.-13. oktober 1999.

**Beklioglu, M., Landkildehus, F., Jeppesen, E., Søndergaard, M., Ince, Ö. & Burks, R.:** Effects of Contrasting Densities of Macrophytes and O<sup>+</sup> Perch (*Perca fluviatilis*) on the Distribution of Plant-Associated Microcrustaceans. 8th International Conference on the Conservation and Management of Lakes, Lake '99 Conference, Copenhagen, Denmark, May 17-21, 1999.

**Birkenmayer, A., Müller-Wohlfeil, D.-I., Demuth, S. & Kronvang, B.:** The ERICA 1 : 250K Pilot Databases. International Conference on Quality, Management and Availability of Data for Hydrology and Water Resources Management. Deutsches Nationalkomitee für das IHP/OHP, Koblenz., Germany, March 22-26, 1999.

**Birkenmayer, A., Müller-Wohlfeil, D.-I., Demuth, S. & Kronvang, B.:** The European Rivers and Catchments Project (ERICA). International Workshop on GIS-Based Hydrological Mapping in Central Europe, Koblenz, Germany, October 12-14, 1999.

**Burks, R., Jeppesen, E. & Lodge, D.M.:** Responses of Pelagic Macrozooplankton to Littoral Habitat in the Presence of Fish and/or Fish Odor in Experimental Mesocosms. North American Benthological Society Meeting, Duluth, Minnesota, USA, May 25-28, 1999.

**Forsman, Å., Björklund, C., Grimvall, A. Hoffmann, M., Kunkel, R. & Kronvang, B.:** Simple Mechanistic Models of Regional Losses of Nitrogen from Soil to Water. 3rd Open Science Meeting ELOISE European Land-Ocean Interaction Studies, Noordwijkerhout, The Netherlands, December 1-4, 1999.

**Friberg, N.:** Effektovervågning. Seminar om restauring og vedligeholdelse af vandløb. Det Europæiske Center for Vandløbsrestauring og Danmarks Miljøundersøgelser, Silkeborg, 12.-13. oktober 1999.

**Friberg, N.:** Vedligeholdelsens betydning for plante- og dyresamfund. Seminar om restauring og vedligeholdelse af vandløb. Det Europæiske Center for Vandløbsrestauring og Danmarks Miljøundersøgelser, Silkeborg, 12.-13. oktober 1999.

**Friberg, N., Baatrup-Pedersen, A. & Hoffmann, C.C.:** Interaktioner mellem vandløb og vandløbsnære arealer. Poster præsenteret ved Dansk Miljøforskning 1999, H.C. Ørsted Institutet, København, 19.-20. august 1999.

**Friberg, N., Baatrup-Pedersen, A. & Larsen, S.E.:** Plant/Macroinvertebrate Associations in Relation to Macrophyte Composition and Structural Diversity. Poster presented at Symposium for European Freshwater Sciences - SEFS, University of Antwerp (RUCA), Belgium, August 25-28, 1999.

**Grimvall, A., Wendland, F. & Kronvang, B.:** Regional Analysis of Subsurface Retention of Nitrogen (RANR). 3rd Open Science Meeting ELOISE European Land-Ocean Interaction Studies, Noordwijkerhout, The Netherlands, December 1-4, 1999.

**Hansen, H.O.:** Database over vandløbsrestauringer. Hvad kan den bruges til? Seminar om restauring og vedligeholdelse af vandløb. Det Europæiske Center for Vandløbsrestauring og Danmarks Miljøundersøgelser, Silkeborg, 12.-13. oktober 1999.

**Hansen, H.O.:** Europæisk Center for Vandløbsrestauring. Seminar om restauring og vedligeholdelse af vandløb. Det Europæiske Center for Vandløbsrestauring og Danmarks Miljøundersøgelser, Silkeborg, 12.-13. oktober 1999.

**Iversen, T.M.:** Dansk vandløbsforskning. State of the art og perspektiver for fremtiden. Dansk Miljøforskning 1999, H.C. Ørsted Institutet, København, 19.-20. august 1999.

**Jensen, J.P., Søndergaard, M., Jeppesen, E. & Lauridsen, T.L.:** Vandkvaliteten i danske søer. Den nuværende tilstand og udvikling. Poster præsenteret ved Dansk Miljøforskning 1999, H.C. Ørsted Institutet, København, 19.-20. august 1999.

**Jensen, J.P., Søndergaard, M., Jeppesen, E. Lauridsen, T.L.:** Water quality of Danish Lakes. Monitoring, Current State and Development. Poster presented at 8th International Conference on the Conservation and Management of Lakes, Lake '99 Conference, Copenhagen, Denmark, May 17-21, 1999.

**Jeppesen, E. & Søndergaard, M.:** Examples of Lake Restoration in Denmark. 8th International Conference on the Conservation and Management of Lakes, Lake '99 Conference. Post-Conference Scientific Excursion, Copenhagen, Denmark, May 17-21, 1999.

**Jeppesen, E., Jensen, J.P., Lauridsen, T.L., Faafeng, B., Hessen, D., Christoffersen, K., Landkildehus, F., Mitchell, S. & Søndergaard, M.:** The Impact of Fish on Cladoceran Community Structure in Lakes. The Role of Nutrient State, Lake Depth and Season. Vth International Symposium on Cladocera, Ploen, Germany, September 14-18, 1999.

**Jeppesen, E., Søndergaard, M., Lauridsen, T.L., Jensen, J.P., Kronvang, B. & Svendsen, L.M.:** Lake and Catchment Management in Denmark. Invited speech at 8th International Conference on the Conservation and Management of Lakes, Lake '99 Conference, Copenhagen, Denmark, May 17-21, 1999.

**Jeppesen, E., Søndergaard, M., Jensen, J.P., Landkildehus, F. & Amsinck, S.:** Søers reaktion på reduceret næringsstofftilførsel. Dansk Miljøforskning 1999, H.C. Ørsted Institutet, København, 19.-20. august 1999.

**Jeppesen, E., Søndergaard, M., Jensen, J.P., Landkildehus, F. & Amsinck, S.:** The Trophic Structure and Dynamics of Shallow Brackish Lakes. Invited speech at the EU-SWALE Meeting, Lammi, Finland, October 14-17, 1999.

**Kronvang, B., Friberg, N., Baattrup-Pedersen, A., Hansen, H.O., Pedersen, M.L. & Iversen, H.L.:** Vandløbsrestaurering og vandløbsvedligeholdelse. Miljøpåvirkninger og effekter. Poster præsenteret ved Dansk Miljøforskning 1999, H.C. Ørsted Institutet, København, 19.-20. august 1999.

**Kronvang, B., Pedersen, M.L. & Fjordbak, C.:** Kan habitatkortlægning anvendes til effektovervågning af vandløbsrestaurering og vandløbsvedligeholdelse? Seminar om restaurering og vedligeholdelse af vandløb. Det Europæiske Center for Vandløbsrestaurering og Danmarks Miljøundersøgelser, Silkeborg, 12.-13. oktober 1999.

**Kronvang, B., Pedersen, M.L., Jørgensen, O., Andersen, H.E. & Müller-Wohlfeil, D.-I.:** Quantification and Modelling of Subsurface Nitrogen Removal in Small Danish Agricultural Catchments. Poster presented at 3rd Open Science Meeting ELOISE European Land-Ocean Interaction Studies, Noordwijkerhout, The Netherlands, December 1-4, 1999.

**Kronvang, B., Windolf, J., Schwaerter, R.C. & Mogensen, B.B.:** Pesticides in Danish Stream Sediment. 8th International Symposium on the Interactions between Sediment and Water. International Association for sediment Water Science - IASWS, Peking University, Beijing, China, September 13-17, 1999.

**Laubel, A., Middelboe, A.L., Svendsen, L.M. & Sand-Jensen, K.:** Resuspension Experiments in a Small Lowland Stream. 8th International Symposium on the Interactions between Sediment and Water. International Association for sediment Water Science - IASWS, Peking University, Beijing, China, September 13-17, 1999.

**Lauridsen, T.L., Møller, P.H. & Pedersen, L.E.:** Restaurering af en næringsrig dansk sø ved hjælp af opfiskning og udplantning af undervandsplanter. Poster præsenteret ved Dansk Miljøforskning 1999, H.C. Ørsted Institutet, København, 19.-20. august 1999.

**Lauridsen, T.L., Møller, P.H. & Pedersen, L.E.:** Restoration of a Eutrophic Danish Lake by Fish Removal and Introduction of Submerged Macrophytes. Poster presented at 8th International Conference on the Conservation and Management of Lakes, Lake '99 Conference, Copenhagen, Denmark, May 17-21, 1999.

**Müller-Wohlfeil, D.-I., Kronvang, B., Mielby, S. & Wedland, F.:** Needs and Constraints for the Calculation of the Regional Annual Runoff in Denmark. International Conference on Quality, Management and Availability of Data for Hydrology and Water Resources Management. Deutsches Nationalkomitee für das IHP/OHP, Koblenz., Federal Republic of Germany, March 22-26, 1999.

**Nielsen, K., Christensen, P.B. & Fossing, H.:** Faldende fosforniveauer i havet. Fosfor og vandmiljø arrangeret af Ingeniørforeningen i Danmark, IDA Miljø, Odense, 14. april 1999.

**Pedersen, M.L., Dieperink, C., Hansen, K.R. & Kronvang, B.:** Langtidseffekter af gydegrusudlægning. Seminar om restaurering og vedligeholdelse af vandløb. Det Europæiske Center for Vandløbsrestaurering og Danmarks Miljøundersøgelser, Silkeborg, 12.-13. oktober 1999.

**Pedersen, M.L., Kronvang, B., Larsen, S.E., Müller-Wohlfeil, D.-I. & Windolf, J.:** Catchment-Scale Analysis of Hydrology and Nutrient Pathways. European Geophysical Society, The Hague, The Netherlands, April 19-23, 1999.

**Riis, T. & Sand-Jensen, K.:** Historical Changes of Species Composition and Richness Accompanying Disturbance and Eutrophication of Lowlands Streams over 100 Years. Symposium for European Freshwater Sciences - SEFS, University of Antwerp (RUCA), Belgium, August 25-28, 1999.

**Skriver, J.:** Vedligeholdelse af vandløb - hvordan foretages den? Seminar om restaurering og vedligeholdelse af vandløb. Det Europæiske Center for Vandløbsrestaurering og Danmarks Miljøundersøgelser, Silkeborg, 12.-13. oktober 1999.

**Svendsen, L.M., Kronvang, B. & Grant, R.:** Estimation of Nutrient Inputs to Danish River Systems. Nitrogen and Phosphorus Discharges/Losses into Surface Waters. A Workshop of the German Federal Environmental Agency, Abacus Tierpark Hotel, Berlin, Germany, November 29-30, 1999.

**Søndergaard, M.:** Naturkvalitet i de marine og akvatiske miljøer. Præsentation af resultater - Søer. Naturkvalitet - kriterier og metodeudvikling Åbent seminar arrangeret af Danmarks Miljøundersøgelser, Danmarks og Grønlands Geologiske Undersøgelser & Forskningscenter for Skov og Landskab, Ferskvandscentret, Silkeborg, 10. november 1999.

**Søndergaard, M., Jeppesen, E. & Jensen, J.P.:** Lake Restoration in Denmark. Poster presented at 8th International Conference on the Conservation and Management of Lakes, Lake '99 Conference, Copenhagen, Denmark, May 17-21, 1999.

**Søndergaard, M., Jeppesen, E. & Jensen, J.P.:** Sørestaurering i Danmark. Poster præsenteret ved Dansk Miljøforskning 1999, H.C. Ørsted Institutet, København, 19.-20. august 1999.

**Vadeboncoeur, Y.:** Whole-Lake Fertilization Effects on Production and Consumption of Benthic Versus Pelagic Algae. Invited speech at Department of Biology, McGill University, Montreal, Quebec, Canada, March 11, 1999.

**Vadeboncoeur, Y., Lodge, D.M. & Carpenter, S.R.:** Whole-Lake Fertilization Effects on Benthic Versus Pelagic Primary Production. Invited speech at ASLO 1999 Aquatic Sciences Meeting, Santa Fe, New Mexico, USA, February 1-5, 1999.

**Wendland, F., Kunkel, R., Steidl, J., Dannowski, R., Kronvang, B. & Müller-Wohlfeil, D.-I.:** Model-Based Analysis of Long-Term Hazards to Groundwater Occurrences and Surface Waters in the Central European Lowlands due to Non-Point Nitrate Inputs. 3rd Open Science Meeting ELOISE European Land-Ocean Interaction Studies, Noordwijkerhout, The Netherlands, December 1-4, 1999.

## **307 Marin Miljø og Natur**

### **Internationale videnskabelige publikationer**

**Andersson, Å., Madsen, J., Mooij, J. & Reitan, O. (1999):** Canada Goose *Branta canadensis* : Fennoscandia / Continental Europe. In: Madsen, J., Cracknell, G. & Fox, A.D. (eds.): Goose Populations of the Western Palearctic. A Review of Status and Distribution. National Environmental Research Institute, Denmark and Wetlands International, Wageningen, The Netherlands. - Wetlands International Publication 48:236-245.

**Boyd, H., Fox, A.D., Kristiansen, J.N., Stroud, D.A., Walsh, A.J. & Warren, S.M. (1998):** Changes in Abdominal Profiles of Greenland White-Fronted Geese in Iceland in Spring. - Wildfowl 49:57-71.

**Bregnballe, T. (1999):** Seasonal and Geographical Variation in Net-Entrapment of Danish Great Cormorants *Phalacrocorax carbo sinensis*. - Dansk Ornitologisk Forenings Tidsskrift 93(4):247-254.



Caldow, R.W.G., Goss-Custard, J.D., Stillman, R.A., Durell, S.E.A. le V. dit, Swinfen, R. & Bregnballe, T. (1999): Individual Variation in the Competitive Ability of Interference-Prone Foragers: the Relative Importance of Foraging Efficiency and Susceptibility to Interference. - *Journal of Animal Ecology* 68:869-878.

Christensen, T.K. (1999): Effects of Cohort and Individual Variation in Duckling Body Condition on Survival and Recruitment in the Common Eider *Somateria mollissima*. - *Journal of Avian Biology* 30:302-308.

Clausen, P., Madsen, J., Percival, S.M., Anderson, G.Q.A., Koffijberg, K., Mehlum, F. & Vangeluwe, D. (1999): Light-Bellied Brent Goose *Branta bernicla hrota* : Svalbard. In: Madsen, J., Cracknell, G. & Fox, A.D. (eds.): *Goose Populations of the Western Palearctic. A Review of Status and Distribution*. National Environmental Research Institute, Denmark and Wetlands International, Wageningen, The Netherlands. - *Wetlands International Publication* 48:312-327.

Cracknell, G., Munteanu, D., Ardamatskaya, T. & Dijkzen, L. (1999): Greylag Goose *Anser anser* : Black Sea. In: Madsen, J., Cracknell, G. & Fox, A.D. (eds.): *Goose Populations of the Western Palearctic. A Review of Status and Distribution*. National Environmental Research Institute, Denmark and Wetlands International, Wageningen, The Netherlands. - *Wetlands International Publication* 48:214-219.

Delany, S., Reyes, C., Hubert, E., Pihl, S., Rees, E., Haanstra, L. & van Strien, A. (eds.) (1999): *Results from the International Waterbird Census in the Western Palearctic and Southwest Asia 1995 and 1996*. Wageningen, The Netherlands. 178 pp. - *Wetlands International Publication* 54.

Desholm, M., Wegeberg, A.M. & Mouritsen, K.N. (1999): Vigilance and Flocking Behaviour of Tactilely Foraging Dunlins *Calidris alpina*. - *Avocetta* 23(2):42-47.

Ebbinge, B.S., Berrevoets, C., Clausen, P., Ganter, B., Günther, K., Koffijberg, K., Mahéo, R., Rowcliffe, M., St. Joseph, A.K.M., Südbeck, P. & Syroechkovsky Jr., E.E. (1999): Dark-Bellied Brent Goose *Branta bernicla bernicla*. In: Madsen, J., Cracknell, G. & Fox, A.D. (eds.): *Goose Populations of the Western Palearctic. A Review of Status and Distribution*. National Environmental Research Institute, Denmark and Wetlands International, Wageningen, The Netherlands. - *Wetlands International Publication* 48:284-297.

Ferdelman, T.G., Fossing, H., Neumann, K. & Schulz, H.D. (1999): Sulfate Reduction in Surface Sediments of the Southeast Atlantic Continental Margin between 15°38'S and 27°57'S (Angola and Namibia). - *Limnology & Oceanography* 44(3):650-661.

Fox, A.D. & Kahlert, J. (1999): Adjustments to Nitrogen Metabolism during Wing Moulting in Greylag Geese, *Anser anser*. - *Functional Ecology* 13:661-669.

Fox, A.D. & Madsen, J. (1999): Introduction. In: Madsen, J., Cracknell, G. & Fox, A.D. (eds.): *Goose Populations of the Western Palearctic. A Review of Status and Distribution*. National Environmental Research Institute, Denmark and Wetlands International, Wageningen, The Netherlands. - *Wetlands International Publication* 48:8-18.

**Fox, A.D., Hilmarsson, J.O., Einarsson, O., Boyd, H., Kristiansen, J.N., Stroud, D.A., Walsh, A.J., Warren, S.M., Mitchell, C., Francis, I.S. & Nygaard, T. (1999):** Phenology and Distribution of Greenland White-Fronted Geese *Anser albifrons flavirostris* Staging in Iceland. - *Wildfowl* 50:29-45.

**Fox, A.D., Kahlert, J., Walsh, A.J., Stroud, D.A., Mitchell, C., Kristiansen, J.N. & Hansen, E.B. (1998):** Patterns of Body Mass Change During Moulting in Three Different Goose Populations. - *Wildfowl* 49:45-56.

**Fox, A.D., Norriss, D.W., Wilson, H.J., Merne, O.J., Stroud, D.A., Sigfusson, A. & Glahder, C. (1999):** Greenland White-Fronted Goose *Anser albifrons flavirostris*. In: Madsen, J., Cracknell, G. & Fox, A.D. (eds.): *Goose Populations of the Western Palearctic. A Review of Status and Distribution*. National Environmental Research Institute, Denmark and Wetlands International, Wageningen, The Netherlands. - *Wetlands International Publication* 48:130-142.

**Ganter, B., Larsson, K., Syroechkovsky, E.V., Litvin, K.E., Leito, A. & Madsen, J. (1999):** Barnacle Goose *Branta leucopsis* : Russia / Baltic. In: Madsen, J., Cracknell, G. & Fox, A.D. (eds.): *Goose Populations of the Western Palearctic. A Review of Status and Distribution*. National Environmental Research Institute, Denmark and Wetlands International, Wageningen, The Netherlands. - *Wetlands International Publication* 48:270-283.

**Glud, R.N., Gundersen, J.K. & Holby, O. (1999):** Benthic *in situ* Respiration in the Upwelling Area off Central Chile. - *Marine Ecology Progress Series* 186:9-18.

**Green, A.J., Fox, A.D., Hughes, B. & Hilton, G.M. (1999):** Time-Activity Budgets and Site Selection of White-Headed Ducks *Oxyura leucocephala* at Burdur Lake, Turkey, in Late Winter. - *Bird Study* 46:62-73.

**Hansen, B.W., Nielsen, T.G. & Levinsen, H. (1999):** Plankton Community Structure and Carbon Cycling on the Western Coast of Greenland during the Stratified Summer Situation. III. Mesozooplankton. - *Aquatic Microbial Ecology* 16:233-249.

**Hansen, F., Forbes, V.E. & Forbes, T.L. (1999):** Using Elasticity Analysis of Demographic Models to Link Toxicant Effects on Individuals to the Population Level: an Example. - *Functional Ecology* 13:157-162.

**Hansen, F.T., Forbes, V.E. & Forbes, T.L. (1999):** Effects of 4-n-nonylphenol on Life-History Traits and Population Dynamics of a Polychaete. - *Ecological Applications* 9(2):482-495.

**Hansen, J.W. & Lomstein, B.Aa. (1999):** Leakage of Ammonium, Urea, and Dissolved Organic Nitrogen and Carbon from Eelgrass *Zostera marina* Roots and Rhizomes during Sediment Handling. - *Aquatic Microbial Ecology* 16:303-307.

**Hansen, R., Forbes, T.L. & Westermann, P. (1999):** Importance of Bioturbation and Feeding by the Polychaete *Capitella* sp. I in the Degradation of di(2-ethylhexyl)phthalate (DEHP). - *Marine Ecology Progress Series* 182:187-199.

**Kahlert, J., Coupe, M. & Cooke, F. (1998):** Winter Segregation and Timing of Pair Formation in Red-Breasted Merganser *Mergus serrator*. - Wildfowl 49:161-172.

**Krause-Jensen, D., Christensen, P.B. & Rysgaard, S. (1999):** Oxygen and Nutrient Dynamics within Mats of the Filamentous Macroalgae *Chaetomorpha linum*. - Estuaries 22(1):31-38.

**Kristiansen, J.N. (1998):** Egg Predation in Reedbed Nesting Greylag Geese *Anser anser* in Vejlerne, Denmark. - Ardea 86(2):137-145.

**Kristiansen, J.N., Fox, A.D. & Jarrett, N.S. (1999):** Resightings and Recoveries in Canada Geese *Branta canadensis* Ringed in West Greenland. - Wildfowl 50:199-205.

**Kristiansen, J.N., Walsh, A.J., Fox, A.D., Boyd, H. & Stroud, D.A. (1999):** Variation in the Belly Barrings of the Greenland White-Fronted Goose *Anser albifrons flavirostris*. - Wildfowl 50:21-29.

**Levinsen, H., Nielsen, T.G. & Hansen, B.W. (1999):** Plankton Community Structure and Carbon Cycling on the Western Coast of Greenland during the Stratified Summer Situation. II. Heterotrophic Dinoflagellates and Ciliates. - Aquatic Microbial Ecology 16:217-232.

**Lundsgaard, C., Olesen, M., Reigstad, M. & Olli, K. (1999):** Sources of Settling Material: Aggregation and Zooplankton Mediated Fluxes in the Gulf of Riga. - Journal of Marine Systems 23(1-3):197-210.

**Madsen, J., Cracknell, G. & Fox, A.D. (eds.) (1999):** Goose Populations of the Western Palearctic. A Review of Status and Distribution. National Environmental Research Institute, Denmark and Wetlands International, Wageningen, The Netherlands. 344 pp. - Wetlands International Publication 48.

**Madsen, J., Kuijken, E., Meire, P., Cottaar, F., Haitjema, T., Nicolaisen, P.I., Bønes, T. & Mehlum, F. (1999):** Pink-Footed Goose *Anser brachyrhynchus* : Svalbard. In: Madsen, J., Cracknell, G. & Fox, A.D. (eds.): Goose Populations of the Western Palearctic. A Review of Status and Distribution. National Environmental Research Institute, Denmark and Wetlands International, Wageningen, The Netherlands. - Wetlands International Publication 48:82-93.

**Markager, S., Vincent, W.F. & Tang, E.P.Y. (1999):** Carbon Fixation by Phytoplankton in High Arctic Lakes: Implications of Low Temperature for Photosynthesis. - Limnology and Oceanography 44(3):597-607.

**Mitchell, C. & Fox, A.D. (1999):** Feral Greylag Geese *Anser anser* : United Kingdom. In: Madsen, J., Cracknell, G. & Fox, A.D. (eds.): Goose Populations of the Western Palearctic. A Review of Status and Distribution. National Environmental Research Institute, Denmark and Wetlands International, Wageningen, The Netherlands. - Wetlands International Publication 48:178-180.

**Mitchell, C., Fox, A.D., Boyd, H., Sigfusson, A. & Boertmann, D. (1999):** Pink-Footed Goose *Anser brachyrhynchus* : Iceland / Greenland. In: Madsen, J., Cracknell, G. & Fox, A.D. (eds.): Goose Populations of the Western Palearctic. A

Review of Status and Distribution. National Environmental Research Institute, Denmark and Wetlands International, Wageningen, The Netherlands. - Wetlands International Publication 48:68-81.

**Møhlenberg, F.** (1999): Effect of Meteorology and Nutrient Load on Oxygen Depletion in a Danish Micro-Tidal Estuary. - *Aquatic Ecology* 33:55-64.

**Nausch, G., Nehring, D. & Aertebjerg, G.** (1999): Anthropogenic Nutrient Load of the Baltic Sea. In: Schiewer, U. & Paerl, H.W. (eds.): Sustainable Development in Coastal Regions - A Comparison between North Atlantic Coast and Baltic Sea. Proceedings of a WVU-Symposium, Rostock, Germany, April 15-20, 1996. Urban & Fischer. - *Limnologica* 29(3):233-241.

**Nielsen, T.G. & Hansen, B.W.** (1999): Plankton Community Structure and Carbon Cycling on the Western Coast of Greenland during the Stratified Summer Situation. I. Hydrography, Phytoplankton and Bacterioplankton. - *Aquatic Microbial Ecology* 16:205-216.

**Nilsson, L., Follestad, A., Koffijberg, K., Kuijken, E., Madsen, J., Mooij, J., Mouronval, J.B., Persson, H., Schricke, V. & Voslamber, B.** (1999): Greylag Goose *Anser anser*: Northwest Europe. In: Madsen, J., Cracknell, G. & Fox, A.D. (eds.): Goose Populations of the Western Palearctic. A Review of Status and Distribution. National Environmental Research Institute, Denmark and Wetlands International, Wageningen, The Netherlands. - Wetlands International Publication 48:182-201.

**Nilsson, L., van den Bergh, L. & Madsen, J.** (1999): Taiga Bean Goose *Anser fabalis fabalis*. In: Madsen, J., Cracknell, G. & Fox, A.D. (eds.): Goose Populations of the Western Palearctic. A Review of Status and Distribution. National Environmental Research Institute, Denmark and Wetlands International, Wageningen, The Netherlands. - Wetlands International Publication 48:20-36.

**Olesen, M., Lundsgaard, C. & Andrushaitis, A.** (1999): Influence of Nutrients and Mixing on the Primary Production and Community Respiration in the Gulf of Riga. - *Journal of Marine Systems* 23(1-3):127-143.

**Petersen, J.K., Mayer, S. & Knudsen, M.Å.** (1999): Beat Frequency of Cilia in the Branchial Basket of the Ascidian *Ciona intestinalis* in Relation to Temperature and Algal Cell Concentration. - *Marine Biology* 133:185-192.

**Rysgaard, S., Thastum, P., Dalsgaard, T., Christensen, P.B. & Sloth, N.P.** (1999): Effects of Salinity on NH<sub>4</sub><sup>+</sup> Adsorption Capacity, Nitrification, and Denitrification in Danish Estuarine Sediments. - *Estuaries* 22(1):21-30.

**Schjørring, S., Gregersen, J. & Bregnballe, T.** (1999): Prospecting Enhances Breeding Success of First-Time Breeders in the Great Cormorant, *Phalacrocorax carbo sinensis*. - *Animal Behaviour* 57:647-654.

**Schwarz, A.-M. & Markager, S.** (1999): Light Absorption and Photosynthesis of a Benthic Moss Community: Importance of Spectral Quality of Light and Implications of Changing Water Column Light Attenuation. - *Freshwater Biology* 42(4):609-623.

**Simonsen, V. & Kittiwattanawong, K. (1998):** Marine Molluscs and Molecular Markers. Protein Electrophoresis. - Phuket Marine Biological Center Special Publication 18(2):223-236.

**Therkildsen, O. R. & Madsen, J. (1999):** Goose Grazing Selectivity along a Depletion Gradient. - *Ecography* 22:516-520.

**Thingstad, T.F., Havskum, H., Kaas, H., Nielsen, T.G., Riemann, B. Lefevre, D. & Williams, P.J. le B. (1999):** Bacteria-Protist Interactions and Organic Matter Degradation under P-Limited Conditions: Analysis of an Enclosure Experiment using a Simple Model. - *Limnology and Oceanography* 44(1):62-79.

**Tiedemann, R. & Noer, H. (1998):** Geographic Partitioning of Mitochondrial DNA Patterns in European Eider *Somateria mollissima*. - *Hereditas* 128:159-166.

**Tuomi, P., Lundsgaard, C., Ekeboom, J., Olli, K. & Künnis, K. (1999):** The Production and Potential Loss Mechanisms of Bacterial Biomass in the Southern Gulf of Riga. - *Journal of Marine Systems* 23(1-3):185-196.

#### **DMU rapporter**

**Clausager, I. (1999):** Vingeindsamling fra jagtsæsonen 1998/99 i Danmark - Wing Survey from the 1998/99 Hunting Season in Denmark. Afdeling for Kystzoneøkologi. 48 s.- Faglig rapport fra DMU 282.

**Clausen, P. & Larsen, J.K. (1999):** Vurdering af effekten af en vindmøllepark ved Overgaard på forekomsten af fugle i EF-fuglebeskyttelsesområde nr. 15. Afdeling for Kystzoneøkologi. 32 s.- Faglig rapport fra DMU 280.

**Clausen, P., Bøgebjerg, E., Fox, A.D., Jørgensen, H.E., Hounisen, J.P., Kjær, P.A. & Petersen, I.K. (1999):** Jagt- og forstyrrelsesfrie kerneområder for vandfugle 1994-97. Danmark. Naturovervågning. Afdeling for Kystzoneøkologi. 72 s.- Arbejdsrapport fra DMU 103.

**Eskildsen, J. (1999):** Skarver 1999. Danmark. Naturovervågning. Afdeling for Kystzoneøkologi. 47 s.- Arbejdsrapport fra DMU 112.

**Fossing, H. & Christensen, P.B. (1999):** Produktion og forekomst af svovlbrinte i Mariager Fjord 1998. Afdeling for Sø- og Fjordøkologi. 17 s.- Faglig rapport fra DMU 270.

**Guillemette, M., Larsen, J.K. & Clausager, I. (1999):** Assessing the Impact of the Tunø Knob Wind Park on Sea Ducks : the Influence of Food Resources. Department of Coastal Zone Ecology. 20 pp.- NERI Technical Report 263.

**Heide-Jørgensen, M.P. & Teilmann, J. (1999):** Sæler 1998. Østersøen, Kattegat og Limfjorden. Naturovervågning. Afdeling for Kystzoneøkologi. 28 s.- Arbejdsrapport fra DMU 105.

*Jacobsen, E.M. (1999):* Punkttællinger af ynglefugle i eng, by og skov 1998. Danmark. Naturovervågning. Afdeling for Kystzoneøkologi. 61 s.- Arbejdsrapport fra DMU 106.

*Jensen, J.S. (1999):* Bundvegetation 1998. Tipperne. Naturovervågning. Afdeling for Kystzoneøkologi. 25 s.- Arbejdsrapport fra DMU 108.

*Laursen, K. (red) (1999):* Overvågning af fugle, sæler og planter 1998-99, med resultater fra feltstationerne. Afdeling for Kystzoneøkologi. 83 s.- Faglig rapport fra DMU 304.

*Laursen, K. (red.) (1999):* Overvågning af fugle 1997-98, resultater fra feltstationerne. Afdeling for Kystzoneøkologi. 92 s.- Faglig rapport fra DMU 267.

*Madsen, J., Madsen, A.B. & Petersen, I.K. (1999):* Indpasning af rekreative aktiviteter i forhold til fugleliv og odder i Skjern Å Naturprojekt - en biologisk udredning. Afdeling for Kystzoneøkologi og Afdeling for Landskabsøkologi. 39 s.- Faglig rapport fra DMU 275.

*Mark, S. & Strandberg, M. (1999):* Modeller til bestemmelse af Naturkvalitet på udvalgte Naturtyper ved anvendelse af Neurale Netværk. Afdeling for Kystzoneøkologi og Afdeling for Terrestrisk Økologi. 71 s.- Faglig rapport fra DMU 274.

*Markager, S., Nielsen, T.G., Carstensen, J., Conley, D., Dahl, K., Hansen, J., Henriksen, P., Josefson, A., Larsen, M.M., Pedersen, B., Rasmussen, B., Strand, J., Ærtebjerg, G., Fossing, H., Lauersen, J.S., Hertel, O., Skov, H., Svendsen, L.M., Cleemann, M. & Pritzl, G. (1999):* Marine områder. Status over miljøtilstanden i 1998. NOVA 2003. Afdeling for Havmiljø og Mikrobiologi, Afdeling for Sø- og Fjordøkologi, Afdeling for Atmosfærisk Miljø, Afdeling for Vandløbsøkologi og Afdeling for Miljøkemi. 164 s.- Faglig rapport fra DMU 290.

*Noer, H., Hartmann, P., Christensen, T.K., Kanstrup, N. & Hansen, E.B. (1999):* Anskydning af vildt. Status for undersøgelser 1999. Afdeling for Kystzoneøkologi og Afdeling for Landskabsøkologi. 62 s.- Faglig rapport fra DMU 284.

*Rasmussen, L.M. (1999):* Analyse af udvikling for ynglende og rastende fugle 1979-99. Tøndermarsken. Naturovervågning. Afdeling for Kystzoneøkologi. 131 s.- Arbejdsrapport fra DMU 113.

*Thorup, O. & Rasmussen, L.M. (1999):* Ynglefugleoptælling 1998. Vadehavet. Naturovervågning. Afdeling for Kystzoneøkologi. 42 s.- Arbejdsrapport fra DMU 104.

*Wind, P. (1999):* Overvågning af orkidéer 1997. Påvirkningsfaktorer. Danmark. Naturovervågning. Afdeling for Kystzoneøkologi. 31 s.- Arbejdsrapport fra DMU 109.

*Wind, P., Stoltze, M., Fog, K., Guldager, D., Christiansen, L.B. & Rybacki, M. (1999):* Overvågning af rødlistede arter 1998. Danmark. Naturovervågning. Afdeling for Kystzoneøkologi. 125 s.- Arbejdsrapport fra DMU 110.

*Ærtebjerg, G. (1999):* Monitoring Cruise with r/v Gunnar Thorson in the Sound, Kattegat, Skagerrak, North Sea, Belt Sea and Arkona Sea. Cruise no. 189, 8-18 February 1999. Department of Marine Ecology and Microbiology. 12 pp.- Monitoring Cruise Report.

*Ærtebjerg, G. (1999):* Monitoring Cruise with r/v Gunnar Thorson in the Sound, Kattegat, Skagerrak, North Sea, Belt Sea and Arkona Sea. Cruise no. 191, 9-19 August 1999. Department of Marine Ecology and Microbiology. 12 pp.- Monitoring Cruise Report.

*Ærtebjerg, G. (1999):* Monitoring Cruise with r/v Gunnar Thorson in the Sound, Kattegat, Belt Sea and Arkona Sea. Cruise no. 192, 13-16 September 1999. Department of Marine Ecology and Microbiology. 9 pp.- Monitoring Cruise Report.

#### **Øvrige faglige artikler, rapporter og bogbidrag**

*Bäck, S., Ekeboom, J., Johansson, C., Kangas, P., Kautsky, H., Krause-Jensen, D., Mäkinen, A. & Nielsen, K. (1998):* Operative Methods for Mapping and Monitoring Phytobenthic Zone Biodiversity in the Baltic Sea. II Report of the PHYTOBIOS Project. Copenhagen: Nordic Councils of Ministers. 72 pp. - TemaNord 1998:568.

*Christensen, T.K. & Noer, H. (1999):* Monitoring of Breeding Eiders at Saltholm, 1998. Report request. Commissioned by Øresundskonsortiet. Department of Coastal Zone Ecology. 42 pp.\*

*Cottaar, F., Koffijberg, K., Berrevoets, C. & Clausen, P. (1999):* Light-Bellied Brent Geese *Branta bernicla hrota* in The Netherlands in 1995/96 and 1996/97 - Witbuikrotganzen *Branta bernicla hrota* in Nederland in de winter van 1995/96 en 1996/97. - Limosa 72(3):89-98.

*Dalsgaard, T. (ed.) (1999):* NICE - Nitrogen Cycling in Estuaries. Final Scientific Report. National Environmental Research Institute. 177 pp. + 4 supplements.

*De Jong, F., Bakker, J., van Berkel, C., Dahl, K., Dankers, N., Gätje, C., Marencic, H. & Potel, P. (eds.) (1999):* 1999 Wadden Sea Quality Status Report. Common Wadden Sea Secretariat, Trilateral Monitoring and Assessment Group & Quality Status Report Group. 259 pp. - Wadden Sea Ecosystem 9.

*De Jong, P.D., Dahl, K., Neudekker, T., Knust, R. & van Berkel, C.J.M. (1999):* Selected Fish Species and Brown Shrimp. In: De Jong, F., Bakker, J., van Berkel, C., Dahl, K., Dankers, N., Gätje, C., Marencic, H. & Potel, P. (eds.): 1999 Wadden Sea Quality Status Report. Common Wadden Sea Secretariat, Trilateral Monitoring and Assessment Group & Quality Status Report Group. - Wadden Sea Ecosystem 9:148-152.

*Forbes, T.L. (1999):* Understanding Small-Scale Processes Controlling the Bioavailability of Organic Contaminants to Deposit-Feeding Benthos. In: Gray, J.S., Ambrose Jr, W. & Szaniawska, A. (eds.): Biogeochemical Cycling and Sediment Ecology. Kluwer. - NATO Science Partnership Sub-Series. 2: Environmental Security 59:125-136.

*Fox, A.D. & Pihl, S. (eds.) (1999):* Wetlands International Seaduck Specialist Group Bulletin 8:37 pp.

*Geernaert, L.L.S., Pedersen, B. & Larsen, S.E. (1999): Atmospheric Load of Ammonia to Coastal Waters. In: Borrell, P.M. & Borrell, P. (eds.): Proceedings of EUROTRAC Symposium '98, Garmisch-Partenkirchen, Germany, 23rd-27th March 1998. Transport and Chemical Transformation in the Troposphere. Volume 2. WIT Press. pp. 327-330.*

*Heiskanen, A.-S., Lundsgaard, C., Reigstadt, M., Olli, K. & Floderus, S. (eds.) (1999): Sedimentation and Recycling in Aquatic Ecosystems. The Impact of Pelagic Processes and Planktonic Food Web Structure. Helsinki: Finnish Environment Institute. 119 pp. - The Finnish Environment 263.*

*Hollebeek, P., Pedersen, J. & Krause-Jensen, D. (1999): Myndighedernes kontrol- og overvågningsprogram for Øresundsforbindelsens kyst-til-kyst anlæg. Ålegræssets udbredelse omkring Lernacken. Glostrup: Sound Environmental Monitoring and Control Group - SEMAC JV. 16 s.*

*Horstmann, U., Lu, D., Göbel, J., Davidof, A., Dahl, E. & Kaas, H. (1998): Tracing a Toxic Algal Bloom of *Chattonella* around Southern Norway and West of Juetland, using MOS and SeaWiFS Satellite Data. In: Institute of Space Sensor Technology (ed.): 2nd International Workshop on MOS-IRS and Ocean Colour. Berlin: Wissenschaft und Technik Verlag. pp. 303-311.*

*Josefson, A.B. & Pedersen, J. (1999): Myndighedernes kontrol- og overvågningsprogram for Øresundsforbindelsens kyst-til-kyst anlæg. Bundfauna. Anden fauna end blåmuslinger. Tilstandsrapport 1998. Glostrup: Sound Environmental Monitoring and Control Group - SEMAC JV. 71 s.*

*Josefson, A.B. & Pedersen, J. (1999): The Authorities' Control and Monitoring Programme for the Fixed Link across Øresund. Benthic Fauna. Benthic Fauna other than Common Mussel. Status Report 1998. Glostrup: Sound Environmental Monitoring and Control Group - SEMAC JV. 70 pp.*

*Kahlert, J., Clausen, P. & Nilsson, L. (1999): Monitoring of Moulting Mute Swans around Saltholm, 1998. Report request. Commissioned by Øresundskonsortiet. Department of Coastal Zone Ecology. 40 pp.\**

*Kahlert, J. & Nilsson, L. (1999): Monitoring of Moulting Greylag Geese on Saltholm, 1998. Report request. Commissioned by Øresundskonsortiet. Department of Coastal Zone Ecology. 48 pp.\**

*Krause-Jensen, D. (1999): Benthic Vegetation *Zostera marina*, *Ruppia spp.*, and *Laminaria saccharina*. The Authorities' Control and Monitoring Programme for the Fixed Link Across Øresund. Summary Report 1996-1998. Glostrup: Sound Environmental Monitoring and Control Group – SEMAC JV. 7 pp.*

*Krause-Jensen, D. & Christensen, P.B. (1999): Myndighedernes kontrol- og overvågningsprogram for Øresundsforbindelsens kyst-til-kyst anlæg. Interkalibrering af havgræs (*Ruppia spp.*) undersøgelser 1998. Glostrup: Sound Environmental Monitoring and Control Group - SEMAC JV. 9 s.*

*Krause-Jensen, D., Middelboe, A.L., Christensen, P.B., Rasmussen, M.B. & Hollebeek, P. (1999): Benthic Vegetation *Zostera marina*, *Ruppia spp.*, and *Laminaria saccharina*. The Authorities' Control and Monitoring Programme for the Fixed Link Across Øresund. Status Report 1998. Glostrup: Sound Environmental Monitoring and Control Group – SEMAC JV. 124 pp.*



**Krause-Jensen, D., Middelboe, A.L., Christensen, P.B., Rasmussen, M.B. & Hollebeek, P. (1999):** Myndighedernes kontrol- og overvågningsprogram for Øresundsforbindelsens kyst-til-kyst anlæg. Bentisk vegetation - ålegræs, havgræs og sukkertang. Tilstandsrapport 1998. Glostrup: Sound Environmental Monitoring and Control Group - SEMAC JV. 128 s.

**Mark, S. (1999):** Kan orkidéer anvendes som indikatorer for naturens kvalitet. I: Wind, P. (red): Danske orkidéer. Symposium om oplevelse, overvågning og forvaltning. 1. november 1997. Danmarks Miljøundersøgelser & Skov- og Naturstyrelsen. s. 45-53.

**Middelboe, A.L. & Krause-Jensen, D. (1999):** Myndighedernes kontrol- og overvågningsprogram for Øresundsforbindelsens kyst-til-kyst anlæg. Bentisk vegetation. Ålegræs i den danske del af Øresund 1998 - sammenligning mellem Københavns amts/kommunes og SEMACs undersøgelser. Glostrup: Sound Environmental Monitoring and Control Group - SEMAC JV. 21 s.

**Nielsen, K. (1999):** The Danish Marine Monitoring Programme. In: Earll, R.C. (ed.): Monitoring and Reporting on Marine Special Areas of Conservation. Proceedings from the UK Marine SACs Project European Workshop October 27th to 29th 1998. Peterborough: Joint Nature Conservation Committee. - UK Marine SACs Project, pp.49-50.

**Nielsen, K. & Krause-Jensen, D. (1998):** Methods for Sandy and Soft Seabeds. In: Bäck, S., Ekeboom, J., Johansson, C., Kangas, P., Kautsky, H., Krause-Jensen, D., Mäkinen, A. & Nielsen, K: Operative Methods for Mapping and Monitoring Phytobenthic Zone Biodiversity in the Baltic Sea. II Report of the PHYTOBIOS Project. Copenhagen: Nordic Councils of Ministers. - TemaNord 1998:568:39-45.

**Nielsen, K. & Krause-Jensen, D. (1998):** Supporting Parameters. In: Bäck, S., Ekeboom, J., Johansson, C., Kangas, P., Kautsky, H., Krause-Jensen, D., Mäkinen, A. & Nielsen, K: Operative Methods for Mapping and Monitoring Phytobenthic Zone Biodiversity in the Baltic Sea. II Report of the PHYTOBIOS Project. Copenhagen: Nordic Councils of Ministers. - TemaNord 1998:568:39.

**Pedersen, B. & Larsen, M.M. (1999):** Myndighedernes kontrol- og overvågningsprogram for Øresundsforbindelsens kyst-til-kyst anlæg. Vandkvalitet. Tilstandsrapport 1998. Glostrup: Sound Environmental Monitoring and Control Group - SEMAC JV. 56 s.

**Pedersen, B. & Larsen, M.M. (1999):** The Authorities' Control and Monitoring Programme for the Fixed Link across Øresund. Water Quality. Status Report 1998. Glostrup: Sound Environmental Monitoring and Control Group - SEMAC JV. 54 pp.

**Petersen, J.K. (1999):** Overvågning af fauna og vegetation på hårde bunde. I: Støttrup, J.G. (red.): Kortlægning af stenrev, stenfiskeri og fiskeri på hårbund samt metoder til videnskabelige undersøgelser af rev og hårbund. Danmarks Fiskeriundersøgelser. - DFU-rapport 63-99:39-47.

**Petersen, J.K., Larsen, M.M. & Loo, L.-O. (1999):** Myndighedernes kontrol- og overvågningsprogram for Øresundsforbindelsens kyst-til-kyst anlæg. Bundfauna. Blåmuslinger. Tilstandsrapport 1998. 1. udgave Glostrup: Sound Environmental Monitoring and Control Group - SEMAC JV. 80 s.

**Petersen, J.K., Larsen, M.M. & Loo, L.-O. (1999):** Myndighedernes kontrol- og overvågningsprogram for Øresundsforbindelsens kyst-til-kyst anlæg. Bundfauna. Blåmuslinger. Tilstandsrapport 1998. 2. udgave Glostrup: Sound Environmental Monitoring and Control Group - SEMAC JV. 78 s.

**Petersen, J.K., Larsen, M.M. & Loo, L.-O. (1999):** The Authorities' Control and Monitoring Programme for the Fixed Link across Øresund. Benthic Fauna. Common Mussels. Status Report 1998. Glostrup: Sound Environmental Monitoring and Control Group - SEMAC JV. 76 pp.

**Pettifor, R.A., Fox, A.D. & Rowcliffe, J.M. (1999):** Greenland White-Fronted Goose (*Anser albifrons flavirostris*) -The Collation and Statistical Analysis of Data and Population Viability Analyses. Scottish Natural Heritage. 55 pp. - Scottish Natural Heritage. Research, Survey and Monitoring Report 140.

**Sand-Jensen, K. & Middelboe, A.L. (1999):** Østersøen - ung og fattig. Østersøens omskiftelige udvikling - Naturens Verden 4:2-13.

**Stjernholm, M. & Krause-Jensen, D. (1999):** A Remote Sensing System for Coastal Zone Management. Final Report to European Commission.. National Environmental Research Institute. 15 pp. - Project No.: LIFE95/A11/DK110/MLTRG.

**Veronesi, E., Bregnballe, T. & Gregersen, J. (1999):** Evoluzione di due grandi colonie di cormorano. Uno studio comparativo compiuto su due zone umide europee fornisce indicazioni inedite sui meccanismi che regolano la struttura e la dinamica di popolazione di questa specie. - Laguna:10-17.

**Wind, P. (1999):** 10 års overvågning af orkidéer. I: Wind, P. (red): Danske orkidéer. Symposium om oplevelse, overvågning og forvaltning. 1. november 1997. Danmarks Miljøundersøgelser & Skov- og Naturstyrelsen. s. 9-18.

**Wind, P. (red) (1999):** Danske orkidéer. Symposium om oplevelse, overvågning og forvaltning 1. november 1997. Danmarks Miljøundersøgelser & Skov- og Naturstyrelsen. 57 s.

#### **Populærfaglig formidling m.v.**

**Clausager, I. (1999):** Duer. I: Kørvel, H. (red): Gyldendals Jagthåndbog. Gyldendalske Boghandel. s. 289-291.

**Clausager, I. (1999):** Hønsefugle m.m.. I: Kørvel, H. (red): Gyldendals Jagthåndbog. Gyldendalske Boghandel. s. 298-303.

**Clausager, I. (1999):** Måger. I: Kørvel, H. (red): Gyldendals Jagthåndbog. Gyldendalske Boghandel. s. 296-297.

**Clausager, I. (1999):** Vadefugle. I: Kørvel, H. (red): Gyldendals Jagthåndbog. Gyldendalske Boghandel. s. 292-295.

**Clausager, I. (1999):** Ænder. I: Kørvel, H. (red): Gyldendals Jagthåndbog. Gyldendalske Boghandel. s. 274-288.

**Clausen, P. (1999):** Vildtreservater. I: Kørvel, H. (red): Gyldendals Jagthåndbog. Gyldendalske Boghandel. s. 327-331.

**Clausager, I. (1999):** Flere vinger til Kalø. - Jæger. Jagt, vildt & natur 8(9):s. 9.

**Clausager, I. (1999):** Vind på vingerne. - Vildtinformation 99:18-19.

**Clausen, P. (1999):** Radiomærkning af krikænder. - Vildtinformation 99:15.

**Clausen, P. & Laubek, B. (1999):** Med Agerø's gæs i Nordgrønland. Knortegæssene "rød AS" og "rød BL" lod sig - som satellitterne havde afsløret - gensé på Kilen i det nordøstlige Grønland. - Fugle og Natur 19(1):6-8.

**Dahl, K. (1999):** Stenrevne - havbundens biologiske skatkammer. - Miljø- og vandpleje 23:2-5.

**Foverskov, S., Strand, J., Jacobsen, J.A., Riemann, B., Pritzl, G., Nielsen, P.Ø. & Aagaard, A. (1999):** Bundmaling til skibe - et miljøproblem. Afdeling for Havmiljø og Mikrobiologi & Afdeling for Miljøkemi. 48 s.- TEMA-rapport fra DMU 30/1999.

**Frederiksen, M. & Bregnballe, T. (1999):** Danske skarvers bestandsforhold belyst ud fra studier på Vorsø. - Foreningen Horsens-Ren Fjord. Nyhedsbrev 9:207-209.

**Gregersen, J. (1999):** Observatørens arbejde på Vorsø gennem 20 år. - Foreningen Horsens-Ren Fjord. Nyhedsbrev 9:203-206.

**Kaas, H., Moestrup, Ø., Larsen, J. & Henriksen, P. (1999):** Giftige alger og algeopblomstringer. Afdeling for Havmiljø og Mikrobiologi. 64 s.- TEMA-rapport fra DMU 27/1999.

**Kahlert, J. (1999):** Grågæs, edderfugle og knopsvaner på Saltholm. I: Bentz, P.G. & Meyer, O.E. (eds.): Øresund – naturligtvis. s. 33-38.

**Laursen, K. (1999):** Forsøg med lempelse af jagtforbud i reservater. - Vildtinformation 99:11.

**Madsen, J. (1999):** Gæs. I: Kørvel, H. (red): Gyldendals Jagthåndbog. Gyldendalske Boghandel. s. 269-273.

**Madsen, J. (1999):** Jagt og bestande. I: Kørvel, H. (red): Gyldendals Jagthåndbog. Gyldendalske Boghandel. s. 322-326.

**Nielsen, T.G. & Hansen, P.J. (1999):** Dyreplankton i danske farvande. Afdeling for Havmiljø og Mikrobiologi. 64 s.-TEMA-rapport fra DMU 28/1999.

**Noer, H. (1999):** Anskydninger kan begrænses. - Vildtinformation 99:12-13.

**Noer, H. (1999):** Vildtforskning. I: Kørvel, H. (red): Gyldendals Jagthåndbog. Gyldendalske Boghandel. s. 319-321.

**Petersen, J.K. (1999):** Kan naturen begrænse næringstilførslen i danske fjorde? - Ny Viden fra Miljøstyrelsen 4:79-82.

**Petersen, J.K. (1999):** Kunstige rev - formål og anvendelse. - Miljø- og vandpleje 23:12-14.

**Indlæg ved kongresser, symposier m.v.**

**Bregballe, T.:** A Population Model for European Great Cormorants : Preliminary Results and Applications to Management. 23th Annual Meeting. Waterbird Society, Grado, Italy, 8-12 November 1999.

**Bregballe, T.:** A Mid-Way Evaluation of the Danish Reserves Network. English Nature Wildfowling Seminar, Peterborough, England, 13 October 1999.

**Bregballe, T.:** Next Step in the Danish Experimental Reserves Work - Temporal Regulations of Hunting Activities. English Nature Wildfowling Seminar, Peterborough, England, 13. October 1999.

**Christensen, P.B, Krause-Jensen, D. & Laursen, J.S.:** Eelgrass in Danish Coastal Waters during a Century. Poster and Folder presented at the 15th Biennial International Conference Estuarine Research Federation, New Orleans, Louisiana, USA, September 25-30, 1999.

**Clausager, I.:** Impact Assessment Studies of Offshore Wind Parks and Seabirds with Special Reference to the Tunø Knob Wind Park. Invited speech at Workshop "Technische Eingriffe in marine Lebensräume", Bundesamt für Naturschutz, Vilm, Deutschland, 27-29 Oktober 1999.

**Clausager, I.:** Vindkraftproduktion og konsekvenser for det biologiske mangfold. Erfaringer fra Danmark. Inviteret indlæg ved seminar arrangeret af Norges vassdrags- og energidirektorat og Direktoratet for naturforvaltning, Oslo, Norge, 9. november 1999.

**Clausen, P. & Frederiksen, M.:** Survival Rates of Light-Bellied Brent Goose Assessed by Capture-Recapture Analysis. Euring. International Conference. Bird Ringing 100 Years. Results and Perspectives of Bird Ringing, Helgoland, Germany, 29 September - 03 October 1999.

**Clausen, P. & Madsen J.:** Jagtfrie kerneområder - på vej mod et sammenhængende reservatnetværk for vandfugle i Danmark. resultater 1994-98. Dansk Miljøforskning 1999, H.C.Ørsted Institutet, København, 19.-20. august 1999.

**Conley, D.:** Declines in Si Supply to the Coastal Ocean and the Consequences for Marine Food Webs. Workshop on Modelling the Si Cycle, Southampton Oceanography Centre, Southampton, United Kingdom, 22-24 March 1999.

**Conley, D.:** Declines in Si Supply to the Coastal Ocean and the Consequences for Marine Food Webs. Meereskundliches Kolloquium, Institut für Meereskunde, Kiel, Germany, 11 June 1999.

**Dahl, K., Hansen, J., Helmig, S., Nielsen, R. & Larsen, H.S.:** Nature Quality on Stone Reefs in Danish Waters. 2nd Nordic Marine Sciences Meeting, Nordsøcentret, Hirtshals, 2-4 March 1999.

**Dahl, L.:** The Danish Stone Reefs. Macrofauna of *Laminaria* Holdfasts. Poster presented at the 2nd Nordic Marine Sciences Meeting, Nordsøcentret, Hirtshals, 2-4 March 1999.

**Dalsgaard, T., Nielsen, L.P., Brotas, V., Viaroli, P., Underwood, G.J.C., Nedwell, D., Sundbäck, K., Miles, A., Bartoli, M., Welsh, D., Dong, L., Cooper, M., Thornton, D.C.O., Ottosen, L.D.M., Cabrita, M.T., Serôdio, J., Castaldelli, G., Göransson, E. & Risgaard-Petersen, N.:** Denitrification in Shallow Coastal European Waters. A Synthesis of the NICE Project. 3rd Open Science Meeting ELOISE European Land-Ocean Interaction Studies, Noordwijkerhout, The Netherlands, December 1-4, 1999.

**Drent, R.H., Clausen, P., Green, M. & Ebbinge, B.S.:** The Riddle of the White Sea : an Interpretation of Brent Spring Migration. Euring. International Conference. Bird Ringing 100 Years. Results and Perspectives of Bird Ringing, Helgoland, Germany, 29 September - 03 October 1999.

**Forbes, T.L.:** Size Dependence of Carbon Turnover and its Relation to Growth in Individual *Capitella* species I. 28th Benthic Ecology Meeting, Louisiana State University, Baton Rouge, USA, 25-28 March 1999.

**Fossing, H., Berg, P., Christensen, P.B. & Nielsen, K.:** Næringsalte, iltsvind og svovlbrienteudslip i danske fjorde. Behov for beskrivende flux-modeller. Dansk Miljøforskning 1999, H.C. Ørsted Institutet, København, 19.-20. august 1999.

**Fox, A.D. & Noer, H.:** Seaduck Research in Europe : A Review from Danish Waters. The Waterbird Society's 23rd Annual Meeting. Waterbird Conservation and Management, Grado, Italy, 8-12 November 1999.

**Frederiksen, M.:** Danske skarvers bestandsforhold belyst udfra studier på Vorsø. Foreningen Horsens-Ren Fjord, Horsens Rådhus, Horsens, 4. februar 1999.

**Frederiksen, M.:** Recent Advances in the Use of Ringing Data in Population Research. Nordisk Fuglestationskonference, Ålbæk, 20. marts 1999.

**Frederiksen, M., Fox, A.D., Madsen, J. & Colhoun, K.:** Estimating the Total Number of Birds Using a Staging Site - Bellied Brent Geese as Recorded by Satellite Telemetry. Euring. International Conference. Bird Ringing 100 Years. Results and Perspectives of Bird Ringing, Helgoland, Germany, 29 September - 03 October 1999.

**Green, M., Clausen, P., Drent, R.H., Ebbinge, B.S. & Alerstam, T.:** Spring Migration of Dark-Bellied Brent Geese as Recorded by Satellite Telemetry. Euring. International Conference. Bird Ringing 100 Years. Results and Perspectives of Bird Ringing, Helgoland, Germany, 29 September - 03 October 1999.

**Hansen, A.S.:** Test af forskellige hypoteser om ernæring hos filtratorer ved hjælp af en model for *Mytilus edulis*. Dansk Miljøforskning 1999, H.C. Ørsted Institutet, København, 19.-20. august 1999.

**Hansen, A.S. & Herman, P.M.:** Are Mussels Optimal Foragers? A Model Exploration. ASLO 1999 Aquatic Sciences Meeting. Limnology and Oceanography: Navigating into the Next Century, Santa Fe, New Mexico, USA, 1-5 February 1999.

**Henriksen, P., Riemann, B. & Sørensen, H.M.:** Quantifying Phytoplankton from Pigment Algorithms - Evidence from Cultures and Natural Populations. ASLO 1999 Aquatic Sciences Meeting. Limnology and Oceanography: Navigating into the Next Century, Santa Fe, New Mexico, USA, 1-5 February 1999.

**Jensen, H.R., Vested, H.J. & Rasmussen, B.:** Operational Hydrodynamical Model of the Danish Waters. Danish National Program for Monitoring the Water Environment. Second International Conference on EuroGOOS, Auditorium del Massimo, Rome, Italy, 10-13 March 1999.

**Krause-Jensen, D.:** Grænser for ålegræssets biomasse og skudtæthed. Workshop i Vandplanter fysiologi og økologi, Salten Skov Laboratoriet, 28-29 januar 1999.

**Krause-Jensen, D.:** Lys og fotosyntese i akvatiske plantesamfund. Inviteret indlæg ved Nordisk PhD kursus Mikrobiel stofomsætning i sedimenter, Aarhus Universitets Marinbiologiske Feltstation, Rønbjerg, 15. juni 1999.

**Krause-Jensen, D.:** Overvågning af bundvegetation i Danmark. Seminariedag om Metodutveckling för övervakning av grunda vegetationsklädda mjukbottnar, Kalmarsundslaboratoriet, Kalmar, Sverige, 17 februari 1999.

**Krause-Jensen, D., Middelboe, A. L., Sand-Jensen, K. & Christensen, P.B.:** Upper Bounds for Eelgrass Grown Along Depth Gradients in Danish Coastal Waters. 15th Biennial International Conference Estuarine Research Federation, New Orleans, Louisiana, USA, September 25-30, 1999.

**Levinsen, H., Nielsen, T.G. & Hansen, B.W.:** Marine Pelagic Heterotrophic Dinoflagellates and Ciliates during the Arctic Winter: Community Structure, Overwintering Strategy and Spring Transition. 3rd European Congress of Protistology - 9th European Conference on Ciliate Biology, Elsinore, 26-30 July 1999.

**Madsen, J.:** Choice of Spring Migration Strategies by Pink-Footed Geese *Anser brachyrhynchus* and Consequences for Spring Fattening and Fecundity. Invited speech at Euring. International Conference. Bird Ringing 100 Years. Results and Perspectives of Bird Ringing, Helgoland, Germany, 29 September - 03 October 1999.

**Madsen, J.:** Halsmærkning af kortnæbbet gås : fra individuel variation til bestandsforvaltning. Dansk Ringmærkning 1899-1999. Mini-symposium om fugleringmærkning i Danmark, Aarhus Universitet, 20. november 1999.

**Madsen, J.:** The Influence of Shooting on Waterfowl Populations. Invited speech at IV Italian Congress on Wildlife Biology, Bologna, Italy, 28-30 October 1999.

**Madsen, J. & Noer, H.:** Crippling Resulting from Waterfowl Hunting in Denmark: The Present Situation and Future Perspectives. Invited speech at Finnish Game Days, Pori, Finland, 9-10 February 1999.

**Madsen, J., Bregnballe, T., Jensen, C., Schou, J.S., Hansen, J.F. & Laursen, K.:** Lovindgreb og lokale brugere. Aktører i Landskabet, SMP2-Centeret Foranderlige Landskaber, Esbjerg, 1.-2. marts 1999.

**Madsen, J., Clausen, P. & Jepsen, P.U.:** Establishing a Reserve Network for Migratory Waterbirds in Danish SPAs. Invited speech at EU Conference on Bird Conservation - 20 Years with the EU Bird Directive, Helsingør, 18-19 November 1999.

**Markager, S.:** DOC as Regulating Factor for Area Primary Production in Coastal Areas. ASLO 1999 Aquatic Sciences Meeting. Limnology and Oceanography: Navigating into the Next Century, Santa Fe, New Mexico, USA, 1-5 February 1999.

**Markager, S.:** Primary Production in Pelagic System. Regional Workshop on Ecology and Taxonomy of Tropical Microplankton, Phuket Marine Biological Center, Phuket, Thailand, November 1999.

**Middelboe, A. L., Sand-Jensen, K. & Krause-Jensen, D.:** Patterns of Macroalgal Distribution in Danish Estuaries. 15th Biennial International Conference Estuarine Research Federation, New Orleans, Louisiana, USA, September 25-30, 1999.

**Middelboe, A.L.:** Udbredelsesmønstre af makroalger. Workshop i Vandplanterers fysiologi og økologi, Salten Skov Laboratoriet, 28-29 januar 1999.

**Møhlenberg, F. & Petersen, J.K.:** Physical Forcing and Biogeochemical Cycles in Shallow Coastal Estuaries. 3rd Open Science Meeting ELOISE European Land-Ocean Interaction Studies, Noordwijkerhout, The Netherlands, December 1-4, 1999.

**Nielsen, K.:** Marine miljøproblemer - herunder også Limfjordens. Limfjordens tilstand og udvikling biologisk set arrangeret af Foreningen af Danske Biologer, Marinebiologisk Station, Rønbjerg, 22.-24. september 1999.

**Nielsen, K.:** Miljøforskningens betydning for fiskeriforskningen. Fiskeriforskning - en udfordring til universiteterne. Statens Jordbrugs- og Veterinærvidenskabelige Forskningsråd - SJVF, Ferskvandscentret, Silkeborg, 4. oktober 1999.

**Nielsen, T.G., Satapoomin, S., Hansen, B. & Sabatini, M.:** The Role of *Oithona* spp. in Arctic, Temperate and Tropical Ecosystems. ASLO 1999 Aquatic Sciences Meeting. Limnology and Oceanography: Navigating into the Next Century, Santa Fe, New Mexico, USA, 1-5 February 1999.

**Noer, H.:** Fra ringmærkning til forvaltning : Eksempler på anvendelsen af ringmærkningsresultater. Dansk Ringmærkning 1899-1999. Mini-symposium om fugleringmærkning i Danmark, Aarhus Universitet, 20. november 1999.

**Pedersen, B.:** Sampling and Sample Handling Intercomparisons. HELCOM QA Workshop, Helsinki, Finland, 21-23 October 1999.

**Pedersen, B., Allan, A., Bignert, A., Häggberg, L. & Åslund, K.:** Sample Handling of Biological Tissue. Quality into the Next Century. A QUASIMEME/QUASH Conference, Egmond aan Zee, The Netherlands, 6-9 October 1999.

**Percival, S.M., Clausen, P., Anderson, G.Q.A. & Denny, M.J.H.:** Site Fidelity and Population Structure of Light-Bellied Brent Geese in Winter and Spring. Euring. International Conference. Bird Ringing 100 Years. Results and Perspectives of Bird Ringing, Helgoland, Germany, 29 September - 03 October 1999.

**Pihl, S.:** Seaduck Monitoring in Europe : Numbers and Distribution Base on Data in Wetlands Internationals Seaduck Database. The Waterbird Society's 23rd Annual Meeting. Waterbird Conservation and Management, Grado, Italy, 8-12 November 1999.

**Rasmussen, B., Vang, T., Angantyr, L.A. & Rasmussen, J.G.:** Evaluation of Water Sampling Depth in a Shallow Stratified Danish Sea. Poster presented at the Conference on the Quality of Measurement in the Marine and Estuarine Environment, Egmond aan Zee, The Netherlands, 6-9 October 1999.

**Satapoomin, S., Nielsen, T.G. & Schou, O.:** The Role of *Oncaea* spp. in the Tropical Andaman Sea. ASLO 1999 Aquatic Sciences Meeting. Limnology and Oceanography: Navigating into the Next Century, Santa Fe, New Mexico, USA, 1-5 February 1999.

**Simonsen, V.:** Gene Flow and Effective Population Size with the Emphasis on Marine Molluscs. The Tenth International Congress & Workshop of the Tropical Marine Mollusc Programme (TMMP). Ministry of Fisheries of Vietnam in Cooperation with Danish International Development Agency, Hanoi & Haiphong/Catba, Vietnam, October 19-30, 1999.



*Sundbäck, K., Brotas, V., Dalsgaard, T., Nielsen, L.P., Underwood, G.J.C. & Viaroli, P.:* Marine Microphytobenthos on a European Scale. Limnology and Oceanography. Navigation into the Next Century ASLO 1999 Aquatic Sciences Meeting, Santa Fe, New Mexico, USA, February 1-5, 1999.

*Sundbäck, K., Brotas, V., Dalsgaard, T., Nielsen, L.P., Underwood, G.J.C. & Viaroli, P.:* Microphytobenthos on a European Scale. 3rd Open Science Meeting ELOISE European Land-Ocean Interaction Studies, Noordwijkerhout, The Netherlands, December 1-4, 1999.

*Vahatalo, A.V., Søndergaard, M., Schlüter, L. & Markager, S.:* The Impact of Solar Radiation on the Decomposition of Detrital Leaves of Eelgrass (*Zostera marina*). Poster presented at the Fourth Finnish Conference of Environmental Sciences, Tampere, Finland, 21-22 May 1999.

### **308 Terrestrisk Miljø og Natur**

#### **Internationale videnskabelige publikationer**

*A'Hara, S., Harling, R., McKinlay, R. & Topping, C. (1998):* RAPD Profiling of Spider (ARANEAE) DNA. - Journal of Arachnology 26:397-400.

*Bayley, M. & Holmstrup, M. (1999):* Water Vapor Absorption in Arthropods by Accumulation of Myoinositol and Glucose. - Science 285(5435):1909-1911.

*Borchsenius, F. & Skov, F. (1999):* Conservation Status of Ecuadorian Palms. - Acta Botanica Venezuelica 22(1):221-236.

*Diekmann, M. & Lawesson, J.E. (1999):* Shifts in Ecological Behaviour of Herbaceous Forest Species Along a Transect from Northern Central to North Europe. - Folia Geobotanica 34:127-141.

*Diekmann, M. & Lawesson, J.E. (1999):* Shifts in Ecological Behaviour of Herbaceous Forest Species along a Transect from Northern Central to North Europe. In: Marhold, K., Schmid, B. & Krahulec, F.: Ecology of Closely Related Plant Species. - Special Features in Biosystematics and Biodiversity 3:133-148.

*Diekmann, M., Eilertsen, O., Fremstad, E., Lawesson, J.E. & Aude, E. (1999):* Beech Forest Communities in the Nordic Countries - a Multivariate Analysis. - Plant Ecology 140:203-220.

*Elmeros, M. & Madsen, A.B. (1999):* On the Reproduction Biology of Otters (*Lutra lutra*) from Denmark. - Zeitschrift für Säugetierkunde 64:193-200.

*Forchhammer, M.C., Post, E. & Stenseth, N.C. (1999):* The North Atlantic Oscillation: Interactions between Climatic and Biological Processes. - NSN Newsletter 24:10-14.

*Hald, A.B. (1999):* The Impact of Changing the Season in which Cereals are Sown on the Diversity of the Weed Flora in Rotational Fields in Denmark. - Journal of Applied Ecology 36:24-32.

**Hald, A.B.** (1999): Weed Vegetation (Wild Flora) of Long Established Organic Versus Conventional Cereal Fields in Denmark. - *Annals of Applied Biology* 134:307-314.

**Hermy, M., Honnay, O., Firbank, L., Grashof-Bokdam, C.J. & Lawesson, J.** (1999): An Ecological Comparison between Ancient and other Forest Plant Species of Europe, and the Implications for Forest Conservation. - *Biological Conservation* 91:9-22.

**Holm, L.-E., Forchhammer, M.C. & Boomsma, J.J.** (1999): Low Genetic Variation in muskoxen (*Ovibos moschatus*) from Western Greenland using Microsatellites. - *Molecular Ecology* 8:675-679.

**Holmstrup, M., Costanzo, J.P. & Lee, R.E. Jr** (1999): Cryoprotective and Osmotic Responses to Cold Acclimation and Freezing in Freeze-Tolerant and Freeze-Intolerant Earthworms. - *Journal of Comparative Physiology. B* 169:207-214.

**Hovmand, M.F. & Bille-Hansen, J.** (1999): Atmospheric Input to Danish Spruce Forests and Effects on Soil Acidification and Forest Growth Based on 12 Years Measurements. - *Water, Air and Soil Pollution* 116:75-88.

**Hovmand, M.F. & Riis-Nielsen, T. (eds.)** (1999): Mineral Cycling and Air Pollution Fluxes to Heath and Reforested Heathland. Papers Presented at an International Workshop held in Vedersø Klit, Ulfborg, Denmark, 26-28 August 1996. Elsevier. 167 pp. - *Forest Ecology and Management* 114(1).

**Jacobsen, A. & Hansen, B.U.** (1999): Estimation of the Soil Heat Flux/Net Radiation Ratio Based on Spectral Vegetation Indexes in High-Latitude Arctic Areas. - *International Journal of Remote Sensing* 20(2):445-461.

**Jørgensen, H.B. & Lövei, G.L.** (1999): Tri-Trophic Effect on Predator Feeding. Consumption by the Carabid *Harpalus affinis* of *Heliothis armigera* Caterpillars Fed on Proteinase Inhibitor-Containing Diet. - *Entomologia Experimentalis et Applicata* 93:113-116.

**Kristensen, H.L. & McCarty, G.W.** (1999): Mineralization and Immobilization of Nitrogen in Heath Soil under Intact *Calluna*, after Heather Beetle Infestation and Nitrogen Fertilization. - *Applied Soil Ecology* 13:187-198.

**Mayoh, B.H., Topping, C.J. & Rehder, M.J.** (1998): A Language for Biological, Hydraulic and Ecological Modelling. In: Babovic, V. & Larsen, L.C. (eds.): *Hydroinformatics '98*. Proceedings of the Third International Conference on Hydroinformatics/Copenhagen/Denmark/24-26 August 1998. A.A.Balkema. Pp. 657-662.

**Mucci, N., Pertoldi, C., Madsen, A.B., Loeschcke, V. & Randi, E.** (1999): Extremely Low Mitochondrial DNA Control-Region Sequence Variation in the Otter *Lutra lutra* Population of Denmark. - *Hereditas* 130:331-336.

**Nielsen, K.E., Ladekarl, U.L. & Nørnberg, P.** (1999): Dynamic Soil Processes on Heathland Due to Changes in Vegetation to Oak and Sitka Spruce. In: Hovmand, M.F. & Riis-Nielsen, T. (eds.): *Mineral Cycling and Air Pollution*

Fluxes to Heath and Reforested Heathland. Papers Presented at an International Workshop held in Vedersø Klit, Ulfborg, Denmark, 26-28 August 1996. Elsevier. - Forest Ecology and Management 114:107-116.

**Nygaard, B. & Lawesson, J.E. (1999):** Systematics and Ecology of Danish Salt Marsh Communities. - *Annali di Botanica* LVI(1):53-72.

**Post, E., Forchhammer, M.C., Stenseth, N.C. & Langvatn, R. (1999):** Extrinsic Modification of Vertebrate Sex Ratios by Climatic Variation. - *American Naturalist* 154(2):194-204.

**Post, E., Forchhammer, M.C. & Stenseth, N.C. (1999):** Population Ecology and the North Atlantic Oscillation. - *Ecological Bulletin* 47:117-125.

**Post, E., Langvatn, R., Forchhammer, M.C., & Stenseth, N.C. (1999):** Environmental Variations Shapes Sexual Dimorphism in Red Deer. - *Proceedings of the National Academy of Sciences, USA* 96:4467-4471.

**Skov, F. (1999):** People and Biodiversity in Andean Rain Forests. In: Macintosh, D.J. & Nielsen, T. (eds): *Proceedings of the Conference on Biodiversity and Development - 21st October 1998*. Århus University. Centre for Tropical Ecosystems Research. Pp. 11-18.

**Staaland, H. & Olesen, C.R. (1999):** Mineral Nutrition and Alimentary Pools in Muskoxen and Caribou on the Angujaartorfiup Nunaa Range in West Greenland. - *Rangifer* 19(1):33-40.

**Stenseth, N.C., Chan, K.-S., Tong, H., Boonstra, R., Boutin, S., Krebs, C.J., Post, E., O'Donoghue, M., Yoccoz, N.G., Forchhammer, M.C. & Hurrell, J.W. (1999):** Common Dynamic Structure of Canada Lynx Populations within Three Climatic Regions. - *Science* 285(5430):1071-1073.

**Strandberg, M. & Johansson, M. (1999):** Uptake of Nutrients in *Calluna vulgaris* Seed Plants Grown with and without Mycorrhiza. In: Hovmand, M.F. & Riis-Nielsen, T. (eds.): *Mineral Cycling and Air Pollution Fluxes to Heath and Reforested Heathland. Papers Presented at an International Workshop held in Vedersø Klit, Ulfborg, Denmark, 26-28 August 1996*. Elsevier. - Forest Ecology and Management 114:129-135.

**Topping, C.J. (1999):** An Individual-Based Model for Dispersive Spiders in Agroecosystems: Simulations of the Effects of Landscape Structure. - *Journal of Arachnology* 27:378-386.

**Topping, C.J., Rehder, M.J. & Mayoh, B.H. (1999):** Viola: A New Visualprogramming Language Designed for the Rapid Development of Interacting Agent Systems. - *Acta Biotheoretica* 47:129-140.

**Tybjerg, K. & Strandberg, B. (1999):** Oak Forest Development as a Result of Historical Land-Use Patterns and Present Nitrogen Deposition. In: Hovmand, M.F. & Riis-Nielsen, T. (eds.): *Mineral Cycling and Air Pollution Fluxes to Heath and Reforested Heathland. Papers Presented at an International Workshop held in Vedersø Klit, Ulfborg, Denmark, 26-28 August 1996*. Elsevier. - Forest Ecology and Management 114:97-106.

Warren, J.M. & Topping, C.J. (1999): A Space Occupancy Model for the Vegetation Succession that Occurs on Set-Aside. - Agriculture, Ecosystems and Environment 72:119-129.

#### **Afhandlinger**

**Hels, T. (1999):** Effects of Roads on Amphibian Populations. PhD thesis - Vejanlægs effekter på lavmobile hvirveldyr. PhD afhandling. University of Copenhagen. Department of Population Biology and National Environmental Research Institute. Department of Landscape Ecology. 80 pp.

**Kristensen, H.L. (1999):** Turnover of Nitrogen in Danish Inland Heath Soils. Relations to Ecosystem Changes and Methodological Aspects. PhD thesis - Omsætning af kvælstof i jord fra danske indlandsheder. Relationer til ændringer af økosystemet og metodiske aspekter. PhD afhandling. Aalborg University. Department of Civil Engineering and National Environmental Research Institute. Department of Terrestrial Ecology. 125 pp.

#### **DMU rapporter**

**Asferg, T. (1999):** Krager, husskader og småvildt. En vurdering af prædations effekt på småvildtbestande og muligheden for at begrænse effekten ved jagt og regulering. Afdeling for Landskabsøkologi. 52 s.- Faglig rapport fra DMU 283.

**Hammershøj, M. & Asferg, T. (1999):** Mink *Mustela vison* og ilder *M. putorius*. Mink- og ilderjagten i Danmark 1996/97 og problemer med de to arter i forhold til små fjerkræhold. Afdeling for Landskabsøkologi. 56 s.- Faglig rapport fra DMU 273.

**Hammershøj, M., Prang, A. & Asferg, T. (1999):** Kragefugle i et dansk kulturlandskab. Feltundersøgelser 1997-99. Afdeling for Landskabsøkologi. 34 s.- Faglig rapport fra DMU 300.

**Hartmann, P., Kanstrup, N., Asferg, T. & Fredshavn, J. (1999):** Kvalitetsparametre for haglammunition. En undersøgelse af spredning og indtrængningsevne som funktion af haglenes størrelse og form. Afdeling for Landskabsøkologi. 36 s.- Faglig rapport fra DMU 295.

**Nygaard, B., Mark, S., Baattrup-Pedersen, A., Dahl, K., Ejrnæs, R., Fredshavn, J., Hansen, J., Lawesson, J., Münier, B., Møller, P.F., Risager, M., Rune, F., Skriver, J. & Søndergaard, M. (1999):** Naturkvalitet - kriterier og metodeudvikling. Afdeling for Landskabsøkologi, Afdeling for Kystzoneøkologi, Afdeling for Vandløbsøkologi, Afdeling for Havmiljø og Mikrobiologi, Afdeling for Sø- og Fjordøkologi & Afdeling for Systemanalyse. 118 s.- Faglig rapport fra DMU 285.

**Reddersen, J., Tybirk, K., Halberg, N. & Jensen, J. (1999):** Mere og bedre natur i landbrugslandet - dokumenteret grundlag for en ekstra indsats. Afdeling for Landskabsøkologi og Afdeling for Terrestrisk Økologi. 109 s.- Faglig rapport fra DMU 288.

#### **Øvrige faglige artikler, rapporter og bogbidrag**

**National Environmental Research Institute (1999):** Critical Loads Copenhagen 21-25 1999. Abstracts and Programme from an International Conference. National Environmental Research Institute. 180 pp.

**Adler, N. & Bak, J. (1999):** EU's Emission Ceilings Implemented in Denmark. In: Kunisch, M. & Eckel, H. (eds.): Regulation of Animal Production in Europe. International Congress in Wiesbaden, May 9-12, 1999. Kuratorium für Technik und Bauwesen in der Landwirtschaft - KTBL. - Arbeitspapier 270:27-30.

**Andersen, P.N., Hjarsen, T. & Williams, N.M. (1999):** Monitoring and Management of High Andean Biodiversity - a study from Cochabamba, Bolivia. Centre for Research on the Cultural and Biological Diversity of Andean Rainforests (DIVA). 111 pp. - DIVA, Technical Report 6.

**Axelsen, J.A. (1999):** Biologisk aktivitet i dyrkningslaget. I: Priesholm, M. (red.): Jordbearbejdning og jordfrugtbarhed. Rapport fra et seminar afholdt af landsforeningen Økologisk Jordbrug 27. september 1999. Århus: Landsforeningen Økologisk Jordbrug. s. 25-29.

**Axelsen, J.A., Møller Marcussen, B., Bay Andersen, S., Bilde, T., Elmholt, S., Debosz, K. & Thorup-Kristensen, K. (1999):** Sammenhænge imellem jordens frugtbarhed, springhaler og overfladelevende prædatorer i økologisk jordbrug. - Miljøforskning 39:15-20.

**Bak, J. (1999):** Uncertainties in Impacts. In: Johansson, M. & Lindström, M. (eds.): National Integrated Assessment Modelling. Workshop Report of Project Coupling of CORINAIR Data to Cost-Effective Emission Reduction Strategies Based on Critical Thresholds at the National Italian Board for New Technologies, Energy and Environment - ENEA, Rome, Italy, June 7-8, 1999 (EU/LIFE97/ENV/FIN336). Helsinki: Finnish Environment Institute. - The Finnish Environment 371:30-33.

**Bak, J. & Løkke, H. (1999):** Denmark - National Focal Center Report. In: Calculation and Mapping of Critical Thresholds in Europe. Status Report 1999. Bilthoven: Coordination Center for Effects, National Institute of Public Health and the Environment. - RIVM Report 259101009:76-78.

**Bak, J., Tybirk, K., Gundersen, P., Jensen, J.P., Conley, D. & Hertel, O. (1999):** Natur- og miljøeffekter af ammoniak. Danmarks JordbrugsForskning. 66 s. - Ammoniakfordampning - redegørelse 3.

**Bruun, H.H. & Ejrnæs, R. (1998):** Overdrev - en beskyttet naturtype. Skov- og Naturstyrelsen. 222 s.

**Ejrnæs, R. (1999):** Den danske natur er blevet kedelig. Og hvad så? I: Myrthu-Nielsen, L. & Bramming, B. (red.): Økologi er på alles læber. En debatbog om økologi og folkeoplysning. Forlaget Hovedland. s. 46-51.

**Elmholt, S. & Axelsen, J.A. (1999):** Jordens biologi. I: Alrøe, H. F. & Andresen, C.B. (red.): Natur, miljø og ressourcer i økologisk jordbrug. Forskningscenter for Økologisk Jordbrug (FØJO). - FØJO-rapport 3/1999:51-67.

**Forchhammer, M.C. (1999):** *Ovibos moschatus*. In: Mitchell-Jones, A.J., Amori, G., Bogdanowicz, W., Krystufek, B., Reijnders, P.J.H., Spitzenberger, F., Stubbe, M., Thissen, J.B.M., Vohralik, V., Zima, J.: The Atlas of European Mammals. T & A D Poyser. Pp. 408-409.

**Hald, A.B. (1999):** Landbrug & agerlandets natur : Samspil - modspil. Fremtidigt samspil? - Naturrådet / Tema-rapport. Natur og landbrug 99-01:24-34.

**Hammershøj, M. (1999):** Barrierer for dyreliv – afværgeforanstaltninger. - MISA-rapport 99/07:61-65.

**Hammershøj, M. (1999):** Fragmentering og korridorer i Landskabet. - MISA-rapport 99/07:23-26.

**Hammershøj, M. (1999):** Korridorer i landskabet - transportmuligheder for planter og dyr. I: Kristensen, L. & Petersen, E.H.: Transport og Landskab. Center for Landskabsforskning, Roskilde Universitet. - Landskabsøkologiske skrifter 13:41-48.

**Langer, V., Odderskær, P., Heidmann, T. & Dalgaard, T. (1999):** Omlægning til økologisk jordbrug : konsekvenser for natur og miljø - Miljøforskning : Den gode jord. Det Strategiske Miljøforsknings-Program 39:21-25.

**Madsen, A.B. (1999):** The Ecology and Conservation of the Otter *Lutra lutra* in Denmark. In: Langbroek, A.J. & Kennedy, C. (Eds.): Proceedings from Seminar on Otter Promoting Measures, 25th - 26th of March 1999, Otterpark Aqualutra, Leeuwarden, The Netherlands. Aqualutra. Pp. 2-6.

**Madsen, A.B. (1999):** Vejanlæg og fragmentering af landskabet. I: Kristensen, L. & Petersen, E.H.: Transport og Landskab. Center for Landskabsforskning, Roskilde Universitet. - Landskabsøkologiske skrifter 13:49-56.

**Reddersen, J. (1999):** Naturindhold i økologisk jordbrug. I: Alrøe, H.F. & Andreasen, C.B. (red.): Natur, miljø og ressourcer i økologisk jordbrug. Forskningscenter for Økologisk Jordbrug. - FØJO-rapport 3:69-84.

**Reddersen, J. (1999):** Sammenhæng mellem biodiversitet og økologisk jordbrug. - Forskningsnytt om økologisk landbrug i Norden 1999(2):4-6.

**Riis-Nielsen, T. & Hovmand, M.F. (1999):** Introduction. In: Hovmand, M.F. & Riis-Nielsen, T. (eds.): Mineral Cycling and Air Pollution Fluxes to Heath and Reforested Heathland. Papers Presented at an International Workshop held in Vedersø Klit, Ulfborg, Denmark, 26-28 August 1996. Elsevier. - Forest Ecology and Management 114(1):1-3.

**Thyssen, N. (ed.). With contributions from Bak, J. & Strandberg, M. (1999):** Nutrients in European Ecosystems. European Environment Agency. 155 pp. - Environmental Assessment Report 4.

#### **Populærfaglig formidling m.v.**

**Asferg, T. (1999):** Kragefugle. I: Kørvel, H. (red): Gyldendals Jagthåndbog. Gyldendalske Boghandel. s. 304-305.

**Asferg, T. (1999):** Pattedyr. I: Kørvel, H. (red): Gyldendals Jagthåndbog. Gyldendalske Boghandel. s. 306-318.

**Asferg, T. (1999):** Kan det betale sig at bekæmpe krager og skader? - Vildtinformation 99:16-17.

*Asferg, T. (1999):* Nedlagt vildt i sæsonen 1997/98. - Vildtinformation 99:20-21.

*Asferg, T. (1999):* Problematiske pelsdyr. Mink i naturen. - Jagt og Natur 20-21.

*Elmeros, M., Hammershøj, M. & Madsen, A.B. (1999):* Overvågning af grævling (*Meles meles*) ved kortlægning af grave - en vurdering af metoder - Monitoring of Badger (*Meles meles*) - an Evaluation of Methods. - Flora og Fauna 105(3+4):63-68.

*Friis, K., Reddersen, J. & Petersen, I.K. (1999):* Tilplantning af dyrkede marker med energipil : Effekter på regnormefaunaen - Planting SRC-Willow on Arable Fields : Effects on Earthworm Fauna. - Flora og Fauna 105(3+4):71-78.

*Hels, T. & Buchwald, E. (1999):* Døden på asfalten. - Ud & Se: 45.

*Madsen, P., Møller, E., Olesen, C.R., Skovsgaard, J.P. & Jørgensen, B.B. (1999):* Fra traditionel til naturnær skovdrift. - Skoven 31(4):162-163.

*Olesen, C.R. (1999):* Vildtets følsomhed over for forstyrrelser. - Vildtinformation 99:14-15.

*Skov, F., Borgtoft, H. & Fjeldså, J. (1999):* Tropisk biodiversitet - skov og mennesker i Ecuador. Afdeling for Landskabsøkologi. 56 s.- TEMA-rapport fra DMU 25/1999.

*Tybirk, K. & Jørgensen, V. (1999):* Ammoniak i landbrug og natur. Afdeling for Terrestrisk Økologi og Danmarks JordbrugsForskning. 39 s.- Jordbrug & Miljø 1.

*Tybirk, K. & Nan Hansen, D. (1999):* Revling i klitheden. - Urt 23(4):115-120.

#### **Indlæg ved kongresser, symposier m.v.**

*Andersen, K.N. & Reddersen, J.:* Forskelle i småpattedyrfaunaen på jorden og oppe i vegetationen. Dansk Mammalogisk Forening. Dansk Pattedyrmøde, Vildtforvaltningsskolen, Rønne, 19-20 november 1999.

*Andersen, K.N., Jensen, T.S., Reddersen, J. & Petersen, I.K.:* The Habitat Potential of Short Rotation Coppice (SRC) Willow Stands for Small Mammals. Poster presented at 3rd European Congress of Mammology, Jyväskylä, Finland, 29 May – 3 June 1999.

*Andersen, K.N., Jensen, T.S., Reddersen, J. & Petersen, I.K.:* The Habitat Potential of Short Rotation Coppice (SRC) Willow Stands for Small Mammals. Poster præsenteret ved Dansk Mammalogisk Forening. Dansk Pattedyrmøde, Vildtforvaltningsskolen, Rønne, 19-20 november 1999.

**Asferg T.:** Populationsøkologiske og forvaltningsmæssige aspekter i forbindelse med ræveskab. Poster præsenteret på Dansk Miljøforskning 1999, H.C.Ørsted Institutet, København, 19.-20. august 1999.

**Axelsen, J.A.:** Biologisk aktivitet i dyrkningslaget set i relation til jordbearbejdning. Jordbearbejdning og jordfrugtbarhed Seminar afholdt af Landsforeningen for Økologisk Jordbrug, Århus Husholdningsskole, Risskov, 27. september 1999.

**Baatrup-Pedersen, A.:** Indikatorer for naturkvalitet i lysåbne terrestriske naturtyper. Præsentation af resultater - Vandløbsnære arealer. Naturkvalitet - kriterier og metodeudvikling Åbent seminar arrangeret af Danmarks Miljøundersøgelser, Danmarks og Grønlands Geologiske Undersøgelser & Forskningscenter for Skov og Landskab, Ferskvandscentret, Silkeborg, 10. november 1999.

**Bak, J.:** Sensitivity of Calculated Danish Emission Ceilings. LIFE Workshop on Coupling of CORINAIR Data to Cost-Effective Emission Reduction Strategies Based on Critical Thresholds (LIFE97/ENV/FIN/000336), Madrid, Spain, January 11-13, 1999.

**Bak, J.:** Uncertainties in Impacts. Workshop on National Integrated Assessment Modelling (NIAM), ENEA, Rome, Italy, June 7, 1999.

**Bak, J.:** Uncertainties in Large Scale Assessment of Critical Load Exceedances, and the Possibilities of Validation. Critical Loads International Conference, Copenhagen, November 21-25, 1999.

**Bayley, M.:** Water Vapour Absorption in a Permeable Soil Arthropod below the Permanent Wilting Percentage. Effects of Climate Change on Soil Animals in the Arctic Population Ecological, Ecophysiological and Ecotoxicological Approaches. A Nordic workshop, Silkeborg, November 19-20, 1999.

**Bayley, M.:** Water Vapour Absorption in a Permeable Soil Arthropod below the Permanent Wilting Percentage. International Workshop on Environmental Stress and Adaption, University of Aarhus, Biological Field Station, Rønbjerg, October 28-30, 1999.

**Brandt, J., Groom, G. & Holmes, E.:** (De)Scaling the Heterogeneity of Danish Agricultural Landscapes. NORDLAM. Nordic Workshop on Landscape, Environment and Biodiversity Monitoring, Fuglsø Centre, Denmark, 14-17th October 1999.

**Debosz, K. & Kristensen, H.L.:** Impact of Tillage on Short-Term C and N Turnover in Organic Farming. 10th Nitrogen Workshop, The Royal Veterinary and Agricultural University, Copenhagen, August 23-26, 1999.

**Ejrnæs, R., Nygaard, B., Lawesson, J. & Fredshavn, J.:** Naturkvalitet i terrestriske økosystemer. Dansk Miljøforskning 1999, H.C.Ørsted Institutet, København, 19.-20. august 1999.



**Forchhammer, M.C., Lindström, J. & Clutton-Brock, T.H.:** To be or not to be Born with a Silver Spoon : Early Development and the Fate of Soay Sheep Cohorts. 3rd European Congress of Mammalogy, Jyväskylä, Finland, May 29 – June 3 1999.

**Fosaa, A.M. & Lawesson, J.E.:** Vegetation Zones in Relation to Climatic Parameters in some Faroese Mountains and Ecological Behaviour of Selected Plant Species. Poster presented at 42th IAVS Symposium. Vegetation and Climate, Vitoria-Gazteiz, Gobierno Vasco, Bilbao, Spain, 26-30 July 1999.

**Hald, A.B.:** Impact from Agricultural Fields on Vegetation of River Border Zones. VIII European Ecological Congress. The European Dimension in Ecology Perspectives & Challenges for the 21st Century, Halkidiki, Greece, September 18-23, 1999.

**Hammershøj, M.:** Afværgeforanstaltninger. Nordisk konferanse om veg, vegtrafikk og habitatfragmentering, Sundvolden Hotel, Norge, 1.-3. marts 1999.

**Hammershøj, M.:** Fragmentering og korridorer i landskabet. Nordisk konferanse om veg, vegtrafikk og habitatfragmentering, Sundvolden Hotel, Norge, 1.-3. marts 1999.

**Hammershøj, M. & Asferg, T.:** Mink and Polecat in Denmark : Status, Control, and Damage to Poultry. Poster presented at 3rd European Congress of Mammalogy, Jyväskylä, Finland, May 29 - June 3 1999.

**Hammershøj, M. & Asferg, T.:** Mink and Polecat in Denmark : Status, Control, and Damage to Poultry. Poster præsenteret ved Dansk Mammalogisk Forening. Dansk Pattedyrmøde, Vildtforvaltningsskolen, Rønde, 19-20 november 1999.

**Hammershøj, M. & Asferg, T.:** Mink Damage to Poultry in Denmark. Poster presented at 2nd European Vertebrate Pest Management Conference, Braunschweig, Germany, 6 - 8 September 1999.

**Holmstrup, M.:** Physiological Adaptations to Climatic Stress. International Workshop on Environmental Stress and Adaption, University of Aarhus, Biological Field Station, Rønbjerg, October 28-30, 1999.

**Jacobsen, A.:** Spectral Signature Analysis of Field Measurements and Supervised Classification of Grasslands Using Casi Data. The 4th International Airborne Remote Sensing Conference and Exhibition, Ottawa, Canada, 21-24 June 1999.

**Jacobsen, A., Nielsen, A., Ejrnæs, R. & Hansen, B.U.:** Spectral Identification of Danish Grassland Classes Related to Management and Plant Species Composition. Paper and Poster presented at the 4th International Airborne Remote Sensing Conference and Exhibition, Ottawa, Canada, 21-24 June 1999.

**Lawesson, J.E.:** Synopsis of Major Forest Types in Denmark. 42th IAVS Symposium. Vegetation and Climate, Vitoria-Gazteiz, Gobierno Vasco, Bilbao, Spain, 26-30 July 1999.

**Leyssac, N. & Madsen, A.B.:** Age Determination of the Eurasian Badger *Meles meles*. Poster presented at 18th Mustelid Kolloquium, Schloss Zeillern NÖ, Austria, 16-19 September 1999.

**Løkke, H.:** Aims and Outline of the Conference. Critical Loads Copenhagen International Conference, Denmark, November 21-25, 1999.

**Madsen, A.B.:** De store pattedyr og de alt for små landskaber. Aktører i Landskabet, SMP2-Centeret Foranderlige Landskaber, Esbjerg, 1.-2. marts 1999.

**Madsen, A.B.:** Er der plads til store pattedyr i det danske landskab? Dansk Miljøforskning 1999, H.C.Ørsted Institutet, København, 19.-20. august 1999.

**Madsen, A.B.:** The Ecology and Conservation of the Otter *Lutra lutra* in Denmark. Seminar on Otter Promoting Measures, Leeuwarden, The Netherlands, 25th –26th March 1999.

**Madsen, A.B., Elmeros, M., Gaardmand, B., Rosengaard, M., Pertoldi, C., Harder, A. & Leyssac, N.:** Habitatvalg og habitatfragmentering hos grævling og ræv. Poster præsenteret ved Dansk Mammalogisk Forening. Dansk Pattedyrmøde, Vildtforvaltningsskolen, Rønne, 19-20 november 1999.

**Madsen, A.B., Søgaard, B., Berthelsen, J.P. & Thomsen, L.R.:** Reintroduktion af bæver (*Castor fiber*) i Danmark. Dansk Mammalogisk Forening. Dansk Pattedyrmøde, Vildtforvaltningsskolen, Rønne, 19-20 november 1999.

**Madsen, P., Olesen, C.R., Jørgensen, B.B. & Møller, E.:** Naturlig foryngelse i løvskov - hvad betyder hugst, hegn og jordbearbejdning. Poster præsenteret på Skov & Landskabskonferencen 1999, Odense Kongres Center, Odense, 3. februar 1999.

**Madsen, P., Vejre, H., Vesterdal, L., Hartung, T. & Olesen, C.R.:** Naturnær skovdrift - løvskovens foryngelse i lysbrønde. Poster præsenteret på Skov & Landskabskonferencen 1999, Odense Kongres Center, Odense, 3. februar 1999.

**Mathiasen, R., Madsen, A.B. & Gaardmand, B.:** Video-Monitoring of Mammals at a Fauna Underpass. Poster presented at 3rd European Congress of Mammalogy, Jyväskylä, Finland, May 29 - June 3 1999.

**Nielsen, K.E.:** How is the Correspondence between Present Day Soil Processes and Soil Chemistry? Critical Loads International Conference, Copenhagen, November 21-25, 1999.

**Odderskær, P. & Prang, A.:** The Use of Spring Barley Fields by Breeding Skylarks in Denmark: a Home Range Study. RSPB/BTO Skylark Workshop, Southampton, England, 28-29 March 1999.

**Olesen, C.R.:** Råvildtbestandens udvikling i Danmark. Inviteret indlæg ved Seminar om råvildtforvaltning, Vildtforvaltningsskolen, Rønede, 8. juni 1999.

**Olesen, C.R.:** Status over råvildtforskningen i Danmark. Inviteret indlæg ved Seminar om råvildtforvaltning, Vildtforvaltningsskolen, Rønede, 8. juni 1999.

**Olesen, C.R. & Andersen, H.R.:** Pace Electrodes and Implants used in Heart Rate Studies of Free Ranging Roe Deer. Poster presented at 15th International Symposium on Biotelemetry, Juneau, Alaska, May 9-14 1999.

**Olesen, C.R. & Kristiansen, N.S.:** Design and Evaluation of an Automatic Localisation System Based on Doppler Antennas used in Wildlife Studies. Poster and Paper presented at 15th International Symposium on Biotelemetry, Juneau, Alaska, May 9-14 1999.

**Pertoldi, C., Loeschcke, V., Braun, A., Madsen, A.B. & Randi, E.:** Craniometrical Variability and Developmental Stability. Two useful Tools for Assessing the Population Viability of Eurasian Otter (*Lutra lutra*) populations in Europe. Poster presented at Dansk Mammalogisk Forening. Dansk Pattedyrmøde, Vildtforvaltningsskolen, Rønede, 19-20 november 1999.

**Reddersen, J.:** Converting to Organic Farming - Possibilities and Restrictions in Space and Time for Re-Establishing Farmland Biodiversity. Invited speech at Kgl. Svenska Vetenskapsakademi konference, Stockholm, Recycling Ecological Agriculture - for Maximal Nutrient Utilisation and a Sustainable Society, Sweden, 22-23 November 1999.

**Reddersen, J.:** Den biologiske baggrund for en naturstrategi for det åbne land. Inviteret indlæg ved DN- & WWF-arbejdskonference, Skovsgaard Langeland, Landbruget og naturen i den fremtidige landdistriktspolitik, 9.-10. september 1999.

**Reddersen, J.:** Har vi brug for mere natur eller bedre natur? Prioriteringer i indsatsen for naturindholdet i landbrugslandskabet. Inviteret indlæg ved Workshopen, Landbrugets Rådgivningscenter, Skejby, Rådgivningsopgaver inden for miljø, natur og landskab, 14. september 1999.

**Reddersen, J.:** Indikatorer for naturkvalitet i det dyrkede land. Inviteret indlæg ved Workshop arrangeret af DMU-LAND/FØJO, Vildtforvaltningsskolen, Rønede, Forskningsbehov i relation til naturindholdet i økologisk jordbrug, 8. oktober 1999.

**Reddersen, J.:** Spredningskorridorer - et kerneområde i naturforvaltningen. Inviteret indlæg ved Workshop arrangeret af Frederiksborg Amt, Hillerød, Spredningskorridorer i naturforvaltningen, 8. december 1999.

**Skriver, J.:** Naturkvalitet i de marine og akvatiske miljøer. Præsentation af resultater - Vandløb. Naturkvalitet - kriterier og metodeudvikling Åbent seminar arrangeret af Danmarks Miljøundersøgelser, Danmarks og Grønlands Geologiske Undersøgelser & Forskningscenter for Skov og Landskab, Ferskvandscentret, Silkeborg, 10. november 1999.

**Strandberg, M.:** Indikatorer for naturkvalitet i skov. Præsentation af resultater - et karplante- og strukturindeks. Naturkvalitet - kriterier og metodeudvikling Åbent seminar arrangeret af Danmarks Miljøundersøgelser, Danmarks og Grønlands Geologiske Undersøgelser & Forskningscenter for Skov og Landskab, Ferskvandscentret, Silkeborg, 10. november 1999.

**Strandberg, M.:** Indikatorer for naturkvalitet i lysåbne terrestriske naturtyper. Præsentation af resultater - Ferske enge og strandenge. Naturkvalitet - kriterier og metodeudvikling Åbent seminar arrangeret af Danmarks Miljøundersøgelser, Danmarks og Grønlands Geologiske Undersøgelser og Forskningscenter for Skov og Landskab, Ferskvandscentret, Silkeborg, 10. november 1999.

**Teffelen van, A., Elmeros, M. & Madsen, A.B.:** Diurnal Resting of European Badger *Meles meles* in Denmark. Poster presented at 18th Mustelid Kolloquium, Schloss Zeillern NÖ, Austria, 16-19 September 1999.

**Tybirk, K.:** Critical Loads. Some Remarks on Ecology, Diversity Conservation and Ethics. Critical Loads International Conference, Copenhagen, November 21-25, 1999.

**Tybirk, K.:** Critical Loads and Levels - S, N and O<sub>3</sub>. Principles, Practical Use and Future. Welt Forum Wald. Forests and Atmosphere - Water - Soil, Soltau, Germany, July 2-5, 1999.

**Tybirk, K.:** Do we have Clear Dose-Response Functions of Air Pollution? Nordic Workshop on Nordic Environmental Economic Research Concerning the Monetary Value of Reduced Emission to Air, Swedish Environmental Protection Agency, Stockholm, Sweden, January 11-12, 1999.

**Tyler, N., Forchhammer, M.C. & Øritsland, N.A.:** Persistent Instability in Svalbard Reindeer Dynamics : Density-dependence in a Fluctuating Environment. 10th Arctic Ungulate Conference, Tromsø, Norway, 9-12 August 1999.

### **399 Faglig tværgående indsats**

#### **Internationale videnskabelige publikationer**

**Fuller, R.M., Groom, G.B., Mughisa, S., Ipulet, P., Pomeroy, D., Katende, A., Bailey, R. & Ogutu-Ohwayo, R. (1998):** The Integration of Field Survey and Remote Sensing for Biodiversity Assessment : A Case Study in the Tropical Forests and Wetlands of Sango Bay, Uganda. - Conservation Biology 18:379-391.

**Groom, G., Weiers, S., Stjernholm, M. & Mielby, S. (1999):** Image Analysis and GIS Integration for Land Use and Habitat Map Update Application. The MoBio Project. In: Stubkjær, E. & Hansen, H.S. (eds.): Proceedings of

ScanGIS'99, the 7th Scandinavian Research Conference on Geographical Information Science, Aalborg, Denmark, June 7-9, 1999. Aalborg University Press. Pp. 155-168.

**Jacobsen, A., Drewes, N., Stjernholm, M. & Balstrøm, T. (1999):** Generation of a Digital Elevation Model of Mols Bjerger, Denmark, and Georeferencing of Airborne Scanner Data. - *Geografisk Tidsskrift = Danish Journal of Geography* 99:35-45.

**Skov, F. (1999):** Spatial Modelling for Tropical Biodiversity Assessment. In: Stubkjær, E. & Hansen, H.S. (eds.): Proceedings of ScanGIS'99, the 7th Scandinavian Research Conference on Geographical Information Science, Aalborg, Denmark, June 7-9, 1999. Aalborg University Press. Pp. 203-214.

#### **Øvrige faglige artikler, rapporter og bogbidrag**

**Loke, E., Rauch, W., Carstensen, J. & Harremöes, P. (1999):** A Methodology Overview for Water Quality Problems. In: Joliffe, I.B. & Ball, J.E. (eds.): Proceedings of the Eighth International Conference on Urban Storm Drainage. Sydney Hilton Hotel, Sydney, Australia, 30 August - 3 September 1999. Volume 2. Institution of Engineers, Australia. pp. 665-673.

**Mcloy, K. (ed), Groom, G., Hansen, B., Nielsen, A., Skriver, H. & Thomsen, A. (1999):** DANMAC : DANish Multidensor Airborne Campaign. Final Report 1996-1998. 84 pp.

**Mielby, S. & Platou, S.W. (1999):** AIS - A Framework for Handling Spatial Environmental Data at National Scale. In: Ostman, A. (ed.): 2nd Agile Conference on Geographic Information Science, University of Rome, April 15-17, 1999. University of Rome. Pp. 112-119.

**Mielby, S., Platou, S.W. & Müller-Wohlfeil, D.I. (1999):** Collection and Management of Hydrological Related Data in a Danish Nation Wide Area Information System. In: Bundesanstalt für Gewässerkunde IHP/OHP: International Conference on Quality, Management and Availability of Data for Hydrology and Water Resources Management, Koblenz, Federal Republic of Germany, March 22-26, 1999. Koblenz: Deutsches Nationalkomitee für das IHP/OHP. Pp. 247-249.

**Weiers, S., Mielby, S., Groom, G., Stjernholm, M., Wissen, M., Bock, M., Schade, B. & Tschach, E. (1999):** Monitoring of Changes in Biotope and Land Use Inventory in Denmark and Schleswig-Holstein by means of Satellite Image Analysis and GIS Technology : MOBIO. Final Report to European Commission. 101 pp. + 4 appendices.

**Weiers, S., Mielby, S., Groom, G., Stjernholm, M., Wissen, M., Bock, M., Schade, B. & Tschach, E. (1999):** Monitoring of Changes in Biotope and Land Use Inventories in Schleswig Holstein and Denmark by means of Satellite Image Analysis and GIS - MOBIO. WWW page of the MOBIO Project funded within the Centre for Earth Observation (CEO), Area 3.3 - Application Support EU programme as a shared cost action. <http://www.dfd.dlr.de/extern/MOBIO/> (visited January 25, 2000).

**Secher, K., Brogaard, L.W. & Thorsted, L. (red.) (1999):** Dansk Miljøforskning 1999. Resumé af foredrag og posters. Konference arrangeret af Danmarks Miljøundersøgelser, H.C. Ørsted Institutet, København, 19.-20. august 1999. Danmarks Miljøundersøgelser. 120 s.

#### **Indlæg ved kongresser, symposier m.v.**

**Loke, E., Rauch, W., Carstensen, J. & Harremöes, P.:** A Methodology Overview for Water Quality Problems. 8th International Conference on Urban Storm Drainage, Sydney, Australia, 30 August - 3 September 1999.

**Mielby, S. & Stjernholm, M.:** The Danish Area Information System (AIS) of Land Use Inventory. NORDLAM. Nordic Workshop on Landscape, Environment and Biodiversity Monitoring, Fuglsø Centre, Denmark, October 14-17, 1999.

**Mielby, S., Platou, S.W. & Müller-Wohlfeil, D.-I.:** Collection and Management of Hydrological Related Data in a Danish Nation Wide Area Information System. International Conference on Quality, Management and Availability of Data for Hydrology and Water Resources Management. Deutsches Nationalkomitee für das IHP/OHP, Koblenz., Federal Republic of Germany, March 22-26, 1999.

**Müller-Wohlfeil, D.-I.:** Development Levels of GIS Based Information Systems - Denmark. International Workshop on GIS-Based Hydrological Mapping in Central Europe, Koblenz, Germany, October 12-14, 1999.

**Müller-Wohlfeil, D.-I., Larsen, S.E., Kronvang, B., Ovesen, N.B. & Svendsen, L.M.:** Regional Modelling of Riverine Diffuse Nitrogen Loading of Danish Coastal Waters Applying a Gis-Based Empirical Modelling System. 3rd Open Science Meeting ELOISE European Land-Ocean Interaction Studies, Noordwijkerhout, The Netherlands, December 1-4, 1999.