

## curriculum vitae

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 date of birth May 27, 1970  
 nationality German  
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### Education

April 2001 **Ph.D. Dissertation** (summa cum laude), Gießen University, Germany.  
**Thesis:** *Testate amoebae (Protozoa) of European coniferous forest soils: community structure and contribution to the flow of energy and nutrients through the decomposer food web.*  
 Supervisors: Prof. Dr. V. Wolters and Prof. Dr. P.C. De Ruiter.

Nov 1995 **Diploma** Biology (first honours), Technical University Aachen, Germany.  
**Thesis** (Nov 1994 - Nov 95): *Charakterisierung von Lebensgemeinschaften beschalter Amöben (Protozoa) in Böden von Fichtenforsten.*  
 Supervisors: Prof. Dr. P. Schmidt and Dr. R. Meisterfeld.

May 1989 **Qualification university entrance** (Abitur, first honours):  
 Pascal-Gymnasium, Grevenbroich, Germany.

Aug 1987 - May 89 German high school: grades 5 – 10, grades 12 – 13; grade 11 skipped with  
 Aug 1980 - July 86 permission of authorities.

Aug 1986 - July 87 **High school diploma** (first honours, honour society): Little Valley,  
 New York, USA.

### Professional positions

pending since May 2008 Call for the chair of “Ecological Services” (full professorship), Elite Study Program of Global Change Ecology, Bayreuth University, Bayreuth, Germany

since March 2007 Researcher and coordinator in the *Environmental Impact Assessment and Climate Change* Group of the Umweltbundesamt GmbH, Vienna, Austria

June 2005 – May 08 Visiting research fellow at the *George Perkins Marsh Institute* at Clark University, Worcester, USA.

Sept 2004 – June 05 Visiting postdoctoral research fellow at the *Center for International Development* at Harvard University, Cambridge, USA.

May 2001 – Mar 05 Postdoctoral research fellow and project director at the *Potsdam Institute for Climate Impact Research*, Department of Global Change and Natural Systems, Germany.

April 1996 - Dec 00 Research assistant at the *Institute of Animal Ecology and Zoology*, Gießen University, Germany.

Dec 1995 - Jan 96 Research assistant at the *Institute of General Biology*, Technical University Aachen, Germany.

Sep 1993, Nov/Dec Undergraduate research assistant at the *Institute of Ecology, Ecotoxicology,*

- 94, Oct 95 *Ecochemistry* and at the *Institute of General Biology*, Technical University Aachen, Germany.
- May 1993, June 95 Undergraduate lecture assistant for practical studies at the Institute of *General Biology*, Technical University Aachen, Germany.
- 1991 - present *Freelance translations* English/German/English for private businesses and public agencies.

## Peer-reviewed publications

**Schröter D.** 2008. Vulnerability to changes in ecosystem services. Contribution to the book *Environmental Vulnerability Assessment for Policy and Decision-Making*, Patt, **Schröter**, Klein, and De la Vega-Leinert (eds.). In print.

Patt A.G., **D. Schröter**, A.C. De la Vega-Leinert, R.J.T. Klein. 2008. An Introduction to the Diversity of Approaches to Vulnerability Research and Assessment: Common Features and Lessons Learned. Introduction to the book *Environmental Vulnerability Assessment for Policy and Decision-Making*, Patt, **Schröter**, Klein, and De la Vega-Leinert (eds.). In print.

Patt A.G. and **D.Schröter**. 2008. Climate risk perception and challenges for policy implementation: evidence from stakeholders in Mozambique. *Global Environmental Change*, 18, 458-467.

Metzger M.J., **D. Schröter**, R. Leemans, W. Cramer. 2008. A spatially explicit and quantitative vulnerability assessment of ecosystem service change in Europe. *Regional Environmental Change*, 8 (3 - Special Issue on Advanced Terrestrial Ecosystem Analysis and Modelling), 91-107.

De la Vega-Leinert A.C., **D. Schröter**, R. Leemans, U. Fritsch, J. Pluimers. 2008. A stakeholder dialogue on European vulnerability. *Regional Environmental Change*, 8 (3 - Special Issue on Advanced Terrestrial Ecosystem Analysis and Modelling), 109-124.

Cramer, w., U. Fritsch, R. Leemans, S. Lütke-meier, **D. Schröter**, A. Watts, 2008. Training future experts in “biodiversity and ecosystem services”: a progress report. *Regional Environmental Change*, 8 (3 - Special Issue on Advanced Terrestrial Ecosystem Analysis and Modelling), 125-134.

Metzger M. and **D. Schröter** 2006. Towards a spatially explicit and quantitative vulnerability assessment of environmental change in Europe. *Regional Environmental Change* 6, 201-216.

**Schröter D.**, M. Zebisch and T. Grothmann 2006: Climate Change in Germany—Vulnerability and Adaptation of Climate-Sensitive Sectors. Contribution to the *Klimastatusbericht 2005* (Report on the State of the Climate 2005), Deutscher Wetterdienst (German Meteorological Service), Offenbach, Germany, <http://www.ksb.dwd.de>, p. 44-56.

Metzger M. J., M. D. A. Rounsevell, L. Acosta-Michlik, R. Leemans, and **D. Schröter**. 2006. The vulnerability of ecosystem services to land use change. *Agriculture, Ecosystems and Environment* 114, 69-85.

**Schröter D.**, W. Cramer, R. Leemans, I.C. Prentice, M.B. Araújo, N.W. Arnell, A. Bondeau, H. Bugmann, T.R. Carter, C.A. Gracia, A.C. de la Vega-Leinert, M. Erhard, F. Ewert, M. Glendining, J.I. House, S. Kankaanpää, R.J.T. Klein, S. Lavorel, M. Lindner, M.J. Metzger, J. Meyer, T.D. Mitchell, I. Reginster, M. Rounsevell, S. Sabaté, S. Sitch, B. Smith, J. Smith, P. Smith, M.T. Sykes, K. Thonicke, W. Thuiller, G. Tuck, S. Zaehle, B. Zierl 2005. Ecosystem Service Supply and Vulnerability to Global Change in Europe. *Science* 310 (5752), 1333-1337. (Published online first 27 Oct. 2005; 10.1126/science.1115233 Science Express).

**Schröter D.** and S. Dekker 2005. Stability and interaction strength within soil food webs of a European forest transect: the impact of N deposition. In: *Dynamic Food Webs: Multispecies assemblages, ecosystem development, and environmental change*, edited by Peter C. De Ruiter and Volkmar Wolters, John Moore,

Academic Press, p. 223-234.

Dekker S.C., S. Scheu, **D. Schröter**, H. Setälä, M. Szanser and T.P. Traas 2005. Towards a new generation of dynamic soil decomposer food web models. In: *Dynamic Food Webs: Multispecies assemblages, ecosystem development, and environmental change*, edited by Peter C. De Ruiter and Volkmar Wolters, John Moore, Academic Press, p. 258-266 .

**Schröter D.**, C. Polsky, and A.G. Patt. 2005. Assessing vulnerabilities to the effects of global change: an eight step approach. *Mitigation and Adaptation Strategies for Global Change* 10 (4) 573-595.

Metzger M., R. Leemans and **D. Schröter** 2005. A multidisciplinary multi-scale framework for assessing vulnerabilities to global change. *International Journal of Applied Earth Observation and Geoinformation*, 7, 253-267.

**Schröter D.** 2005. *Vulnerability to changes in ecosystem services*. CID Graduate Student and Postdoctoral Fellow Working Paper No. 10, July 2005. Center for International Development (CID), Harvard University, Cambridge, USA. Available at [www.cid.harvard.edu/cidwp/grad/010.htm](http://www.cid.harvard.edu/cidwp/grad/010.htm).

**Schröter D.**, L. Brussaard, G. De Deyn, K. Poveda, V.K. Brown, M.P. Berg, D.A. Wardle, J. Moore, D.H. Wall 2004. Trophic interactions in a changing world: modelling aboveground-belowground interactions. Special issue on Above and Belowground Interactions, edited by W. Van Der Putten, P.C. De Ruiter, M. Bezemer and J. Harvey. *Basic and Applied Ecology*, 5 (6), 515-528.

**Schröter D.**, M.J. Metzger, W. Cramer, R. Leemans 2004. Vulnerability assessment – analysing the human-environment system in the face of global environmental change. *Environmental Science Section Bulletin*, Kalmar University, Sweden, 2, 11-17.

Taylor A.R., **D. Schröter**, A. Pflug and V. Wolters. 2004. Responses of different decomposer communities to the manipulation of moisture availability: potential effects of changing precipitation patterns. *Global Change Biology*, 10, 1313-1324.

**Schröter D.**, V. Wolters, P.C. De Ruiter 2003. C and N mineralisation in the decomposer food webs of a European forest transect. *Oikos*, 102, 294-308.

Polsky C., **D. Schröter**, A. Patt, S. Gaffin, M. L. Martello, R. Neff, A. Pulsipher, and H. Selin. 2003. Assessing Vulnerabilities to the Effects of Global Change: An Eight-Step Approach. *Belfer Center for Science and International Affairs Working Paper 2003-05*, Environment and Natural Resources Program, John F. Kennedy School of Government, Harvard University, Cambridge, Massachusetts. pp. 17.

Dauber J., **D. Schröter** and V. Wolters. 2001. Species specific effects of ants on microbial activity and N-availability in the soil of an old-field. *European Journal of Soil Biology*, 37, 259-261.

**Schröter D.** 2001. *Structure and function of the decomposer food webs of forests along a European North-South-transect with special focus on Testate Amoebae (Protozoa)*. Shaker Verlag, Aachen, Germany, 138 pp.

Wolters V., A. Pflug, A.R. Taylor and **D. Schröter**. 2000. Diversity and role of the decomposer food web. In E.-D. Schulze (ed.), *Carbon and Nitrogen Cycling in Forest Ecosystems*. Ecological Studies, Springer, Heidelberg, 142, 366-381.

Ekschmitt K., R. Baxter, C.D. Campbell, R. Ceulemans, K.P. Günther, W.O. Heal, A. Hector, F. Henning, A. Kjoller, S. Matouch, U. Molau, P.I. Nagy, A. Otte, J.G. Pausas, A. Pflug, **D. Schröter**, G. Sillence, N.C. Steiner, S. Struwe, V. Wolters and P.A. Wookey. 2000. Ecosystem functioning and management under multiple stresses and extreme events. In M.A. Sutton, J.M. Moreno, W.H. Van der Putten, and S. Struwe (ed.), *Terrestrial Ecosystem Research in Europe: Successes, Challenges and Policy*. European Commission, Luxembourg, 28-34.

**Schröter D.**, A. Hülsmann, A. Pflug and V. Wolters. 1998. Climate effects on soil biota of coniferous forests: a transect approach. *The Earth's Changing Land - GCTE-LUCC Open Science Conference on Global Change*, March 14-18, Barcelona, Spain, pp. 208-209.

Pflug A., A. Hülsmann, **D. Schröter** and V. Wolters. 1998. Microarthropoden als Steuergröße im Lebensraum Boden. *Mitteilungen der Deutschen Bodenkundlichen Gesellschaft*, 89: 119-121.

**Schröter D.**, A. Hülsmann, A. Pflug and V. Wolters. 1997. Die Bodenfauna in der organischen Auflage entlang eines europäischen Transekts. *Mitteilungen der Deutschen Bodenkundlichen Gesellschaft*, 85, 599-602.

Hülsmann A., **D. Schröter**, A. Pflug and V. Wolters. 1997. Response of the decomposer community to experimental alterations in spruce litter humidity. In S.C. van de Geijn and P.J. Kuikman (eds.) *Prospects for Co-ordinated Activities in Core Projects of GCTE, BAHC and LUCC*. CCB-Wageningen, Wageningen, The Netherlands, 152-153.

Hülsmann A., **D. Schröter**, A. Pflug and V. Wolters. 1997. Struktur und Leistung von Zersetzergemeinschaften in Fichtenforstböden unter Feuchtestress. *Verhandlungen der Deutschen Zoologischen Gesellschaft*, 90, 1, 362.

### Publications submitted and in preparation

**Schröter D.** and W. Cramer. 2007. Environmental impacts of global change in Europe. A contribution to the British Ecological Society/European Ecological Federation Annual Symposium Book *Ecology without frontiers: Environmental challenges across Europe*, edited by James Bullock and Alan Watts. In review.

Klein R.J.T., L. Acosta-Michlik, P. Reidsma, M.J. Metzger, M.D.A. Rounsevell, R. Leemans and **D. Schröter** 2007. A scenario-driven spatially explicit model of adaptive capacity to global change in Europe. To be submitted to *Global Environmental Change*. In preparation.

### Reports, CD-ROMs, films and non-peer-reviewed articles

De la Vega-Leinert, A.C. and **D. Schröter** 2008. *Stakeholder dialogue as a communication and negotiation tool in scientific inquiry*. In A. Carvalho (ed.) *Communicating Climate Change: Discourses, Mediations and Perceptions* (Conference Proceedings), Universidade do Minho, Braga, Portugal. In press.

Patt A.G. and **D. Schröter** 2007. *Perceptions of Environmental Risk in Mozambique: Implications for the Success of Adaptation and Coping Strategies*. Published by the Research Support Team, World Bank. Policy Research Working Paper 4417, pp. 23.

Zebisch M., T. Grothmann, **D. Schröter**, C. Haße, U. Fritsch, W. Cramer 2005. *Climate Change in Germany – Vulnerability and Adaptation of climate sensitive Sectors (Klimawandel in Deutschland – Vulnerabilität und Anpassungsstrategien klimasensitiver Systeme)*. Report commissioned by the Federal Environmental Agency, Germany (UFOPLAN 201 41 253), Potsdam Institute of Climate Impact Research, Potsdam, Germany, pp. 205. Available in English ([www.umweltbundesamt.org/fpdf-l/2974.pdf](http://www.umweltbundesamt.org/fpdf-l/2974.pdf)) and German ([www.umweltbundesamt.org/fpdf-l/2947.pdf](http://www.umweltbundesamt.org/fpdf-l/2947.pdf)).

Metzger M.J., R. Leemans, **D. Schröter**, W. Cramer and the ATEAM consortium 2004. *The ATEAM vulnerability mapping tool*. Quantitative Approaches in Systems Analysis No. 27, CD-ROM publication, Office C.T. de Wit Graduate School for Production Ecology & Resource Conservation (PE&RC), Wageningen, The Netherlands, 2004. Available at [www.pik-potsdam.de/ateam](http://www.pik-potsdam.de/ateam).

Patt A.G., **D. Schröter**, J. Jaeger 2004. *Talking about the Weather: A Seasonal Climate Forecasting Workshop in Zimbabwe*. A seven-minute video production documenting the use of seasonal climate forecasts by subsistence farmers for use by the National Oceanic and Atmospheric Administration's Human Dimensions of Global Environmental Change Program. Produced by Anthony Patt, filmed by Dagmar

Schröter and Julia Jaeger.

**Schröter D.** et al. 2004. *The ATEAM final report 2004 – Detailed report related to overall project duration*. Advanced Terrestrial Ecosystem Analysis and Modelling, a project funded under the 5<sup>th</sup> framework Programme of the European Union, pp. 139. Available at [www.pik-potsdam.de/ateam](http://www.pik-potsdam.de/ateam).

**Schröter D.** et al. 2004. *The ATEAM annual report 2004*. Advanced Terrestrial Ecosystem Analysis and Modelling, a project funded under the 5<sup>th</sup> framework Programme of the European Union, pp. 36.

**Schröter D.** and M. Zebisch 2004. *Vulnerabilität klimasensitiver Systeme in Deutschland – Empfehlungen zum Schutz und zur Anpassung durch den Klimawandel gefährdeter Systeme in Deutschland*. With contributions from W. Cramer, H.-M. Füßel and T. Grothmann. Intermediate report of a Research and Development Project funded by the Federal Environmental Agency, Germany (UFOPLAN 201 41 253), pp.34.

**Schröter D.**, C. Polsky and A.G. Patt 2004. *Assessing Vulnerabilities To The Effects Of Global Change: An Eight-Step Approach*. February 2004. Potsdam Institute for Climate Impact Research, Potsdam, Germany, Environmental Vulnerability Assessment (EVA) Working Paper No. 7, pp. 21.

Metzger M.J. and **D. Schröter** 2004. *Concept for a spatially explicit and quantitative vulnerability assessment of Europe*. January 2004. Potsdam Institute for Climate Impact Research, Potsdam, Germany, Environmental Vulnerability Assessment (EVA) Working Paper No. 6, pp. 29.

De la Vega-Leinert A.C. and **D. Schröter** 2005. *The 3<sup>rd</sup> ATEAM stakeholder dialogue workshop – Vulnerability of human sectors to global changes*. Potsdam, Germany, May 3-4 2004, pp. 59.

**Schröter D.** 2004. *The ATEAM-Synthesis-Group meeting (March 29, 2004) and the third and final annual ATEAM meeting (March 30-31, 2004)*, Annot, France, pp. 24.

**Schröter D.** 2003. *The ATEAM annual report 2003*. Advanced Terrestrial Ecosystem Analysis and Modelling, a project funded under the 5<sup>th</sup> framework Programme of the European Union, pp. 76.

**Schröter D.**, L. Acosta-Michlik, P. Reidsma, M. Metzger, and R. J. T. Klein. 2003. *Modelling the vulnerability of eco-social systems to global change: Human adaptive capacity to changes in ecosystem service provision*. Paper presented at the *Open Meeting of the Human Dimensions of Global Environmental Change Research Community*, Montreal, Canada. Available online <http://sedac.ciesin.columbia.edu/openmtg/>.

**Schröter D.**, S. Zaehle, S. Schaphoff, W. Lucht, and W. Cramer. 2003. *Modelling global change effects on vegetation and exploring our vulnerability*. In R. E. Green, M. Harley, L. Miles, J. Scharlemann, A. Watkinson, and O. Watts (eds.); *Global Climate Change and Biodiversity Conference Report*, Tyndall Centre for Climate Change Research, University of East Anglia, April 8-10, 2003, Norwich, UK, pp. 4-6.

**Schröter D.** 2003. *The second annual ATEAM meeting*, May 5-8, 2003, Evora, Portugal, pp. 45.

**Schröter D.** and M. Rounsevell. 2003. *Report of the Adaptive Capacity Meeting*, Wageningen, Netherlands, April 24-25, 2003, pp.5.

De la Vega-Leinert A.C., **D. Schröter**, J. Pluimers and U. Fritsch. 2003. *The 2<sup>nd</sup> ATEAM stakeholder dialogue workshop*. Potsdam Institute for Climate Impact Research, Sept 11-12, 2002, Potsdam, Germany, pp. 58.

**Schröter D.** 2002. *The ATEAM annual report 2002*. Advanced Terrestrial Ecosystem Analysis and Modelling, a project funded under the 5<sup>th</sup> framework Programme of the European Union, pp. 52.

**Schröter D.**, M. Metzger and Miguel Araujo 2002. *Report of the ATEAM Adaptive Capacity and Vulnerability Meeting*. Nov 21-22, 2002, Louvain-la-Neuve, Belgium, pp. 6.

**Schröter D.** 2002. *The first annual ATEAM meeting*. April 15-17, 2002, Barcelona, Spain, pp. 22.

Zierl B. and **D. Schröter** 2002. *Mountain Stakeholder Workshop*. Nov 4-5, 2002, Kappel am Albis, Switzerland, pp. 12.

Metzger M.J., **D. Schröter**, R. Leemans, S. Zaehle, M. Erhard, R.J.T. Klein, W. Cramer, A.C. De la Vega, U. Fritsch 2002. *Mapping vulnerability within ATEAM*. July 2002, Potsdam, Germany, 15 pp.

Metzger M.J. and **D. Schröter** 2002. *ATEAM's vulnerability assessment*. A flyer for the 2<sup>nd</sup> Stakeholder Workshop.

Zaehle S., M. Erhard, **D. Schröter**, M. Sykes, S. Sitch, C. Prentice, B. Smith 2002. *ATEAM sector: Carbon Storage and Energy*. A flyer for the 2<sup>nd</sup> Stakeholder Workshop.

**Schröter D.**, B. Krukenberg, A.C. de la Vega-Leinert, S. Lavorel, S. Sabaté, W. Cramer 2002. *The ATEAM project. Das ATEAM Projekt. Le project ATEAM. El proyecto ATEAM*. Project flyer for stakeholders and general public. Flyers in English, German, French and Spanish.

**Schröter D.** 2001. *The ATEAM annual report 2001*. Advanced Terrestrial Ecosystem Analysis and Modelling, a project funded under the 5<sup>th</sup> framework Programme of the European Union, pp. 40.

**Schröter D.** and Anne C. de la Vega-Leinert, 2001. *ATEAM report: Initiating the ATEAM Dialogue*. Oct 21-24, 2001, L'Isle-sur-la-Sorgue, France, pp. 20.

### Invited presentations

**Schröter D.** 2007. Ecological Services and Global Change – Exploring the Environmental Dimension of Human Vulnerability. Introductory talk for the interviewing process to the *Full Professorship (W2) Ecological Services*, Faculty of Biology, Chemistry and Geosciences, Bayreuth University, Bayreuth Nov 07, Germany.

**Schröter D.** 2007. Human activity, global change and its impacts on ecosystems and biodiversity. *Biodiversity - Climate Interactions: adaptation, mitigation and human livelihoods*, A Royal Society and the UK Global Environment Change Committee Biodiversity Sub-Committee workshop, to be held at the Royal Society, London 12-13 June, London, UK.

**Schröter D.** 2005. The environmental dimension of human vulnerability – Results from Europe, thoughts on Haiti. *Department Seminar*, Department of Geography, Clark University, April 15, Worcester, USA.

**Schröter D.** 2005. Potential Impacts of Global Change in Europe. *Earth & Environmental Sciences Seminar Series*, Lehigh University, Feb 10, Bethlehem, USA.

**Schröter D.** 2005. Microscopic animals in soil, regional fluxes and global climate. *Earth & Environmental Sciences Seminar Series*, Lehigh University, Feb 12, Bethlehem, USA.

**Schröter D.** 2004. Impacts of and vulnerability to climate change in Europe. *Second International Conference on Climate Impacts Assessment (SICCIA)*, joint event of the NOAA Office of Global Programs, the Climate Impacts Group (University of Washington), and the US National Science Foundation, June 28-July 2, Grainau, Germany.

**Schröter D.** 2004. Global change vulnerability – assessing the European human-environment system. Twentieth sessions of the subsidiary bodies (SB 20), United Nations Framework Convention on Climate Change (UNFCCC), *Workshop on Scientific, Technical and Socio-Economic Aspects of Impacts of, Vulnerability and Adaptation to Climate Change*, June 16-25, Hotel Maritim, Bonn, Germany.  
<http://unfccc.int/sessions/workshop/180604/present.html>

**Schröter D.** and M.J. Metzger 2004. Global change impacts on ecosystem services and the vulnerability of the human-environment system – The European assessment ATEAM. *Workshop on Global Change and the Future of Ecosystems in Europe*, sponsored by AVEC (EU-Concerted Action *Integrated Assessment of*

*Vulnerable Ecosystems under Global Change*), EEA (*The European Environment Agency*) and MA (*The Millennium Ecosystem Assessment*), June 10-11, 2004, European Environment Agency, Copenhagen, Denmark.

**Schröter D.** 2004. Vulnerability assessment – analysing the human-environment system in the face of global environmental change. Environmental Science Section (ESS) Kalmar University Symposium, *Climate risk and vulnerability – exploring conditions for ecological and societal adaptation*, June 7-9, 2004, Kalmar, Sweden.

**Schröter D.** and W. Cramer 2004. Environmental impacts of global change. British Ecological Society/European Ecological Federation Annual Symposium, *Ecology without frontiers: Environmental challenges across Europe*, Exeter University, April 5-7 2004, Exeter, UK.

**Schröter D.** 2003. Climate change impacts and vulnerability. 3<sup>rd</sup> Meeting of Environmental Policy Departments of EU-Member States' Foreign Ministries *Confidence Building Measures by the EU on International Climate Change*. Deutsches Auswärtiges Amt (German Foreign Ministry), May 15-16, 2003, Berlin, Germany.

**Schröter D.**, S. Zaehle, S. Schaphoff, W. Lucht and W. Cramer 2003. Modelling global change effects on vegetation and exploring our vulnerability. *Global Climate Change and Biodiversity Conference*. Tyndall Centre for Climate Change Research, University of East Anglia, April 8-10, 2003, Norwich, UK.

**Schröter D.**, M. Metzger, R. Leemans and W. Cramer 2003. ATEAM: Europaweite Kartierung von Vulnerabilität, bezogen auf Ökosystemfunktionen. *Colloquium for the Arid Climate, Adaptation and Cultural Innovation in Africa (ACACIA) special research theme project of the German Science Foundation*, University of Cologne, May 27, 2003, Köln, Germany.

**Schröter D.**, M. Metzger, R. Leemans and W. Cramer 2002. The concept of vulnerability and a vulnerability assessment in Europe. *Workshop of the EU project INTEGRATION*, Nov 25-26, 2002, Potsdam, Germany.

**Schröter D.** and W. Cramer 2002. Assessing vulnerability in Europe: a stakeholder guided approach based on a framework of ecosystem models. *Vulnerability Methods and Models Workshop*, John F. Kennedy School of Government, Harvard University, Oct 16-18, 2002, Boston, USA.

**Schröter D.** and W. Cramer 2002. Assessing vulnerability in Europe: the ATEAM project. *National Oceanic and Atmospheric Administration (NOAA) meeting on modelling vulnerability and adaptation*, Oct 3, 2002, Washington DC, USA.

**Schröter D.**, W. Lucht, T. Rixecker, and W. Cramer 2002. Forest Diversity and Functioning of the Earth System: Evidence from a Global Dynamic Vegetation Model. *European Science Foundation (ESF) Workshop: The Functional Significance of Forest Diversity*, June 13-15, 2002, Weimar, Germany.

**Schröter D.** and W. Cramer, 2002. ATEAM – A European vulnerability assessment and its links to the Millennium Ecosystem Assessment. *Working Meeting at the European Environment Agency (EEA)*, May 27, 2002, Copenhagen, Denmark.

**Schröter D.** and W. Cramer, 2001. Assessing vulnerability of European ecosystem services. *Methods and Models of Vulnerability Research, Analysis and Assessment, Workshop at the First Sustainability Days*, Potsdam Institute for Climate Impact Research, Sept 28–30, 2001, Potsdam, Germany.

**Schröter D.** 2000. Soil ecology – scaling up from local to global, linking diversity to function. *Working Meeting at the Centre for Hydrology (CEH)*, July 2000, Merlewood, UK.

## Conferences and Workshops

**Schröter D.** 2007. The CIRCLE Research Programme – Potential Regional and Pan-European Topics. *CIRCLE (Climate Impact Research Coordination for a Larger Europe) Annual Progress Meeting*. Toulouse,

Oct 24-26, France.

*The Role of Mountains in a Climate of Change – Growing conflicts or growing consensus about the use of resources?* Workshop Series 2048, sponsored by the Lebensministerium Austria, May 24-26, 2007, Obergurgl, Austria.

**Schröter D.** 2007. Towards a Topical CIRCLE Work Programme. *CIRCLE (Climate Impact Research Coordination for a Larger Europe) Executive Board Meeting*, Bonn, April 17-18, Germany.

*Global Environmental Change and Biodiversity*, May 2-4, 2005, Workshop sponsored and organised by DIVERSITAS, The Tyndall centre, TERACC and QUEST, Paris (Dourdan), France.

**Schröter D.** 2005. The environmental dimension of human vulnerability – Results from Europe, thoughts on Haiti. *Science, Environment and Development Group Seminar*, Center for International Development, Harvard University, May 10, Cambridge, USA.

*Machineries of Representation*. April 8-9, 2005. Workshop organised by The Science, Technology and Society Program at Harvard University's Kennedy School of Government, Cambridge, USA.

**Schröter D.** 2004. *Adaptation to global change*. 3<sup>rd</sup> dialogue workshop of the Federal Environmental Agency on climate impacts in Germany, 31 Oct – 2 Nov, 2004, International Academy for Nature Conservation, Island of Vilm, Germany.

**Schröter D.** 2004. Ecological sciences in vulnerability assessment – Introduction to the ATEAM/AVEC concept. *Effects of land abandonment and global change on plant and animal communities*, AVEC (Integrated Assessment of Vulnerable Ecosystems under Global Change) Workshop, 11-13 Oct, 2004, Capri, Italy.

Workshops on *El Niño, Climate Prediction, and Farming Decisions*, September 6-7, 2004, organized by Anthony Patt (Boston University, USA) and Chiedza Gwath (University of Zimbabwe), Mhakwe and Tiya, Zimbabwe.

**Schröter D.** & M.J. Metzger, 2004. Vulnerability mapping of Europe. *Environmental Vulnerability Assessment for Policy and Decision-Making – The final EVA ToPIK workshop*. May 17-18, 2004, Potsdam University, Neues Palais, Potsdam, Germany. Presentation.

**Schröter D.** et al. 2004. ATEAM's main conclusions on sectoral impacts under plausible multi-scenarios of global change. *Third ATEAM stakeholder dialogue: Vulnerability of European sectors to global changes*. May 3-4, 2004, Potsdam, Germany. Presentation.

Zaehle S., A. Bondeau, P. Smith, S. Sitch, **D. Schröter**, M. Erhard and W. Cramer 2004. Europe's terrestrial carbon sink may last until 2050 and then decline. *European Geosciences Union, 1<sup>st</sup> General Assembly*, April 25 – 30, 2004, Nice, France. Presentation.

**Schröter D.**, M. Metzger, S. Zaehle, W. Cramer and the ATEAM consortium, 2003. A European Vulnerability Assessment. *First Land Open Science Conference of the LAND project*, Dec 2 –5, 2003, Morelia, Mexico. Poster presentation.

**Schröter D.**, P.C. De Ruiter and V. Wolters 2003. Mineralisation in the decomposer food webs of a European forest transect: The impact of nitrogen deposition. *Food Web Symposium 2003*, Nov 13-16, 2003, Schloss Rauischholzhausen, Gießen, Germany. Presentation.

**Schröter D.**, L. Acosta-Michlik, P. Reidsma, M.J. Metzger and R.J.T. Klein 2003. Modelling the vulnerability of eco-social systems to global change: Human adaptive capacity to changes in ecosystem service provision. *Open Meeting of the Human Dimensions of Global Environmental Change Research Community*, Oct 16-18, 2003, Montreal, Canada. Presentation.

Massachusetts Institute for Technology (MIT) Global Change Forum XXI, *Climate uncertainty, Long-Term*

*Goals, and Current Mitigation Effort*, Oct 8-10, 2003, Boston, Massachusetts, USA.

*A view into PIK's future – Scientific perspectives in the area around Berlin and Brandenburg*. 2<sup>nd</sup> ToPIK workshop, Sept 11-12, 2003, Potsdam, Germany. Reviewing of research sketches.

**Schröter D.**, L. Brussaard, G. De Deyn, K. Poveda, V.K. Brown, M. Berg, D. Wardle, J. Moore, D.H. Wall 2003. Modelling above- and belowground interactions in a changing world. *Biosphere Interactions in the Earth System - BIS Science Day*, June 5, 2003, Potsdam, Germany. Presentation.

**Schröter D.** and M. Metzger 2003. The concept of vulnerability and a vulnerability assessment in Europe. *Environmental Vulnerability Assessment (EVA)-seminar series*, Potsdam Institute of Climate Impact Research, Jan 14, 2003, Potsdam, Germany. Presentation.

**Schröter D.** and M. Erhard 2002. Nitrogen deposition scenarios and ideas how to implement them in our models. *The 1<sup>st</sup> annual ATEAM meeting*, April 15-17, 2002, Barcelona, Spain. Presentation.

**Schröter D.** 2002. An Introduction to ATEAM's Ecosystem Modelling. *2<sup>nd</sup> ATEAM stakeholder workshop*, Sept 11-12, 2002, Potsdam, Germany. Presentation.

Rapporteur of the Working Group "How to model above- belowground interactions in a changing world", chaired by Lijbert Brussaard. *European Science Foundation (ESF) Exploratory Workshop: Trophic Interactions in a Changing World*, April 3-7, 2002, Texel, The Netherlands. Presentation.

Klein, R.J.T. and **D. Schröter** 2002. the Environmental Vulnerability Assessment project. *The Potsdam Institute for Climate Impact Research ToPIK Days*, Dec 17-18, 2002, Potsdam, Germany. Presentation.

**Schröter D.** and W. Cramer 2002. The ATEAM project: a stakeholder guided vulnerability assessment using ecosystem models. *ATEAM - Mountain Stakeholder Workshop*, Nov 4-5, 2002, Kappel am Albis, Switzerland. Presentation.

**Schröter D.** 2002. The ATEAM project: Results form the second stakeholder workshop. *ATEAM - Mountain Stakeholder Workshop*, Nov 4-5, 2002, Kappel am Albis, Switzerland. Presentation.

*The Third Lund Potsdam Jena Dynamic Global Vegetation Model (LPJ) Development Workshop*, May 7-11, 2002, Durbuy, Belgium.

**Schröter D.** 2002. The ATEAM procect: A stakeholder guided vulnerability assessment. *Silvicultural Response Strategies to Climatic Change in Management of European Forests (SilviStrat) annual meeting*, April 26-27, 2002, Kloster Zinna, Germany. Presentation.

*European Research 2002 - The European Research Area and the Framework Programme*, Nov 11-13, 2002, Brussels, Belgium.

**Schröter D.** and W. Cramer 2002. The ATEAM project – Advanced Terrestrial Ecosystem Analysis and Modelling. *Global change research and Eastern European candidate countries, an introductory meeting with Polish colleagues*, June 3-4, 2002, Poznan, Poland. Presentation.

*The Second Lund Potsdam Jena Dynamic Global Vegetation Model (LPJ) Development Workshop*, April, 8-12, 2001, Durbuy, Belgium.

**Schröter D.** 2001. Definitions of vulnerability. Rapporteur and chair of discussion group on environmental vulnerability assessment. *The Potsdam Institute for Climate Impact Research ToPIK days 2001*, Dec 19-20, 2001, Potsdam, Germany. Presentation.

**Schröter D.** and W. Cramer 2001. The ATEAM project: ecosystem modelling and vulnerability assessment. *Global Change and Water Resources in the Mediterranean Region Advanced Study Course*, Research in Global Change in the Mediterranean: A Regional Network (RICAMARE) project. An ENRICH and START activity, University of Toledo, Dec 2-8, 2001, Toledo, Spain. Presentation.

**Schröter D.**, V. Wolters, P.C. De Ruiter. 2001. Carbon Flux in the Decomposer Systems of Forests along a European North-South-Transect. *Challenges of a Changing Earth – IGBP Global Change Open Science Conference*, July 10-13 Amsterdam, The Netherlands, P.1.0.016. Poster presentation.

**Schröter D.** 2001. Introduction to the ATEAM Vulnerability Assessment. *Initiating the ATEAM Dialogue: 1<sup>st</sup> ATEAM Stakeholder Workshop*, Oct 22-24 2001, Isle-sur-la-Sorgue, France. Presentation.

**Schröter D.** 2001. Europe's Ecosystems are Capital Assets. *Initiating the ATEAM Dialogue: 1<sup>st</sup> ATEAM Stakeholder Workshop*, Oct 22-24 2001, Isle-sur-la-Sorgue, France. Poster presentation.

**Schröter D.** 2001. Global Change, Ecosystem Services and People. *Initiating the ATEAM Dialogue: 1<sup>st</sup> ATEAM Stakeholder Workshop*, Oct 22-24 2001, Isle-sur-la-Sorgue, France. Poster presentation.

Taylor, A.R., A. Pflug, **D. Schröter** and V. Wolters. 2000. Colonisation of spruce litter: response of different decomposer communities to experimental alterations in moisture availability. *XIII International Colloquium on Soil Zoology*, Aug 14-18, Ceske Budejovice, Czech Republic. Poster presentation.

**Schröter D.**, A. Pflug, A.R. Taylor and V. Wolters. 1999. Testate amoebae in coniferous forests along a European North-South-transect: diversity and food web interaction. *3<sup>rd</sup> European Congress of Protistology*, July 26-30, Helsingør, Denmark. Presentation.

**Schröter D.** 1999. Modellierung des C- und N-Flusses durch das Zersetzungsnahrungsnetz in Waldböden. *Animal Ecology Seminar*, Institute for Animal Ecology and Zoology, Gießen University, March 10, 1999, Gießen, Germany. Presentation.

Thematic workshop: *Ecosystem Functioning and Management under Multiple Stresses and Extreme Events. Terrestrial Ecosystem Research Initiative Concerted Action (TERICA) workshop*. Feb 1999, Schloss Rauschholzhausen, Germany.

**Schröter D.**, A. Hülsmann, A. Pflug and V. Wolters. 1998. Climate effects on soil biota of coniferous forests: a transect approach. *The Earth's Changing Land - GCTE-LUCC Open Science Conference on Global Change*, March 14-18, Barcelona, Spain, 208-209. Poster presentation.

**Schröter D.** 1998. Modelling C- and N-Fluxes through the decomposer food web in forest soils. *Advanced Intensive Study Course on Environmental Modelling*, University of Würzburg, Oct 4-9, 1998, Fabrikschleichach, Germany. Presentation.

Pflug, A., **D. Schröter**, A. Hülsmann and V. Wolters. 1998. Klimaabhängige Veränderungen der Collembolenfauna entlang eines europäischen Transekts. *28. Jahrestagung der Gesellschaft für Ökologie*, Sept 7-12 Ulm, Germany. Poster presentation.

**Schröter D.**, A. Pflug, A. Hülsmann and V. Wolters 1998. Diversity and role of the soil fauna. *CANIF Final Project Meeting*, Aug 1998, Schloss Thurnau, Germany. Presentation.

**Schröter D.**, A. Pflug, A. Hülsmann and V. Wolters 1998. Decomposition, moisture stress and community structure in forest litter: two litter-bag experiments and a microcosm study. *GLOBIS Final Project Meeting*, Feb 1998, Thessaloniki, Greece. Presentation.

**Schröter D.** 1997. Food web modeling: 'Lotka-Volterra feeding' or 'deAngelis-feeding' in a dynamic approach with three trophic levels. *Intensive Study Course Modelling and Simulation for Ecology and Species Protection*, Oct 5-11, Giardino Futuro, Pesina, Italy. Presentation.

**Schröter D.** 1997. Decomposition under climatic extremes: a litterbag experiment with decomposer communities of different complexities. *Animal Ecology Seminar*, Institute for Animal Ecology and Zoology, Gießen University, Feb 28, 1997, Gießen, Germany. Presentation.

Thematic Workshop: *Functional implications of soil biodiversity. Terrestrial Ecosystem Research Initiative Concerted Action (TERICA) workshop*. Sept 14-20, 1996, Schloß Rauschholzhausen, Germany.

*Selected methods to measure biological activity of soils: bait-traps, mini-containers, littebags. Soil Ecology Workshop*, Sept 26-27, 1996, Johannes-Gutenberg-University, Mainz, Germany.

**Schröter D.** 1996 Charakterisierung von Lebensgemeinschaften beschalter Amöben (Protozoa) in Böden von Fichtenforsten. *Animal Ecology Seminar*, Institute for Animal Ecology and Zoology, Gießen University, June 26, 1996, Gießen, Germany. Presentation.

### **Selected organised and co-organised workshops**

*Climate Change – Global Risks, Challenges and Decisions*, co-chair with Tom Downing of the Session: Approaches to Measuring and Enhancing Adaptive Capacities. University of Copenhagen in cooperation with the International Alliance of Research Universities (IARU), Copenhagen 2009, 10-12 March.

*CIRCLE (Climate Impact Research Coordination for a Larger Europe) Annual Progress Meeting*. Toulouse, Oct 24-26, France.

*Third ATEAM stakeholder dialogue: Vulnerability of European sectors to global changes*. May 3-4, 2004, Potsdam, Germany.

*The final annual ATEAM meeting*. March 29-31, 2004, Annot, France.

*The 2<sup>nd</sup> annual ATEAM meeting*. May 5-8, 2003, Evora, Portugal.

*Adaptive Capacity Workshop – Towards a quantitative indicator of adaptive capacity*. Wageningen, Netherlands, April 24-25, 2003.

*Vulnerability Methods and Models Workshop*. Oct 16-18, 2002, John F. Kennedy School of Government, Harvard University, Boston, USA.

*The 2<sup>nd</sup> ATEAM stakeholder workshop*. Sept 11-12, 2002, Potsdam, Germany.

*Vulnerability*. Panel discussion with William C. Clark, Sheila Jasanoff, Hans-Joachim Schellnhuber and Carlo Jaeger, July 15, 2002, Potsdam Institute for Climate Impact Research, Potsdam, Germany.

*The 1<sup>st</sup> annual ATEAM meeting*. April 15-17, 2002, Barcelona, Spain.

*Methods and Models of Vulnerability Research, Analysis and Assessment, Workshop at the First Sustainability Days*. Sept 28–30, 2001, Potsdam Institute for Climate Impact Research, Potsdam, Germany.

*Initiating the ATEAM Dialogue: 1<sup>st</sup> ATEAM Stakeholder Workshop*. Oct 22-24, 2001, Isle-sur-la-Sorgue, France.

*Ecosystem Functioning and Management under Multiple Stresses and Extreme Events*. Terrestrial Ecosystem Research Initiative Concerted Action (TERICA) workshop, Feb 4-6, 1998, Gießen University, Germany.

*Effects of Global Change on Biodiversity and Ecological Complexity*. A joint workshop of IGBP-GCTE, EU-TERI, and DIVERSITAS, Oct 1997, Schloß Rauischholzhausen, Germany.

### **External funding**

Co-author of *Biased risk perception as a barrier to successful climate adaptation in Africa*, a research project with field work conducted in Mozambique, funded by the World Bank, life time 2006-2007, \$ 35,000.

Co-author of *ATEAM – Advanced Terrestrial Ecosystem Analysis and Modelling*, a research, technological development and demonstration (RTD) project funded by the 5<sup>th</sup> Framework Programme of the European Commission, *Energy, Environment and Sustainable Development*, life time 2001 - 2004, € 3,600,000.

Co-author of *AVEC – Integrated Assessment of Vulnerable Ecosystems under Global Change*, a Concerted Action funded by the 5<sup>th</sup> Framework Programme of the European Commission, *Energy, Environment and*

*Sustainable Development*; life time 2001 - 2005, € 656,600.

*Developing of Partnerships for the Integrated Assessment of Climatic Change*, an exchange project funded by the German Academic Exchange Service (DAAD) and the British Council, Academic Research Collaboration Program, life time 2002-2003, € 5,100.

Co-author of *Vulnerability of climate-sensitive systems in Germany – Recommendations for protection and adaptation (Vulnerabilität klimasensitiver Systeme in Deutschland – Empfehlungen zum Schutz und zur Anpassung durch den Klimawandel gefährdeter Systeme in Deutschland)*. Funded by the Federal Environmental Agency, Germany, life time 2003-2005, € 149,800.

## Teaching experience

### Theses supervision and lectures

Co-supervision of PhD thesis by Sönke Zaehle, Sept 2001 – June 05, University of Potsdam, Germany: *Process-based simulation of the European terrestrial biosphere — An evaluation of present-day and future terrestrial carbon balance estimates and their uncertainty*.

Co-supervision of PhD thesis by Marc J. Metzger, May 2002 – August 05, Wageningen University, The Netherlands: *Spatially explicit quantification of European vulnerability to global change based on scenarios of ecosystem service provision and a new environmental classification*.

Advanced students' seminar: *Vulnerability of the human-environment system to global change*. Two hours a week, for advanced undergraduates of biology and geo-ecology, summer semester 2004, Potsdam University.

Introductory lecture (with W. Cramer): *Dynamics of the Biosphere*. Two hours a week, for undergraduates of biology and geo-ecology, winter semester 2003, Potsdam University.

Lecture and practical study (with V. Wolters): *Soil ecology, eco-physiology, production biology*. Four hours a week, for advanced undergraduates of biology, summer semesters 1998, 1999 and 2000. Gießen University, Germany.

Lecture and practical study (with P. Schmidt): *Developmental biology, morphology and anatomy for medical students*. Three hours a week, for students of human medicine, winter semesters 1993 and 1995. Technical University, Aachen, Germany.

### Summer Schools

Co-convener, lecturer and chief tutor at the *International Summer School 2007: Trends in Biodiversity: European Ecosystems and Policy (ALTERNET)*. Two full weeks, for graduates and PhD students of natural and social sciences, Sept 1-13, Peyresq, France. Lectures: (1) *Ecological Services and Vulnerability Assessment*. (2) *The environmental dimension of human vulnerability – Results from Europe (and elsewhere)*.

Co-convener, lecturer and chief tutor at the *International Summer School 2006: Biodiversity and Ecosystem Services: Ecological and Socio-Economic Aspects (ALTERNET)*. Two full weeks, for graduates and PhD students of natural and social sciences, Aug 27-Sept 8, Peyresq, France. Lectures: (1) *Introduction to Vulnerability Assessment*. (2) *The environmental dimension of human vulnerability – Results from Europe*.

Invited lecturer and chief tutor at the *International Summer School 2005: Integrated Assessment of Vulnerable Ecosystems under Global Change (AVEC)*. Two full weeks, for graduates and PhD students of natural and social sciences, Sept 17-Oct 2, Peyresq, France. Lectures: (1) *Introduction to the vulnerability concept*. (2) *Comparative vulnerability analyses of historical cases*.

Invited lecturer and chief tutor at the *International Summer School 2003: Integrated Assessment of*

*Vulnerable Ecosystems under Global Change (AVEC)*. Two full weeks, for graduates and PhD students of natural and social sciences, Sept 14-27, Peyresq, France. Lectures: (1) *Introduction to the vulnerability concept*. (2) *Global Environmental change and Ecosystem Services*.

### **Lectures to the broader public**

Schröter D. 2003. Biology at PIK – Vulnerability of the ecosocial system. Lecture to the German consortium of the *International Biology Olympiad* consisting of teachers and former winners, Potsdam Institute for Climate Impact Research, Nov 10 2003, Potsdam, Germany.

Schröter D. 2002. *Die Vulnerabilität von Ökosystemen (Vulnerability of ecosystems)*. Students' day, organised by local schools of Brandenburg, Potsdam Institute for Climate Impact Research, May 3, 2002, Potsdam, Germany.

Schröter D. 2002. Mikroskopisch kleine Tiere, globale Stoffflüsse und das Klima (Microscopic animals, global fluxes and the climate). Lecture at the *Girls' day, organised by LeaNet (Schools on the web), funded by the Federal Ministry for Education and Research, Germany*, Potsdam Institute for Climate Impact Research, July 11, 2002, Potsdam, Germany.

*Lange Nacht der Wissenschaften (Science Night)*. Potsdam Institute for Climate Impact Research, June 14, 2003. Phenomena of Climate Change. Dialogue between scientists and the public.

### **Editing and reviewing**

Co-editor with A.G. Patt, R.J.T.Klein, and A.C. De la Vega-Leinert of the book *Environmental Vulnerability Assessment for Policy and Decision-Making*, in print with Earthscan, 2008.

Referee of articles for various journals, among which: • *Science* • *Proceedings of the Royal Society of London, Series B* • *Global Change Biology* • *Global Environmental Change* • *Climatic Change* • *OIKOS* • *Ecosystems* • *Ecology Letters* • *Basic and Applied Ecology* • *European Journal of Soil Biology*.

Invited reviewer of the Intergovernmental Panel on Climate Change (IPCC) Fourth Assessment Report, 2006.

Invited reviewer of proposals for research programmes to the *Swedish Environmental Protection Agency (SEPA)*, within the theme "Adaptation to Climate Change", 2006.

Invited reviewer of post-doc proposals for the *Swiss National Centre of Competence in Research NCCR North-South* ([www.nccr-north-south.unibe.ch](http://www.nccr-north-south.unibe.ch)), 2005.

Invited reviewer of the 2<sup>nd</sup> Draft 2004 of the Millennium Ecosystem Assessment Report, ([www.millenniumassessment.org](http://www.millenniumassessment.org)).

Referee of textbook proposal and manuscript *An introduction to Environmental Modelling* for Oxford University Press.

### **Languages**

German: native speaker.

English: fluently spoken and written (bilingual family).

French: good working knowledge.

Dutch: good working knowledge.

Qualification in Latin.

### **Additional interests**

Since 2007 voluntary visiting service for the elderly, with the Austrian *Hilfswerk*.

Since 1994 member of *amnesty international*.

Since 1995 member of the *German Alpine Association*, since 2007 member of the *Austrian Alpine Association*.

2002-04 Vice-chair of the *workers' council* of the Potsdam Institute for Climate Impact Research.

1995-96 *Instructor of university sports* in Aachen, Germany: fitness, aerobic and step-aerobic.

Sports (outdoors on water and land), yoga, reading, writing, music, cooking.

## References

**Wolfgang Cramer** (Head of Department), Global Change and Natural Systems, Potsdam Institute for Climate Impact Research, Telegrafenberg, P.O. Box 60 12 03, D-14412 Potsdam, Germany.

**Carlo Jaeger** (Head of Department), Global Change and Social Systems, Potsdam Institute for Climate Impact Research, Telegrafenberg, P.O. Box 60 12 03, D-14412 Potsdam, Germany.

**Rik Leemans** (Head of Department), Environmental Systems Analysis Group, Wageningen University, P.O. Box 8080, 6700 DD Wageningen, The Netherlands.

**William C. Clark** (Harvey Brooks Professor of International Science, Public Policy and Human Development), Belfer Center for Science and International Affairs, Kennedy School of Government, Harvard University, 79 John F. Kennedy Street, Cambridge, MA 02138, USA.

**Hans Joachim Schellnhuber** (founding Director of the Potsdam Institute for Climate Impact Research and Director of the Tyndall Centre), Tyndall Centre for Climate Change Research, School of Environmental Sciences, University of East Anglia, Norwich, NR4 7TJ, UK.

**Volkmar Wolters** (Head of Department), Department of Animal Ecology, Interdisciplinary Research Center for Environmental Protection (IFZ), Heinrich-Buff-Ring 26-32, D-35392 Gießen, Germany.