

APPENDIX A

Participant List and Biographies

*WOT = *Workshop Organizing Team*

Christoph Bals

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Christoph Bals is the executive director policy of the NGO Germanwatch, where he is a founding member (1991). He was among the initiators of European Business Council for Sustainable Energy, the pro-Kyoto-campaign "e-mission55", and the initiative for climate conscious flying "atmosfair". He has been on the board of the "Foundation for Sustainability" since 1998. He is one of the three NGO-representatives in the German government's working group on emission trading (AGE) since 1998; and a member of the advisory group of most ambitious German green investment index (NAI); in 2003 and 2004 he was in the National Advisory Committee for the Renewables 2004. Bals headed different successful campaigns (Rio Konkret, Climate Responsibility Campaign). Bals studied theology (in which he received his diploma), economics and philosophy in Munich, Belfast, Erfurt, and Bamberg.



Laurens Bouwer (*WOT)

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Laurens Bouwer has been employed at the Institute for Environmental Studies since 1999. His work at the institute covers many aspects of global change, but in particular the relationship between climate change and water resources management. He has been working on the hydrological impacts of climate variability and climate change on river basins. He was a lead author for a chapter on the financial services sector in the Third Assessment Report of the Intergovernmental Panel on Climate Change (IPCC), and he is an expert reviewer for the IPCC Fourth Assessment Report. He was involved in the Dialogue on Water and Climate for subjects relating to insurance and risk management in the water sector. Recently, Laurens started working on a PhD that deals with the impacts of climate change on disaster losses.



Rudolf Brázdil

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Rudolf Brázdil is a professor of physical geography in the Masaryk University of Brno, the Czech Republic. He is doing research in instrumental and historical climatology with a special attention to climate variability and change as well as to climatic anomalies and weather extremes. In 1985, 1988 and 1990 he participated in polar expeditions to Spitsbergen. In 1992/1993 he was an invited professor at the ETH Zürich, Switzerland. He is a chairman of the Czech National Geographic Committee and a full member of Commission on Climatology of the International Geographical Union.



Harold Brooks

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Harold Brooks is a research meteorologist and Head of the Mesoscale Applications Group at the National Severe Storms Laboratory (NSSL) in Norman, Oklahoma. He grew up in Saint Louis, Missouri. As an undergraduate, he majored in physics and math at William Jewell College, with a year at the University of Cambridge studying Archaeology and Anthropology. He has a Ph.D. from the University of Illinois and a M.A. from Columbia University. After graduating from Illinois, he was a National Research Council Research Associate at NSSL and joined the permanent staff there in 1992. During his career, his work has focused on why, when, and where severe thunderstorms occur and what their effects are, and on how to evaluate weather forecasts. In 2002, he received the United States Department of Commerce's Silver Medal for his work on the distribution of severe thunderstorms in the United States. Currently, he is Co-Chief Editor of the American Meteorological Society's journal, *Weather and Forecasting*, and is a member of the World Meteorological Organization's Joint Working Group on Verification.



Ian Burton (*WOT)

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Ian Burton is a Scientist Emeritus with the Meteorological Service of Canada; an Emeritus Professor at the University of Toronto, and a Fellow of the Royal Society of Canada. He now works as an independent scholar and consultant in climate change and natural hazards with particular interest in adaptation and the science-policy interface. He is currently a Lead Author in the IPCC 4th assessment.



Ryan Crompton

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Ryan Crompton obtained both his BSc (Advanced Mathematics) (2001) and Postgraduate Diploma in Accounting (2003) from Macquarie University. He joined Risk Frontiers at the completion of his studies and is responsible for the research and development work associated with Risk Frontiers' tropical cyclone loss estimation model (CyclAUS).

Other recent work includes a report prepared for the Insurance Council of Australia in which various indexation methods were explored and applied to their historical list of insured natural disaster losses. Other interests include the pricing and structure of catastrophe bonds, and he has previous experience in numerical ocean modelling and the analysis of mining risk.



Andrew Dlugolecki

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Andrew Dlugolecki is now a Visiting Research Fellow at the Climatic Research Unit, University of East Anglia, a director of the Carbon Disclosure Project, and advisor on climate change to UNEP Finance Initiative.

Andrew worked for 27 years in Aviva insurance group, in a number of senior technical and operational posts, starting with General Accident in 1973, and retiring from the position of Director of General Insurance Development in December 2000. He served as the chief author on Financial Services and later reviewer for the Intergovernmental Panel on Climate Change in its Second, Third and Fourth (due 2007) Assessment Reports in Working Group 2, and carried out similar duties for official UK and EU reviews of climate change. He also chaired two studies of climate change by the Chartered Insurance Institute (1994 and 2001), and is currently recruiting the writing team for a third report due in 2007.

Andrew obtained BSc (Hons) in Pure Mathematics at Edinburgh (1970), MA in Operational Research at Lancaster (1971), and PhD in Technological Economics at Stirling (1978), and is Fellow of Chartered Insurance Institute (1990), and Fellow of Royal Meteorological Society (1992).

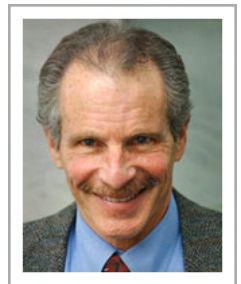


Paul Epstein

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Paul R. Epstein, M.D., M.P.H. is Associate Director of the Center for Health and the Global Environment at Harvard Medical School and is a medical doctor trained in tropical public health. Paul has worked in medical, teaching and research capacities in Africa, Asia and Latin America and, in 1993, coordinated an eight-part series on Health and Climate Change for the British medical journal, *Lancet*. He has worked with the Intergovernmental Panel on Climate Change (IPCC), the National Academy of Sciences (NAS), the National Oceanic and Atmospheric Administration (NOAA) and the National Aeronautics and Space Administration (NASA) to assess the health impacts of climate change and develop health applications of climate forecasting and remote sensing. He also served as a reviewer for the Health chapter of the Millennium Ecosystem Assessment, and was the lead author of *Climate Change Futures: Health, Ecological and Economic Dimensions*, a report released on November 1, 2005 after a three-year collaboration between the Center for Health and the Global Environment, Swiss Re and the United Nations Development Programme.



Eberhard Faust (*WOT)

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Eberhard Faust, a geocologist and theologian, is head of the climate risks, geo risks research division at Munich Reinsurance Company. Prior to this, Eberhard worked at Deutsche Rückversicherung, Düsseldorf where he was an expert on natural perils (windstorm and climate risks). His research background is in software engineering, modelling of natural perils, natural hazards risk management. Eberhard received his M.Sc. in Geocology from University of Bayreuth and his Ph.D. in Theology from University of Heidelberg.



Indur Goklany

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Indur Goklany, who is Assistant Director for Science and Technology Policy at the U.S. Department of the Interior's Office of Policy Analysis, has worked for over thirty years on a variety of developmental, natural resource and environmental issues with the U.S. federal government, the State of Michigan, the private sector, and various think tanks. He has researched and written widely on science-related public policy issues pertaining to the relationships between human well-being, economic development and technological change; hunger; biotechnology; sustainable development; the precautionary principle, air quality; and climate change. He has a bachelor's degree from the Indian Institute of Technology, Bombay, and master's and doctorate degrees from Michigan State University (all in electrical engineering). He is the author of *The Precautionary Principle: A Critical Appraisal of Environmental Risk Analysis* (Washington, DC: Cato Institute, 2001).



Maryam Golnaraghi

Natural Disaster Prevention and Mitigation Programme, World Meteorological Organization (WMO)

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In September 2004, Dr. Golnaraghi joined WMO to head up its new crosscutting Natural Disaster Prevention and Mitigation (DPM) Programme. Dr. Golnaraghi is the WMO focal point on all disaster prevention and mitigation activities for weather, water and climate-related hazards. She is coordinating WMO's activities related to the International Strategy for Disaster Reduction (ISDR) System. Through development of a coordinated approach among WMO's 10 Scientific and Technical Programmes and WMO's constituent bodies, Dr. Golnaraghi is working to ensure that WMO is contributing in a systematic and sustainable manner to strengthening of national capacities for observing, monitoring, detecting, early warnings and mapping of hydro-meteorological hazards. She is working to establish new organizational partnerships for WMO to ensure optimal utilization of WMO's scientific and technical capacities in disaster risk reduction decision process at national, regional and international levels. Dr. Golnaraghi coordinates WMO's contributions to the establishment of the Tsunami Early Warning System (TEWS) in the Indian Ocean and other regions at risk. In this capacity she also works with the Office of the UN Special Envoy on Tsunami Recovery, Former President Clinton.



From 1993 to 1995, Dr. Golnaraghi worked at Harvard University, as a postdoctoral fellow; and later as research associate at the Harvard Business School. In 1996, she founded Climate Risk Solutions, Inc., a consulting company working with the private sector, the government and the U.S. research community, providing innovative risk management solutions based on the latest scientific and technological developments in the field of weather and climate for public- and private-sector decision-making and public/private partnerships. Since 1993, she served as Principal Investigator on numerous projects with the U.S. National Oceanic and Atmospheric Administration, related to applications of climate information and forecasting technologies. Dr. Golnaraghi also worked extensively in the area of weather derivatives, involving technical capacity building in energy and financial corporations for access to and utilization of climate information. From 2000 to 2004, as a full-time consultant with Air Worldwide Corporation, she oversaw the development of AIR's climate business unit and the development of its operational climate forecasting system in support of the-state-of-the-Art risk modelling tools of AIR. Dr. Golnaraghi has advised over 70 companies in the insurance/reinsurance, energy and agriculture sectors and has authored various articles in technical, policy and business journals. She also served as the executive editor of *The Climate Report*, a quarterly publication of CRS.

Hervé Grenier

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Hervé Grenier has been employed at AXE Re since 2002. He holds a masters's degree in meteorology from University of Paris VI and a PhD degree in atmospheric sciences from Université of Louvain in Belgium. Prior to joining at AXA Re, he successively worked as a research scientist at the University of Washington in Seattle for three years and at the French National Center for meteorological research in Toulouse for 2 years. His research involved developing physical parameterizations for cloudy boundary layer turbulence and tropical shallow convection, and sensitivity of climate simulations to these physical parameterizations.

In the weather derivatives department of AXA Re, he was originally responsible for providing expertise regarding the underwriting of weather derivatives, and developing tools to efficiently manage the exposure. He is now mostly involved in the risk modelling department of the company, in charge of studying climate hazards variability and providing guidance for the management of the property book of business.

Bhola R. Gurjar (*WOT)

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Bhola Gurjar is on the faculty of the Civil Engineering department of India's premier technological institution, Indian Institute of Technology in Roorkee. He has extensive industrial, teaching, training and research experience. His present research interests include atmospheric emissions and climate change; environmental impact and risk assessment; air and water pollution; and integrated cross-disciplinary study of science and policy issues of the environment, health, energy, economy, entrepreneurship, technology, infrastructure and resources – particularly from the global change, sustainable development and risk governance perspectives.

He is co-author/co-editor of five books, and has a number of research papers to his credit. He has received several awards and fellowships including the prestigious Advanced Postdoctoral Research Fellowship of the Max Planck Society, which was awarded to him to work at the Max Planck Institute for Chemistry, for three years. Based on his outstanding research work at the MPIC–Mainz, the Scientific Steering Committee of the global change SysTem for Analysis, Research and Training, Wash., D.C., honored him with the 2004 START Young Scientist Award. To learn more: <http://www.iitr.ernet.in/departments/CE/people/faculty/facthtml/bholafce.htm>.



Armin Haas

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Armin Haas is a senior researcher currently working in PIK's research group "Global Financial Transition" led by Carlo Jaeger. When he joined PIK in 2000, he first worked on the transition of the global energy system.

Armin has been trained as an economist at the University of Karlsruhe, Germany. In his Ph.D. thesis, he applied stochastic dynamics to cartel theory. His other fields of research have been the credit mechanism that allocates resources in real economies, and the improvement of stakeholder dialogues for managing climate risks. As an innovative tool for climate communications, he co-authored the climate board game "Winds of Change".

Armin contributes to the management of the European Climate Forum. He is founding member of the Munich Climate Insurance Initiative. In Fall 2006, he started a project on mainstreaming the management of climate risks by German financial service providers. His special interest lies with Bayesian techniques for managing climate risks.



Jaakko Helminen

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Jaakko Helminen is a Senior meteorologist at the Finnish Meteorological Institute in Helsinki, Finland. He has with the Finnish Meteorological Institute since 1983. His main area of specification is in meteorology, mathematics (calculus of probability), statistics, and project management. From 2001-2005, Jaakko was a leader for the WMO/CCI/CLIPS/OPAG3 Expert Team on End-User Liaison. Since 2004, he has been a member of the Scientific Organizing Committee of the WMO Conference on Climate Variability and Change: Understanding the Uncertainties and Managing the Risks and chairman of the Local Organizing Committee of the WMO Conference on Climate Variability and Change: Understanding the Uncertainties and Managing the Risks (17-21 July 2006 at Dipoli, Espoo, Finland). He has bachelor's, master's and doctorate degrees from University of Helsinki (all in Meteorology).



Peter Höppe (Workshop Co-Organizer, *WOT)

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Peter Höppe has been Munich Re's head of Geo Risks Research since 2004. Prior to this, Peter was a tenured lecturer and senior lecturer at the Institute of Occupational and Environmental Medicine and Institute of Bioclimatology and Applied Meteorology, at Ludwig Maximilian University in Munich. Peter's main areas of research are the effects of atmospheric processes (heat/cold, UV radiation, air pressure fluctuations) and air pollutants (ozone, particles) on humans; assessment of environmental risks. From 1999-2002, Peter was president of the International Society of Biometeorology and also a board member for the German Meteorological Society. Peter studied meteorology at LMU and received his Ph.D. in physics and a second Ph.D. in human biology.



Shi Jun (unable to attend)

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Shi Jun is an engineer in Shanghai Climate Center, Shanghai Meteorological Bureau, China. From 1995 to 2002, he was a student in the Northeast Forestry University, Haerbin, China, where he studied forestry and ecology and received his bachelor and master degree in 1999 and 2002 respectively. He received his doctoral degree of science from the Institute of Geographic Sciences and Natural Resources Research, Chinese Academy of Sciences in 2005, with the research direction of global change and terrestrial carbon cycle. Now he focuses his research on regional climate change and meteorological disaster.



Claudia Kemfert

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Claudia Kemfert is Professor of Energy Economics at Humboldt University of Berlin and Head of the department “Energy, Transportation and Environment” at the German Institute of Economic Research in Berlin.

Claudia studied economics at Oldenburg, Bielefeld Germany and Stanford University, United States. She worked for the Fondazione Eni Enrico Mattei (FEEM) in Italy and Stuttgart University, Institute for Rational Energy Use. Claudia gave lectures at the universities of St. Petersburg from 2003/04, Moscow from 2000/01 and Siena in 1998, and from 2002/03. She also acts as an external expert for the World bank and United Nations. Claudia is in the editorial board of Energy Economics and GAIA. She is scientific advisor of the Austrian Institute of Economics, WIFO and member of the sustainability advisory council of the state Baden-Württemberg, Germany. Her research activities concentrate on the evaluation of climate and energy policy strategies.



Richard J.T. Klein (*WOT)

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Richard J.T. Klein is a senior research fellow at the Stockholm Environment Institute (SEI) in Sweden and a visiting researcher at the Potsdam Institute for Climate Impact Research (PIK) in Germany. At SEI he leads the Stockholm-based Climate and Energy team and co-ordinates climate policy research across all SEI centres. He also directs the joint PIK-SEI research project Formal Approaches to Vulnerability Assessment that Informs Adaptation (FAVAIA).

Until mid-2006 Richard was group leader and deputy head of the department of Global Change and Social Systems at PIK. From 2001 to 2004 he co-directed the award-winning interdisciplinary project Environmental Vulnerability Assessment (EVA), upon which in 2005 he initiated FAVAIA. Within EVA and FAVAIA he successfully managed externally-funded research projects and activities with a total budget of over € 3 million.



Richard has fourteen years of experience as a researcher and senior researcher on societal vulnerability and adaptation to climate variability and change. He has been a principal investigator in a number of collaborative projects, including WISE, DINAS-COAST (which he co-ordinated), ATEAM, Security Diagrams, cCASHh, NeWater and ADAM. In addition, he has provided research and consultancy services to UNDP, UNEP, UNFCCC, GEF, World Bank, OECD, WHO, IUCN, Germanwatch, the European Commission and the governments of the Netherlands, Germany, Norway and the United Arab Emirates. He has been a lead author in the IPCC Second and Third Assessment Reports and the Millennium Ecosystem Assessment, and a co-ordinating lead author in the IPCC Special Report on Technology Transfer and the Fourth Assessment Report. He co-organised the seminal IPCC Workshop on Adaptation in 1998 and the Potsdam Workshop on Adaptive Capacity and Development in 2001.

Richard holds a PhD (magna cum laude) in environmental geography (Christian-Albrechts-Universität zu Kiel), as well as master's degrees (distinction) in quaternary geology (Vrije Universiteit Amsterdam) and environmental sciences (University of East Anglia). To date he has produced over sixty journal articles, book chapters and reports, edited a book and two special journal issues and contributed to numerous national and international workshops and conferences. He has supervised one MSc student and currently has supervising responsibilities for six PhD students.

Thomas Knutson

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Thomas Knutson has been a Research Meteorologist at the Geophysical Fluid Dynamics Laboratory (GFDL) since 1990. GFDL, which is part of the National Oceanic and Atmospheric Administration, is one of the world's leading climate modeling centers.

Mr. Knutson has authored several studies in major scientific journals on the potential impact of climate change on hurricane intensities and hurricane-related precipitation. He is currently serving on the World Meteorological Organization Steering Committee for Project TC-2: Scientific Assessment of Climate Change Effects on Tropical Cyclones.

His other research interests include climate change detection, and comparison of observed and simulated regional surface temperature trends.



Thomas Loster (*WOT)

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Chairman of Munich Re Foundation since 2004, Thomas Loster has been a member of Geo Risks Research Department at Munich Reinsurance Company since 1988. During this time, Thomas was involved with the development of Section "Digital Cartography", creator and editor of periodical publication Topics geo—Annual Review: Natural Catastrophes, head of division "Flooding", head of NatCatSERVICE®, and head of Weather/Climate Risks Research. Thomas received his degree in geography at Ludwig-Maximilians-University.



Robert Muir-Wood

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Robert Muir-Wood heads the Research Group within RMS with the mission to design enhanced methodologies for natural catastrophe modeling and develop models for new areas of risk. He has more than 20 years experience in developing probabilistic catastrophe models for hurricane windstorm and flood in Europe Japan North America Caribbean and Australia. Author of six books many scientific publications and numerous articles he has also been the technical lead on a number of Catastrophe risk securitization transactions. He is also a Lead Author covering issues around Climate Change and Catastrophe risk occurrence relevant to the insurance and finance sectors for the next (4th) 2007 IPCC Assessment Report.



Gunilla Öberg

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Gunilla Öberg is Professor at Linköping University (LiU) and Director of the Centre for Climate Science and Policy Research. Important parts of the institute's research are the MISTRA financed research project "Climate Science and Policy Beyond 2012+ as well as a research project that focus on communication in relation to the follow up of the Swedish Environmental Goals. Gunilla is in charge of the group at LiU that focus on the biogeochemistry of chlorine. Among other tasks can be mentioned, Gunilla teaches at the Environmental Science Programme at LiU Norrköping. Gunilla is also an affiliated professor at University of Colorado at Boulder, USA, adjunct professor at Xinjiang University, PR China, board member of Malmö University as well as of the County administrative board of Östergötland, both Sweden.



Jean Palutikof (*unable to attend*)

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Jean Palutikof is Head of the Technical Support Unit, IPCC Working Group II. She is based in the Hadley Centre for Climate Prediction and Research, the Met Office. Prior to joining the Met Office, she was a Professor in the School of Environmental Sciences, and Director of Climatic Research Unit, at University of East Anglia. Her research interests focus on climate change impacts, and the application of climatic data to economic and planning issues. She co-ordinated the EU-funded MICE project (Modelling the Impacts of Climate Extremes) and was a partner in the PRUDENCE project (Prediction of Regional scenarios and Uncertainties for Defining European Climate change risks and Effects). She worked for a number of years on the MEDALUS projects, constructing scenarios of regional climate change for the Mediterranean, for application to research on desertification. She was a Lead Author for Working Group II of the IPCC Third Assessment Report. She has edited three books, and published over two hundred articles and papers on climate change.



Roger Pielke, Jr. (Workshop Co-Organizer, *WOT)

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Roger A. Pielke, Jr. has been on the faculty of the University of Colorado since 2001 and is a Professor in the Environmental Studies Program and a Fellow of the Cooperative Institute for Research in the Environmental Sciences (CIRES). At CIRES, Roger serves as the Director of the Center for Science and Technology Policy Research. Roger's current areas of interest include understanding disasters and climate change, the politicization of science, decision making under uncertainty, and policy education for scientists. In 2000, Roger received the Sigma Xi Distinguished Lectureship Award and in 2001, he received the Outstanding Graduate Advisor Award by students in the University of Colorado's Department of Political Science. Before joining the University of Colorado, from 1993-2001 Roger was a Scientist at the National Center for Atmospheric Research. Roger sits on the editorial boards of Policy Sciences, Bulletin of the American Meteorological Society, Environmental Science and Policy, Darwin, Water Resources Research, and Natural Hazards Review. He sits on various advisory committees, is author of numerous articles and essays, and is also author, co-author or co-editor of four books. He is the author of a forthcoming book titled: The Honest Broker: Making Sense of Science in Policy and Politics to be published by Cambridge University Press in early 2007.



S. Raghavan (*unable to attend*)

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S. Raghavan is a former Deputy Director-General of Meteorology, of the India Meteorological Department. He has worked mainly in the areas: Tropical Cyclone prediction and warning, Techno-Economic analysis of the Meteorological Component of the Indian Space Programme, Meteorological Instruments and Observations, Radar Meteorology, Radar-Satellite estimation of precipitation, and Radio wave Propagation.

Raghavan has published a book “Radar Meteorology”, and has also contributed a chapter in a two-volume book on “Storms”. Raghavan also published 70 research papers.

Currently, Raghavan is Consultant to the Indian Space Research Organisation and is associated with several Universities as guest lecturer. He was also the Principal Investigator of a Research Project at the National MST Radar Facility (now National Atmospheric Research Laboratory).



Silvio Schmidt

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Silvio Schmidt is a PhD-student at the German Institute for Economic Research, Berlin (DIW) since 2005. He studied at the University of Tübingen and the University of Nanjing, P.R. China and received his graduate degree in economics from the University of Tübingen in 2002.

Since 2002 he works for Munich Reinsurance Company, since 2004 as environmental expert in the Department for Geo Risks Research and Environmental Management.

Silvio Schmidt take part in a research project cooperation between DIW and MunichRe and works for his PhD-thesis on loss trends of natural catastrophes and assessments to the economic impact of climate change.

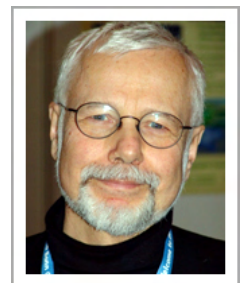


Gerd Tetzlaff

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Gerd Tetzlaff is a full Professor and founding director of the meteorology department at the Universität Leipzig. Prior to his appointment at Universität Leipzig, Gerd was lecturer and assistant professor (tenure) at Universität Hannover. His research interests include extreme events of wind and precipitation, boundary layer meteorology (experimental and modelling), and high atmosphere. Gerd is vice chair of DKKV and GeoUnion. He on the council for IUGG, secretary general of GeoRiskCommission, national representative of IAMAS, on the Deutscher Wetterdienst scientific advisory board, and is also senate of the Leibniz Society and Universität Leipzig. From 1995-2001, Gerd was co-editor of promet and Meteorological Zeitschrift. He is on the board of directors for the German Wind Energy Institute and Meteorologische Zeitschrift. Gerd received his master's in Meteorology from Freie Universität Berlin and his Ph.D. and DSc. (Habilitation) in meteorology from Universität Hannover.



Emma Tompkins (*WOT)

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Emma Tompkins is a research fellow at University of Oxford's Centre for the Environment and Tyndall Centre for Climate Change. Emma's previous experience has been in multi-disciplinary projects. Her specialisation is in institutional adaptation to environmental change, environmental management, participatory approaches, integrated and inclusive coastal zone management, multi-criteria analysis (MCA), contingent valuation methods, stakeholder analysis and conflict management. Her research interest lies in developing a theory of adaptive capacity to climate change. This area of research includes understanding the determinants of adaptive capacity; what motivates individuals and societies to respond to natural hazards; and identifying the linkages between adaptive and mitigative capacity.



Hans von Storch (*WOT)

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Hans von Storch is director of Institute of Coastal Research of the GKSS Research Centre and professor at the Meteorological Institute of the University of Hamburg. From 1987 - 1995, he was Senior Scientist and leader of the "Statistical Analysis and Modelling" group at the Max Planck-Institut for Meteorology (Hasselmann division). In 1996, Hans von Storch became director of the Institute of Hydrophysics at the GKSS Research Centre and professor at the Meteorological Department of the University of Hamburg. In 2001, the Institute of Hydrophysics became part of the Institute of Coastal Research. Within that institute, he is director of the division "Systems Analysis and Modelling".



His research interests are climate diagnostics and statistical climatology, specifically detection and attribution of anthropogenic climate change, variability and change in storminess and related marine variables (storm surges, ocean waves), regional climate change; use of paleo proxy data to study climate variability and change, transdisciplinary context.

Hans has published eleven books, and numerous articles and is in charge of a number of projects. He is member of the advisory boards of *Journal of Climate* and *Meteorologische Zeitschrift*, *Annals of Geophysics*, and organizer of the GKSS School on Environmental Research. He is also a member of the steering committee of the International Meeting on Statistical Climatology and of the committee for the Eduard Brückner award.

Hans studied mathematics, physics and Danish at the University of Hamburg, and received a diploma in mathematics in 1976. While a student he also worked as a programmer at the Department of Oceanography. He went on to receive his Ph.D. from the Meteorological Department of the University of Hamburg in 1979, and his "Habilitation" in 1985.

Koko Warner

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Koko Warner serves as a senior scientific advisor at the United Nations University Institute for Environment and Human Security (UNU-EHS). She coordinates the Munich Re Foundation Chair on Social Vulnerability. Prior to joining the UNU, Warner was an economist research scholar at the Natural Hazards Department at the World Institute for Disaster Risk Management (DRM) in Davos, Switzerland. Dr. Warner has worked for the past seven years on the economic and societal impacts of climate change and natural catastrophes in developing countries.

Warner's research has focused on policy and financial instruments to reduce and transfer disaster risk. Warner's research identifies existing incentive structures for decision makers, and explores financial services that can provide efficient risk transfer and encourage prudent risk reduction measures. In 2004 and 2003, her work focused on operational policies for natural disaster management at major international financial institutions, upon infrastructure loan portfolios and the reduction of infrastructure vulnerability, and strategies for reducing poverty and infrastructure vulnerability to climate change. Past work quantified the macroeconomic effects of potential capital stock exposure to catastrophe loss. This research focused on alternatives to finance weather-related catastrophe risk.

Koko Warner is a member of the Munich Climate Insurance Initiative (MCII). She received her doctoral degree in economics, and currently also serves as an assistant professor at the University of Richmond's Emergency Service Management graduate program.



Martin Weymann

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Martin Weymann is a Sustainability and Emerging Risk Advisor within Risk Management Division. In his current function he contributes to the identification, assessment, evaluation and business implementation of emerging risks within the company. Climate change and its impacts to the reinsurance industry was one of the main topics he was involved over the past years since he joined Swiss Re in 2002. Through joining the International Graduate Programme in 2002, he worked also in Asset Management and Corporate Underwriting.

Martin holds a master in environmental sciences from ETH Zurich with specialization in environmental physics, water and climate. He finished his studies with a diploma thesis in the field of radioactive tracers, climate change and mathematical modelling. Additionally, he was an assistant for system analysis and scenario planning at ETH Zurich.



Angelika Wirtz (*WOT)

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Angelika Wirtz has been working with Munich Reinsurance Company for 23 years. Angelika is responsible for the Munich Re NatCatSERVICE® and is chief editor of Munich Re's annual review of natural catastrophes "Topics Geo".

The MRNatCatSERVICE® is based on a comprehensive data base where natural disasters and loss events are analysed and documented. Detailed information on the location, date and duration of events is stored and all relevant facts are summarized in a brief description, which provides a simple and quick overview of the dimensions of each loss event. Statistics are also provided on damaged or destroyed buildings, affected infrastructure, damage to lifeline network, agricultural damage and the number of victims. The NatCatSERVICE® also includes a record of insured and overall losses which are of vital importance for analysing and determining trends.

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Qian Ye, after obtained his Ph.D. degree in Satellite Climatology from Oregon State University in 1993 and worked with NOAA and Chinese Academy of Sciences for seven years, is now working in Center for Capacity Building, National Center for Atmospheric Research in the field of weather and climate related impacts on society. He has worked with Dr. Michael Glantz, CCB director, to promote an education and training program so called Climate Affairs Program around the world, especially in Asia including China, Great Central Asia and Southeast Asia. He has worked with China Meteorological Administration and universities as well as local and national government agencies to develop social and economic impact research programs around China. He is also working with China National IHDP committee as deputy general secretary and with Chinese Academy of Meteorological Sciences as President assistant. Currently, he is leading an international research team to conduct a social and economic impact assessment project for WMO/WCRP Beijing 2008 Olympics Forecasting Demonstration Program. As a special advisor for the newly established China Weather TV, he is helping CWTV to develop a research program on better disseminating natural hazard information based on different technologies including traditional media such as TV, radio and newspapers as well as new media such as internet, cell phones and satellite radios.



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Ricardo Zapata-Marti is currently Focal Point for Disaster Evaluation at the Subregional Headquarters in Mexico of the United Nations Economic Commission for Latin America and the Caribbean.

Professionally Ricardo has worked for the UN/ECLAC since 1975. Previously he was editor and researcher at the Special Projects Department of the Mexico office of the a major international editorial house (1968-1969); Assistant researcher, Economics Department, Universidad Católica del Perú (1972-73); Assistant professor, Economics Department, same institution (1972-73); Lecturer on Macroeconomic Theory and International Trade, Universidad Católica de Guayaquil (Ecuador) (1974-75); Columnist and editor, "El Comercio" daily newspaper, Quito (Ecuador) (1973-1975); contributor and executive editor, "Vistazo" weekly newsmagazine, Guayaquil (Ecuador) (1974-1975).

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In the United Nations Economic Commission for Latin America and the Caribbean, he worked at the Joint ECLAC/FAO Agricultural Division (Santiago, Chile), 1976-81; was Trade Officer, Subregional Office for the Caribbean (Trinidad y Tabago), 1981-83; Economic Affairs Officer, Join ECLAC/FAO Agriculture Unit, subregional Headquarters in Mexico 1983-1987, Chief, International Trade Unit at the same office, 1987-2005, and since 1989 to date has been the Focal Point for Disaster Evaluation of ECLAC. In those capacities he has represented ECLAC at numerous events, conferences and intergovernmental meetings.

Ricardo has participated in a number of conferences, symposia, seminars, on trade issues and on the valuation and socio-economic impact of natural disasters. Among the latter he attended the United Nations World Conference on Natural Disaster Reduction, held in Yokohama, Japan, in 1994, International Forum that took place at the end of the International Decade for the Reduction of Natural Disasters (Geneva, July 1999), and the Second World Conference on Natural Disasters, held in Kobe, Hyogo, Japan, in 2005.

In the field of disasters he has led numerous assessment missions in the Latin American and Caribbean region, coordinated the current edition of the ECLAC methodology for disaster evaluation (published in 2004), provided technical assistance to the World Bank's Hazard Risk Management Team (including the assessments of the 2004 Tsunami in Indonesia and India), and coordinated technical cooperation projects between ECLAC and the Interamerican Development Bank and the United Nations Development Programme Among the latter he attended the United Nations World Conference on Natural Disaster Reduction, held in Yokohama, Japan, in 1994, and the International Forum that took place at the end of the International Decade for the Reduction of Natural Disasters (Geneva, July 1999).



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