

Detailed Poster Programme with Timeframe

Tuesday, 10 March 2009

15:00 - 15:30 P16

Hall C

Session 16 - Integrating Economic Models and the Dynamics of the Carbon Sinks

- 15:00 - 15:10 P16.01 Managing forest ecosystems to cope with climate change: adaptation and mitigation strategies
Felipe Bravo (Spain), V Lemay, R Jandl, K von Gadow
- 15:10 - 15:20 P16.02 How innovative space observation technologies can contribute to the development of a dynamic and reliable market for forestry based carbon credits
Christophe Nussli (France)
- 15:20 - 15:30 P16.03 Ocean iron fertilization: recent results, estimates of potential, and economic considerations
Daniel Whaley (USA), M Leinen, K Whilden

15:00 - 17:00 P18

Hall C

Session 18 - Potentials and Limitations of Biofuels

- 15:00 - 15:10 P18.01 The industrial dynamics of transitions to bio-based feedstocks: the case of the UK
Simon Bennett (UK), P Pearson, A Bauern
- 15:10 - 15:20 P18.02 Aquatic biomass for biofuels
Annette Bruhn (Denmark), MB Rasmussen, PD Jensen, LT Mouritsen, Bt Olesen, S Markager, AB Thomsen, B Sander
- 15:20 - 15:30 P18.03 Estimating the potential of Jatropha curcas as a biofuel crop in South India using simulation results from two crop models
Subhashree Das (Germany), D Lapola, J Priess
- 15:30 - 15:40 P18.04 Biofuels and biodiversity: an assessment of the impacts of biofuels on biodiversity and the appropriate policy responses
Barney Dickson (UK), A Campbell, V Kapos, L Miles, J Scharlemann
- 15:40 - 15:50 P18.05 GHGs reduction and Clean Development Mechanism (CDM) application for sustainable development: a case study at a starch-processing factory, Thailand
Suthirat Kittipongvises (Thailand)
- 15:50 - 16:00 P18.06 Modelling the potential impact of bio-fuel crop production on natural land in India
Christina Kölling (Germany), D Lapola, J Koch, R Schaldach, S Msangi, J Alcamo
- 16:00 - 16:10 P18.07 Challenges of promoting sustainable forest energy technology and know-how
Leena A Leskinen (Finland), L Sikanen, P Leskinen, D Röser, H Viiri, T Peltola
- 16:10 - 16:20 P18.08 Transportation sector stranded in the current biofuels – vague solution – skeptical approach
Michal Monit (Iceland)
- 16:20 - 16:30 P18.09 Historical carbon budget of the Brazilian ethanol program
Sergio Pacca (Brazil), JR Moreira
- 16:30 - 16:40 P18.10 Life-cycle analysis and renewable fuel goals: a regulator's Scylla and Charybdis
Adam Reed (USA)
- 16:40 - 16:50 P18.11 Lifecycle analysis and international standards for sustainable biofuels
Jürgen Scheffran (USA)
- 16:50 - 17:00 P18.12 First and second generation biofuels up to 2030 – possible scenarios and their environmental impacts
Elke Stehfest (The Netherlands), G Woltjer, AG Prins, B Eickhout, M Banse

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15:00 - 17:30 P19

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Session 19 - Renewable Energies: How Far Can They Take Us?

- 15:00 - 15:10 P19.01 Combating climate change by using renewable energies – a case study from India
Subrat K Sharma (India)
- 15:10 - 15:20 P19.02 Geothermal energy in Denmark - an environmentally compatible supplement to the total energy supply
Anders Mathiesen (Denmark), *LH Nielsen, T Bidstrup*
- 15:20 - 15:30 P19.03 Pathways to sustainable European energy systems – assessing the CO2 emission sources
Johan Rootzén (Sweden), *F Johnsson*
- 15:30 - 15:40 P19.04 Maximising energy savings from domestic microgeneration: a cultural and behavioural analysis
Noam Bergman (UK), *J Barton, R Blanchard, N Brandon, D Brett, A Hawkes, C Jardine, N Kelly, M Leach, A Peacock, I Staffell, B Woodman*
- 15:40 - 15:50 P19.05 Microgeneration from renewable and non-renewable sources
Iain Staffell (UK), *P Baker, J Barton, N Bergman, R Blanchard, N Brandon, D Brett, A Hawkes, D Infield, C Jardine, N Kelly, M Leach*
- 15:50 - 16:00 P19.06 Sustainable urban transportation
Pedro R Kanof (USA)
- 16:10 - 16:20 P19.07 The CDM, a booster for renewable energy technologies? A systematic performance analysis of emission reduction projects
Tobias Schmidt (Switzerland), *M Schneider, V Hoffmann*
- 16:20 - 16:30 P19.08 Decentralized renewable energy: an adaptative strategy for climate change and limiting restiveness in the niger delta region of southern Nigeria
Chidiezie Chineke (Nigeria), *O Nwofor, O Okoro, N Onyeuwaoma*
- 16:30 - 16:40 P19.09 Beyond the carbon economy - energy law in transition
Anita Rønne (Denmark)
- 16:40 - 16:50 P19.10 What does climate change mean for wind power generation in the UK?
Hazel Thornton (UK), *P James*
- 16:50 - 17:00 P19.11 Wood fuel usage. Future through present experience
Dagnija Blumberga (Latvia), *F Romagnoli, C Rochas, J Pugule*
- 17:00 - 17:10 P19.12 Habitat and land use constraints on biomass production in England
Richard Wadsworth (UK), *D Howard, J Whitaker*
- 17:10 - 17:20 P19.13 Assessing the viability of small-scale wind turbines in South Africa in different scenarios
Brendan Whelan (South Africa), *E Muchapondwa*

15:00 - 15:15 P22

Session 22 - Transforming Institutions to Managing a Carbon Constrained World

Hall C

- 15:00 - 15:10 P22.01 Improving stakeholder cooperation in post Kyoto climate policy
Michiel Hekkenberg (The Netherlands), *AJM Schoot Uiterkamp*

15:00 - 17:00 P23

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Session 23 - Integrating National and International Approaches to Carbon Pricing: Developing a Global Framework

- 15:00 - 15:10 P23.01 Inclusion of avoided deforestation in carbon trading schemes: the scientific basis
Jemma Gornall (UK), *R Betts, J Hughes, N Kaye, D McNeall, A Wiltshire*
- 15:10 - 15:20 P23.02 Climate change mitigation and carbon pricing instruments: a review of the hybrid approach
Molina Vale Petterson (Brazil)
- 15:20 - 15:30 P23.03 Attempts to insulate carbon-regulated economies from under-regulated imports, and the inadvertent integration of the world's carbon markets
Elias Quinn (USA)
- 15:30 - 15:40 P23.04 Induced versus autonomous technical change in relation with the marginal abatement cost curves
Rodica Loisel (France), *A Saglio, O Sassi, H Waismann*
- 15:40 - 15:50 P23.05 Techno-economic modelling of global climate policies
Bert Saveyn (Spain), *P Russ, J-C Ciscar, L Szabo, T Van Ierland, D Van Regemorter*

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15:00 - 17:00 P23

Hall C

Session 23 - Integrating National and International Approaches to Carbon Pricing: Developing a Global Framework (cont.)

- 15:50 - 16:00 P23.06 Neutrality or sustainability for the Swiss post-2012 climate policy
André Sceia (Switzerland), JC Altamirano Cabrera, M Vielle
- 16:10 - 16:20 P23.07 The just price of PERMITs denominated in CoP Dinar
Anandi Sharan-Meili (India)
- 16:20 - 16:30 P23.08 Role of import quota scarcity in linking carbon pricing instruments
Gabriella Szajko (Hungary), A Mezosi
- 16:30 - 16:40 P23.09 Clean investment budgets reward developing countries for early action
Gernot Wagner (USA), J Wang, NO Keohane
- 16:40 - 16:50 P23.10 The whole process view on the future allocation of permits in a global cap-and-trade system
Wenjun Wang (PR China)
- 16:50 - 17:00 P23.11 Low carbon city development of China
Qianyi Xie (PR China)

15:00 - 18:30 P24

Hall C

Session 24 - The Role of Agriculture in Mitigating Climate Change Part I

- 15:00 - 15:10 P24.01 Climate change adaptation and mitigation policies in the agriculture of Aragon (Spain)
Jose Albiac (Spain), E Calvo, E Esteban, J Tapia
- 15:10 - 15:20 P24.02 Carbon sequestration with biochar - stability and effect on decomposition of soil organic matter
Sander Bruun (Denmark), T El-Zahery, L Jensen
- 15:20 - 15:30 P24.03 Is organic farming a mitigation option? – A study on N₂O emission from winter wheat
Mette S Carter (Denmark), K Albert, P Ambus
- 15:30 - 15:40 P24.04 Nitrous oxide emissions from contrasting organic cropping systems
Ngonidzashe Chirinda (Denmark), JE Olesen, SO Petersen, JR Porter
- 15:40 - 15:50 P24.05 Equity and abatement of LULUCF emissions in Brazil
Avery Simon Cohn (USA)
- 15:50 - 16:00 P24.06 Biofuel plantations on forested lands: double jeopardy for biodiversity and climate
Finn Danielsen (Denmark), H Beukema, N Burgess(3, 4), F Parish, C Brihl, P Donald, D Murdiyarso, B Phalan, L Reijnders, M Struebig, E Fitzherbert
- 16:10 - 16:20 P24.07 Climate variability and climate change: challenges and opportunities to extension services
Clyde Fraisse (USA), N Breuer, D Zierden, K Ingram, J Jones
- 16:20 - 16:30 P24.08 Variation in C balance in soil through input and output of C in a tropical dryland agroecosystem: influence of addition of various resource quality inputs
Nandita Ghoshal (India), S Singh, KP Singh
- 16:30 - 16:40 P24.09 Effect of soil compaction on N₂O emission from a soil fertilized with mineral fertilizer or cattle slurry
Sissel Hansen (Norway)
- 16:40 - 16:50 P24.10 A study on emission accounting system of global agricultural activities
Tomoko Hasegawa (Japan), S Fujimori, Y Matsuoka
- 16:50 - 17:00 P24.11 Taxation as an instrument to reach the EU 2020 target within agriculture?
Brian H Jacobsen (Denmark), A Dubgaard, CJ Nissen (Denmark)
- 17:00 - 17:10 P24.12 Biogas from manure represents a huge potential for reduction in global greenhouse gas emissions
Anders Peter Jensen (Denmark), K Thøry, H Wenzel, P Nielsen
- 17:10 - 17:20 P24.13 Climate mitigation through sustainable agricultural practices among poor farmers in Cambodia
Steffen Johnsen (Denmark)
- 17:20 - 17:30 P24.14 Monitoring grassland carbon sequestration in central Kazakhstan with remote sensing and carbon cycle modelling
Martin W Kappas (Germany), PA Propastin
- 17:30 - 17:40 P24.15 Methanogenic potential of, and C-Isotope fractionation by, diets based on C₃ and C₄ plants in dairy cattle and their slurry
Fenja Klevenhusen (Switzerland), SM Bernasconi, M Kreuzer, CR Soliva

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Session 24 - The Role of Agriculture in Mitigating Climate Change Part I (cont.)

- 17:40 - 17:50 P24.16 Burning cultivation of peatlands
Jan Kunnas (Finland)
- 17:50 - 18:00 P24.17 Mitigation and adaptation strategies – organic agriculture
Paul Hepperly (USA), A Fliessbach, P Maeder, A Diop, LWM Luttikholt, N Scialabba, U Niggli, T LaSalle
- 18:00 - 18:10 P24.18 Microbial processes and greenhouse gas emissions from injected liquid manure
Rikke Markfoged (Denmark), NP Revsbech, LDM Ottosen, LP Nielsen, T Nyord
- 18:10 - 18:20 P24.19 Mitigation of green house gases in European farming systems
Tinne Midtgaard (Denmark), JR Porter, JE Olesen, P Smith, JP Lesschen, PJ Kuikman
- 18:20 - 18:30 P24.20 System of rice intensification (SRI): a quest for interactive science to mitigate the climate change vulnerability
Abha Mishra (Thailand)

15:00 - 18:30 P25

Hall C

Session 25 - The Role of Forests in Mitigation Climate Change

- 15:00 - 15:10 P25.01 Parameter uncertainty analysis of forest carbon sequestration
Yoon Hyung Kim (USA), B Sohngen
- 15:10 - 15:20 P25.02 Spatial resolution matters strongly for estimating carbon relations of mountain forests
Annett Wolf (Switzerland), H Bugmann
- 15:20 - 15:30 P25.03 CO2 fertilization effects are offset by reduced longevity of forest trees
Harald Bugmann (Switzerland)
- 15:30 - 15:40 P25.04 Forest and carbon sequestration in Atlantic, Mediterranean and Subtropical areas in Spain
Felipe Bravo (Spain), C Ordóñez, A Bravo-Oviedo
- 15:40 - 15:50 P25.05 Rewarding the Providers of Ecosystems Services: Voices from the less heard
Arturo Esclamado Pasa (Philippines)
- 15:50 - 16:00 P25.06 Local and institutional perceptions of carbon risk & benefit: the case of carbon forestry in Tanzania
Nathan Hultman (USA), A Bozmoski
- 16:00 - 16:10 P25.07 The climate change mitigation by the forestry options in Bangladesh: the role of CDM
Danesh Miah (Bangladesh), S Man Yong
- 16:10 - 16:20 P25.08 Role of Indian Sunderban mangroves in mitigating climate impacts: an appraisal
Sahana Bose (India)
- 16:20 - 16:30 P25.09 Rehabilitating forests to mitigate climate change
Nicholas Ngece (Kenya), B Kanyua
- 16:30 - 16:40 P25.10 Reducing emissions from deforestation and degradation: what contribution from carbon markets?
Valentin Bellassen (France), R Crassous, L Dietzsch, S Schwartzman
- 16:40 - 16:50 P25.11 Forestry in the emissions trading system: a solution for implementing Article 3.4?
Veronika Stoeckli (Switzerland), K Moser
- 16:50 - 17:00 P25.12 Changing the deforestation impacts of Eco-/REDD payments: evolution (2000-2005) in Costa Rica's PSA program
Alexander Pfaff (USA), J Robalino, A Sanchez, F Alpizar, C Leon, CM Rodriguez
- 17:00 - 17:10 P25.13 Location affects protection & the generation of REDD: observable characteristics drive park impacts in Costa Rica
Alexander Pfaff (USA), J Robalino, A Sanchez, K Andam, P Ferraro
- 17:10 - 17:20 P25.14 REDD-ALERT: Evaluating global-level climate policy options and their local level implementation
Robin Matthews (UK), B Swallow, M van Noordwijk, J Gupta, E Lambin, E Veldkamp, L Verchot
- 17:20 - 17:30 P25.15 The role of protected areas in storing carbon and reducing emissions
Barney Dickson (UK), A Campbell, H Gibbs, M Hansen, V Kapos, I Lysenko, L Miles, J Scharlemann
- 17:30 - 17:40 P25.16 Can forestry play a major role in climate mitigation?
Ning Zeng(USA), P Read

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Session 25 - The Role of Forests in Mitigation Climate Change (cont.)

- 17:40 - 17:50 P25.17 REDD demonstration projects' double edged sword: lock-in effect or learning-by-doing?
Laura Bozzi (USA)
- 17:50 - 18:00 P25.18 Different accounting approaches to harvested wood products: Their incentives to achievement of major policy goals
Seiji Hashimoto (Japan)
- 18:00 - 18:10 P25.19 The effectiveness of carbon plantations in mitigating climate change: potentials and costs
Jelle G van Minnen (The Netherlands), **BJ Strengers**, **B Eickhout**, **D van Vuuren**
- 18:10 - 18:20 P25.20 Designing REDD that works for the poor: a case study of a pilot project to reduce emissions from deforestation and degradation (REDD) in Aceh, Indonesia
Andrea Babon (Australia)

15:00 - 16:30 P26

Hall C

Session 26 - Beyond Technology: Changing the Way We Live?

- 15:00 - 15:10 P26.01 Relationships between residential location, transportation rationales and environmental consequences
Victor Silva (Denmark), **P Naess**, **O Jensen**
- 15:10 - 15:20 P26.02 What do we really know about CO2 reductions through behavioral change?
Bob Doppelt (USA)
- 15:20 - 15:30 P26.03 The GILDED Project - governance, infrastructure, lifestyle dynamics and energy demand
Nick Gotts (UK), **L-A Sutherland**, **E Cudlínová**, **I Kovách**, **F Reusswig**, **L Steg**
- 15:30 - 15:40 P26.04 Can a change of climate bring about a change in behaviour? Climate change, social marketing & consumer segmentation.
Cerys Ponting (UK), **N Shah**
- 15:40 - 15:50 P26.05 Will carbon eco-labelling engender a new generation of eco-warriors?
Cerys Ponting (UK)
- 15:50 - 16:00 P26.06 Zero carbon homes - myth or reality?
Jo Williams (UK)
- 16:00 - 16:10 P26.07 Sufficiency economy philosophy for sustainable future: lessons of Thailand for other developing countries
Angkarn Wongdeethai (Thailand)

15:00 - 16:00 P27

Hall C

Session 27 - Low Carbon Science, Technology Policies

- 15:00 - 15:10 P27.01 Proposal on the key factors research and demonstration project for the implementation of carbon labeling in China
Chengshan Chu (PR China)
- 15:10 - 15:20 P27.02 Backcasting policies for carbon reduction in the UK energy system
Paul Ekins (UK), **G Anandarajah**
- 15:20 - 15:30 P27.03 A 'bundle of rationales' for renewable energy research: why single-rationale big technology programs are a thing of the past
Thor Hogan (USA)
- 15:30 - 15:40 P27.04 Adoption paid by non-adopters: an innovative techno-economic policy to spread clean technologies
Valentino Piana (Italy)
- 15:40 - 15:50 P27.05 Technology transfer in CDM projects: Problems and policy recommendations
Chunxiu Tian (PR China)
- 15:50 - 16:00 P27.06 Planning for low carbon cities - the case of Shanghai, China
Shouxian Zhu (PR China)

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Session 30 - Impact of Climate Change on Ecosystem Services Part I

- 15:00 - 15:10 P30.01 Ecohydrology and groundwater resources management under global changes: a pilot study in presaharan basins of southern Morocco
Mohammed Yacoubi Khebiza (Morocco), L Bourab, A Ait Boughrou, A Bensalem
- 15:10 - 15:20 P30.02 Nitrogen uptake in temperate heath vegetation and soil microbes is influenced by elevated temperature, CO₂ and drought
Louise C Andresen (Denmark), A Michelsen, S Jonasson, C Beier, P Ambus
- 15:20 - 15:30 P30.03 Modelling changes in ecosystem service supply based on vegetation projections
Bálint Czúcz (Hungary), F Horváth, Z Botta-Dukát, Z Molnár
- 15:30 - 15:40 P30.04 Ecosystems at the trailing edge of climate change - the decline of Scots Pine forests at their southern distribution limits
Matthias Dobbertin (Switzerland), A Rigling
- 15:40 - 15:50 P30.05 Ozone: an increasing risk for crop yields in a future climate?
Jürg Fuhrer (Switzerland)
- 15:50 - 16:00 P30.06 Climatic change and other anthropogenic activities are affecting environmental services on the Argentinean Northwest (ANW)
Juan Antonio González (Argentina)
- 16:00 - 16:10 P30.07 Ecological consequences of climate change and how to measure them
Jens Würgler Hansen (Denmark), Mads Nedergaard, Flemming Skov
- 16:10 - 16:20 P30.08 Effects of climate change on hypoxia in the North Sea - Baltic Sea transition zone
Jørgen LS Hansen (Denmark), J Bendtsen
- 16:20 - 16:30 P30.09 A conceptual framework to analyse the effects of environmental change on ecosystem services
Paula Harrison (UK), M Rounsevell, G Luck, R Harrington, M Sykes, M Vandewalle, RUBICODE Partners
- 16:30 - 16:40 P30.10 Climatic control of the north-east atlantic ecosystem - climatic control of the North-East Atlantic ecosystem
Hjálmar Hátún (Faroe Islands), MR Payne, G Beaugrand, PC Reid, A Sandø, H Drange, B Hansen, JA Jacobsen, D Bloch
- 16:40 - 16:50 P30.11 A need for mountain perspectives: impacts of climate change on ecosystem services in the greater Hindu Kush - Himalaya region
Robert Zomer (Nepal), E Sharma
- 16:50 - 17:00 P30.12 Simulation of forest vulnerability to land use land cover and climate change in Ghana
Monica Idinoba (Burkina Faso), E Tachie-Obeng, J Nkem
- 17:00 - 17:10 P30.13 Living on the edge: relating climate change impacts to the poverty in small-scale coastal fisheries of Bangladesh
Mohammad Mahmudul Islam (Germany)
- 17:10 - 17:20 P30.14 Climate change, invasive species and toxic plant substances in soil and water
Johannes Kollmann (Denmark), BW Strobel, HC Bruun Hansen
- 17:20 - 17:30 P30.15 ICES role in the world of changing climate
Harald Loeng (Norway), A Kellermann

15:00 - 15:30 P32

Hall C

Session 32 - Economic Costs of Adapting and not Adapting to Climate Change

- 15:00 - 15:10 P32.01 Losses due to severe wind storms over Europe in a future climate
Simon Wild (Germany), T Kruschke, M Donat, D Renggli, GC Leckebusch, U Ulbrich
- 15:10 - 15:20 P32.02 Possible economical and sovereignty issues of the disappearance of island nations
Lilian Yamamoto (Japan), M Esteban

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15:00 - 17:30 P34

Hall C

Session 34 - Adapting Human Land Use to Climate Change Part I

- 15:00 - 15:10 P34.01 Reviewing concerns for illegal land use and adaptation to climate change in populated urban areas of the Lac Region
Jose Azoh (Mexico)
- 15:10 - 15:20 P34.02 Sustainable plant production in a changing world - formation of a cross-faculty network
Lisa Bjørnlund (Denmark), J Schjørring, S Christensen, O Nybroe, J Pedersen, J Eilenberg, L Munk, R Rønn, O Ciofu, S Bruun, JE Ørum
- 15:20 - 15:30 P34.03 Land capability: a strategic planning Tool for integrated climate change responses
Iain Brown (UK), W Towers, M Rivington, H Black
- 15:30 - 15:40 P34.04 Subsistence farmers' responses to climate variability and change in Kyela, Tanzania
Magreth Bushesha (UK), J Lee-Thorp, P Hopkinson
- 15:40 - 15:50 P34.05 Land management in Ghana, challenges for climatic change
Cosmas Kombat (Germany), S Lambini
- 15:50 - 16:00 P34.06 Climate change impact and adaptation in Inner Mongolia
Xingang Dai (PR China), Y Xu, G Jia, C Fu
- 16:00 - 16:10 P34.07 Adapting land use to climate change in the coast of Ondo state, southwest Nigeria
Mayowa Johnson Fasana (Nigeria), A Omojola, A Soneye
- 16:10 - 16:20 P34.08 Adapting managed forests to climate change in Southern Sweden: constraints and opportunities for altering tree species composition
Adam Felton (Sweden), K Blennow, E Andersson, L Ellingson, L Drössler
- 16:20 - 16:30 P34.09 Effect of potential future climate change on the cost-effective nonpoint source pollution reduction strategies in the Upper Mississippi River basin
Catherine Kling (USA), M Jha, S Rabotyagov, P Gassman, E Takle
- 16:40 - 16:50 P34.11 LUCC in the Philippines over the 20th century: links to population growth, food demand and trade
Thomas Kastner (The Netherlands), S Nonhebel
- 16:50 - 17:00 P34.12 Production of biomedicine under different climatic conditions - Artemisinin as study case
Karina Knudsmark Jessing (Denmark), N Cedergreen, BW Strobel
- 17:00 - 17:10 P34.13 Modeling the land requirements and potential productivity of biofuel crops in Brazil and India
David M Lapola (Germany), J Priess
- 17:10 - 17:20 P34.14 Changing farming systems in Montane Mainland Southeast Asia, resiliency and climate change
Stephen Leisz (USA)

15:00 - 18:30 P37

Hall C

Session 37 - Adapting Future Agricultural Production to Climate Change Part I

- 15:00 - 15:10 P37.01 Effects of drought and salt stress during early reproductive growth stages in faba bean and quinoa
Verena Isabelle Adolf (Denmark), S-E Jacobsen, F Liu, CR Jensen, MN Andersen
- 15:10 - 15:20 P37.02 Adapting coastal zone and marine resources to climate change: an assessment of disasters preparedness in Bangladesh
Mahbub Alam (Bangladesh)
- 15:20 - 15:30 P37.03 Deforestation and forest clearing for agriculture contributed in climate change
Tandong Calistus Jong (Cameroon), L Nelson, N Amyofacig-Cameroon
- 15:30 - 15:40 P37.04 North-south divide; contrasting impacts of climate change on crop yields in Scotland and England
Bruce DL Fitt (UK), M H Butterworth, MA Semenov, A Barnes, D Moran, JS West
- 15:40 - 15:50 P37.05 Adaptation to climatic variability and change: evidence from the New Zealand dairy industry
Nicholas Cradock-Henry (New Zealand)
- 15:50 - 16:00 P37.06 Climatic changes and agriculture in Greenland: Plant diseases in potatoes and grass fields
Lisa Munk (Denmark), E de Neergaard, P Stougaard, K Høegh
- 16:00 - 16:10 P37.07 Effect of climate change on phyllosphere microflora: plant-microorganism interactions
Yigal Elad (Israel)

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Session 37 - Adapting Future Agricultural Production to Climate Change Part I (cont.)

- 16:10 - 16:20 P37.08 Challenges of climatic change to pastoral system in rainforest zone of Southwest Nigeria
Eniola Fabusoro (Nigeria), *F Hoi-Yee*
- 16:20 - 16:30 P37.09 The Global Biodiversity Information Facility (GBIF): infrastructure, standards and access to data and tools to forecast climate change impacts on agricultural production
Samy Gaiji (Denmark), *N King, A Jarvis*
- 16:30 - 16:40 P37.10 Effect of climate change on mycotoxins contamination in grape must
Cesare Gessler (Switzerland), *M Storari, I Pertot*
- 16:40 - 16:50 P37.11 SCA method in climate change research
Levente Horváth (Hungary)
- 16:50 - 17:00 P37.12 Can adaptation stop climate change making food-rich countries like Australia food-poor?
Mark Howden (Australia), *S Crimp, A Laing, U Nidumolu, R Nelson, M Stafford-Smith*
- 17:00 - 17:10 P37.13 Sustainable water use securing food production in dry areas of the Mediterranean region - an introduction to a new EU FP7 Project
Sven-Erik Jacobsen (Denmark), *F Liu, CR Jensen, VI Adolf*
- 17:10 - 17:20 P37.14 Metrics of climate change impact and adaptation of physiologically-diverse crops
Abdullah Jaradat (USA)
- 17:20 - 17:30 P37.15 The shifting geographies of crop suitability and the implications for food and nutritional security
Andy Jarvis (Colombia), *J Ramirez, P Laderach, E Zapata, E Guevara*
- 17:30 - 17:40 P37.16 Identification of photoperiod neutral lines of bambara groundnut (*Vigna subterranea*) from Tanzania
Søren Thorndal Jørgensen (Denmark), *M Aubanton, C Harmonic, C Dieryck, SP Jacobsen, HL Simonsen, WH Ntundu, F Stadler, S Basu, JL Christiansen*
- 17:40 - 17:50 P37.17 Barley and oilseed rape production will decrease in the future climate
Rikke Bagger Jørgensen (Denmark), *SK Clausen, G Frenck, LG Linden, TN Mikkelsen, C Lunde, H Brix*
- 17:50 - 18:00 P37.18 Simulated effects of climate change and rising CO₂ on crop production and management in different regions of Germany
Kurt Christian Kersebaum (Germany), *C Nendel, W Mirschel, R Manderscheid, H-J Weigel, K-O Wenkel*
- 18:00 - 18:10 P37.19 Ecological implications of climate change on the genetic diversity and distribution of African locust bean parkia biglobossa in Central Nigeria
Emmanuel Hala Kwon-Ndung (Nigeria), *CD Chup, NA Binbol, A Ismaila*
- 18:10 - 18:20 P37.20 Identifying socio economic levers for a sustainable provision of ecosystem services in Amazonia landscapes
Patrick Lavelle (Colombia), *I Veiga, B Ramirez, X Arnaud de Sartre, V Gond, T Decaens, B Hubert, S Doleddec, JF Tourrand, M Grimaldi*

15:00 - 18:30 P39

Hall C

Session 39 - Climate Tools and Information to Support Adaptation

Chair: Dr Jill Jäger, Sustainable Europe Research Institute (SERI)

- 15:00 - 15:10 P39.01 Objectives of public economic policy and the adaptation to climate change
Stine Aakre (Norway), *DTG Rübhelke*
- 15:10 - 15:20 P39.02 Adapting to climate change, the new Met Office Hadley Centre seasonal-to-decadal system
Alberto Arribas (UK), *S Cusack, M Glover, K Peterson, M Gordon, A Maidens, A Scaife*
- 15:20 - 15:30 P39.03 Learning from stakeholders: some lessons from participatory research and climate change adaptation in practice
Alastair Brown (UK), *A Harvey*
- 15:30 - 15:40 P39.04 E-learning, climate change and carbon footprints
Christian Bugge Henriksen (Denmark), *A, Monty JR, Porter*
- 15:40 - 15:50 P39.05 Adaptation to climate change related to sustainability at Lake-Tisza in Hungary
Maria Csete (Hungary)
- 15:50 - 16:00 P39.06 Climate and environment consultancy at the German Meteorological Service
Thomas Deutschländer (Germany), *P Becker, J Namyslo, M Koßmann, B Früh,*

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15:00 - 18:30 P39

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Session 39 - Climate Tools and Information to Support Adaptation (cont.)

- 16:00 - 16:10 P39.07 The impact of seasonal forecast on farmer's strategic choices in the lake Guiers area in northern Senegal
Ndèye Seynabou Diouf (Senegal), G Leclerc, B Barbie, S Fall
- 16:10 - 16:20 P39.08 U.S. county strategies supporting abatement and adaptation to anthropogenic climate change – examples from Sonoma County
Gerald Geernaert (USA), G Syphers, R Klassen, R Andersson, R Poole
- 16:20 - 16:30 P39.09 There is a role for the territorial authorities in developing interventions and innovations to take account of climate change?
Alessandro Gretter (Italy), A Rizzoli
- 16:30 - 16:40 P39.10 An integrated cross-sector and cross-institution approach to reduce climate change induced disaster effects in a South American context
Christian Huggel (Switzerland), S Eugster, N Khabarov, M Obersteiner, JM Ramirez, N Salzmann
- 16:40 - 16:50 P39.11 Incorporating hydroclimatic variations and change into water allocation policy making and adaptation
Shaleen Jain (USA), J-S Kim, A Sengupta, K Ricupero
- 16:50 - 17:00 P39.12 Cohering community-wide adaptation: the UK Climate Impacts Programme
Kay Jenkinson (UK)
- 17:00 - 17:10 P39.13 Estimating heat stress indices from routine weather station data: an important tool to support adaptation planning
Tord Kjellstrom (Australia), B Lemke
- 17:10 - 17:20 P39.14 Adaptation to climate change in the European Union: efficiency vs. equity considerations
Dirk Rübbelke (Norway), S Aakre
- 17:20 - 17:30 P39.15 2.5 dimensions (2.5 DCC) of climate change: innovation at regional land territory management
Joel Sepulveda Irastorza (Spain), M Mendizabal Zubeldia
- 17:30 - 17:40 P39.16 Lessons learned while developing guidance for use of UKCIP08
Roger B Street (UK), A Steynor, P Bowyer
- 17:40 - 17:50 P39.17 Climate-proofing Europe: a comparative analysis of national adaptation strategies
Rob Swart (The Netherlands), R Biesbroek
- 17:50 - 18:00 P39.18 From science to practice – a network of climate offices in Germany
Renate Treffeisen (Germany), P Lemke, I Meinke, H von Storch, JW Schipper, M Kunz, C Kottmeier, S Zacharias, F Messner, C Wunram, E Keup-Thiel, B Hennemuth
- 18:00 - 18:10 P39.19 Using climate information for priority setting and to target risk management and adaptation strategies in Africa
Jeannette van de Steeg (Kenya), J Kinyangi, A Notenbaert, P Thornton, M Herrero
- 18:10 - 18:20 P39.20 A low-carbon development needs assessment to support developing countries in moving to a sustainable future
Wytze van der Gaast (The Netherlands), K Begg

15:00 - 17:30 P41

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Session 41 - Adaptation to Climate Change in Least Developed Countries - Challenges, Experiences and Ways Forward Part I

- 15:00 - 15:10 P41.01 Local actors' perception of the climate change issue in Lagos, Nigeria
Abimbola Adedayo (Nigeria)
- 15:10 - 15:20 P41.02 Adaptation strategies in coping with the impacts of global climate change on the coastal environment and resources of Bangladesh
Kawser Ahmed (Bangladesh), M Islam
- 17:30 - 17:40 P41.03 Planting window as an adaptation option to offset the likely impacts of climate change with emphasis on Rainfed areas
Humaira Sultana (Pakistan), G Hoogenboom, MM Iqbal
- 15:30 - 15:40 P41.04 Promoting local and indigenous knowledge in enhancing adaptive capacities under extreme events in Nigeria
Yemi Akegbejo-Samsons (Nigeria)

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Session 41 - Adaptation to Climate Change in Least Developed Countries - Challenges, Experiences and Ways Forward Part I (cont.)

- 15:40 - 15:50 P41.05 Adaptation to climate change among agropastoral systems: case for Zimbabwe
Leonard Unganai (Zimbabwe)
- 15:50 - 16:00 P41.06 The incentives and obstacles to implement adaptation strategies in Pacific Island Countries: lessons learned from past donors' assistance
Yumiko Asayama (Australia)
- 16:10 - 16:20 P41.07 Environmental impact and possible adaptation initiatives in Southwestern Coastal Bangladesh in response to climate change
Mehdi Azam (Bangladesh), AA Noor, RK Ghose
- 16:20 - 16:30 P41.08 How does the EU integrate climate change issues in its development aid policies? Short term reaction versus 'capacity approaches'.
Marie Ange Baudoin (Belgium)
- 16:30 - 16:40 P41.09 Adaptation to climate change: a call for a broader global approach
Alexandra Conliffe (UK)
- 16:40 - 16:50 P41.10 The bright side of adaptation
Benjamin Garnaud (France)
- 16:50 - 17:00 P41.11 Adaptation in agricultural systems to climate change in highlands of the Andes
Carlos Gomez (Peru), M Fernandez, M Garcia
- 17:00 - 17:10 P41.12 Strategies to adapt to an uncertain climate change
Stephane Hallegatte (France)
- 17:10 - 17:20 P41.13 Enhancing adaptation of the pastoralists to climate change through drought contingency measures in arid Northern Kenya
M Warui Harun (Kenya)
- 17:20 - 17:30 P41.14 Climate volatility and the poor in Tanzania
Channing Arndt (Denmark), N Diffenbaugh, T Hertel, N Ramankutty, J Thurlow, SA Ahmed

15:00 - 16:00 P42

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Session 42 - Adaptation and Climate Risk Insurance

- 15:00 - 15:10 P42.01 The impact of heat waves on the elderly living in Australia: how should a heat health warning system be developed to protect them?
Peng Bi (Australia), R van Iersel
- 15:10 - 15:20 P42.02 Greenhouse gas insurance and the strategic aspects of funding adaptation
Seraina Buob (Switzerland), G Stephan
- 15:20 - 15:30 P42.03 Climate change effects on agricultural risk management
Giuseppe Cucuzza (Italy)
- 15:30 - 15:40 P42.04 A contribution of an insurance foundation to the study of urban heat waves and their societal impact
Bénédicte Dousset (France), K Laaidi, H Oliviero, A Zeghnoun, E Giraudet, F Gourmelon, P Bretin, S Vandentorren
- 15:40 - 15:50 P42.05 Raining variability of the beginning of the agricultural season and adaptation measurements in Department of the ills (Benin, West Africa)
Ibouraïma Yabi (Benin), M Boko, F Afouda

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15:00 - 15:30 P43

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Session 43 - Integrating Climate Change into Global Sustainability

- 15:00 - 15:10 P43.01 Climate change policies in the polar regions: trade offs from an international policy laboratory
Sam Johnston (Japan)
- 15:20 - 15:30 P43.02 Integrating regional policies through scientific view to reduce vulnerability and impact of climate change using a new conceptual model, Euskal-Adapt
Maddalen Mendizabal (Spain), E Feliu, J Sepúlveda
- 15:10 - 15:20 P43.03 Analysis of price asymmetry in the international and domestic vegetable oil markets for achieving sustainable agriculture in developing countries
T Nakajima (Japan), H Matsuda

15:00 - 15:30 P45

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Session 45 - From Geo-Perturbation to Geo-Management

- 15:00 - 15:10 P45.01 Towards the Carbon Equivalent Neutral landscape: Directions for Further Research and the Example of Appalachia in the Eastern U.S.
David Benjamin (Norway), J Todd
- 15:10 - 15:20 P45.02 Geo-engineering side effects: heating the tropical tropopause by sedimenting sulphur aerosol?
Patricia Kenzelmann (Switzerland), D Weissenstein, T Peter, B Luo, S Fueglistaler, E Rozanov, L Thomason
- 15:20 - 15:30 P45.03 Wave-powered destratification for hurricane suppression, acidity reduction, carbon storage and enhanced phytoplankton, dimethyl sulphide and fish production
Stephen Salter (UK)

15:00 - 15:15 P46

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Session 46 - Consequences of Acidification of Land and Ocean

- 15:00 - 15:10 P46.01 Assessing climate change impacts on primary production and calcification on a coral reef – a pilot study of ocean acidification processes on the Great Barrier Reef
Lida Teneva (USA), RB Dunbar, DA Muccarione, M Long, C McDonald, Jeffrey Koseff

15:00 - 16:30 P47

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Session 47 - Managing Food in a Climate Constrained World

- 15:00 - 15:10 P47.01 Women and water for development: a practical journey to food security and poverty reduction in Africa
David Anokye Asamoah (Ghana)
- 15:10 - 15:20 P47.02 A model for the assessment of the effect of climate change on plant-pathogen-microorganism interactions
Yigal Elad (Israel)
- 15:20 - 15:30 P47.03 Effect of some antioxidants on canola plants grown under soil salt stress condition
El Sayed Khatab (Egypt), M Saker
- 15:30 - 15:40 P47.04 Sustainable crop production under limited water supply
Christian Jensen (Denmark), F Liu, SE Jacobsen, M Andersen, F Plauborg
- 15:40 - 15:50 P47.05 Understanding climate change at micro level: a case study of three villages in South India
Kamepalli Lenin Babu (India), MS Umesh Babu, BS Harish Kumar, N Latha
- 15:50 - 16:00 P47.06 An agricultural perspective to insure sustainability of the future world crop production for food security
Tinne Midtgaard (Denmark)
- 16:00 - 16:10 P47.07 Agro-economic implications of weather variation on oil palm yield and yield components in the humid forest zone of Cameroon
Fritz Oben Tabi (Cameroon), E Muki
- 16:10 - 16:20 P47.08 Climate change and agricultural production - analysis of interrelationship and evaluation of food security in coastal area of Benin
Oscar Teku (Germany), B Mallick, J Vogt

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15:00 - 15:45 P48

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Session 48 - Earth System Governance

- 15:00 - 15:10 P48.01 Framing adaptation: a challenge for building institutions
Britta Horstmann (Germany)
- 15:10 - 15:20 P48.02 Beyond homo economicus: how non standard preferences should change the way we think of institutions and environmental governance
Cory McCruden (USA)
- 15:20 - 15:30 P48.03 Engaging communities in informed decision making and action to prevent dangerous climate change
John Wiseman (Australia), *J Fritze, L Williamson*
- 15:30 - 15:40 P48.04 Voluntary climate programs and their protection and transformation impacts
Urs Bitterling (Austria)

15:00 - 16:00 P49

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Session 49 - The Role of Integrated Assessment Models in Handling Climate Change

- 15:00 - 15:10 P49.01 Improving the representation of climate-economy feedbacks in integrated assessments
Neil Robert Edwards (UK)
- 15:10 - 15:20 P49.02 The Community Integrated Assessment System CIAS, a new approach to distributed integrated modelling
Rachel Warren (UK), *S de la Nava Santos, N Arnell, M Bane, T Barker, P Berry, R Ford, H-M Fuessel, R Hankin, J Hinkel, C Linstead, R Nicholls, J O'Hanley, TJ Osborn, S Raper, G Riley, HJ Schellnhuber*
- 15:20 - 15:30 P49.03 Where next with global environmental scenarios?
Simone Pulver (USA), *B O'Neill, S VanDeveer, Y Garb*
- 15:30 - 15:40 P49.04 Improving the use of integrated assessment models: reconciling model results with user needs
Serge IP Stalpers (The Netherlands)
- 15:40 - 15:50 P49.05 Temperature increase of 21st century mitigation scenarios
Detlef P van Vuuren (The Netherlands), *M Meinshausen, G-K Plattner, F Joos, KM Strassman, SJ Smith, TML Wigley, SCB Raper, K Riahi, P de la Chesnaye, MGJ den Elzen, J Fujino, K Jiang, N Nakicenovic, S Paltsev, JM Reilly*

15:00 - 17:45 P50

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Session 50 - Enabling Long Term Climate Policy

- 15:00 - 15:10 P50.01 Potential macroeconomic benefits of stringent greenhouse-gas stabilisation targets: modelling the 2°C target in CIAS with E3MG 2000-2100
Terry Barker (UK), *S Santos, Å Scricciu, S Tashchilova, R Warren*
- 15:10 - 15:20 P50.02 Long-term climate policy in Croatia - far far away?
Ana-Maria Boromisa (Croatia), *S Tima, P Gracin*
- 15:20 - 15:30 P50.03 Analysis of North American action plans and policies on climate change
Yves Gagnon (Canada), *E Godbout-Beaulieu, R Daigle*
- 15:30 - 15:40 P50.04 Accelerating financing of CDM and voluntary emission reduction projects
Jai Kumar Gaurav (India)
- 15:40 - 15:50 P50.05 Does the Clean Development Mechanism Contribute to Sustainable Development?
Yongfu Huang (UK), *T Barker*
- 15:50 - 16:00 P50.06 Lessons from the Global Biodiversity Information Facility (GBIF): global infrastructure, data and tools to inform climate and biodiversity policy
Nick King (Denmark), *S Gaiji, A Jarvis*
- 16:10 - 16:20 P50.07 Sustainable urban infrastructure for long-term carbon emissions mitigation in China
Jun Li (France), *M Colombier*
- 16:20 - 16:30 P50.08 North American climate change governance: past, present and future
Henrik Selin (USA), *S van Deveer*
- 16:30 - 16:40 P50.09 Political and economic determinants of long-term carbon transitions
Michael Aklin (Germany), *DF Sprinz, D Fuchs*
- 16:40 - 16:50 P50.10 Policy implications from the Japan-UK Low-Carbon Society (LCS) modelling project
Tim J Foxton (UK), *N Strachan, J Fujino*

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15:00 - 17:45 P50

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Session 50 - Enabling Long Term Climate Policy (cont.)

- 16:50 - 17:00 P50.11 Can concerns over energy insecurity enable climate policy in China?
Guodong Sun (USA)
- 17:00 - 17:10 P50.12 Mitigating greenhouse gas emissions through local land use planning
Zhenghong Tang (USA), C Hussey
- 17:10 - 17:20 P50.13 The use of Border Tax Adjustment as a tool to reduce greenhouse gas emissions
Helen Tung (UK)
- 17:20 - 17:30 P50.14 Governance of adaptation: proposing a process model for managing long-term climate policies
Kim van Nieuwaa (The Netherlands), P Driessen, T Spit, K Termeer
- 17:30 - 17:40 P50.15 Humanitarian implications of climate change
Irina Zodrow (Switzerland), J Kirsch-Wood

15:00 - 15:30 P52

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Session 52 - Economic Costs of not Mitigating Climate Change

- 15:00 - 15:10 P52.01 The future economic costs of climate change: a preliminary perspective from the insurance industry
Andrew Dlugolecki (UK)
- 15:10 - 15:20 P52.02 Communicating climate change: challenges ahead and action needed
Walter Leal Filho (Germany)
- 15:20 - 15:30 P52.03 Estimating the future increase in damage costs due to climate change-induced floods in Switzerland
Frank Vöhringer (Switzerland), B Schädler

15:00 - 16:15 P53

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Session 53 - Role of Media in Contributing in Combating Climate Change

- 15:00 - 15:10 P53.01 Vermont experience
Alan K Betts (USA)
- 15:10 - 15:20 P53.02 The Arctic climate discourses Greenland and the double climate strategies
Lill Rastad Bjørst (Denmark)
- 15:20 - 15:30 P53.03 The globalised public sphere as a risk forum: climate changes and international news media
Mikkel Fugl Eskjær (Denmark)
- 15:30 - 15:40 P53.04 Addressing interdisciplinary aspects of climate change on a global level - the worldwide scientific online climate conference "Climate2008/Klima2008"
Franziska Mannke (Germany)
- 15:40 - 15:50 P53.05 Danish newspapers coverage of the climate change debate from 2001-2008 - a rhetorical case study of forensic fallacies and deliberative democratic consequences in Weekendavisen.
Esben Norrbom (Denmark)
- 15:50 - 16:00 P53.06 Effectiveness of public communication campaigns in promoting adaptation to climate change in Africa
Wilson Okaka (Uganda)
- 16:00 - 16:10 P53.07 Achieving a balanced view? A comparative analysis of newspaper coverage of climate change in Norway and Sweden, 2002 -2008
Marianne Ryghaug (Norway), TM Skjølsvold

15:00 - 16:15 P56

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Session 56 - Human Migration - Geopolitical Conflicts - Climate Security

- 15:00 - 15:10 P56.01 The causes of the Romanian desert and means of avoiding a possible human migration
Anca Dusca, S Badea (Romania)
- 15:10 - 15:20 P56.02 Climate change, human rights and land displacement: three sides of the same coin
Amin George Forji (Finland)
- 15:20 - 15:30 P56.03 Does resource scarcity increase the severity of conflicts in Sub-Saharan Africa
Mette Kildegaard Graversen (Denmark)

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15:00 - 16:15 P56

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Session 56 - Human Migration - Geopolitical Conflicts - Climate Security (cont.)

- 15:40 - 15:50 P56.05 Climate change and forced migration Bangladesh
Haakon Levin (Norway)
- 15:50 - 16:00 P56.06 Climate security and human security: convergence on policy requirements
Hiroshi Ohta (Japan)
- 16:00 - 16:10 P56.07 Climate, conflict and pollution in Niger Delta in Nigeria
Okuku Ediang (Nigeria), A Ediang

Session 07 - Informing the Future by Understanding the Past Part I

- 10:45 - 10:55 P07.01 Projecting 21st century GHG emissions through dynamic simulation modelling of the global energy-environment-economy (E3) system 1972-2006
Terry Barker (UK)
- 10:55 - 11:05 P07.02 Sea-level rise and associated feedbacks on climate operating on intermediate geological time scale
Christian J Bjerrum (Denmark)
- 11:05 - 11:15 P07.03 Quantifying holocene climate change in Denmark
Kendrick Brown (Denmark), J Birks, A Bjune, H Seppa, P Rasmussen
- 11:15 - 11:25 P07.04 Vulnerability of fragile forest ecosystem of North East India in context with the global climate change: an ecological projection
Pranab Bujarbarua (India), S Baruah
- 11:25 - 11:35 P07.05 Distinguishing global warming from natural variability in Irish sea surface temperature records
Heather Cannaby (Ireland), S Husrevoglu, G Nolan
- 11:35 - 11:45 P07.06 Can proxy data actually tell us about the past climate?
Bo Christiansen (Denmark), T Schmith, P Thejll
- 11:45 - 11:55 P07.07 Holocene coastal dunefield evolution, Jutland, Denmark: a record of climate change over the past 5000 years
Lars Clemmensen (Denmark), A Murray, J Heinemeier, R De Jong
- 11:55 - 12:05 P07.08 The global anoxic 'SPICE' event ~500 Myrs ago. Trace metal depletion observed from Molybdenum stable isotope compositions
Tais W Dahl (Denmark), B Gill, E Hammarlund, T Lyons, AD Anbar, G Gordon, DE Canfield
- 12:05 - 12:15 P07.09 Challenges in exploring the climate change and extreme weather events in India
SK Dash (India)
- 12:15 - 12:25 P07.10 Fennoscandian trigger for D/O events
Trond Dokken (Norway), K Nisancioglu, C Li, D Battisti (Norway)
- 12:25 - 12:35 P07.11 Climatic processes: quaternary colluviation in the upper Paraná River hydrographic basin, Brazil
Alethéa Ernandes Martins Sallun (Brazil), K Suguio
- 12:35 - 12:45 P07.12 Shell-middens and peat-bog of southeastern Brazil as evidence of holocene climate change
Alethéa Ernandes Martins Sallun (Brazil), W Sallun Filho, K Suguio, PE de Oliveira, MJ Garcia, RS Fernandes, C da Silva Santos, VB de Medeiros, MC Santiago-Husse, w Duleba, M Babinsky, SMCL Gliolia
- 12:45 - 12:55 P07.13 Effect of changes in insolation in a complex climate model.
Ksenia Glushak (Germany), U Mikolajewicz, G Schurgers
- 12:55 - 13:05 P07.14 Unravelling the then and there to understand the here and now: relevance of palaeoclimatology to climate change education
Simon Haslett (UK)
- 13:05 - 13:15 P07.15 Climate change and modern human evolution
Renee Hetherington (Canada), RGB Reid
- 13:15 - 13:25 P07.16 Holocene climate change and environmental reconstruction in East Greenland
Bjarne Holm Jakobsen (Denmark)
- 13:25 - 13:35 P07.17 The biomarker method: how organic soil chemistry and inverse modeling help unravel upper forest line dynamics in the Ecuadorian Andes
Femke Tonneijck (The Netherlands), B Jansen, E Van Loon, K Verstraten, H Hooghiemstra
- 13:35 - 13:45 P07.18 Loess as a climatic register – an example from Poland and western part of Ukraine
Zdzislaw Jary (Poland)
- 13:45 - 13:55 P07.19 Human behaviour towards climatic change during the 4th millennium BC in the Swiss Alpine forelands
Sabine Karg (Denmark), JN Haas, U Leuzinger, M Magny
- 13:55 - 14:05 P07.20 Long-run relationships among temperature, CO₂, methane, ice and dust over the last 420,000 years: cointegration analysis of the Vostok ice core data
Robert Kaufmann (Denmark), K Juselius

Session 07 - Informing the Future by Understanding the Past Part I (cont.)

- 14:05 - 14:15 P07.21 Relationship between SOI and global temperature anomalies: nonlinear approach
Valeriy Khokhlov (Ukraine), *A Glushkov, N Loboda*
- 14:15 - 14:25 P07.22 Extreme climate conditions in Sweden in a 100,000 year perspective as simulated by global and regional climate models
Erik Kjellström (Sweden), *J Brandefelt, G Strandberg, B Smith, B Wohlfart, J-O Näslund*
- 14:25 - 14:35 P07.23 North Atlantic climate and deep water variability since 600 AD
Helga Kleiven (Norway), *IV Johansen, U Ninnemann*
- 14:35 - 14:45 P07.24 Climate change: lessons from the past set future mitigations strategies in arid and semi-arid Kenya
John K Lekasi (Kenya), *PL Woomer*

Session 14 - Differential Effects of Climate Change on Human Health and Well-Being

- 10:45 - 10:55 P14.01 Deaths in a sunburnt country: differential mortality responses to temperatures in a 'hot' country
Hilary Bambrick (Australia), *K Dear, I Hanigan*
- 10:55 - 11:05 P14.02 Climate change and population health in China: what do we know and what could we do?
Peng Bi (Australia)
- 11:05 - 11:15 P14.03 A survey of elderly perception to heat waves in Adelaide, South Australia: a qualitative study
Peng Bi (Australia), *R van Iersel*
- 11:15 - 11:25 P14.04 Methodological issues in the study of climate and gastroenteritis
Ainslie Butler (Australia), *G Hall*
- 11:25 - 11:35 P14.05 Impact of climate change on poor and marginalized people in high mountain region, Nepal
Shambhu Charmakar (Nepal), *D Mijar*
- 11:35 - 11:45 P14.06 Wellbeing and climate change: the psychological consequences of flooding
Andrew Crabtree (Denmark)
- 11:45 - 11:55 P14.07 Global health equity and climate stabilisation - need for a common agenda
Sharon Friel (Australia), *M Marmot, T McMichael, T Kjellstrom, D Vagero*
- 11:55 - 12:05 P14.08 Framework for COPD forecasting in the UK using weather and climate change predictions
Deborah Hemming (UK), *A Colman, P James, N Kaye, P Marno, D McNeill, R McCarthy, T Laing-Morton, E Palin, P Sachon, C Sarran, I Taylor*
- 12:05 - 12:15 P14.09 Health impacts of climate change mitigation
Virpi Kollanus (Finland), *M Jantunen, MV Pohjola, P Ahtoniemi, JT Tuomisto*
- 12:15 - 12:25 P14.10 A novel methodology to identify vulnerable populations during heat waves
George Luber (USA), *D Johnson, M McGeehin*
- 12:25 - 12:35 P14.11 Climate change, poverty and development in the coast region of Tanzania
Adolfo Mascarenhas (Tanzania)
- 12:35 - 12:45 P14.12 Gender dimensions of differential health effects of climate change induced water-logging: a case study from coastal Bangladesh
Sharmind Neelormi (Bangladesh), *N adri, AU Ahmed*
- 12:45 - 12:55 P14.13 Climate change adaptation actions in northern Australian communities using scenario modelling
Javier Puig (Australia), *C Huchery, N Collier, S Garnett*
- 12:55 - 13:05 P14.14 Climate change: direct and indirect impact on the upsurge of tick-borne encephalitis (TBE) in Italy
Annapaola Rizzoli (Italy)
- 13:05 - 13:15 P14.15 Global health and economic impacts of future ozone and particulate pollution
Noelle Selin (USA), *J Reilly, S Paltsev, R Prinn*
- 13:15 - 13:25 P14.16 Combined analysis of air pollution and aeroallergens in a climatic perspective
Carsten Ambelas Skjøth (Denmark), *T Sigsgaard, J Sommer, O Hertel, P Wählin, H Petersen*
- 13:25 - 13:35 P14.17 Copenhagen: a harbinger for ragweed (Ambrosia) in Northern Europe under climate change?
Carsten Ambelas Skjøth (Denmark), *H Petersen, J Sommer, M Smith*

Session 14 - Differential Effects of Climate Change on Human Health and Well-Being (cont.)

- 13:35 - 13:45 P14.18 Local governments' perception on effects of climate change on human health and well-being
Jeny Staykova (Bulgaria)
- 13:45 - 13:55 P14.19 Climate change and the human immune system: ultraviolet radiation & immunity study, assessing the impact of ultraviolet radiation on the immune response to primary vaccination in Australian adults
Ashwin Swaminathan (Australia), R Lucas, M Cook, K Dear, AJ McMichael
- 13:55 - 14:05 P14.20 Vulnerability to heat-related morbidity in Copenhagen, Denmark
Janine Wichmann (Denmark), Z Jovanovic Andersen, M Ketzel, S Loft
- 14:05 - 14:15 P14.21 Future temperature-related morbidity burdens of salmonellosis and Ross River Virus infection in South Australia, a scenario-based projection
Ying Zhang (Australia), P Bi, J Hiller
- 14:15 - 14:25 P14.22 Projected temperature-related disability burdens of bacillary dysentery in temperate and subtropical cities of China
Ying Zhang (Australia), P Bi, Y Sun, J Hiller
- 14:25 - 14:35 P14.23 Projected impacts on heat-related mortality from changes in the mean and variability of temperature with climate change
Simon Gosling (UK), J Lowe, G McGregor

Session 29 - Climate Change and Water Systems

- 10:45 - 10:55 P29.01 Implications of climate change in relation to water related disasters in South Asian countries
Ahsan Uddin Ahmed (Bangladesh)
- 10:55 - 11:05 P29.02 Waterbirds as bio-indicators of seasonal - climatic changes in river basin properties: eight years monthly monitoring in lower Sanaga, Cameroon
Gordon Ajonina (Cameroon), J Amougou, I Ayissi, P Ajonina, E Ntobe, M Dongmo
- 11:05 - 11:15 P29.03 Climate change impacts on fisheries production in land-water interface
Yemi Akegbejo-Samsons (Nigeria)
- 11:15 - 11:25 P29.04 Climate change and precipitation - Consequences of more extreme precipitation regimes for terrestrial ecosystems
Claus Beier (Denmark), A Knapp, D Briske
- 11:25 - 11:35 P29.05 Sun activities cause climate change
Horst Borchert (Germany)
- 11:35 - 11:45 P29.06 Temporal landsat TM series analysis to evaluate desertification process and its causes and effects, Piauí state, northeast of Brazil
Carolina Carvalho (Brazil), R Almeida-Filho
- 11:45 - 11:55 P29.07 Research of climate change in the Croatian lowland in the frame of the COST Action 734
Visnja Vucetic (Croatia), K Cesarec
- 11:55 - 12:05 P29.08 The effects of climatic change on groundwater and ecosystem services in a Biosphere Reserve from southern Morocco
Mohammed Yacoubi Khebiza (Morocco)
- 12:05 - 12:15 P29.09 Impacts of climate change on water resources of Nepal: the physical and socio-economic dimensions
Narayan Prasad Chaulagain (Nepal)
- 12:15 - 12:25 P29.10 Social learning for climate change adaptation - knowledge and action across scales and levels
Maria Falaleeva (The Netherlands), C Albert
- 12:25 - 12:35 P29.11 Adaptation of water management institutions to climate change
Sanford Gaines (USA)
- 12:35 - 12:45 P29.12 Climate change and irrigation water requirement at Jaguaribe river basin, semi-arid northeast of Brazil
Rubens Gondim (Brazil), MA Castro, A Maia, S Evangelista
- 12:45 - 12:55 P29.13 Ouranos: a multidisciplinary approach to impact assessment and adaptation to climate change as applied to water resources
André Musy (Canada), R Roy, R Turcotte

Session 29 - Climate Change and Water Systems (cont.)

- 12:55 - 13:05 P29.14 Climate change: impact, adaptation and integrated groundwater management in the North Sea and Baltic Sea regions
Klaus Hinsby (Denmark), *TS Sonnenborg, HJ Henriksen, KG Villholth*
- 13:05 - 13:15 P29.15 Sustainability of flooding defence in rural areas in the context of climate change in China
Cailing Hu (UK)
- 13:15 - 13:25 P29.16 Institutional adaptations for long-term adaptations to climate and water stress session 29 climate change and water systems
Harry Diaz (Canada), *D Corkal, B Hurlbert*
- 13:25 - 13:35 P29.17 Changes in Hadley circulation, azores high and winter precipitation over East Africa
Muhammad Jawed Iqbal (Pakistan), *S Hameed*
- 13:35 - 13:45 P29.18 Sustainability of western North American hydrosystems: use-inspired research to understand nonstationary climate, flow regulation, and ecological flows needs
Shaleen Jain (USA), *J Chandler, J Eischeid, R Pulwarty, T Melis, D Topping*
- 13:45 - 13:55 P29.19 Hydrological effects of projected climate changes 2010-2039 in the extensively irrigated Aral Sea drainage basin
Jerker Jarsjö (Sweden), *C Prieto, G Destouni, Y Shibuo*
- 13:55 - 14:05 P29.20 Benefits on climate change adaptation from small and medium scale hydropower plants, Vietnam
Roar Askær Jensen (Denmark)
- 14:05 - 14:15 P29.21 Impacts of Europe's changing climate - 2008 indicator based assessment
Andre Jol (Denmark), *F Raes, B Menne*
- 14:15 - 14:25 P29.22 Effects of proximity to water on the attractiveness of residential locations in Trondheim, Norway.
Tom Kauko (Norway)
- 14:25 - 14:35 P29.23 Climate change and water systems - an overview
Lakshmi Narasimharao Kodali (India), *KA Miller, PK Velaga*
- 14:35 - 14:45 P29.24 Effects of elevated CO₂ on soil physicochemical characteristics under Free Air CO₂ Enrichment (FACE) technology
Abbas Shahdi Kumeleh (Iran), *P Sharmila, DC Uprety, PP Saradhi*
- 14:45 - 14:55 P29.25 Reduction of water levels on lake Victoria due to climate change
Moses Kusemererwa (Uganda)
- 14:55 - 15:05 P29.26 Climate change in the water framework directive process – an analysis of the perspective of the public
Sanne Vammen Larsen (Denmark)
- 15:05 - 15:15 P29.27 Climate change and disaster management in India: special reference to water resources
Rajesh Mall (India)
- 15:15 - 15:25 P29.28 Examining the nexus between depletion of forests, wetlands, green cover and the deepening water crisis in Uganda
Twesigye Morrison Rwakakamba (Uganda)
- 15:25 - 15:35 P29.29 Potential Impacts of climate changes on the availability of water resources in the basin of Okpara in Benin (West Africa)
Romarie Ogouwal (Benin), *H Totin, M Boko*
- 15:35 - 15:45 P29.30 Impacts of climate change on the hydrological cycle: application to France river basins
Christian Pagé (France), *J Boé, F Habets, E Martin, L Terray*
- 15:45 - 15:55 P29.31 Challenges & issues in climate change - how vulnerable is Sri Lanka as a small island country
Prabhath De Silva Patabendi (Sri Lanka)
- 15:55 - 16:05 P29.32 Evidences of climate and environmental change on water resources and malaria in Colombia
German Poveda (Colombia)
- 16:05 - 16:15 P29.33 Climate change and water resource management in the Senegal River basin
Kjeld Rasmussen (Denmark), *S Stisen, JH Christensen, I Sandholt*
- 16:15 - 16:25 P29.34 Climate change and management of water recycle & reclamation systems
F Michael Saunders (Singapore)
- 16:25 - 16:35 P29.35 Variation of temperature and its effect on the water resources of Nepal
PC Shakti (Belgium), *A Pokhrel*

Session 29 - Climate Change and Water Systems (cont.)

- 16:35 - 16:45 P29.36 Spatial and temporal analysis of drought and summer precipitation in Nepal under climate change
Madan Sigdel (Japan), M Ikeda
- 16:45 - 16:55 P29.37 Global climate change and sustainable water management for energy production in the Niger Basin of Nigeria
Attah Peter Sola (Nigeria), JG Adeniran
- 16:55 - 17:05 P29.38 Coherent adaptation and conflict prevention: lessons from the water sector
Julia Trombetta (The Netherlands), J Bouma
- 17:05 - 17:15 P29.39 Institutions and Societal Impacts of Climate in the Arizona-Sonora Portion of the U.S.-Mexico Border Region
Robert Varady (USA)
- 17:15 - 17:25 P29.40 The neglected role of groundwater in climate change adaptation and disaster risk reduction
Karen G Villholth (Denmark)
- 17:25 - 17:35 P29.41 Adapting to climate change: the introduction of water retention in Dutch and Hungarian water management
Saskia Werners (The Netherlands), D Roth, J Warner
- 17:35 - 17:45 P29.42 Projections of water availability for climate adaptation and mitigation
Andy Wiltshire (UK), R Betts, P Falloon, D Smith

Session 30 - Impact of Climate Change on Ecosystem Services Part II

- 10:55 - 11:05 P30.16 Approaches to ecosystem services assessment and drivers of change in forest ecosystems
Sandra Luque (France), M Kallio
- 11:05 - 11:15 P30.17 Factors determining soil respiration in tropical savanna-wetland mosaic in the Okavango delta, Botswana
Brian Mantlana (South Africa), A Arneth, E Veenendaal, P Wohland, P Wolski, O Kolle, J Lloyd
- 11:15 - 11:25 P30.18 Ecosystem accounting: climate change and governance of ecosystem services in Mediterranean coastal wetlands
Jacqueline McGlade (Denmark), J-L Weber
- 11:25 - 11:35 P30.19 Effect of climate parameters on mud crab (*Scylla serrata*) production in Australia
Jan-Olaf Meynecke (Australia)
- 11:35 - 11:45 P30.20 Nordic Nature Indicators of Climate Change (NICC) - a Nordic cooperation
Maria Mikkelsen (Denmark), TS Jensen, Bo Normander, U Grandin, O Inghe, E Løbersli, M Jaremalm, AP Auvinnen, A Elmarsdottir, S Gammeltoft, H Debes, HE Svart
- 11:45 - 11:55 P30.21 Destroyed forests, destroyed livelihoods, destroyed climate
Nicholas Ngece (Kenya), B Kanyua
- 11:55 - 12:05 P30.22 Livestock diversity and climate change
Beate Scherf (Italy), I Hoffmann
- 12:05 - 12:15 P30.23 Climate change experiments in vulnerable ecosystems across Europe
Inger Kappel Schmidt (Denmark), C Beier, P de Angelis, P Duce, B Emmett, G Kroel-Dulay, J Peñuelas, D Spano, A Tietema
- 12:15 - 12:25 P30.24 A risk analysis for world ecosystems under future climate change
Marko Scholze (UK), W Knorr, N Arnell, C Prentice
- 12:25 - 12:35 P30.25 Climate change and Indian sub-continent: role and contribution of Himalaya
Subrat K Sharma (India)
- 12:35 - 12:45 P30.26 Livelihoods and forestry programme is good for Nepal
Hari Tiwari (Nepal), MR Pandey
- 12:45 - 12:55 P30.27 Assessing global contributions of lesser-known soil invertebrates to ecosystem services under climate change scenarios
Diana H Wall (USA), E Ayres, T Wu, RD Bardgett, JR Garey
- 12:55 - 13:05 P30.28 Increasing impacts of climate change upon ecosystems with increasing global mean temperature rise
Rachel Warren (UK), J Price, A Fischlin, G Midgley, S de la Nava Santos

Session 30 - Impact of Climate Change on Ecosystem Services Part II (cont.)

- 13:05 - 13:15 P30.29 Uncertainty analysis on forest carbon sink forecast with varying measurement errors: a data assimilation analysis
Ensheng Weng (USA), C Gao, Y Luo, R Oren

Session 31 - Biodiversity: Enhancement of Resilience or Facilitating Transformation?

- 10:55 - 11:05 P31.01 Photosynthetic characteristics of landraces of rice from Kumaun Himalayan region: Learning lessons for the future in response to climate change
Rajneesh Kumar Agnihotri (India), LS Palni, SK Nandi, S Chandra
- 11:05 - 11:15 P31.02 The Global Biodiversity Information Facility (GBIF): infrastructure, standards, access to data and tools to forecast climate change impacts on biodiversity
Nick King (Denmark), A Jarvis, S Gaiji
- 11:15 - 11:25 P31.03 Above and belowground phenology in a heathland during future climate change
Jane Kongstad Pedersen (Denmark), MF Arndal, IK Schmidt
- 11:25 - 11:35 P31.04 Effect of climate change on tree species distribution to support the elaboration of adaptive management strategies in natural protected areas
Fabio Attorre (Italy), M Vitale, F Tomasetto, A La Posta, F Fracesconi, R Valenti, F Bruno
- 11:35 - 11:45 P31.05 Noah's Arc or world wild web? Perspectives on biodiversity conservation in global scenarios
Carijn Beumer (The Netherlands)
- 11:45 - 11:55 P31.06 Development of management strategies and policy on the Indian Himalayan biodiversity emerging through impact of climate change
Sas Biswas (India)
- 11:55 - 12:05 P31.07 The endemic aquatic invertebrate fauna of the Cape Floristic Realm: what does the future hold?
Jenny Day (South Africa), B Day
- 12:05 - 12:15 P31.08 The impact of land use change on biodiversity loss in Uganda
Janet Bumpi (Uganda), H Kayondo Kitone
- 12:15 - 12:25 P31.09 Ecosystem effects of climate change on the Seychelles islands: current impacts and the potential for resolution
Justin Gerlach (UK)
- 12:25 - 12:35 P31.10 Municipal protected areas as policy instruments to enhance ecosystem resilience. Lessons from Latin American experiences
Dirk Hoffmann (Bolivia)
- 12:35 - 12:45 P31.11 Potential effects of climate change on vegetation zonation and c and n dynamics in islands of the Okavango Delta, Botswana
Kelebogile Mfundisi (Botswana)
- 12:45 - 12:55 P31.13 Herbs are hurt, shrubs will thrive in a warmer arctic climate results of ITEX - The International Tundra Experiment
Per Mølgaard (Denmark)
- 12:55 - 13:05 P31.14 Is a recent increase of the Greenland fish fauna caused by climate change?
Peter Rask Møller (Denmark)
- 13:05 - 13:15 P31.15 Combined effects of temperature due to e.g. climate change and endocrine disruptors on sex steroid titres in the common European frog, *Rana temporaria*
Tomasz Ciesielski (Denmark), B Styriahave, M Hansen, B Jenssen, B Halling-Sørensen
- 13:15 - 13:25 P31.16 Biodiversity science into climate change policy – a perspective from the UK
Michael Usher (UK), D Procter
- 13:25 - 13:35 P31.17 Prediction and mitigation of undesirable change in semi-natural grassland due to extreme droughts and hay management
Andreas Stampfli (Switzerland), M Zeiter
- 13:35 - 13:45 P31.18 Expanding the evaluation of species distribution models to guide their assessment of climate impacts
Alexandra D Syphard (USA), J Franklin

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Session 31 - Biodiversity: Enhancement of Resilience or Facilitating Transformation? (cont.)

- 13:45 - 13:55 P31.19 Wetlands under a changing climate: live or let die?
Rudy van Diggelen (Belgium), A Grootjans, W Kotowski
- 13:55 - 14:05 P31.20 Challenges in global biodiversity conservation in the in the era of climate change
Yoseph Assefa Woldeamanuel (Ethiopia)

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Session 33 - Adapting Urban Areas to Climate Change

- 10:45 - 11:55 P33.01 Modeling temperature and humidity variations of urban green areas
Fabian Bochaca (Argentina), E Puliafito
- 10:55 - 11:05 P33.02 The importance of adapting to climate change in French urban areas: examples from energy and transportation infrastructures
Alexia Leseur (France), M Mansanet-Bataller, M Hervé-Mignucci, I Cochran
- 11:05 - 11:15 P33.03 Urban vulnerability at low basins of the Mamo, Tacagua and La Zorra rivers, in Vargas State, Venezuela
Jesus Delgado (Venezuela)
- 11:15 - 11:25 P33.04 Sustainable parks: preparing urban public green spaces for a changing climatic situation
Stephanie Drlik (Austria), A Muhar, L Licka
- 11:25 - 11:35 P33.05 Knowledge networking for climate resilient urban regions
Thomas Elmqvist (Sweden), C Alfsen
- 11:35 - 11:45 P33.06 Climatic change and its human dimensions in Pearl River Delta, southern China
Haoyang Dou (PR China), X Zhao
- 11:45 - 11:55 P33.07 Approaching Inter-disciplinary planning of urban drainage retrofits
Marina Bergen Jensen (Denmark), O Fryd , A Bruus , J. Jeppesen , ST Ingvertsen
- 11:55 - 12:05 P33.08 Landscape based urban drainage - adapting cities to heavier rain storms
Maria Bergen Jensen (Denmark), A Backhaus , M Bergman , H Birch , O Fryd , ST Ingvertsen , J Jeppesen
- 12:05 - 12:15 P33.09 Assessing climate change impacts, sea level rise and storm surge risk in port cities: a case study on Copenhagen
Stephane Hallegatte (France), N Patmore, O Mestre, P Dumas, J Corfee-Morlot, C Herweijer, R Muir-Wood
- 12:15 - 12:25 P33.10 Built-in resilience: learning from urban grassroots coping strategies to climate variability
Cassidy Johnson (UK), A Allen, H Jabeen
- 12:25 - 12:35 P33.11 Changing groundwater levels jeopardizing the supply, quality of groundwater and ground stability
Charlotte Sparrenbom (Sweden), M Gustafsson, K Hemström, T Rihm
- 12:35 - 12:45 P33.12 Challenges to adaptation for risk-prone marine-related livelihoods in Tumaco, Pacific Coast
Andrea Lampis (Colombia)
- 12:45 - 12:55 P33.13 Flood risk and land occupation in Dakar outskirts. Does climate variability reveal inconsistent urban management?
Cheikh Mbow (Senegal), A Diop, AT Diaw
- 12:55 - 13:05 P33.14 A strategic face to climate change in Varadero. Advising to decision makers and stakeholders
Barbaro Moya (Cuba), A Cabrera, L Castillo, J Rojo
- 13:05 - 13:15 P33.15 Strategies for sustainable rural-urban land use relationships under changing climate conditions
Kjell Nilsson (Denmark), S Pauleit, TS Nielsen
- 13:15 - 13:25 P33.16 Vulnerability of Maldives Islands to extreme weather events: a study of citizens perceptions and adaptations in regional urban centers
LAS Ranjith Perera (Thailand), M Mohamed
- 13:25 - 13:35 P33.17 Urban gradient development for evaluating impact gradients of ecosystem services in megacities: a case study of Karachi, Pakistan
Salman Qureshi (Austria)
- 13:35 - 13:45 P33.18 Vulnerability to sea level rise and riverine flooding: a case study of Verdal, Mid-Norway
Rita Rosvoldaune (Norway)

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Session 33 - Adapting Urban Areas to Climate Change (cont.)

- 13:45 - 13:55 P33.19 Effects of cities on the local climate and the relationship with climate change mitigation and adaptation
Matthias Roth (Singapore)
- 13:55 - 14:05 P33.20 Assessment of social and community impacts of climate adaptation for urban areas
Rauno Sairinen (Finland)
- 14:05 - 14:15 P33.21 Development of mitigation measures for the metropolitan region of Hamburg (Germany)
K Heinke Schlünzen (Germany), F Ament, B Bechtel, J Böhner, A Eschenbach, B Fock, P Hoffmann, P Kirschner, B Leidl, J Oßenbrügge, G Rosenhagen, M Schatzmann

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Session 34 - Adapting Human Land Use to Climate Change Part II

- 10:45 - 10:55 P34.15 Adapting pest control management to climate change
Riccarda Moser (Italy), I Pertot, R Raffaelli
- 10:55 - 11:05 P34.16 Linking climate change and urbanization in Kano metropolis and environs in the Sudano-Saharan Belt of Nigeria
Appollonia Okhimamhe (Nigeria), D Sanni
- 11:05 - 11:15 P34.17 Rural community engagement and climate change in Scotland; perceptions and potential responses
Guillaume Pajot (UK), B Slee, T Craig
- 11:15 - 11:25 P34.18 Climate change, land use and landscape dynamics. Assessing environmental trends in relation to climate change in the tropical Andes
Hildebrando Palacios (Norway)
- 11:25 - 11:35 P34.19 Global climate change and sustainable management of agriculture in highly developed mountain environment
Ilaria Pertot (Italy), Y Elad, C Gessler, R Raffaelli, C Furlanetto
- 11:35 - 11:45 P34.20 Carbon dynamics change with land-use/cover: an analysis from a watershed of the North-east India
Suresh Chand Rai (India), P Sharma
- 11:45 - 11:55 P34.21 Getting the climate impact right – the complex dynamics of the agricultural frontline in the Sahel
Anette Reenberg (Denmark)
- 11:55 - 12:05 P34.22 On the land - Greenland and Nunavut: a small footprint model
Wilfred Emery Richard (USA)
- 12:05 - 12:15 P34.23 Understanding vulnerability and building resilience to climate change in a high biodiversity mountain landscape in Chiapas, Mexico
Goetz Schroth (USA), J Haggard, R Hernandez, T Castillejos
- 12:15 - 12:25 P34.24 Effects of land use and precipitation changes on carbon stock in a basin of the Orinoco lowlands: 1938-1997
Dirk Thielen (Venezuela), J San José, R Montes
- 12:25 - 12:35 P34.25 Adaptation, landscape heterogeneity & climate variability
Saskia Werners (The Netherlands)
- 12:35 - 12:45 P34.26 Robustness trade-offs & diversification of land use to cope with climate related risks in the Hungarian Tisza River basin
Saskia Werners (The Netherlands), Z Flachner, E Balogh
- 12:45 - 12:55 P34.27 The land cover changes in Northeast China during the past 300 years
Yu Ye (PR China), X Fang, X Zhang
- 12:55 - 13:05 P34.28 Variations in vegetation net primary productivity along Northeast China Transect from 1982 to 1999
Feng Zhang (PR China), G Zhou

Session 35 - Adapting Coastal Zone and Marine Resources to Climate Change Part I

- 10:45 - 10:55 P35.01 Climate change risk-prone marine-related livelihoods in Tumaco, Pacific Coast (Colombia)
Lampis Andrea (Colombia)
- 10:55 - 11:05 P35.02 Dominant threats and collaborative solutions in the world's largest ocean: the Pacific
Margaret R Caldwell (USA), **SR Palumbi**, **T Hoffmann**, **J Teisch**, **O Hoegh-Guldberg**, **J Lubchenco**
- 11:05 - 11:15 P35.03 Adaptation of fishing communities in the Philippines to climate change
Maria Rebecca Campos (Philippines)
- 11:15 - 11:25 P35.04 Coastal resilience to climate change: developing a generalizable method for assessing vulnerability and adaptation of mangroves and assoc. ecosystems
Jeff Price (USA), **M Case**, **M Tchamba**, **M Fiu**, **J Rubens**
- 11:25 - 11:35 P35.05 Sea level rise vulnerability assessment in coastal areas in Rio de Janeiro state, Brazil
Carolina Carvalho (Brazil)
- 11:35 - 11:45 P35.06 Nigeria coastal cities already living with climate change
Adesina Fatai (Nigeria)
- 11:45 - 11:55 P35.07 Impacts of climate variability and change on marine plankton communities in tropical coastal ecosystems, South India
Nallamuthu Godhantaraman (India)
- 11:55 - 12:05 P35.08 Climate factors that lead to fish kills in Australian coastal acid sulfate soil catchments
Lance Heath (Australia)
- 12:05 - 12:15 P35.09 The role of coastal management in modifying coastal carbon and nitrogen cycles
Timothy Jickells (UK), **J Andrews**
- 12:15 - 12:25 P35.10 Vulnerability of coastal ecosystems in Northeast of Morocco to shoreline erosion and sea level rise
Abdellatif Khattabi (Morocco), **FM Bellaghmouch**
- 12:25 - 12:35 P35.11 The Global Biodiversity Information Facility (GBIF): infrastructure, standards, access to data and tools to forecast climate change impacts on marine resources
Andy Jarvis (Denmark), **N King**, **S Gaiji**
- 12:35 - 12:45 P35.12 Climate change impacts to the coastal zone and adaptation strategy in Korea
Suk Hui Lee (South Korea), **DK Kang**, **IK Bang**, **KI Choi**

Session 37 - Adapting Future Agricultural Production to Climate Change Part II

- 10:45 : 10:55 P37.21 Targets for improving crop tolerance under nutrient deficiency to future challenges
Christina Lunde (Denmark), **A Zygadlo**, **HT Simonsen**, **A Blennow**, **A Haldrup**
- 10:55 - 11:05 P37.22 Climate change effects on plant health
Michael F Lyngkjær (Denmark), **JD Jensen**, **G Frenck**, **RB Jørgensen**, **TN Mikkelsen**, **DB Collinge**, **HJL Jørgensen**
- 11:05 - 11:15 P37.23 Application of a framework for high resolution climate change impact assessment on grapevine (*Vitis vinifera* L.) at regional scale : phenology, yield and biotic stress responses
Marco Moriondo (Italy), **M Bindi**, **G Trombi**
- 11:15 - 11:25 P37.24 Benefits of organic agriculture as a climate change adaptation and mitigation strategy in developing countries
Adrian Muller (Switzerland)
- 11:25 - 11:35 P37.25 Increasing biodiversity in agroecosystems decreases climate change problems
Helton Nonato de Souza (Brazil), **EMG Duarte**, **MI Aguiar**, **RBA Fernandes**, **E de Sá Mendonça**, **IM Cardoso**
- 11:35 - 11:45 P37.26 Climate change and perspectives for Indian agriculture
Kankanalli Gouda Parameshwarappa (India), **UK Shanwad**, **UV Mummigatti**, **PM Salimath**
- 11:45 - 11:55 P37.27 Adapting microbial biocontrol of plant disease for a changing climate: effect of increased temperature
Ilaria Pertot (Italy), **D Angeli**, **E Mamoci**, **V Simeone**, **Y Elad**

Session 37 - Adapting Future Agricultural Production to Climate Change Part II (cont.)

- 11:55 - 12:05 P37.28 Soil carbon monitoring in forestry and arboriculture ecosystems of north-western Italy, according to a new orientation of agro-forestry production
Fabio Petrella (Italy), *M Piazzi*
- 12:05 - 12:15 P37.29 A simulation approach to investigate options for mitigation and crop adaption to climate change in Mediterranean area
Michele Rinaldi (Italy), *S Ruggieri, D Ventrella, M Bindi*
- 12:15 - 12:25 P37.30 The need for better science-stakeholder relations in policy and practice: agro-meteorological metrics as tools for communication and strategic planning
Mike Rivington (UK), *K Matthews, K Buchan, D Miller*
- 12:25 - 12:35 P37.31 A modeling framework for assessing adaptation options of Finnish agriculture to climate variability and change
Reimund Rötter (Finland), *HM Kahiluoto, H Lehtonen, J Aakkula, TR Carter*
- 12:35 - 12:45 P37.32 Biocontrol bacteria isolated from potato fields in Greenland
Peter Stougaard (Denmark), *C Jensen, L Munk, E de Neergaard, K Høegh*
- 12:45 - 12:55 P37.33 Impacts of climate change and climate variability on agriculture in the Midwest US
Eugene Takle (USA)
- 12:55 - 13:05 P37.34 Surface ozone impact on global food supply: Potential damage and adaptation for soybean crops
Edmar Teixeira (Austria), *G Fischer, H van Velthuisen, F Ewert, R van Dingenen, F Dentener, G Mills*
- 13:05 - 13:15 P37.35 Impact of climate change on rice production in Southeast Asia: towards better farmer production functions
Robert Townsend (USA), *J Felkner, K Tazhibayeva*
- 13:15 - 13:25 P37.36 Potential impacts of climate change on soybean yields in the Argentinean pampas and adaptation measures for future sustainable production
María Isabel Travasso (Argentina), *GO Magrin, GR Rodríguez, GM López*
- 13:25 - 13:35 P37.37 Current perceptions on climate change impacts and adaptation for arable crops in Europe
Miroslav Trnka (Czech Republic), *J Olesen, C Kersebaum, A Skejvåg, B Seguin, P Peltonen-Sainio, F Rossi, J Kozyra, M Dubrovsky, P Hlavinka*
- 13:35 - 13:45 P37.38 Looking at potential agricultural adaptation: uncertainty in climate change projections
Miroslav Trnka (Czech Republic), *M Svoboda, M Hayes, P Hlavinka, M Dubrovsky, J Eitzinger, D Semerádova, J Balek, E Hunt, Z Zalud*
- 13:45 - 13:55 P37.39 Vulnerability and adaptation to climate change of Sorghum cultivation in Southern Italy
Domenico Ventrella (Italy), *L Giglio, M Moriondo, M Bindi*
- 13:55 - 14:05 P37.40 Climate change impact in agriculture sector in Tanzania and its mitigation measure
Pamela William Levira (Tanzania)
- 14:05 - 14:25 P37.41 Implications of multiple high-temperature and drought events for yield and quality in wheat
Bernd Wollenweber (Denmark), *D Jiang, S Jakobsen, I Søndergaard, J Porter*

Session 38 - Adapting Forests to Climate Change

- 10:45 : 10:55 P38.01 Sustainable wood use, decarbonisation of energetic metabolism and forest development
Rolf Czeskleba-Dupont (Denmark)
- 10:55 - 11:05 P38.02 Climate change impacts on mountain forests – interactions with small-scale disturbance from ungulate browsing
Markus Didion (Switzerland), *AD Kupferschmid, H Bugmann*
- 11:05 - 11:15 P38.03 Climate driven shifts in mountain forest heterogeneity: the impact of large scale shifts on smaller scale forest structure.
Che Elkin (Switzerland), *B Reineking, H Bugmann*
- 11:15 - 11:25 P38.04 MOTIVE - models for adaptive forest management
Marc Hanewinkel (Germany), *K von Teuffel*

Session 38 - Adapting Forests to Climate Change (cont.)

- 11:35 - 11:45 P38.05 Protecting the protectors: lessons for adaptation strategies of mangrove forests from Bangladesh
Saiful Islam Khan (UK)
- 11:45 - 11:55 P38.06 From carbon sinks to carbon sources - a concept for studying climate change-induced insect outbreaks and forest ecosystem feedbacks
Anne le Mellec (Germany), **K Möller**, **M Habermann**, **T Krummel**, **H Vogt- Altena**, **A Reinhardt**, **S Erasmi**, **I Korczynski**, **J Karg**, **J Slowik**, **G Gerold**, **C Thies**
- 11:55 - 12:05 P38.07 Optimal management of forests taking into account the climate change
Ruben Mur (Spain), **F Cordoba**, **R Goetz**, **C Gracia**, **A Xabadia**
- 12:05 - 12:15 P38.08 Climate change – improved conditions for native and introduced insect pests on trees
Hans Peter Ravn (Denmark)
- 12:15 - 12:25 P38.09 Forest management for increased carbon storage
Jens Peter Skovsgaard (Denmark), **L Vesterdal**
- 12:25 - 12:35 P38.10 Future climate adapted forest tree species in hills of Bangladesh
M Al-Amin (Bangladesh)
- 12:35 - 12:45 P38.11 Climate change and leaf phenology: a long-term study in West Virginia
Rico Gazal (USA), **T Ensign**, **TJ Cartwright**, **G Bardwell**
- 12:45 - 12:55 P38.12 Modeling interannual variability of surface energy and CO₂ exchanges with stand development of a sub-boreal deciduous forest
Motomu Toda (Japan), **M Yamada**, **T Nakai**, **Y Kodama**, **A Sumida**, **T Hara**
- 12:55 - 13:05 P38.13 Opportunities and constraints for action of climate change adaptation in Africa: experiences from Uganda
Emmanuel Kasimbazi (Uganda)

Session 41 - Adaptation to Climate Change in Least Developed Countries - Challenges, Experiences and Ways Forward Part II

- 10:45 - 10:55 P41.15 Will the native fruit tree *Parkia biglobosa* remain adapted in the West African parklands? - Preparing for the future climate
Erik Dahl Kjær (Denmark), **M Ouadraogo**, **A Ræbild**
- 10:55 - 11:05 P41.16 A case study of global warming in Penang Island, Malaysia
Jasim Mohammed Rajab Hussain (Malaysia), **H-S Lim**, **MZ Mat Jafri**, **K Abdullah**
- 11:05 - 11:15 P41.17 Atmospheric Infrared Sounder (AIRS) observation of the carbon monoxide distribution over Malaysia
Jasim Mohammed Rajab Hussain (Malaysia), **H-S Lim**, **MZ Mat Jafri**, **K Abdullah**
- 11:15 - 11:25 P41.18 Improved, low-input establishment and management of contour-hedges for unpredictable, hot climates
Torsten Mandal (Denmark)
- 11:25 - 11:35 P41.19 Status of practice of climate change mitigation and adaptation strategies among intensive dairy systems in Uganda
Sarah Mubiru (Uganda), **W Nanyeenya**, **J Tenywa**, **D Romney**, **N Halberg**
- 11:35 - 11:45 P41.20 Culture and climate change nexus: the case of Ghana
Michael Kofi Nsiah (Ghana)
- 11:45 - 11:55 P41.21 Climate vulnerability in Mozambique: current state and outlook into the future
Patrick Nussbaumer (Spain), **A Patt**
- 11:55 - 12:05 P41.22 Risk communication in climate change and adaptation: policy issues and challenges for Nigeria
Felix Olorunfemi (Nigeria)
- 12:05 - 12:15 P41.23 Effects of climate change in Nepal: time for policy to action
Meen Poudyal Chhetri (Nepal), **R Pandey**
- 12:15 - 12:25 P41.24 Adaptation to climate change on three small Polynesian outliers in the Solomon Islands
Kjeld Rasmussen (Denmark), **T Birk**, **W May**, **Ole Mertz**, **TB Bruun**, **J Agergaard**, **D Yee**, **M Mataka**
- 12:25 - 12:35 P41.25 access2innovation - a strategy to fight climate change?
Jacob Ravn (Denmark), **A Remmen**

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10:45 - 13:45 P41

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Session 41 - Adaptation to Climate Change in Least Developed Countries - Challenges, Experiences and Ways Forward Part II (cont.)

- 12:35 - 12:45 P41.26 Climate change of Nepal: challenges and perspectives for future generations
Megha Raj Regmi (Nepal)
- 12:45 - 12:55 P41.27 Encouraging participatory forest management by policy improvement to address climate change issues
Arun Rijal (Nepal)
- 12:55 - 13:05 P41.28 Community-based adaptation to climate change: the case of Thailand
Jayant Kumar Routray (Thailand), *W Permpibul*
- 13:05 - 13:15 P41.29 Capacity building of operational oceanography: a step towards adaptation to climate change for developing countries
Jun She (Denmark)
- 13:15 - 13:25 P41.30 Perceptions of environmental stress by rural communities in the Sudan-Sahel zone of West Africa
Ole Mertz (Denmark), *I Bouzou, A Diouf, D Dabi, JØ Nielsen, D Diallo, C Mbow, A Ka, A Maiga*

10:45 - 13:45 P54

Hall C

Session 54 - The Role of non Nation State Actors (Cities, NGOs, Business) in Combating Climate Change

- 10:45 - 10:55 P54.01 Energy policy developments for Australian small and medium-sized enterprise: initial survey findings from Greater Perth and Melbourne regions
Aharon Factor (Australia)
- 10:55 - 11:05 P54.02 Enhancing local government climate change adaptation decision-making: development an understanding of the economic costs and benefits of adaptation for Ku-ring-gai Council, Sydney Australia
Ann Henderson-Sellers (Australia), *R Taplin, S Mathew, S Truek, J Scott, L Hayward*
- 11:05 - 11:15 P54.03 Project Rain Gauge: a partnership to adapt to climate change
Marina Mallare (Philippines), *S Recabar*
- 11:15 - 11:25 P54.04 Open assessment on impacts of emission trade on city-level
Mikko Pohjola (Finland), *V Kollanus, P Ahtoniemi, M Jantunen, J Tuomisto*

10:45 - 16:15 P57

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Session 57 - Cultures, Values & World Perspectives as Factors in Responding to Climate Change

- 10:45 - 10:55 P57.01 Prolegemena to the development of cultural concepts for climate change mitigation and adaptation: Cross cultural and diachronic perspectives
David Benjamin (Norway), *G Albrecht*
- 10:55 - 11:05 P57.02 Religion in dangerous environmental change
Sigurd Bergmann (Norway)
- 11:05 - 11:15 P57.03 The noosphere in earth system analysis
Dieter Gerten (Germany)
- 11:15 - 11:25 P57.04 Counting confusing climate change communication
Ann Henderson-Sellers (Australia)
- 11:25 - 11:35 P57.05 Justice as global ethical framework - basis for an integrated strategy of climate protection and poverty reduction
Michael Reder (Germany)
- 11:35 - 11:45 P57.06 Socio-cultural reflections on comfort and heat in Australia with implications for climate change adaption
Cathy Banwell (Australia), *J Dixon, H Bambrick, S Hinde, T Kjellstrom, R Lucas, I Hannigan*
- 11:35 - 11:45 P57.07 Socio-cultural reflections on comfort and heat in Australia with implications for climate change adaption
Cathy Banwell (Australia), *J Dixon, H Bambrick, S Hinde, T Kjellstrom, R Lucas, I Hannigan*

Session 57 - Cultures, Values & World Perspectives as Factors in Responding to Climate Change (cont.)

- 11:45 - 11:55 P57.08 Motivation to adapt to climate change
Kristina Blennow (Sweden)
- 11:55 - 12:05 P57.09 Climate change with Chinese characteristics: a study of discourse
Christian Ellermann, M Mayer (Germany)
- 12:05 - 12:15 P57.10 Managing our changing world heritage: convergence in The Philippine rice terraces
Rachel Guimbatan (Philippines)
- 12:15 - 12:25 P57.11 Topographical mementos: social responses to a changing climate in the Arctic
Kirsten Hastrup (Denmark)
- 12:25 - 12:35 P57.12 A social vulnerability index for Norway: a viable approach in analyses of social consequences of climate change?
Ivar Svare Holand (Norway), **JK Rød, P Lujala**
- 12:35 - 12:45 P57.13 Angry spirits of the land: cultural and ethical elements of climate change adaptation among Mongolian pastoralist nomads
Andrei Marin (Norway)
- 12:45 - 12:55 P57.14 Adaptation of coastal communities in the cross-pressure of tourism and environmental change in Zanzibar, Tanzania
Johanna Mustelin (Finland)
- 12:55 - 13:05 P57.15 Inter-ethnic relations and adaptation to climate change in a small West African village
Jonas Østergaard Nielsen (Denmark)
- 13:05 - 13:15 P57.16 Scenario planning as a tool to explore climate change adaptation for remote indigenous communities
Javier Puig (Australia), **C Huchery, N Collier, S Garnett, N Concu**
- 13:15 - 13:25 P57.17 Attitudes and perceptions underpinning inaction and non-preparedness in a hurricane zone
Emma Tompkins (UK), **L-A Hurlston, W Poortinga**
- 13:25 - 13:35 P57.18 Explaining public perception of climate change and mitigation behaviour in Switzerland within a structural equation modelling approach
Aysel Tutkun (Switzerland)
- 13:35 - 13:45 P57.19 The nature view held by environmentalists. Attitudes in the Norwegian environmental establishment
Morten Tønnessen (Estonia)
- 13:45 - 13:55 P57.20 Auroville: the city the earth needs - 'a successful case of changing the climate for holistic sustainable development'
Lalit Bhati (India)
- 13:55 - 14:05 P57.21 The response to climate change from the Baha'i community
Arthur Lyon Dahl (Switzerland)
- 14:05 - 14:15 P57.22 Climate change beyond diplomacy: thinking outside the box response of the world faith community
Rabbi Warren Stone (USA)
- 14:15 - 14:25 P57.23 What type of values does an adequate climate change policy require?
Marius Christen (Switzerland)
- 14:25 - 14:35 P57.24 The cultural imagination of climate change: disaster images of the human
Isak Winkel Holm (Denmark)
- 14:35 - 14:45 P57.25 POPs in human plasma of residents from traditional Arctic societies – impacts of oil and gas activity from a human-based security perspective
Gunhild Hoogensen (Norway), **G Gabrielsen, B Dale**
- 14:45 - 14:55 P57.26 Making sense of future climate: bridging the gap between climate science and local perceptions of change
Grete Kaare Hovelsrud (Norway), **H Amundsen, H Dannevig, S Rybråten, J West**
- 14:55 - 15:05 P57.27 Institutional adaptation to climate change in Chile and Canada session 57 cultures, values and world perspectives as factors in responding to climate change
Harry Diaz (Canada), **M Hurlbert**
- 15:05 - 15:15 P57.28 Heidegger, technology, and climate change
Ruth Irwin (New Zealand)

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10:45 - 16:15 P57

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Session 57 - Cultures, Values & World Perspectives as Factors in Responding to Climate Change (cont.)

- 15:25 - 15:35 P57.29 The making of sustainable cultures - cultural chronotopes and creatives at work in relation to climate change and sustainability
Oleg Koefoed (Denmark)
- 15:35 - 15:45 P57.30 'World Views' on impacts and responses to climate change: an actor networktheory perspective
Anthony J Masys (Canada)
- 15:45 - 15:55 P57.31 Moving to a new climate of opinion
James Moir (UK)
- 15:55 - 16:05 P57.32 Risk perceptions and lifestyle changes in relation to climate change adaptation in Denmark
Lars Kjerulf Petersen (Denmark), A Jensen, SS Nielsen
- 16:05 - 16:15 P57.33 A neo-Epicurean approach to a sustainable good life in a world of climate change
Edward Howlett Spence (The Netherlands)

10:45 - 14:30 P58

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Session 58-National and Regional Development of Mitigation Policies

- 10:45 - 10:55 P58.01 A management system framework for city benchmarking and continuous improvement
Anne Arquit Niederberger (USA)
- 10:55 - 11:05 P58.02 Climate change mitigation in dryland rural communities in Nigeria, old problem: new challenges and new opportunities
Andrew I Ayeni (Nigeria)
- 11:05 - 11:15 P58.03 Ethical obligations of national, regional, and local governments to reduce the threat of climate change
Donald Brown (USA)
- 11:15 - 11:25 P58.04 Integrating sustainable consumption in Asian climate change policies
Uchita de Zoysa (Sri Lanka)
- 11:25 - 11:35 P58.05 Best practises for the development of a suitable climate change mitigation policies in the Congo Basin
Laurence Jumbo Ekale (Cameroon)
- 11:35 - 11:45 P58.06 Mitigation of climate change and the potential reduction in global health impact of particulate air pollution from coal fired power station
Simon Hales (Switzerland), J Gohlke, A Pruess-Ustun, D Campbell-Lendrum, A Woodward
- 11:45 - 11:55 P58.07 Climate change adaptation at the urban local government level: the case of Pakistan
Muhammad Saleem Janjua (Australia)
- 11:55 - 12:05 P58.08 An investigation of the forest stand changes in lowland region of Guilan province using remote sensing data of the poor(P5)
Ali Meraji (Iran), M Haghyghy Khomami, H-R Maskani Jifroudi
- 12:05 - 12:15 P58.09 Climate policy integration as a necessity for an efficient climate policy
Anders Branth Pedersen (Denmark), P Mickwitz, S Beck, A Jensen, C Görg, M Melanen, N Ferrand, C Kuhlicke, W Kuindersma, M Máñez, H Reinert, S van Bommel
- 12:15 - 12:25 P58.10 Carbon dioxide abatement potential from electricity use in Hungarian tertiary buildings
Diana Ürge-Vorsatz (Hungary), V Novikova
- 12:25 - 12:35 P58.11 Institutional change and climate policy in Ecuador
Daniel Ortega-Pacheco (USA), I Manzano-Torres
- 12:35 - 12:45 P58.12 How to achieve global scale climate change mitigation? An integrative global policy framework beyond Kyoto
Vicente Rappaccioli-Navas (Costa Rica)
- 12:45 - 12:55 P58.13 Towards sustainable development in Africa: challenges, opportunities and policy implications
Marie Rarieya (Japan)
- 12:55 - 13:05 P58.14 Global gardening with a leaky bucket: addressing climatic catastrophe through Article 3.3 of the UNFCCC
Peter Read (New Zealand)

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10:45 - 14:30 P58

Hall C

Session 58-National and Regional Development of Mitigation Policies (cont.)

- 13:05 - 13:15 P58.15 Towards a comprehensive climate change agreement in Copenhagen
Bert Saveyn (Spain), *P Russ, J-C Ciscar, A Soria, L Szabo, T Van Ierland, G Klaassen, R Viridis*
- 13:15 - 13:25 P58.16 Climate change mitigation and adaptation efforts in Myanmar by non-governmental organizations and the private sector: public private partnership for poorest of the poor(P5)
Khin-Ni-Ni Thein (Thailand), *K-T Htwe, T San*
- 13:35 - 13:45 P58.17 Developing country proposals for a global climate deal – ‘enhanced actions’ in the case of China
Christian Ellermann (Germany), *M Vieweg*
- 13:45 - 13:55 P58.18 Docking into a global carbon market: Clean Investment Budgets to encourage emerging economy participation
Gernot Wagner (USA), *NO Keohane, A Petsonk, J Wang*
- 13:55 - 14:05 P58.19 Mentoring buildings: local links to global sustainability
Ted Wilson (Canada)
- 14:05 - 14:15 P58.20 Integrated strategies to minimize the socio-economic impacts on climate change refugees in Bangladesh
Rizwana Yusuf (Bangladesh)
- 14:15 - 14:25 P58.21 Nigeria’s response to climate change and regional leadership in climate change mitigation and adaptation in West Africa and Africa
Richard UU Ingwe (Nigeria)

Session 01 - Cryosphere, Instabilities, Sea Level Rise

- 11:00 - 11:10 P01.01 Impact of present warming on Greenland Ice Sheet model
Gudfinna Adalgeirsdottir (Denmark), *M Stendel, JH Christensen, E Bueler, M Drews*
- 11:10 - 11:20 P01.02 Supraglacial lake volumes on the Jakobshavn isbrae
John Adler (USA), *K Steffen*
- 11:20 - 11:30 P01.03 The Moulin explorer: a novel instrument to study Greenland ice sheet melt-water flow
Alberto Behar (USA), *H Wang, A Elliot, S O'Hern, C Lutz, S Martin, K Steffen, D McGrath, T Phillips*
- 11:30 - 11:40 P01.04 Nonstationarity in cryosphere-atmosphere coupling and its relationship to variability and change of North Atlantic Oscillation
Roxana Bojariu (Romania), *R Garcia Herrera, M Caian, T Zhang, O Frauenfeld*
- 11:40 - 11:50 P01.05 Modelling the spatial distribution of moulins near Jakobshavn, Greenland
William Colgan (USA), *K Steffen*
- 11:50 - 12:00 P01.06 Significant Holocene thinning of the Greenland ice sheet
Bo Vinther (Denmark), *SL Buchardt, HB Clausen, D Dahl-Jensen, SJ Johnsen, DA Fischer, RM Koerner, D Raynaud, V Lipenkov, KK Andersen, T Blunier, SO Rasmussen*
- 12:00 - 12:10 P01.07 Climatic control on glacier mass balance and runoff, Mittivakkat Glacier catchment, Ammassalik Island, SE Greenland
Bent Hashol (Denmark), *t, SH Mernild, NT Knudsen*
- 12:10 - 12:20 P01.08 Analysis delta-13C in CO₂ at Copenhagen University: results towards a first CO₂ record from Greenland
Theo Manuel Jenk (Denmark), *T Blunier, D Dahl-Jensen*
- 12:20 - 12:30 P01.09 Recent global sea level acceleration started over 200 years ago?
Svetlana Jevrejeva (UK), *J Moore, A Grinsted, P Woodworth*
- 12:30 - 12:40 P01.10 Constraining the southern Greenland ice sheet since the last glacial maximum until the present from sea-level observations and glacial-isostatic adjustment models
Charlotte Jönsson Sparrenbom (Sweden), *K Lambeck, D Fabel, K Fleming, A Purcell*
- 12:40 - 12:50 P01.11 Constraining future climate change using ice core data
Jean Jouzel (France), *V Masson-Delmotte, D Raynaud*
- 12:50 - 13:00 P01.12 Western-Siberian peatlands as indicator and regulator of climatic changes
Sergey Kirpotin (Russian Federation), *B Dupre, O Pokrovsky, A Kouraev, A Beresin, V Bazanov, Y Polishchuk, I Volkova, N Mironycheva-Tokoreva, J Viers, M Kolmakova*
- 13:00 - 13:10 P01.13 Ice flow and mass balance along the ridge of the Greenland ice sheet between NGRIP and NEEM
Lars Berg Larsen (Denmark), *CS Hvidberg*
- 13:10 - 13:20 P01.14 Analysis of long-term hydro-meteorological data of Baker River Basin and the mass balance of NEF glacier, Patagonia
Paulina Lopez (Chile), *G Casassa*
- 13:20 - 13:30 P01.15 Impact of warm events during cold seasons on the hydrological response of a polar glacier system
Christelle Marlin (France), *M Griselin, E Bernard, E Delangle, D Laffly, J-M Friedt*
- 13:30 - 13:40 P01.16 Sediment plumes in Sondre Stromfjord, Greenland as a proxy for run-off from the Greenland ice sheet
Daniel McGrath (USA), *K Steffen, I Overeem*
- 13:40 - 13:50 P01.17 Greenland Ice Sheet melt extent and surface mass-balance modeling, 1950–2080
Sebastian H Mernild (USA)
- 13:50 - 14:00 P01.18 Increased Greenland melt extent 1995–2007
Sebastian H Mernild (USA)
- 14:00 - 14:10 P01.19 Melt water influence on englacial temperature distribution
Thomas Phillips (USA), *H Rajaram, K Steffen*
- 14:10 - 14:20 P01.20 Statistical analysis of global sea level using nonstationary methods: New prospects for projection?
Torben Schmith (Denmark), *S Johansen, P Thejll*
- 14:20 - 14:30 P01.21 Nature and history of the cenozoic polar ice covers
Jørn Thiede (Denmark)

Session 02 - Global/Regional Climate State in 2030

- 11:00 - 11:10 P02.01 European temperature variability and heatwaves in a changing climate: where do we stand?
Christoph Schar (Switzerland), *E Fischer*
- 11:10 - 11:20 P02.02 Yield modelling of Mediterranean crops: a probabilistic approach
Roberto Ferrise (Italy), *M Moriondo, M Bindi*
- 11:20 - 11:30 P02.03 Assessment of statistical downscaling methods - application and comparison of two statistical methods to a single site in Lisbon
Pedro Lopes (Portugal)
- 11:30 - 11:40 P02.04 India and climate change in the post KYOTO regime
Vikrant Pachnanda (India), *U Kacker*
- 11:40 - 11:50 P02.05 Meeting the needs for climate observations: the role of the Global Climate Observing System (GCOS)
John Zillman (Australia)
- 11:50 - 12:00 P02.06 Nanosensor technology for following phosphate partitioning in plants
Helle Juel Martens (Denmark), *S Gjetting, AT Fuglsang, A Schulz*
- 12:00 - 12:10 P02.07 Which is a better paradigm: northern annular mode, North Atlantic oscillation or centers of action?
Muhammad Jawed Iqbal (Pakistan), *S Hameed*

Session 03 - Changes in Ocean Circulation Related to Regional Climate

- 11:00 - 11:10 P03.01 Modelling recent changes in carbon uptake in the North Atlantic
Karen M Assmann (Norway), *C Heinze, M Bentsen, A Olsen*
- 11:10 - 11:20 P03.02 A cold 'Medieval Warm Period' and a warm 'Little Ice Age' and other climate stories from Atlantic Ocean sedimentary records of the past 500.000 years
Antoon Kuijpers (Denmark), *MS Seidenkrantz, BA Malmgren, SR Troelstra*
- 11:30 - 11:40 P03.03 Greenland climate changes related to the strength of the Atlantic meridional overturning circulation
Peter L Langen (Denmark)
- 11:40 - 11:50 P03.04 Multi decadal variability of the North Atlantic and Mediterranean SST
Salvatore Marullo (Italy), *V Artale, R Santoleri*
- 11:50 - 12:00 P03.05 Coastal geomorphologic study with multi-temporal satellite data in around Konkan coast, Maharashtra, India
Deepmala Nilamwar (India)
- 12:00 - 12:10 P03.06 Stability of the overflow across the Greenland-Scotland Ridge since 1948
Steffen Malskær Olsen (Denmark), *B Hansen, D Quadfasel, S Østerhus*
- 12:10 - 12:20 P03.07 North Atlantic deep water collapse triggered by a Southern Ocean meltwater pulse in a glacial climate state
Jessica Trevena (Australia), *WP Sijp, M England*
- 12:20 - 12:30 P03.08 Conclusions following the international symposium 'Effects of Climate Change on the World's Oceans'
Luis Valdés (Spain)
- 12:30 - 12:40 P03.09 The rapid climate change programme (RAPID)
Craig Wallace, *S Cunningham, M Srokosz (UK)*
- 12:40 - 12:50 P03.10 The Norwegian Sea one hundred year after
Svein Østerhus (Norway)
- 12:50 - 13:00 P03.11 Weather ship station M in the Norwegian Sea "Polarfront": the flagship of climate research
Svein Østerhus (Norway), *I Skjelvan, T Gammelsrød*
- 13:00 - 13:10 P03.12 Bipolar Atlantic thermohaline circulation – BIAC IPY cluster # 23
Svein Østerhus (Norway), *T Gammelsrød*

Session 04 - Vulnerability in Carbon Sinks

- 11:00 - 11:10 P04.01 Carbon dioxide and methane fluxes linked to oxygen availability in a temperate northern peatland
Louise Askær (Denmark), B Elberling
- 11:10 - 11:20 P04.02 Reduced CO₂ uptake in a warmer ocean due to increased remineralisation rates of organic matter in the twilight zone
Jørgen Bendtsen (Denmark), KM Hilligsøe, JLS Hansen, K Richardson, J Segschneider
- 11:20 - 11:30 P04.03 The newly discovered aerobic methane release from terrestrial vegetation: causes and consequences
Dan Bruhn (Denmark), TN Mikkelsen, J Øbro, WGT Williams, P Ambus
- 11:30 - 11:40 P04.04 Climate change strongly affects interaction between herbivorous insects, plants, and rhizosphere biota
Søren Christensen (Denmark), K Stevnbak, C Scherber, D Gladbach
- 11:40 - 11:50 P04.05 Lifetime of anthropogenic climate change: time-scales of CO₂ and temperature perturbations
Michael Eby (Canada), K Zickfeld, A Montenegro, D Archer, K Meissner, A Weaver
- 11:50 - 12:00 P04.06 Regional CO₂ fluxes estimated over North America for 2004 using a geostatistical inverse model
Sharon Gourdj (USA), K Mueller, D Huntzinger, V Yadav, A Hirsch, A Andrews, A Michalak
- 12:00 - 12:10 P04.07 The changing carbon cycle
Nicolas Gruber (Switzerland), M JL Sarmiento, Gloor, AR Jacobson, S Mikaloff Fletcher, S Pacala, K Rodgers
- 12:10 - 12:20 P04.08 The Biological Pump: How large and how vulnerable a component of the ocean's carbon uptake?
Karen Marie Hilligsøe (Denmark), K Richardson, J Bendtsen, M Moltke Lyngsgaard, LL Sørensen
- 12:20 - 12:30 P04.09 Mountain forest soils in the Alps release greenhouse gases
Robert Jandl (Austria), A Schindlbacher, B Kitzler, S Zechmeister-Boltenstern, H Van Mieghroet
- 12:30 - 12:40 P04.10 Constrain the uncertainty of terrestrial ecosystem dynamics in North America with Eddy Flux measurements
Qianlai Zhuang (USA), J Tang, M Chen, Y Jiang
- 12:40 - 12:50 P04.11 Modelling of climate and disturbance effects on forest above ground biomass and net biome productivity in Oyster River and Chibougamau sites
Ziyu Wang (Canada), R Grant, A Arain, P Bernier, J Chen, A Govind, L Guindon, R Hember, W Kurz, D Price, G Stinson, T Trofymow
- 12:50 - 13:00 P04.12 Terrestrial carbon-cycle feedback to climate warming: experimental evidence
Yiqi Luo (USA)
- 13:00 - 13:10 P04.13 Global warming and carbon balance
Ahmet Ruhi Mermut (Canada)
- 13:10 - 13:20 P04.14 The symbiosis between mycorrhizal fungi and plant roots - effects on forest soil C sequestration
Lars Ola Nilsson (Denmark), P Gundersen, L Vesterdal, H Wallander
- 13:20 - 13:30 P04.15 Reconciling anthropogenic CO₂ estimates in the Nordic Seas
Are Olsen (Norway), E Jeansson, T Johannessen, A Omar
- 13:30 - 13:40 P04.16 Climate effects on atmospheric carbon dioxide over the last century
Lauren E Rafelski (USA), SC Piper, RF Keeling
- 13:40 - 13:50 P04.17 The CO₂ airborne fraction is increasing – why so slowly? Implications for vulnerability in the carbon-climate-human system
Michael Raupach (Australia)
- 13:50 - 14:00 P04.18 Prognosing terrestrial carbon cycling with uncertainties: results from a Carbon Cycle Data Assimilation System (CCDAS)
Marko Scholze (UK), P Rayner, W Knorr, T Kaminski, R Giering
- 14:00 - 14:10 P04.19 Ecosystem recovery after drought events in our future climate
Merete Bang Selsted (Denmark), K Albert, P Ambus, A Michelsen, H Ro-Poulsen, T Mikkelsen, A Ibrom

Session 04 - Vulnerability in Carbon Sinks (cont.)

- 14:10 - 14:20 P04.20 Carbon dioxide exchanges between the land surface and the atmosphere for natural and managed ecosystems in Denmark
Henrik Søgaard (Denmark), K Pilegaard, E Dellwik, M Herbst, T Friborg
- 14:20 - 14:30 P04.21 Atmospheric CO₂ study over India: modeling and observations perspective
Yogesh Tiwari (India), R Langenfelds, R Reddy, P Steele, R Francey
- 14:30 - 14:40 P04.22 Regional variability of anthropogenic carbon transport in the ocean - views from the surface and the deep
Jerry Tjiputra (Norway), C Heinze, K Assmann, M Bentsen, I Bethke, C Sturm
- 14:40 - 14:50 P04.23 Towards understanding of carbon stabilisation mechanisms in volcanic ash soils in Andean ecosystems
Femke Tonneijck (The Netherlands), B Jansen, L Nierop, K Verstraten, J Sevink
- 14:50 - 15:00 P04.24 CARBOOCEAN – marine carbon sources and sinks assessment
Andrea Volbers (Norway), C Heinze, CARBOOCEAN Consortium
- 15:00 - 15:10 P04.25 Ecosystem carbon balance under future climate conditions; the CLIMAITE project carbon synthesis
Mette Sustmann Carter (Denmark), LG Linden, C Beier, TN Mikkelsen, M Holmstrup, IK Schmidt, P Ambus, K Pilegaard, KR Albert, LC Andresen, MB Selsted, KS Larsen, A Ibrom

Session 05 - Developing a Spectrum of Models to Describe the Earth System

- 11:00 - 11:10 P05.01 How big is leakage from forestry carbon credits? Estimates from a global model.
Montserrat Acosta (USA), B Sohngen
- 11:10 - 11:20 P05.02 Novel natural and anthropogenic physical mechanisms of weather and climate changes
Sergei Avakyan (Russian Federation), N Voronin
- 11:20 - 11:30 P05.03 Impact of soil freezing and thawing dynamics on soil organic carbon stocks in permafrost regions
Christian Beer (Germany)
- 11:30 - 11:40 P05.04 An earth system model of intermediate complexity for studies of Quaternary climate variability
Andrey Ganopolski (Germany), R Calov, E Bauer, V Brovkin
- 11:40 - 11:50 P05.05 Climate response to carbon emissions
Damon Matthews (Canada)
- 11:50 - 12:00 P05.06 Regional climate changes associated with a global “2 °C-stabilization” scenario
Wilhelm May (Denmark)
- 12:00 - 12:10 P05.07 Aspects of radiative efficiency of geoengineering based on climate models of different complexity
Igor I Mokho (Russian Federation), AV Chernokulsky, AV Eliseev, AA Karpenko
- 12:10 - 12:20 P05.08 Climate changes in the northern Eurasia simulated by two models of different complexity
Igor I Mokhov (Russian Federation), AV Eliseev, MM Arzhanov, PF Demchenko, SN Denisov
- 12:20 - 12:30 P05.09 Self-organization experimentally modeled by chemometrics and data-inspection emphasizes the strength of an exploratory pattern recognition approach in climate evaluation
Lars Munck (Denmark), B Møller Jespersen, L Nørgaard, S Balling Engelsen, R Bro
- 12:30 - 12:40 P05.10 Towards climate simulations at cloud-resolving scales
Christoph Schar (Switzerland), C Hohenegger, P Brockhaus, C Bretherton
- 12:40 - 12:50 P05.11 Evaluation of the atmosphere-ocean performance of EC-Earth
Shuting Yang (Denmark), R Bintanja, F Selten, T Semmler, X Wang, K Wyser

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11:00 - 12:00 P06

Hall C

Session 06 - Tipping Elements in the Earth System

- 11:00 - 11:10 P06.01 The Gibraltar Strait: a Tipping element of the Mediterranean Ocean Circulation
Vincenzo Artale (Italy), **A Carillo**, **G Sannino**
- 11:10 - 11:20 P06.02 The impact of anthropogenic aerosols on the Southern Hemisphere ocean-atmosphere circulation
Timothy Cowan (Australia), **W Cai**
- 11:20 - 11:30 P06.03 The potential role of atmospheric nutrient supply in altering ocean productivity.
Timothy Jickells (UK), **Al Baker**
- 11:30 - 11:40 P06.04 Bifurcation analysis of geophysical time series
Valerie Livina (UK), **F Kwasniok**, **Y Sapronov**, **T Lenton**
- 11:40 - 11:50 P06.05 A conceptual model of D-O events
Kerim H Nisancioglu (Norway), **TM Dokken**, **C Li**, **D Battisti**
- 11:50 - 12:00 P06.06 Did the West-Spitsbergen-Current entailed the two decades long Arctic Warming 90 years ago?
Arnd Bernaerts (Germany)

11:00 - 15:30 P07

Hall C

Session 07 - Informing the Future by Understanding the Past Part II

- 11:00 - 11:10 P07.25 Sea level and CO2. Lessons from the past
Øyvind Lidegaard (Denmark)
- 11:10 - 11:20 P07.26 The Arctic cryosphere in the mid-Pliocene and the future
Daniel Lunt (UK), **A Haywood**
- 11:20 - 11:30 P07.27 The Greenland Norse and the little ice age: large scale climate changes to a small scale society
Niels Lynnerup (Denmark), **J Arneborg**, **J Heinemeier**, **E Nelson**
- 11:30 - 11:40 P07.28 A 1000 year mid-interglacial cold phase at about 400 ka BP in the Piànico lake record
Clara Mangili (Germany), **A Brauer**, **P Dulski**, **A Moscariello**, **B Plessen**
- 11:40 - 11:50 P07.29 Afromontane ecosystem stability or change ? Combining methodologies to understand past, present and future ecosystem shifts within the Eastern Arc biodiversity hotspot of Tanzania and Kenya
Rob Marchant (UK), **A Ahrends**, **J Finch**, **A Jump**, **J Lovett**, **C McClean**, **C Mumbi**, **P Platts**, **P Yanda**
- 11:50 - 12:00 P07.30 Simulating the climate of the early holocene
Uwe Mikolajewicz (Germany)
- 12:00 - 12:10 P07.31 Reconstructing past climate change from glacier shrinkage on Kilimanjaro
Thomas Moelg (Austria), **NJ Cullen**, **DR Hardy**, **G Kaser**
- 12:10 - 12:20 P07.32 Historical analysis of the first rain event and the number of rain days in the western part of Palakkad gap, south India
Raj Nikhil (India), **PA Azeez**
- 12:20 - 12:30 P07.33 Rapid centennial scale reductions in North Atlantic deep water during the peak of the last interglacial period recorded in sediments from the Eirik drift
Ulysses Ninnemann (Norway), **H Kleiven**, **E Galaasen**
- 12:30 - 12:40 P07.34 Did mid-Holocene climate and sea-level change trigger a shift in culture in Denmark 6000 years ago?
Nannan Noe-Nygaard (Denmark)
- 12:40 - 12:50 P07.35 Environments and societies of small Caucasus (Armenia) in the light of the Quaternary climatic changes and landscape mutations
Vincent Ollivier (France), **S Nahapetyan**, **P Roiron**, **I Gabrielyan**, **JJ Cornée**, **S Joannin**, **C Chataigner**, **J Jaubert**, **B Gasparyan**
- 12:50 - 13:00 P07.36 Perception & understanding of global climatic changes - a case study with the vulnerable communities in Sri Lanka
Prabhath De Silva Patabendi (Sri Lanka)
- 13:00 - 13:10 P07.37 Late glacial and early holocene climatic oscillations and human waves of immigration into Scandinavia
Erik Brinch Petersen (Denmark)

Session 07 - Informing the Future by Understanding the Past Part II (cont.)

- 13:10 - 13:20 P07.38 Vulnerabilities to climate change for metropolitan cities in Bangladesh and future challenges for urban planning and development
Khan Rubayet Rahaman (Bangladesh), *MS Swapan*
- 13:20 - 13:30 P07.39 Lake ecosystem response to climate change 8200 years ago. A multi-proxy study at Lake Højby Sø, Denmark
Peter Rasmussen (Denmark), *M Ulfeldt Hede, N Noe-Nygaard, AL Clarke, RD Vinebrooke*
- 13:30 - 13:40 P07.40 Observed summer extreme temperatures in Europe during the 21st century: a synthesis
Martine Rebetez (Switzerland), *A Davison, O Dupont, K Gartner, M Giroud, JP Kropp, H Mayer, A Menzel, M Reinhard, D Schindler, M Suveges*
- 13:40 - 13:50 P07.41 Quaternary tufa in the Serra da Bodoquena Karst, West-Central Brazil: evidence of wet period
William Sallun Filho (Brazil), *I Karmann, A Ernandes Martins Sallun, K Suguio*
- 13:50 - 14:00 P07.42 Severe storms drive Holocene Island evolution and coral reef biodiversity of the Houtman Abrolhos Archipelago, WA
Sander Scheffers (Australia), *A Scheffers, D Kelletat*
- 14:00 - 14:10 P07.43 The present warming vs. the early 20th century warming in the Arctic: a 400 year perspective
Torben Schmith (Denmark)
- 14:10 - 14:20 P07.44 Comparison of modeled and reconstructed sea surface temperature trends during the Holocene
Birgit Schneid (Germany), *er, G Leduc, W Park*
- 14:20 - 14:30 P07.45 Pseudomorph after ikaite – called Glendonite is it a geological thermometer in cold sediments or geological oddity as it occurs close to PETM in the Fur formation
Bo Pagh Schultz (Denmark)
- 14:30 - 14:40 P07.46 The North Greenland Eemian Ice Core Drilling Project (NEEM)
Jørgen Peder Steffensen (Denmark)
- 14:00 - 14:10 P07.47 Global maps of reconstructed $\delta^{13}C$ values of terrestrial biomass from 30ka BP to present
F Alayne Street-Perrott (UK), *TJ Daley, R Fraser*
- 14:10 - 14:20 P07.48 Impacts of multidecadal climate oscillations on marine ecosystems and fish stocks
Svein Sundby (Norway)
- 14:20 - 14:30 P07.49 Comparing interglacial climates: a case study of Greenland ice core impurities
Anders Svensson (Denmark), *M Bigler, E Kettner, M Nielsen, D Dahl-Jensen*
- 14:30 - 14:40 P07.50 The Thule culture in relation to changes in climate and environment in Northeast Greenland, 1400-1850 AD
Mikkel Sørensen (Denmark), *JT Pedersen, AB Gotfredsen, B Grønnow, BH Jakobsen, HC Gulløv, A Kroon, JF Jensen, M Meldgaard*
- 14:40 - 14:50 P07.51 How do we learn about climate sensitivity in the future?
Brian O'Neill (Austria), *K Tanaka*
- 14:50 - 15:00 P07.52 The phytoplankton record of the end-Cretaceous warming in the Boreal realm and the Pacific Ocean
Nicolas Thibault (Denmark), *N Schovsbo, F Surlyk, L Stemmerik*
- 15:00 - 15:10 P07.53 Land use and climate change, historic simulations with EC-EARTH
Michiel van der Molen (The Netherlands), *B van den Hurk, W Hazeleger*
- 15:10 - 15:20 P07.54 Stratigraphical dating of ice cores using high resolution profiles
Mai Winstrup (Denmark), *A Svensson*

Session 08 - Earth System Feedbacks and Carbon Sequestration

- 11:00 - 11:10 P08.01 Climate change and ecosystems – new challenges, trends and solutions in research
Claus Beier (Denmark), *L Linden, K Pilegaard, I Schmidt*
- 11:10 - 11:20 P08.02 Hotspots of greenhouse gas emissions – reducing the carbon sink potential of forest soils
Jesper Riis Christiansen (Denmark), *P Gundersen, L Vesterdal*
- 11:20 - 11:30 P08.03 How much carbon is sequestered in forest soils? Is it enhanced by nitrogen deposition and for how long?
Per Gundersen (Denmark), *NB Dise, IK Schmidt, K Hansen, L Vesterdal*

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11:00 - 12:30 P08

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Session 08 - Earth System Feedbacks and Carbon Sequestration (cont.)

- 11:30 - 11:40 P08.04 Is nitrogen deposition the main driver of increasing carbon sequestration in a Danish beech forest?
Klaus Steenberg Larsen (Denmark), A Ibrom, K Pilegaard, P Ambus, MS Carter, C Beier
- 11:40 - 11:50 P08.05 Water use efficiency as a measure to assess forest carbon uptake for different management strategies
Maj-Lena Linderson (Denmark), TN Mikkelsen, A Ibrom, A Lindroth, K Pilegaard
- 11:50 - 12:00 P08.06 Effects of climate change on carbon sequestration in a Danish beech forest
Kim Pilegaard (Denmark), E Dellwik, A Ibrom
- 12:00 - 12:10 P08.07 Climate change factors increase ammonium, amino acids, DON and DOC in soil solution in a sub-arctic birch forest in northern Sweden
Bjarne W Strobel (Denmark), M Olsrud, R Giesler
- 12:10 - 12:20 P08.08 Soil carbon sequestration following afforestation in Denmark, Sweden and the Netherlands
Lars Vesterdal (Denmark), M-B Johansson, C van der Salm, K Hansen
- 12:20 - 12:30 P08.09 The land CO₂ sink and soil carbon
Michiel van der Molen (The Netherlands), H Dolman, A Freibauer

11:00 - 13:15 P09

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Session 09 - Detection and Attribution: State of Play in 2009

- 11:00 - 11:10 P09.01 Detection and understanding of climatic response to urbanization over major cities of India
Amit Dhorde (India), A Wakhare
- 11:10 - 11:20 P09.02 Causes for the recent changes in cold and heat related mortality in England and Wales
Nikolaos Christidis (UK), GC Donaldson, PA Stott
- 11:20 - 11:30 P09.03 Comparison of the global estimates of carbon dioxide from satellite and in situ measurements
Carlos Garcia-Soto (Spain)
- 11:30 - 11:40 P09.04 The role of the sun in climate change
Katya Georgieva (Bulgaria)
- 11:40 - 11:50 P09.05 The economic impact of climate change on agriculture in Cameroon
Cornelius Lambi (Cameroon), T Forbang
- 11:50 - 12:00 P09.06 Estimation of permafrost thawing rates in the sub-arctic using recession flow analysis
Steve Lyon (Sweden), G Destouni, R Giesler, C Humborg, M Morth, J Seibert, J Karlsson, P Troch
- 12:00 - 12:10 P09.07 Impact of climate variations on the north-east Atlantic shelf-break systems: lessons from a recent past.
Ilaria Nardello (Ireland), C Lynam, C Cusack, H Cannaby, G Nolan, H Hatun
- 12:10 - 12:20 P09.08 Convective origin of stratospheric water vapor?
Johannes K Nielsen (Denmark), N Larsen, T Christensen, S Khaykin, J-P Pommereau
- 12:20 - 12:30 P09.09 Wind speed trends over the contiguous USA
Sara C Pryor (USA), RJ Barthelmie, GS Takle
- 12:30 - 12:40 P09.10 The GPS radio occultation record – a novel dataset for atmospheric change detection
Andrea K Steiner (Austria), G Kirchengast, BC Lackner, GC Hegerl, B Pirscher, M Borsche, Ul Foelsche
- 12:40 - 12:50 P09.11 Early detection of the global warming impact on permafrost in East Asia
Qinxue Wang (Japan), M Watanabe, Q Xiao, T Wu, J Liu, O Batkhisig

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Session 09 - Detection and Attribution: State of Play in 2009 (cont.)

- 12:50 - 13:00 P09.12 The observed and simulated anatomy of ocean temperature trends
Susan Wijffels (Australia), P Barker, T Cowan, A Sullivan, M Feng
- 13:00 - 13:10 P09.13 Will nutrient cycles in a tropical montane forest in Ecuador be affected by a changing element composition of rainfall?
Hans Wullaert (Germany), GO Martinson, J Homeier, E Veldkamp, W Wilcke

11:00 - 12:00 P10

Hall C

Session 10 - Equity between Sectors and Individuals within Countries

- 11:00 - 11:10 P10.01 Progressivity in the incidence of a 'capacity and responsibility tax' to fund climate mitigation and adaptation: extending the greenhouse development rights framework
Paul Baer (USA), S Kartha, T Athanasiou, E Kemp-Benedict
- 11:10 - 11:20 P10.02 Efficiency and distribution effects of resource and energy taxes for climate protection
Klaus Eisenack (Germany), O Edenhofer, M Kalkuhl
- 11:20 - 11:30 P10.03 Carbon tax and equity: a sheer matter of policy design
Frédéric Gherzi (France), J-C Hourcade, E Combet
- 11:30 - 11:40 P10.04 Time and space matter: how urban climate policies create inequality
Stephane Hallegatte (France), F Gusdorf, A Lahellec
- 11:40 - 11:50 P10.05 Integrating flood control and water storage development in the face of anticipated climate forcings
Pal Hegedus (USA), R Shibatani

11:00 - 14:30 P11

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Session 11 - Equity between Nations and Regions

- 11:00 - 11:10 P11.01 The eclipse of liberal democracy under the threat of nature - can science save us to what prize?
Thora Margareta Bertilsson (Denmark), A Blok
- 11:10 - 11:20 P11.02 How fair do we want to be? An analysis of three different justice principles for post 2012 emission target definition
Sven Bode (Germany), A De Vita
- 11:20 - 11:30 P11.03 Sharing the burden of adaptation financing: translating ethical principles into practical policy
Michel den Elzen (The Netherlands), R Dellink
- 11:30 - 11:40 P11.04 Distributive equity concerns in an international REDD mechanism: towards a Copenhagen climate agreement
Kate Dooley (UK), C Okereke
- 11:40 - 11:50 P11.05 The most likely global post-2012 policy scenarios based on expert criteria which focus on technological cooperation and developing country participation
Ronal Gainza Carmenates (Switzerland), JC Altamirano-Cabrera, P Thalmann
- 11:50 - 12:00 P11.06 Estimating the global mean temperature response to greenhouse gas emissions reductions with non-uniform international action.
Laila Kishwar Gohar (UK), JA Lowe
- 12:00 - 12:10 P11.07 How to engage developing countries in mitigation actions?
José Goldemberg (Brazil), S Coelho
- 12:10 - 12:20 P11.08 Inequity in climate change mitigation and adaptation capacities: the case for Nigeria and Sub-Saharan Africa
Richard UU Iingwe (Nigeria), JE Otu, JK Ukwai
- 12:20 - 12:30 P11.09 Conceptualizations of justice in climate policy
Sonja Klinsky (Canada), H Dowlatabadi
- 12:30 - 12:40 P11.10 The theory of justice in a warming climate
Jan Kunnas (Finland)
- 12:40 - 12:50 P11.11 CO2 arithmetics and geopolitics
Olivier Ragueneau (France)
- 12:50 - 13:00 P11.12 Sustainable underdevelopment or technological autonomy?
Pettersen Molina Vale (Brazil)
- 13:00 - 13:10 P11.13 GHG historical emissions and Equity
Maria Silvia Muylaert de Araujo (Brazil)

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11:00 - 14:30 P11

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Session 11 - Equity between Nations and Regions (cont.)

- 13:10 - 13:20 P11.14 Implications for National Emission Reduction Targets of Halving Global Greenhouse Gas Emissions by 2050
Hiromi Nishimoto (Japan), N Kanie, Y Hijioka, K Morita
- 13:20 - 13:30 P11.15 Adapting to climate change in the unequal world: patterns of vulnerabilities and the distribution of adaptation burden in the Nepal's Himalayas
Hemant Ojha (Nepal), B Pokharel, J Baral, G Guring, R Subedi
- 13:30 - 13:40 P11.16 The need to mainstream climate change adaptation funding
Margaret Peloso (USA)
- 13:40 - 13:50 P11.17 The role of the law in the protection of the climate
Bartosz Rakoczy (Poland)
- 13:50 - 14:00 P11.18 Equity aspects of a biosphere carbon stock management response to threatened climatic catastrophe
Peter Read (New Zealand)
- 14:00 - 14:10 P11.19 Mitigating the impact of uncertainties in base year and GDP forecasts on international effort sharing calculations
Laura Saikku (Finland), S Soimakallio
- 14:10 - 14:20 P11.20 Estimation of carbon emission embodied in Chinese international trade in the view of final demands
Benyong Wei (PR China), X Fang
- 14:20 - 14:30 P11.21 Does geography matter for the clean development mechanism?
Yongfu Huang (UK), T Barker

11:00 - 11:30 P12

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Session 12 - Equity in Time: Past, Present and Future Emitters and Victims

- 11:00 - 11:10 P12.01 International CO2 emissions distribution analysis from integrated assessment models
Nicola Cantore (Italy), M Canavari
- 11:10 - 11:20 P12.02 Global justice and climate change
Kristian Høyer Toft (Denmark)
- 11:20 - 11:30 P12.03 Brazil in the global arena of mitigating climate change: national interest, global equity and ambivalence
Eduardo Viola (Brazil)

11:00 - 12:15 P15

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Session 15 - Avoiding Land-Cover Change To Reduce Carbon Emissions

- 11:00 - 11:10 P15.01 Exploring the relationship between avoided carbon emissions potential and biodiversity value – is there a role for biodiversity in REDD?
Matthew Foster (USA), T Brooks, R Jimenez, OML Kouamé, A Rasolohery, O Coroza
- 11:10 - 11:20 P15.02 Effect of dissolve organic carbon, soil and air temperature, and soil moisture on soil CO2 flux in different land uses
Javed Iqbal (PR China), H Ronggui
- 11:20 - 11:30 P15.03 Linking remote sensing and field data to model carbon stocks in the Congo Basin: a tool for REDD
Kewin Bach Friis Kamelarczyk (Denmark), EJ Lindquist
- 11:30 - 11:40 P15.04 Temporary carbon sequestration cannot prevent climate change
Miko Uwe Franz Kirschbaum (New Zealand)
- 11:40 - 11:50 P15.05 Climate policy: spatial explicit heterogeneity matters – the case of tropical deforestation at Northwestern Ecuador
Daniel Ortega-Pacheco (USA), S Jiang, A Keeler, B Sohngen, D Southgate
- 11:50 - 12:00 P15.06 Could China's agriculture be developed to serve the climate change mitigation? Proposal on the key factors research and demonstration project for the implementation of carbon labeling in Chin Proposal on the key factors research and demonstration project
Genxing Pan (PR China)

Session 15 - Avoiding Land-Cover Change To Reduce Carbon Emissions (cont.)

- 12:00 - 12:10 P15.07 Estimation of turnover time of soil organic carbon from temperate steppe of northern China and implications for carbon sequestration after grazing exclusion
Liping Zhou (PR China), H Tang, Y Li

Session 17 - Carbon Capture and Storage: Technology, Economy, Social Attitudes

- 11:00 - 11:10 P17.01 The IEA greenhouse gas R&D programme
John Gale (UK)
- 11:10 - 11:20 P17.02 Full-scale CCS demo plant at Nordjyllandsværket, Denmark
Niels Peter Christensen (Denmark), F Dalhoff, O Biede, M Noer
- 11:20 - 11:30 P17.03 Carbon dioxide capture R&D for fossil energy power plants
Jared Ciferno (USA), T Fout
- 11:30 - 11:40 P17.04 Aqueous ammonia process for CO₂ capture
Victor Darde (Denmark), K Thomsen, WJM van Well, EH Stenby
- 11:40 - 11:50 P17.05 Enzyme technology for carbon dioxide separation from mixed gases
Sonja Salmon (USA), P Saunders, M Borchert
- 11:50 - 12:00 P17.06 A new type of absorbent for post-combustion CO₂ capture and its application to pilot plant in power station
Jae-Goo Shim (South Korea), J-H Kim, K-R Jang
- 12:00 - 12:10 P17.07 On thermophysical properties of CO₂/H₂O mixtures with impurities in oxyfuel CCS systems
Eva Thorin (Sweden), J Yan, H Li
- 12:10 - 12:20 P17.08 A novel method to capture and store flue gas carbon dioxide (CO₂): accelerated mineral carbonation
Katta Jayaram Reddy (USA), MD Argyle, A Viswatej, DT Taylor
- 12:20 - 12:30 P17.09 Coastal spreading of olivine to reduce atmospheric CO₂ concentrations: a critical analysis
Suzanne Hangx (The Netherlands), C Spiers
- 12:30 - 12:40 P17.10 Reliability of pipe steels 42CrMo-4 and X46Cr13 during onshore carbon Dioxid injection
Anja Pfennig (Germany), A Kranzmann
- 12:40 - 12:50 P17.11 Tracing the fate of injected CO₂ in the subsurface using chemical and isotopic techniques
Gareth Johnson (Canada), B Mayer, M Raistrick, M Shevalier, M Nightingale, I Hutcheon
- 12:50 - 13:00 P17.12 A geothermal site combined with CO₂-storage
Karl-Heinz Wolf (The Netherlands), D Gilding, A Wever
- 13:00 - 13:10 P17.13 Matching CO₂ large point sources and potential geological storage sites in mainland Portugal
Ana Gomes (Portugal)
- 13:10 - 13:20 P17.14 The global comeback of coal-to-liquids (CTL) technologies: can CCS make CTL compatible with climate protection needs?
Daniel Vallentin (Germany), M Fishedick
- 13:20 - 13:30 P17.15 Expected fatalities for one wedge of carbon capture and storage mitigation in 2050
Minh Ha-Duong (France), R Loisel
- 13:30 - 13:40 P17.16 RECCS: ecological, economic, and structural comparison of renewable energy technologies (RE) with carbon capture and storage (CCS) – an integrated approach
Peter Viebahn (Germany), M Fishedick, J Nitsch
- 13:40 - 13:50 P17.17 Environmental impacts of a German CCS strategy
Diana Schumann (Germany), P Zapp, P Markewitz, A Schreiber, S Vögele
- 13:50 - 14:00 P17.18 Implications of CCS for the North-Western European electricity market and for CO₂ emissions in The Netherlands
Ad Seebregts (The Netherlands), H Groenenberg
- 14:00 - 14:10 P17.19 Social acceptance of carbon capture and storage (CCS) in Germany
Katja Pietzner (Germany), D Schumann, M Fishedick, A Esken
- 14:10 - 14:20 P17.20 Experts' and laypeople's perception of carbon capture and storage in Switzerland
Lasse Wallquist (Switzerland), V Visschers, M Siegrist
- 14:20 - 14:30 P17.21 Gaining public confidence in safe CO₂ underground storage in a populated area
Troels Laier (Denmark), H Øbro

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Session 17 - Carbon Capture and Storage: Technology, Economy, Social Attitudes (cont.)

- 14:30 - 14:40 P17.22 Carbon capture and storage in the post-Kyoto climate change negotiations
Karin Bäckstrand (Sweden)

11:00 - 12:45 P20

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Session 20 - Enhancing Energy Conservation and Efficiency

- 11:00 - 11:10 P20.01 Scouting the path to Buildings 2.0
Philippe Bonnet(Denmark), *J Polastre*
- 11:10 - 11:20 P20.02 The role of steel in reducing energy use and life cycle green house gas emissions
Nick Coleman (UK), *C Broadbent, G Coates*
- 11:20 - 11:30 P20.03 Economic competitiveness of combined heat and power district heating (CHP-DH) for climate change mitigation: a comparative analysis of schemes in the UK
Scott Kelly (UK), *M Pollitt*
- 11:40 - 11:50 P20.04 Gravity goods ropeway an alternative sustainable solution for rural transportation with out hampering to the natural environment and climate: a case study from Janagaun village
Deepak Babu Kandel (Nepal), *KC Laxman*
- 11:50 - 12:00 P20.05 Residential energy demand, climate change and urban planning
Xiaochen Liu (Ireland), *J Sweeney*
- 12:00 - 12:10 P20.06 Low temperature laundering: life cycle assessment
Jesper Duus Nielsen (Denmark), *S Munk*
- 12:10 - 12:20 P20.07 Integrating climate change concerns into energy efficiency in Uganda
Martin Luther Mukiibi (Uganda), *A Nabuduwa*
- 12:20 - 12:30 P20.08 Estimation of the total effect of Novozymes' enzyme production in 2007 on climate change
Per Henning Nielsen (Denmark), *AM Nielsen, J Kløverpris*
- 12:30 - 12:40 P20.09 Massively reducing CO2 emission by innovative computing education
Reiner Hartensen (Germany)

11:00 - 14:30 P24

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Session 24 - The Role of Agriculture in Mitigating Climate Change Part II

- 11:00 - 11:10 P24.21 Nitrous oxide emissions and soil physico-chemical changes: effects of tillage systems
James K Mutegi(Denmark), *SO Petersen, LJ Munkolm, BM Petersen*
- 11:10 - 11:20 P24.22 Deep soil carbon sequestration rates under no tillage in tropical and temperate climate
Rodrigo S Nicoloso (USA), *CW Rice, TJC Amado, JE Fiorin*
- 11:20 - 11:30 P24.23 The role of complex agroecosystems in sequestering carbon and mitigating global warming
Maren Oelbermann (Canada), *L Echarte, K Vachon, C Dubois*
- 11:30 - 11:40 P24.24 Stock, dynamics of soil organic carbon of China's croplands and the role in climate change mitigation
Genxing Pan (PR China)
- 11:40 - 11:50 P24.25 Agriculture: a potential source of greenhouse gases and their mitigation strategies
Amitava Rakshit (India), *NC Sarkar, H Pathak, RK Maiti, AK Makar, PL Singh*
- 11:50 - 12:00 P24.26 Mitigation of greenhouse gas fluxes from cultivated organic soils by raising water table
Kristiina Regina (Finland), *M Myllys*
- 12:00 - 12:10 P24.27 How critical is the baseline to assess carbon sequestration in agricultural soils?
Charles W Rice (USA), *TJC Amado, RS Nicoloso*
- 12:10 - 12:20 P24.28 Influence of soil tillage systems on soil organic matter dynamics in some soils of Transylvania (Romania)
Teodor Rusu (Romania), *P Gus, I Bogdan, P Moraru, A Pop, H Cacovean, L Pop*
- 12:20 - 12:30 P24.29 NIRS-LS-SVM to estimate carbon mitigation potential of agricultural land in Brazilian Cerrado soils
Sandra Oliveira Sá (Brazil), *D Althmann, KL Figueiredo, M Bernoux, RJ Poppi, CC Cerri*
- 12:30 - 12:40 P24.30 Land use and drainage controls on greenhouse gas emissions from managed peatland
Kirsten Schelde (Denmark), *P-E Lærke, M Lægdsmand, C Kjærgaard, JE Olesen*

Session 24 - The Role of Agriculture in Mitigating Climate Change Part II (cont.)

- 12:40 - 12:50 P24.31 Methanogenic archaea: conditions for inhibitory action of four saturated fatty acids when added to pure cultures
Carla Riccarda Soliva (Switzerland), *S Bucher, L Meile, M Kreuzer*
- 12:50 - 13:00 P24.32 Sugar beet, bioethanol, and climate change
Jens Carl Streibig (Denmark), *C Ritz, CB Pipper, F Yndgaard, K Fredlund, J Nyholm Thomsen*
- 13:00 - 13:10 P24.33 Carbon sequestration by cropland soil in China: potential and feasibility
Xiaoke Wang (PR China), *F Lu, B Han, Z Ouyang*
- 13:10 - 13:20 P24.34 Urban agriculture and its impact on climate change - Atatürk Forest Farm in Ankara as a sample
Meltem Yilmaz (Turkey)
- 13:20 - 13:30 P24.35 Impacts of climate change factors (temperature, drought, elevated CO₂) on CO₂, N₂O and CH₄ fluxes in an upland grassland
Jean-François Soussana (France), *A Cantarel, JMG Bloor*
- 13:30 - 13:40 P24.36 Adapting agriculture and managed ecosystems to climate change (ADAGE project)
Jean-François Soussana (France), and ADAGE Consortium Members
- 13:40 - 13:50 P24.37 Modelling climate change impacts on grasslands and possible adaptations of livestock systems
Jean-François Soussana (France), *A-I Graux, N Brisson, D Hill, R Lardy*
- 13:50 - 14:00 P24.38 Vulnerability assessment of livestock and grasslands to climate change and extreme events (VALIDATE project)
Jean-François Soussana (France), *GA Alessio, JL Durand, R Baumont, F Volaire, J Roy, S Lavorel, X Le Roux, N Viovy, F Ruget, M Duru, PA Jayet, L Terray et al.*
- 14:00 - 14:10 P24.39 Mitigating livestock greenhouse gas balance through carbon sequestration in grasslands
Jean-François Soussana (France), *K Klumpp, T Tallec*
- 14:10 - 14:20 P24.40 Biochar as a soil amendment positively interacts with nitrogen fertiliser to improve barley yields in the UK
Alfred Gathorne-Hardy (UK), *J Knight, J Woods*

Session 28 - Climate Change and Air Pollution: The Role of non-CO₂ Atmospheric Pollutants (CH₄, Halocarbons, N₃), Ozone, Aerosols) in Climate Stabilization

- 11:00 - 11:05 P28.01 Role of landfills in increasing greenhouse gases emission: case study: Tehran landfills methane emission rate, measure by landgem model
Leila Ahmadi (Iran), *S Boudaghpour, A Ahmadi*
- 11:05 - 11:10 P28.02 Effects of climate control on air pollution: coupling an energy-environment-economy global model (E3MG) and atmospheric chemistry model (p-TOMCAT) in decarbonising international transport
Annela Anger (UK), *O Dessens, T Barker, H Rogers, R Jones, J Pyle*
- 11:10 - 11:15 P28.03 Megacities: emissions, urban, regional and global atmospheric Pollution and climate effects, and integrated tools for assessment and mitigation (EC 7FP Project MEGAPOLI)
Alexander Baklanov (Denmark), *M Lawrence, S Pandis, and MEGAPOLI Team*
- 11:15 - 11:20 P28.04 Potential reduction in mitigation costs from multi-gas abatement: a meta-analysis based on EMF21 and other literature on GDP costs
Terry Barker (UK), *S Tashchilova*
- 11:20 - 11:25 P28.05 The study of anthropogenic climate change
Tatjana Dovbysheva (Belarus), *A Yasko*
- 11:25 - 11:30 P28.06 Pilot tests of gas mixture enhanced coalbed methane recovery technology
Zhiming Fang (PR China), *X Li, H Li, Y Wang, H Chen, G Fu*
- 11:30 - 11:35 P28.07 Condensation trails in the regional climate model CCLM
Andrew Ferrone (Belgium), *P Marbaix, B Matthews, JP van Ypersele, R Lescroart*

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11:00 - 13:00 P28

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Session 28 - Climate Change and Air Pollution: The Role of non-CO2 Atmospheric Pollutants (CH4, Halocarbons, N3), Ozone, Aerosols) in Climate Stabilization (cont.)

- 11:35 - 11:40 P28.08 Impacts of climate change on air pollution levels in the Northern Hemisphere
Gitte Brandt Hedegaard (Denmark), *J Brandt, J H. Christensen, LM Frohn, C Geels, KM Hansen*
- 11:40 - 11:45 P28.09 Quick wins for climate: a three-pronged framework for international mitigation policy
Stacey C Jackson (USA)
- 11:45 - 11:50 P28.10 Isotopic analysis of atmospheric hydrocarbons from CH4 to H2, CO and CO2
Elna JK Nilsson (Denmark), *MS Johnson*
- 11:50 - 11:55 P28.11 Urban PM2.5 aerosol source identification by factor analysis of elemental composition related to meteorological data
Jens Laursen (Denmark), *IJK Aboh, D Henriksson, ES Lindgren, M Lundin, N Pind, T Wahnström*
- 11:55 - 12:00 P28.12 Is mitigation of aviation emissions and induced cloudiness needed to stabilise climate change <2°C?
Philippe Marbaix (Belgium), *B Matthews, A Ferrone, J-P van Ypersele*
- 12:00 - 12:05 P28.13 Lifetime leveraging: an approach to achieving international agreement and effective climate protection using mitigation of short-lived greenhouse gases
Frances Moore (USA), *M MacCracken*
- 12:05 - 12:10 P28.14 Climate change impact of selected 2nd generation CFC replacements
Ole John Nielsen (Denmark)
- 12:10 - 12:15 P28.15 Coal burning environmental impact in central India
Khageshwar Singh Patel (India)
- 12:15 - 12:20 P28.16 The role of surface active molecules in cloud droplet formation
Noenne Lyng Prisle (Denmark), *T Raatikainen, A Laaksonen(2,3), M Bilde*
- 12:20 - 12:25 P28.17 Atmospheric clustering, absorption and anti-greenhouse effect
Oksana Rakhmanova (Russian Federation), *A Galashev*
- 12:25 - 12:30 P28.18 Chemical characterization of airborne fine particulate matter in urban regions of Tamilnadu and their potential role in Urban Heat Island
Mohanraj Rangaswamy (India), *C Lakshumanan*
- 12:30 - 12:35 P28.19 Climate change characterization in São Luiz, MA, Brazil
Carlos Márcio de Aquino Eloi (Brazil), *SO Sá, RM Silva, G de Azevedo Reschke*
- 12:35 - 12:40 P28.20 Sea surface temperature over Tropical Indian Ocean and southwest Monsoon performance
Umesh Singh (India), *RP Singh, PS Salvekar*
- 12:40 - 12:45 P28.21 Light duty vehicle non-CO2 emissions: assessing the climate forcing
Timothy J Wallington (USA), *OJ Nielsen*
- 12:45 - 12:50 P28.22 Evaporation of organic and inorganic/organic particles
Alessandro Alessio Zardini (Denmark), *I Koponen, I Riipinen, M Kulmala, M Bilde*

11:00 - 13:30 P35

Hall C

Session 35 - Adapting Coastal Zone and Marine Resources to Climate Change Part II

- 11:00 - 11:10 P35.13 Future storm surge risk in Denmark
Kristine S Madsen (Denmark), *I Kliem*
- 11:10 - 11:20 P35.14 Analysis of disaster vulnerability for sustainable coastal zone management: a case of cyclone Sidr 2007 in Bangladesh
Bishawjit Mallick (Germany), *J Vogt*
- 11:20 - 11:30 P35.15 Sustainable coastline management: a resilient strategy to cope with climate change
Marcel Marchand (The Netherlands), *T Bucx, A Jeuken, J Mulder*
- 11:30 - 11:40 P35.16 Assessing the impact of rising sea levels in Southeast Australia
Kathleen McInnes (Australia), *B Preston, I Macadam, G Hubbert, J O'Grady*
- 11:40 - 11:50 P35.17 Climate change adaptation: Bangladesh perspective
Chowdhury Mohammed Farouque (Bangladesh)

Session 35 - Adapting Coastal Zone and Marine Resources to Climate Change Part II (cont.)

- 11:50 - 12:00 P35.18 Climate changes – Impacts on coastal Mudbank formation and adaptations of coastal fisheries
Joseph Paimpillil (India)
- 12:00 - 12:10 P35.19 National law & climate change adaptation: a comparative analysis with implications for response to sea level rise
Margaret Peloso (USA), M Caldwell, M Orbach
- 12:10 - 12:20 P35.20 West African weather systems in the development of tropical cyclones
Tairu Salami (Nigeria)
- 12:20 - 12:30 P35.21 Climate change adaptation in coastal zones: improving decision-making to support management strategies
Francesca Santoro (Italy), S Torresan, A Critto, A Marcomini
- 12:30 - 12:40 P35.22 Vulnerability of Eastern Quebec coastal communities to climate change
Jean-Pierre Savard (Canada), F Morneau
- 12:40 - 12:50 P35.23 Turning hazards into resources?: Climate change, floods and coastal wetlands in the Costa Brava (North-East Iberian Peninsula)
Anna Serra Llobet (Spain), D Saurí Pujol
- 12:50 - 13:00 P35.24 Depletion of natural resources at Goa, India – a case study
Shalini Sharma (India)
- 13:00 - 13:10 P35.25 Community adaptation to climate change and other environmental changes in the Niger Delta region of Southern Nigeria
Etiosa Uyigue (Nigeria), M Agho
- 13:10 - 13:20 P35.26 Climate change: threat or opportunity for Belgian sea fisheries?
Els Vanderperren (Belgium), R De Sutter, H Polet