Deatiled Poster Session programme

**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 Bauen*

**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** Carbon and biodiversity: increasing benefits from REDD will be included in the printed materials for the Congress  
*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 Kölking (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 Leskenen, 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*
Tuesday, 10 March 2009
15:00 - 17:30 P19  Hall C

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

15:40 - 15:50 P19.05  Microgeneration from renewable and non-renewable sources

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 adaptive 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 Ronne (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 - 17:00 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  Session 23 - Integrating National and International Approaches to Carbon Pricing: Developing a Global Framework  Hall C

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
Tuesday, 10 March 2009
15:00 - 17:00 P23

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

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 Brühl, P Donald, D Murdiyarso, B Phalan, H Wenzel, P Nielsen

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 Thøy, 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 Kreutzer, 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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15:00 - 18:30 P25  Hall C
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 Næss, 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
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)
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 pre-Saharan basins of southern Morocco
Mohammed Yacoubi Khebiza (Morocco), L Bourab, A Ait Boughrous, 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 Andreassen (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 Rouncevell, 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, IA 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 Braun Hansen

17:20 - 17:30  P30.15  ICES role in the world of changing climate
Harald Loeng (Norway), A Kellermann

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
15:00 - 15:10  P34.01  Reviewing concerns for illegal land use and adaptation to climate change in populating 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 Ronn, 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 Fasona** (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  P34.10  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  P34.11  Production of biomedicine under different climatic conditions - Artemisinin as study case  
**Karina Knudsmark Jessing** (Denmark), N Cedergreen, BW Strobel

17:00 - 17:10  P34.12  Modeling the land requirements and potential productivity of biofuel crops in Brazil and India  
**David M Lapola** (Germany), J Priess

17:10 - 17:20  P34.13  Changing farming systems in Montane Mainland Southeast Asia, resiliency and climate change  
**Stephen Leisz** (USA)

15:00 - 18:30  P37  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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15:00 - 18:30 P37  
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 Hol-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  
**Lente 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 Ntandu, F Stadler, S Basu, JL Christiansen**

17:40 - 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 Chop, 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 Doledec, JF Tourrand, M Grimaldi**

15:00 - 18:30 P39  
Session 39 - Climate Tools and Information to Support Adaptation

15:00 - 15:10  P39.01  Objectives of public economic policy and the adaptation to climate change  
**Stine Aakre** (Norway), **DTG Rübbelke**

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, J-D Hessel, B Tinz**
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15:00 - 18:30 P39

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 Zabeldia

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 Herrera

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

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

15:30 - 17:40 P41.03  Planting window as an adaptation option to offset the likely impacts of climate change with emphasis on Rainfed areas
   Humaira Sultan (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)
Tuesday, 10 March 2009
15:00 - 17:30 P41
Hall C
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
Hall C
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 Doussset (France), K Llaadi, H Olivier, A Zeghnoun, E Giraudet, F Gourmelon, P Breitn, 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
Tuesday, 10 March 2009
15:00 - 15:30 P43
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
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
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
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 Teka (Germany), B Mallick, J Vogt
Tuesday, 10 March 2009

15:00 - 15:45 Session 48 - Earth System Governance

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

15:00 - 16:00 Session 49 - The Role of Integrated Assessment Models in Handling Climate Change

- Improving the representation of climate-economy feedbacks in integrated assessments
  Neil Robert Edwards (UK)
- 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 Fuesseel, R Hankin, J Hinkel, C Linstead, R Nicholls, J O’Hanley, TJ Osborn, S Raper, G Riley, HJ Schellnhuber
- Where next with global environmental scenarios?
  Simone Pulver (USA), B O’Neill, S VanDeveer, Y Garb
- Improving the use of integrated assessment models: reconciling model results with user needs
  Serge IP Stalpers (The Netherlands)
- 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 Paltey, JM Reilly

15:00 - 17:30 Session 50 - Enabling Long Term Climate Policy

- 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, Â Scrieciu, S Tashchilova, R Warren
- Long-term climate policy in Croatia - far far away?
  Ana-Maria Boromisa (Croatia), S Tima, P Gracin
- Analysis of North American action plans and policies on climate change
  Yves Gagnon (Canada), E Godbout-Beaulieu, R Daigle
- Accelerating financing of CDM and voluntary emission reduction projects
  Jai Kumar Gaurav (India)
- Does the Clean Development Mechanism Contribute to Sustainable Development?
  Yongfu Huang (UK), T Barker
- 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
- Sustainable urban infrastructure for long-term carbon emissions mitigation in China
  Jun Li (France), M Colombier
- North American climate change governance: past, present and future
  Henrik Selin (USA), S van Deveer
- Political and economic determinants of long-term carbon transitions
  Michael Akin (Germany), DF Sprinz, D Fuchs
- Policy implications from the Japan-UK Low-Carbon Society (LCS) modelling project
  Tim J Foxton (UK), N Strachan, J Fujino
Tuesday, 10 March 2009

15:00 - 17:45 P50

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

16:50 - 17:00 P50.11
Mitigating greenhouse gas emissions through local land use planning
*Zhenghong Tang* (USA), *C Hussey*

17:00 - 17:10 P50.12
The use of Border Tax Adjustment as a tool to reduce greenhouse gas emissions
*Helen Tung* (UK)

17:10 - 17:20 P50.13
Governance of adaptation: proposing a process model for managing long-term climate policies
*Kim van Nieuwaal* (The Netherlands), *P Driessen, T Spit, K Termeer*

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15:00 - 15:30 P52

**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*

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15:00 - 16:15 P53

**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*

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15:00 - 16:15 P56

**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)

15:30 - 15:40 P56.04
Towards a convention for persons displaced by climate change: key issues and preliminary responses
*David Hodgkinson* (Australia), *T Burton, A Coram, S Dawkins, L Young*
Tuesday, 10 March 2009
15:00 - 16:15 P56
Session 56 - Human Migration - Geopolitical Conflicts - Climate Security (cont.)

15:40 - 15:50 P56.05 Climate change and forced migration Bangladesh
Haakon Lein (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 Medeitos, MC Santiago-Husse, w Duleba, M Babinsky, SMCL Glioia

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)

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
Wednesday, 11 March 2009

10:45 -14:45 P07  Hall C

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

10:45 - 14:35 P14  Hall C

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 McNeall, 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 Geetha

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
Sharmin Neelormi (Bangladesh), N adri, AU Ahmed

12:45 - 12:55 P14.13 Exploring climate change adaptation strategies in north Australian communities using scenario planning
Javier Puig (Australia), C Huchery, C Petheram, 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)

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 Wählen, H Petersen

Carsten Ambelas Skjøth (Denmark), H Petersen, J Sommer, M Smith
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

10:45 - 17:45 P29  Hall C

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 Ntabe, 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
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10:45 - 17:45 P29

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

Hall C

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 Eisheid, 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 Asker 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)
Romaric 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 cimate cange - 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
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10:45 - 17:45 P29  Hall C

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_

10:45 - 13:15 P30  Hall C

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 Auwinnen, 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_
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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

10:45 - 14:15 P31
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 Valentí, 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 carbon dynamics in islands of the Okavango Delta, Botswana
Kelebogile Mfundisi (Botswana)

12:45 - 12:55 P31.12 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 P31.13 Is a recent increase of the Greenland fish fauna caused by climate change?
Peter Rask Møller (Denmark)

13:05 - 13:15 P31.14 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 Styrishev, M Hansen, B Jenssen, B Halling-Sørensen

13:15 - 13:25 P31.15 Biodiversity science into climate change policy – a perspective from the UK
Michael Usher (UK), D Procter

13:25 - 13:35 P31.16 Prediction and mitigation of undesirable change in semi-natural grassland due to extreme droughts and hay management
Andreas Stampfl (Switzerland), M Zeiter

13:35 - 13:45 P31.17 Expanding the evaluation of species distribution models to guide their assessment of climate impacts
Alexandra D Syphard (USA), J Franklin
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10:45 - 14:15 P31  Hall C
Session 31 - Biodiversity: Enhancement of Resilience or Facilitating Transformation? (cont.)

13:45 - 13:55  P31.18  Wetlands under a changing climate: live or let die?
   Rudy van Diggelen (Belgium), A Grootjans, W Kotowski

13:55 - 14:05  P31.19  Challenges in global biodiversity conservation in the in the era of climate change
   Yoseph Assefa Woldeamanuel (Ethiopia)

10:45 - 14:15 P33  Hall C
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, J 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 Lampaign (Colombia)

12:45 - 12:55  P33.13  Flood risk and land occupation in Dakar outskirts. Does climate variability reveal
   inconsistent urban management?
   Cheikh Mbou (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

   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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10:45 - 14:15 P33  Hall C
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 Schlinzen (Germany), F Ament, B Bechtel, J Böhner, A Eschenbach, B Fock, P Hoffmann, P Kirschner, B Leitl, J Oßenbrügge, G Rosenhagen, M Schatzmann

10:45 - 13:15 P34  Hall C
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-Sahelian 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 Pariat (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 Furlanello
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 Haggar, 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 Lubchenko

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  Nigeria coastal cities already living with climate change
Adesina Fatai (Nigeria)

11:35 - 11:45  P35.06  Impacts of climate variability and change on marine plankton communities in tropical coastal ecosystems, South India
Nallamuthu Godhantaraman (India)

11:45 - 11:55  P35.07  Climate factors that lead to fish kills in Australian coastal acid sulfate soil catchments
Lance Heath (Australia)

11:55 - 12:05  P35.08  The role of coastal management in modifying coastal carbon and nitrogen cycles
Timothy Jickells (UK), J Andrews

12:05 - 12:15  P35.09  Vulnerability of coastal ecosystems in Northeast of Morocco to shoreline erosion and sea level rise
Abdellatif Khattabi (Morocco), FM Bellaghmouch

12:15 - 12:25  P35.10  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

12:25 - 12:35  P35.11  Climate change impacts to the coastal zone and adaptation strategy in Korea
Suk Hui Lee (South Korea), DK Kang, IK Bang, KS 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 Lynghjær (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 Moriando (Italy), M Bindi, G Trombi

11:15 - 11:25  P37.24  Impacts of climate change and climate variability on agriculture in the Midwest US
Eugene Takte (USA)

11:25 - 11:35  P37.25  Increasing biodiversity in agroecosystems decreases climate change problems
Helton Nonato de Souza (Brazil), EMG Duarte, MI Aguilar, 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 Angelì, E Mamoci, V Simeone, Y Elad

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
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10:45 -14:30 P37  Hall C
Session 37 - Adapting Future Agricultural Production to Climate Change Part II (cont.)

12:05 - 12:15 P37.29 A simulation approach to investigate options for mitigation and crop adaptation 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 Röttter (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 Benefits of organic agriculture as a climate change adaptation and mitigation strategy in developing countries
  Adrian Muller (Switzerland)

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 Velthuizen, 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

  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 Skejváig, 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 Semeradova, 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

10:45 -13:15 P38  Hall C
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

11:25 - 11:35 P38.05 Responses in growth and survival for European Sessile oak provenances to changes in climate as studied in an international field trial series
  Jon Keohlet Hansen (Denmark), A Ducouso, J Hubert, A König, EP Cundall, JD Deans, V Schneck, LB Pedersen
Session 38 - Adapting Forests to Climate Change (cont.)

11:35 - 11:45 P38.06 Protecting the protectors: lessons for adaptation strategies of mangrove forests from Bangladesh
Saiful Islam Khan (UK)

11:45 - 11:55 P38.07 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 P38.08 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 P38.09 Climate change – improved conditions for native and introduced insect pests on trees
Hans Peter Ravn (Denmark)

10:45 - 13:45 P41  Hall C

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 Nanyinya, 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, O Mertz, TB Bruun, J Agergaard, D Yee, M Mataki

12:25 - 12:35 P41.25 access2innovation - a strategy yo fight climate change?
Jacob Ravn (Denmark), A Remmen
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10:45 - 13:45 P41 Hall C

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 Diof, D Dabi, JØ Nielsen, D Diallo, C Mbow, A Ka, A Maiga

10:45 - 11:30 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 Recabarren

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 Hall C

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

11:45 - 11:55  P57.07  Motivation to adapt to climate change
**Kristina Blennow** (Sweden)

11:55 - 12:05  P57.08  Climate change with Chinese characteristics: a study of discourse
**Christian Ellermann, M Mayer** (Germany)

12:05 - 12:15  P57.09  Managing our changing world heritage: convergence in The Philippine rice terraces
**Rachel Guimbatan** (Philippines)

12:15 - 12:25  P57.10  Topographical mementos: social responses to a changing climate in the Arctic
**Kirsten Hastrup** (Denmark)

12:25 - 12:35  P57.11  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  P57.12  Angry spirits of the land: cultural and ethical elements of climate change adaptation among Mongolian pastoralist nomads
**Andrei Marin** (Norway)

12:45 - 12:55  P57.13  Adaptation of coastal communities in the cross-pressure of tourism and environmental change in Zanzibar, Tanzania
**Johanna Mustelin** (Finland)

12:55 - 13:05  P57.14  Inter-ethnic relations and adaptation to climate change in a small West African village
**Jonas Østergaard Nielsen** (Denmark)

13:05 - 13:15  P57.15  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  P57.16  Attitudes and perceptions underpinning inaction and non-preparedness in a hurricane zone
**Emma Tompkins** (UK), **L-A Hurlston, W Poortinga**

13:25 - 13:35  P57.17  Explaining public perception of climate change and mitigation behaviour in Switzerland within a structural equation modelling approach
**Aysel Tutkun** (Switzerland)

13:35 - 13:45  P57.18  The nature view held by environmentalists. Attitudes in the Norwegian environmental establishment
**Morten Tønnessen** (Estonia)

13:45 - 13:55  P57.19  Auroville: the city the earth needs - ‘a successful case of changing the climate for holistic sustainable development’
**Lalit Bhati** (India)

13:55 - 14:05  P57.20  The response to climate change from the Baha’i community
**Arthur Lyon Dahl** (Switzerland)

14:05 - 14:15  P57.21  Climate change beyond diplomacy: thinking outside the box response of the world faith community
**Rabbi Warren Stone** (USA)

14:15 - 14:25  P57.22  What type of values does an adequate climate change policy require?
**Marius Christen** (Switzerland)

14:25 - 14:35  P57.23  The cultural imagination of climate change: disaster images of the human
**Isak Winkel Holm** (Denmark)

14:35 - 14:45  P57.24  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  P57.25  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  P57.26  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  P57.27  Heidegger, technology, and climate change
**Ruth Irwin** (New Zealand)
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10:45 - 16:15 P57  Hall C

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

15:15 - 15:25 P57.28 Evaluating and planning sustainable urban development: the use of future scenarios between facts and values
Nicola Tollin (Spain), X Alvarez del Castillo

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 network theory 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  Hall C

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 cimate change mitigation polices in the Gongo 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 Kuhlcke, W Kuindersma, M Mañez, H Reinert, S van Bommel

12:15 - 12:25 P58.10 Carbon dioxide abatement potential from electricity use in Hungarian tertiary buildings
Diana Ůrge-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)

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 Virdis

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)
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<tr>
<th>Time</th>
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<tr>
<td>11:00 - 11:10</td>
<td>Impact of present warming on Greenland Ice Sheet model</td>
<td>Gudfinna Adalgeirsdottir (Denmark), M Stendel, JH Christensen, E Bueler, M Drews</td>
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<tr>
<td>11:10 - 11:20</td>
<td>Supraglacial lake volumes on the Jakobshavn isbrae</td>
<td>John Adler (USA), K Steffen</td>
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<td>11:30 - 11:40</td>
<td>Nonstationarity in cryosphere-atmosphere coupling and its relationship to variability and change of North Atlantic Oscillation</td>
<td>Roxana Bojariea (Romania), R Garcia Herrera, M Caian, T Zhang, O Frauenfeld</td>
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<td>11:40 - 11:50</td>
<td>Modelling the spatial distribution of moulins near Jakobshavn, Greenland</td>
<td>William Colgan (USA), K Steffen</td>
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<td>11:50 - 12:00</td>
<td>Significant Holocene thinning of the Greenland ice sheet</td>
<td>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</td>
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<tr>
<td>12:00 - 12:10</td>
<td>Climatic control on glacier mass balance and runoff, Mittivakkat Glacier catchment, Ammassalik Island, SE Greenland</td>
<td>Bent Hashol (Denmark), SH Mernild, NT Knudsen</td>
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<td>12:10 - 12:20</td>
<td>Analysis delta-13C in CO2 at Copenhagen University: results towards a first CO2 record from Greenland</td>
<td>Theo Manuel Jenk (Denmark), T Blunier, D Dahl-Jensen</td>
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<td>12:20 - 12:30</td>
<td>Recent global sea level acceleration started over 200 years ago?</td>
<td>Svetlana Jevrejeva (UK), J Moore, A Grinsted, P Woodworth</td>
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<td>12:30 - 12:40</td>
<td>Constraining the southern Greenland ice sheet since the last glacial maximum until the present from sea-level observations and glacial-isostatic adjustment models</td>
<td>Charlotte Jönsson Sparrenbom (Sweden), K Lambeck, D Fabel, K Fleming, A Purcell</td>
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<td>12:40 - 12:50</td>
<td>Constrained future climate change using ice core data</td>
<td>Jean Jouzel (France), V Masson-Delmotte, D Raynaud</td>
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<td>12:50 - 13:00</td>
<td>Western-Siberian peatlands as indicator and regulator of climatic changes</td>
<td>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</td>
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<td>13:00 - 13:10</td>
<td>Ice flow and mass balance along the ridge of the Greenland ice sheet between NGRIP and NEEM</td>
<td>Lars Berg Larsen (Denmark), CS Hvidberg</td>
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<td>13:10 - 13:20</td>
<td>Analysis of long-term hydro-meteorological data of Baker River Basin and the mass balance of NEF glacier, Patagonia</td>
<td>Paulina Lopez (Chile), G Casassa</td>
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<td>13:20 - 13:30</td>
<td>Impact of warm events during cold seasons on the hydrological response of a polar glacier system</td>
<td>Christelle Martin (France), M Griselin, E Bernard, E Delangle, D Laffly, J-M Friedt</td>
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<td>13:30 - 13:40</td>
<td>Sediment plumes in Sondre Stromfjord, Greenland as a proxy for run-off from the Greenland ice sheet</td>
<td>Daniel McGrath (USA), K Steffen, I Overeem</td>
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<td>13:50 - 14:00</td>
<td>Increased Greenland melt extent 1995–2007</td>
<td>Sebastian H Mernild (USA)</td>
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<td>14:00 - 14:10</td>
<td>Melt water influence on englacial temperature distribution</td>
<td>Thomas Phillips (USA), H Rajaram, K Steffen</td>
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<td>14:10 - 14:20</td>
<td>Statistical analysis of global sea level using nonstationary methods: New prospects for projection?</td>
<td>Torben Schmith (Denmark), S Johansen, P Thejill</td>
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11:00 - 14:45 P01  Hall C
Session 01 - Cryosphere, Instabilities, Sea Level Rise (cont.)

14:20 - 14:30 P01.21 Nature and history of Cenozoic Polar Ice covers: the case of the Greenland ice sheet
*Jørn Thiede* (Denmark), R Spielhagen

14:30 - 14:40 P01.22 Jakobshavn Isbrae: an example of large-scale change in ice dynamics in response to recent warming
*Martin Truffer* (USA), M Fahnstock

11:00 - 12:30 P02  Hall C
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

11:00 - 13:15 P03  Hall C
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)
Thursday, 12 March 2009

11:00 - 12:30 P02

**Session 02 - Global/Regional Climate State in 2030 (cont.)**  
**Hall C**

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*

11:00 - 15:10 P04

**Session 04 - Vulnerability in Carbon Sinks**  
**Hall C**

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 Hillgsøe*, *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 Gourdji* (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 Hillgsøe* (Denmark), *K Richardson*, *J Bendtsen*, *M Moltke Lynggaard*, *LL Sorensen*

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 Mieghem*

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  

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 Jeannesson*, *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*
Thursday, 12 March 2009

11:00 - 15:10 P04

Session 04 - Vulnerability in Carbon Sinks (cont.)

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

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 Andreason, MB Selsted, KS Larsen, A Ibrom

11:00 - 13:00 P05

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 Möller 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
Thursday, 12 March 2009
11:00 - 13:00 P05
Session 05 - Developing a Spectrum of Models to Describe the Earth System (cont.)

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

11:00 - 12:00 P06
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 Saponov, 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 - 15:15 P07
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
Øjvind 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 Duski, 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 Gasparian

12:50 - 13:00 P07.36 Perception & understanding of global climatic changes - a case study with the vulnerable communities in Sri Lanka
Prabath 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)

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 Rahman (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 Clark, 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 Suguiio

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 Schneider (Germany), G Leduc, W Park

14:20 - 14:30 P07.45 Pseudomorph after ikaite – called Glendoniite 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 Th Global maps of reconstructed d13C values of terrestrial biomass from 30ka BP to present
F Alayne Street-Perrott (UK), TJ Daily, R Fraser

14:40 - 14:50 P07.47 Impacts of multidecadal climate oscillations on marine ecosystems and fish stocks
Svein Sundby (Norway)

14:50 - 15:00 P07.48 Comparing interglacial climates: a case study of Greenland ice core impurities
Anders Svensson (Denmark), M Bigler, E Kettner, M Nielsen, D Dahl-Jensen

15:00 - 15:10 P07.49 The Thule culture in relation to changes in climate and environment in Northeast Greenland, 1400-1850 AD
Mikkell Sørensen (Denmark), JT Pedersen, AB Gottfredsen, B Grønnow, BH Jakobsen, HC Gulløv, A Kroon, JF Jensen, M Meldgaard

15:10 - 15:20 P07.50 How do we learn about climate sensitivity in the future?
Brian O’Neill (Austria), K Tanaka

15:20 - 15:30 P07.51 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

15:30 - 15:40 P07.52 Land use and climate change, historic simulations with EC-EARTH
Michiel van der Molen (The Netherlands), B van den Hurk, W Hazeleger

15:40 - 15:50 P07.53 Stratigraphical dating of ice cores using high resolution profiles
Mai Winstrup (Denmark), A Svensson
Thursday, 12 March 2009
11:00 - 13:15 P09
Hall C
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
Rebecca F Akale, (Cameroon), C Lambi, VF Romaim

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 Barthelemy, 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 Batkhishig
Thursday, 12 March 2009

11:00 - 13:15 P09  Hall C
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 Ghersi (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  Hall C
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 Goldenberg (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 Lingwe (Nigeria), JE Otu, JK Ukwayi

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 geopoletics
Olivier Ragueneau (France)

12:50 - 13:00  P11.12  Sustainable underdevelopment or technological autonomy?
Petterson Molina Vale (Brazil)

13:00 - 13:10  P11.13  GHG historical emissions and Equity
Maria Silvia Muylaert de Araujo (Brazil)
Thursday, 12 March 2009
11:00 - 14:30 P11  Hall C

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

  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  Hall C

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  Hall C

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, A Bruner, O Coroza, RJ Cruz, F Godoy, D Hole, OML Kouamé, A Rasolohery, M Steininger

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 in China Proposal on the key factors research and demonstration project
  Genxing Pan (PR China)
Thursday, 12 March 2009
11:00 - 12:15 P15

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*

11:00 - 14:45 P17

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 Shin* (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 Dioxide 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 Fischedick*

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 Fischedick*, *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 Fischedick*, *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
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11:00 - 14:45 P17  Hall C

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  Hall C

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 greenhouse 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 Mukibi (Uganda), A Nabudwana

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 Kloverpris

12:30 - 12:40 P20.09 Massively reducing CO2 emission by innovative computing education

Reiner Hartensen (Germany)

11:00 - 14:30 P24  Hall C

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 Munkholm, 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)


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

Kristina 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
Thursday, 12 March 2009

11:00 - 14:30 P24  Hall C

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 feasibilty
Xiaoke Wang (PR China), F Lu, B Han, Z Ouyang

Meltem Yilmaz (Turkey)

3:20 - 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 assessement of livestock and grasslands to climate change and extreme events (VALIDATE project)

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

11:00 - 13:00 P28  Hall C

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
Tajjana Dovbyshsveha (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
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 Lakhsumanan

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

11:00 - 11:10 P35.12 Future storm surge risk in Denmark
Kristine S Madsen (Denmark), I Kliem

Bishawjit Mallick (Germany), J Vogt

11:20 - 11:30 P35.14 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 P35.15 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 P35.16 Climate change adaptation: Bangladesh perspective
Chowdhury Mohammed Farouque (Bangladesh)
Thursday, 12 March 2009
11:00 - 13:30 P35

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

11:50 - 12:00  P35.17  Climate changes – Impacts on coastal Mudbank formation and adaptations of coastal fisheries
  *Joseph Paimpillil (India)*

12:00 - 12:10  P35.18  National law & climate change adaptation: a comparative analysis with implications for response to sea level rise
  *Margaret Pelosi (USA), M Caldwell, M Orbach*

12:10 - 12:20  P35.19  West African weather systems in the development of tropical cyclones
  *Tairu Salami (Nigeria)*

12:20 - 12:30  P35.20  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  P35.21  Vulnerability of Eastern Quebec coastal communities to climate change
  *Jean-Pierre Savard (Canada), F Morneau*

12:40 - 12:50  P35.22  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  P35.23  Depletion of natural resources at Goa, India – a case study
  *Shalini Sharma (India)*

13:00 - 13:10  P35.24  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  P35.25  Climate change: threat or opportunity for Belgian sea fisheries?
  *Els Vanderperren (Belgium), R De Sutter, H Polet*