

Draft programme Thursday September 13, 2007

SESSION 1

Welcome and Introductory Addresses

Plenary Opening

Minister J. Cramer, The Netherlands (invited)

Dutch Ministry of Housing, Spatial Planning and Environment

Chair: *Prof. Leen Hordijk*, Director IIASA, Austria;

Chair CcSP International

Scientific Advisory Council

Prof. Pieter Bouw, Former CEO, KLM and Swiss Airlines; Chair of the CcSP Social Advisory Council

Dr. Chris Kalden, Director, National Forest Service of The Netherlands; Chair, Societal Evaluation Committee of the CcSP Programme

Role of Land in Understanding and Responding to Climate

Prof. Roger A. Pielke Sr., Colorado State University, Boulder, USA

SESSION 2

First Round of Parallel Workshops

Three consecutive rounds of parallel thematic workshops where different individual projects within CcSP programme will be presented

a. Climate Scenarios: Climate Processes

- Monitoring and Profiling with Cabauw Experimental Site for Atmospheric Research
 - Representation of Soil Moisture and Root Water Uptake in Climate Models
 - The Regional Climate Impacts of Aerosols
- ##### b. Adaptation and Mitigation in Rural Areas: Bio-Energy and Agriculture
- Renewable Energy and Spatial Planning
 - Impacts of Climate Change on Agriculture for Different Marker Scenarios

c. Adaptation to Climate Change: Water Management

- Adaptation to Extreme Events in Trans-boundary River Basins
- Financial Arrangements for Disaster Losses under Climate Change
- Room for Safety (new approaches to flood risk management under climate change)

d. Integration: Participatory Methods

- PRObing a method to facilitate the Interactive Linking of Expert Knowledge to Stakeholder Assessment
- The Dutch Institutional Framework and Governance of Adaptation Strategies

e. Communication: Data Portal and Climate Education Projects

- A Virtual Data Portal for CcSP Projects
- PhD and MSc Climate Education (inclusive Summer School Climate & Hydrological Cycle)
- Secondary School Climate Education

Second Round of Parallel Workshops

a. Climate Scenarios: Processes and Tailoring

- North Atlantic Ocean Monitoring and Modelling
- Modelling & Reconstructing Precipitation & Flood Frequency in the Meuse Catchment during Holocene
- Tailoring Climate Information for Impact Assessment

b. Land Use and GHG balance: Measuring and Monitoring Greenhouse Gases

- Integrated Observation and Modelling of Greenhouse Gas Budgets at the Ecosystem Level
- Integrated Observation and Modelling of Greenhouse Gas Budgets at the National Scale
- Soil Carbon Dynamics and Variability at the Landscape and its Relation to National Emissions Data Base

c. Adaptation: Nature and Biodiversity Conservation

- Biodiversity in a Changing Environment: Predicting Spatio-Temporal Dynamics of Vegetation
- Strategies for Optimizing the Nature Conservation Potential in the Dutch Ecological Network and the Surrounding Multifunctional Landscape under Climate Change
- Adaptation in the Netherlands Continental Shelf: marine environment, fisheries and biodiversity under Climate Change

d. Integration: Integrated Assessment

- Integral Analysis of Mitigation Options within Sectors and Regions
- Land Use and Climate Change (LANDS)

e. Communication: reaching the Stakeholders

- Nature's Calendar
- Deltas in Times of Climate Change
- Thematic Debates and Dialogues (climate and built environment, climate and nature)
- Climate Proofing Atlas

Third Round of Parallel Workshops

a. Climate Scenarios: Model Studies

- Remote Influences on European Climate
- Climate Scenarios of Wind and Precipitation for The Netherlands with a High Resolution Regional Climate Model
- Time Series Information

b. Land Use & Mitigation: Peatlands, Climate and Planning

- Optimization of the Spatial Arrangements of Dutch Fen Meadows for Multifunctional Use and Climate Services
- Spatial Decision Support for Management of Dutch Fen Meadows

c. Adaptation: Sectoral Aspects and Regional Approaches in "HotSpots"

- Transport, Climate Change and Spatial Planning
- Netherlands National Adaptation Strategy: Options and Related Costs
- HotSpot ZuidPlaspolder (regional adaptation strategy)
- HotSpot Tilburg (adaptation strategy and climate proofing at scale of a medium-size municipality)

d. Integration: Socio-Economic Research

- Cost Benefit Analysis of Adaptation and Mitigation Strategies
- Socio-Economic Scenarios for Climate Change Assessments

e. Communication: Reaching a Broader Spectrum of Professional and Policy making Stakeholders

- Platform Communication on Climate Change
- CcSP Programme Communication

Closure

Registration, conference location and hotel reservation

The conference will be held in the World Forum Convention Center, The Hague. A block of rooms has been reserved in Dorint Novotel, The Hague. Further information on registration and hotel reservation can be found on our website. There is no registration fee.

Conference language

The working language of the conference is English, which also will be used for all the presentations and printed materials.

Website

For up-to-date information on the conference programme, please visit our website: www.climatechangesspatialplanning.nl
www.klimaatvoorraimte.nl

For further information you can contact:

Programme Office Climate changes Spatial Planning
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International Conference Climate *changes* Spatial Planning (CcSP)

September
12-13, 2007

Climate Scenarios

Impacts and
Adaptation

Land Use, Climate
and Mitigation

Economics of
Responding to
Climate Change

Investing in
Climate Proofing

Communicating
Climate Change

World Forum Convention Center, The Hague, The Netherlands
www.climatechangesspatialplanning.nl

Climate changes Spatial Planning

Climate change is a reality. The latest report of the Intergovernmental Panel on Climate Change has provided a mount of new and convincing evidence that human influence on climate is undeniable and should be regarded as a factor of major importance.

We recognize remaining uncertainties and gaps in our understanding of the functioning of the climate system – now and in the future. But even then, the basic understanding about the influence of human activities such as fossil fuel combustion and land use changes on our climate is well established and can hardly be disputed. Climate change does not only mean a long term gradual change of global mean temperature or precipitation fields. In fact climate change seems to be occurring faster than climate researchers expected some years ago. In response to these developments, the climate science community and policy makers are currently converging at a concept of combining mitigation efforts with climate adaptation measures and strategies.

In 2004, a unique and ambitious research programme started in The Netherlands, called “Climate *changes* Spatial Planning”. A budget of 80 million Euro has been made available, jointly by government and stakeholders on a 50/50 basis. The programme is implemented by a consortium of internationally recognized Netherlands scientific institutions, together with more than 50 public and private stakeholders. It includes basic research to improve climate models and climate scenarios, as well as strategies for adaptation and land use related mitigation. The five themes of the programme are: climate scenarios; (land use related) mitigation; adaptation; integration and communication. Many disciplines cooperate in multidisciplinary projects, as well as in disciplinary, integrative projects.

CcSP introduced the concept of “climate proofing”¹ and it has successfully triggered a nation-wide debate on climate adaptation. This debate has led

to the development of a national wide policy plan on climate adaptation and additional funding for a more design oriented research programme on adaptation and planning, to start in 2008.

Worldwide, the climate change debate has accelerated over the last 12 months, after the release of the latest IPCC report, and by attention drawn to climate change by the activities of Al Gore, Stern and others. In this setting we may conclude that CcSP is very timely, as we are ready to present our first empirical results at this international conference. The Research Programme has created many bridges between a range of research institutes and a wide variety of stakeholders.

The two day conference will be held on September 12 - 13, 2007 in The Hague, The Netherlands. This conference will contribute to the current European and international science and policy debate on adaptation to climate change and will draw the intermediate balance sheet of the Programme.

The conference will start on September 12 with plenary presentations and discussions by leading international climate experts, policy makers, principal scientists from the Programme and by selected representatives of the stakeholders.

On the second day of the conference, project leaders and project consortia will present their interim results. An extended poster session will be organized during both days, where specific issues of the projects will further be highlighted, including the work in progress of more than 50 PhD students and a range of communication projects. A mini-exposition of climate proofing solutions and technologies is also under preparation

All sessions on both conference days are fully open for attendance by all interested participants.

Draft programme **Wednesday September 12, 2007**

SESSION 1 **International** **Embedding**

Chair: *Prof.dr. Pier Vellinga*, Chair of the board Foundation CcSP, Wageningen University and Research Centre, Vrije Universiteit, NL

SESSION 2 **Dutch Research and** **Policy Dimension**

Chair: *Prof.dr. Wim van Vierssen*, vice chair of the board Foundation CcSP, Director KIWA Research, NL

SESSION 3 **State of the Art in** **Climate Research and** **Policy Domain**

Chair: *Mr. Anton Beljaars*, European Centre for Medium Range Weather Forecast, Reading, UK

Welcome and Opening Address by Representative of the Dutch Cabinet

EU Climate Research Agenda and its Relevance for Adaptation Policies
Dr. Elisabeth Lijatou, Belgium, European Commission, Directorate General Research

Climate Challenge: IPCC 4th Assessment Report and Beyond

Dr. Rajenda K. Pachauri, India, Chair Intergovernmental Panel on Climate Change
Prof.dr. Guy Brasseur, USA, National Centre for Atmospheric Research, NCAR, Boulder, Lead Author IPCC Assessment Report 4

Climate and Sustainable Development

Dr. Carlos Nobre, Brazil, Chair Scientific Committee of the International Biosphere -Geosphere Programme (IGBP)

Climate changes Spatial Planning: CcSP Research Highlights and Key Results

Prof.dr. Pavel Kabat, Wageningen University and Research Centre, CcSP Science Director and Chair of the Programme Council, NL

Netherlands and European Climate Adaptation Strategies and Policies

Mr. Pieter Bloemen, Dutch Ministry of Housing, Spatial Planning and Environment, NL
Dr. Fritz Holzwarth, Federal Ministry for the Environment, Nature and Nuclear Safety, Germany

Poster / Audio-Visual Session on Communicating Climate Change

Climate Scenarios

Global and European Perspective: General Progress and Remaining Uncertainties

Dr. Daniela Jacob, Max Planck Institute for Meteorology, Germany

Regional Perspective: Regional Climate Scenarios and Scenario Tailoring

Prof.dr. Bart van den Hurk, Royal Netherlands Meteorological Institute (KNMI), NL

Perspective from Stakeholders: What is needed?

(Dutch Water Board and Financial / Insurance Sector)

Adaptation to Climate Change

Development of an Interdisciplinary Framework to Support Adaptation Strategies

Dr. Suraje Dessai, Tyndall Centre for Climate Change Research, UK

Climate Adaptation: Cross-Sectoral Approaches in Relation to Land Use and Spatial Planning

Dr. Jeroen Aerts, IVM, Vrije Universiteit, NL

Climate Proofing Californian Water Management: A Delta Plan

Mr. Lester A. Snow, California Department of Water Resources, USA

Perspective from Stakeholders about Climate Adaptation

(Regional Governments / Province; Schiphol Group Authority; Rotterdam Harbor Authority)

The Role of Land Use in Mitigation Strategies

European Perspective

Mr. André Jol, European Environmental Agency, Copenhagen, Denmark

Approaches towards integrated Assessment & Monitoring of Land related GHG Emissions

Dr. Ronald Hutjes, Wageningen University and Research Centre, NL

Perspective from Stakeholders

(Nature Management Authorities, Farmers Associations)

Economics of Adapting to Climate Change

The Economic costs Avoiding Climate Change

Dr. Terry Barker, Cambridge University and Cambridge Econometrics Ltd, UK

The Cost and the Benefits of Climate Adaptation Measures and Policies

Prof.dr. Ekko van Ierland, Wageningen University and Research Centre, NL

Perspective from Stakeholders

(Netherlands Bureau for Economic Policy Analysis-CPB, Financial Sector)

Closing Lecture

Integrated Approaches to Climate Policies: Optimal Combinations of Mitigation and Adaptation Measures?

Mr. Tom Kram and Prof. Klaas van Egmond, Netherlands Environmental Assessment Agency, NL

¹ Kabat P, P. Vellinga, W. Van Vierssen, J. Veraart and J. Aerts, 2005. Climate proofing of the Netherlands. Nature 438: 283-284.