







European Conference on Biodiversity and Climate Change

- Science, Practice & Policy

12-13 April 2011



at the
Center of Advanced European Studies and Research (CAESAR)
Bonn, Germany

Organised by the German Federal Agency for Nature Conservation (BfN) with the support of the University of Greifswald and in collaboration with the European Network of Heads of Nature Conservation Agencies (ENCA)

Scope

Biodiversity loss and climate change are among the most pressing challenges of our times, and are strongly interconnected. Not only will climate change directly affect biodiversity but mitigation and adaptation measures taken by society could also have significant effects, both positive and negative, on biodiversity.

Conservation strategies will need to be adapted to cope with a changing climate; there is a need to explore how this should be done, and share experiences of putting adaptation principles into practice. There is also growing awareness that addressing biodiversity loss and climate change in an integrated manner can have a range of multiple benefits for society, including synergies with sustainable development goals. However, considerable uncertainties remain surrounding the two-way interactions of biodiversity and climate change and good practice examples of ecosystem-based approaches to mitigation and adaptation are still rare.

Against this background, the conference sets out to meet a growing demand for sharing knowledge and experiences in the field of biodiversity and climate change in Europe. Taking a transdisciplinary perspective, the aim of the conference is to bring scientists, conservation practitioners and policymakers together in order to improve both the integration of research outputs into practical conservation projects, and the identification of further research needs.

Programme

Tuesday, 12.04.2011

08.00 Registration opens

Opening

- 09.00 Welcome address and introduction *Prof. Dr. Beate Jessel & Dr. Horst Korn (BfN)*
- 09.20 Helping Europe's wildlife and ecosystems adapt to a changing climate: some important research questions and the work of the ENCA network Dr. Nicholas Macgregor (Natural England / ENCA)

Keynote presentation

09.40 Biodiversity and climate change: an overview of EU policies and some challenges and opportunities

Karin Zaunberger (European Commission)

Session I: Impacts of climate change on biodiversity

10.10 Assessing the fate of montane biodiversity in Europe under climate change: a novel approach using species distribution modelling and population genetics

Dr. Carsten Nowak (Biodiversity and Climate Research Centre)

Coffee / Tea (10.40 – 11.15)

11.15 Long term research of the Dogger Bank Epibenthos (North Sea): loss of biodiversity and changes in climate
Moritz Sonnewald (Biodiversity and Climate Research Centre)

- 11.45 Biodiversity in the (sub)arctic under different climate change scenarios Dr. Anouschka Hof (Umeå University)
- 12.15 The Global Biodiversity Information Facility: Biodiversity data, data standards, access and tools to forecast climate change impacts on biodiversity

Dr. Nick King (Global Biodiversity Information Facility)

Buffet lunch (12.45 - 14.00)

Session II: Adapting nature conservation policies, strategies and measures to climate change

- 14.00 Ecological networks an adaptation strategy for climate change? *Prof. Michael Reich (University of Hannover)*
- 14:30 Climate change and the Natura 2000 network: assessments of species and habitat vulnerability Mike Harley (AEA)
- 15:00 Adaptive management of climate-induced changes of habitat diversity in protected areas

Dr. Marco Neubert & Sven Rannow (Leibniz Institute of Ecological and Regional Development)

Coffee / Tea (15.30 - 16.00)

- 16:00 Forest conservation under a changing climate: adjusting concepts and policies in Germany

 Miriam Milad (University of Freiburg Institute for Landscape)
 - Mirjam Milad (University of Freiburg, Institute for Landscape Management) & Sabine Storch (University of Freiburg, Institute for Forest and Environmental Policy)
- 16:30 Climate change impacts on insects and their mitigation (CLIMIT project)

Prof. Josef Settele (Helmholtz Centre for Environmental Research)

- 17:00 Nature-based adaptation or adaptation-based nature?

 Dr. Jan Plesnik (Agency for Nature Conservation and Landscape Protection of the Czech Republic)
- 17:30 Rethinking what is a 'native' and 'non-native' species as ranges shift as a result of climate change

 PD Dr. Gian-Reto Walther (Swiss Federal Office for the Environment)
- 18:00 Poster session

Conference Buffet / Reception (18.30 – 20.00)

Special session on forecasting climate change impacts

- 20:00 Forecasting bird population changes in response to global warming using high resolution models: lessons learned from Germany

 Dr. Thomas Gottschalk (Justus Liebig University Giessen / DDA)
- 20:30 An introduction to using the GBIF informatics infrastructure Samy Gaiji (Global Biodiversity Information Facility)

Wednesday, 13.04.2011

Session III: Integrated and ecosystem-based approaches to climate change adaptation and mitigation

- 09.00 Possibilities and limitations for biodiversity conservation in a climate change adaptation framework under the UNFCCC

 Eric Fee (German Federal Environment Agency)
- 09.30 ICI The German International Climate Initiative, an innovative financing mechanism for protecting biodiversity and climate

 Kerstin Lehmann (BfN) & Dr. Rudolf Specht (German Federal Ministry for the Environment, Nature Conservation and Nuclear Safety)
- 10.10 Greening REDD+: challenges and opportunities for forest biodiversity conservation
 Sabine Reinecke & Steffen Entenmann (University of Freiburg)
- 10.40 Carbon, biodiversity and ecosystem services: using maps to explore co-benefits from climate change mitigation
 Dr. Monika Bertzky (UNEP-WCMC)

Coffee / Tea (11.00 - 11.30)

- 11.30 The West European Climate Corridor: an adaptation strategy for climate adaptation in the Rhine basin
 Bram Vreugdenhil (Department of Environment and Land-use, Province of Gelderland, the Netherlands)
- 12.00 Achieving climate mitigation and adaptation without compromising nature: experiences from the CIPRA projects cc.alps and ecological networks

Aurelia Ullrich (CIPRA International)

Buffet lunch (12.30 - 13.30)

Session IV: Socio-economic aspects and integration with other sectors

- 13.30 Valuation of ecosystem services in Mediterranean forests Dr. Elena Ojea (Basque Centre for Climate Change)
- 14.00 Vulnerability of Austrian mire habitats under climate change: implications for nature conservation and climate change mitigation Dr. Franz Essl (Environment Agency Austria)
- 14.30 Paludiculture for biodiversity and climate: economics of rewetted peatlands
 Achim Schäfer (University of Greifswald)
- 15.00 Promoting sustainability in bioenergy use to avoid negative impacts on biodiversity
 Jan Seven (German Federal Environment Agency)

Coffee / Tea (15.30 – 16.00)

Panel Discussion

16.00 Discussion: priorities for research and conservation action and opportunities for enhanced cooperation

Panel of researchers, conservation practitioners and policy makers (Moderation: Prof. Dr. Beate Jessel, BfN)

17.00 Closing of Conference