

*UNECE Convention on Long-range Transboundary Air Pollution*  
**Working Group on Effects**

**International Cooperative Programme on Modelling  
and Mapping (ICP M&M)  
of Critical Levels & Loads and Air Pollution Effects,  
Risks and Trends**

**Agenda**

11 April 2012

**22<sup>ND</sup> CCE WORKSHOP AND 28<sup>TH</sup> TASK FORCE  
MEETING**

**on the evaluation of air pollution impacts on ecosystems  
in a multiple issues – multiple effects context**  
*Monday 16 – Thursday 19 April 2012*

**Warsaw, Poland**

Sponsored by:

National Centre for Emissions Management of the Institute of Environmental Protection (KOBIZE) , Poland  
Institut National de L'Environnement Industriel et des RISques (INERIS), France.  
Dutch Ministry of Infrastructure and the Environment  
Coordination Centre for Effects (CCE) at RIVM, The Netherlands.

**Monday, 16 April 2012**

***Opening of the 22<sup>nd</sup> CCE workshop and 28<sup>th</sup> TF and Key Note Session***

*Chair: Tomasz Pecka*

8:00-8:30	<b>Registration, coffee and preparation of posters</b>	<i>KOBIZE and CCE</i>
8:30-8:45	<i>Welcome</i>	<i>Mrs. Sylwia Wasniewska – Director, KOBIZE</i>
8:45-9:00	<i>Polish emission inventory for the UNECE LRTAP Convention</i>	<i>Mr. Bogusław Dębski</i>
9:00-9:20	<i>A retrospective review of the ICP Modelling and Mapping story</i>	<i>Wojciech Mill</i>
9:20-9:30	<i>Objectives of the CCE workshop and the meeting of the Task Force on Modelling and Mapping:</i> Important objectives of the meetings include: (1) Response to the 2011-2012 call for NFC contributions regarding the use of models to assess (site specific) dynamics of soil chemistry and plant species diversity (2) Field measurements, model assessments and regional applications addressing (the change of) plant species diversity (3) ICP M&M and WGE - workplan issues (4) Issues to be anticipated for ICP M&M workplans until 2020 (5) Status of the scientific support of the revision of the Gothenburg protocol and the EC thematic strategy on air pollution : TFIAM and WGE (impact) assessment reports (6) Progress and training session addressing (NFC-) specific issues on dynamic soil-vegetation modelling	<i>Jean-Paul Hettelingh and Anne-Christine Le Gall</i>
9:30-9:45	<i>Adoption of 2011 TF minutes.</i> <i>Update on the developments in the UN ECE LRTAP Convention</i>	<i>Anne-Christine Le Gall Krzysztof Olendrzynski</i>

***Topic 1: Call for data: results***

*Chair: Max Posch*

9:45 – 10:15	<i>NFC response to call for contributions</i>	<i>CCE: Jaap Slootweg</i>
10:15-10:30	<b>Discussion</b>	
10:30-10:45	<b>Coffee break and poster session in the presence of poster authors</b>	
10:45-11:05	<i>Swedish NFC - call for data 2011/2012 and progress on critical loads work</i>	<i>Karin Hansen</i>
11:05-11:25	<i>Dynamic soil-vegetation modeling of 7 long-term forest monitoring sites in Austria</i>	<i>Thomas Dirnböck</i>
11:25-11:45	<i>Modelling and mapping critical loads in the United States: current status and future directions</i>	<i>Jason Lynch</i>
11:45-12:05	<i>Environmental effects of emissions reduction in Poland in the last decades</i>	<i>Tomasz Pecka</i>
12:00-12:30	<b>Discussion</b> <i>TF Conclusions and recommendations for on Topic 1</i>	<i>Anne-Christine Le Gall</i>
12.30-14.00	<b>Lunch</b>	

**Topic 2: On field measurements, model assessments and regional applications addressing (the N-induced change of) plant species diversity**

Chair: Jean-Paul Hettelingh

14:00-14:20	<i>Response of alpine plants and communities to increased nitrogen deposition</i>	<i>Erika Hiltbrunner</i>
14:20-14:40	<i>N deposition affects species richness and diversity in Switzerland</i>	<i>Lukas Kohli, Tobias Roth, Beat Rihm</i>
14:40-15:00	<i>Potential Species Loss Due to Increased Nitrogen Deposition - Tentative Maps for Selected Swiss Ecosystems</i>	<i>Beat Rihm, Lukas Kohli</i>
15:00-15:20	<b>Discussion</b>	
15:20-15:40	<b>Coffee break and poster session in the presence of poster authors</b>	
15:40-16:00	<i>Recent development and progress with ForSAFE-VEG in mountain areas. Potential for use in other countries, parameterization, challenges and possibilities</i>	<i>Harald Sverdrup</i>
16:00-16:20	<i>Vegetation endpoints for critical loads estimates of nitrogen</i>	<i>Salim Belyazid</i>
16:20 – 16:40	<i>Influence of climate change and nitrogen deposition on French forest soil and vegetation : ForSafe Veg predictions 2010-2100</i>	<i>Anne Probst</i>
16:40 – 17:00	<i>Impact of climate changes on forest ecosystems sensitivity to atmospheric deposition of sulphur and nitrogen – the case study for Poland</i>	<i>Magdalena Reizer</i>
17:00 – 17:20	<i>Is biodiversity affected by nutrient nitrogen exceedances in a short or long term?</i>	<i>Alessandra de Marco, Maria Francesca Fornasier, Enrico Pisoni, Marcello Vitale</i>
17:20 – 17:40	<i>Impact of climate change on critical loads</i>	<i>Jane Hall</i>
17:40-18:00	<b>Discussion</b> <i>Preliminary TF recommendations on Topic 2 (to be continued...)</i>	<i>Anne-Christine Le Gall, chair of the Task Force M&amp;M</i>
18:00	<b>Adjourn</b>	

## Tuesday, 17<sup>th</sup> April 2012

### **Topic 2: Continued...**

*Chair: Jean-Paul Hettelingh*

9:00 – 9:30	<i>Transboundary air pollution in perspective - achievements and future challenges?</i>	<i>Peringe Grennfelt (chairman WGE)</i>
9:30 - 9:40	<i>ROMUL - model of soil organic matter and plants nutrition elements dynamics based on forest floor and soil horizons data.</i>	<i>Alexander Komarov</i>
9:40 – 10:00	<i>Exceedance of critical loads for Poland and NATURA 2000 areas - effects of the future N and S deposition scenarios</i>	<i>Rafal Ulanczyk</i>
10:00-10:20	<i>Critical Loads for NATURA 2000 areas - methods and experiences in Germany</i>	<i>Thomas Scheuschner</i>
10:20-11:00	<i>Modelling regional effects of air quality (under climate change) with potentially policy-relevant indicators for biodiversity<sup>1</sup></i>	<i>Jaap Slootweg, Max Posch, Gert Jan Reinds, Luc Bonten</i>
11:00 – 11:30	<b>Coffee break and poster session</b>	
11:30 – 12:00	<b>Final discussion on Topic 2,</b> <i>Possible discussion points:</i> <i>- are we on the right track under LRTAP (LTS; Collaboration with other ICPs) ?</i> <i>- which biodiversity is desired?</i> <i>- current indicators?</i> <i>- from sites to regions?</i>	<i>All</i>
	<b>TF Conclusions and recommendations on Topic 2</b>	<i>Anne-Christine Le Gall</i>

### **Topic 3: Valuing air pollution effects**

*Chair: Anne Christine Le-Gall*

12:00-12:20	<i>Valuing the impact of Nitrogen pollution on ecosystem services in the UK</i>	<i>Chris Evans</i>
12:20 – 12:40	<i>Discussion on indicators for Cost-Benefit analysis</i>	<i>Mike Holland</i>
12:40-14:00	<b>Lunch Break</b>	

### **Topic 4: Issues to be anticipated for future workplans of the ICP M&M**

*Chair: Anne Christine Le-Gall*

14:00 – 15.00	- under the LRTAP Convention - in support of regional policies: ICP M&M and NFC knowledge can complete the need for information to support national and regional policies and strategies in the field of biodiversity and climate change ( <i>discussion</i> ) Outreach, recent and future activities (...continued on Thursday as appropriate) NFC tour de table over recent and future activities	<i>Other ICPs /TF contributions</i>  <i>NFC-Tour de table and presentations following registrations</i> <i>All</i>
	<b>Task Force Conclusions and recommendations on Topic 3 and Topic 4</b>	<i>Chair : Anne Christine Le Gall</i>

<sup>1</sup> This work is partly funded by the Dutch Ministry of Infrastructure and the Environment.

**16 :00 - Bus leaving from hotel Radisson Blu for the Excursion, continuing to the Conference dinner at appr. 19.00 hrs.**

**Wednesday, 18<sup>th</sup> April 2012**

**Topic 5: Work plan of - and collaboration under - CLRTAP 2012-2013**

*Chair: Anne Christine Le-Gall*

<b>Collaboration with modelling and mapping activities</b>		
9 : 00- 9 :20	<i>Impacts of ozone on food security and carbon sequestration by vegetation</i>	<i>Harry Harmens</i>
9 :20 – 9 :40	<i>Contribution of ICP Vegetation to the Impacts analysis report and Guidance Document V</i>	<i>Harry Harmens</i>
9 :40- 10 :00	<i>Status ICP Waters</i>	<i>Berit Kvaeven</i>
10 :00 – 10 :20	<i>Status ICP IM</i>	<i>Lars Lundin</i>
10 :20-10 :30	<i>Status ICP Forests</i>	<i>Martin Lorenz</i>
10 :30-10 :45	<b>Discussion</b>	
10 :45 – 11 :15	<b>Coffee Break and Poster session</b>	
11 :15-11 :45	<i>(1) Status of the support to the revision of the Gothenburg protocol (2) Future of EMEP grid</i>	<i>Wolfgang Schoepp (EMEP-CIAM)</i>
11:45-12:15	<i>Status of WGE reporting on impact of air pollution on ecosystem, health and materials</i>	<i>Anne-Christine Le Gall</i>
12:15 – 12:30	<b>TF Conclusions et recommendations</b>	
12:30-14:00	<b>Lunch break and poster session</b>	

**Topic 6: Training session for dynamic models: VSD+-VEG and auxiliary models (GrowUp; MetHyd...)**

Moderators: Max Posch, Jaap Slootweg, Gert Jan Reinds, Luc Bonten, [Salim Belyazid]

14:00 – 18:00 Training session for dynamic modelers users

## Thursday 19<sup>th</sup> April 2012

### **Topic 7: Inputs to the 31<sup>th</sup> session of WGE and wrap-up of meeting**

*Chair: Anne Christine Le-Gall*

9:00 – 10:30

- Discussion and recommendations following the training session on dynamic modelling
- Issues for future work
- Continuation of NFC tour de table (topic 4) as appropriate

*NFC and All*

10:30

#### **Coffee break**

10:30-12:00

*Draft ICP M&M contributions to WGE meeting  
Technical document(s) for 31<sup>st</sup> WGE session  
(Geneva, 20-21 Sept. 2012)  
+ CCE Status/Progress Report  
Future meetings  
Adoption of the draft minutes of the meeting.  
**Closure of the CCE WS and ICP M&M Task  
Force meeting followed by lunch.***

*Anne Christine Le Gall  
Jean Paul Hettelingh*

## Posters

(Poster sessions are combined with coffee breaks)

<i>Potential impacts of atmospheric reactive nitrogen in southern Ontario</i>	<i>Julian Aherne and Thomas A. Claire</i>
<i>Danish critical loads for biodiversity</i>	<i>Jesper Bak</i>
<i>Nitrogen deposition and biodiversity in Bulgaria</i>	<i>Borislava Borisava</i>
<i>Summary of the response to the call for data</i>	<i>CCE</i>
<i>Factors that Influence the Ecosystem Integrity and Adaptive Capacity to Climate Change</i>	<i>Stela Drucioc</i>
<i>Critical loads, exceedances and vegetation shift modeling at some intensive forest monitoring sites in Slovenia</i>	<i>Klemen Eler and Milan Kobal</i>
<i>Exceedances of heavy metals on the territory of the Crimean peninsula over 3 years of monitoring</i>	<i>Helena Evstafyeva</i>
<i>Nitrogen Deposition and Critical Load Exceedance for Irish Grassland and Forest Ecosystems</i>	<i>Jason Henry and Julian Aherne</i>
<i>Effects of Climate Change on Air Pollution Impacts and Response Strategies for European Ecosystems (FP7 - ECLAIRE)</i>	<i>Clare Howard and Jean-Paul Hettelingh et al.</i>
<i>Eutrophication due to green alder expansion into subalpine grassland</i>	<i>Erika Hiltbrunner</i>
<i>Empirical impact indicators agree with exceedances of critical loads (ICP IM and ICP M&amp;M)</i>	<i>Maria Holmberg et al.</i>
<i>Role of nitrogen speciation in acidifying potential of atmospheric deposition (over 15 years) on French forests</i>	<i>Arnaud Mansat</i>
<i>The HARMONIZATOR a handy tool for CL and other data comparison and analysis</i>	<i>Wojciech Mill and Adrian Schlama</i>
<i>Impact of nitrogen depositions on soil/plan species quantitative attributes: results from field research in forest ecosystems of Central Russia</i>	<i>Irina Pripulina</i>
<i>Ecosystem Integrity and Regional Climate Change: the OESI project.</i>	<i>Jan Riediger</i>
<i>... Title to be revealed during the meeting...</i>	<i>Ed Rowe</i>
<i>Priorities of environmental issues in the framework of the economic development process in Azerbaijan</i>	<i>Sadig Shiraliyev</i>
<i>Acidity Critical Loads Assessment for Running Surface Waters in the Czech Republic</i>	<i>Irina Skorepova</i>

**Posters invited !**

**Following registration**