



# CONVENTION ON LONG-RANGE TRANSBOUNDARY AIR POLLUTION

International Cooperative Programme on  
Integrated Monitoring of Air Pollution Effects on Ecosystems  
25<sup>th</sup> ICP IM Task Force Meeting & Workshop

Organiser and Location  
Swedish University of Agricultural Sciences, SLU  
Uppsala

Swedish responsible  
Swedish Environmental Protection Agency

Thursday 11 May  
II. ICP IM Task Force meeting



# ICP IM Task Force

## Explanatory notes to the agenda

1. Opening of the meeting
2. Approval of minutes of the 24<sup>th</sup> ICP IM TF in Asker, Norway, 2016

# ICP IM Task Force

## Explanatory notes to the agenda



### 3. Report from Chairman and Programme Centre

Presented at the Working Group on Effects 2016

**WGE chairman reported from EB**

CLRTAP Strategy reviewed 2016

Monitoring specially mentioned

Emphasis on policy oriented messages and further actions by Parties

Joint report presented and accepted

Outreach to EECCA and SEE and translations

The Assessment report Report was presented in Brussels and Batumi



# ICP IM Task Force

## Explanatory notes to the agenda

### Item 3 continues

#### Highlights in joint report

World Health Assembly resolution road map

Economic losses ozone impacts on wheat yield revealed Parties presented measures for emission reductions

Climate warming may increase the vulnerability of ecosystems

Excess N may have negative effects ; reductions policy relevant

Hg in fish over recommended values for humans

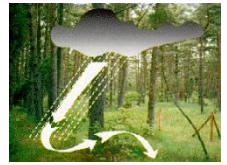
CH<sub>4</sub> on hemispheric scale to reduce ozone damage

Climate measures include reductions of methane and nitrous oxide

CCE meets problems with financing

# ICP IM Task Force

## Explanatory notes to the agenda



### Item 3 continues

#### Two year workplan

A joint workplan together EMEP and WGE, currently 2016-2017

Next period: 2018 - 2019

#### Changed meeting structure;

EMEP and WGE together in September 2017

EB somewhat back to earlier schedule but several meetings and a meeting in December 2017

EMEP and WGE homepages should have a common portal. But, now probably WGE homepage under UN ECE.



## Item 4

### Highlights from ICPs at WGE 2016

**Forests** - Database and evaluations priority; data used in publications

**Waters** - biodiversity would improve, in line with chemical recovery

**Materials** - trends in air pollution, corrosion and soiling showing a 50% decrease in corrosion since 1987 but in recent years poor further improvements

**Vegetation** - report on revised ozone risk assessment methods for vegetation; report analysis of tropospheric ozone - TOAR

**IM** - nitrogen still accumulates in the ecosystems and output is very low compared to input. S released from catchment soils. HM still accumulating in ecosystems.



## Item 4 continues

### Highlights from ICPs

- MandM** - Call for calculating biodiversity critical loads and by updating the acidification and eutrophication critical loads
- TF Health** - WHO AIRQ+ software to quantify the health impacts of air pollution
- JEG** - dynamic modelling in particular with respect to nutrient nitrogen biological response, aquatic biodiversity and climate

### Updating of scientific and technical knowledge

The Joint report highlighted impacts of air pollution on human health. Updated scientific and technical knowledge as presented above. Reports with stronger connections to societal needs and also with direct response to the Convention requests.



## Joint EMEP SB and WGE Bureau meeting

### Item 5 Update scientific knowledge etc.

Joint thematic sessions three issues:

the linkages between climate change and air pollution; benzo(a)pyrene and wood burning; and ozone. Contribution of methane, black carbon and other climate change forcers.

Co-operation AMAP, Climate and Clean Air Coalition, EANET, etc.

CCE is financially problematic and the Netherlands intend to stop 2018.

Election WGE; Ms. Isaura Rabago (Spain) new Chair for a two-year term. Re-elected vice chairs Mr. Jesper Bak (Denmark), Ms. Gudrun Schuetze (Germany), Ms. Sabine Augustin (Switzerland), Mr. Thomas Dirnböck (Austria) and Mr. Nebojsa Redzic (Serbia).

Next WGE, No. 36, is scheduled for 11-15 September 2017.





## Joint EMEP SB and WGE Bureau meeting

### Item 6

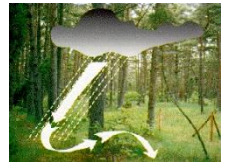
The ICP review concludes the importance of continuing monitoring and enhances the co-operation between ICPs as well as between WGE and EMEP.

CLRTAP launched a summary report, *Towards Cleaner Air*

Next Workplan is for 2 years with content reported by May 20.

WGE homepage; a page under UN ECE; "[unece-wge.org](http://unece-wge.org)"

HTAP, consider interactions between air pollution and climate including ozone, atmospheric compounds, Hg, ozone and POPs.



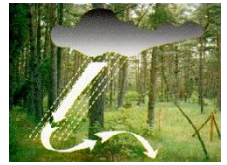
## 7. CLRTAP Workplan

### Workplan 2016-2017

#### WGE 2017 joint EMEP and WGE meeting

ICPs present the obligations and monitoring work content for the leading countries and the PCs.

Mandates to be presented related to the CLRTAP strategy and an update of the MoU.



## **7. CLRTAP Workplan**

### ICP IM Mandates

There is a template for revised mandate for a WGE  
ICP/TF/Centre

Lead country: Sweden  
ICP IM PC at SYKE, Finland

Determination and prediction of the state of ecosystems and their long-term changes with respect to the regional variation and impact of selected air pollutants, with special attention to effects on biota.



## *ICP Integrated Monitoring*

### Ecosystem investigation

Monitor state and changes with causative explanations

Develop and validate models

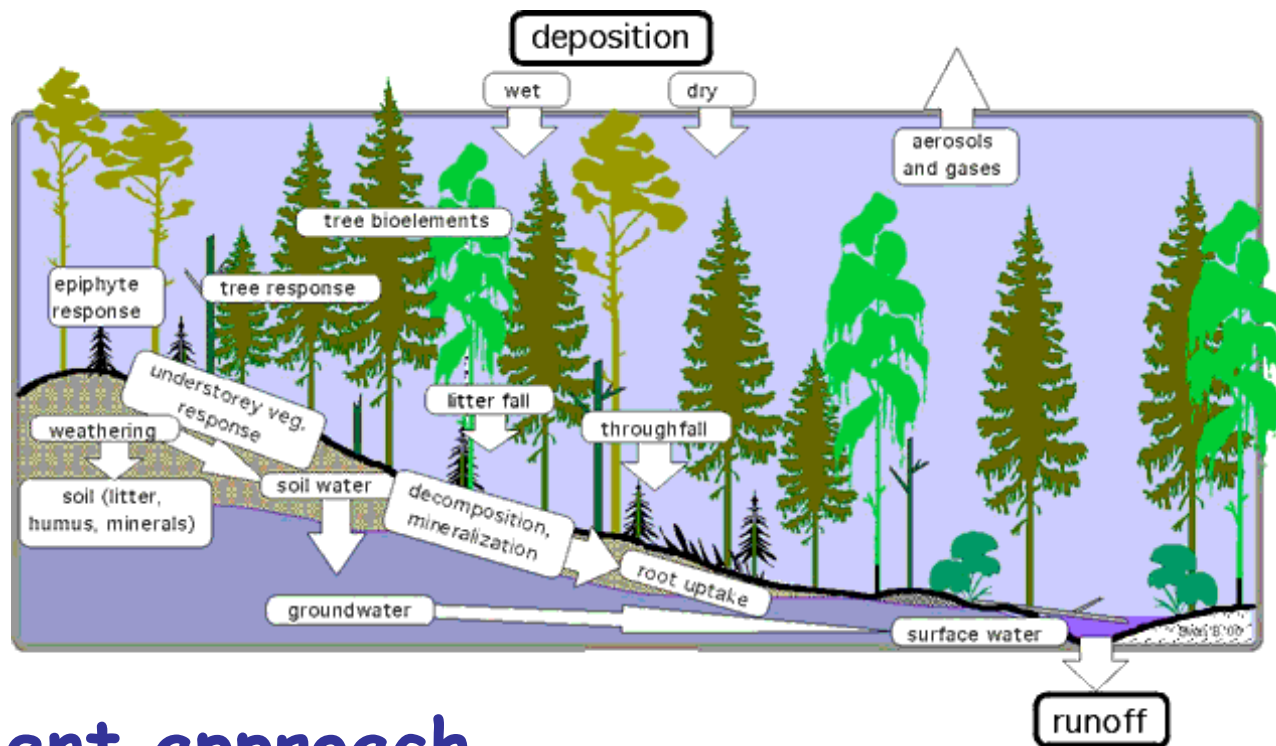
Detect changes by biomonitoring

Cause-effect approach

Cross-media flux approach



# Integrated Monitoring



Catchment approach  
Budget calculations  
Process oriented

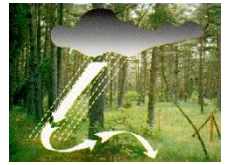


## Item 8 - ICP IM activities 2016

The ICP IM activities in 2016/2017 included work on S and N in-/output budgets for IM sites, dynamic vegetation modelling, the Annual ICP IM Report No 25 and common items such as outreach and common activities (ECE/EB.AIR/WG.1/2016/8).

Representatives have participated in a number of international meetings.

*Database update (later item 10)*



## Item 9

# Reports from WGE and other ICPs

Possibly

Heleen de Wit, ICP Waters; Recent activities of ICP Waters



Item 10

Database

Item 11

Reports 2017

## 26<sup>th</sup> ICP IM Annual Report

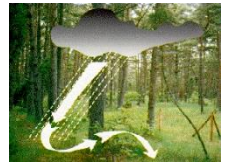
Progress Report on connections between calculated CL exceedances and observed impacts of N. ICP IM PC.

Progress Report on concentrations of heavy metals in important forest ecosystem compartments (Sweden and ICP IM PC)

Report on mercury in the aquatic environment; Joint Report together with ICP Waters with ICP IM contribution

Comparison of activities across continents and regions; outreach and hemispheric view will relate to HTAP, EECCA, SEE and LTER as regards ICP IM





## Item 11

# Reports 2017

## Common activities

Contributions to WGE/EMEP Joint report with policy relevant results

## Revised Mandates

## Technical reporting



## Item 12

# Technical Reports and deliverables

The Joint report should present important results with policy relevance to **May 20, 2017**.

Medium term workplan for ICP IM has plans for the year 2018 and 2019 which will be covered under item 15; technical report submitted **June 1, 2017**,

Co-operation between WGE and EMEP with a joint meeting **11-14 September 2017**,

Preparations of the 36<sup>th</sup> session of WGE, ordinary ICP activities will be given a short overview with main focus on common items and thematic scientific reporting, especially policy relevance of the ICP results



## Item 14

Co-operation with other ICPs and external projects/organizations:  
LTER-Europe, ALTER-Net, LifeWatch, Expeer Natura 2000, etc.

More meetings could be found on;

<https://www.unece.org/environmental-policy/conventions/envlrtapwelcome/meetings-and-events.html#/>

LTER Europe

ILTER

ALTER-Net

Other future work priorities



## Item 15 Work plan 2017 and 2018-2019

### 2018

Scientific paper on long-term trends in atmospheric deposition and runoff water chemistry of S and N compounds at ICP IM catchments in relation to changes in emissions and hydrometeorological conditions

Scientific paper on dynamic modelling on the impacts of future deposition scenarios on soil and water conditions in ICP IM catchments

Reporting of ICP IM activities to WGE



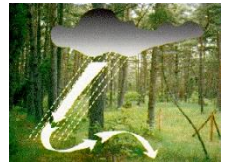
## Item 15 Work plan 2017 and 2018-2019

2019

Report on dynamic modelling on the impacts of deposition and climate change scenarios on ground vegetation (ICP IM)

Scientific paper on the relationship between critical load exceedances and empirical ecosystem impact indicators (ICP IM).

Reporting of ICP IM activities to WGE



## Item 16

### Financing/external applications

Trust fund - small amendments, slight decrease

Parties support most important

EU Horizon 2020

*FTP and SRA*

## Item 17

### Next Task Force meeting

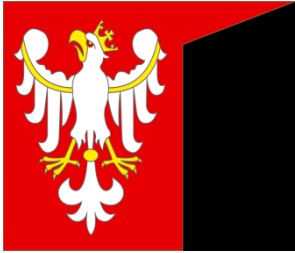


*ICP Integrated Monitoring of Air  
Pollution Effects on Ecosystems -  
ICP IM*

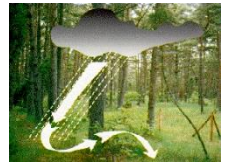
*Next Task Force  
2018*



## in May in Poland







## Item 18

### Other business



## Item 18

Other business

Sensitive issue

Lars Lundin will retire mainly due to Swedish Regulations

and have a suggestion

Ass. Professor Ulf Grandin will take over

This is recognised by SE EPA and SLU



Item 19

Conclusion and end

Thank You



*The End*

