

Vart är det internationella luftvårdsarbetet på väg? Vilken roll har Norden? Hur passar Nordens luftvårdsarbete in i den internationella agendan inom UNECE och andra organisationer?

Oslo , 19 – 20 November 2019

Anna Engleryd
Swedish Environmental Protection Agency

Fish extinction and forest die back

- Discovery of the acid rain problem



“An Insidious Chemical Warfare Among the Nations of Europe” – Nordic countries in the driving seat.



Royal Ministry for Foreign Affairs
Royal Ministry of Agriculture



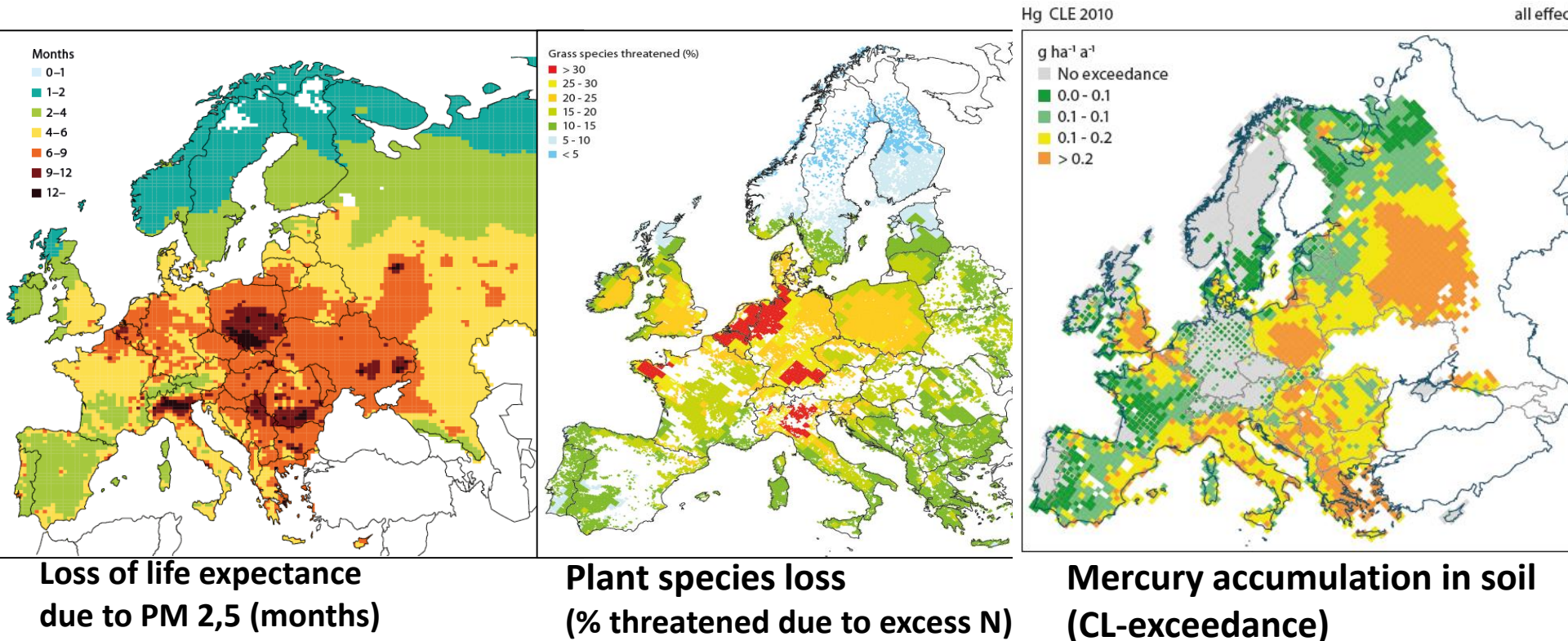
Air pollution across national boundaries The impact on the environment of sulfur in air and precipitation

Sweden's case study for the United Nations conference on the human environment





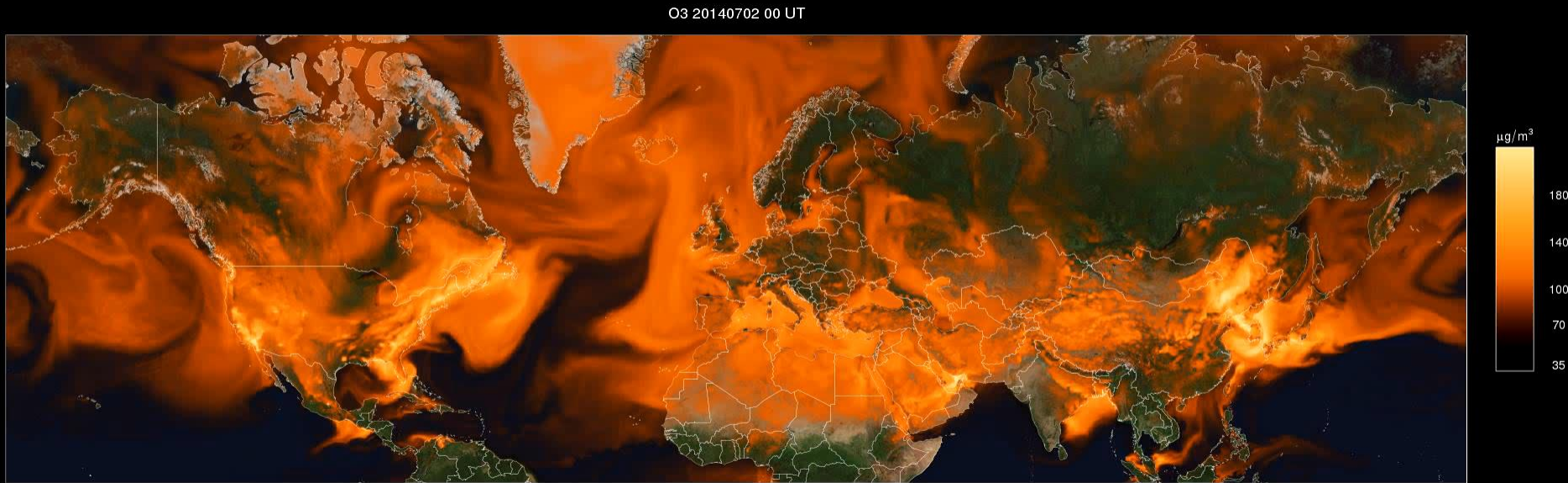
Remaining challenges



Lower peak ozone levels, but no decline in average concentrations

Dealing with ozone requires international cooperation

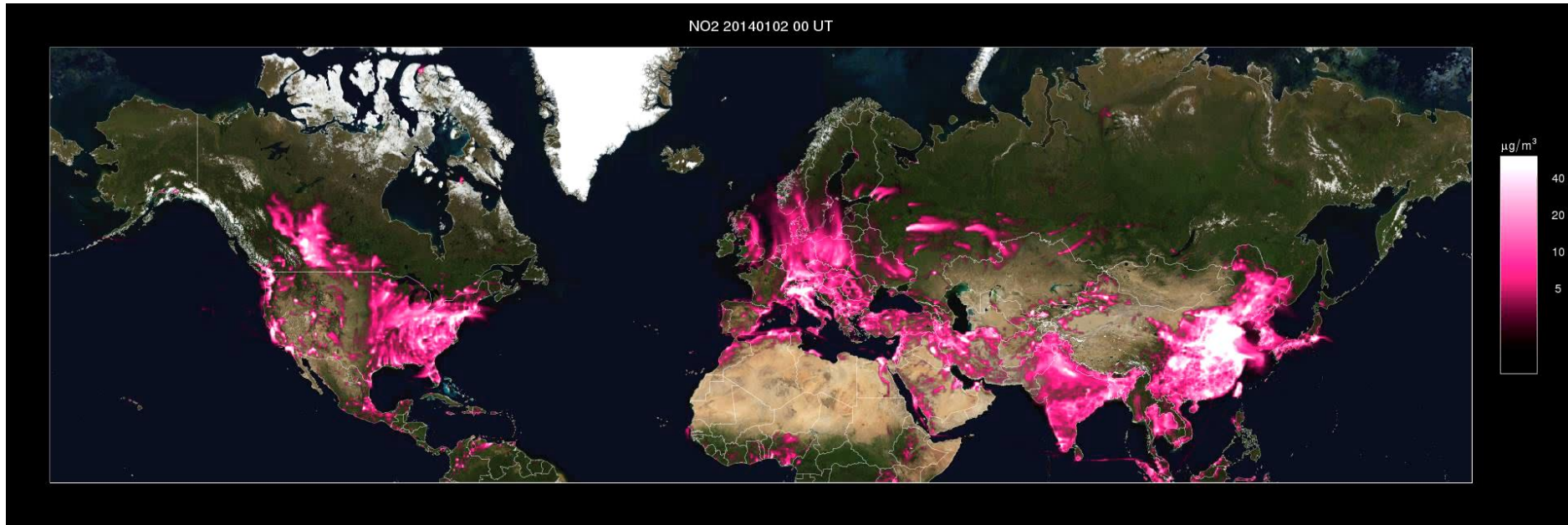
- Because of long lifetime in the atmosphere
- Fluctuations according to solar radiation variations
- Precursors are emitted by the city centers (NO_x) but highest values are observed in rural areas



High resolution (7km) CHIMERE runs in summer 2014

Source: Ineris

NO₂: local sources and large scale impacts



High resolution (7km) CHIMERE runs in January 2014 (NO₂)

Source: Ineris

PM2.5 : complex air pollution patterns

Episodes and high concentrations result from local sources in the cities (traffic and residential heating) and transboundary sources (agriculture)

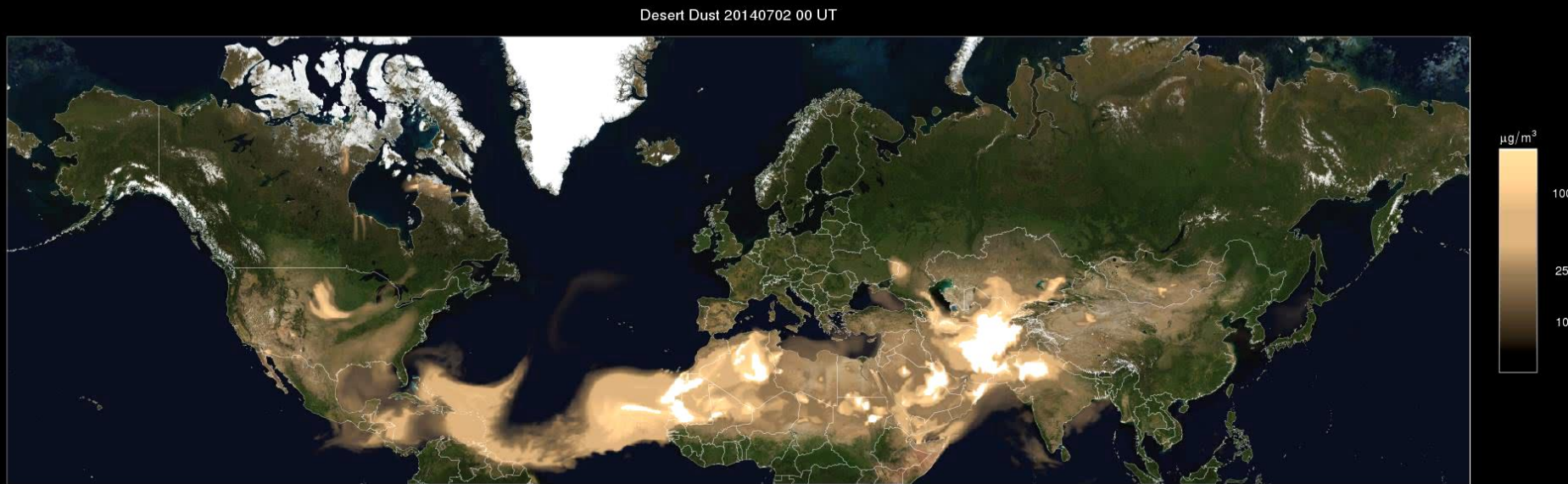
→ **Development of local/national/sectoral action plans is essential**



High resolution (7km) CHIMERE runs in March 2014
(ammonium nitrate episode in Europe)

PM can also result from natural sources

- Impact of Saharan dusts on PM levels in Guadeloupe and Martinique islands



High resolution (7km) CHIMERE runs in July 2014 (dusts)

CLRTAP Long term strategy 2020-2030

- Ratification and implementation
- Focus on the EECCA region
- Increased cooperation with other regions
 - Forum for international cooperation on Air Pollution to be launched in December 2019
- Improve the scientific and technical basis

Priority challenges include

- Effects of ozone and particles (and their precursors)
- The global and regional nitrogen cycles
- Long-term risks related to POPs and HMs
- Transcontinental transport of air pollution (increased importance in the UNECE)
- The importance of long-range transport of air pollutants for air quality in cities
- The problem of scales/finding the right governance level
- Links between air pollution, ecosystems and climate change

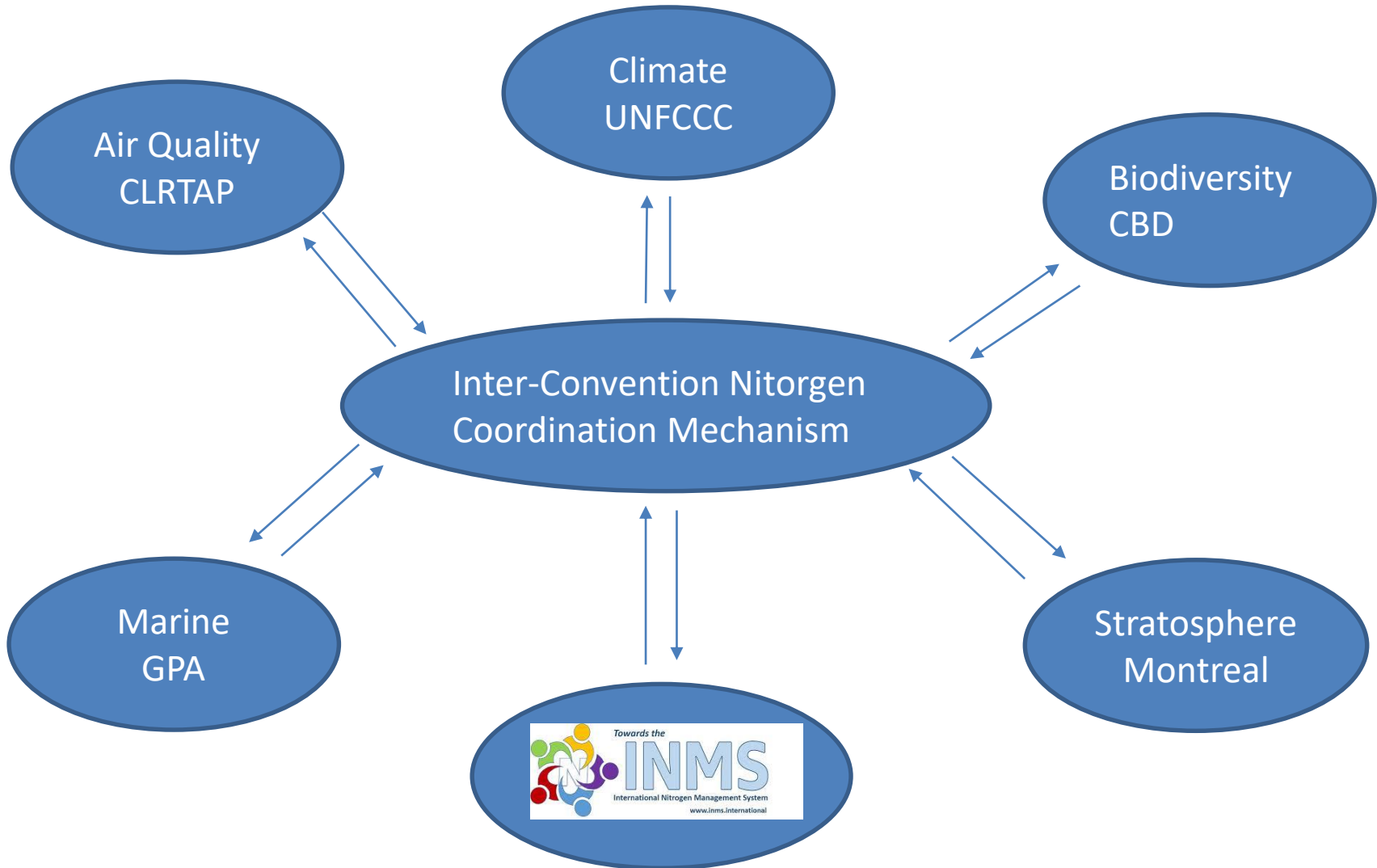
Whats next ?



- Implementation of the NECD and the revised Gbg protocol
- Review of the Gbg protocol
- Result of the fitness check of the EU ambient AQ directives
- Next generation of policy instruments ?
- New focus ? New substances ? (Methane, BC , Hg....)
- Focus on specific sources ? (Shipping ,Agriculture, small scale solid fuel burning)
- Reactive Nitrogen - INCOM
- Urban/city focus - *Expert Panel on Clean Air in Cities (under TFIAM)*
- Increased international cooperation beyond EU and UNECE
- Synergies with other policy areas like energy, transport, agriculture and climate.



INCOM (Inter-Convention Nitrogen Coordination Mechanism)



Nordic support, Nordic input, Nordic visibility



Nordic influence

Saltsjöbaden VI
Gothenburg, Sweden 2018
23 mars 2018

Internationell samling för ren luft

Städernas miljöproblem ett huvudämne på konferens i Göteborg



De så kallade Göteborgsprotokollen är den kanske viktigaste internationella överenskommenheten när det gäller att begränsa utsläppen i Europa och Nordamerika. Förbundet har lyckats förhandla sig ett mindre utsläpp av en sorts luftföroreningar till sina bestämda löpstråk.

Som efter ett genast. In underkändan 1999 utarbetade Naturvårdsverket tillsammans med FN den första internationella Saltsjöbadenskonferensen i Stockholm år 2000 för att lösa uppmaningarna från Göteborgsprotokollen och för att stärka förbindelserna mellan olika myndigheter i länderna som väger sig på de senaste åren. Konferenserna har varit ett viktigt forum för utvärdering och utvärdering av åtgärder som vidtagits för att förbättra luftkvaliteten i olika städer och regioner.

Årets konferens ägde rum i Göteborg i februari. Årets konferens ägde rum i Göteborg i februari. Årets konferens ägde rum i Göteborg i februari.

Acid Rain
Science and policy interactions over 50 years



Forsberg från Umeå Universitet var en av sändningarna och var en av utvärderarna om förhållanden mellan partier och andra.



40 years of successful cooperation for clean air



The role of the Nordic countries

- Joint work/information sharing on implementation of the Gbg protocol and NECD.
- Continue the support to EECCA countries (nabo länder).
- Input to the Gbg review.
- Input to the EU process on ambient air quality.
- Participate in the Forum for international cooperation on clean air.
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