

Current activities, ICP IM

ICP Integrated Monitoring of Air Pollution Effects on Ecosystems -

ICP IM

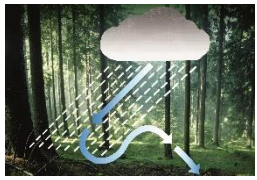
Ulf Grandin, Salar Valinia & Martin Forsius

Maria Holmberg (presenter)

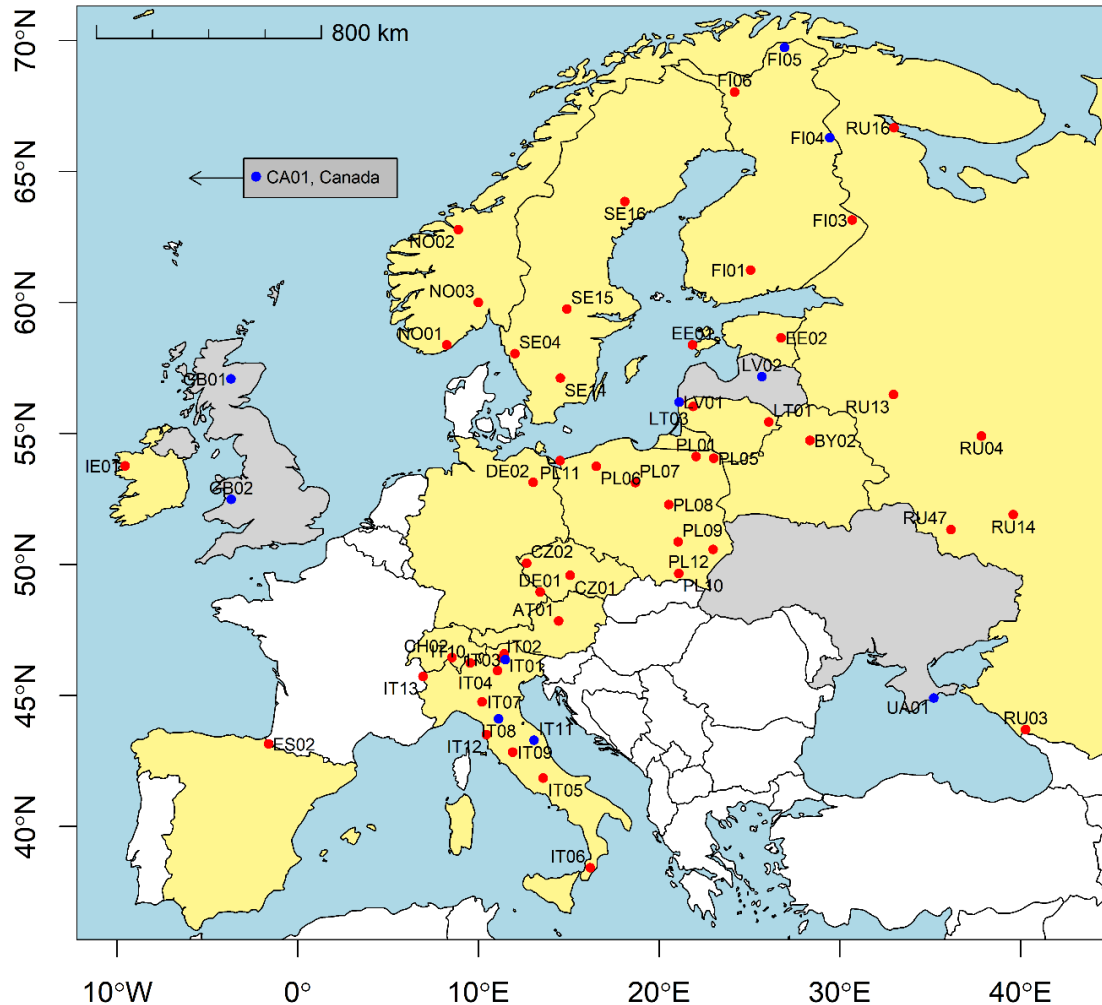


SWEDISH ENVIRONMENTAL
PROTECTION AGENCY





The current ICP IM network



15 active countries

49 active sites

New interest from Canada

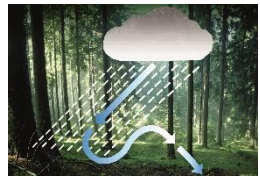
● Active IM site

● Inactive IM site

Country with active IM sites

Country with only inactive IM sites

Country without IM sites

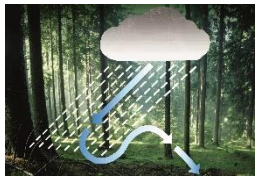


Recent key achievements for current WGE strategy

Four scientific papers in priority topics

- Currently legislated decreases in nitrogen deposition will yield only limited plant species recovery in European forests. doi: <https://doi.org/10.1088/1748-9326/aaf26b>
- Modelling study of soil C, N and pH response to air pollution and climate change using European LTER site observations. doi: <https://doi.org/10.1016/j.scitotenv.2018.05.299>
- Long-term changes (1990–2015) in the atmospheric deposition and runoff water chemistry of sulphate, inorganic nitrogen and acidity... doi: <https://doi.org/10.1016/j.scitotenv.2017.12.245>
- Major disturbances test resilience at a long-term boreal forest monitoring site. doi: <https://doi.org/10.1002/ece3.5061>





Scientific papers on the 2020-21 work plan

Activity	Time frame	Status
1.1.1.15 Scientific paper on the impacts of internal catchment-related nitrogen parameters to TIN leaching	2020	Draft MS
1.1.1.16 Scientific paper on HM trends in concentrations and fluxes across ICP IM sites in Europe	2021	Draft MS
1.1.1.17 Scientific paper on the effects of N enrichment on forest vegetation. A co-operation between ICP IM and ICP Forests.	2020	Draft MS



Suggested work plan items for 2020-2022

Activity	Time frame	Status
Scientific paper on the recovery in the epiphytic lichen community after the decrease in S deposition	2020	Draft MS
Report/scientific paper on state and effects of mercury and heavy metals at the IM sites	2020	Draft MS
Cooperation with CDM on biodiversity and critical loads	2020-2022	Initial plans
Scientific paper on the relationship between critical load exceedances and empirical ecosystem impact indicators	2020	Draft MS
Expanding the IM network - IM light - To more countries	2020-2022	Plans



Thanks for your attention!