



Welcome to a one day seminar relevant to those interested in air pollution impacts on vegetation, from a scientific, policy, or science-to-policy perspective.

Ground-level ozone – present-day and future risks for impacts on vegetation

Where: Lundqvist & Lindkvist, Klarabergsviadukten 90, Stockholm

When: Monday 9 March 2015, 09:30-16:00

Tropospheric ozone is a secondary air pollutant formed in reactions involving nitrogen oxides and volatile organic compounds (including methane and carbon monoxide) at high solar radiation. It adversely affects vegetation, human health and surfaces of materials, and is also an important short-lived greenhouse gas.

This seminar highlights the effects of ground-level ozone (i.e. ozone near the Earth surface) on vegetation under present-day and projected future climate, as well as at different spatial scales (Sweden, Europe, globally). State-of-the-art knowledge on ozone impacts on crops and forests will be presented, including effects on productivity, ecosystem carbon sequestration, and crop quality and nutrient use-efficiency.

Spatial variation in ozone concentrations among regions as well as projected temporal variation in a changing climate will be presented and discussed in the context of risks for vegetation. Finally, the role of ground-level ozone for national and European policy will be elucidated. There will also be time for discussions.

The seminar is free of charge and you can find the full programme on the next page. Welcome!

Register here (click to open webform) before the 19 February 2015.

Organisers:

BECC, Biodiversity and Ecosystem Services in a Changing climate, www.becc.lu.se

MERGE, Modelling the Regional and Global Earth system, www.merge.lu.se

CLEO, Climate change and Environmental Objectives, www.cleoresearch.se

SCAC, Swedish Clean Air and Climate research program, www.scac.se

Programme

Monday 9 March:

- 9:30-10:00 Arival and coffee / tea
- 10:00-10:15 Effects of ground-level ozone on vegetation – an overview
Håkan Pleijel, University of Gothenburg
- 10:15-10:40 Present-day and future ozone concentrations in a Swedish, European and Global perspective
David Simpson, Chalmers University of Technology
- 10:40-11:00 Ozone – an important short-lived greenhouse gas
Joakim Langner, Swedish Meteorological & Hydrological Institute, SMHI
- 11:00-11:15 Discussion on present and future ozone concentrations
- 11:15-11:40 Effects of ozone on crops and cropland ecosystems
Håkan Pleijel, University of Gothenburg
- 11:40-12:00 Effects of ozone on trees and forest carbon sequestration
Per-Erik Karlsson, IVL Swedish Environmental Research Institute
- 12:00-13:00 Lunch
- 13:00-13:20 Modelling the impact of ozone on ecosystem carbon sequestration
Stephen Sitch, University of Exeter
- 13:20-13:40 Effects of ozone on plants in subtropical regions
Zhaozhong Feng, Chinese Academy of Sciences
- 13:40-14:00 European ozone impact research for policy formation
Gina Mills, Centre for Ecology & Hydrology
- 14:00-14:15 European policy on ground-level ozone
Anna Engleryd, Swedish Environmental Protection Agency
- 14:15-14:30 Swedish policy on ground-level ozone
Titus Kyrklund, Swedish Environmental Protection Agency
- 14:30-14:45 Ground-level ozone in an NGO perspective
Christer Ågren, AirClim – Air Pollution and Climate Secretariat
- 14:45-15:15 Discussion on ozone effects and policy
- 15:15-16:00 Coffee / tea