



ICOS SWEDEN ANNUAL WORKSHOP

ULTUNA 21-22 OCTOBER 2013

The role of the boreal ecosystems for the regional carbon cycle



WORKSHOP PROGRAM

ICOS Sweden focusses on measurements at boreal ecosystems and addresses the role of the boreal ecosystems for the regional carbon balance in its first annual workshop in October 2013.

Due to the large carbon pools stored in the soils and vegetation of the boreal ecosystems, understanding the carbon fluxes at these ecosystems are essential for assessing the global carbon balance and its future development, especially as the change in climate is particularly rapid in northern latitudes.

If you would like to attend the meeting, please let us know by latest on 10 October 2013. There are also still room for posters. Register at:

<https://www.akademikonferens.se/icos2013>

ICOS Sweden Annual workshop, Ultuna 21-22 October 2013
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Program:

Monday 21/10

Stakeholder and user group meeting

8.30-9.00 *Registration and coffee*

9.00-9.10 Welcome, Assistant Vice-Chancellor of the Swedish University of Agricultural Sciences (SLU) Torbjörn von Schantz

9.10-9.30 Presentation of ICOS RI and ICOS Sweden

9.30-10.00 Station presentations, Degerö and Svartberget

10.00-10.30 *Coffee break*

10.30-11.40 Station presentations, Abisko-Stordalen, Lanna, Norunda and Hyltemossa

11.40-11.55 Comments from the ICOS Sweden Board and ICOS Sweden Scientific Advisory Committee

11.55-12.25 Establishment of User group and plenary discussion

12.30-13.30 *Lunch*

13.30-18.00 Norunda station visit (including coffee at site)

19.30 *Hosted dinner in Uppsala*

Tuesday 22/19

Scientific meeting

8.30-9.00 Registration and coffee

9.00-9.10 Introduction: Anders Lindroth

9.10-9.40 Invited speaker: Philippe Ciais: Title to be advertised later.

9.40-10.00 Mats Nilsson: Ten years full carbon budget from a boreal mire.

10.00-10.20 Matthias Peichl: Bringing color into the picture – using digital repeat photography to investigate phenology as a driver of the carbon dioxide exchange in a boreal mire.

10.20-10.40 Carrie McCallie: Microbes, ecosystem biogeochemistry, and climate change: dissecting methane flux in a thawing permafrost peatland in northern Sweden.

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Program (continued):

10.40-11.10 *Coffee break with posters*

11.10-11.30 Julia Drewer: Spatial variability of greenhouse gas fluxes in the footprint of the Stordalen ICOS tower.

11.30-11.50 Mathilde Mannon Jammet: Relative importance of lake methane emissions in a subarctic peatland landscape, Northern Sweden, depends on spring ice thaw.

11.50-12.10 Guy Schurgers: The importance of vertical heterogeneity for canopy photosynthesis and transpiration in Norunda.

12.10-12.30 Lars Eklundh: Remote sensing and ICOS data for regional scale carbon modeling.

12.30-13.30 *Lunch*

13.30-13.50 Stefano Manzoni: Optimization theories to link water and carbon fluxes in forest ecosystems.

13.50-14.10 Michail Heliasz: Carbon exchange processes in old-growth boreal forests.

14.10-14.30 Per-Erik Karlsson: Nitrogen deposition to coniferous forests in Sweden.

14.30-14.50 Achim Grelle: CO₂ fluxes from contrasting stump-harvested forest clear-cuts.

14.50-15.10 Tobias Rytting: Closing the nitrogen budget in arable fields to identify options for reducing fertilizer N losses.

15.10-15.40 *Coffee break with posters*

15.40-15.55 Summary and conclusions, Anders Lindroth

16.00-17.00 Poster session continued with snacks and drinks

19.30 *Dinner*

Venue: Loftet (The loft), Ultuna, SLU Uppsala, Sweden.

Contact details:

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Registration: <https://www.akademikonferens.se/icos2013>

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Getting there:

The workshop will take place at "Loftet" at Ultuna Campus of SLU, Swedish University of Agricultural Sciences, 6 km south of central Uppsala city.

You can easily get to and from Ultuna Campus by local bus number 12, 20 and 110. Buses run daily from early morning to late nights. A single ticket costs SEK 30. You can pay with credit card on the bus, or buy a ticket in advance from vending machines at the Central station and "Stora Torget", the square in the city centre. You can also buy a discount card at "Upplysningen" and at "Pressbyrån" in the city centre. Then a one way trip will cost SEK 25.

[Map](#) of Campus Ultuna with the conference hall The Loft /"Loftet" marked

[Map](#) of Uppsala with Campus Ultuna marked.

ICOS - Integrated Carbon Observation System - is a European research infrastructure to quantify and understand the greenhouse gas balance of the European continent and of adjacent regions. ICOS is a collaboration between 17 European countries and provides long-term observations (20+ years). **ICOS Sweden** is the Swedish contribution to this European effort and is a cooperation of Lund University (host), University of Gothenburg, Swedish University of Agricultural Sciences, Stockholm University, and Swedish Polar Research Secretariat. The measurement sites are located at six different sites, from north to south: Abisko-Stordalen (subarctic mire), Degerö (boreal mire), Svartberget (boreal pine and spruce forest), Norunda (boreal pine and spruce forest), Hyltemossa (boreal spruce forest) and Lanna (agricultural land).

Webpage: <http://www.icos-sweden.se/>

