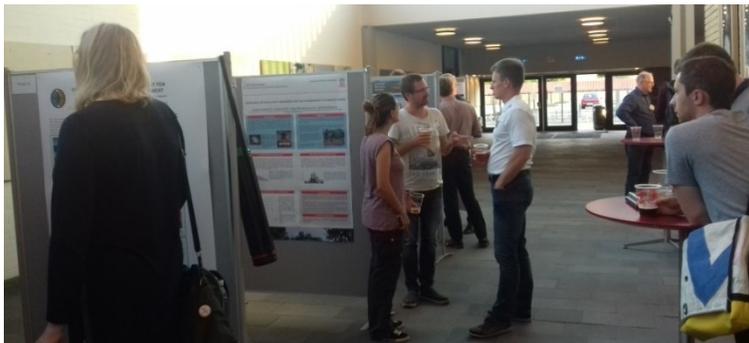


ICOS Sweden Newsletter

October 2017

First Nordic ICOS symposium 29-31 August, 2017



The first ever Nordic ICOS symposium was held by ICOS Denmark from 29th of August until 31st of August 2017 in Lyngby, Denmark. There were about 70 registered participants from 7 different countries. The focus of the symposium was to highlight the Nordic ICOS stations and the research that is currently being done at these stations. Additional activities during the symposium was a poster session, a pre-dinner talk by Timo Vesala revolving movies and climate change, a symposium dinner and a panel discussion regarding ICOS data, stakeholders and outreach.

Thank you ICOS Denmark for your hospitality and for organizing the first Nordic symposium. The next symposium is planned to take place in two years. But which country that will be next to host the upcoming symposium is still to be decided.

Kick-off meeting for Integral 4-7 september in Warnemunde



BONUS Integral (Integrated carbon and trace gas monitoring for the Baltic Sea) is an ICOS relevant project funded by Bonus call Blue Baltic. In direct response to the requirements of the European Marine Strategy Framework Directive, BONUS INTEGRAL will provide new approaches for the monitoring of marine eutrophication and acidification, and explore the integrated greenhouse gas flux as a potential new indicator for the good environmental status of the Baltic Sea. The project is coordinated by Gregor Rehder at the Baltic Sea Institute in Warnemunde and Swedish ICOS station Östergarnsholm is one of the infrastructures in the project.

3rd ICOS Science Conference, September 2018

Please save the dates for Tuesday 11th to Thursday 13th of September 2018. The conference will be organized in Prague, Czech Republic. The program is still under development, but Monday 10th and Friday 14th will probably be dedicated to excursions and side-events.

More information regarding the conference will be regularly updated on their [website](#) and a dedicated Science Conference website will be available soon.

ICOS ATC Mobile Lab visits Hyltemossa

On the 25th of September the ATCs (Atmospheric Thematic Centre) Mobile Lab visited Hyltemossa to do parallel measurements and tests in order to conduct quality controls of the measurement system at the station. The Mobile Lab, which is hosted by the Finnish Meteorological Institute in Helsinki, is a van equipped with state-of-the-art analyzers and standard gases. The ATC Mobile Lab will stay at Hyltemossa until the beginning of November will visit the stations Norunda and Svartberget in the near future. More information regarding ATCs Mobile Lab can be found [here](#).

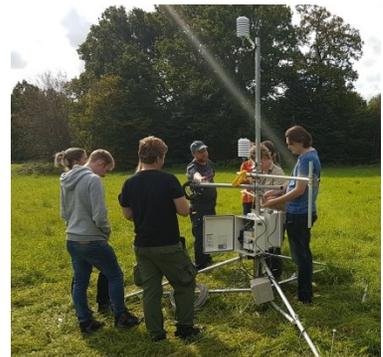


ACTRIS moves from Vavihill to Hyltemossa in October

ACTRIS is the European Research Infrastructure for the observation of aerosol, clouds and trace gases which provide with freely accessible live measurements in near time. In Sweden there are two active sites, namely Vavihill in southern Sweden and Aspövreten south of Stockholm. In the beginning of October, ACTRIS will make a dedicated effort to move most of their equipment from Vavihill to Hyltemossa ICOS infrastructure station. By combining these two infrastructures, Hyltemossa will become a ‘flagship station’ for the studies on the interaction between the atmosphere, hydrosphere and biosphere and how one part of the ecosystem processes might change another. The first instruments will be connected to the recently erected 30 m tower in order to measure the uptake and release of particles from the surrounding forest as well as the particles which originates from other countries. If you want to know more about ACTRIS, you can find it [here](#).

Field course in Ecosystem hydrology at Hyltemossa

On 18th to 26th of September, a master course called Ecosystem Hydrology at INES/LU did a field excursion to the Hyltemossa station. There were 6 participants on the course, which got the opportunity to learn about the different routines at the research station and to work with both automatic and manual measurements. Besides measurements with their own built energy balance/eddy covariance tower, the students worked with e.g. LAI measurements, photosynthesis biomass estimations and determination of the groundwater table.



Article about long-term monitoring of mires at Degerö ecosystem station

Mats Nilsson, the PI for the Degerö mire station, has been interviewed in SLU's magazine "Miljötrender" (ISSN: 1403-4743) about the measurements of the total carbon and greenhouse gas balance that has been studied at the site for almost 20 years. Mats Nilsson points out the importance mires have on the yearly release of methane and how these mires might change with climate change. If you want to read more about the Degerö mires, you can find the magazine "miljötrender" [here](#).

What research is going on at the stations? - NordSpec

NordSpec is an infrastructure which collects year-round spectral measurements for ecosystem monitoring. The aim is to capture seasonal and interannual variations in vegetation conditions. NordSpec is currently focusing on the Nordic countries, but are also measuring at Greenland, Senegal and Sudan. Within ICOS, these measurements are performed at Abisko, Degerö, Hyltemossa and Norunda. Examples of equipment used are multispectral sensors, PAR sensors and phenological cameras.



More information regarding the infrastructure can be found [here](#).

We are looking for more research examples from the different ICOS Sweden sites. If you are doing research within ICOS which you would like us to highlight, please contact Ylva van Meeningen and tell her more about your project: ylva.van_meeningen@nateko.lu.se

New PhD student at ICOS-Östergarnsholm

Lucía Gutiérrez Loza is a PhD student in Meteorology focusing on air-sea exchange processes of energy, water vapour and greenhouse gases. Lucía has a great interest in direct air-sea flux measurements and the processes influencing the interaction between the ocean and the atmosphere. Lucía is working on the measurements and data retrieved at the Swedish marine ICOS station Östergarnsholm.



New research communicator for ICOS Sweden

On the 1st of September Ylva van Meeningen started working as the new research communicator. Welcome to ICOS Sweden!

You can reach Ylva on the following e-mail: ylva.van_meeningen@nateko.lu.se

Ylva will fill in for Susanna Olsson for approximately six months whilst Susanna will partake in other projects. Good luck and welcome back next year!

