
ICOS Sweden Newsletter

June 2018

ICOS Sweden stations labelled



ICOS Sweden stations Hyltemossa, Svartberget and Norunda for atmospheric measurements, as well as the ecosystem station of Hyltemossa, were labelled ICOS stations on 31st of May. Huge effort has been made to make sure to meet the high standards of a certified ICOS measurement station, and the labelling is important, as it guarantees quality controlled and harmonized ICOS data for the users, comparable to other ICOS data. The goal is to have all the labelling in place by the end of 2019.

ICOS-labelled data and data from the not yet certified Swedish stations are available directly at the ICOS Carbon Portal or follow the links at ICOS Sweden website /data.

[Follow the labelling process at ICOS Carbon Portal](#)

ICOS Science Conference

The ICOS Science Conference, 11-13 September 2018 in Prague Czech Republic, is still open to registrations. The conference theme is greenhouse gases and biogeochemical cycles.

Note that the week after the ICOS Science Conference, there will be a IG3IS/TRANSCOM workshop in Lund. It is dedicated to the use of atmospheric measurements to improve the quantification and understanding of greenhouse gas fluxes.

[Conference web and registration](#)

Airborne measurements by CoMet

The aircraft Halo from DLR Oberpfaffenhofen have been measuring methane and CO₂ conducting airborne measurements over several ICOS RI sites as part of the CoMeT campaign.

The plane was flying over Hyltemossa and Norunda, during May and beginning of June. Representatives of the project from Max-Planck-Institut für Biogeochemie describes that the aircraft is equipped with in-situ (continuous CRDS and flask sampling) as well as Lidar instruments to measure CO₂ and CH₄ across Europe. The research group has selected current and future ICOS atmospheric sites to have Lidar overflights as well as vertical profiles for in-situ profiling. The main aim for these profiles are validation of remote sensing (airborne Lidar and satellite base column measurements), as well as validation of transport models used e.g. for inverse modeling of greenhouse gases.

[Read more about this project](#)

ICOS RINGO looking into new possibilities

RINGO, 'Readiness of ICOS for Necessities of Integrated Global Observations' is a 4-year H2020 project. RINGO has 43 partners in 19 countries and consists of 5 work packages with specific emphasis on the further development of the readiness of ICOS Research Infrastructure (ICOS RI) to foster its sustainability.

This includes increasing the usefulness of the produced data e.g. through combining with new relevant measurement variables and ecosystems, and collaboration with other RIs and interoperability with satellite data.

Read more at www.icos-ri.eu/ringo

Östergarnsholm installing ceilometer



At ICOS stations summer means work rather than vacation. The ocean station in Östergarnsholm is no exception, where a ceilometer will be installed this summer. The ceilometer functions using the LIDAR principle where short laser pulses are sent out vertically and the time of the returned reflections are measured. The

amplitude of the reflected light, the backscatter signal caused by haze, fog, mist, precipitation and clouds is measured as the laser pulses traverse the sky.

Read more at icos-sweden.se

ICOScapes to Svartberget

ICOScapes is visiting Svartberget for a photo and filming session in June. ICOScapes is a documentation tour made by wildlife photographer Konsta Punkka, who is visiting one ICOS station in each country. You can follow the work on the web, Instagram and YouTube.

[Explore ICOScapes](#)

ICOS Sweden also...

...will be in collaboration with [Climate-KIC](#) in July, when the summer school "The Journey" will visit our site in Hyltemossa, as well as have a lecture by ICOS Carbon Portal. Climate-KIC is an EU initiative for innovation for climate action.

...had a booth at the Science Festival in Gothenburg in April. Personnel from Lanna station and the coordination office represented ICOS Sweden with experiments, posters and meeting the interested public.

...is preparing for the clear cut at ICOS station Norunda, now decided to start in 2021-2022. Read more about [Norunda at icos-sweden.se](#)

...keeps the stations open for researchers who wants to use them. Contact the PI at your selected station. Read more about all stations at www.icos-sweden.se

We wish you all a great summer!