

Geoscience Day 2022

Carbon Farming and Climate Change

Tuesday 29.11.2022 9.00-13.30

Helsinki Central Library Oodi, Maijansali

Helsinki, Finland



ICOS

Integrated
Carbon
Observation
System



EU2022.CZ

PROGRAMME

9.00-9.30 Opening words

HE Mr. Adam Vojtěch, Czech Ambassador
Werner Kutsch, General Director of ICOS on behalf of EGU

9.30-11.00 Panel discussion: The possibilities of Carbon Farming from a policymaker perspective

The European Commission requires that the activities that remove carbon from the atmosphere are clearly and transparently identified. This calls for an EU certification of carbon removals. How do policymakers take this into account in their own policies for carbon farming? Can it be the solution to climate change?

Panelists:

- Jiří Jungr, Head of Unit of Renewable Energy Sources and Environmental Strategies, Czech Ministry of Agriculture
- Birgitta Vainio-Mattila, Ministerial Adviser, Finnish Ministry of Agriculture and Forestry
- Elisa Vainio, Project Manager, Baltic Sea Action Group, Carbon Action platform
- Kristiina Lång, Research Professor, Natural Resources Institute Finland (LUKE)

Moderator: Peter Buchert, Journalist at Hufvudstadsbladet

11-11.45 Light lunch and networking

Geoscience Days are an initiative of the [European Geosciences Union](#). They are organized around Europe and aim to raise awareness of the Earth, planetary and space sciences to students, the wider public and national policymakers. This edition of the Geoscience Day is organized in partnership with the [Integrated Carbon Observation system \(ICOS\)](#) and the [Czech Presidency of the Council of the European Union](#).

11.45-13 Scientific presentations (3 x 25 min, in Finnish)

11.45-12.10 Research Professor Kristiina Lång, Natural Resources Institute Finland (LUKE)

What is Carbon Farming?

The EU has made great advancements by defining the conditions for European Carbon Farming. Carbon Farming can strengthen the net carbon sinks of the member countries and help them reach their carbon neutrality goals.

12.10-12.35 Senior Research Scientist Tuomas Mattila, Finnish Environment Institute (SYKE)

Agricultural and environmental benefits of Carbon Farming

Carbon Farming can have multiple benefits. Its methods, such as crop rotation, cover crops and improved soil structure decrease soil erosion and can increase crop yields. This presentation examines how carbon farming practices change farming systems based on the first four years of the Carbon Action field experiments.

12.35-13.00 Research Coordinator Layla Höckerstedt, Finnish Meteorological Institute (FMI)

Measuring the climate impacts of Carbon Farming

Sequestering carbon into agricultural soil is one of the ways the food system can respond to the climate crisis. The enhancement of soil carbon sequestration in the food system requires detailed and reliable information on agriculture's emissions and carbon budget. FMI develops a verification methodology that takes account the additionality, stability, leaks and allows the scientifically accepted measures for carbon sequestration.

13.00-13.30 Coffee and networking

The event is open to everyone and free of charge but registrations are highly recommended. Register: icos-ri.eu/geoscienceday2022