Development of Greenhouse Gas Observations Network Within Integrated Carbon Observing System (ICOS) - Finland

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ICOS is a new European Research Infrastructure for quantifying and understanding the greenhouse balance of the European continent and of adjacent regions (http://www.icos-infrastructure.eu/). The aim is to provide the long-term atmospheric and flux observations required to understand the present state and predict future behaviour of the global carbon cycle and greenhouse gas emissions. This poster presents the ICOS contribution by Finland (http://www.icos-infrastructure.fi/). The atmospheric concentration network will be upgraded and expanded to cover all parts of Finland. Atmospheric observations are supported by relevant ecosystem scale micrometeorological flux measurements. The special focus of flux measurements are coniferous forests, wetlands and the Baltic Sea. The studies are closely linked with other trace gases and atmospheric aerosols. The poster presents future measurement network and methods to be used.



Figure 1. The Finnish ICOS sites (dark green) and complementary ecosystem flux sites (light green).