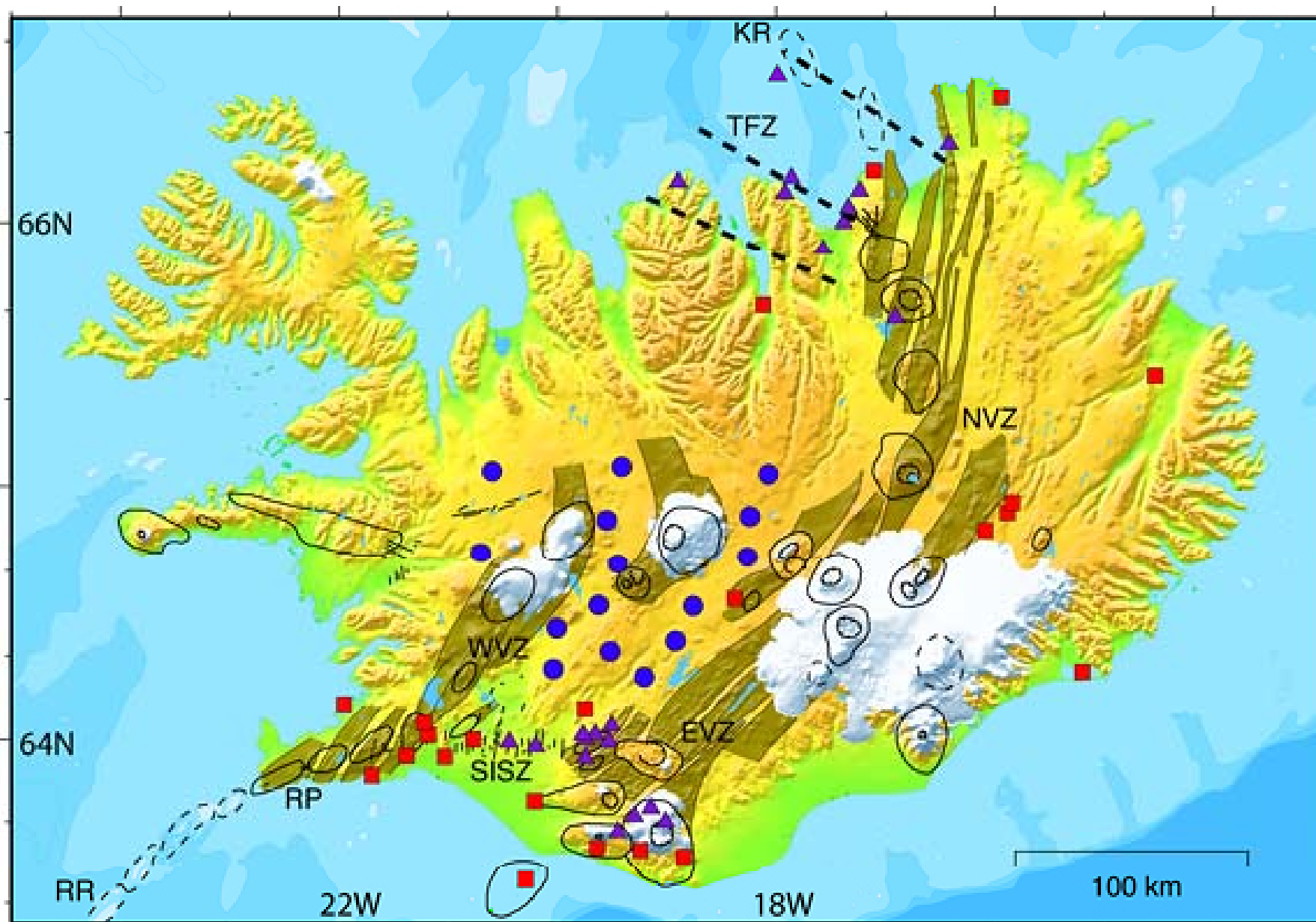
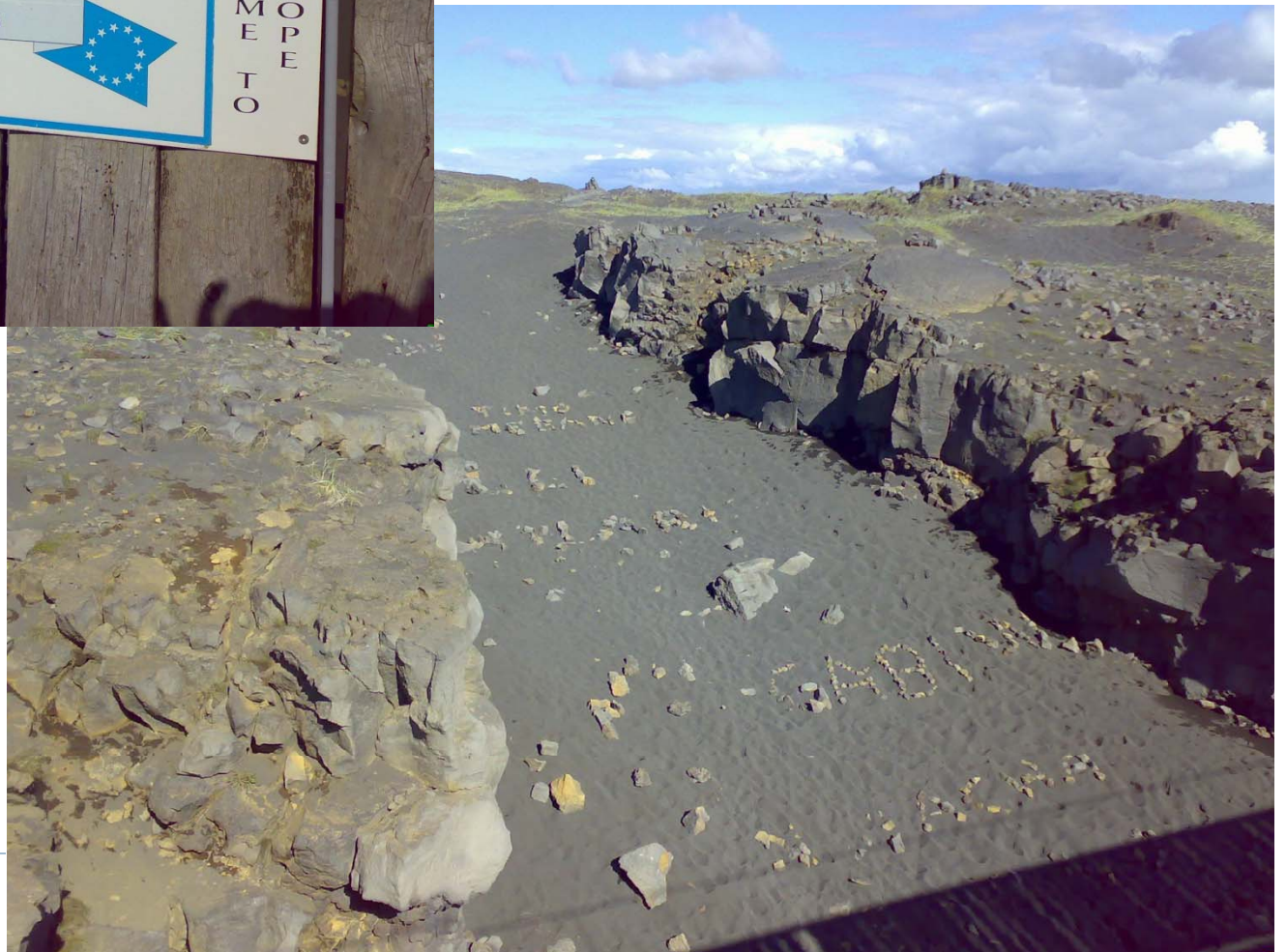




ForHot-project Hveragerði, Iceland

Presentation of the site and very first N_2O and CH_4
measurements from the temperature gradient





FORHOT

(Natural soil warming in a Sitka spruce forest in Iceland)



Earthquake in May 2008

Sitka spruce forest and grassland with 0-40 C Tsoil
elevation-----



See www.forhot.is







The ForHot pilot project

Application was sent in to Icel. Res. Council in spring 2012 – still pending...

Agric. Univ. of Iceland

- ▶ Prof. Bjarni D. Sigurdsson (coord.)
- ▶ M.Sc. Helena Marta Stefánsdóttir
- ▶ Dr. Úlfur Óskarsson
- ▶ **Elín Guðmundsdóttir (M.Sc. student)**

Icelandic Forest Research – Mogilsa

- ▶ Dr. Edda S. Oddsdóttir
- ▶ Dr. Brynhildur Bjarnadóttir

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- ▶ Prof. Kesara Anamthawat-Jónsson.
- ▶ **Ella Thoen (M.Sc. student)**

Univ. of Antwerp - Belgium

- ▶ Prof. Ivan Janssens
- ▶ **Niki Leblans (Ph.D. student)**

Basel University, Switzerland

- ▶ Prof. Kristian Körner
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Vrije University, Amsterdam, Holland

- ▶ Prof. Peter van Bodegom,
- ▶ **James T. Weedon (Ph.D. student)**

NIO-KNAW, Holland

- ▶ **Anne Daebeler (Ph.D. student)**

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- ▶ Dr. Marja Maljanen

Lund University

- ▶ Prof. Håkan Wallander
- ▶ Prof. Erland Bååth
- ▶ **Stephanie Reischke (PhD student)**
- ▶ **Magnus Ellström (PhD student)**

METLA, Finland

- ▶ Prof. Leena Finér





More studies

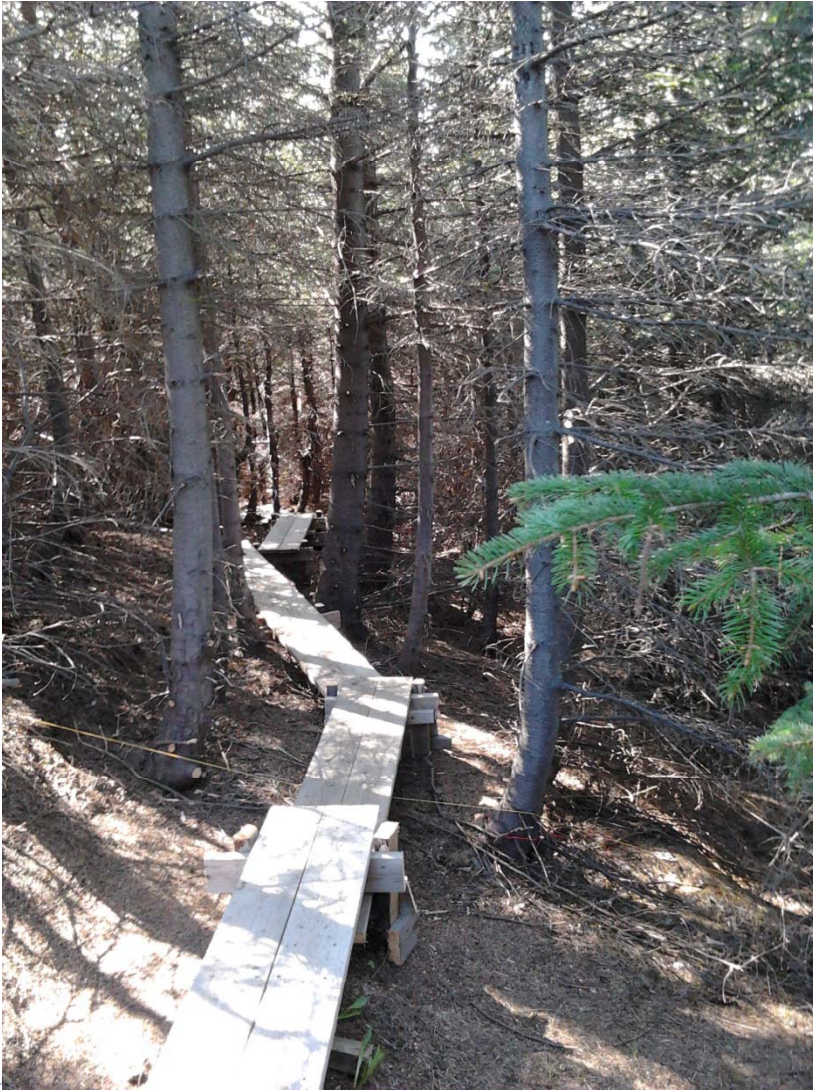
- ▶ **Elín Guðmundsdóttir** (2012-2013). Vegetation community change along T-gradients in forest and grassland. M.Sc. Study.
- ▶ **Magnus Ellström & Håkan Wallander** (2012-2013). Fungal community and fungal production w. Ts in forest (Meshbags w. C4 litter).
- ▶ **Stephanie Reischke and Erland Bååth** (2012). Soil microbe diversity w. Ts in forest/grassland. qPCR
- ▶ **James Weedon and Peter van Bodegom** (2012). Soil microbe diversity w Ts in forest/grassland. O-Pyro-sequencing.
- ▶ **Anne Daebeler** (2012). Ammonia-oxidizing archaea/bacteria in Icelandic soils
→ Old geothermal warm soils have only AOA – ForHot has also AOB



Niki Leblans – PhD student of Ivan Janssens & Bjarni D. Sigurdsson (2013-2016)
C, N and P stocks and cycles in ForHot
Stockiometry of nutrients
Plant trait changes

Marja Maljanen – M.Sc. Student working with CH₄, N₂O and CO₂ fluxes (2013)

Forest site

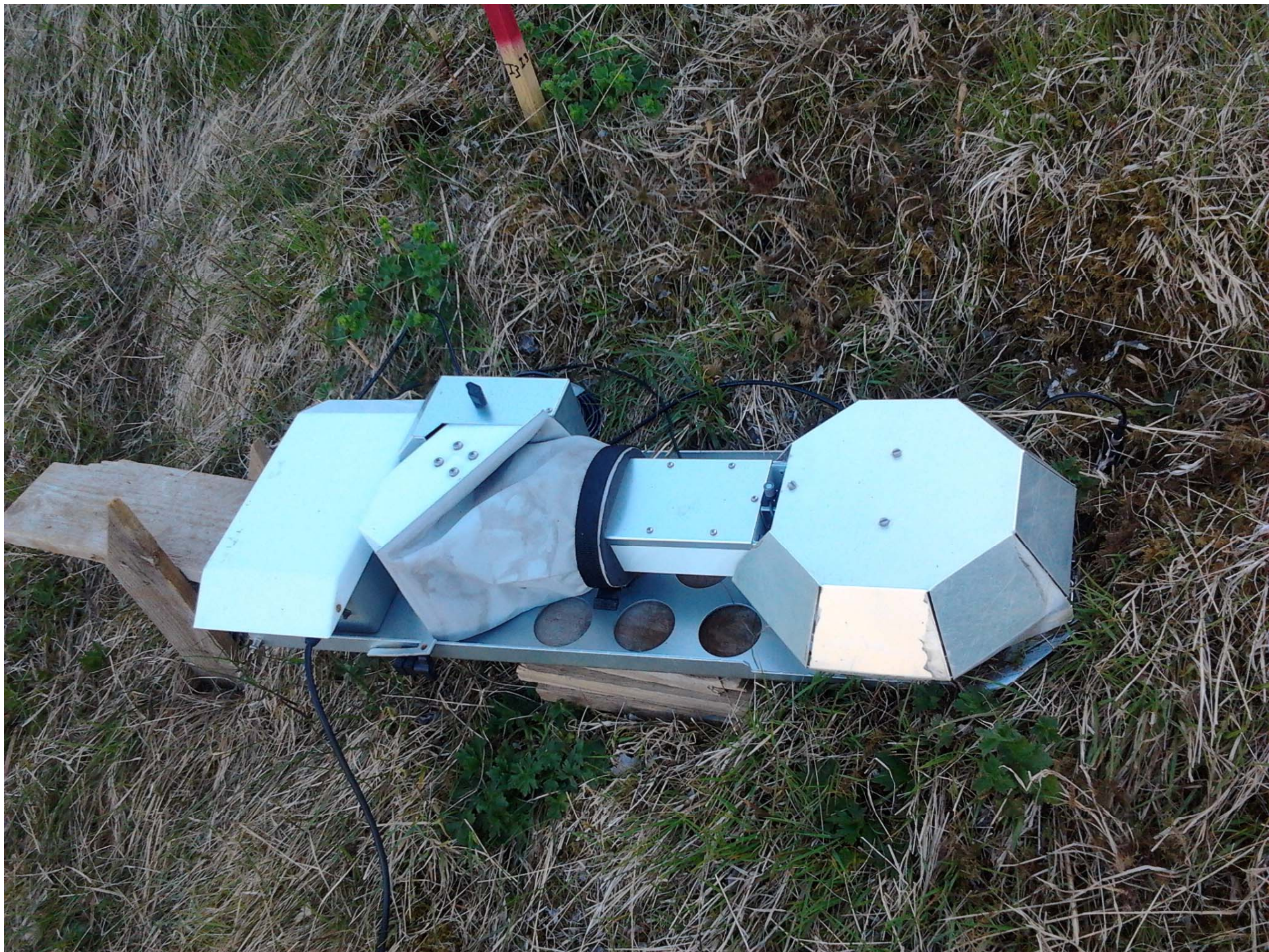


Heathland site



Gas sampling

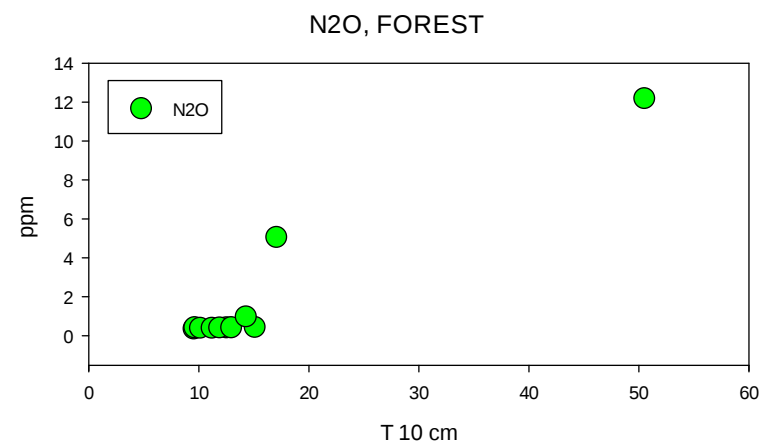
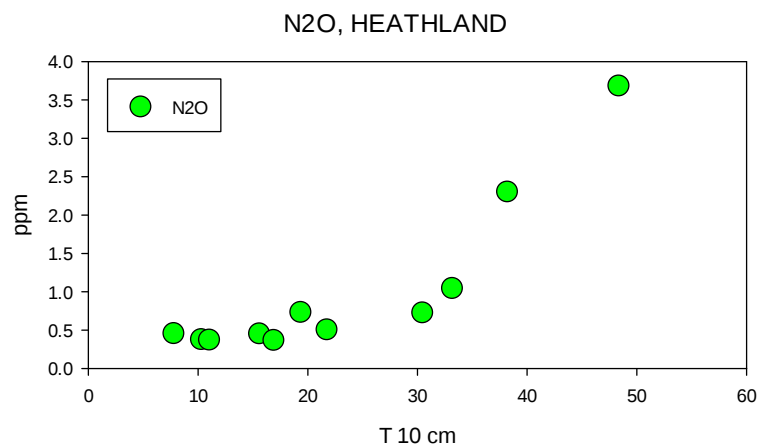
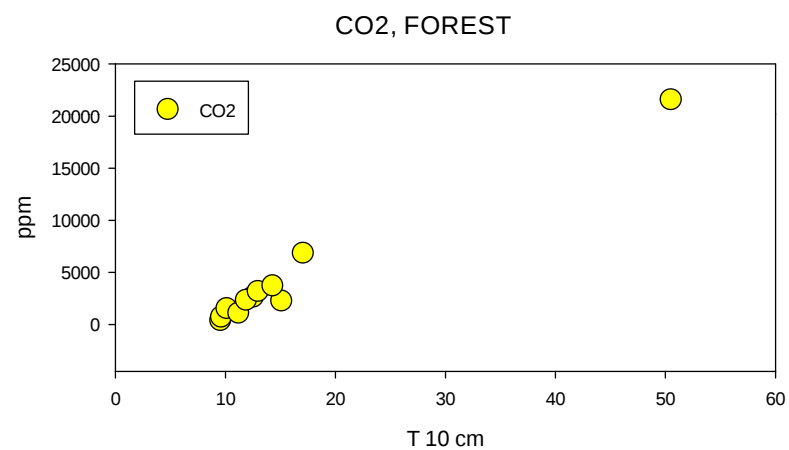
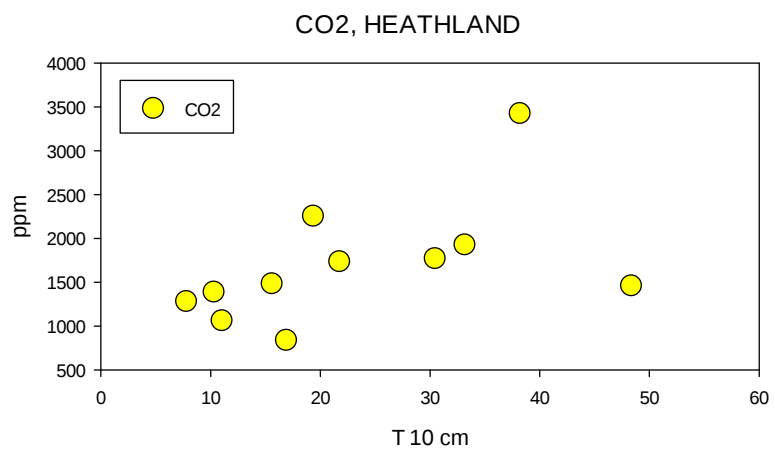
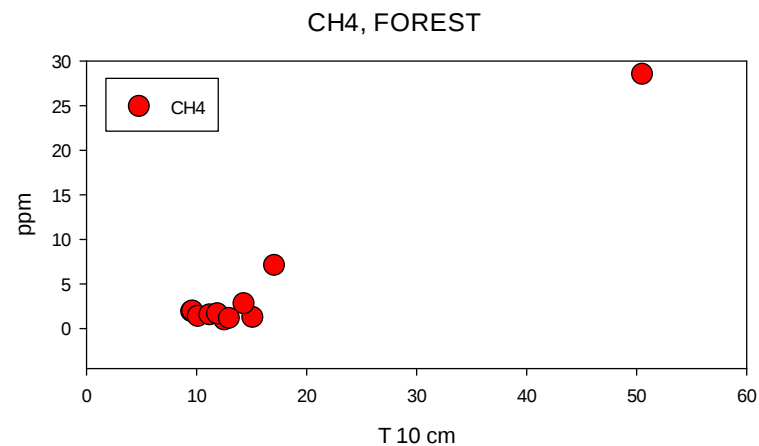
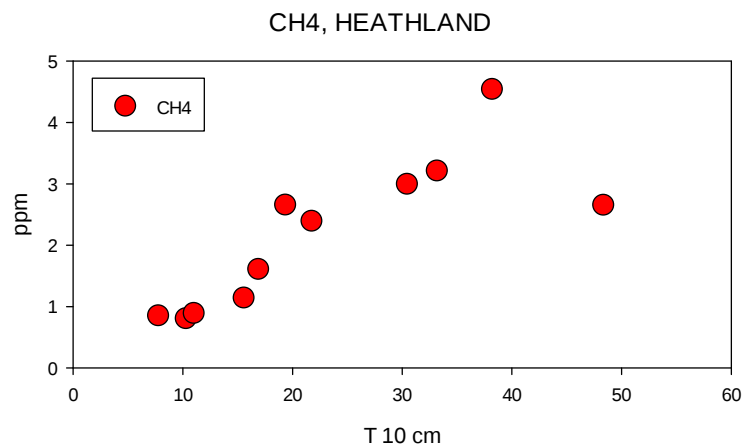




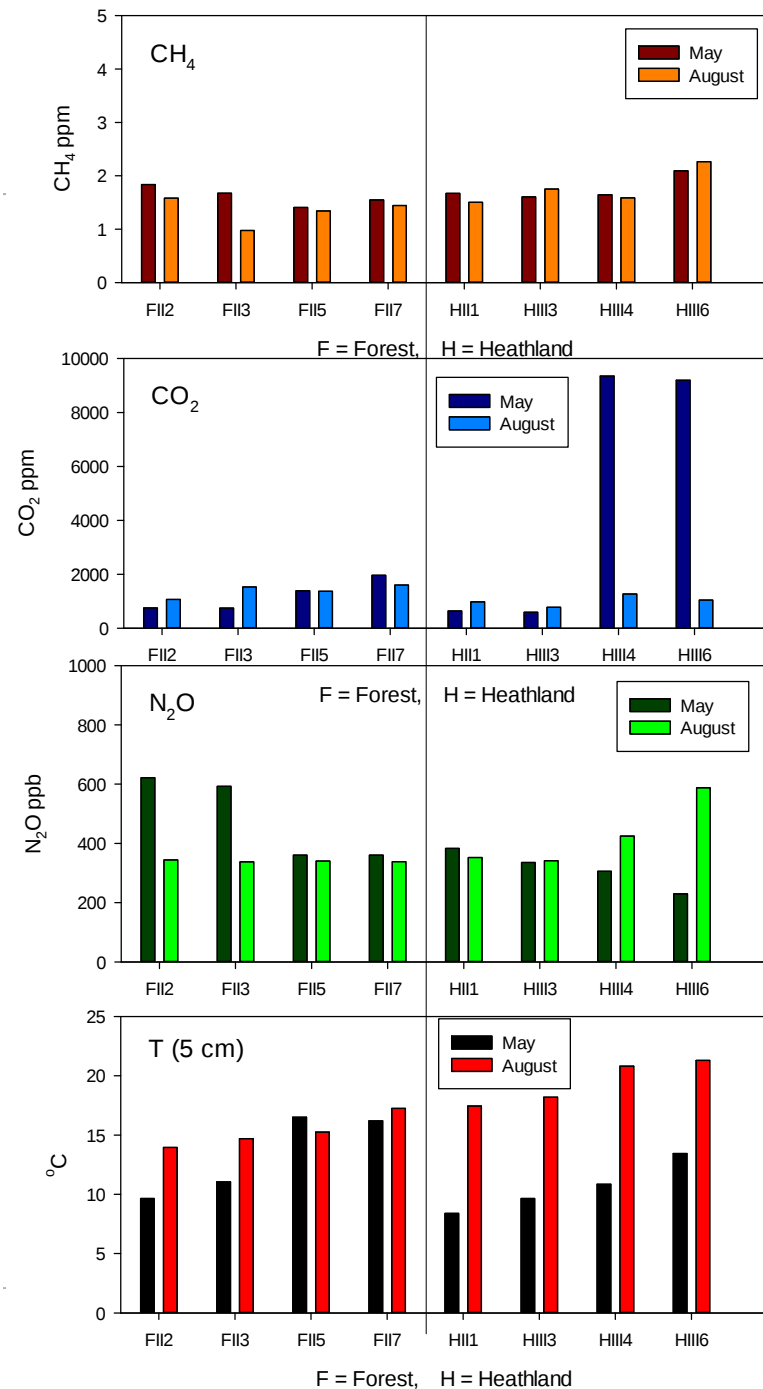


Soil gases, with soil probes, May 2012



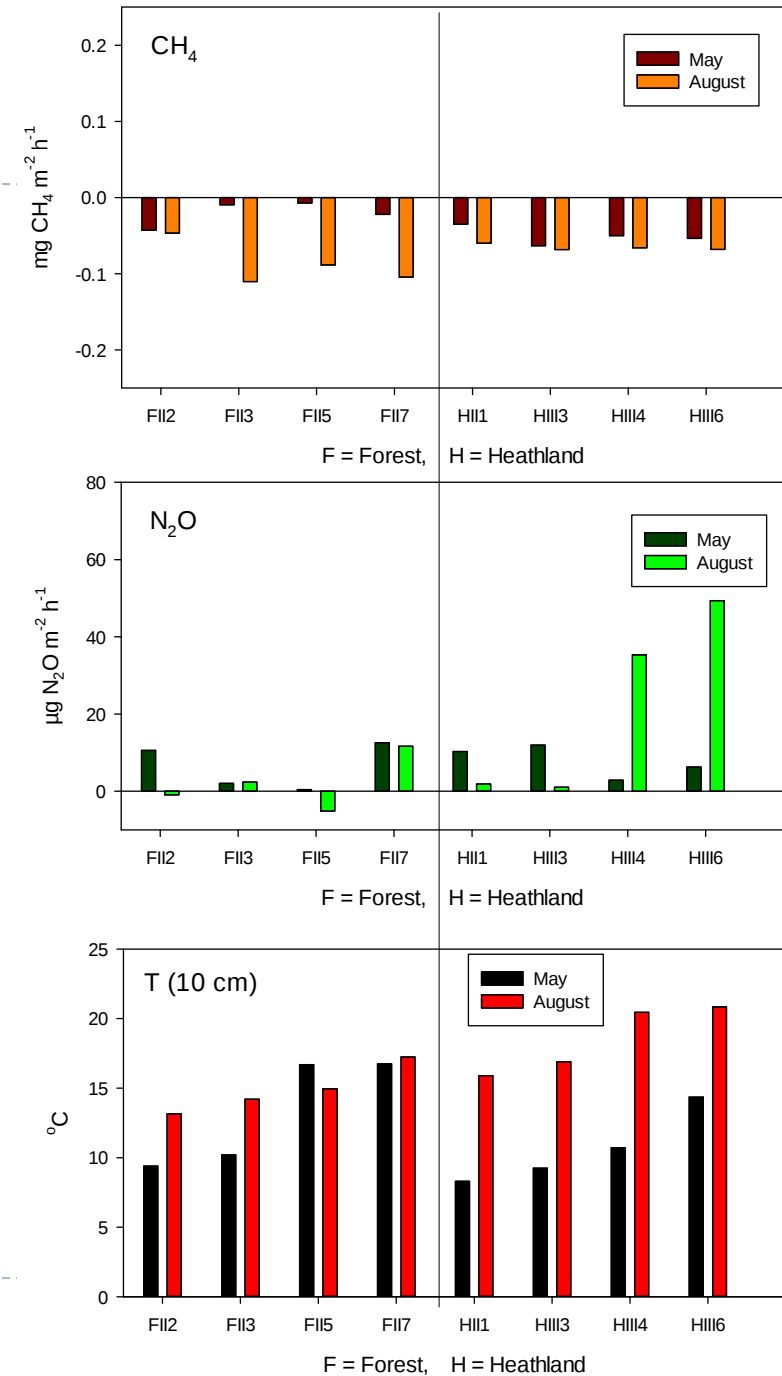


Soil gases, with silicon tubes, May and August 2012



Chamber measurements

Results from May 2012 and August 2012



To be continued....

