

PERMAFROST CARBON NETWORK: 4th Annual Meeting 2014

Agenda

Sunday, 14 December 2014 (9am – 5pm)

Location: InterContinental San Francisco, 888 Howard Street



AM (9am-12.30pm)

- 9:00-9:30 Introduction/Overview: Ted Schuur (30 min):** Introduction to the network for newcomers, update on finished products, and future direction of the network
- 9:30-10:00 C Quantity Update (30 min total), introduction by Gustaf Hugelius**
- **Hugelius:** An updated version of the Northern Circumpolar Soil Carbon Database
 - **Hugelius:** An updated estimate of the circumpolar permafrost carbon stocks, including estimate uncertainties and data gaps
 - **Hugelius/Grosse:** Spatial extent of Beringian ice-complex deposits (yedoma)
 - **Hugelius/Mishra:** An independent estimate of permafrost soil carbon based on digital soil modelling
- 10:00-10:30 C Quality Update (30 min total), introduction by Christina Schädel**
- **Schädel:** Quantifying the effect size of changing environmental controls on C release from permafrost-affected soils
 - **Treat/Natali:** A pan-Arctic synthesis of CH₄ and CO₂ production from anoxic soil incubations
 - **Jastrow:** Utility of fractionation approaches for assessing organic matter decomposability in permafrost-region soils
- 10:30-11:00** Coffee Break
- 11:00-11:20 Thermokarst Update (20 min total), introduction by Britta Sannel**
- **Hayes:** A Regionalization of the Circum-Arctic Domain to Study the Vulnerability of Permafrost Carbon to Climate Change
 - **Olefeldt:** Mapping thermokarst pre-disposition and vulnerability at the pan-arctic scale
- 11:20-11:40 Anaerobic/Aerobic Update (20 min total), introduction by David Olefeldt**
- **Olefeldt/Vonk:** Circum-arctic lability of dissolved organic carbon
 - **Wik:** Methane emission potential of pan-Arctic lakes and ponds
- 11:40-12:30 Model Integration Update (50 min total): A. David McGuire**
- **McGuire:** Overview of Modeling Integration Group Activities

- **McGuire:** Status of Retrospective Model Intercomparison Activities
- **McGuire:** Status of Future Model Intercomparison Activities
- **Koven/Schuur:** Vulnerability of Permafrost Carbon: An upscaling analysis
- **Turetsky:** Thermokarst upscaling

Lunch provided at the InterContinental (1h)

PM (1.30pm-5pm)

- 1:30-2:00** Introduction of activities of interest to the network (COUP, others)
- 2:00-2:20** Introduction into Breakout groups
- 2:20-3:50** **Afternoon breakout groups**
- 1) Modeling (led by McGuire and Lawrence)
 - 2) Carbon Pools (led by Hugelius)
 - 3) Thermokarst upscaling (led by Turetsky)
 - 4) Aerobic/Anaerobic upscaling (led by Schuur/Schädel)
- 3:50-4:10** Coffee Break
- 4:10-5:00** Breakout summary updates and roadmap outline