

Vulnerability of Permafrost Carbon RCN: Annual Meeting 2013

Agenda

Sunday, 8 December 2013 (9am – 5pm)

Location: InterContinental San Francisco, 888 Howard Street (**Ballroom C, 5th Floor**)



AM (9am-12.30pm)

- 9:00-9:30 Introduction/Overview: Ted Schuur (30 min):** Introduction to the RCN for newcomers, update on finished RCN products, and highlights of interactions between cross-cutting themes leading to the afternoon break outs
- 9:30-10:00 C Quantity Update (30 min total), introduction by Gustaf Hugelius**
- **Gustaf Hugelius:** Quantitative uncertainty ranges for the permafrost soil C pool and new work towards a circumpolar map of peat and O-horizon thickness
 - **Jens Strauss:** Deep permafrost Carbon pools of Siberia and Alaska
 - **Guido Grosse:** Refined Yedoma distribution in East and Central Siberia, Russia
- 10:00-10:30 C Quality Update (30 min total), introduction by Christina Schädel**
- **Christina Schädel/Ted Schuur:** Incubation method recommendation; Effect of environmental controls on C release from permafrost
 - **Claire Treat/Sue Natali:** The fate of permafrost soil carbon under saturated conditions: A synthesis of anaerobic incubations of permafrost soils
 - **Julie Jastrow/Chao Liang:** Chemical and Physical Fractionation of permafrost carbon
- 10:30-11:00** Coffee Break
- 11:00-11:30 Thermokarst Update (30 min total), introduction by Guido Grosse**
- **Guido Grosse:** Ongoing synthesis of spatial distribution of thermokarst and thermo-erosion features in the Arctic
 - **David Olefeldt:** Identifying and characterizing regions vulnerable to thermokarst development
 - **Dave McGuire/Helene Genet:** The Alaska Thermokarst Model
- 11:30-12:00 Anaerobic/Aerobic Update (30 min total), introduction by David Olefeldt**
- **Jorien Vonk:** Circum-arctic biodegradability of riverine dissolved OC
 - **Martin Wik:** Methane emission from lakes and ponds across climate sensitive permafrost environments
- 12:00-12:30 Model Integration Update (30 min total):**
- **Dave McGuire/Dave Lawrence/Charlie Koven:** Overview of model synthesis activities, including results from ancillary papers being developed

Lunch provided at the InterContinental (1h)

PM (1.30pm-5pm)

- 1:30-2:00** introduction of activities of interest to the network (ABoVE, NGEE, Page21, DEFROST, CYCLOPS)
- 2:00-2:20** Introduction into Breakout groups 2 and 3 by Ted Schuur and Dan Hayes (10 min each)
- 2:20-3:50** **Afternoon breakout groups**
- 1)** Model intercomparison for future climate scenarios (**lead: Dave McGuire**)
 - 2)** Roadmap of Upscaling (**lead: Ted Schuur**): Carbon Pools (3m) x thaw trajectories x incubation rates (aerob/anaerob) with discussion of wetness index
 - 3)** Maps/Mapping/Data visualization (**lead: Dan Hayes**)
- 3:50-4:10** Coffee Break
- 4:10-5:00** Breakout summary updates and roadmap outline