

# 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 CH<sub>4</sub> and CO<sub>2</sub> 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