



**9:00 – 9:45** Introduction and overview of PCN activities

Leads: Ted Schuur, Christina Schädel

**9:45 – 10:30** Synthesis updates (5 min. presentations)

**10:30 – 10:50** Coffee break

**10:50 – 12.00** Synthesis updates (5 min. presentations)

**Date:** Sunday, December 10, 2017

**Time:** 9:00 am – 5:00 pm

**Location:** New Orleans Marriott,  
555 Canal St, New Orleans, LA 70130

**Room:** TBD

## SYNTHESIS UPDATES

### Carbon Pools and Decomposability:

- **Gustaf Hugelius:** Mapping Northern peatland extent, carbon and nitrogen stocks
- **Guido Grosse:** Yedomia database
- **Guido Grosse:** ESA permafrost project
- **Yuanhe Yang:** Spatial and vertical heterogeneity of permafrost soil organic carbon stocks.
- **Jessica Ernakovich:** Thaw-induced changes to the permafrost microbiome

### Carbon Fluxes:

- **Ben Abbott/Jennifer Frederick:** Expert assessment for subsea permafrost and related emissions
- **Claire Treat:** Non-growing season methane fluxes from high-latitude ecosystems
- **Eugenie Euskirchen:** Bottom-up CO<sub>2</sub> flux synthesis
- **Sue Natali:** Non-growing season flux synthesis
- **McKenzie Kuhn:** Methane-centric land-cover product for predicting current and future methane emissions

### Vegetation:

- **Heather Kropp/Mike Loranty:** Air-soil temperature decoupling across vegetation types

### Modeling/Benchmarking:

- **Dave Lawrence/Charlie Koven:** Updates on modeling activities
- **Christina Schädel:** Site specific data-model comparison
- **Kevin Schaefer:** The International Land Model Benchmarking project
- **Irina Overeem:** Permafrost modeling toolbox

### Hydrology/Lateral transport:

- **Jon O'Donnell:** Dissolved organic matter composition of waters draining permafrost landscapes
- **Christian Andresen:** Permafrost-hydrology MIP
- **Erin Trochim:** Surface water analysis for pan-Arctic permafrost

**Soil data hackathon:** Jen Harden



<b>12:00 – 1:00</b>	<b>Lunch at the Marriott</b> Provided by PCN/SEARCH and ISCN for registered participants
<b>1:00 – 1:30</b>	<b>Introduction of new research opportunities, ideas, projects, networks of interest to the PCN</b>
<b>1:30 – 2:45</b>	<b>1<sup>st</sup> Breakout</b>
<b>2:45 – 3:00</b>	<b>Coffee break</b>
<b>3:00 – 4:15</b>	<b>2<sup>nd</sup> Breakout</b>
<b>4:15 – 5:00</b>	<b>Wrap-Up and Outlook</b>

### BREAKOUT TOPICS

We will have two rounds of breakout discussions on the following topics (subject to change):

- **Data hacking: Recovering the long tail of soils data**  
All afternoon, organized by Jennifer Harden and Kathe Todd-Brown, details can be found here: <http://iscn.fluxdata.org/event/hackathon2017/>
- **Expert assessment for subsea permafrost**
- **Microbes and permafrost**
- **Bottom-up CO<sub>2</sub> flux synthesis**
- **Remote sensing related topics**
- **Thermokarst related topics**
- **Model Integration related topics**
- **Hydrology related topics**
- **Methane related**