

Session Programme CR1.5 - “Permafrost in Transition”

16:15 - Opening & Introduction

16:20 - Theme 1) Permafrost landscape changes

Moderator: Gabriela Schaeppman-Strub

- **Keynote:** Ko van Huissteden et al. - Climate change and the carbon cycle of frozen floodplains
- Roxanne Frappier & Denis Lacelle - Ice-wedge polygons distribution, morphometry and state in the Tombstone Territorial Park, Central Yukon, Canada
- Rúna Magnússon et al. - Shrub decline and expansion of wetland vegetation in a Siberian lowland tundra site

16:45) - Theme 2) Greenhouse gas fluxes from permafrost ecosystems

Moderator: Rúna Magnússon

- Robert Grant - Climate change impacts on CO₂ and CH₄ exchange in an Arctic polygonal tundra depend on changes in vegetation and drainage
- Joshua Dean et al. - Siberian Arctic inland waters emit mostly contemporary carbon
- Han Dolman et al. - The carbon budget of a tundra in the north-eastern Russian Arctic during the snow free season and its stability in the 2003-2016 period (*presented by Joshua Dean*).
- Livio Ruggiero et al. - SourcE and impact of greeNhousE gasses in AntartciCA: the Seneca project

17:10 - Theme 3) Local biogeochemical controls on greenhouse gas fluxes

Moderator: Juul Limpens

- Monique Patzner et al. - Organic carbon sorbed to reactive iron minerals released during permafrost collapse
- Maria Scheel et al. - Microbial life in collapsing permafrost in NE Greenland
- Nathalie Kashi et al. - Nutrients unlocked from permafrost thaw affect microbial methane metabolism
- Peter Stimmmer - Future Arctic soil nutrient availability and microbial community structure

17:35 - General Discussion

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### Chat procedure:

The chat moderators are Juul Limpens (Wageningen University), Rúna Magnússon (Wageningen University) and Gabriela Schaeppman-Strub (University of Zurich). Participants will be muted during general announcements. During the rest of the chat session, all participants can enter questions and comments.

During the display presentations, please refer to the panel on the right side of the chat window to find the corresponding display. As a presenter, you will be unmuted to introduce your topic while participants have the opportunity to look at your display. Afterwards, all participants will be unmuted for questions and interaction. Please reply to others using the “@”.