

**Where to Find Ecosystem at AGU
Dec 9 – 14, 2018**

*rooms are in Walter Washington Convention Center, unless otherwise noted

SUNDAY, 9 DECEMBER

Scientific Workshop: 8th Annual Meeting of the Permafrost Carbon Network (registered participants only)

Session number: WS31

Time: Sunday, 9 December 2018; 9:00 am – 4:00pm

Location: Grand Hyatt, 1000 H St NW, Room: Independence FGHI

Ecosystem members: Christina Schaedel, Ted Schuur, organizers

MONDAY, 10 DECEMBER

U.S. International Arctic Science Committee (IASC) Town Hall: An Overview and Discussion on IASC Research, Engagement Activities, and Associated Opportunities

Session number: TH15K

Time: Monday, 10 December 2018: 18:15 - 19:15

Location: Marriott Marquis, Archives room

Ecosystem member: Michelle Mack

The Resilience and Vulnerability of Arctic and Boreal Ecosystems to Climate Change I

Session Number: B11A

Time: Monday, 10 December 2018; 08:00 - 10:00

Location: 143A-C

Ecosystem member: Michelle Mack (convener)

Vulnerability of boreal forest legacy carbon to combustion increases with shortened fire return intervals

Session number: B11A-06

Time: Monday, 10 December 2018 09:15 - 09:30

Location: 143A-C

Ecosystem member: Xanthe Walker, Michelle Mack, Edward Schuur

Rate variation in moss associated N fixation across a diverse group of host species in Alaska is driven by moss type and latitudinal location – eLightning Talk

Session number: U13B-20

Time: Monday, December 10; 13:40-15:40 presentation @ 14:38

Location: eLightning Theater I

Ecosystem member: Julia Stuart



Drivers, Interactions, and Timescales for Carbon and Water Fluxes in semiarid ecosystems

Session number: B13C-06

Time: Monday, 10 December, 14:55-15:10

Location: 149AB

Ecosystem member: Kimberly Samuels-Crow, Kiona Ogle

The Resilience and Vulnerability of Arctic and Boreal Ecosystems to Climate Change II

Session Number: B12C

Time: Monday, 10 December 2018; 10:20 - 12:20

Location: 143A-C

Ecosystem member: Michelle Mack (convener)

The Resilience and Vulnerability of Arctic and Boreal Ecosystems to Climate Change III

Session Number: B13E

Time: Monday, 10 December 2018; 13:40 - 15:40

Location: 143A-C

Ecosystem member: Michelle Mack

The Resilience and Vulnerability of Arctic and Boreal Ecosystems to Climate Change IV

Session Number: B14C

Time: Monday, 10 December 2018; 16:00 - 18:00

Location: 143A-C

Ecosystem member: Michelle Mack



TUESDAY, 11 DECEMBER

The Resilience and Vulnerability of Arctic and Boreal Ecosystems to Climate Change V

Session Number: B21E

Time: Tuesday, 11 December; 08:00-10:00

Location: 143A-C

Ecosystem member: Michelle Mack

Vulnerability of Permafrost Carbon to Climate Change I

Session Number: B22D

Time: Tuesday, 11 December; 10:20 - 12:20

Location: 143A

Ecosystem members: Christina Schaedel, Ted Schuur

Effects of permafrost thaw and changes in soil moisture on CH₄ and CO₂ fluxes in Alaskan upland tundra

Session number: B22D-03

Time: Tuesday, 11 December; 10:50 - 11:05

Location: 143A-C

Ecosystem members: Meghan Taylor, Ted Schuur

Near Term Proximity of Temperature Tipping Points for the Terrestrial Biosphere

Session number: B22C-04

Time: Tuesday, 11 December; 11:05-11:20

Location: 150A

Ecosystem member: Katharyn Duffy

Soil respiration and decomposition of soil organic carbon under a long-term field warming

Session number: B23G-2606

Time: Tuesday, 11 December 2018: 13:40 - 18:00

Location: Hall A-C (Poster Hall)

Ecosystem member: Chang Gyo Jung


Permafrost Carbon Network: Synthesis Science and Outreach

Session number: PA23F-1050

Time: Tuesday, 11 December 2018, 13:40 – 18:00

Location: Hall A-C (Poster Hall)

Ecosystem member: Christina Schaedel



WEDNESDAY, 12 DECEMBER

Workshop: Studying Biological Impacts of Environmental Change Using Repeat Photography: Introduction to PhenoCam Data Products and Software Tool

Session number: WS17

Time: Wednesday, 12 December; 8:00 – 12:00

Location: Grand Hyatt: Lafayette Park/Farragut Square

Ecosystem members: Bijan Seyednasrollah, Katharyn Duffy

Vulnerability of Permafrost Carbon to Climate Change II Posters

Session number: B31E

Time: Wednesday, 12 December 2018; 08:00 - 12:20

Location: Hall A-C (Poster Hall)

Ecosystem members: Christina Schaedel, chair; Anthony Garnello, Heidi Rodenhizer, Marguerite Mauritz, Elaine Pegoraro

Inter-annual Variation in Radiocarbon Age of Ecosystem Respiration Exceeds Permafrost Warming Effects

Poster number: B31E-2492

Ecosystem member: Elaine Pegoraro

Numerical Modeling of Historical and Projected Permafrost Soil Temperatures with Carbon Flux Implications

Poster number: B31E-2493

Ecosystem Member: Anthony Garnello

Using the Relationship Between Active Layer Thickness and Subsidence to Constrain Permafrost Thaw

Poster number: B31E-2494

Ecosystem Member: Heidi Rodenhizer

Old soil carbon decomposition is underestimated when plant productivity and surface soil decomposition are high

Poster number: B31E-2496

Ecosystem member: Marguerite Mauritz

Drivers of trembling aspen (*Populus tremuloides*) mortality and productivity decline in boreal forests of Interior Alaska

Poster number: B31F-2556

Ecosystem member: Melissa Boyd


The role of ectomycorrhizae in Arctic shrub expansion: Opposing effects of warming and fertilization on fungal community and function.

Session number: B33O-2895

Time: Wednesday, 12 December; 13:40 - 18:00

Location: Hall A-C (Poster Hall)

Ecosystem member: Haley Dunleavy



Connecting People, Infrastructure and Permafrost Information in Alaska

Session number: GC31B-02

Time: Wednesday, 12 December 2018 08:15 - 08:30

Location: Walter E Washington Convention Center - Salon A

EcoSS member: Ted Schuur



THURSDAY, 13 DECEMBER

Increasing disturbance in Arctic and boreal ecosystems: local mechanisms and global consequences

Session number: B41B-10

Time: Thursday, 13 December 2018; 09:12 - 09:20

Location: 143A-C

Ecosystem member: Michelle Mack

Unpacking the Soil Respiration Black Box: Growth of Individual Bacterial Populations Scales with CO₂ Flux Differently Across Soils from Forested, Shrub, and Grassland Ecosystems

Session Number: B42D

Time: Thursday, 13 Dec: 10:20 - 12:20 am, est. presentation time: 11:05 - 11:20 am

Location: 150A

Ecosystem member: Bram Stone

Mycobiont contribution to tundra plant acquisition of permafrost-derived nitrogen

Session number: B43M

Time: Thursday, 13 December 2018; 13:40 - 18:00

Location: Hall A-C (Poster Hall)

Ecosystem member: Rebecca Hewitt

Arctic and Boreal Carbon: Key Findings from the State of the Carbon Cycle Report

Session number: B43C-08

Time: Thursday, 13 December 2018; 14:16 - 14:23

Location: 150A

Ecosystem member: Ted Schuur



FRIDAY, 14 DECEMBER

From -omics to the Earth System: Bridging Scales to Improve our Understanding of Earth System Function and Response I

Session number: B51A

Time: Friday, 14 December, 8:00-10:00 AM

Location: 149AB

Ecosystem member: Katharyn Duffy (convener)

Moss associated N fixation rates in Alaska are uncorrelated with the photosynthetic activity or the natural abundance ^{15}N signatures of the host mosses

Session number: B51D-02

Time: Friday, December 14, 8:15-8:30 AM

Location: 150B

Ecosystem member: Julia Stuart

PhenoSynth: An Open Source Shiny(R) User Interface to Investigate Phenology Across Spatial and Temporal Scales

Session Number: B51H-2021

Time: Friday, 14 December, 8:00-12:20

Location: Hall A-C

Ecosystem member: Katharyn Duffy

Testing Iso/Anisohydry as a Plant-Environment Interaction in *Larrea tridentata*

Session number: B51I-2054

Time: Friday Dec 14, 8:00 - 12:20

Location: Hall A-C (Poster Hall)

Ecosystem member: Jessica Guo, George Koch

Town Hall: Where Does Arctic Research and SEARCH Go Next?

Session number: TH53K

Time: Friday, 14 December 2018 12:30 - 13:30

Location: Marriott Marquis - Independence D

Ecosystem member: Ted Schuur