

# TES Supported University Posters and Talks AGU 2018

## **Abstract**

B22D-03 Effects of permafrost thaw and changes in soil moisture on CH and CO fluxes in Alaskan upland tundra

***Meghan Taylor***

**Tuesday, 11 December 2018**

**10:50 - 11:05**

*Walter E Washington Convention Center - 143A-C*

## **Abstract**

B31E-2492 Inter-annual Variation in Radiocarbon Age of Ecosystem Respiration Exceeds Permafrost Warming Effects

***Elaine Pegoraro***

**Wednesday, 12 December 2018**

**08:00 - 12:20**

*Walter E Washington Convention Center - Hall A-C (Poster Hall)*

## **Abstract**

B31E-2493 Numerical Modeling of Historical and Projected Permafrost Soil Temperatures with Carbon Flux Implications

***Anthony Garnello***

**Wednesday, 12 December 2018**

**08:00 - 12:20**

*Walter E Washington Convention Center - Hall A-C (Poster Hall)*

## **Abstract**

B31E-2494 Using the Relationship Between Active Layer Thickness and Subsidence to Constrain Permafrost Thaw

***Heidi Rodenhizer***

**Wednesday, 12 December 2018**

**08:00 - 12:20**

*Walter E Washington Convention Center - Hall A-C (Poster Hall)*

## **Abstract**

B31E-2496 Old soil carbon decomposition is underestimated when plant productivity and surface soil decomposition are high

***Marguerite Mauritz***

**Wednesday, 12 December 2018**

**08:00 - 12:20**

*Walter E Washington Convention Center - Hall A-C (Poster Hall)*

## **Abstract**

B43C-08 Arctic and Boreal Carbon: Key Findings from the State of the Carbon Cycle Report

***Edward Schuur***

**Thursday, 13 December 2018**

**14:16 - 14:23**

*Walter E Washington Convention Center - 150A*

## **Workshop**

**WS31** 8th Annual Meeting of the Permafrost Carbon Network

**Sunday, 9 December 2018**

**08:00 - 16:00**

*Grand Hyatt - Independence FGHI*

## **Abstract**

**B42D-07B** Microbial carbon efficiency but not soil physical protection creates a negative climate feedback over long-term warming

Xiao-Jun Allen Liu

**Thursday, 13 December 2018**

**11:00-11:15**

*Walter E Washington Convention Center - 150A*

## **Abstract**

**A43N-3309** Satellite Measurements of Carbonyl Sulfide Constrain Model Estimates of Tropical Carbon Uptake

James Stinecipher

**Thursday, 13 December 2018**

**13:40 - 18:00**

*Walter E Washington Convention Center - Hall A-C (Poster Hall)*

## **Abstract**

**B33B-05** The FACE Wood Decomposition Experiment: Understanding Processes Regulating Carbon Transfer to Soil Carbon Pools Using FACE Wood at Multiple Scales

Carl Trettin

**Wednesday, 12 December 2018**

**14:40 - 14:55**

*Walter E Washington Convention Center - 150A*

## **Abstract**

**B13G-2216** Modeling Coarse Woody Debris Decomposition in Forests

Z. Dai

**Monday, 10 December 2018**

**13:40 - 18:00**

*Walter E Washington Convention Center - Hall A-C (Poster Hall)*

## **Abstract**

**B31N-2676** Linkage between SIF and GPP in a seasonally-dormant high-elevation subalpine forest

David Bowling

**Wednesday, 12 December 2018**

**8:00 - 12:20**

*Walter E Washington Convention Center - Hall A-C (Poster Hall)*

## **Abstract**

**B43C-06** A Synthesis across the Major Components of the North American Carbon Budget

Dan Hayes

**Thursday, 13 December 2018**

**13:40 - 15:40**

*Walter E Washington Convention Center – 150A*

**Abstract**

**B13G-2218** Tree stems methane emissions research: a path forward

Josep Barba

**Monday, 10 December 2018**

**13:40 - 18:00**

*Walter E Washington Convention Center - Hall A-C (Poster Hall)*

**Abstract**

**B13G-2214** Controls of Tree CH<sub>4</sub> Emissions: Hourly, Daily, and Seasonal Comparisons over Two Years

**Monday, 10 December 2018**

**13:40 - 18:00**

*Walter E Washington Convention Center - Hall A-C (Poster Hall)*

**Abstract**

**B42C-02** Modeling tidal marsh carbon cycling under sea level rise and elevated CO<sub>2</sub>

Anthony Rietl

**Thursday, 13 December 2018**

**10:35 - 10:50**

*Walter E Washington Convention Center – 147B*

**Abstract**

**B43G-2937** Considering coasts: Adapting terrestrial models to characterize coastal habitats

Teri O'Meara

**Thursday, 13 December 2018**

**13:40 - 18:00**

*Walter E Washington Convention Center - Hall A-C (Poster Hall)*

**Abstract**

**B52A-04** Warming and elevated CO<sub>2</sub> have opposing effects on coastal wetland plant growth and biogeochemical cycling

Genevieve Noyce

**Friday, 14 December 2018**

**11:05 - 11:20**

**Abstract**

**B43-03** Coupling of soil carbon, organic phosphorus, and amorphous minerals along wet tropical forest rainfall gradient

Yang Lin

**Thursday, 13 December 2018**

**14:15 - 14:30**

*Walter E Washington Convention Center – 150B*

**Abstract**

**B21F-06** Evaluating a Microbial Functional Group-based Model to Explain Greenhouse Gas Productions and Consumptions from Puerto Rican Tropical Forest Soils

Debjani Sihi

**Tuesday, 11 December 2018**

**8:16 - 8:19**

*Walter E Washington Convention Center – eLightning Theater 1*

**Abstract**

**B23K-2681** Shrub expansion introduces new sets of root trait in the Arctic

Weile Chen

**Tuesday, 11 December 2018**

**1:40 - 6:00**

*Walter E Washington Convention Center - Hall A-C (Poster Hall)*

**Abstract**

**B41K-2856** Biomass Partitioning to Absorptive Roots in the Context of Multiple Resource Limitation

David Eissenstat

**Thursday, 13 December 2018**

**8:00 - 12:20**

*Walter E Washington Convention Center - Hall A-C (Poster Hall)*

**Abstract**

**B43M** Soil warming and elevated CO<sub>2</sub> effects on CH<sub>4</sub> production pathways and homoacetogenesis in a northern Minnesota peatland

Cory Leeways

**Thursday, 13 December 2018**

**13:40 - 18:00**

*Walter E Washington Convention Center - Hall A-C (Poster Hall)*

**Abstract**

**B43M** Examining Anaerobic Oxidation of Methane in an Experimentally Warmed Northern Ombrotrophic Peat Bog

Laura McCullough

**Thursday, 13 December 2018**

**13:40 - 18:00**

*Walter E Washington Convention Center - Hall A-C (Poster Hall)*

**Abstract**

**B43M** How do Whole-Ecosystem Warming and Elevated Atmospheric Carbon Dioxide Concentration Affect Peatland Methane Production?

Anya Hopple

**Thursday, 13 December 2018**

**13:40 - 18:00**

*Walter E Washington Convention Center - Hall A-C (Poster Hall)*

**Abstract**

**B52A** Effects of temperature on natural organic matter reduction in a northern Minnesota peatland experiencing whole ecosystem warming

Jason Keller

**Friday, 14 December 2018**

**11:50 - 12:05**

*Walter E Washington Convention Center – 150A*

**Abstract**

**B23H-2632** Interactions between Litter and Soil Chemistry Drives Carbon Substrate Preference of Microbial Communities

Nannette Christine Raczka

**Tuesday, 11 December 2018**

**13:40 - 18:00**

*Walter E Washington Convention Center - Hall A-C (Poster Hall)*

**Abstract**

**B51A-04** Integrating -omics data into soil organic matter decomposition models

Edward Brzostek

**Friday, 14 December 2018**

**8:36 - 8:48**

*Walter E Washington Convention Center – 149B*

**Abstract**

**B52C-02** Tropical soil fertility increases leaf turnover, not greenness

Joshua Fisher

**Friday, 14 December 2018**

**10:35 - 10:50**

*Walter E Washington Convention Center – 147B*

**Abstract**

**B23G-2601** Nitrogen fertilization increases carbon use efficiency of soil microbial communities across 10 long-term N fertilization studies

Joseph Carrara

**Tuesday, 11 December 2018**

**13:40 - 18:00**

*Walter E Washington Convention Center - Hall A-C (Poster Hall)*

**Abstract**

**B31D-04** The pulse-reserve paradigm and explaining dryland function: past, present, and future

Sasha Reed

**Wednesday, 12 December 2018**

**8:45 - 9:00**

*Walter E Washington Convention Center – 150A*

**Abstract**

**B31D-05** Biocrust CO<sub>2</sub> cycle in a cool desert ecosystem: pulsed loss in the hot season, sustained uptake through the cool wet season

Colin Tucker

**Wednesday, 12 December 2018**

**9:00 - 9:15**

*Walter E Washington Convention Center – 150A*

**Abstract**

**B52A-03** Effects of increased temperature on C cycling of a wet tropical forest: Initial results from a novel field warming experiment in Puerto Rico across 10 long-term N fertilization studies  
Tana Wood

**Friday, 14 December 2018**

**10:50 - 11:05**

*Walter E Washington Convention Center – 150A*

**Abstract**

**B51C-01** Warming effects on litter decomposition and carbon cycling in a tropical forest  
Stephanie Roe

**Friday, 14 December 2018**

**8:00 – 8:12**

*Walter E Washington Convention Center – 147B*

**Abstract**

**B53J-2200** Warmer temperature affects the capacity of fine-root production to recover after a hurricane event in a tropical rain forest in Puerto Rico

Daniela Yaffar

**Friday, 14 December 2018**

**13:40 – 18:00**

*Walter E Washington Convention Center - Hall A-C (Poster Hall)*

**Abstract**

**B43A-06** Overcoming Nutrient Limitation: Will Phosphorus Availability Constrain Global Plant Production Under Elevated CO<sub>2</sub>?

Cory Cleveland

**Thursday, 13 December 2018**

**14:05 - 14:20**

*Walter E Washington Convention Center – 150B*

**Abstract**

**B13D-07** The effects of nutrient fertilization on belowground allocation in tropical dry forests: linking results from a model and an experiment

Xiangtao Xu

**Monday, 10 December 2018**

**15:10 - 15:25**

*Walter E Washington Convention Center – 150B*

**Abstract**

**B52C-03** Variation in soil nutrients shape tropical dry forest structure, function, and recovery  
Annette Trierweiler

**Friday, 14 December 2018**

**10:50 - 11:05**

*Walter E Washington Convention Center – 147B*

**Abstract**

**B43A-04** Nutrient Constraints on Carbon Cycling in Seasonally Dry Tropical Forest

Jennifer Powers

**Thursday, 13 December 2018**

**14:30 - 14:50**

*Walter E Washington Convention Center – 150B*

**Abstract**

**B53J-2199** Tropical dry forest's responses to drought depend upon soil nutrient availability and plant community composition

German Vargas

**Friday, 14 December 2018**

**13:40 - 18:00**

*Walter E Washington Convention Center - Hall A-C (Poster Hall)*

**Abstract**

**B41G-2782** Peatland methane emission driven by interaction of soil temperature and water table

Rachel Lonchar

**Thursday, 13 December 2018**

**8:00 - 12:20**

*Walter E Washington Convention Center - Hall A-C (Poster Hall)*