

Verity G. Salmon, PhD

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Biological and Environmental Systems Science Directorate • Climate Change Science Institute
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EDUCATION

2011- 2016 PhD, Biology Department at University of Florida, College of Liberal Arts and Sciences
2005-2009 Bachelor of Arts in Biology (magna cum laude) at Boston University, College of Arts and Sciences

RESEARCH & PROFESSIONAL EXPERIENCE

Sept 2019- present • Research & Development Staff, Oak Ridge National Lab (Oak Ridge, TN)
Research supported Next Generation Ecosystem Experiment- Arctic ([NGEE-Arctic](#)) and
Spruce & Peatland Responses Under Changing Climate ([SPRUCE](#))

Nov 2016- Sept 2019 • Postdoctoral Researcher, Oak Ridge National Lab (Oak Ridge, TN)
Supervised by Dr. Colleen Iversen

Sept 2011- Aug 2016 • Doctoral Research, University of Florida (Gainesville, FL)
Doctoral Research supervised by Dr. Edward Schuur within the Carbon in Permafrost Experimental
Heating research funded by DOE TES program, Bonanza Creek LTER and Denali National Park

Sept 2009- Sept 2011 • Research Assistant, Marine Biological Laboratory (Woods Hole, MA)
Technician for Dr. Gaius Shaver with research based at Toolik Lake LTER

SKILLS

Use of stable isotopes (tracers & natural abundance) for mechanistic understanding of the nitrogen cycle
Implementation and interpretation of manipulative field experiments
Use of R programming language (data processing, graphing, statistics, mapping)
Leading remote field campaigns while maintaining the safety and well-being of all team members
Experience working with large, multiyear datasets for analysis, archival and publication
Interdisciplinary research with scientists from academia, national laboratories, and national park system

SCIENCE SERVICE, COORDINATION & COMMUNICATION

[Reviewer](#) for Oecologia, Ecosystems, Journal of Ecology, Biogeochemistry, Global Change Biology, Arctic,
Antarctic, and Alpine Research, New Phytologist, Plant and Soil, PLOS One, Functional Ecology,
Ecology, Ecosphere, Global Biogeochemical Cycles, Journal of Experimental Botany

[Permafrost Carbon Network](#) Steering Committee Member (2021- present)

[Center for Improvement of Mentored Experiences in Research \(CIMER\)](#) trained facilitator for “Entering
mentoring” curriculum (2023)

Co-lead of DOE “Modex workshop” introducing Arctic empiricists to the earth system model ELM through
interactive coding exercises (Oct 2023)

ORNL highlight by Stephanie G Seay “[Verity Salmon: Investigating carbon cycles at the top of the world](#)”

Reviewer for DOE Office of Science Graduate Student Research Program (2018-2021)

Reviewer for DOE Environmental System Science Funding Opportunity (DE-FOA-0001855, 2018)

Contributor to NGEE Arctic Phase III research proposal (Successful; May 2019)

AGU Research Spotlight by A. Sidder “[How Nitrogen contributes to permafrost carbon dynamics](#)”

Participant in 2018 Alan Alda Flame Challenge: What is Climate? [ORNL video submission](#)

Public seminar entitled “Beneath our Feet: Plants & Soils on the Seward Peninsula.” Strait Science Series at University of Alaska Northwest Campus, Nome, AK (2018)
Author of report for Mary’s Igloo Native Corporation summarizing research on native land (2018 & 2019)
Guest lecturer for Montclair State University, graduate level course (2017 & 2018)
Author of Denali National Park [Factsheet on carbon in permafrost](#) (2016)

FELLOWSHIPS AND AWARDS

2019	NGEE Arctic Field Safety & Logistics Award
2016	Department of Energy Science Student Travel Fellowship (\$500)
2015	University of Florida, Graduate Student Council Travel Grant (\$350)
2015	University of Florida, College of Liberal Arts and Sciences Travel Grant (\$300)
2015	Department of Energy Science Student Travel Fellowship (\$500)
2014	University of Florida, College of Liberal Arts and Sciences Travel Grant (\$300)
2014	Permafrost Young Researchers Network Travel Grant (\$500)
2013	Discover Denali Research Fellowship through Denali National Park (\$6,000)
2011	Graduate Student Fellowship, University of Florida (tuition and stipend)
2009	Biology Department Honors Thesis Work for Distinction, Boston University
2008-2009	Funded Research Opportunity Grants, UROP, Boston University (\$1,000)

PUBLICATIONS ([google scholar](#), [orcid.org/0000-0002-2188-551X](#))

VG Salmon, Rogers A, Childs J, Ely K, Serbin S, Spencer B, Lewin K, Norby R, Iversen CM. One growing season of warming increases soil nutrient availability but not plant nitrogen uptake: insight into shifting belowground trait dynamics. *In Revision*.

Schore AIG, Fraterrigo JM, **Salmon VG**, Yang D, Lara MJ. Nitrogen fixing shrubs advance the pace of tall-shrub expansion in low-Arctic tundra. *Submitted*

Rodenhizer H, Natali SM, Mauritz M, Taylor M, Celis G, Kadej S, Kelley A, Lathrop E, Ledman J, Pegoraro E, **Salmon VG**, Schädel C, See C, Webb E, and Schuur EAG. 2023. Abrupt Permafrost Thaw Drives Spatially Heterogeneous Soil Moisture and Carbon Dioxide Fluxes in Upland Tundra. *Global Change Biology*. *DOI pending*

Conroy N, Heikoop J, Lathrop E, Musa D, Newman B, Xu C, McCaully R, Ardent C, **Salmon VG**, Romanovsky V, Bennett K, Wilson C, and Wullschleger S. 2023. Environmental Controls on Observed Spatial Variability of Soil Pore Water Geochemistry in Small Headwater Catchments Underlain with Permafrost. *The Cryosphere*. *DOI pending*

Taş N, Conejo N, & **Salmon VG**. 2023. Metagenomes and Metagenome-Assembled Genome Sequences from Nitrogen-Fixing Alder Nodules. *Microbiology Resource Announcements*, 12(5), e01266-22. <https://doi.org/10.1128/mra.01266-22>

CC Cleveland, Reis CRG, Perakis SS, Dynarski KA, Batterman SA, Crews TE, Gei M, Gundale MJ, Menge DNL, Peoples MB, Reed SC, **Salmon VG**, Soper FM, Taylor BN, Turner MG, and Wurzbarger N. 2022. Exploring the role of cryptic nitrogen fixers in terrestrial ecosystems: An important frontier in N cycling research. *Ecosystems*. <https://doi.org/10.1007/s10021-022-00804-2>

EAG Schuur, Abbott B, Commane R, Ernakovitch J, Euskirchen E, Hugelius G, Grosse G, Jones M, Koven C, Leshyk V, Lawrence D, Loranty M, Maurtiz M, Olefeldt D, Natali S, Rodenhizer H, **Salmon VG**, Schädel, Strauss J, Treat C, and Turestky M. 2022. Permafrost and Climate Change: Carbon Cycle Feedbacks from a Warming

Arctic. Annual Review of Environment and Resources. <https://doi.org/10.1146/annurev-environ-012220-011847>

BW Abbott, Brown M, Carey JC, Ernakovich J, Frederick JM, Guo L, Hugelius G, Lee RM, Loranty MM, Macdonald R, Mann PJ, Natali SM, Olefeldt D, Pearson P, Rec A, Robards M, **Salmon, VG**, Sayedi SS, Schädel C, ... Zolkos S. 2022. We Must Stop Fossil Fuel Emissions to Protect Permafrost Ecosystems. *Frontiers in Environmental Science*, 10. <https://www.frontiersin.org/article/10.3389/fenvs.2022.889428>

McCaully RE, Arendt C, Newman BD, **Salmon VG**, Heikoop JM, Wilson CJ, Sevanto S, Wales NA, Perkins GB, Marina OC, Wullschleger SD. 2022. High nitrate variability on an Alaskan permafrost hillslope dominated by alder shrubs. *The Cryosphere*. <https://doi.org/10.5194/tc-16-1889-2022>

Iversen CM, Latimer J, Brice DJ, Childs J, Vander Stel HM, Defrenne CE, Graham J, Griffiths NA, Malhotra A, Norby RJ, Oleheiser KC, Phillips JR, **Salmon VG**, Sebestyen SD, Yang X, Hanson PJ. 2022. Whole-Ecosystem Warming Increases Plant-Available Nitrogen and Phosphorus in an Ombrotrophic Bog. *Ecosystems*. <https://doi.org/10.1007/s10021-022-00744-x>

Freschet GT, Pagès L, Iversen CM, Comas LH, Rewald B, Roumet C, Klimešová J, Zadworny M, Poorter H, Postma JA, Adams TS, Bagniewska-Zadworna A, Blancaflor EB, Brunner I, Cornelissen JHC, Garnier E, Gessler A, Hobbie SE, Lambers H, Meier IC, Mommer L, Picon-Cochard C, Rose L, Ryser P, Scherer-Lorenzen M, Soudzilovskaia NA, Stokes A, Sun T, Valverde-Barrantes OJ, Weemstra M, Weigelt A, Wurzbürger N, York LM, Batterman SA, Bengough AG, Gomes de Moraes M, Janeček Š, **Salmon VG**, Tharayil N & McCormack ML. 2021. A starting guide to root ecology: strengthening ecological concepts and standardizing root classification, sampling, processing and trait measurements. *New Phytologist*. <https://doi.org/10.1111/nph.17572>

Euskirchen ES, Serbin SP, Carman TB, Fraterrigo JM, Genet H, Iversen CM, **Salmon VG**, McGuire AD. 2021. Assessing Dynamic Vegetation Model Parameter Uncertainty Across Alaskan Arctic Tundra Plant Communities. *Ecological Applications*. <https://doi.org/10.1002/eap.2499>

Yang D, Morrison BD, Hantson W, Breen AL, McMahon A, Li Q, Salmon VG, Hayes DJ, Serbin SP. 2021. Landscape-scale characterization of Arctic tundra vegetation composition, structure, and function with a multi-sensor unoccupied aerial system. *Environmental Research Letters*, 16(8), <https://doi.org/10.1088/1748-9326/ac1291>

Salmon VG, Brice DJ, Bridgman S, Childs J, Graham J, Griffiths NA, Hofmockel K, Iversen CM, Jicha TM, Kolka RK, Kostka J, Malhotra A, Norby RJ, Phillips JR, Ricciuto DR, Schadt CW, Sebestyen SD, Shi X, Walker AP, Warren JM, Weston DJ, Yang X, Hanson PJ. 2021. Nitrogen and phosphorus cycling in an ombrotrophic peatland: A benchmark for assessing change. *Plant Soil*. <https://doi.org/10.1007/s11104-021-05065-x>

Sulman BN, **Salmon VG**, Iversen CM, Breen A, Yuan F, Thornton P. 2021. Integrating new Arctic plant functional types in a land surface model by leveraging above- and belowground field observations. *JAMES* <https://doi.org/10.1029/2020MS002396>

Mekonnen ZA, Riley WJ, Grant RF, **Salmon VG**, Iversen CM, Biraud S, Breen AL, Lara MJ. 2021. Topographical controls on hillslope-scale hydrology drive shrub distributions on the Seward Peninsula, Alaska. *Journal of Geophysical Research: Biogeosciences* <https://doi.org/10.1029/2020JG005823>

Rocha A, Appel R, Bret-Harte MS, Euskirchen E, **Salmon VG**, Shaver G. 2021. Solar position confounds the relationship between ecosystem function and vegetation indices derived from solar and photosynthetically active radiation fluxes. *Agricultural and Forest Meteorology*. <https://doi.org/10.1016/j.agrformet.2020.108291>

Kropp H, Loranty MM, Natali SM, Kholodov AL, Rocha AV, Myers-Smith I, Abermann J, Blanc-Betes E, Blok D, Blume-Werry G, Boike J, Breen AL, Cahoon SMP, Christiansen CT, Douglas TA, Epstein HE, Frost GV, Goeckede

M, Høye TT, Mamet SD, O'Donnell JA, Olefeldt D, Phoenix GK, **Salmon VG**, Sannel ABK, Smith SL, Sonnentag O, Vaughn LS, Williams M, Elberling B, Gough L, Hjort J, Lafleur PM, Euskirchen ES, Heijmans MMPD, Humphreys ER, Iwata H, Jones BM, Jorgenson MT, Grünberg J, Kim Y, Laundre J, Mauritz M, Michelsen A, Schaepman-Strub G, Tape KD, Ueyama M, Lee B-Y, Langley K, Lund M. 2020. Shallow soils are warmer under trees and tall shrubs across Arctic and Boreal ecosystems. *Environmental Research Letters* <https://doi.org/10.1088/1748-9326/abc994>

Yang D, Meng R, Morrison BD, McMahon A, Hantson W, Hayes DJ, Breen AL, **Salmon VG**, Serbin SP. 2020. A Multi-Sensor Unoccupied Aerial System Improves Characterization of Vegetation Composition and Canopy Properties in the Arctic Tundra. *Remote Sensing* <https://doi.org/10.3390/rs12162638>

Salmon VG, Breen AL, Kumar J, Lara MJ, Thornton PE, Wulschleger SD, Iversen CM. 2019. Alder Distribution and Expansion Across a Tundra Hillslope: Implications for Local N Cycling. *Frontiers in Plant Science* <https://doi.org/10.3389/fpls.2019.01099>

Plaza C, Pegoraro E, Bracho R, Celis G, Crummer K, Hutchings J, Hicks Pries C, Mauritz M, Natali SM, **Salmon VG**, Schädel C, Webb E, Schuur EAG. 2019. Direct observation of permafrost degradation and rapid soil carbon loss in tundra. *Nature Geoscience*. <https://doi.org/10.1038/s41561-019-0387-6>

van Gestel NC, Natali SM, Andriuzzi WS, Chapin FS, Ludwig S, Moore JC, Pressler Y, **Salmon VG**, Schuur EAG, Simpson R, Wall DH. 2019. Chapter 15 “Long-term warming research in high-latitude ecosystems: Responses from polar ecosystems and implications for future climate.” In J. E. Mohan (Ed.), *Ecosystem Consequences of Soil Warming: Microbes, Vegetation, Fauna and Soil Biogeochemistry*. Academic Press. <https://doi.org/10.1016/B978-0-12-813493-1.00016-8>

Mauritz M, Celis G, Ebert C, Hutchings J, Ledman J, Natali SM, Pegoraro E, **Salmon VG**, Schädel C, Taylor M, Schuur EAG. 2018. Using Stable Carbon Isotopes of Seasonal Ecosystem Respiration to Determine Permafrost Carbon Loss. *Journal of Geophysical Research: Biogeosciences* <https://doi.org/10.1029/2018JG004619>

Schädel C, Koven C, Lawrence DM, Celis G, Garnello AJ, Hutchings J, Mauritz M, Natali SM, Pegoraro E, Rodenhizer H, **Salmon VG**, Taylor M, Webb EE, Wieder WR, Schuur EAG. 2018. Divergent patterns of experimental and model-derived permafrost ecosystem carbon dynamics in response to Arctic warming. *Environmental Research Letters* <https://doi.org/10.1088/1748-9326/aae0ff>

Salmon VG, Schädel C, Bracho R, Pegoraro E, Celis G, Mauritz M, Mack MC, Schuur EAG. 2018. Adding depth to our understanding of nitrogen dynamics in permafrost soils. *Journal of Geophysical Research: Biogeosciences* <https://doi.org/10.1029/2018JG004518>

Liang J, Xia J, Shi Z, Jiang L, Ma S, Lu X, Mauritz M, Natali SM, Pegoraro E, Penton CR, Plaza C, **Salmon VG**, Celis G, Cole JR, Konstantinidis KT, Tiedje JM, Zhou J, Schuur EAG, and Luo Y. 2018. Biotic responses buffer warming-induced soil organic carbon loss in Arctic tundra. *Global Change Biology* <https://doi.org/10.1111/gcb.14325>

Celis G, Mauritz M, Bracho R, **Salmon VG**, Webb EE, Hutchings JA, Natali SM, Schädel C, Crummer KG, Schuur EAG. 2017. Tundra is a consistent source of CO₂ at a site with progressive permafrost thaw during 6 years of chamber and eddy covariance measurements. *Journal of Geophysical Research: Biogeosciences* <http://dx.doi.org/10.1002/2016JG003671>

Mauritz M, Bracho R, Celis G, Hutchings JA, Natali SM, Pegoraro E, **Salmon VG**, Schädel C, Webb EE, Schuur EAG. 2017. Non-linear CO₂ flux response to seven years of experimentally induced permafrost thaw. *Global Change Biology* <https://dx.doi.org/10.1111/gcb.13661>

Salmon VG, Soucy P, Mauritz M, Celis G, Natali SM, Mack MC, Schuur EAG. 2016. Nitrogen availability increases in a tundra ecosystem during five years of experimental permafrost thaw. *Global Change Biology* <https://dx.doi.org/10.1111/gcb.13204>

Deane-Coe KK, Mauritz M, Celis G, **Salmon VG**, Crummer KG, Natali SM, Schuur EAG. 2015. Experimental Warming Alters Productivity and Isotopic Signatures of Tundra Mosses. *Ecosystems* <https://doi.org/10.1007/s10021-015-9884-7>

Natali SM, Schuur EAG, Mauritz M, Schade JD, Celis G, Crummer KG, Johnston C, Krapek J, Pegoraro E, **Salmon VG**, Webb EE. 2015. Permafrost thaw and soil moisture driving CO₂ and CH₄ release from upland tundra. *Journal of Geophysical Research: Biogeosciences* <https://doi.org/10.1002/2014JG002872>

Shaver GR, Rastetter EB, **Salmon VG**, Street LE, van de Weg MJ, Rocha A, van Wijk MT, Williams M. 2013. Pan-Arctic modelling of net ecosystem exchange of CO₂. *Philosophical Transactions of the Royal Society B: Biological Sciences* <https://doi.org/10.1098/rstb.2012.0485>

van de Weg MJ, Shaver GR, **Salmon VG**. 2013. Contrasting effects of long term versus short-term nitrogen addition on photosynthesis and respiration in the Arctic. *Plant Ecology* <https://doi.org/10.1007/s11258-013-0250-6>

SHARED DATA PRODUCTS

Iversen CM, Brice DJ, Childs J, Vander Stel HM, **Salmon VG**. 2021. SPRUCE S1 Bog Production of Newly Grown Fine Roots Assessed Using Root Ingrowth Cores in 2013. Oak Ridge National Laboratory, TES SFA, U.S. Department of Energy, Oak Ridge, Tennessee, U.S.A. <https://doi.org/10.25581/spruce.091/1782483>

Salmon VG, Childs J, Iversen CM, Spencer B, Rogers A, Ely K, Serbin S. 2021. Vegetation Warming Experiment: 15N Uptake Experiment *Arctagrostis latifolia* 15N Uptake, Utqiagvik (Barrow), Alaska, 2018. Next Generation Ecosystem Experiments Arctic Data Collection, Oak Ridge National Laboratory, U.S. Department of Energy, Oak Ridge, Tennessee, USA. <https://doi.org/10.5440/1784751>.

Salmon VG, Childs J, Iversen CM, Spencer B, Rogers A, Ely K, Serbin S. 2021. Vegetation Warming Experiment: 15N Uptake Experiment Water-Extractable Soil Nutrients, Utqiagvik (Barrow), Alaska, 2018. Next Generation Ecosystem Experiments Arctic Data Collection, Oak Ridge National Laboratory, U.S. Department of Energy, Oak Ridge, Tennessee, USA. <https://doi.org/10.5440/1784755>.

Salmon VG, Childs J, Iversen CM, Spencer B, Rogers A, Ely K, Serbin S. 2021. Vegetation Warming Experiment: 15N Uptake Experiment *Arctagrostis latifolia* Root Traits, Utqiagvik (Barrow), Alaska, 2018. Next Generation Ecosystem Experiments Arctic Data Collection, Oak Ridge National Laboratory, U.S. Department of Energy, Oak Ridge, Tennessee, USA. <https://doi.org/10.5440/1784749>.

Salmon VG, Childs J, Iversen CM, Spencer B, Rogers A, Ely K, Serbin S. 2021. Vegetation Warming Experiment: 15N Uptake Experiment *Arctagrostis latifolia* Biomass and Chemistry, Utqiagvik (Barrow), Alaska, 2018. Next Generation Ecosystem Experiments Arctic Data Collection, Oak Ridge National Laboratory, U.S. Department of Energy, Oak Ridge, Tennessee, USA. <https://doi.org/10.5440/1784750>.

Salmon VG, Childs J, Iversen CM, Spencer B, Rogers A, Ely K, Serbin S. 2021. Vegetation Warming Experiment: 15N Uptake Experiment Inorganic Nitrogen and Phosphorus on Resins, Utqiagvik (Barrow), Alaska, 2018. Next Generation Ecosystem Experiments Arctic Data Collection, Oak Ridge National Laboratory, U.S. Department of Energy, Oak Ridge, Tennessee, USA. <https://doi.org/10.5440/1784752>

Salmon VG, Childs J, Iversen CM, Spencer B, Rogers A, Ely K, Serbin S. 2021. Vegetation Warming Experiment: 15N Uptake Experiment Arctagrostis latifolia Canopy Traits, Utqiagvik (Barrow), Alaska, 2018. Next Generation Ecosystem Experiments Arctic Data Collection, Oak Ridge National Laboratory, U.S. Department of Energy, Oak Ridge, Tennessee, USA. <https://doi.org/10.5440/1784759>

Salmon VG, Childs J, Iversen CM, Spencer B, Rogers A, Ely K, Serbin S. 2021. Vegetation Warming Experiment: 15N Uptake Experiment Environmental Observations and Thaw Depth, Utqiagvik (Barrow), Alaska, 2018. Next Generation Ecosystem Experiments Arctic Data Collection, Oak Ridge National Laboratory, U.S. Department of Energy, Oak Ridge, Tennessee, USA. <https://doi.org/10.5440/1784757>.

Salmon VG, Iversen CM, Childs JC. 2021. NGEA Arctic Plant Traits: Fine Roots, Kougurok Road Mile Marker 64, Seward Peninsula, Alaska, 2016. Next Generation Ecosystem Experiments Arctic Data Collection, Oak Ridge National Laboratory, U.S. Department of Energy, Oak Ridge, Tennessee, USA. <https://doi.org/10.5440/1735941>

Salmon VG, Iversen CM, Breen A, Vander Stel H, Childs JC. 2019. NGEA Arctic Plant Traits: Plant Aboveground Biomass, NPP and Traits, Kougurok Road Mile Marker 64, Seward Peninsula, Alaska, beginning 2016. Next Generation Ecosystem Experiments Arctic Data Collection, Oak Ridge National Laboratory, U.S. Department of Energy, Oak Ridge, Tennessee, USA. <https://doi.org/10.5440/1346199>

Salmon VG, Iversen CM, 2019. NGEA Arctic Plant Traits: Nodule Biomass, Kougurok Road Mile Marker 64, Seward Peninsula, Alaska, 2017. Next Generation Ecosystem Experiments Arctic Data Collection, Carbon Dioxide Information Analysis Center, Oak Ridge National Laboratory, Oak Ridge, Tennessee, USA. <https://doi.org/10.5440/1493669>

Salmon VG, Iversen CM, 2019. NGEA Arctic Plant Traits: Nitrogen fixation, Kougurok Road Mile Marker 64, Seward Peninsula, Alaska, 2017-2018. Next Generation Ecosystem Experiments Arctic Data Collection, Carbon Dioxide Information Analysis Center, Oak Ridge National Laboratory, Oak Ridge, Tennessee, USA. <https://doi.org/10.5440/1493688>

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Iversen CM, Breen A, **Salmon VG**, Vander Stel H, Wullschlegel S. 2019. NGEA Arctic Plant Traits: Vegetation Plot Locations, Ecotypes, and Photos, Kougurok Road Mile Marker 64, Seward Peninsula, Alaska, 2016. Next Generation Ecosystem Experiments Arctic Data Collection, Carbon Dioxide Information Analysis Center, Oak Ridge National Laboratory, Oak Ridge, Tennessee, USA. <https://doi.org/10.5440/1346196>

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Experiments Arctic Data Collection, Carbon Dioxide Information Analysis Center, Oak Ridge National Laboratory, Oak Ridge, Tennessee, USA. <https://doi.org/10.5440/1346198>

Salmon VG, Schuur EAG. 2018. Eight Mile Lake Research Watershed, Carbon in Permafrost Experimental Heating Research (CiPEHR): Off Plot Soil Incubation by Depth I - Soil Properties and Final Microbial Biomass 2013-2014. <http://dx.doi.org/10.6073/pasta/8c8a28a8d8ed4f443cb75ed00aabd647>

Salmon VG, Schuur EAG. 2018. Eight Mile Lake Research Watershed, Carbon in Permafrost Experimental Heating Research (CiPEHR): Off Plot Soil Incubation by Depth II - Soil CO₂ Fluxes 2013-2014. <http://dx.doi.org/10.6073/pasta/42154f55124b9774632094ff6242f7d3>

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Salmon VG, Natali S, Schuur EAG. Six years of plot level NDVI from EML Site in Healy, AK. 2015. Bonanza Creek LTER data archives. <http://dx.doi.org/10.6073/pasta/3ff42c06e62ce1bad1df8c2745429fd8>

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