



LI-7200
Publications List

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- Acosta, R. (2019). Estimativas das interações biosfera-atmosfera em ecossistema de pastagem natural do bioma Pampa PhD Thesis, Universidade Federal de Santa Maria.
- Adkison, C. E. (2020). Utilizing High Temporal Resolution Stable Isotope, Sap-Flux, and Eddy Covariance Measurements to Partition Daily Evapotranspiration in an Oak Woodland PhD Thesis.
- Adorf, L., L. Bronkalla, J. Forner, B. Haas, F. Kohler, F. Lohoff, N. Raabe, S. Schroeder, T. Stude and A. Voigt (2020). "A Study Project on Eddy Covariance over Grassland: Leaf Area Index, CO₂ Flux, Evapotranspiration." Group.
- Agyei, T., S. Juráň, K. K. Ofori-Amanfo, L. Šigut, O. Urban and M. V. Marek (2020). "The impact of drought on total ozone flux in a mountain Norway spruce forest." *Journal of Forest Science* 66(7): 280-278.
- Ahmed, T. (2019). The carbon balance of a clear-cut forest in Finland Master's Thesis, Itä-Suomen yliopisto.
- Arndt, K. A. (2020). Seasonal Impacts of Climate Change on the Carbon Balance of Alaskan Arctic Tundra Ecosystems PhD Thesis, University of California, Davis.
- Arndt, K. A., D. A. Lipson, J. Hashemi, W. C. Oechel and D. Zona (2020). "Snow melt stimulates ecosystem respiration in Arctic ecosystems." *Global Change Biology* 26(9): 5042-5051.
- Aubinet, M., Q. Hurdebise, H. Chopin, A. Debacq, A. De Ligne, B. Heinesch, T. Manise and C. Vincke (2018). "Inter-annual variability of Net Ecosystem Productivity for a temperate mixed forest: A predominance of carry-over effects?" *Agricultural and Forest Meteorology* 262: 340-353.
- Beamesderfer, E. R. (2019). Climatic Controls on Phenology and Carbon Dynamics in Temperate Deciduous and Coniferous Forests PhD Thesis.
- Beamesderfer, E. R., M. A. Arain, M. Khomik and J. J. Brodeur (2020). "The impact of seasonal and annual climate variations on the carbon uptake capacity of a deciduous forest within the Great Lakes Region of Canada." *Journal of Geophysical Research: Biogeosciences* 125(9): e2019JG005389.
- Beamesderfer, E. R., M. A. Arain, M. Khomik, J. J. Brodeur and B. M. Burns (2020). "Response of carbon and water fluxes to environmental variability in two Eastern North American forests of similar-age but contrasting leaf-retention and shape strategies." *Biogeosciences Discussions*: 1-39.
- Beamesderfer, E. R., M. A. Arain, M. Khomik, J. J. Brodeur and B. M. Burns (2020). "Response of carbon and water fluxes to meteorological and phenological variability in two eastern North American forests of similar age but contrasting species composition—a multiyear comparison." *Biogeosciences* 17(13): 3563-3587.
- Beauclair, Q., B. Heinesch and B. Longdoz (2019). "Impact of the 2018 drought on the CO₂ exchanges of a seed potato crop (*Solanum tuberosum* L.)."
- Berg, M. v. d., E. Elzen, J. Ingwersen, S. Kosten, L. P. M. Lamers and T. Streck (2020). "Contribution of plant-induced pressurized flow to CH₄ emission from a *Phragmites* fen."
- Berger, S., E. Braeckvelt, C. Blodau, M. Burger, M. Goebel, O. Klemm, K.-H. Knorr and C. Wagner-Riddle (2019). "A 1-year greenhouse gas budget of a peatland exposed to long-term nutrient infiltration and altered hydrology: high carbon uptake and methane emission." *Environmental monitoring and assessment* 191(9): 1-16.
- Björkqvist, J.-V., H. Pettersson, W. M. Drennan and K. K. Kahma (2019). "A new inverse phase speed spectrum of nonlinear gravity wind waves." *Journal of Geophysical Research: Oceans* 124(8): 6097-6119.
- Boland, F. (2019). "Analyse pluriannuelle des mécanismes influençant la qualité de mesure par covariance de turbulence de flux énergétiques d'un agroécosystème dynamique: Cas d'une grande culture à Loncée en Hesbaye."
- Bozem, H., P. Hoor, D. Kunkel, F. Köllner, J. Schneider, A. Herber, H. Schulz, W. R. Leitch, A. A. Aliabadi and M. D. Willis (2019). "Characterization of transport regimes and the polar dome during Arctic spring and

- summer using in situ aircraft measurements." *Atmospheric Chemistry and Physics* 19(23): 15049-15071.
- Britton, T. (2019). "Determining evapotranspiration and crop coefficient values using an adjusted Penman-Monteith equation over canola (*Brassica napus*) in southern Manitoba."
- Brugger, P., T. Banerjee, F. De Roo, K. Kröniger, R. Qubaja, S. Rohatyn, E. Rotenberg, F. Tatarinov, D. Yakir and F. Yang (2018). "Effect of Surface Heterogeneity on the Boundary-Layer Height: A Case Study at a Semi-Arid Forest." *Boundary-Layer Meteorology* 169(2): 233-250.
- Burakowski, E., A. Tawfik, A. Ouimette, L. Lepine, K. Novick, S. Ollinger, C. Zarzycki and G. Bonan (2018). "The role of surface roughness, albedo, and Bowen ratio on ecosystem energy balance in the Eastern United States." *Agricultural and Forest Meteorology* 249: 367-376.
- Burakowski, E. A., A. Tawfik, A. Ouimette, L. Lepine, C. Zarzycki, K. Novick, S. Ollinger and G. Bonan (2019). "Simulating surface energy fluxes using the variable-resolution Community Earth System Model (VR-CESM)." *Theoretical and Applied Climatology* 138(1): 115-133.
- Burman, P. K. D., D. Sarma, R. Morrison, A. Karipot and S. Chakraborty (2019). "Seasonal variation of evapotranspiration and its effect on the surface energy budget closure at a tropical forest over north-east India." *Journal of Earth System Science* 128(5): 127.
- Burri, S. (2019). "Long-Term Environmental Research—The Davos-Seehornwald Site."
- Butterworth, B. J. and B. G. T. Else (2018). "Dried, closed-path eddy covariance method for measuring carbon dioxide flux over sea ice." *Atmospheric Measurement Techniques* 11(11): 6075-6090.
- Cahill, A. G., B. Ladd, J. Chao, J. Soares, T. Cary, N. Finke, C. Manning, C. Chopra, I. Hawthorne and O. N. Forde (2018). "Implementation and operation of a multidisciplinary field investigation involving a subsurface controlled natural gas release, northeastern British Columbia." *Geoscience BC Summary of Activities: 2019-2002*.
- Cahill, A. G., B. Ladd, J. Chao, J. Soares, T. Cary, N. Finke, C. Manning, A. L. Popp, C. Chopra and K. U. Mayer "Controlled Natural Gas Release Experiment in a Confined Aquifer, Northeastern British Columbia (NTS 094A/04): Activity Report 2018–2019."
- Camarinha-Neto, G. F., J. C. P. Cohen, C. Q. Dias-Júnior, M. Sörgel, J. H. Cattanio, A. Araújo, S. Wolff, P. A. F. Kuhn, R. A. F. Souza and L. V. Rizzo (2021). "The frigram event in the central Amazon and its influence on micrometeorological variables and atmospheric chemistry." *Atmospheric Chemistry and Physics* 21(1): 339-356.
- Cao, S., G. Cao, K. Chen, G. Han, Y. Liu, Y. Yang and X. Li (2019). "Characteristics of CO₂, water vapor, and energy exchanges at a headwater wetland ecosystem of the Qinghai Lake." *Canadian Journal of Soil Science* 99(3): 227-243.
- Cao, S., G. Cao, G. Han, F. Wu and Y. Lan (2020). "Comparison of evapotranspiration between two alpine type wetland ecosystems in Qinghai lake basin of Qinghai-Tibet Plateau." *Ecohydrology & Hydrobiology* 20(2): 215-229.
- Carrillo-Rojas, G., B. Silva, R. Rollenbeck, R. Céleri and J. Bendix (2019). "The breathing of the Andean highlands: Net ecosystem exchange and evapotranspiration over the páramo of southern Ecuador." *Agricultural and Forest Meteorology* 265: 30-47.
- Casimiro Soriano, E. M. (2019). "Balance de carbono, energía y productividad ecosistémica en la amazonía occidental empleando el método de flujos turbulentos."
- Chatterjee, A., A. Roy, S. Chakraborty, A. K. Karipot, C. Sarkar, S. Singh, S. K. Ghosh, A. Mitra and S. Raha (2018). "Biosphere atmosphere exchange of CO₂, H₂O vapour and energy during spring over a high altitude Himalayan forest in eastern India." *Aerosol and Air Quality Research* 18(10): 2704-2719.
- Chen, M., X. Yang, S. Wang, A. E. Suyker, C. J. Bernacchi, C. E. Moore, Y. Zeng, J. A. Berry and M. P. Cendrero-Mateo (2020). "Radiance-based NIRv as a proxy for GPP of corn and soybean."
- Chi, J., M. B. Nilsson, N. Kljun, J. Wallerman, J. E. S. Fransson, H. Laudon, T. Lundmark and M. Peichl (2019). "The carbon balance of a managed boreal landscape measured from a tall tower in northern Sweden." *Agricultural and Forest Meteorology* 274: 29-41.
- Chi, J., P. Zhao, A. Klosterhalfen, G. Jocher, N. Kljun, M. B. Nilsson and M. Peichl (2021). "Forest floor fluxes

- drive differences in the carbon balance of contrasting boreal forest stands." *Agricultural and Forest Meteorology* 306: 108454.
- Chopra, C. (2020). Quantification and mapping of methane emissions using eddy covariance in a controlled subsurface synthetic natural gas release experiment PhD Thesis, University of British Columbia.
- Chopra, C., T. A. Black, J. Soares, U. K. Mayer, O. Forde, I. Hawthorne, Z. Nestic, A. G. Cahill, R. D. Beckie and R. Jassal (2019). Investigating Methane Leaks Using Eddy Covariance and Footprint Analysis in an Injection Experiment.
- Christensen, T. R., M. Lund, K. Skov, J. Abermann, E. Lopez-Blanco, J. Scheller, M. Scheel, M. Jackowicz-Korczynski, K. Langley and M. J. Murphy (2021). "Multiple ecosystem effects of extreme weather events in the Arctic." *Ecosystems* 24: 122-136.
- Chunxuan, L., M. Jingyong, Y. Ruizhi, W. Yajuan, T. Yun, J. Xin, Z. Tianshan and Y. Lin (2018). "Priestley-Taylor model coefficient in a typical *Artemisia ordosica* shrubland in Mu Us Sandy Land of northwestern China." *北京林业大学学报* 40(12): 1-8.
- Ciężkowski, W., T. Berezowski, M. Kleniewska and J. Chormański (2018). Carbon Dioxide and Water Vapour Fluxes of a Alkaline Fen and Their Dependence on Reflectance, *IEEE*.
- Clark, M. G. (2018). The initial biometeorology of the constructed Sandhill Fen Watershed in Alberta, Canada PhD Thesis, Carleton University.
- Clark, M. G., E. Humphreys and S. K. Carey (2019). "The initial three years of carbon dioxide exchange between the atmosphere and a reclaimed oil sand wetland." *Ecological Engineering* 135: 116-126.
- Clayson, C. A., J. B. Edson, A. Paget, R. Graham and B. Greenwood (2019). "Effects of rainfall on the atmosphere and the ocean during SPURS-2." *Oceanography* 32(2): 86-97.
- Cochavi, A., M. Amer, R. Stern, F. Tatarinov, M. Migliavacca and D. Yakir (2021). "Differential responses to two heatwave intensities in a Mediterranean citrus orchard are identified by combining measurements of fluorescence and carbonyl sulfide (COS) and CO₂ uptake." *New Phytologist* 230(4): 1394-1406.
- Cook, A. A. (2019). Measuring methane emissions from American bison (*Bison bison* L.) using eddy covariance PhD Thesis, Montana State University-Bozeman, College of Agriculture.
- Córdova, M., L. Bogerd, P. Smeets and G. Carrillo-Rojas (2020). "Estimating turbulent fluxes in the tropical andes." *Atmosphere* 11(2): 213.
- D'Acunha, B., L. Morillas, T. A. Black, A. Christen and M. S. Johnson (2019). "Net ecosystem carbon balance of a peat bog undergoing restoration: integrating CO₂ and CH₄ fluxes from eddy covariance and aquatic evasion with DOC drainage fluxes." *Journal of Geophysical Research: Biogeosciences* 124(4): 884-901.
- Damm, A., E. Paul-Limoges, D. Kükenbrink, C. Bachofen and F. Morsdorf (2020). "Remote sensing of forest gas exchange: Considerations derived from a tomographic perspective." *Global change biology* 26(4): 2717-2727.
- De Haan, K. (2020). Progressing Towards Understanding Water Use Efficiency in Southern, Ontario Canada: Quantifying Water Use Efficiency Metrics (WUE) and Investigating Soil and Plant Physiology Influences on WUE Master's Thesis, University of Waterloo.
- Dechant, B., Y. Ryu, G. Badgley, Y. Zeng, J. A. Berry, Y. Zhang, Y. Goulas, Z. Li, Q. Zhang and M. Kang (2020). "Canopy structure explains the relationship between photosynthesis and sun-induced chlorophyll fluorescence in crops." *Remote Sensing of Environment* 241: 111733.
- Dechant, B., Y. Ryu and M. Kang (2019). "Making full use of hyperspectral data for gross primary productivity estimation with multivariate regression: Mechanistic insights from observations and process-based simulations." *Remote Sensing of Environment* 234: 111435.
- Delhez, L. (2019). "Mechanistic modelling of cropland and grassland ecosystems: Focus on the carbon cycle and on plant phenology."
- Deng, J., J. Xiao, A. Ouimette, Y. Zhang, R. Sanders-DeMott, S. Frolking and C. Li (2020). "Improving a Biogeochemical Model to Simulate Surface Energy, Greenhouse Gas Fluxes, and Radiative Forcing for Different Land Use Types in Northeastern United States." *Global Biogeochemical Cycles* 34(8): e2019GB006520.
- Deventer, M. J., T. Roman, I. Bogoev, R. K. Kolka, M. Erickson, X. Lee, J. M. Baker, D. B. Millet and T. J. Griffis (2021). "Biases in open-path carbon dioxide flux measurements: Roles of instrument surface heat

- exchange and analyzer temperature sensitivity." *Agricultural and Forest Meteorology* 296: 108216.
- Dong, Y., M. Yang, D. C. E. Bakker, V. Kitidis and T. G. Bell (2021). "Uncertainties in eddy covariance air-sea CO₂ flux measurements and implications for gas transfer velocity parameterisations." *Atmospheric Chemistry and Physics* 21(10): 8089-8110.
- Drollinger, S., A. Maier and S. Glatzel (2019). "Interannual and seasonal variability in carbon dioxide and methane fluxes of a pine peat bog in the Eastern Alps, Austria." *Agricultural and Forest Meteorology* 275: 69-78.
- Dumont, C. (2019). "Mechanistic modelling of cropland and grassland ecosystems: focus on the water cycle and on cattle grazing."
- Ehrlich, A., M. Wendisch, C. Lüpkes, M. Buschmann, H. Bozem, D. Chechin, H.-C. Clemen, R. Dupuy, O. Eppers and J. Hartmann (2019). "A comprehensive in situ and remote sensing data set from the Arctic CLOUD Observations Using airborne measurements during polar Day (ACLOUD) campaign." *Earth System Science Data* 11(4): 1853-1881.
- Ejarque, E., K. Scholz, G. Wohlfahrt, T. J. Battin, M. J. Kainz and J. Schelker (2021). "Hydrology controls the carbon mass balance of a mountain lake in the eastern European Alps." *Limnology and Oceanography*.
- Erkkilä, K.-M., A. Ojala, D. Bastviken, T. Biermann, J. J. Heiskanen, A. Lindroth, O. Peltola, M. Rantakari, T. Vesala and I. Mammarella (2018). "Methane and carbon dioxide fluxes over a lake: comparison between eddy covariance, floating chambers and boundary layer method." *Biogeosciences* 15(2): 429-445.
- Evans, C. D., M. Peacock, A. J. Baird, R. R. E. Artz, A. Burden, N. Callaghan, P. J. Chapman, H. M. Cooper, M. Coyle and E. Craig (2021). "Overriding water table control on managed peatland greenhouse gas emissions." *Nature* 593(7860): 548-552.
- Fersch, B., A. Senatore, B. Adler, J. Arnault, M. Mauder, K. Schneider, I. Völksch and H. Kunstmann (2020). "High-resolution fully coupled atmospheric-hydrological modeling: a cross-compartment regional water and energy cycle evaluation." *Hydrology and Earth System Sciences* 24(5): 2457-2481.
- Fischer, M., T. Zenone, M. Trnka, M. Orság, L. Montagnani, E. J. Ward, A. M. Tripathi, P. Hlavinka, G. Seufert and Z. Žalud (2018). "Water requirements of short rotation poplar coppice: Experimental and modelling analyses across Europe." *Agricultural and Forest Meteorology* 250: 343-360.
- Foltýnová, L., M. Fischer and R. P. McGloin (2020). "Recommendations for gap-filling eddy covariance latent heat flux measurements using marginal distribution sampling." *Theoretical and Applied Climatology* 139(1): 677-688.
- Fratini, G., S. Sabbatini, K. Ediger, B. Riensche, G. Burba, G. Nicolini, D. Vitale and D. Papale (2018). "Eddy covariance flux errors due to random and systematic timing errors during data acquisition." *Biogeosciences* 15(17): 5473-5487.
- Fritz, J., H. Meyer, W. Tseng, N.-H. Lin and O. Klemm (2021). "Covariation of droplet size distribution and air humidity in fog: A methodological approach." *Journal of Hydrology* 594: 125934.
- Gebremedhin, M., I. Ries, G. B. Senay, M. Matisoff, I. Amusan, J. Sandifer and B. Gyawali (2020). "Evaluation of the Operational Simplified Surface Energy Balance Model for Pastureland Evapotranspiration Mapping and Drought Monitoring in North Central Kentucky." *Advances in Meteorology* 2020.
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- Gomez-Casanovas, N., N. J. DeLucia, C. J. Bernacchi, E. H. Boughton, J. P. Sparks, S. D. Chamberlain and E. H. DeLucia (2018). "Grazing alters net ecosystem C fluxes and the global warming potential of a subtropical pasture." *Ecological Applications* 28(2): 557-572.
- Gomez-Casanovas, N., N. J. DeLucia, E. H. DeLucia, E. Blanc-Betes, E. H. Boughton, J. Sparks and C. J. Bernacchi (2020). "Seasonal controls of CO₂ and CH₄ dynamics in a temporarily flooded subtropical wetland." *Journal of Geophysical Research: Biogeosciences* 125(3): e2019JG005257.
- Green, A. (2019). *Microclimatic Effects of Forest to Peatland Transitions Within the Boreal Plains Master's Thesis*, University of Waterloo.
- Green, A., G. Bohrer and R. Petrone (2021).

- "Microclimatic effects of a forest-to-peatland transition on aerodynamic resistance to water vapour transfer in the sub-humid Boreal Plains." *Boundary-Layer Meteorology* 178(2): 301-322.
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- Harenda, K. M., P. Poczta, D. Szczepanik, D. Wang, I. S. Stachlewska and B. H. Chojnicki (2018). Strategy for Multidimensional Peatland Ecosystem Analysis in the Context of the Atmospheric Properties, *EDP Sciences*.
- Harenda, K. M., M. Samson, R. I. Juszczak, K. M. Markowicz, I. S. Stachlewska, M. I. Kleniewska, A. MacArthur, D. Schüttemeyer and B. H. Chojnicki (2021). "Impact of Atmospheric Optical Properties on Net Ecosystem Productivity of Peatland in Poland." *Remote Sensing* 13(11): 2124.
- Havu, M. (2018). "Hiilidioksidin vaihdon alueelliset muutokset Helsingissä."
- Hawman, P. A., D. R. Mishra, J. L. O'Connell, D. L. Cotten, C. R. Narron and L. Mao (2021). "Salt Marsh Light Use Efficiency is Driven by Environmental Gradients and Species-Specific Physiology and Morphology." *Journal of Geophysical Research: Biogeosciences* 126(5): e2020JG006213.
- Heid, L., C. Calvaruso, A. Andrianantenaina, A. Granier, S. Conil, C. B. K. Rathgeber, M.-P. Turpault and B. Longdoz (2018). "Seasonal time-course of the above ground biomass production efficiency in beech trees (*Fagus sylvatica* L.)." *Annals of forest science* 75(1): 1-14.
- Heimsch, L. (2019). "Carbon balance of agricultural grasslands based on direct micrometeorological flux measurement method."
- Heimsch, L., A. Lohila, J.-P. Tuovinen, H. Vekuri, J. Heinonsalo, O. Nevalainen, M. Korhikoski, J. Liski, T. Laurila and L. Kulmala (2020). "Carbon dioxide fluxes and carbon balance of an agricultural grassland in southern Finland." *Biogeosciences Discussions*: 1-27.
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- Hong, J.-W., J. Hong, J. Chun, Y. H. Lee, L.-S. Chang, J.-B. Lee, K. Yi, Y.-S. Park, Y.-H. Byun and S. Joo (2019). "Comparative assessment of net CO₂ exchange across an urbanization gradient in Korea based on eddy covariance measurements." *Carbon balance and management* 14(1): 1-18.
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- Howard, D. and G. C. Edwards (2018). "Mercury fluxes over an Australian alpine grassland and observation of nocturnal atmospheric mercury depletion events." *Atmospheric Chemistry and Physics* 18(1): 129-142.
- Hrisko, J., P. Ramamurthy and J. E. Gonzalez (2021). "Estimating heat storage in urban areas using multispectral satellite data and machine learning." *Remote Sensing of Environment* 252: 112125.
- Hrisko, J. E. (2020). *Toward Closing the Urban Surface Energy Balance Using Satellite Remote Sensing* PhD

- Thesis, The City College of New York.
- Huang, Y., Y. Ryu, C. Jiang, H. Kimm, S. Kim, M. Kang and K. Shim (2018). "BESS-Rice: A remote sensing derived and biophysical process-based rice productivity simulation model." *Agricultural and Forest Meteorology* 256: 253-269.
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- Jocher, G., J. Marshall, M. B. Nilsson, S. Linder, G. De Simon, T. Hörnlund, T. Lundmark, T. Näsholm, M. Ottosson Löfvenius and L. Tarvainen (2018). "Impact of canopy decoupling and subcanopy advection on the annual carbon balance of a boreal scots pine forest as derived from eddy covariance." *Journal of Geophysical Research: Biogeosciences* 123(2): 303-325.
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