

- Addis, B. R., & Lowe, W. H. (2020). Long-term survival probability, not current habitat quality, predicts dispersal distance in a stream salamander. *Ecology*, 101(4), e02982. <https://doi.org/10.1002/ecy.2982>
- Alber, M., Blair, J., Driscoll, C. T., Ducklow, H., Fahey, T., Fraser, W. R., Hobbie, J. E., Karl, D. M., Kingsland, S. E., Knapp, A., Rastetter, E. B., Seastedt, T., Shaver, G. R., & Waide, R. B. (2021). Sustaining Long-Term Ecological Research: Perspectives from Inside the LTER Program. In R. B. Waide & S. E. Kingsland (Eds.), *The Challenges of Long Term Ecological Research: A Historical Analysis* (pp. 81–116). Springer International Publishing. https://doi.org/10.1007/978-3-030-66933-1_4
- Bailey, S. W. (2020). Tracking the Fate of Plagioclase Weathering Products. In *Biogeochemical Cycles* (pp. 151–162). American Geophysical Union (AGU). <https://doi.org/10.1002/9781119413332.ch7>
- Bayer, M. O., & Lowe, W. H. (2021). Top-Down Effects of Salamanders on Macroinvertebrates in Fishless Headwater Streams. *Herpetologica*, 77(2), 111–120. <https://doi.org/10.1655/Herpetologica-D-20-00054.1>
- Bayer, M. O., Swartz, L. K., & Lowe, W. H. (2021). Predictors of Biofilm Biomass in Oligotrophic Headwater Streams. *Northeastern Naturalist*, 28(1), 28–48. <https://doi.org/10.1656/045.028.0103>
- Benton, J. (2020). *Temporal Dynamics of Groundwater Flow Direction in a Glaciated, Headwater Catchment* [MS Thesis]. Virginia Tech.
- Berry, M. (2021). *Effects of Climate Change Across Seasons on Litterfall Mass and Chemistry in a Northern Hardwood Forest* [M.S., Boston University]. <https://www.proquest.com/docview/2506479639/abstract/84FEC5A013B744CBPQ/1>
- Bianchi, T. S., Anand, M., Bauch, C. T., Canfield, D. E., De Meester, L., Fennel, K., Groffman, P. M., Pace, M. L., Saito, M., & Simpson, M. J. (2021). Ideas and perspectives: Biogeochemistry – some key foci for the future. *Biogeosciences*, 18(10), 3005–3013. <https://doi.org/10.5194/bg-18-3005-2021>
- Campbell, J. L., Rustad, L. E., Bailey, S. W., Bernhardt, E. S., Driscoll, C. T., Green, M. B., Groffman, P. M., Lovett, G. M., McDowell, W. H., McGuire, K. J., & Rosi, E. J. (2021). Watershed studies at the Hubbard Brook Experimental Forest: Building on a long legacy of research with new approaches and sources of data. *Hydrological Processes*, 35(1), e14016. <https://doi.org/10.1002/hyp.14016>
- Campbell, J. L., Rustad, L. E., Driscoll, C. T., Halm, I., Fahey, T. J., Fakhraei, H., Groffman, P. M., Hawley, G. J., Leuenberger, W., & Schaberg, P. G. (2020). Simulating Impacts of Ice Storms on Forest Ecosystems. *Journal of Visualized Experiments*, 160, 61492. <https://doi.org/10.3791/61492>
- Campbell, J. L., Rustad, L. E., Garlick, S., Newman, N., Stanovick, J. S., Halm, I., Driscoll, C. T., Barjenbruch, B. L., Burakowski, E., Hilberg, S. D., Sanders, K. J., Shafer, J. C., & Doesken, N. J. (2020). A Comparison of Low-Cost Collector Configurations for Quantifying Ice Accretion. *Journal of Applied Meteorology and Climatology*, 59(9), 1429–1442. <https://doi.org/10.1175/JAMC-D-19-0280.1>
- Clark, J. S., Andrus, R., Aubry-Kientz, M., Bergeron, Y., Bogdziewicz, M., Bragg, D. C., Brockway, D., Cleavitt, N. L., Cohen, S., Courbaud, B., Daley, R., Das, A. J., Dietze, M., Fahey, T. J., Fer, I., Franklin, J. F., Gehring, C. A., Gilbert, G. S., Greenberg, C. H., ... Zlotin, R. (2021). Continent-wide tree fecundity driven by indirect climate effects. *Nature Communications*, 12(1), 1242. <https://doi.org/10.1038/s41467-020-20836-3>
- Cleavitt, N. L., Battles, J. J., Fahey, T. J., & Doorn, N. S. van. (2021). Disruption of the competitive balance between foundational tree species by interacting stressors in a temperate deciduous forest. *Journal of Ecology*, n/a(n/a). <https://doi.org/10.1111/1365-2745.13687>

- Cusser, S., Helms, J., Bahlai, C. A., & Haddad, N. M. (2021). How long do population level field experiments need to be? Utilising data from the 40-year-old LTER network. *Ecology Letters*, 24(5), 1103–1111. <https://doi.org/10.1111/ele.13710>
- Darby, B. A., Goodale, C. L., Chin, N. A., Fuss, C. B., Lang, A. K., Ollinger, S. V., & Lovett, G. M. (2020). Depth patterns and connections between gross nitrogen cycling and soil exoenzyme activities in three northern hardwood forests. *Soil Biology and Biochemistry*, 147, 107836. <https://doi.org/10.1016/j.soilbio.2020.107836>
- Duston, S. (2020). *Capturing and Characterizing Soluble Organic Matter Dynamics in Soil Formation Processes* [MS Thesis]. Virginia Tech.
- Eng, L. E., & Scanlon, T. M. (2021). Comparison of northeastern and southeastern U.S. watershed response to the declines in atmospheric sulfur deposition. *Atmospheric Environment*, 253, 118365. <https://doi.org/10.1016/j.atmosenv.2021.118365>
- Fakhraei, H., Fahey, T. J., & Driscoll, C. T. (2020). The Biogeochemical Response of Nitrate and Potassium to Landscape Disturbance in Watersheds of the Hubbard Brook Experimental Forest, New Hampshire, USA. In D. F. Levia, D. E. Carlyle-Moses, S. Iida, B. Michalzik, K. Nanko, & A. Tischer (Eds.), *Forest-Water Interactions* (pp. 537–563). Springer International Publishing. https://doi.org/10.1007/978-3-030-26086-6_22
- Fraser, O. L., Bailey, S. W., Ducey, M. J., & McGuire, K. J. (2020). Predictive modeling of bedrock outcrops and associated shallow soil in upland glaciated landscapes. *Geoderma*, 376, 114495. <https://doi.org/10.1016/j.geoderma.2020.114495>
- Germain, R. R., Hallworth, M. T., Kaiser, S. A., Sillett, T. S., & Webster, M. S. (2020). Variance in within-pair reproductive success drives the opportunity for sexual selection annually and over the lifetimes of males in a multi-brooded songbird. *BioRxiv*, 2020.03.03.974790. <https://doi.org/10.1101/2020.03.03.974790>
- Green, M. B., Bailey, S. W., Campbell, J. L., McGuire, K. J., Bailey, A. S., Fahey, T. J., Lany, N., & Zietlow, D. (2021). A catchment water balance assessment of an abrupt shift in evapotranspiration at the Hubbard Brook Experimental Forest, New Hampshire, USA. *Hydrological Processes*, n/a(n/a), e14300. <https://doi.org/10.1002/hyp.14300>
- Green, M. B., Pardo, L. H., Bailey, S. W., Campbell, J. L., McDowell, W. H., Bernhardt, E. S., & Rosi, E. J. (2021). Predicting high-frequency variation in stream solute concentrations with water quality sensors and machine learning. *Hydrological Processes*, 35(1), e14000. <https://doi.org/10.1002/hyp.14000>
- Harrison, J. L., Reinmann, A. B., Maloney, A. S., Phillips, N., Juice, S. M., Webster, A. J., & Templer, P. H. (2020). Transpiration of Dominant Tree Species Varies in Response to Projected Changes in Climate: Implications for Composition and Water Balance of Temperate Forest Ecosystems. *Ecosystems*. <https://doi.org/10.1007/s10021-020-00490-y>
- Harrison, J. L., Sanders-DeMott, R., Reinmann, A. B., Sorensen, P. O., Phillips, N. G., & Templer, P. H. (2020). Growing-season warming and winter soil freeze/thaw cycles increase transpiration in a northern hardwood forest. *Ecology*, 101(11), e03173. <https://doi.org/10.1002/ecy.3173>
- Hazlett, P., Emilson, C., Lawrence, G., Fernandez, I., Ouimet, R., & Bailey, S. (2020). Reversal of Forest Soil Acidification in the Northeastern United States and Eastern Canada: Site and Soil Factors Contributing to Recovery. *Soil Systems*, 4(3), 54. <https://doi.org/10.3390-soilsystems4030054>

- Juice, S. (2020). *The Environmental Microbiome In A Changing World: Microbial Processes And Biogeochemistry* [PhD Thesis]. University of Vermont.
- Keenan, T. F., Richardson, A. D., & Hufkens, K. (2020). On quantifying the apparent temperature sensitivity of plant phenology. *New Phytologist*, 225(2), 1033–1040. <https://doi.org/10.1111/nph.16114>
- Lang, A. K., Jevon, F. V., Vietorisz, C. R., Ayres, M. P., & Matthes, J. H. (2021). Fine roots and mycorrhizal fungi accelerate leaf litter decomposition in a northern hardwood forest regardless of dominant tree mycorrhizal associations. *New Phytologist*, 230(1), 316–326. <https://doi.org/10.1111/nph.17155>
- Leuenberger, W., Cohen, J. B., Rustad, L., Wallin, K. F., & Parry, D. (2021). Short-Term Increase in Abundance of Foliage-Gleaning Insectivorous Birds Following Experimental Ice Storms in a Northern Hardwood Forest. *Frontiers in Forests and Global Change*, 3. <https://doi.org/10.3389/ffgc.2020.566376>
- Likens, G. E. (2021). Ambio's legacy on monitoring, impact, and management of acid rain. *Ambio*, 50(2), 278–280. <https://doi.org/10.1007/s13280-020-01409-6>
- Likens, G. E., Buso, D. C., Bernhardt, E. S., & Rosi, E. (2021). A century of change: Reconstructing the biogeochemical history of Hubbard Brook. *Hydrological Processes*, 35(6), e14256. <https://doi.org/10.1002/hyp.14256>
- Likens, G. E., Butler, T. J., Claybrooke, R., Vermeylen, F., & Larson, R. (2021). Long-term monitoring of precipitation chemistry in the U.S.: Insights into changes and condition. *Atmospheric Environment*, 245, 118031. <https://doi.org/10.1016/j.atmosenv.2020.118031>
- Lowe, W. H., Martin, T. E., Skelly, D. K., & Woods, H. A. (2021). Metamorphosis in an Era of Increasing Climate Variability. *Trends in Ecology & Evolution*, 36(4), 360–375. <https://doi.org/10.1016/j.tree.2020.11.012>
- Ouimette, A. P., Ollinger, S. V., Lepine, L. C., Stephens, R. B., Rowe, R. J., Vadeboncoeur, M. A., Tumber-Davila, S. J., & Hobbie, E. A. (2020). Accounting for Carbon Flux to Mycorrhizal Fungi May Resolve Discrepancies in Forest Carbon Budgets. *Ecosystems*, 23(4), 715–729. <https://doi.org/10.1007/s10021-019-00440-3>
- Possinger, A. R., Bailey, S. W., Inagaki, T. M., Kögel-Knabner, I., Dynes, J. J., Arthur, Z. A., & Lehmann, J. (2020). Organo-mineral interactions and soil carbon mineralizability with variable saturation cycle frequency. *Geoderma*, 375, 114483. <https://doi.org/10.1016/j.geoderma.2020.114483>
- Rayback, S. A., Duncan, J. A., Schaberg, P. G., Kosiba, A. M., Hansen, C. F., & Murakami, P. F. (2020). The DendroEcological Network: A cyberinfrastructure for the storage, discovery and sharing of tree-ring and associated ecological data. *Dendrochronologia*, 60, 125678. <https://doi.org/10.1016/j.dendro.2020.125678>
- Rustad, L. E., Campbell, J. L., Driscoll, C. T., Fahey, T. J., Groffman, P. M., Schaberg, P. G., Hawley, G. J., Halm, I., Bowles, F., Leuenberger, W., Schwaner, G., Winant, G., & Leonardi, B. (2020). Experimental approach and initial forest response to a simulated ice storm experiment in a northern hardwood forest. *PLOS ONE*, 15(9), e0239619. <https://doi.org/10.1371/journal.pone.0239619>
- Sahu, S. K. (2020). Spatio-temporal Bayesian modeling of precipitation using rain gauge data from the Hubbard Brook Experimental Forest, New Hampshire, USA. *Joint Statistical Meetings Proceedings, Statistical Computing Section*, 77–92.

- Schlesinger, W. H. (2021). Some thoughts on the biogeochemical cycling of potassium in terrestrial ecosystems. *Biogeochemistry*, 154(2), 427–432. <https://doi.org/10.1007/s10533-020-00704-4>
- Schulz, A. N., Mech, A. M., Allen, C. R., Ayres, M. P., Gandhi, K. J. K., Gurevitch, J., Havill, N. P., Herms, D. A., Hufbauer, R. A., Liebhold, A. M., Raffa, K. F., Raupp, M. J., Thomas, K. A., Tobin, P. C., & Marsico, T. D. (2020). The impact is in the details: Evaluating a standardized protocol and scale for determining non-native insect impact. *NeoBiota*, 55, 61–83. <https://doi.org/10.3897/neobiota.55.38981>
- See, C. R., Green, M. B., Yanai, R. D., Bailey, A. S., Campbell, J. L., & Hayward, J. (2020). Quantifying uncertainty in annual runoff due to missing data. *PeerJ*, 8, e9531. <https://doi.org/10.7717/peerj.9531>
- Shan, S. (2020). *The controls of nutrient limitation on resource allocation belowground* [PhD Thesis]. Miami University.
- Shaughnessy, A. R., Gu, X., Wen, T., & Brantley, S. L. (2021). Machine learning deciphers CO₂ sequestration and subsurface flowpaths from stream chemistry. *Hydrology and Earth System Sciences*, 25(6), 3397–3409. <https://doi.org/10.5194/hess-25-3397-2021>
- Swanson, F. J., Foster, D. R., Driscoll, C. T., Thompson, J. R., & Rustad, L. E. (2021). How LTER Site Communities Can Address Major Environmental Challenges. In R. B. Waide & S. E. Kingsland (Eds.), *The Challenges of Long Term Ecological Research: A Historical Analysis* (pp. 223–241). Springer International Publishing. https://doi.org/10.1007/978-3-030-66933-1_8
- Taylor, L. L., Driscoll, C. T., Groffman, P. M., Rau, G. H., Blum, J. D., & Beerling, D. J. (2021). Increased carbon capture by a silicate-treated forested watershed affected by acid deposition. *Biogeosciences*, 18(1), 169–188. <https://doi.org/10.5194/bg-18-169-2021>
- Torresan, C., Benito Garzón, M., O’Grady, M., Robson, T. M., Picchi, G., Panzacchi, P., Tomelleri, E., Smith, M., Marshall, J., Wingate, L., Tognetti, R., Rustad, L. E., & Kneeshaw, D. (2021). A new generation of sensors and monitoring tools to support climate-smart forestry practices. *Canadian Journal of Forest Research*, 1–15. <https://doi.org/10.1139/cjfr-2020-0295>
- Vadeboncoeur, M. A., Jennings, K. A., Ouimette, A. P., & Asbjornsen, H. (2020). Correcting tree-ring δ13C time series for tree-size effects in eight temperate tree species. *Tree Physiology*, 40(3), 333–349. <https://doi.org/10.1093/treephys/tpz138>
- Valipour, M., Johnson, C. E., Battles, J. J., Campbell, J. L., Fahey, T. J., Fakhraei, H., & Driscoll, C. T. (2021). Simulation of the effects of forest harvesting under changing climate to inform long-term sustainable forest management using a biogeochemical model. *Science of The Total Environment*, 767, 144881. <https://doi.org/10.1016/j.scitotenv.2020.144881>
- Verdier, J. M. (2020). In Their Own Words: Gene E. Likens. *BioScience*, 70(8), 640–646. <https://doi.org/10.1093/biosci/biaa080>
- Verrico, B. M., Weiland, J., Perkins, T. D., Beckage, B., & Keller, S. R. (2020). Long-term monitoring reveals forest tree community change driven by atmospheric sulphate pollution and contemporary climate change. *Diversity and Distributions*, 26(3), 270–283. <https://doi.org/10.1111/ddi.13017>
- Wilson, G., Green, M., Brown, J., Campbell, J., Groffman, P., Durán, J., & Morse, J. (2020). Snowpack affects soil microclimate throughout the year. *Climatic Change*, 163(2), 705–722. <https://doi.org/10.1007/s10584-020-02943-8>

Woodall, C. W., Evans, D. M., Fraver, S., Green, M. B., Lutz, D. A., & D'Amato, A. W. (2020). Real-time monitoring of dead wood moisture in forests: Lessons learned from an intensive case study. *Canadian Journal of Forest Research*. <https://doi.org/10.1139/cjfr-2020-0110>

Yanai, R. D., Yang, Y., Wild, A. D., Smith, K. T., & Driscoll, C. T. (2020). New Approaches to Understand Mercury in Trees: Radial and Longitudinal Patterns of Mercury in Tree Rings and Genetic Control of Mercury in Maple Sap. *Water, Air, & Soil Pollution*, 231(5), 248. <https://doi.org/10.1007/s11270-020-04601-2>

Zarnetske, P. L., Gurevitch, J., Franklin, J., Groffman, P. M., Harrison, C. S., Hellmann, J. J., Hoffman, F. M., Kothari, S., Robock, A., Tilmes, S., Visioni, D., Wu, J., Xia, L., & Yang, C.-E. (2021). Potential ecological impacts of climate intervention by reflecting sunlight to cool Earth. *Proceedings of the National Academy of Sciences*, 118(15). <https://doi.org/10.1073/pnas.1921854118>

Zimmerman, A., & Groffman, P. M. (2021). Evolving Governance in the U.S. Long Term Ecological Research Network. In R. B. Waide & S. E. Kingsland (Eds.), *The Challenges of Long Term Ecological Research: A Historical Analysis* (pp. 423–444). Springer International Publishing. https://doi.org/10.1007/978-3-030-66933-1_15