HUBBARD BROOK MONTHLY February 2022 issue

Recent Publications

Blagden, M, JL Harrison, R Minocha, R Sanders-DeMott, S Long, PH Templer. 2022. Climate change influences foliar nutrition and metabolism of red maple (*Acer rubrum*) trees in a northern hardwood forest. Ecosphere. <u>https://doi.org/10.1002/ecs2.3859</u>

Nash, JM, FM Diggs, and RD Yanai. 2022. Length and colonization rates of roots associated with arbuscular or ectomycorrhizal fungi decline differentially with depth in two northern hardwood forests. Mycorrhiza. <u>https://doi.org/10.1007/s00572-022-01071-8</u>

Pardo, LH, M Green, SW Bailey, KJ McGuire, & WH McDowell. 2022. Identifying controls on nitrate sources and flowpaths in a forested catchment using a hydropedological framework. Journal of Geophysical Research: Biogeosciences. https://doi.org/10.1029/2020JG006140

If your publication is missing from this list, please let us know: sciencelinks@hubbardbrookfoundation.org

Hubbard Brook in the News

Peter Dykstra: The green bucket list. Sites across the U.S. where environmental challenges have been met <u>Environmental Health News</u>

Outreach and Education Update

Lindsey Rustad gave a talk titled 'WaterViz: Confluence of Science, Art and Music' for a graduate class in EcoInformatics at Northern Arizona University. Watch Lindsey's talk <u>here</u>.

On February 18, Brendan Leonardi served as a guest panelist for the Plymouth State University Bioseminar Career Development Panel.

On January 25, Eric Kelsey gave a virtual poster presentation titled 'Synoptic Types Associated with High Evapotranspiration and Carbon Uptake in a Temperate Mixed Hardwood Forest in New England' at the 102nd American Meteorological Society Annual Meeting.

Shout-Outs

Sara Kaiser gives a shout-out to John Deitsch for being selected as the featured Undergraduate Researcher of the Week in the Cornell Office of Undergraduate Biology's newsletter "Hacks and Happenings!" Find the newsletter <u>here</u>.

Announcements

The next Hubbard Brook Quarterly Project Meeting will be held on April 13 from 10am to 3pm ET. The topic is Soil Respiration - CO2 Fluxes from Soil.

The Hubbard Brook Research Approval Committee will meet in April to consider proposals for new or expanded research projects at Hubbard Brook. Deadline for proposals is March 15. Please see the instructions and online proposal form at: https://hubbardbrook.org/research/research-proposal-submission

The IF/THEN Exhibit, which features 120 statues of women in STEM (including Lindsey Rustad!) is coming to the National Mall March 5 - 7. Read about the exhibit <u>here</u>.

The Adirondack Research Consortium is holding a series of seminars titled 'Connecting Research with Communities' on Fridays in March, from 10am to 11am. Read more <u>here</u>.

The Forest Ecosystem Monitoring Cooperative (FEMC) program is seeking 9-12 undergraduate field technicians for Summer 2022. Students will conduct surveys for the Forest Health Monitoring (FHM) program. Please share with your network: https://www.uvm.edu/femc/attachments/project/999/

Hubbard Brook: The Story of a Forest Ecosystem by Holmes and Likens is currently <u>on</u> <u>sale</u> on Amazon for \$9.00!

Hubbard Brook Data Report

Submissions to the Environmental Data Initiative Repository (EDI; <u>https://portal.edirepository.org</u>) this month include both new datasets and additions to long-term datasets. These include updates to some of our important core long-term datasets – vegetation surveys, soil chemistry, leaf chemistry, and stream and lysimeter chemistry. When you use these, or any other Hubbard Brook data in a paper, please use the citations as shown here (also displayed on the dataset page on EDI). If a journal requests only dataset links, the DOI links shown in the citation should be use.

For questions about Hubbard Brook data, please contact: <u>nina.lany@usda.gov</u> – for questions about data collected by the US Forest Service <u>mary.martin@unh.edu</u> – for questions, instructions, and assistance in submitting your data to the repository.

New datasets:

Finestone, J., P.H. Templer, and J.M. Bhatnagar. 2022. Climate Change Across Seasons Experiment (CCASE) at the Hubbard Brook Experimental Forest: growth and enzyme activity traits of soil fungi isolated from CCASE in July 2017, grown under a common garden experiment in the laboratory that mimicked CCASE soil temperature treatments ver 1. Environmental Data Initiative.

https://doi.org/10.6073/pasta/f4a66de07c2945115956996dc8af980b (Accessed 2022-02-23).

Asbjornsen, H., M.A. Vadeboncoeur, K.A. Jennings, F.P. Bowles, P.H. Templer, and L.E. Rustad. 2022. Hubbard Brook Experimental Forest: Droughtnet soil moisture, temperature and soil water potential ver 1. Environmental Data Initiative. <u>https://doi.org/10.6073/pasta/2b4df9a8b2609490f8dfbd7e821ee04f</u> (Accessed 2022-02-23).

Updated datasets:

Johnson, C.E. 2022. Mass and Chemistry of Organic Horizons and Surface Mineral Soils on Watershed 6 at the Hubbard Brook Experimental Forest, 1976 - present ver 3. Environmental Data Initiative.

https://doi.org/10.6073/pasta/96ef3d45e9a7d719ae7731f0719bd483 (Accessed 2022-02-23).

Johnson, C.E. 2022. Mass and Chemistry of Organic Horizons and Surface Mineral Soils on Watershed 1 at the Hubbard Brook Experimental Forest 1996-present ver 3. Environmental Data Initiative.

https://doi.org/10.6073/pasta/7395cf86c134440f38d800ca59a4857b (Accessed 2022-03-01).

Johnson, C.E. 2022. Physical and chemical properties of soils on Watershed 5 of Hubbard Brook Experimental Forest, before and after whole-tree harvest ver 2. Environmental Data Initiative.

https://doi.org/10.6073/pasta/94c2fc88c81998855cd6f2dff9efbbf7 (Accessed 2022-03-01).

Battles, J.J., N. Cleavitt, and T. Fahey. 2022. Hubbard Brook Experimental Forest: Valleywide Plot Tree and Sapling Inventory – 1995, 2005, 2015 ver 6. Environmental Data Initiative. https://doi.org/10.6073/pasta/65b1f9e0111c189c68bc82083112fdeb (Accessed 2022-03-01).

Battles, J.J. and N. Cleavitt. 2022. Forest Inventory of a Northern Hardwood Forest: Bird Area, 1991 - present, Hubbard Brook Experimental Forest ver 5. Environmental Data Initiative.

https://doi.org/10.6073/pasta/58dfdebfd1b6440510def2394ab92c53 (Accessed 2022-03-01).

Fahey, T.J., L.H. Pardo, C.L. Goodale, and N.K. Lany. 2022. Hubbard Brook Experimental Forest: Watershed 6 Temporal Canopy Leaf Chemistry, 1992 - ongoing ver 6. Environmental Data Initiative. <u>https://doi.org/10.6073/pasta/906e9bfb1aa490aa14408c523cbb817c</u> (Accessed 2022-03-01).

Driscoll, C.T. 2022. Chemistry of freely-draining soil solutions at the Hubbard Brook Experimental Forest, Watershed 6, 1982 - present ver 18. Environmental Data Initiative. <u>https://doi.org/10.6073/pasta/bd7ba65a4b703760c82c4e16fe494fb6</u> (Accessed 2022-03-01).

Driscoll, C.T. 2022. Chemistry of freely-draining soil solutions at the Hubbard Brook Experimental Forest, Watershed 1, 1996 - present ver 11. Environmental Data Initiative. <u>https://doi.org/10.6073/pasta/90b588b9a04bfeefa29024929b0af1f4</u> (Accessed 2022-03-01).

Driscoll, C.T. 2022. Longitudinal Stream Chemistry at the Hubbard Brook Experimental Forest, Watershed 6, 1982 - present ver 12. Environmental Data Initiative. <u>https://doi.org/10.6073/pasta/dadda87fc9bf8bc0922455470562729b</u> (Accessed 2022-03-01).

Driscoll, C.T. 2022. Longitudinal Stream Chemistry at the Hubbard Brook Experimental Forest, Watershed 1, 1991 - present ver 8. Environmental Data Initiative. <u>https://doi.org/10.6073/pasta/aa8e75fee711567810e2843e6b344db8</u> (Accessed 2022-03-01).

Thanks for reading!