

HUBBARD BROOK MONTHLY June 2021 issue

Recent Publications

Berry, E and NL Cleavitt. 2021. Population dynamics and comparative demographics in sympatric populations of the round-leaved orchids *Platanthera macrophylla* and *P. orbiculata*. *Population Ecology*.
DOI: 10.1002/1438-390X.12092

Green, MB, SW Bailey, JL Campbell, KJ McGuire, AS Bailey, TJ Fahey, N Lany, D Zietlow. 2021. A catchment water balance assessment of an abrupt shift in evapotranspiration at the Hubbard Brook Experimental Forest, New Hampshire, USA. *Hydrological Processes*.
<https://onlinelibrary.wiley.com/doi/epdf/10.1002/hyp.14300>

Likens, GE, DC Buso, ES Bernhardt, E Rosi. 2021. A century of change: Reconstructing the biogeochemical history of Hubbard Brook. *Hydrological Processes*.
<https://doi.org/10.1002/hyp.14256>

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

Hubbard Brook in the News

The Long-Forgotten Predecessors of Her Deepness, Sylvia Earle*
by Eva Legge, Dartmouth College
[Lady Science](#)

Latria Graham Rewrites the Narrative on Being Black in the Outdoors*
by Eva Legge, Dartmouth College
[The Open Notebook](#)

In My Opinion: My Family's Culture of Clothing Reuse*
by Ananya Chandra, Syracuse University
[Resource Recycling](#)

Opinion: We Can End Lead Poisoning During This Lifetime*
by Jenny Bower, University of Vermont
[Undark Magazine](#)

*These pieces are outreach projects by participants in HBRF's new *Young Voices of Science* program.

Outreach and Education Update

Hubbard Brook officially has a new art-science project: *Ecology Extended*. Lindsey Rustad, artist Rita Leduc, and communicator Rich Blundell will explore the pathways by which the ecological dynamics of nature can extend into culture through visual art. Read more at the following link:
<https://broto.eco/collaboration-ecology-extended/>

On June 30, Elizabeth Jamison—a student at UVM and a participant in HBRF's *Young Voices of Science* program—was a panelist for Climate Action NH's Panel on Sustainable Forestry.
<https://www.mobilize.us/lcvnh/event/392551/>

Hubbard Brook DEI Committee Updates

The LTER DEI Committee's highlighted diversity, equity, inclusion, accessibility resource

of the month is: [Unlearning Racism in the GeoSciences](#) (URGE). Several LTER sites participated in this remarkable 16-week learning and strategizing experience. All can benefit from the lessons of the program by reading and using "[An actionable anti-racism plan for geoscience organizations](#)."

Save the Date

The 58th Hubbard Brook Annual Cooperators' Meeting will be held virtually **July 7-8, 2021**. Registration is now open at the following link:

https://docs.google.com/forms/d/e/1FAIpQLSfRj1il4MsYszXc1RP0ShZ0tzRw_yCGw0L2TmyVqK2qTvkZXw/viewform

The third annual Moss Storytelling Hour is **July 6, 5pm-6pm EDT**. This year's theme is "Friends Like These: Stories of Strong Bonds and Unlikely Love Affairs," with true stories told by Emily Bernhardt, Rebecca and Christine Bormann, Mike Hallworth, and Nick LoRusso.

Zoom details:

<https://us02web.zoom.us/j/87551891103?pwd=SEJCNE1wRXlY0eXd6Nkd1YXl4R1BGdz09>

Meeting ID: 875 5189 1103

Passcode: 002294

The first ever Hubbard Brook Community Showcase (aka talent show!) is **July 7, 5:30-6:30pm EDT**. See performances by Amey Bailey, Teddy Southard, Jenny Bower, Dan Clark, Lindsey Forg, Peter Groffman, Ian Halm, and Raisa Kochmaruk.

Zoom details:

<https://us02web.zoom.us/j/82478289732?pwd=OWE2L2hvRkpobW1mR2lZSXB0a2RIQT09>

Meeting ID: 824 7828 9732

Passcode: 432325

Hubbard Brook Data Report

The Hubbard Brook Data Catalog is steadily growing—many thanks to all those who are working hard to update longterm datasets, and contribute new! We've just reached a milestone with the addition of 100 NEW datasets since our last LTER renewal proposal. Citations for new and updated datasets since the last report in the HB Monthly are below. We have identified at least 75 more datasets that are likely to be contributed to the Environmental Data Initiative Repository (EDI) in the upcoming year. Although that seems like a big number, I'm sure we're overlooking some—so please think about any data you may have from students or smaller offshoot projects—it's all worth preserving!

For questions about Hubbard Brook data, please contact:

nina.lany@usda.gov—for questions about data collected by the US Forest Service
mary.martin@unh.edu—for questions and instructions on submitting your data to the repository

Updated precipitation datasets are now complete through April 30 2021.

USDA Forest Service, Northern Research Station. 2021. Hubbard Brook Experimental Forest: 15-minute Precipitation Measurements, 2011 - present ver 3. Environmental Data Initiative. <https://doi.org/10.6073/pasta/71569d205d46c7b8291d6d120e4f94ee>

USDA Forest Service, Northern Research Station. 2021. Hubbard Brook Experimental Forest: Daily Precipitation Rain Gage Measurements, 1956 - present ver 16. Environmental Data Initiative. <https://doi.org/10.6073/pasta/1391b5fa8c342a30df1957a78b38096e>

USDA Forest Service, Northern Research Station. 2021. Hubbard Brook Experimental

Forest: Total Daily Precipitation by Watershed, 1956 - present ver 14. Environmental Data Initiative. <https://doi.org/10.6073/pasta/dc5880a6956f0cdd706d1c13b13e23c3>

Updates to the datasets maintained by the HBWaTER team. This recent update includes weekly stream and precipitation chemistry. Monthly flux data derived from these data are being finalized now, and will be published very soon.

Hubbard Brook Watershed Ecosystem Record (HBWaTER). 2021. Continuous precipitation and stream chemistry data, Hubbard Brook Ecosystem Study, 1963 – present. ver 5. Environmental Data Initiative.

<https://doi.org/10.6073/pasta/925f84652f1d8590de1da00bd136b005>

New datasets:

Whittaker, R.H., T.G. Siccama, J.J. Battles, and M.A. Vadeboncoeur. 2021. Hubbard Brook Experimental Forest: Tree component masses sampled west of watershed 6 by Whittaker et al in 1965 ver 1. Environmental Data Initiative.

<https://doi.org/10.6073/pasta/74d03184e07061ae1bd70054e220deb1>

Campbell, J.L., L.E. Rustad, and C.T. Driscoll. 2021. Lysimeter chemistry from the Ice Storm Experiment (ISE) at the Hubbard Brook Experimental Forest ver 1. Environmental Data Initiative. <https://doi.org/10.6073/pasta/baec4331be3f347ae01b803ede791146>

Campbell, J.L., L.E. Rustad, and T.J. Fahey. 2021. Soil respiration from the Ice Storm Experiment (ISE) at the Hubbard Brook Experimental Forest ver 1. Environmental Data Initiative. <https://doi.org/10.6073/pasta/3290b05fa889644a97a92ee6dc04a9e0>

Rustad, L., J. Campbell, and W.M. Leuenberger. 2021. Coarse Woody Debris of the Ice Storm Experiment (ISE) plots at the Hubbard Brook Experimental Forest ver 1. Environmental Data Initiative.

<https://doi.org/10.6073/pasta/775d52a7665cc35574bca97e79fdd3c3>

Lang, A.K., F.V. Jevon, A.A. Fitch, J. Hatala Matthes, M.P. Ayres, and C.E. Hicks Pries. 2021. SOM density fractions beneath trees of different mycorrhizal types in New England forests ver 1. Environmental Data Initiative.

<https://doi.org/10.6073/pasta/a3dcb9cf6ae9e1d29daea46c2c122123>

Fahey, T. and N. Cleavitt. 2021. Tree Seed Data at the Hubbard Brook Experimental Forest, 1993 - present ver 2. Environmental Data Initiative.

<https://doi.org/10.6073/pasta/3d6b29aa80b150e5a9e28a839c05c211>

Groffman, P.M. and L.D. Martel. 2021. Measurements of microbial biomass and activity in two snow manipulation experiments at Hubbard Brook Experimental Forest 1998 – 2004 ver 1. Environmental Data Initiative.

<https://doi.org/10.6073/pasta/d662b16cc585094d49a5afe34eb28de3>

Updated long-term data:

Fahey, T. and N. Cleavitt. 2021. Fine Litterfall Data at the Hubbard Brook Experimental Forest, 1992 - present ver 7. Environmental Data Initiative.

<https://doi.org/10.6073/pasta/5b0aa0348f2f7289388085f67029970c>

Just For Fun...



The bird crew enjoys a Science Night with special guest Dick Holmes on the porch at Pleasant View Farm last week. Photo: Matt Ayres

Thanks for reading!