

HUBBARD BROOK MONTHLY March 2024 issue

Recent Publications

Pennino, AM, BS Strahm, KJ McGuire, JA Bower, SW Bailey, ME Schreiber, DS Ross, SA Duston, and JR Benton. 2024. Forest Catchment Structure Mediates Shallow Subsurface Flow and Soil Base Cation Fluxes.

<http://dx.doi.org/10.2139/ssrn.4772676>

Zammarelli, M, M Ayres, H ter Hofstede, D Lutz, and R Holmes. 2024. Territory sizes and patterns of habitat use by forest birds over five decades: Ideal free or ideal despotic?

<https://doi.org/10.22541/au.171164876.66594408/v1>

Hubbard Brook in the News

Opinion: For foresters, biologists, and lovers of science, maintain the Bartlett Experimental Forest

[The Concord Monitor](#)

Remaining Relevant: the Hubbard Brook Online Book

[LTER Newsletter](#)

Winter lasted just 37 days on Lake Winnepesaukee

[Granite Geek](#)

Announcements

Meetings in July:

Hubbard Brook Annual Cooperators' Meeting

Date: July 10-11, 2024

Location: Merrill Place Conference Center, Plymouth State University

Barn Dinner & Entertainment

Date: July 10

Location: USDA Forest Service Northern Research Station Building

Field Trips

Date: July 11

Location: The Hubbard Brook Experimental Forest

Hubbard Brook Quarterly Project Meeting

Date: July 12, 2024

Location: USDA Forest Service, Northern Research Station, in person

(registration and lodging details to follow)

Please forward any questions about these meetings to westneyh@caryinstitute.org.

* Registration for the Annual Cooperators' Meeting and July Quarterly Project Meeting will open mid-April. To receive announcements and updated information regarding these events, please write Mary Martin a.s.a.p. at mary.martin@unh.edu to request that you be added to the Hubbard Brook email listserv (if you are not already on it).

Staff Transition

Dan Clark will be moving on from his role as the HBRF Facilities Manager on May 17.

Dan joined the HBRF team in August 2019, and has managed and maintained the Pleasant View Farm and Mirror Lake facilities year-round. Please wish Dan the best as he embarks on his journey as a full-time chef, and stay tuned for updates on the opening of his new food truck!

Summer Opportunity

Please see this note from Suzanne Pierre: We are seeking a Graduate Summer Assistant (20 hr/week; May- August 2024) to support the development of a new research focus of the Hubbard Brook Ecosystem Study. Hubbard Brook investigators will be leading critical ecological synthesis research that will quantify human dimensions of social and economic equity as potential drivers of long-term ecological and biogeochemical patterns measured at Hubbard Brook. Please refer to this [job announcement](#) for details (also attached to this email). Current students from [backgrounds that are underrepresented in the Earth and environmental sciences](#) are encouraged to apply.

Application Form: <https://forms.gle/eZTkz8yReSdYKA9e9>

Please contact Dr. Suzanne Pierre with questions: spierre.cel@gmail.com

More about the Critical Ecology Lab can be found [at our website](#).

Please see this announcement from Jenna Zukswert: The Northern Research Station is collaborating with the Northern Institute of Applied Climate Science and the USDA Northeast and Northern Forests Climate Hubs to present *Rooted in Research: Changing Hydrology, Changing Landscapes*, a 4-part webinar mini-series exploring research and management solutions related to extreme rain and flooding in forests, cities, and agricultural lands. John Campbell will present on the long-term precipitation and streamflow records at Hubbard Brook as part of the first webinar on May 1: Changing Hydrology in Northeastern Forests. You can register [here](#).

[Here](#) is a link to the full webinar series.

[Here](#) is a link to the webinar featuring John's presentation.

Dayna's DEI Digest

Gearin' Up for Hubbard Brook's Field Season!

Dayna De La Cruz (She/They)
Community Relations Specialist

Dust off your hiking boots and pack your hefty backpack! As the days grow longer and the field season creeps closer, we are gearing up for a successful summer! But preparation isn't just about gear - here is a sneak peek of what we have been working on:

Hubbard Brook Checklists: With the help of feedback from the DEIA Committee, PI's and past residents including graduate and undergrad students, we now have new and improved versions of the Hubbard Brook Hiring Checklist + Guidelines and Expectations Checklist! These checklists are optional tools that are readily available to our community.

- Hiring Checklist: An optional tool for PIs/field crew members to use during the hiring process to help improve communication about job requirements
- Guidelines and Expectations Checklist: An optional tool to facilitate communication about expectations within field crews (members, PI's, visitors, etc.) and among residents.

Housing Survey: The optional Housing Survey is meant to help improve housing arrangements and provide a safe and inclusive housing experience for everyone. It asks questions pertaining to:

- Gender Identity
- Preferred Gender Identity of Roommate(s)
- Compatibility Questions that are related to Cleanliness Level, Sleeping Schedule, Noise Level Preference, Free Time Interests, Friendship Expectation etc

We are doing things slightly different this year. We are still sending out an optional [Housing Survey](#). However, we would like for this process to be useful to you all and be more of a collaboration. We understand that each field crew and institution may have their own method of rooming arranging, so we will be providing the survey responses that we receive to the respective PI's/field crew leaders in the form of an excel sheet. Feel free to use [this link](#) to send to your crews if you find this helpful. The form deadline is Friday, April 19th.

Hubbard Brook Orientation: We have two official dates for the mandatory Hubbard Brook

Zoom Orientation: Monday, April 22nd and Thursday, April 25th. Here, future residents will get to know those in their community, revise housing/code of conduct policies and answer any questions. Both dates will be the same event so attendance to only one of the orientations is needed. Official times will be selected and announced later this month.

One of our goals for this season is to improve the communication we have with folks bringing/leading crews on site in order for us to have all the updated information that we need to continue moving forward (arrival dates, departure dates, emergency contact forms, names of students, etc.). So we are hoping this will continue improving. Please feel free to reach out with any questions, and I am looking forward to a great field season!
ddelacruz@hubbardbrookfoundation.org.

Hubbard Brook Non-Sequitur

Snippets of intriguing conversation and writing, taken out of context.

"Hello fellow humans, would you like to science with us?"

~~ Hannah Volmer, on interacting with the public whilst staffing event tables

"You are stuck with your brain, so make it a good one."

~~ Geoff Wilson, on brains

Shout-outs

Nat Cleavitt gives a shout out to Mary Martin: "Her efficiency and forward thinking have kept us ahead of the game in data curation and now she is taking on the task of uniting the Graduate students and updating data graphs in the online book. She is one of my HB Heroes!"

Raisa Kochmaruk gives a shout-out to Geoff Wilson "for being a bright sun on cloudy days."

Hubbard Brook Data Report

The following datasets (new and revised) have been published to the Environmental Data Initiative Repository (EDI) during the past month.

Hubbard Brook Watershed Ecosystem Record (HBWatER). 2024. The Hubbard Brook Stream Ecology Record: Light, 2018 - ongoing ver 1. Environmental Data Initiative.
<https://doi.org/10.6073/pasta/0f40b75b299494d736645d940fa2b5a4>
(Accessed 2024-04-02).

Hubbard Brook Watershed Ecosystem Record (HBWatER). 2024. The Hubbard Brook Stream Ecology Record: Algal Biomass (Chlorophyll-a), 2018 - ongoing ver 1. Environmental Data Initiative.
<https://doi.org/10.6073/pasta/7fa32d94240fc7780d62cb7e65eafdb2>
(Accessed 2024-04-02).

Johnson, C.E. 2024. Mass and Chemistry of Organic Horizons and Surface Mineral Soils on Watershed 6 at the Hubbard Brook Experimental Forest, 1976 - present ver 4. Environmental Data Initiative.
<https://doi.org/10.6073/pasta/ab29c15538e75cafd4a43a30d8033cec>
(Accessed 2024-04-02).

USDA Forest Service, Northern Research Station. 2024. Hubbard Brook Experimental Forest: Instantaneous Streamflow by Watershed, 1956 – present ver 17. Environmental Data Initiative.
<https://doi.org/10.6073/pasta/62e4a77cb23b70fd9164520f129a25ac>
(Accessed 2024-04-02).

USDA Forest Service, Northern Research Station. 2024. Hubbard Brook Experimental Forest: Daily Streamflow by Watershed, 1956 - present ver 14. Environmental Data Initiative.
<https://doi.org/10.6073/pasta/67df3a028faf70827b43f2a525190d9c>

(Accessed 2024-04-02).

Fraser, O.L., J.P. Gannon, S.W. Bailey, and K.J. McGuire. 2024. Hubbard Brook Experimental Forest: Soil type prediction raster files ver 1. Environmental Data Initiative.

<https://doi.org/10.6073/pasta/48cf92d3fb4875ad399ff86f7d8d17d4>

(Accessed 2024-04-02).

Zukswert, J.M. 2024. Multiple Element Limitation in Northeast Hardwood Ecosystems (MELNHE): Foliage Scans and Photographs ver 1. Environmental Data Initiative.

<https://doi.org/10.6073/pasta/da2ee5fa9f874a6a8c93eecd58902561>

(Accessed 2024-04-02).

Zukswert, J.M., S.D. Hong, K.E. Gonzales, C.R. See, and R.D. Yanai. 2024. Multiple Element Limitation in Northeast Hardwood Ecosystems (MELNHE): Foliar Chemistry 2008-2022 in Bartlett, Hubbard Brook, and Jeffers Brook ver 3. Environmental Data Initiative.

<https://doi.org/10.6073/pasta/cdf7e7456a8fd43a4e773ad286e4a2ff>

(Accessed 2024-04-03).

Battles, J.J. and N. Cleavitt. 2024. Forest Inventory of a Northern Hardwood Forest: Bird Area, 1991 - present, Hubbard Brook Experimental Forest ver 6. Environmental Data Initiative.

<https://doi.org/10.6073/pasta/b3fd0fc3143dd573bfbb161eda9119a1>

(Accessed 2024-04-02).

Battles, J.J. and N. Cleavitt. 2024. Ten-year interval tree-remeasure of a Northern Hardwood Forest: Bird Area, 1981 - ongoing, Hubbard Brook Experimental Forest ver 1. Environmental Data Initiative.

<https://doi.org/10.6073/pasta/907f030b3bd105c7636f20e6b0e7b3e1>

(Accessed 2024-04-03).

Thanks for reading!

Hubbard Brook Research Foundation | 30 Pleasant St., Woodstock, VT 05091

[Unsubscribe alavallee@hbresearchfoundation.org](mailto:Unsubscribe.alavallee@hbresearchfoundation.org)

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