

HUBBARD BROOK MONTHLY February 2024 issue

Recent Publications

Robinson, AL, LE Koenig, JD Potter, LE Snyder, CW Hunt, WH McDowell, WM Wolheim. 2024. Lotic-SIPCO2: Adaptation of an open-source CO2 sensor system and examination of associated emission uncertainties across a range of stream sizes and land uses. ASLO. <https://doi.org/10.1002/lom3.10600>

Education and Outreach

Please see the following updates from Lindsey: Lindsey Rustad gave a talk on "[Water Cycle Art: Confluence of Science, Art and Society at Forest Youth Day](#)" on Feb 25 as part of the Kennedy Center's Reach to Forest program in Washington, DC. She also ran a youth engagement on "A Postcard to a Forest". From Lindsey--The kids colored post cards and wrote a note thanking the forests and scientists for all they do. Look for Hubbard Brook post cards on the bulletin board at HQ soon! We estimate we reached ~600 kids in this event!

Lindsey Rustad was part of an If/Then series for an education program called "Exploring by the Seat of Your Pants", which was geared towards middle schoolers. Lindsey presented her "Near Miss" Ice storm story, and shared additional stories about science and careers. Listen in at: [Understanding and Healing Forests with Dr. Lindsey Rustad \(youtube.com\)](#).

Lindsey Rustad presented on "Ice Storms in the Northeast" in the "Forest Service Rooted in Research: Adapting to Extreme Weather Wildcards" series, which was geared towards scientists and forest managers. For more info, see: [Ice Storms in the Northeast | US Forest Service Research and Development \(usda.gov\)](#)

Hubbard Brook's WaterViz has been included in a new online exhibition called [Reverberations](#), which was co-produced by the US Forest Service and the Nature of Cities. Reverberations mixes art, science, and sound, and aims to "provoke a sense of surprise to inspire curiosity in the ecosystems that we live in, and create connections to those ecosystems regardless of where we are located" (from the press release.)

Hubbard Brook in the News

Editor's Notebook: All these years later and Mother Nature is still on the run
[NH Bulletin Commentary](#)

How can cities help the climate crisis?
[Columbia News](#)

[How ebbing snow cover affects plants and animals
Northern Woodlands](#)

The USDA Northeast Climate Hub is excited to introduce four distinguished artists for the 2024 'Arts for Climate Equity' project.
[USDA Climate Hubs](#)

Reach to the forest highlights value of nature
[USDA](#)

Announcements

Please see this announcement from Gene Likens: a [memorial](#) for Jon Cole, who passed away in July 2023, can be found in the ASLO newsletter. Another will soon be published by the National Academy of Sciences.

Please see this announcement from Lindsey Rustad: Arts and Climate Equity! The USDA Forest Service in collaboration with the USDA Northeast Climate Hub and The Nature of Cities is excited to announce four new artist residencies around the topic of Climate Equity. Two will be stationed in an urban environment, in New York City, and two are coming to Hubbard Brook this summer. We welcome back artist Xavier Cortada and extend a warm welcome to Carolyn Lambert as the Hubbard Brook Climate Equity Artists in Residence for summer 2024! Press release here: [2024_Press Release with projects \(thenatureofcities.com\)](#)

News from the LTER Network Office:

Join the NEW LTER Community Forum! Filtering through information about the 28 LTER sites can be overwhelming when you're looking for people, research methods, and experiences relevant to your project or idea. This new [forum](#) can help you navigate the wealth of knowledge and connections available to you in the LTER Network. Register to connect with your peers from other sites!

LTER Community Calls are another new initiative from the LTER Network starting in January 2024. These open discussions will focus on community-proposed topics. Learn more or propose a topic [here](#).

The **Spring** Quarterly Project Meeting will be held virtually on Wednesday, April 10, 2024, from 10am to 3pm, with a possible earlier end time. The topic will be Carbon (with more details to come) and the organizers will be Lynn Christenson, Pam Templer, and Chris Solomon.

Dayna's DEI Digest

Hubbard Brook REU's & Mentor Expectations

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

Did you know that the Hubbard Brook Research Foundation has two REU positions that we administer with funding through the LTER award (Research Experiences for Undergraduates)? And this year, we decided to change things up a bit regarding mentorship selection!

The REU program includes a \$5,500 stipend, free housing at HBRF, and allowances of \$410 each for equipment and for travel. The students must pay their own living costs (food, clothing, etc.), but if they need specialized field clothing like heavy-duty boots, gloves, etc., it can be covered by the equipment allowance (*students will purchase and will be reimbursed*). The travel allowance can be used for transportation from their home to and from HBRF as well as travel required by their position, but it cannot be used for recreational or personal travel.

In order to make sure we are circulating this amazing opportunity across all interested and qualified mentors in the community, we decided to create the [Hubbard Brook REU Mentor Application](#). In this form, we ask mentors if they can meet all Hubbard Brook Mentor Expectations which we adapted from the [SEEDS Partnerships for Undergraduate Research \(SPUR\) Expectations for Mentors](#).

The deadline for this round has passed, but this process is expected to begin earlier next season during the month of November - so keep an eye out! You can find both Summer 2024 REU positions (along with other summer opportunities) on the [Hubbard Brook website](#). Please share with your networks, and we are looking forward to meeting our REU's this summer!

Have any suggestions? Don't hesitate to reach out to me:
ddelacruz@hubbardbrookfoundation.org.

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

Hubbard Brook Data Report

For researchers interested in water chemistry at Hubbard Brook, please note that the streamwater and precipitation chemistry long-term data have been updated (link below). Also be sure to visit <https://hbwater.org>, a website developed and maintained by the team from Duke University. At this site, you will be able to explore Hubbard Brook water chemistry through customizable interactive graphs. At the 'Sample Archive' tab on that site, you can also browse/filter/search through a table that joins barcodes, physical sample attributes and analytical chemistry.

The following datasets have been updated during the past month.

Bailey, S.W. 2024. Hubbard Brook Experimental Forest: Soil Profiles (Pedons), 1995-2022 ver 2. Environmental Data Initiative.

<https://doi.org/10.6073/pasta/e413be5a20ef9cf5344c7d7855a71c70>

(Accessed 2024-03-05).

Cleavitt, N.L. 2024. Hubbard Brook Experimental Forest: Annual measurements on marked northern red oak seedlings, 2014-ongoing ver 2. Environmental Data Initiative.

<https://doi.org/10.6073/pasta/1030af44239528ce4e17f7f585d00462>

(Accessed 2024-03-05).

Hubbard Brook Watershed Ecosystem Record (HBWatER). 2024. Continuous precipitation and stream chemistry data, Hubbard Brook Ecosystem Study, 1963 – ongoing. ver 10. Environmental Data Initiative.

<https://doi.org/10.6073/pasta/d2134b69e922988cb056a3c1a837e459>

(Accessed 2024-03-05).

Bailey, S.W., J.P. Gannon, K.J. McGuire, M.B. Green, and A.M. Pennino. 2024. Hubbard Brook Experimental Forest: Watershed 3 well water level recordings, 2007 - ongoing ver 4. Environmental Data Initiative.

<https://doi.org/10.6073/pasta/210b60a3d2f5ee2bb2635ee2fb33b637>

(Accessed 2024-03-05).

Cleavitt, N.L. and J. Battles. 2024. Hubbard Brook Experimental Forest: Oak seedling demography, 2011 - ongoing ver 2. Environmental Data Initiative.

<https://doi.org/10.6073/pasta/1de25c7fd5bc23dc39171d66b29652ac>

(Accessed 2024-03-05).

Thanks for reading!

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