

HUBBARD BROOK MONTHLY July 2022 issue

Recent Publications

Templer, PH, J Harrison, F Pilotto, A Flores-Diaz, P Haase, WH McDowell, R Sharif, H Shibata, D Blankman, A Avila, U Baatar, HR Bogen, I Bourgeois, J Campbell, T Dirnbock, WK Dodds, M Hauken, I Kokorite, K Lajtha, IL Lai, H Laudon, TC Lin, SRM Lins, H Meeseburg, P Pinho, A Robinson, M Rogora, B Scheler, P Schleppi, R Sommaruga, T Staszewski, M Taka. 2022. Atmospheric Deposition and Precipitation are Important Predictors of Inorganic Nitrogen Export to Streams from Forest and Grassland Watersheds: A Large-Scale Data Synthesis. *Biogeochemistry*, in press. The paper includes data from Hubbard Brook, which is published here: <https://portal.edirepository.org/nis/mapbrowse?packageid=edi.1066.1>

Addis, R, and WH Lowe. 2022. Environmentally associated variation in dispersal distance affects inbreeding risk in a stream salamander. *The American Naturalist*. <https://doi.org/10.1086/721763>

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

Outreach and Education Update

On July 13 and 14, the 2022 Hubbard Brook Annual Cooperators' meeting was held at the Merrill Place Conference Center at Plymouth State University. Over 150 attendees gathered in person to watch scientific and outreach presentations by students, scientists, and Hubbard Brook staff. Many more joined over zoom. The conference on Wednesday was followed by a cookout and tent dance at Pleasant View Farm, accompanied by the music of a local band, and our own Amey Bailey.

On July 12, an Ecology Extended talk titled 'Climate Changing Minds' was given at the Museum of the White Mountains in Plymouth, NH, as part of the museum's programming for the exhibition, "Watching the Seasons Change".

From June 26 to 29, an Ecology Extended workshop titled 'Embodied, and Enacted' took place at Art.Earth's conference, "Sentient Performativities: Thinking Alongside the Human" at Dartington Hall, Totnes, UK.

Shout-Outs

Lindsey Rustad gives a Shout Out to all the folks who made the Annual cooperators' meeting a success, including providing a ZOOM link for those of us who could not attend!

Announcements

The Hubbard Brook Experimental Forest (HBEF) is looking for a field technician to help maintain site infrastructure, collect long-term data, communicate with outside groups, and assist with several ongoing research projects. Interested candidates should submit a resume to John Campbell (john.campbell2@usda.gov). Applications will be accepted through August 19, 2022.

Hubbard Brook Data Report

If you were at the Cooperators' Meeting, you may have seen Alex Young's talk on updating the figures in the Hubbard Brook Online Research Synthesis Book. Alex is working with chapter authors to develop R code that reads the most up-to-date data directly from the Environmental Data Initiative Repository and generates new figures for the book chapters.

Here's an example – figure 7 in this chapter:

<https://hubbardbrook.org/online-book-chapter/forest-composition-and-dynamics/>

These graphs are fully interactive – just hover over the graph, and a control bar will pop up – there you can zoom, pan, and view values, and by clicking on the legend you can select which lines to display. The code to read data and create the graphs is in github, and we'll be sharing that link soon. In the meantime, you can reach out to us if the code would be helpful.

For Hubbard Brook GIS data users, all data layers are available in EDI, and for your convenience, they can be downloaded as a bundle with a corresponding QGIS project to give you a jump-start on Hubbard Brook mapping (send request for the bundle to mary.martin@unh.edu).

Hubbard Brook researchers also use data from the broader state-wide GIS Clearinghouse. Last week, NH GRANIT launched a new website at <https://granit.unh.edu>.

The NH GRANIT GIS Clearinghouse provides access to LiDAR data (and derived topographic coverages), image data, and hundreds of other statewide and regional data coverages. Just recently, a statewide image collection at 6" resolution has been completed. These data will go through an extended period of QC review, after which they will be available via NH GRANIT. To keep up with the latest data released from NH GRANIT, visit <https://twitter.com/nhgranit> or @nhgranit.

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, instructions, and assistance in submitting your data to the repository.

New datasets:

Campbell, J., L. Rustad, and C. Driscoll. 2022. Hubbard Brook Experimental Forest: Ice Storm Experiment (ISE) Canopy Hemispherical Photos ver 1. Environmental Data <https://doi.org/10.6073/pasta/aa1ec68480b0d83a0abe4b3552f28f77> (Accessed 2022-08-03).

Thanks for reading!