February 7th, 2023

HUBBARD BROOK MONTHLY January 2023 issue

Recent Publications

Gill, AL, RM Grinder, CR See, FS Chapin III, LC DeLancey, MC Fisk, PM Groffman, T Harms, SE Hobbie, JD Knoepp, JMH Knop, M Mack, PB Reich, and AD Keiser. 2022. Soil carbon availability decouples net nitrogen mineralization and net nitrification across United States Long Term Ecological Research sites. Biogeochemistry. <u>https://doi.org/10.1007/s10533-022-01011-w</u>

Halpern, BS, C Boettiger, MC Dietze, JA Gephart, P Gonzalez, NB Grimm, PM Groffman, et al. 2023. Priorities for Synthesis Research in Ecology and Environmental Science. Ecosphere 14(1): e4342. https://doi.org/10.1002/ecs2.4342

Hubbard Brook in the News

2023 January Quarterly Project Meeting at Vassar College <u>Hubbard Brook News</u>

A Warmer, Wetter World Could Make 'Enhanced Rock Weathering' a More Useful Tool to Slow Climate Change Inside Climate News

Can art help teach science to scientists? Concord Monitor

Museum exhibit about Hubbard Brook Experimental Forest Concord Monitor

PSU museum to host lecture on the NH forest where researchers first discovered acid rain Laconia Daily Sun

Outreach and Education Update

On January 24-27, Hubbard Brook and the Museum of the White Mountains hosted a conference on the <u>Hubbard Brook Art-Science Program</u>, which has brought visual, sound, and digital artists to interpret the forest and work with scientists for over 15 years. Invited artists and collaborators shared their recent projects, viewed many of their former works on display at the Field Station Exhibit at the Museum of the White Mountains, and held a planning session on the future of the program.

At the annual meeting of the American Meteorological Society in Denver, Colorado, on January 7-12, Eric Kelsey and his REU students presented the following posters:

- Ingalls, G., J. Coley, and E.P. Kelsey, 2023: Conditions for Cold Season Cold Air Pool Dissipation in the Hubbard Brook Experimental Forest, New Hampshire. American Meteorological Society 103rd Annual Meeting, Denver, Colorado, 7-12 January 2023.
- Coley, J., G. Ingalls, and E.P. Kelsey, 2023: Conditions for Cold Air Pool Formation in the Hubbard Brook Experimental Forest. American Meteorological Society 103rd Annual Meeting, Denver, Colorado, 7-12 January 2023.
- Kelsey, E.P., M. Green, and D. Evans, 2023: How Synoptic Patterns Modulate Evapotranspiration and Carbon Uptake in a Temperate Mixed Hardwood Forest in New England. American Meteorological Society 103rd Annual Meeting, Denver, Colorado, 7-12 January 2023.

Announcements

See this announcement from John Campbell:

Jane Hislop retired after 44 years with the Forest Service. Throughout her career, Jane worked in the analytical laboratory in Durham, NH and ran countless samples collected at Hubbard Brook. A retirement party was held on January 27, which was Jane's last day. The event brought together many past and present Hubbard Brook Forest Service employees.

See this announcement from Anant Sundaram:

The *Handbook of Business and Climate Change*, co-edited by HBRF Trustee Anant Sundaram (and his Tuck School colleague, Bob Hansen), was released on January 24, 2023 by Edward Elgar Publishing. The outcome of nearly three years of work shepherding 23 chapters from 41 authors, it is the first ever handbook – perhaps even the *first book* – on the topic. Recognizing the fact that businesses are the dominant source of direct GHG emissions, the *Handbook* addresses how they will be the solution to the problem of climate change by developing/deploying the talent, the resources and the technologies for decarbonization. It also delves into how climate issues have become top-of-agenda items for corporate leaders and boards worldwide. The *Handbook* takes an in-depth look at how firms are – and should be – thinking about solutions across every part of the value chain. Contributions from a global collection of scholars and practitioners explore a broad range of key industries' impacts and responses to climate change, examining corporate strategy and leadership in the climate economy, climate finance, functional perspectives and corporate practice.

More information on the *Handbook* can be found <u>here</u>, and the introductory chapter, as well as the table of contents and list of contributors/reviewers <u>here</u>. Members of the community who are intrigued or interested to know more are welcome to get in touch with Anant at <u>anant.sundaram@dartmouth.edu</u>

Hubbard Brook Data Report

It's never too early to start making a plan for your data submissions to the Environmental Data Initiative Repository (EDI; <u>https://edirepository.org</u>)! If you've submitted data before, you know the routine. If you will be collecting/submitting data for the first time at Hubbard Brook, please contact <u>mary.martin@unh.edu</u> for assistance in making a data publication plan so that you'll have data citations ready when submitting manuscripts and funding reports. With regard to funding reports, all of the Hubbard Brook datasets are registered and discoverable in the NSF Public Access Repository (PAR; <u>https://par.nsf.gov/</u>).

They are tagged with the HBR-LTER grant number, and you can also add grant number tags in PAR if your data collection was supported by other NSF grants. Reach out to Mary for instruction on how to do this.

New and updated datasets:

Lowe, W.H., B.R. Addis, M. Cochrane, and L.K. Swartz. 2023. Mark-recapture data of the northern spring salamander (Gyrinophilus porphyriticus) in support of 2023 Lowe et al. Ecology ver 1. Environmental Data Initiative. <u>https://doi.org/10.6073/pasta/a31de7704466bc78061ee332704f6f18</u> (Accessed 2023-01-26).

Bailey, S.W., J.P. Gannon, K.J. McGuire, L.H. Pardo, and A.M. Pennino. 2023. Hubbard Brook Experimental Forest: Watershed 3 Subsurface Water Chemistry ver 3. Environmental Data Initiative. <u>https://doi.org/10.6073/pasta/d82538ddccb6b97906050e6e45cb816a</u> (Accessed 2023-01-26).

Bower, J.A., A.M. Pennino, and K.J. McGuire. 2023. Hubbard Brook Experimental Forest: Watershed 3 Lateral Weathering Soil Chemistry ver 1. Environmental Data Initiative. <u>https://doi.org/10.6073/pasta/7348ab7d97a765b612687ba547a7aa47</u> (Accessed 2023-01-26). Pennino, A.M., M.J. Kevin, S.D. Brian, and B.W. Scott. 2023. Hubbard Brook Experimental Forest: Watershed 3 – One year of resin-extracted solutes from variably saturated soils ver 1. Environmental Data Initiative. <u>https://doi.org/10.6073/pasta/190016c488c93e636423ae74b59e38a1</u> (Accessed 2023-01-26).

Thanks for reading!