

2021 NADP Reference Listing

Includes 223 publications that used NADP data, made comparisons to NADP data, or resulted from NRSP-3 activities in 2021. A publically available listing of all citations using NADP data is accessible at: <https://nadp.slh.wisc.edu/pubs/nadp-bibliography/>.

1. Abbaspour, A., & Tanyu, B., 2021. Effects of field stockpiling on leaching calcareous constituents from recycled concrete aggregate to be used as unbound base course/subbase material. *Journal of Innovative Transportation* 1(2): 1203.
2. Adams, M. B., & Cook, G. W., 2021. Western Allegheny Plateau: Fernow Experimental Forest, West Virginia. In *Biological Responses to Stream Nutrients: A Synthesis of Science From Experimental Forests and Ranges*, Chapter 12, page 319.
3. Adler, T., Underwood, K., Rizzo, D., Harpold, A., Sterle, G., Li, L., ... & Perdrial, J., 2021. Drivers of Dissolved Organic Carbon Mobilization From Forested Headwater Catchments: A Multi Scaled Approach. *Frontiers in Water* 3: 63.
4. Anderson, S. P., Kelly, P. J., Hoffman, N., Barnhart, K., Befus, K., & Ouimet, W., 2021. Is this steady state? Weathering and critical zone architecture in Gordon Gulch, Colorado Front Range. In *Hydrogeology, Chemical Weathering, and Soil Formation, Geophysical Monograph* 257: 231-252.
5. Andrews, W. A., 2021. Identifying Unknown Sources of Nitrate in Two Central Illinois Watersheds. Master's Thesis, Department of Geography, Geology, and the Environment, Illinois State University.
6. Angot, H., Rutkowski, E., Sargent, M., Wofsy, S. C., Hutyra, L. R., Howard, D., ... & Selin, N. E., 2021. Atmospheric mercury sources in a coastal-urban environment: a case study in Boston, Massachusetts, USA. *Environmental Science: Processes and Impacts* 23(12): 1914-1929.
7. Appel, K. W., Bash, J. O., Fahey, K. M., Foley, K. M., Gilliam, R. C., Hogrefe, C., ... & Wong, D. C., 2021. The Community Multiscale Air Quality (CMAQ) model versions 5.3 and 5.3.1: system updates and evaluation. *Geoscientific Model Development* 14(5): 2867-2897.
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10. Baraza, T., & Hasenmueller, E. A., 2021. Road salt retention and transport through vadose zone soils to shallow groundwater. *Science of The Total Environment* 755: 142240.
11. Baron, J. S., Clow, D. W., Oleksy, I. A., Weinmann, T., Charlton, C., & Jayo, A., 2021. Long-term ecosystem and biogeochemical research in Loch Vale watershed, Rocky Mountain National Park, Colorado. *Hydrological Processes* 35(3): e14107.
12. Barrus, S. M., 2021. Improvements of Atmospheric Deposition Sampling Procedures and Further Analysis of its Impact on Utah Lake. Master's Thesis, Department of Civil and Environmental Engineering. Brigham Young University.
13. Barrus, S. M., Williams, G. P., Miller, A. W., Borup, M. B., Merritt, L. B., Richards, D. C., & Miller, T. G., 2021. Nutrient Atmospheric Deposition on Utah Lake: A Comparison of Sampling and Analytical Methods. *Hydrology* 8(3): 123.
14. Beard, J. M., and R. A. Murphy, 2021. *Environmental Chemistry in Society*. CRC Press.
15. Beier, C., Mills, J., McHale, P., Driscoll, C. T., & Mitchell, M. J., 2021. Long-term ecosystem monitoring at Huntington Forest: Integrating hydrology, biogeochemistry and climatic controls on watershed processes. *Hydrological Processes* 35(8): e14328.
16. Bingham, N. L., Slessarev, E. W., Homyak, P. M., & Chadwick, O. A., 2021. Rock-sourced nitrogen in semi-arid, shale-derived California soils. *Frontiers in Forests and Global Change* 4: 57.
17. Bostic, J. T., Nelson, D. M., Sabo, R. D., & Eshleman, K. N., 2021. Terrestrial Nitrogen Inputs Affect the Export of Unprocessed Atmospheric Nitrate to Surface Waters: Insights from Triple Oxygen Isotopes of Nitrate. *Ecosystems* 1-16. <https://doi.org/10.1007/s10021-021-00722-9>.
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Scientific Review. <https://deltacouncil.ca.gov/pdf/science-program/2021-07-21-delta-mehg-phase-1-open-water-wetlands-review.pdf>.

19. Brantley, S. L., Wen, T., Agarwal, D. A., Catalano, J. G., Schroeder, P. A., Lehnert, K., ... & Pierce, E. M., 2021. The future low-temperature geochemical data-scape as envisioned by the US geochemical community. *Computers and Geosciences* 157: 104933.
20. Brereton, R. L., Caraballo, S. B., Lilyestrom, C. G., & McDowell, W. H. Luquillo, 2021. Experimental Forest, Puerto Rico. In *Biological Responses to Stream Nutrients: A Synthesis of Science From Experimental Forests and Ranges*, Chapter 17, page 435.
21. Brigham, M. E., VanderMeulen, D. D., Eagles-Smith, C. A., Krabbenhoft, D. P., Maki, R. P., & DeWild, J. F., 2021. Long-Term Trends in Regional Wet Mercury Deposition and Lacustrine Mercury Concentrations in Four Lakes in Voyageurs National Park. *Applied Sciences* 11(4): 1879.
22. Brown, J. R., 2021. Dissolved Organic Carbon and the Potential Role to Stream Acidity in the Great Smoky Mountains National Park. Master's Thesis, Graduate College, University of Tennessee.
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25. Burbes, D., & Bowen, J. D., 2021. Using ADCIRC to extend the time period of the Neuse River Estuary eutrophication model. NC Water Resources Research Institute. Report: WRI Project No. 18-06-W.
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27. Cannon, K., McClure, M. A., Yin, X., & Sams, C., 2021. Corn and soybean response to sulfur fertilizer in West Tennessee. *Crop, Forage and Turfgrass Management*

7(1): e20092.

28. Carrara, J. E., Walter, C. A., Freedman, Z. B., Hostetler, A. N., Hawkins, J. S., Fernandez, I. J., & Brzostek, E. R., 2021. Differences in microbial community response to nitrogen fertilization result in unique enzyme shifts between arbuscular and ectomycorrhizal-dominated soils. *Global Change Biology* 27(10): 2049-2060.
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33. Davidson, J., 2021. Wilderness Stewardship Performance Report, Wilderness Air Quality Value Monitoring Plan, Allegheny National Forest, 38 pages.
34. Delaria, E. R., Place, B. K., Turner, A. J., Zhu, Q., Jin, X., & Cohen, R. C., 2021. Development of a Solar-Induced Fluorescence— Canopy Conductance Model and Its Application to Stomatal Reactive Nitrogen Deposition. *ACS Earth and Space Chemistry* 5: 3414–3428.
35. Delia, K. A., Haney, C. R., Dyer, J. L., & Paul, V. G., 2021. Spatial Analysis of a Chesapeake Bay Sub-Watershed: How Land Use and Precipitation Patterns Impact Water Quality in the James River. *Water* 13(11): 1592.

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55. Ferreira-Rodríguez, N., Castro, A. J., Tweedy, B. N., Quintas-Soriano, C., & Vaughn, C. C., 2021. Mercury consumption and human health: Linking pollution and social risk perception in the southeastern United States. *Journal of Environmental Management* 282: 111528.
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