

2014 NADP Reference Listing

Includes 236 publications that used NADP data, compared to NADP, or resulted from NRSP-3 activities in 2014. A publically available online database that lists citations using NADP data is accessible at: <http://nadp.slh.wisc.edu/lib/bibliography.aspx>.

1. Adams, H. R., Barnard, H. R., & Loomis, A. K., 2014. Topography alters tree growth-climate relationships in a semi-arid forested catchment. *Ecosphere*, 5(11), article 148.
2. Adams, M. B., Knoepp, J. D., & Webster, J. R., 2014. Inorganic nitrogen retention by watersheds at Fernow Experimental Forest and Coweeta Hydrologic Laboratory. *Soil Science Society of America Journal*, 78(S1), S84-S94.
3. Adane, Z. A., & Gates, J. B., 2014. Determining the impacts of experimental forest plantation on groundwater recharge in the Nebraska Sand Hills (USA) using chloride and sulfate. *Hydrogeology Journal*, 23(1), 81-94.
4. Agency for Toxic Substances and Disease Registry Evaluation of Off Site Air Contamination From the Savannah River Site (USDOE), Savannah River Site, Aiken, South Carolina, Feb, 2014.
5. Alshawaf, M., 2014. Impacts of US biofuels mandates on environmental and energy security. Doctoral Dissertation, University of Massachusetts-Boston.
6. Allegheny National Forest, 2014. Wilderness Stewardship Challenge: Air Quality Value Monitoring Plan.
7. Altieri, K. E., Hastings, M. G., Peters, A. J., Oleynik, S., & Sigman, D. M., 2014. Isotopic evidence for a marine ammonium source in rainwater at Bermuda. *Global Biogeochemical Cycles*, 28(10), 1066-1080.
8. Amodio, M., Catino, S., Dambruoso, P. R., de Gennaro, G., Di Gilio, A., Giungato, P., ... & Tutino, M., 2014. Atmospheric deposition: Sampling procedures, analytical methods, and main recent findings from the scientific literature. *Advances in Meteorology*, (2014), Article ID 161730, 27 pages, <http://dx.doi.org/10.1155/2014/161730>.

9. Anderson, T. R., Goodale, C. L., Groffman, P. M., & Walter, M. T., 2014. Assessing denitrification from seasonally saturated soils in an agricultural landscape: A farm-scale mass-balance approach. *Agriculture, Ecosystems & Environment*, 189, 60-69.
10. Aplin, M. W., 2014. Chemical flux during event stormwater flows in the Great Smoky Mountains National Park: Comparison of two streams varying by drainage area and elevation. Master's Thesis, University of Tennessee http://trace.tennessee.edu/utk_gradthes/2789.
11. Arundale, R. A., Dohleman, F. G., Voigt, T. B., & Long, S. P., 2014. Nitrogen fertilization does significantly increase yields of stands of *Miscanthus* × *giganteus* and *Panicum virgatum* in multiyear trials in Illinois. *BioEnergy Research*, 7(1), 408-416.
12. Baird, R., Stokes, C. E., Wood-Jones, A., Alexander, M., Watson, C., Taylor, G., ... & Diehl, S., 2014. Fleshy saprobic and ectomycorrhizal fungal communities associated with healthy and declining eastern hemlock stands in Great Smoky Mountains National Park. *Southeastern Naturalist*, 13(6), 192-218.
13. Banks, S. A., 2014. Forest response to the US 1990 Clean Air Act: The southern spruce-fir ecosystem. *American Journal of Plant Sciences*, 5, 372-386.
14. Barnes, R. T., Williams, M. W., Parman, J. N., Hill, K., & Caine, N., 2014. Thawing glacial and permafrost features contribute to nitrogen export from Green Lakes Valley, Colorado Front Range, USA. *Biogeochemistry*, 117(2-3), 413-430.
15. Bearup, L. A., Maxwell, R. M., Clow, D. W., & McCray, J. E., 2014. Hydrological effects of forest transpiration loss in bark beetle-impacted watersheds. *Nature Climate Change*, 4(6), 481-486.
16. Becker, C. J., 2014. Stream-water and groundwater quality in and near the Citizen Potawatomi Nation Tribal Jurisdictional Area, Pottawatomie County, Oklahoma, 2012–2013. U.S. Geological Survey Scientific Investigations Report 2014–5178, 102 p., <http://dx.doi.org/10.3133/sir20145178>.
17. Bell, M. D., Sickman, J. O., Bytnerowicz, A., Padgett, P. E., & Allen, E. B., 2014. Variation in isotopologues of atmospheric nitric acid in passively collected samples along an air pollution gradient in southern California. *Atmospheric Environment*, 94, 287-296.
18. Blackwell, B. D., Driscoll, C. T., Maxwell, J. A., & Holsen, T. M., 2014. Changing climate alters inputs and pathways of mercury deposition to forested ecosystems. *Biogeochemistry*, 119(1-3), 215-228.

19. Blett, T. F., Lynch, J. A., Pardo, L. H., Huber, C., Haeuber, R., & Pouyat, R., 2014. FOCUS: A pilot study for national-scale critical loads development in the United States. *Environmental Science & Policy*, 38, 225-236.
20. Borrok, D. M., & Engle, M. A., 2014. The role of climate in increasing salt loads in dryland rivers. *Journal of Arid Environments*, 111, 7-13.
21. Borst, M., & Brown, R. A., 2014. Chloride released from three permeable pavement surfaces after winter salt application. *JAWRA Journal of the American Water Resources Association*, 50(1), 29-41.
22. Brahney, J., Ballantyne, A. P., Turner, B. L., Spaulding, S. A., Otu, M., & Neff, J. C., 2014. Separating the influences of diagenesis, productivity and anthropogenic nitrogen deposition on sedimentary $\delta^{15}\text{N}$ variations. *Organic Geochemistry*, 75, 140-150.
23. Bricker, S. B., Rice, K. C., & Bricker III, O. P., 2014. From headwaters to coast: Influence of human activities on water quality of the Potomac River estuary. *Aquatic Geochemistry*, 20(2-3), 291-323.
24. Bridger, K., Dodson, J., & Maddox, G., 2014. Draft TMDL Report, Nutrient TMDLs for Homosassa–Trotter–Pumphouse Springs Group, Bluebird Springs, and Hidden River Springs (WBIDs 1345G, 1348A, and 1348E).
25. Brigham, M. E., Sandheinrich, M. B., Gay, D. A., Maki, R. P., Krabbenhoft, D. P., & Wiener, J. G., 2014. Lacustrine responses to decreasing wet mercury deposition rates: Results from a case study in northern Minnesota. *Environ. Sci. Technol.*, 48(11), 6115-6123.
26. Brooks, S., Ren, X., Cohen, M., Luke, W. T., Kelley, P., Artz, R., ... & Martos, B., 2014. Airborne vertical profiling of mercury speciation near Tullahoma, TN, USA. *Atmosphere*, 5(3), 557-574.
27. Bullock, Jr., O. R., Alapaty, K., Herwehe, J. A., Mallard, M. S., Otte, T. L., Gilliam, R. C., & Nolte, C. G., 2014. An observation-based investigation of nudging in WRF for downscaling surface climate information to 12-km grid spacing. *Journal of Applied Meteorology and Climatology*, 53(1), 20-33.
28. Burgess, A. B., 2014. Hydrologic impacts of dust on snow in the Upper Colorado River Basin. Doctoral Dissertation, The University of Utah.
29. Burtley, C. L., 2014. Comparison of intra-annual growth variation of northern temperate forest trees. Master's Thesis, University of Wisconsin-Green Bay.

30. Busenberg, E., & Plummer, L. N., 2014. A 17-year record of environmental tracers in spring discharge, Shenandoah National Park, Virginia, USA: Use of climatic data and environmental conditions to interpret discharge, dissolved solutes, and tracer concentrations. *Aquatic Geochemistry*, 20(2-3), 267-290.
31. Chalmers, A. T., Krabbenhoft, D. P., Van Metre, P. C., & Nilles, M. A., 2014. Effects of urbanization on mercury deposition and accumulation in New England. *Environmental Pollution*, 192, 104-112.
32. Chen, H. S., Wang, Z. F., Li, J., Tang, X., Ge, B. Z. Wu, X. L., Wild, O., & Carmichael, G. R., 2014. GNAQPMS-Hg v1. 0, a global nested atmospheric mercury transport model: Model description, evaluation and application to trans-boundary transport of Chinese anthropogenic emissions. *Geoscientific Model Development Discussions*, 7(5), 6949-6996.
33. Chen, L., Wang, H. H., Liu, J. F., Zhang, W., Hu, D., Chen, C., & Wang, X. J., 2014. Intercontinental transport and deposition patterns of atmospheric mercury from anthropogenic emissions. *Atmospheric Chemistry & Physics Discussions*, 13, 25185-25218.
34. Chen, X., Day, D., Schichtel, B., Malm, W., Matzoll, A. K., Mojica, J., ... & Collett Jr., J. L., 2014. Seasonal ambient ammonia and ammonium concentrations in the western United States determined in a pilot IMPROVE NH_x monitoring network. *Atmospheric Environment*, 91, 118-126.
35. Cheng, I., Zhang, L., & Blanchard, P., 2014. Regression modeling of gas-particle partitioning of atmospheric oxidized mercury from temperature data. *Journal of Geophysical Research: Atmospheres*, 119(20), 11-864.
36. Civerolo, K. L., Rattigan, O. V., Felton, H. D., Hirsch, M. J., & DeSantis, S., 2014. Mercury wet deposition and speciated air concentrations from two urban sites in New York State: Temporal patterns and regional context. *Aerosol and Air Quality Research*, doi: 10.4209/aaqr.2014.03.0052.
37. Clay, N. A., Yanoviak, S. P., & Kaspari, M., 2014. Short-term sodium inputs attract microbi-detritivores and their predators. *Soil Biology and Biochemistry*, 75, 248-253.
38. Cole, A. S., Steffen, A., Eckley, C. S., Narayan, J., Pilote, M., Tordon, R., ... & Branfireun, B. A., 2014. A survey of mercury in air and precipitation across Canada: Patterns and trends. *Atmosphere*, 5(3), 635-668.

39. Converse, A. D., Riscassi, A. L., & Scanlon, T. M., 2014. Seasonal contribution of dewfall to mercury deposition determined using a micrometeorological technique and dew chemistry. *Journal of Geophysical Research: Atmospheres*, 119(1): 284-292.
40. Creamean, J. M., Spackman, J. R., Davis, S. M., & White, A. B., 2014. Climatology of long-range transported Asian dust along the West Coast of the United States. *Journal of Geophysical Research: Atmospheres*, 119(21), 12-171.
41. Currie, W. S., Goldberg, D. E., Martina, J., Wildova, R., Farrer, E., & Elgersma, K. J., 2014. Emergence of nutrient-cycling feedbacks related to plant size and invasion success in a wetland community–ecosystem model. *Ecological Modelling*, 282, 69-82.
42. Damme, M., Van, L., Clarisse, E., Dammers, X., Liu, J. B., Nowak, C., Clerbaux, C., Flechard R., et al., 2014. Towards validation of ammonia (NH₃) measurements from the IASI satellite. *Atmospheric Measurement Techniques Discussions*, 7(12), 12125-12172.
43. Dangal, S. R., Felzer, B. S., & Hurteau, M. D., 2014. Effects of agriculture and timber harvest on carbon sequestration in the eastern US forests. *Journal of Geophysical Research: Biogeosciences*, 119, 35-54.
44. Daniels, J. L., & Das, G. P. Practical leachability and sorption considerations for ash management. In *Geo-Congress 2014 Technical Papers Geo-characterization and Modeling for Sustainability* (pp. 362-376). ASCE.
45. De Simone, F., Gencarelli, C. N., Hedgecock, I. M., & Pirrone, N., 2014. Global atmospheric cycle of mercury: A model study on the impact of oxidation mechanisms. *Environmental Science and Pollution Research*, 21(6), 4110-4123.
46. Di Vittorio, A. V., & Miller, N. L., 2014. Reducing the impact of model scale on simulated, gridded switchgrass yields. *Environmental Modelling & Software*, 51, 70-83.
47. Dodson, J., Bridger, K., & Maddox, G., 2014. Nutrient TMDLs for Chassahowitzka Springs Group, Crab Creek Spring, Chassahowitzka River–Baird Creek, Baird Springs, Ruth Spring, and Betejay Springs (WBIDs 1348Z, 1348D, and 1361B). Groundwater Management Section, Florida Department of Environmental Protection, <http://www.floridagreenlodging.org/water/tmdl/docs/tmdls/draft/gp5/Chassahowitzka-TMDL-Draft.pdf>.

48. Dong, Z., 2014. Landscape factors that affect acid-base chemistry of Adirondack Long-Term Monitoring (ALTM) lakes. Master's Thesis, Syracuse University.
49. Driscoll, C. T., Fakhraei, H., Johnson, C., & Driscoll, K. M., 2014. Response of Adirondack ecosystems to decreases in acid deposition: A roadmap to recovery? White paper prepared for the "Acid Rain in the Adirondacks: A Roadmap to Recovery" meeting in Saratoga Springs, NY 16 October, 2014 http://environmentalnewsstand.com/sites/insideepa.com/files/documents/nov2014/epa2014_2038a.pdf.
50. Du, E., de Vries, W., Galloway, J. N., Hu, X., & Fang, J., 2014. Changes in wet nitrogen deposition in the United States between 1985 and 2012. *Environmental Research Letters*, 9(9), 095004.
51. Dvorak, B. I., Fisher, J. R., Florek III, M. J., Snow, D. D., & Admiraal, D. M., 2014. Isotopic analysis for characterizing nutrient sources in a small urban Nebraska watershed. In *World Environmental and Water Resources Congress 2014 Water Without Borders* (pp. 38-45). ASCE.
52. Ebel, J. D., Marcarelli, A. M., & Kohler, A. E., 2014. Biofilm nutrient limitation, metabolism, and standing crop responses to experimental application of salmon carcass analog in Idaho streams. *Canadian Journal of Fisheries and Aquatic Sciences*, 71(12), 1796-1804.
53. Edlebeck, J. E., & Beske, B., 2014. Identifying and Quantifying Material Properties That Impact Aggregate Resistivity of Electrical Substation Surface Material. *Power Delivery, IEEE Transactions on Power Delivery*, 29(5), 2248-2253.
54. El-Mallakh, T. V., Gao, Y., & El-Mallakh, R. S., 2014. The effect of simulated acid rain on growth of root systems of *Scindapsus aureus*. *International Journal of Plant Biology*, 5(1), 5187.
55. Engstrom, D. R., Fitzgerald, W. F., Cooke, C. A., Lamborg, C. H., Drevnick, P. E., Swain, E. B., ... & Balcom, P. H., 2014. Atmospheric Hg emissions from preindustrial gold and silver extraction in the Americas: A reevaluation from lake-sediment archives. *Environ. Sci. Technol.*, 48(12), 6533-6543, doi: 10.1021/es405558e.
56. Evangelidou, N., Balkanski, Y., Cozic, A., & Møller, A. P., 2014. Global and local cancer risks after the Fukushima Nuclear Power Plant accident as seen from Chernobyl: A modeling study for radiocaesium (¹³⁴Cs & ¹³⁷Cs). *Environment International*, 64, 17-27.

57. Etheridge, J. R., Birgand, F., & Burchell II, M. R., 2014. Quantifying nutrient and suspended solids fluxes in a constructed tidal marsh following rainfall: The value of capturing the rapid changes in flow and concentrations. *Ecological Engineering*, in press, doi: 10.1016/j.ecoleng.2014.05.021.
58. Evans, D. M., Schoenholtz, S. H., Wigington Jr, P. J., Griffith, S. M., & Floyd, W. C., 2014. Spatial and temporal patterns of dissolved nitrogen and phosphorus in surface waters of a multi-land use basin. *Environmental Monitoring and Assessment* 186: 873-887.
59. Fakhraei, H., Driscoll, C. T., Selvendiran, P., DePinto, J. V., Bloomfield, J., Quinn, S., & Rowell, H. C., 2014. Development of a total maximum daily load (TMDL) for acid-impaired lakes in the Adirondack region of New York. *Atmospheric Environment*, 95, 277-287.
60. Farrer, E. C., Ashton, I. W., Knape, J., & Suding, K. N., 2014. Separating direct and indirect effects of global change: A population dynamic modeling approach using readily available field data. *Global Change Biology*, 20(4), 1238-1250.
61. Felix, J. D., Elliott, E. M., Gish, T., Maghirang, R., Cambal, L., & Clougherty, J., 2014. Examining the transport of ammonia emissions across landscapes using nitrogen isotope ratios. *Atmospheric Environment*, 95, 563-570.
62. Foote, J., 2014. Biogeochemistry of the western Gulf Coastal plain as impacted by forest management. Doctoral Dissertation, Texas Agricultural and Mechanical University, [http : / /hdl .handle .net /1969 .1 /152521](http://hdl.handle.net/1969.1/152521).
63. Fowler, Z. K., 2014. The effects of accelerated soil acidification on aggrading temperate deciduous forests: The Fernow Experimental Forest Long Term Soil Productivity (LTSP) study at 13 years. Doctoral Dissertation, West Virginia University.
64. Frank, J. M., Massman, W. J., Ewers, B. E., Huckaby, L. S., & Negrón, J. F., 2014. Ecosystem CO₂/H₂O fluxes are explained by hydraulically limited gas exchange during tree mortality from spruce bark beetles. *Journal of Geophysical Research: Biogeosciences*, 119(6), 1195-1215.
65. Fuller, M. E., Schaefer, C. E., Andaya, C., & Fallis, S., 2014. Transport and dissolution of microscale Composition B detonation residues in porous media. *Chemosphere*, 107, 400-406.
66. Fuss, C., 2014. Hydrochemical dynamics under differing winter climate regimes at the Hubbard Brook Experiment Forest. Doctoral Dissertation, Syracuse University.

67. Gabriel, M., Knightes, C., Dennis, R., & Cooter, E., 2014. Potential impact of Clean Air Act regulations on nitrogen fate and transport in the Neuse River Basin: A modeling investigation using CMAQ and SWAT. *Environmental Modeling & Assessment*, 1-15, doi:10.1007/s10666-014-9410-x.
68. Gamby, R. L., 2014. Effects of land use on mercury in soils of southwest Ohio. Master's Thesis, Wright State University.
69. Gandhi, N., Tang, R. W., Bhavsar, S. P., & Arhonditsis, G. B., 2014. Fish mercury levels appear to be increasing lately: A report from 40 years of monitoring in the Province of Ontario, Canada. *Environmental Sci. Tech.*, 48(10), 5404-5414.
70. Gates, J. B., Steele, G. V., Nasta, P., & Szilagyi, J., 2014. Lithologic influences on groundwater recharge through incised glacial till from profile to regional scales: Evidence from glaciated Eastern Nebraska. *Water Resources Research*, 50(1), 466-481.
71. Geddes, J. A., & Murphy, J. G., 2014. Observations of reactive nitrogen oxide fluxes by eddy covariance above two midlatitude North American mixed hardwood forests. *Atmospheric Chemistry and Physics*, 14(6), 2939-2957.
72. Gerhart, L. M., & McLaughlan, K. K., 2014. Reconstructing terrestrial nutrient cycling using stable nitrogen isotopes in wood. *Biogeochemistry*, 120, 1-21.
73. Gichuki, S. W., & Mason, R. P., 2014. Wet and dry deposition of mercury in Bermuda. *Atmospheric Environment*, 87, 249-257.
74. Glibert, P. M., Hinkle, D. C., Sturgis, B., & Jesien, R. V., 2014. Eutrophication of a Maryland/Virginia coastal lagoon: A tipping point, ecosystem changes, and potential causes. *Estuaries and Coasts*, 37(1), 128-146.
75. Gill, R. A., 2014. The influence of 3 years of warming and N-deposition on ecosystem dynamics is small compared to past land use in subalpine meadows. *Plant and Soil*, 374(1-2), 197-210.
76. Gillis, J. M., 2014. Detection and analysis of low level tritium in rainwater for a proposed environmental monitoring program. Master's Thesis, Colorado State University.
77. Goldhaber, M. B., Mills, C. T., Morrison, J. M., Stricker, C. A., Mushet, D. M., & LaBaugh, J. W., 2014. Hydrogeochemistry of prairie pothole region wetlands: Role of long-term critical zone processes. *Chemical Geology*, 387, 170-183.

78. Gornish, E. S., 2014. Interactive effects of nitrogen addition, warming and invasion across organizational levels in an old-field plant community. *AoB plants*, 6, plu061, doi:10.1093/aobpla/plu061.
79. Grant, S. L., Kim, M., Lin, P., Crist, K. C., Ghosh, S., & Kotamarthi, V. R., 2014. A simulation study of atmospheric mercury and its deposition in the Great Lakes. *Atmospheric Environment*, 94, 164-172.
80. Grantz, E. M., Haggard, B. E., & Scott, J. T., 2014. Stoichiometric imbalance in rates of nitrogen and phosphorus retention, storage, and recycling can perpetuate nitrogen deficiency in highly-productive reservoirs. *Limnology and Oceanography*, 59(6), 2203-2216.
81. Greathouse, E. A., Compton, J. E., & Van Sickle, J., 2014. Linking landscape characteristics and high stream nitrogen in the Oregon Coast range: Red alder complicates use of nutrient criteria. *JAWRA, Journal of the American Water Resources Association*, doi: 10.1111/jawr.12194.
82. Greene, C., Andrews, K., Beechie, T., Bottom, D., Brodeur, R., Crozier, L., ... & Zwolinski, J., 2014. Selecting and evaluating indicators for habitats within the California current large marine ecosystem. *CCIEA Phase III Report 2013: Habitat*, http://www.noaa.gov/iea/Assets/iea/california/Report/pdf/9.Habitat_2013.pdf.
83. Greening, H., Janicki, A., Sherwood, E. T., Pribble, R., & Johansson, J. O. R., 2014. Ecosystem responses to long-term nutrient management in an urban estuary: Tampa Bay, Florida, USA. *Estuarine, Coastal and Shelf Science*, 151, A1-A16.
84. Gronberg, J. M., Ludtke, A. S., & Knifong, D. L., 2014. Estimates of inorganic nitrogen wet deposition from precipitation for the conterminous United States, 1955–84. *U.S. Geological Survey Scientific Investigations Report 2014–5067*, 18 p., <http://dx.doi.org/10.3133/sir20145067>.
85. Guretzky, J. A., Schacht, W. H., Wingeyer, A., Klopfenstein, T. J., & Watson, A., 2014. Litter deposition and nitrogen return in rotationally stocked smooth bromegrass pastures. *Agronomy Journal*, 106(1), 175-184.
86. Hall, S. J., Maurer, G., Hoch, S. W., Taylor, R., & Bowling, D. R., 2014. Impacts of anthropogenic emissions and cold air pools on urban to montane gradients of snowpack ion concentrations in the Wasatch Mountains, Utah. *Atmospheric Environment*, 98, 231-241.

87. Hartman, M. D., Baron, J. S., Ewing, H. A., & Weathers, K. C., 2014. Combined global change effects on ecosystem processes in nine US topographically complex areas. *Biogeochemistry*, 119(1-3), 85-108.
88. Harvey, J. J., 2014. Environmental factors affecting methylmercury in fish of the Laurentian Great Lakes Region. Master's Thesis, Wright State University.
89. Hastings, B. E., & Kampf, S. K., 2014. Evaluation of digital channel network derivation methods in a glaciated subalpine catchment. *Earth Surface Processes and Landforms*, doi: 10.1002/esp.3566.
90. Hatten, J., Sloan, J., Frey, B., Straub, J., Kaminski, R., & Ezell, A., 2014. Soil and sediment carbon and nitrogen in Mississippi Alluvial Valley and interior flatwoods bottomlands. *Soil Science Society of America Journal*, 78(S1), S248-S260.
91. Heard, A. M., Sickman, J. O., Rose, N. L., Bennett, D. M., Lucero, D. M., Melack, J. M., & Curtis, J. H., 2014. 20th century atmospheric deposition and acidification trends in lakes of the Sierra Nevada, California, USA. *Environmental Science & Technology*, 48(17), 10054-10061.
92. Heath, J., & Baron, J. S., 2014. Climate, not atmospheric deposition, drives the biogeochemical mass-balance of a mountain watershed. *Aquatic Geochemistry*, 20(2-3), 167-181.
93. Hecht, J., Cai, X., & Eheart, J., 2014. Operating rules for an off-stream blending reservoir to control nitrate in a municipal water system. *J. Water Resour. Plann. Manage.*, 140(8), 04014015.
94. Heil, C. A., Dixon, L. K., Hall, E., Garrett, M., Lenes, J. M., O'Neil, J. M., ... & Weisberg, R. W., 2014. Blooms of *Karenia brevis* (Davis) G. Hansen & Ø. Moestrup on the West Florida Shelf: Nutrient sources and potential management strategies based on a multi-year regional study. *Harmful Algae*, 38, 127-140.
95. Hill, B. H., Kolka, R. K., McCormick, F. H., & Starry, M. A., 2014. A synoptic survey of ecosystem services from headwater catchments in the United States. *Ecosystem Services*, 7, 106-115.
96. Hinckley, E. L. S., Barnes, R. T., Anderson, S. P., Williams, M. W., & Bernasconi, S. M., 2014. Nitrogen retention and transport differ by hillslope aspect at the rain-snow transition of the Colorado Front Range. *Journal of Geophysical Research: Biogeosciences*, 119(7), 1281-1296.

97. Hong, Y-S., Rifkin, E., & Bouwer, E. J., 2014. Modeling mercury distribution in the Sarasota Bay ecosystem using SERAFM and stable isotope ratios of nitrogen (d15N) in biota. *Environmental Engineering Science*, 31, doi: 10.1089/ees.2013.0293.
98. Houser, C., 2014. Genetically-mediated leaf chemistry in invasive and native black locust (*Robinia pseudoacacia* L.) ecosystems. Master's Thesis, Appalachian State University.
99. Howey, C. A., 2014. The ecological effects of prescribed fire on the Black Racer (*Coluber constrictor*). Doctoral Dissertation, Ohio University.
100. Huang, J., Lyman, S. N., Hartman, J. S., & Gustin, M. S., 2014. A review of passive sampling systems for ambient air mercury measurements. *Environmental Science: Processes & Impacts*, 16(3), 374-392.
101. Hundey, E. J., Moser, K. A., Longstaffe, F. J., Michelutti, N., & Hladyniuk, R., 2014. Recent changes in production in oligotrophic Uinta Mountain lakes, Utah, identified using paleolimnology. *Limnology and Oceanography*, 59(6), 1987-2001.
102. Huntington, T. G., Culbertson, C. W., Fuller, C., Glibert, P., & Sturtevant, L., 2014. The relative importance of oceanic nutrient inputs for Bass Harbor Marsh Estuary at Acadia National Park, Maine: U.S. Geological Survey Scientific Investigations Report 2014-5123, 19 p., <http://dx.doi.org/10.3133/sir20145123>.
103. Hutcheson, M. S., Smith, C. M., Rose, J., Batdorf, C., Pancorbo, O., West, C. R., ... & Francis, C., 2014. Temporal and spatial trends in freshwater fish tissue mercury concentrations associated with mercury emissions reductions. *Environmental Science & Tech*, 48(4), 2193-2202.
104. Hutten, M., 2014. Yosemite region nitrogen deposition and patterns in the composition of lichen communities. Doctoral Dissertation, Oregon State University.
105. Jaffe, D. A., Lyman, S., Amos, H. M., Gustin, M. S., Huang, J., Selin, N. E., ... & Edwards, G., 2014. Progress on understanding atmospheric mercury hampered by uncertain measurements. *Environmental Science & Tech*, 48(13), 7204-7206.
106. Janke, B. D., Finlay, J. C., Hobbie, S. E., Baker, L. A., Sterner, R. W., Nidzgorski, D., & Wilson, B. N., 2014. Contrasting influences of stormflow and baseflow pathways on nitrogen and phosphorus export from an urban watershed. *Biogeochemistry*, 121(1), 209-228.

107. James, A. E., 2014. California native and invasive plants as biological sensors for nitrogen pollution. Master's Thesis, University of California-Riverside.
108. James, R. T., 2014. Long-Term Water Chloride and Nutrient Budgets for Lake Tohopekaliga, WR-2014-001. South Florida Water management District, West Palm Beach, FL.
109. Jicha, T. M., Johnson, L. B., Hill, B. H., Regal, R. R., Elonen, C. M., & Pearson, M. S., 2014. Spatial and temporal patterns of nitrification rates in forested floodplain wetland soils of upper Mississippi River Pool 8. *River Research and Applications*, 30(5), 650-662.
110. Jin, L., Ogrinc, N., Yesavage, T., Hasenmueller, E. A., Ma, L., Sullivan, P. L., ... & Brantley, S. L., 2014. The CO₂ consumption potential during gray shale weathering: Insights from the evolution of carbon isotopes in the Susquehanna Shale Hills critical zone observatory. *Geochimica et Cosmochimica Acta*, 142, 260-280.
111. Johnstone, J., Vidon, P., Tedesco, L. P., & Soyeux, E., 2014, April. Nitrogen, phosphorus and carbon dynamics in a third-order stream of the US Midwest. *Proceedings of the Indiana Academy of Science*, 119(1), 7-24.
112. Jones, R. C., 2014. Modeling to improve vegetation-based wetland biological assessment. Master's Thesis, Utah State University.
113. Justus, B., & Meredith, B., 2014. Water quality of potential reference lakes in the Arkansas Valley and Ouachita Mountain ecoregions, Arkansas. *Environmental Monitoring and Assessment*, 186(6), 3785-3800.
114. Kaspari, M., Clay, N. A., Donoso, D. A., & Yanoviak, S. P., 2014. Sodium fertilization increases termites and enhances decomposition in an Amazonian forest. *Ecology*, 95(4), 795-800.
115. Kentisbeer, J., Leeson, S. R., Malcolm, H. M., Leith, I. D., Braban, C. F., & Cape, J. N., 2014. Patterns and source analysis for atmospheric mercury at Auchencorth Moss, Scotland. *Environmental Science: Processes & Impacts*, 16(5), 1112-1123.
116. Kazil, J., McKeen, S., Kim, S. W., Ahmadov, R., Grell, G. A., Talukdar, R. K., & Ravishankara, A. R., 2014. Deposition and rainwater concentrations of trifluoroacetic acid in the United States from the use of HFO-1234yf. *Journal of Geophysical Research: Atmospheres*, 14,059.

117. Keller, R. H., Xie, L., Buchwalter, D. B., Franzreb, K. E., & Simons, T. R., 2014. Mercury bioaccumulation in Southern Appalachian birds, assessed through feather concentrations. *Ecotoxicology*, 23(2), 304-316.
118. Khanal, S., Anex, R. P., Gelder, B. K., & Wolter, C., 2014. Nitrogen balance in Iowa and the implications of corn-stover harvesting. *Agriculture, Ecosystems & Environment*, 183, 21-30.
119. Kim, T. W., Najjar, R. G., & Lee, K., 2014. Influence of precipitation events on phytoplankton biomass in coastal waters of the eastern United States. *Global Biogeochemical Cycles*, 28(1), 1-13.
120. Kovalets, I. V., Robertson, L., Persson, C., Didkivska, S. N., Ievdin, I. A., & Trybushnyi, D., 2014. Calculation of the far range atmospheric transport of radionuclides after the Fukushima accident with the atmospheric dispersion model MATCH of the JRODOS system. *International Journal of Environment and Pollution*, 54(2), 101-109.
121. Knote, C., Hodzic, A., & Jimenez, J. L., 2014. The effect of dry and wet deposition of condensable vapors on secondary organic aerosols concentrations over the continental US. *Atmospheric Chemistry and Physics Discussions*, 14(9), 13731-13767.
122. Kronholm, S. C., & Capel, P. D., 2014. A comparison of high-resolution specific conductance-based end-member mixing analysis and a graphical method for baseflow separation of four streams in hydrologically challenging agricultural watersheds. *Hydrological Processes*, doi: 10.1002/hyp.10378.
123. Lan, X., Talbot, R., Laine, P., Lefer, B., Flynn, J., & Torres, A., 2014. Seasonal and diurnal variations of total gaseous mercury in urban Houston, TX, USA. *Atmosphere*, 5(2), 399-419.
124. Lapina, K., Henze, D. K., Milford, J. B., Huang, M., Lin, M., Fiore, A. M., ... & Bowman, K., 2014. Assessment of source contributions to seasonal vegetative exposure to ozone in the US. *Journal of Geophysical Research. Atmospheres*, 119(1), 324-340.
125. Larson, J. H., Maki, R. P., Knights, B. C., & Gray, B. R., 2014. Can mercury in fish be reduced by water level management? Evaluating the effects of water level fluctuation on mercury accumulation in yellow perch (*Perca flavescens*). *Ecotoxicology*, 23(8), 1555-1563.

126. Leisenring, M., Sahu, S., Poor, C., Zell, C., Mansell, S., & Venner, M., 2014. NCHRP 25-25 Task 85 Nutrient (Nitrogen/Phosphorus) Management and Source Control Final Report.
127. Lenihan, W., & Schultz, R., 2014. Carnivorous pitcher plant species (*Sarracenia purpurea*) increases root growth in response to nitrogen addition. *Botany*, 92(12), 917-921.
128. Lerman-Sinkoff, S. T., 2014. Transport and fate of historic mercury pollution from Danbury, CT through the Still and Housatonic Rivers. Honors Thesis, Wesleyan University.
129. Lessard, C. R., Poulain, A. J., Ridal, J. J., & Blais, J. M., 2014. Dynamic mass balance model for mercury in the St. Lawrence River near Cornwall, Ontario, Canada. *Science of The Total Environment*, 500, 131-138.
130. Li, Y., Schwandner, F. M., Sewell, H. J., Zivkovich, A., Tigges, M., Raja, S., ... & Collett, J. L., 2014. Observations of ammonia, nitric acid, and fine particles in a rural gas production region. *Atmospheric Environment*, 83, 80-89.
131. Lloyd, S., 2014. Nitrogen load modeling to forty-three subwatersheds of the Peconic Estuary. Peconic Estuary Program, Yaphank, NY, <http://www.peconicestuary.org/reports.php>.
132. Louiseize, N. I. C. O. L. E., 2014. Impact of active layer detachments on seasonal dynamics of export in high arctic watersheds. Master's Thesis, Queen's University, Kingston, Ontario, Canada.
133. Lu, D., Cizdziel, J. V., Jiang, Y., White, L., & Reddy, R. S., 2014. Numerical simulation of atmospheric mercury in mid-south USA. *Air Quality, Atmosphere & Health*, 1-16, doi 10.1007/s11869-014-0256-9.
134. Lynam, M. M., Dvonch, J. T., Hall, N. L., Morishita, M., & Barres, J. A., 2014. Trace elements and major ions in atmospheric wet and dry deposition across central Illinois, USA. *Air Quality, Atmosphere & Health*, 1-13, doi 10.1007/s11869-014-0274-7.
135. Mast, M. A., Clow, D. W., Baron, J. S., & Wetherbee, G. A., 2014. Links between N Deposition and Nitrate Export from a High-Elevation Watershed in the Colorado Front Range. *Environmental Science & Technology*, 48(24), 14258-14265.

136. McClure, C. D., Jaffe, D. A., & Edgerton, E. S., 2014. Evaluation of the KCl denuder method for gaseous oxidized mercury using HgBr₂ at an in-service AMNet site. *Environmental Science & Technology*, 48(19), 11437-11444.
137. McCrackin, M. L., Harrison, J. A., & Compton, J. E., 2014. Factors influencing export of dissolved inorganic nitrogen by major rivers: A new, seasonal, spatially explicit, global model. *Global Biogeochemical Cycles*, 28(3), 269-285.
138. McLauchlan, K. K., Craine, J. M., Nippert, J. B., & Ocheltree, T. W., 2014. Lack of eutrophication in a tallgrass prairie ecosystem over 27 years. *Ecology*, 95(5), 1225-1235.
139. Megaritis, A. G., Murphy, B. N., Racherla, P. N., Adams, P. J., & Pandis, S. N., 2014. Impact of climate change on mercury concentrations and deposition in the eastern United States. *Science of The Total Environment*, 487, 299-312.
140. Messer, L. C., Jagai, J. S., Rappazzo, K. M., & Lobdell, D. T., 2014. Construction of an environmental quality index for public health research. *Environmental Health*, 13(1), 39.
141. Metcalfe, S., & Derwent, D., 2014. Atmospheric pollution and environmental change. Routledge.
142. Meyer, N. A., Breecker, D. O., Young, M. H., & Litvak, M. E., 2014. Simulating the effect of vegetation in formation of pedogenic carbonate. *Soil Science Society of America Journal*, 78(3), 914-924, doi:10.2136/sssaj2013.08.0326.
143. Michaud, A. B., Dore, J. E., Leslie, D., Lyons, W. B., Sands, D. C., & Priscu, J. C., 2014. Biological ice nucleation initiates hailstone formation. *Journal of Geophysical Research: Atmospheres*, 119(21), 12-186.
144. Mietelski, J. W., Kierepko, R., Brudecki, K., Janowski, P., Kleszcz, K., & Tomankiewicz, E., 2014. Long-range transport of gaseous ¹³¹I and other radionuclides from Fukushima accident to Southern Poland. *Atmospheric Environment*, 91, 137-145.
145. Mobley, M. L., Cleary, M. J., & Burke, I. C., 2014. Inorganic nitrogen supply and dissolved organic nitrogen abundance across the US Great Plains. *PloS one*, 9(9), e107775.
146. Moragas, B. A., 2014. Implementation, development and evaluation of the gas-phase chemistry within the Global/Regional NMMB/BSC Chemical Transport Model (NMMB/BSC-CTM). Dissertation, Dept. of Earth Sciences, Barcelona

Supercomputing Center-Centro, Nacional de Supercomputación [BSC-CNS],
Barcelona.

147. Moore, C. W., Obrist, D., Steffen, A., Staebler, R. M., Douglas, T. A., Richter, A., & Nghiem, S. V., 2014. Convective forcing of mercury and ozone in the Arctic boundary layer induced by leads in sea ice. *Nature*, 506, 81-85.
148. Moorman, M. C., Kolb, K. R., & Supak, S., 2014. Estuarine monitoring programs in the Albemarle Sound study area, North Carolina. U.S. Geological Survey Open-File Report 2014-1110, 38 p., <http://dx.doi.org/10.3133/ofr20141110>.
149. Morris, K., Mast, A., Clow, D., Wetherbee, G., Baron, J., Taipale, C., Blett, T., Gay, D. & Heath, J., 2014. 2012 monitoring and tracking wet nitrogen deposition at Rocky Mountain National Park: January 2014. Natural Resource Report NPS/NRSS/ARD/NRR—2014/757. National Park Service, Denver, Colorado.
150. Morse, N. B., & Wollheim, W. M., 2014. Climate variability masks the impacts of land use change on nutrient export in a suburbanizing watershed. *Biogeochemistry*, 121(1), 45-59.
151. Muntean, M., Janssens-Maenhout, G., Song, S., Selin, N. E., Olivier, J. G., Guizzardi, D., ... & Dentener, F., 2014. Trend analysis from 1970 to 2008 and model evaluation of EDGARv4 global gridded anthropogenic mercury emissions. *Science of the Total Environment*, 494, 337-350.
152. Murdoch, P. S., McHale, M., & Baron, J., 2014. Reflections on a vision for integrated research and monitoring after 15 years. *Aquatic Geochemistry*, 20(2-3), 363-380.
153. Nevison, C. D., 2014. A comparison of temporal trends in United States autism prevalence to trends in suspected environmental factors, Supplemental Materials. *Environmental Health*, 13(1), 73.
154. Nogaro, G., & Burgin, A. J., 2014. Influence of bioturbation on denitrification and dissimilatory nitrate reduction to ammonium (DNRA) in freshwater sediments. *Biogeochemistry*, 120(1-3), 279-294.
155. Nojavan, F., 2014. Bayesian statistical analysis in coastal eutrophication models: Challenges and solutions. Doctoral Dissertation, Duke University.
156. Norton, S. A., Kopáček, J., & Fernandez, I. J., 2014. Acid rain: Acidification and recovery. In: Holland H. D. and Turekian K. K. (eds.) *Treatise on Geochemistry*, Second Edition, 11, 379-414. Oxford: Elsevier.

157. Ochsner, T., Fiebrich, C., & Neel, C., 2014. Estimating groundwater recharge using the Oklahoma mesonet (Interim Report). Oklahoma Water Resources Research Institute.
158. Oldoni, K. M., 2014. Characterization of wet and dry deposition to the nitrogen sensitive alpine ecosystems in the Colorado Rocky Mountains. Master's Thesis, Kansas State University).
159. Orem, W., Newman, S., Osborne, T. Z., & Reddy, K. R., 2014. Projecting changes in Everglades soil biogeochemistry for carbon and other key elements, to possible 2060 climate and hydrologic scenarios. *Environmental Management*, 1-23.
160. Out, A. T. C., 2014. York Potash Ltd. Application to Carry out Mineral Working and Associated Development.
http://www.yorkpotash.co.uk/site/assets/files/2591/mine_and_mts_appendices_to_the_mdt_planning_statement_rev_2_16_10_14.pdf
161. Owen Jr., R. B., Longcore, J. R., & Norton, S. A., 2014. Characteristics of two mineral springs in northern Maine. *Northeastern Naturalist*, 21(1), 146-153.
162. Paulot, F., Jacob, D. J., Pinder, R. W., Bash, J. O., Travis, K., & Henze, D. K., 2014. Ammonia emissions in the United States, European Union, and China derived by high-resolution inversion of ammonium wet deposition data: Interpretation with a new agricultural emissions inventory (MASAGE_NH3). *Journal of Geophysical Research: Atmospheres*, 119(7), 4343-4364.
163. Perrot, D., Molotch, N. P., Williams, M. W., Jepsen, S. M., & Sickman, J. O., 2014. Relationships between stream nitrate concentration and spatially distributed snowmelt in high-elevation catchments of the western US. *Water Resources Research*, 50(11), 8694-8713.
164. Potvin, L. R., Kane, E. S., Chimner, R. A., Kolka, R. K., & Lilleskov, E. A., 2014. Effects of water table position and plant functional group on plant community, aboveground production, and peat properties in a peatland mesocosm experiment (PEATcosm). *Plant and Soil*, 387(1-2), 277-294.
165. Povak, N. A., Hessburg, P. F., McDonnell, T. C., Reynolds, K. M., Sullivan, T. J., Salter, R. B., & Cosby, B. J., 2014. Machine learning and linear regression models to predict catchment-level base cation weathering rates across the southern Appalachian Mountain region, USA. *Water Resources Research*, 50(4), 2798-2814.

166. Prasad, R., Hochmuth, G. J., & Boote, K. J., 2014. Estimation of nitrogen pools in irrigated potato production on sandy soil using the model SUBSTOR. *PloS one*, 10(1), e0117891-e0117891.
167. Pritz, C. F., Eagles-Smith, C., & Krabbenhoft, D., 2014. Mercury in the national parks. In *George Wright Forum*, 31(2), 168-180.
168. Rao, P., Hutyra, L. R., Raciti, S. M., & Templer, P. H., 2014. Atmospheric nitrogen inputs and losses along an urbanization gradient from Boston to Harvard Forest, MA. *Biogeochemistry*, 121(1), 229-245.
169. Reitman, N. G., Ge, S., & Mueller, K., 2014. Groundwater flow and its effect on salt dissolution in Gypsum Canyon watershed, Paradox Basin, southeast Utah, USA. *Hydrogeology Journal*, 22(6), 1403-1419.
170. Ren, X., Luke, W. T., Kelley, P., Cohen, M., Ngan, F., Artz, R., ... & Huey, L. G., 2014. Mercury speciation at a coastal site in the northern Gulf of Mexico: Results from the Grand Bay intensive studies in summer 2010 and spring 2011. *Atmosphere*, 5(2), 230-251.
171. Resasco, J., Porter, S. D., Sanders, N. J., & Levey, D. J., 2014. Assessing the effects of sodium on fire ant foraging in the field and colony growth in the laboratory. *Ecological Entomology*, 39(2), 267-271.
172. Rice, K. C., & Price, J. R., 2014. Comparison of mineral weathering and biomass macronutrient uptake in two small forested watersheds underlain by quartzite bedrock, Catoctin Mountain, Maryland, USA. *Aquatic Geochemistry*, 20(2-3), 225-242.
173. Rice, K. C., Scanlon, T. M., Lynch, J. A., & Cosby, B. J., 2014. Decreased atmospheric sulfur deposition across the southeastern US: When will watersheds release stored sulfate? *Environmental Science & Technology*, 48(17), 10071-10078.
174. Risch, M. R., Kenski, D. M., & Gay, D. A., 2014. A Great Lakes atmospheric mercury monitoring network: Evaluation and design. *Atmospheric Environment*, 85, 109-122.
175. Rogers, C. M., Lavery, T. F., Stewart, M. O., Barnard, W. R., & Howell, H. K., 2014. CASTNET methodology for modeling dry and total deposition. In *Air Pollution Modeling and its Application XXIII* (pp. 49-53). Springer International Publishing.

176. Root, H. T., McCune, B., & Jovan, S., 2014. Lichen communities and species indicate climate thresholds in southeast and south-central Alaska, USA. *The Bryologist*, 117(3), 241-252.
177. Rose, D. H., 2014. A cumulative damage approach to modeling atmospheric corrosion of steel. Doctoral Dissertation, University of Dayton.
178. Rowe, M. D., Kreis Jr., R. G., & Dolan, D. M., 2014. A reactive nitrogen budget for Lake Michigan. *Journal of Great Lakes Research*, 40(1), 192-201.
179. Ruoho-Airola, T., Hatakka, T., Kyllönen, K., Makkonen, U., & Porvari, P., 2014. Temporal trends in the bulk deposition and atmospheric concentration of acidifying compounds and trace elements in the Finnish Integrated Monitoring catchment Valkea-Kotinen during 1988-2011. *Boreal Environment Research*, 19.
180. Sabo, R. D., 2014. Stage III N-saturated forested watershed rapidly responds to declining atmospheric N deposition. Master's Thesis, University of Maryland, College Park.
181. Sanderson, T. M., 2014. Monitoring the influence of acid deposition on soil and implications to forest health in the Daniel Boone National Forest. Master of Science in the College of Agriculture, Food and Environment Department of Forestry at the University of Kentucky.
182. Santhi, C., Kannan, N., White, M., Di Luzio, M., Arnold, J. G., Wang, X., & Williams, J. R., 2014. An integrated modeling approach for estimating the water quality benefits of conservation practices at the river basin scale. *Journal of environmental quality*, 43(1), 177-198.
183. Sarfaraz, Q., Perveen, S., Shahab, Q., Muhammad, D., Bashir, S., Ahmed, N., ... & Asghar, I., 2014. Comparative effect of soil and foliar application of sulfur on maize. *IOSR Journal of Agriculture and Veterinary Science (IOSR-JAVS) ISSN: 2319-2380, p-ISSN: 2319-2372. Volume 7, Issue 4 Ver. I, PP 32-37.*
184. Sather, M. E., Mukerjee, S., Allen, K. L., Smith, L., Mathew, J., Jackson, C., ... & Van der Jagt, G., 2014. Gaseous oxidized mercury dry deposition measurements in the Southwestern USA: A comparison between Texas, eastern Oklahoma, and the Four Corners Area. *The Scientific World Journal*, 2014.
185. Scheffe, R. D., Lynch, J. A., Reff, A., Kelly, J. T., Hubbell, B., Greaver, T. L., & Smith, J. T., 2014. The aquatic acidification index: A new regulatory metric linking atmospheric and biogeochemical models to assess potential aquatic ecosystem recovery. *Water, Air, & Soil Pollution*, 225(2), 1-15.

186. Schiferl, L. D., Heald, C. L., Nowak, J. B., Holloway, J. S., Neuman, J. A., Bahreini, R., ... & Murphy, J. G., 2014. An investigation of ammonia and inorganic particulate matter in California during the CalNex campaign. *Journal of Geophysical Research: Atmospheres*, 119(4), 1883-1902.
187. Schwede, D. B., & Lear, G. G., 2014. A novel hybrid approach for estimating total deposition in the United States. *Atmospheric Environment*, 92, 207-220.
188. Seifert-Monson, L. R., Hill, B. H., Kolka, R. K., Jicha, T. M., Lehto, L. L., & Elonen, C. M., 2014. Effects of sulfate deposition on pore water dissolved organic carbon, nutrients, and microbial enzyme activities in a northern peatland. *Soil Biology and Biochemistry*, 79, 91-99.
189. Senior, L.A., 2014. A reconnaissance spatial and temporal assessment of methane and inorganic constituents in groundwater in bedrock aquifers, Pike County, Pennsylvania, 2012–13: U.S. Geological Survey Scientific Investigations Report 2014–5117, 91 p., <http://dx.doi.org/10.3133/sir20145117>.
190. Sheibley, R. W., Enache, M., Swarzenski, P. W., Moran, P. W., & Foreman, J. R., 2014. Nitrogen deposition effects on diatom communities in lakes from three national parks in Washington State. *Water, Air, & Soil Pollution*, 225(2), 1-23.
191. State of Maryland, 2014. Total maximum daily loads of nitrogen and phosphorus for Assawoman Bay, Isle of Wight Bay, Sinepuxent Bay, Newport Bay and Chincoteague Bay in the Coastal Bays Watersheds in Worcester County, Maryland. Dept. of the Environment, 1800 Washington Boulevard, Suite 540 Baltimore MD 21230-1718.
192. Stenback, G. A., Crumpton, W. G., & Schilling, K. E., 2014. Nitrate loss in Saylorville Lake reservoir in Iowa. *Journal of Hydrology*, 513, 1-6.
193. Stephan, C. C., 2014. Investigation of air moisture quality in the Ohio River Valley. Master's Thesis, Ohio University.
194. Stets, E. G., Kelly, V. J., & Crawford, C. G., 2014. Long-term trends in alkalinity in large rivers of the conterminous US in relation to acidification, agriculture, and hydrologic modification. *Science of The Total Environment*, 488, 280-289.
195. Stewart, K. J., Grogan, P., Coxson, D. S., & Siciliano, S. D., 2014. Topography as a key factor driving atmospheric nitrogen exchanges in arctic terrestrial ecosystems. *Soil Biology and Biochemistry*, 70, 96-112.

196. Stringfellow, W. T., Herr, J., Sheeder, S., Gulati, S., Weissmann, G., Camarillo, M. K., & Jue, M. Use of the WARMF Model to identify sources of oxygen impairment and potential management strategies for the San Joaquin River watershed, 2014. International Environmental Modelling and Software Society (iEMSs), 7th Intl. Congress on Env. Modelling and Software, San Diego, CA, USA, Daniel P. Ames, Nigel W.T. Quinn and Andrea E. Rizzoli (Eds.).
197. Strock, K. E., Nelson, S. J., Kahl, J. S., Saros, J. E., & McDowell, W. H., 2014. Decadal trends reveal recent acceleration in the rate of recovery from acidification in the Northeastern US. *Environmental Sci. Tech.*, 48(9), 4681-4689.
198. Sugden, J. C., Hartshorn, A. S., Dixon, J. L., & Montagne, C., 2014. A slice through time: A Hyalite Canyon soil lithosequence. *Field Guides*, 37, 101-114.
199. Sullivan, T. J., & Jenkins, J., 2014. The science and policy of critical loads of pollutant deposition to protect ecosystems in New York. *Annals of the New York Academy of Sciences*, 1313(1), 57-68.
200. Sullivan, P. L., Price, R. M., Miralles-Wilhelm, F., Ross, M. S., Scinto, L. J., Dreschel, T. W., ... & Cline, E., 2014. The role of recharge and evapotranspiration as hydraulic drivers of ion concentrations in shallow groundwater on Everglades tree islands, Florida (USA). *Hydrological Processes*, 28(2), 293-304.
201. Sun, H., Alexander, J., Gove, B., Pezzi, E., Chakowski, N., & Husch, J., 2014. Mineralogical and anthropogenic controls of stream water chemistry in salted watersheds. *Applied Geochemistry*, 48, 141-154.
202. Sunohara, M. D., Craiovan, E., Topp, E., Gottschall, N., Drury, C. F., & Lapen, D. R., 2014. Comprehensive nitrogen budgets for controlled tile drainage fields in eastern Ontario, Canada. *Journal of Environmental Quality*, 43(2), 617-630.
203. Sutton, M. A., Mason, K. E., Sheppard, L. J., Sverdrup, H., Haeuber, R., & Hicks, W. K., 2014. Nitrogen deposition, critical loads and biodiversity. Springer Science & Business Media.
204. Testa, J. M., Li, Y., Lee, Y. J., Li, M., Brady, D. C., Di Toro, D. M., ... & Fitzpatrick, J. J., 2014. Quantifying the effects of nutrient loading on dissolved O₂ cycling and hypoxia in Chesapeake Bay using a coupled hydrodynamic-biogeochemical model. *Journal of Marine Systems*, 139, 139-158.
205. Thamke, J. N., & Smith, B. D., 2014. Delineation of brine contamination in and near the East Poplar oil field, Fort Peck Indian Reservation, northeastern Montana, 2004-09. US Geological Survey Scientific Investigations Report, 5024, 40.

206. Thobaben, E. T., & Hamilton, S. K., 2014. The relative importance of groundwater and its ecological implications in diverse glacial wetlands. *The American Midland Naturalist*, 172(2), 205-218.
207. Tilak, A. S., Burchell, M. R., Youssef, M. A., Lowrance, R. R., & Williams, R. G., 2014. Field testing the Riparian Ecosystem Management Model on a riparian buffer in the North Carolina Upper Coastal Plain. *JAWRA Journal of the American Water Resources Association*, 50(3), 665-682.
208. Timm, B. C., Smith, S. M., & Greenspan, S. E., 2014. Remotely sensed mapping of *Ammophila* spp. distribution and density at Cape Cod National Seashore. *Journal of Coastal Research*, 30(4), 862-867.
209. Torres, A., Bond, T. C., Lehmann, C. M., Subramanian, R., & Hadley, O. L., 2014. Measuring organic carbon and black carbon in rainwater: Evaluation of methods. *Aerosol Science and Technology*, 48(3), 239-250.
210. Trappe, M. J., Minc, L. D., Kittredge, K. S., & Pink, J. W., 2014. Cesium radioisotope content of wild edible fungi, mineral soil, and surface litter in western North America after the Fukushima nuclear accident. *Canadian Journal of Forest Research*, 44(11), 1441-1452.
211. Tuttle, M. L., Fahy, J. W., Elliott, J. G., Grauch, R. I., & Stillings, L. L., 2014. Contaminants from Cretaceous black shale: I. Natural weathering processes controlling contaminant cycling in Mancos Shale, southwestern United States, with emphasis on salinity and selenium. *Applied Geochemistry*, 46, 57-71.
212. Vankoughnett, M. R., & Henry, H. A., 2014. Soil freezing and N deposition: transient vs multi-year effects on plant productivity and relative species abundance. *New Phytologist*, 202(4), 1277-1285.
213. Varekamp, J. C., McElroy, A. E., Mullaney, J. R., & Breslin, V. T., 2014. Metals, organic compounds, and nutrients in Long Island Sound: Sources, magnitudes, trends, and impacts. In *Long Island Sound* (pp. 203-283). Springer New York.
214. Vet, R., Artz, R. S., Carou, S., Shaw, M., Ro, C. U., Aas, W., ... & Reid, N. W., 2014. A global assessment of precipitation chemistry and deposition of sulfur, nitrogen, sea salt, base cations, organic acids, acidity and pH, and phosphorus. *Atmospheric Environment*, 93, 3-100.
215. Vijayaraghavan, K., Levin, L., Parker, L., Yarwood, G., & Streets, D., 2014. Response of fish tissue mercury in a freshwater lake to local, regional, and global

- changes in mercury emissions. *Environmental Toxicology and Chemistry*, 33(6), 1238-1247.
216. Vose, J. M., Swank, W. T., Adams, M. B., Amatya, D., Campbell, J., Johnson, S., ... & Rhoades, C., 2014. The role of experimental forests and ranges in the development of ecosystem science and biogeochemical cycling research. In *USDA Forest Service Experimental Forests and Ranges* (pp. 387-403). Springer New York.
217. Voutsina, N., Seliskar, D. M., & Gallagher, J. L., 2014. The facilitative role of *Kosteletzkya pentacarpos* in transitioning coastal agricultural land to wetland during sea level rise. *Estuaries and Coasts*, 1-10, doi: 10.1007/s12237-014-9795-4.
218. Walker, J. T., Robarge, W. P., & Austin, R., 2014. Modeling of ammonia dry deposition to a pocosin landscape downwind of a large poultry facility. *Agriculture, Ecosystems & Environment*, 185, 161-175.
219. Wang, F., Mladenoff, D. J., Forrester, J. A., Blanco, J. A., Scheller, R. M., Peckham, S. D., ... & Gower, S. T., 2014. Multimodel simulations of forest harvesting effects on long-term productivity and CN cycling in aspen forests. *Ecological Applications*, 24(6), 1374-1389.
220. Wedyan, M. A., 2014. Characterization of dissolved organic nitrogen (DON) in rainwater of Qassim, Saudi Arabia. *World Journal of Applied Sciences and Research* (ISSN 2249-4197) 3(2), 1-7.
221. Weigelt, A., Ebinghaus, R., Manning, A. J., Derwent, R. G., Simmonds, P. G., Spain, T. G., ... & Slemr, F. (2015). Analysis and interpretation of 18 years of mercury observations since 1996 at Mace Head, Ireland. *Atmospheric Environment*, 100, 85-93.
222. Wentz, D.A., Brigham, M.E., Chasar, L.C., Lutz, M.A., and Krabbenhoft, D.P., 2014, Mercury in the Nation's streams— Levels, trends, and implications: U.S. Geological Survey Circular 1395, 90 p., <http://dx.doi.org/10.3133/cir1395>.
223. Wetang'ula, G. N., & Wamalwa, H. M. Trace elements in rainfall collected around Menengai Area Kenya. *Proceedings World Geothermal Congress 2015, Melbourne, Australia, 19-25 April 2015*.
224. Wetherbee, G. A., Martin, R., Rhodes, M. F., and Chesney, T. A., 2014, External quality-assurance project report for the National Atmospheric Deposition Program/National Trends Network and Mercury Deposition Network, 2009–2010: U.S. Geological Survey Scientific Investigations Report 2013–5147, 53 p., <http://dx.doi.org/31.3133/sir20135147>.

225. White, A. F., 2014. Chemical weathering of Pleistocene glacial outwash sediments: a comparison of contemporary and long-term rates for soils and groundwaters. *Aquatic Geochemistry*, 20(2-3), 141-165.
226. White Mountain National Forest, 2014. Wilderness Stewardship Challenge: Air Quality Value Monitoring Plan.
227. Wright, G., Gustin, M. S., Weiss-Penzias, P., & Miller, M. B., 2014. Investigation of mercury deposition and potential sources at six sites from the Pacific Coast to the Great Basin, USA. *Science of the Total Environment*, 470, 1099-1113.
228. Xu, L., Chen, J., Yang, L., Yin, L., Yu, J., Qiu, T., & Hong, Y., 2014. Characteristics of total and methyl mercury in wet deposition in a coastal city, Xiamen, China: Concentrations, fluxes and influencing factors on Hg distribution in precipitation. *Atmospheric Environment*, 99, 10-16.
229. Xu, X., Akhtar, U., Clark, K., & Wang, X., 2014. Temporal variability of atmospheric total gaseous mercury in Windsor, ON, Canada. *Atmosphere*, 5(3), 536-556.
230. Xue, S. K., Hill, S., Pfeuffer, R., Gu, B., & Howard, N., 2014. Non-ECP annual permit compliance monitoring report for mercury in downstream receiving waters of the everglades protection area. Appendix 3-2, Attachment G in 2014 South Florida Environmental Report Vol III. South Florida Water Management District, West Palm Beach, FL.
http://my.sfwmd.gov/portal/page/portal/pg_grp_sfwmd_sfer/portlet_prevreport/2014_sfer/v3/appendices/v3_app3-2.pdf
231. Yang, G., Best, E. P., Whiteaker, T., Teklitz, A., & Yeghiazarian, L., 2014. A screening-level modeling approach to estimate nitrogen loading and standard exceedance risk, with application to the Tippecanoe River watershed, Indiana. *Journal of Environmental Management*, 135, 1-10.
232. Yu, X., Driscoll, C. T., Warby, R. A., Montesdeoca, M., & Johnson, C. E., 2014. Soil mercury and its response to atmospheric mercury deposition across the northeastern United States. *Ecological Applications*, 24(4), 812-822.
233. Zhao, S., & Liu, S., 2014. Scale criticality in estimating ecosystem carbon dynamics. *Global Change Biology*, 30, 2240-2251.
234. Zhu, J., Wang, T., Talbot, R., Mao, H., Yang, X., Fu, C., ... & Xie, M., 2014. Characteristics of atmospheric mercury deposition and size-fractionated

particulate mercury in urban Nanjing, China. *Atmospheric Chemistry and Physics*, 14(5), 2233-2244.

235. Zhu, W., Sommar, J., Lin, C. J., & Feng, X., 2014. Air–surface exchange of Hg⁰ measured by collocated micrometeorological and enclosure methods–Part 1: Data comparability and method characteristics. *Atmospheric Chemistry and Physics Discussions*, 14(16), 22273-22319.
236. Zhu, Y., Gu, B., Irick, D. L., Ewe, S., Li, Y., Ross, M. S., & Ma, L. Q., 2014. Wading bird guano contributes to Hg accumulation in tree island soils in the Florida Everglades. *Environmental Pollution*, 184, 313-319.