

2015 NADP Reference Listing

Includes 226 publications that used NADP data, or compared to NADP, or resulted from NRSP-3 activities in 2015. A publically available online listing of all citations using NADP data is accessible at: <http://nadp.slh.wisc.edu/lib/bibliography.aspx>.

1. Adane, Z. A., & Gates, J. B., 2015. 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.
2. Anderson, J., 2015. Geochemical assessment and separation of source waters in the Upper Boulder River watershed near Boulder, MT. Master's thesis, Montana Tech of the University of Montana.
3. Anderson, L., Berkelhammer, M., & Mast, M. A., 2015. Isotopes in North American Rocky Mountain Snowpack 1993–2014. *Quaternary Science Reviews*.
<http://dx.doi.org/10.1016/j.quascirev.2015.03.023>
4. Area, W. M., 2015. Reinitiation of Consultation for the Colowyo Coal Company, LP “Colowyo” Mine, Permit C-81-019–South Taylor/Lower.
5. Argyilan, E. P., Avis, P. G., Krekeler, M. P., & Morris, C. C., 2015. The origin of collapse features appearing in a migrating parabolic dune along the southern coast of Lake Michigan. *Aeolian Research*, 19, 137-149.
6. Ariya, P. A., Amyot, M., Dastoor, A., Deeds, D., Feinberg, A., Kos, G., ... & Toyota, K., 2015. Mercury physicochemical and biogeochemical transformation in the atmosphere and at atmospheric interfaces: A review and future directions. *Chemical Reviews*, 115, 3760–3802.
7. Arnott, J. C., Osenga, E. C., Cundiff, J. L., & Katzenberger, J. W., 2015. Engaging stakeholders on forest health: A model for integrating climatic, ecological, and societal indicators at the watershed scale. *Journal of Forestry*, 113(5), 447-453.
8. Asao, S., Sun, Z., & Gao, W., 2015, September. Effects of bias in solar radiation inputs on ecosystem model performance. In *SPIE Optical Engineering+ Applications* (pp. 96100C-96100C). International Society for Optics and Photonics.

Remote Sensing and Modeling of Ecosystems for Sustainability XII, edited by Wei Gao, Ni-Bin Chang, Proc. of SPIE Vol. 9610, 96100C.

9. Axler, R. P., Tikkanen, C. A., & Rose, C., 2015. An assessment of phytoplankton nutrient deficiency in Northern Minnesota acid-sensitive lakes. Technical Report NRRI/TR-91/18, Minnesota Pollution Control Agency Division of Air Quality Attn: Rick Strassman, St. Paul, MN 55155.
10. Balasubramanian, S., Koloutsou-Vakakis, S., McFarland, D. M., & Rood, M. J., 2015. Reconsidering emissions of ammonia from chemical fertilizer usage in Midwest USA. *Journal of Geophysical Research - Atmospheres*, 120, 6232-6246, DOI:10.1002/2015JD023219.
11. Balcom, P. H., Schartup, A. T., Mason, R. P. & Chen, C. Y., 2015. Sources of water column methylmercury across multiple estuaries in the Northeast U.S. *Marine Chemistry*, 177, 721-730.
12. Bardsley, A. I., Hammond, D. E., von Bitner, T., Buening, N. H., & Townsend-Small, A., 2015. Shallow groundwater conveyance of geologically derived contaminants to urban creeks in Southern California. *Environmental Science & Technology*, 49(16), 9610-9619.
13. BassiriRad, H., Lussenhop, J. F., Sehtiya, H. L., & Borden, K. K., 2015. Nitrogen deposition potentially contributes to oak regeneration failure in the Midwestern temperate forests of the USA. *Oecologia*, 177(1), 53-63.
14. Batte, M. T., & Forster, D. L., 2015. Old is new again: The economics of agricultural gypsum use. *Journal of the American Society of Farm Managers and Rural Appraisers*, <http://www.asfmra.org/2015-journal-of-asfmra/#>.
15. Beal, S., Osterberg, E. C., Zdanowicz, C., & Fisher, D., 2015. An ice core perspective on mercury pollution during the past 600 years. *Environmental Science & Technology*, 49, 7641-7647, DOI: 10.1021/acs.est.5b01033.
16. Bettez, N. D., Duncan, J. M., Groffman, P. M., Band, L. E., O'Neil-Dunne, J., Kaushal, S. S., ... & Law, N., 2015. Climate variation overwhelms efforts to reduce nitrogen delivery to coastal waters. *Ecosystems*, 1-13, DOI: 10.1007/s10021-015-9902-9.
17. Bhaskar, A. S., & Welty, C., 2015. Analysis of subsurface storage and streamflow generation in urban watersheds. *Water Resources Research*, 51(3), 1493-1513.

18. Blackwell, B. D., & Driscoll, C. T., 2015. Using foliar and forest floor mercury concentrations to assess spatial patterns of mercury deposition. *Environmental Pollution*, 202, 126-134.
19. Blackwell, B. D., & Driscoll, C. T., 2015. Deposition of mercury in forests along a montane elevation gradient. *Environmental Science & Technology*, 49(9), 5363-5370.
20. Bluck, G. M., 2015. Soybean yield response in high and low input production systems. Master's thesis, The Ohio State University.
21. Bluck, G. M., Lindsey, L. E., Dorrance, A. E., & Metzger, J. D., 2015. Soybean yield response to rhizobia inoculant, gypsum, manganese fertilizer, insecticide, and fungicide. *Agronomy Journal*, 107(5), 1757-1765.
22. Borne, K., Fassman-Beck, E., Winston, R., Hunt, W., & Tanner, C., 2015. Implementation and maintenance of floating treatment wetlands for urban stormwater management. *Journal of Environmental Engineering*, 10.1061/(ASCE)EE.1943-7870.0000959, 04015030.
23. Boucher, O., 2015. Atmospheric aerosols: Properties and climate impacts. Springer.
24. Bowen, G. J., & Good, S. P., 2015. Incorporating water isoscapes in hydrological and water resource investigations. *Wiley Interdisciplinary Reviews: Water*, 2(2), 107-119.
25. Bowie, R., Brown, J., & Felix, F., 2015. Excellence in Research, Education, and Public Service since 1951. UC Berkeley's Sagehen Creek Field Station Biennial Report, FY 2013-2015, http://sagehen.ucnrs.org/pubs/2015/FY13-15_Report-Final.pdf.
26. Brahney, J., Ballantyne, A. P., Kociolek, P., Leavitt, P. R., Farmer, G. L., & Neff, J. C., 2015. Ecological changes in two contrasting lakes associated with human activity and dust transport in western Wyoming. *Limnology and Oceanography*, 60(2), 678-695.
27. Brantley, S. L., DiBiase, R., Russo, T., Shi, Y., Lin, H., Davis, K. J., Kaye, M., Hill, L., Kaye, J., Neal, A. L. & Eissenstat, D., 2015. Designing a suite of measurements to understand the critical zone. *Earth Surface Dynamics Discussions*, 3, 1005-1059.
28. Brookshire, E. N. J., & Weaver, T., 2015. Long-term decline in grassland productivity driven by increasing dryness. *Nature Communications*, 6, 7148. DOI: 10.1038/ncomms8148.

29. Buck, C., Hammerschmidt, C. R., Bowman, K., Gill, G. A., & Landing, W. M., 2015. Flux of total and methyl mercury to the northern Gulf of Mexico from US estuaries. *Environmental Science & Technology*, DOI: 10.1021/acs.est.5b03538.
30. Butler, C. G., & Vasconcelos, J. G., 2015. The Effect of Highway Stormwater Runoff on Water Quality in the Little Cahaba Creek. *World Environmental and Water Resources Congress 2015: Floods, Droughts, and Ecosystems*.
31. Butler, T., Marino, R., Schwede, D., Howarth, R., Sparks, J., & Sparks, K., 2015. Atmospheric ammonia measurements at low concentration sites in the northeastern USA: Implications for total nitrogen deposition and comparison with CMAQ estimates. *Biogeochemistry*, 122, 191-210 (AMON).
32. Campbell, L. M., & Drevnick, P. E., 2015. Use of Catalogued Long-term Biological Collections and Samples for Determining Changes in Contaminant Exposure to Organisms. In *Environmental contaminants*, 431-459. Springer Netherlands.
33. Campbell, D. R., & Powers, J. M., 2015. Natural selection on floral morphology can be influenced by climate. *Proceedings of the Royal Society of London B: Biological Sciences*, 282(1808), 20150178.
34. Castro, M. S., & Sherwell, J., 2015. Effectiveness of emission controls to reduce the atmospheric concentrations of mercury. *Environmental Science & Technology*, DOI: 10.1021/acs.est.5b03576.
35. Chapman, S. K., Devine, K. A., Curran, C., Jones, R. O., & Gilliam, F. S., 2015. Impacts of soil nitrogen and carbon additions on forest understory communities with a long nitrogen deposition history. *Ecosystems*, 1-13, DOI: 10.1007/s10021-015-9922-5.
36. Chen, H. S., Wang, Z. F., Li, J., Tang, X., Ge, B. Z., Wu, X. L., Wild, O. & Carmichael, G. R., 2015. 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*, 8(9), 2857-2876.
37. Cheng, I., Zhang, L., & Mao, H., 2015. Relative contributions of gaseous oxidized mercury and fine and coarse particle-bound mercury to mercury wet deposition at nine monitoring sites in North America. *Journal of Geophysical Research: Atmospheres*, 120(16), 8549-8562.
38. Chumchal, M. M., & Drenner, R. W., 2015. An environmental problem hidden in plain sight? Small human-made ponds, emergent insects, and mercury

contamination of biota in the Great Plains. *Environmental Toxicology and Chemistry*, 34(6), 1197-1205.

39. Clay, N. A., Donoso, D. A., & Kaspari, M., 2015. Urine as an important source of sodium increases decomposition in an inland but not coastal tropical forest. *Oecologia*, 177, 571-579.
40. Cleavitt, N. L., Hinds, J. W., Poirot, R. L., Geiser, L. H., Dibble, A. C., Leon, B., ... & Pardo, L. H., 2015. Epiphytic macrolichen communities correspond to patterns of sulfur and nitrogen deposition in the northeastern United States. *The Bryologist*, 118(3), 304-324.
41. Clingerman, J., Petty, T., & Boettner, F., 2015. Chesapeake Bay Watershed Brook Trout Habitat and Climate Change Vulnerability Assessment.
42. Clow, D. W., Roop, H. A., Nanus, L., Fenn, M. E., & Sexstone, G. A., 2015. Spatial patterns of atmospheric deposition of nitrogen and sulfur using ion-exchange resin collectors in Rocky Mountain National Park, USA. *Atmospheric Environment*, 101, 149-157.
43. Coble, A. A., 2015. Biogeochemical cycling in Lake Superior tributaries: seasonality, quantity and quality of export. Doctoral Dissertation, Michigan Technological University.
44. Coburn, S., Dix, B., Edgerton, E., Holmes, C. D., Kinnison, D., Liang, Q., Schure, A. T., Wang, S., & Volkamer, R., 2015. Mercury oxidation from bromine chemistry in the free troposphere over the southeastern US. *Atmospheric Chemistry and Physics Discussions*, 15(20), 28317-28360.
45. Coleman Wasik, J. K., Engstrom, D. R., Mitchell, C. P. J., Swain, E. B., Monson, B. A., Balogh, S. J., Jeremiason, J. D., Branfireun, B. A., Kolka, R. K. & Almendinger, J. E., 2015. The effects of hydrologic fluctuation and sulfate regeneration on mercury cycling in an experimental peatland. *Journal of Geophysical Research: Biogeosciences*, 120(9), 1697-1715.
46. Coms, F. D., Fuller, T. J. & Schaffer, C. P., 2015. A mechanistic study of perfluorosulfonic acid membrane water permeance degradation in Air. *ECS Transactions*, 69(17), 189-204.
47. Crawford, K., & Lee, T., 2015. Using Nitrate, Chloride, Sodium, and Sulfate to Calculate Groundwater Age. 14TH Sinkhole Conference, NCKRI Symposium #5.

48. Cross, F. A., Evans, D. W. & Barber, R. T., 2015. Decadal declines of mercury in adult bluefish (1972–2011) from the Mid-Atlantic Coast of the USA. *Environmental Science & Technology*, 49(15), 9064-9072.
49. Cusack, D. F., Lee, J. K., McCleery, T. L. & LeCroy, C. S., 2015. Exotic grasses and nitrate enrichment alter soil carbon cycling along an urban–rural tropical forest gradient. *Global Change Biology*, 21(12), 4481-4496.
50. Daggett, C. T., Saros, J. E., Lafrancois, B. M., Simon, K. S., & Amirbahman, A., 2015. Effects of increased concentrations of inorganic nitrogen and dissolved organic matter on phytoplankton in boreal lakes with differing nutrient limitation patterns. *Aquatic Sciences*, 77(3), 511-521.
51. D'Amore, F., Bencardino, M., Cinnirella, S., Sprovieri, F. & Pirrone, N., 2015. Data quality through a web-based QA/QC system: Implementation for atmospheric mercury data from the global mercury observation system. *Environmental Science: Processes & Impacts*, 17(8), 1482-1491.
52. Dastoor, A., Ryzhkov, A., Durnford, D., Lehnerr, I., Steffen, A., & Morrison, H., 2015. Atmospheric mercury in the Canadian Arctic part II: Insight from modeling. *Science of The Total Environment*, 509–510, 16–27.
53. David, M. B., Mitchell, C. A., Gentry, L. E., & Salemm, R. K., 2015. Chloride sources and losses in two tile-drained agricultural watersheds. *Journal of Environmental Quality*, DOI:10.2134/jeq2015.06.0302.
54. Delavau, C., Chun, K. P., Stadnyk, T., Birks, S. J., & Welker, J. M., 2015. North American precipitation isotope ($\delta^{18}\text{O}$) zones revealed in time series modeling across Canada and northern United States. *Water Resources Research*, 51(2), 1284-1299.
55. Ellis, B. K., Craft, J. A., & Stanford, J. A., 2015. Long-term atmospheric deposition of nitrogen, phosphorus and sulfate in a large oligotrophic lake. *Peer J* 3:e841, DOI 10.7717/peerj.841.
56. Engel, B. J., Schaberg, P. G., Hawley, G. J., Rayback, S. A., Pontius, J., Kosiba, A. M. & Miller, E. K., 2016. Assessing relationships between red spruce radial growth and pollution critical load exceedance values. *Forest Ecology and Management*, 359, 83-91.
57. Ervens, B., 2015. Modeling the processing of aerosol and trace gases in clouds and fogs. *Chemical Reviews*, 115, 4157-4198, DOI: 10.1021/cr5005887.

58. Etheridge, J. R., Birgand, F., & Burchell, M. R., 2015. 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*, 78, 41-52.
59. Feng, G., Tewolde, H., Ma, L., Adeli, A., Sistani, K. R., & Jenkins, J. N., 2015. Simulating the fate of fall-and spring-applied poultry litter nitrogen in corn production. *Soil Science Society of America Journal*, 79(6), 1804-1814.
60. Fernandez, I. J., Allen, E., Amar, P., Boyd, J., Boyer, E. W., Burns, D., & Chestnut, M. L., 2015. Preliminary Individual Comments, Clean Air Scientific Advisory Committee, Secondary NAAQS Review Panel for Oxides of Nitrogen and Sulfur, December 1, 2015.
61. Filippelli, G. M., Risch, M., Laidlaw, M. A., Nichols, D. E., & Crewe, J., 2015. Geochemical legacies and the future health of cities: A tale of two neurotoxins in urban soils. *Elementa: Science of the Anthropocene*, 3(1), 000059, DOI: 10.12952/journal.elementa.000059.
62. Fisher, J. R., Dvorak, B. I., & Admiraal, D. M., 2015. Pollutant load estimates using regression models with in-stream measurements. *Journal of Environmental Engineering*, 0401508-1 -10, DOI: 10.1061/(ASCE)EE.1943-7870.0001049.
63. Fisichelli, N. A., Stefanski, A., Frelich, L. E., & Reich, P. B., 2015. Temperature and leaf nitrogen affect performance of plant species at range overlap. *Ecosphere*, 6(10), art186.
64. Flechard, C. R., Galy-Lacaux, C., Xu, W., Neuman, J. A., Tang, Y. S., Sutton, M. A., ... & Coheur, P. F. Towards validation of ammonia (NH₃) measurements from The IASI Satellite. Master's thesis.
65. Flotemersch, J. E., Leibowitz, S. G., Hill, R. A., Stoddard, J. L., Thoms, M. C., & Tharme, R. E., 2015. A watershed integrity definition and assessment approach to support strategic management of watersheds. *River Research and Applications*, DOI: 10.1002/rra.2978.
66. Fostier, A. H., Melendez-Perez, J. J., & Richter, L., 2015. Litter mercury deposition in the Amazonian rainforest. *Environmental Pollution*, 206, 605-610.
67. Fuller, M. E., Schaefer, C. E., Andaya, C., & Fallis, S., 2015. Production of particulate Composition B during simulated weathering of larger detonation residues. *Journal of Hazardous Materials*, 283, 1-6.

68. Fuss, C. B., Driscoll, C. T., & Campbell, J. L., 2015. Recovery from chronic and snowmelt acidification: Long-term trends in stream and soil water chemistry at the Hubbard Brook Experimental Forest, New Hampshire, USA. *Journal of Geophysical Research: Biogeosciences*.
69. Gamby, R. L., Hammerschmidt, C. R., Costello, D. M., Lamborg, C. H. & Runkle, J. R., 2015. Deforestation and cultivation mobilize mercury from topsoil. *Science of The Total Environment*, 532, 467-473.
70. Gann, G. L., Powell, C. H., Chumchal, M. M., & Drenner, R. W., 2015. Hg-contaminated terrestrial spiders pose a potential risk to songbirds at Caddo Lake (Texas/Louisiana, USA). *Environmental Toxicology and Chemistry*, 34(2), 303–306.
71. Ganzlin, P., 2015. Decadal scale responses of soil and ecosystem processes to forest restoration in Rocky Mountain conifer forests. Master's thesis, University of Montana-Missoula.
72. Gibson, Justin P., 2015. Estimation of deep drainage differences between till and no-till irrigated agriculture. *Dissertations & Theses in Earth and Atmospheric Sciences*. Paper 73. <http://digitalcommons.unl.edu/geoscidiss/73>.
73. Griffith, K. T., Ponette-González, A. G., Curran, L. M., & Weathers, K. C., 2015. Assessing the influence of topography and canopy structure on Douglas fir throughfall with LiDAR and empirical data in the Santa Cruz mountains, USA. *Environmental Monitoring and Assessment*, 187(5), 1-13.
74. Groh, T. A., Gentry, L. E., & David, M. B., 2015. Nitrogen removal and greenhouse gas emissions from constructed wetlands receiving tile drainage water. *Journal of Environmental Quality*, 44(3), 1001-1010.
75. Gu, B., & Howard, N., 2015. Non-ECP Annual Permit Compliance Monitoring Report for Mercury in Downstream Receiving Waters of the Everglades Protection Area. Appendix 3-2, Attachment G in 2015 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
76. Gu, C., Crane II, J., Hornberger, G., & Carrico, A., 2015. The effects of household management practices on the global warming potential of urban lawns. *Journal of Environmental Management*, 151, 233-242.

77. Gustin, M. S., Amos, H. M., Huang, J., Miller, M. B. & Heidecorn, K., 2015. Measuring and modeling mercury in the atmosphere: A critical review. *Atmospheric Chemistry and Physics*, 15(10), 5697-5713.
78. Hagedorn, B., & Whittier, R. B., 2015. Solute sources and water mixing in a flashy mountainous stream (Pahsimeroi River, US Rocky Mountains): Implications on chemical weathering rate and groundwater–surface water interaction. *Chemical Geology*, 391, 123-137.
79. Hamilton, S. K., 2015. Water Quality and Movement in Agricultural Landscapes. *The Ecology of Agricultural Landscapes: Long-Term Research on the Path to Sustainability (Chapter 11)*, 275.
80. Hansen, K., Pryor, S. C., Bøgh, E., Hornsby, K. E., Jensen, B., & Sørensen, L. L., 2015. Background concentrations and fluxes of atmospheric ammonia over a deciduous forest. *Agricultural and Forest Meteorology*, 214, 380-392.
81. Harrison, S. P., Gornish, E. S., & Copeland, S., 2015. Climate-driven diversity loss in a grassland community. *Proceedings of the National Academy of Sciences*, 112(28), 8672-8677.
82. Haupt, G., Lauzon, D., & Hall, B., 2015. Sulfur fertilization: Improving alfalfa yield and quality. *Crops and Soils*, 48(4), 26-30.
83. Haynes, K. M., & Mitchell, C. P., 2015. Precipitation input and antecedent soil moisture effects on mercury mobility in soil—laboratory experiments with an enriched stable isotope tracer. *Hydrological Processes*, 29, 4161-4174, DOI: 10.1002/hyp.10442.
84. Herndon, E. M., Jin, L., Andrews, D. M., Eissenstat, D. M., & Brantley, S. L., 2015. Importance of vegetation for manganese cycling in temperate forested watersheds. *Global Biogeochemical Cycles*, 29(2), 160-174.
85. Herndon, E. M., Dere, A. L., Sullivan, P. L., Norris, D., Reynolds, B., & Brantley, S. L., 2015. Landscape heterogeneity drives contrasting concentration–discharge relationships in shale headwater catchments. *Hydrology and Earth Science Systems*, 19, 3333.
86. Herod, M. N., Suchy, M., Cornett, R. J., Kieser, W. E., Clark, I. D., & Graham, G., 2015. The atmospheric transport of iodine-129 from Fukushima to British Columbia, Canada, and its deposition and transport into groundwater. *Water Resources Research*.

87. Homann, P. S., Darbyshire, R. L., Bormann, B. T., & Morrissette, B. A., 2015. Forest structure affects soil mercury losses in the presence and absence of wildfire. *Environmental Science & Technology*, 49, 12714–12722, DOI: 10.1021/acs.est.5b03355.
88. Huang, J. & Gustin, M. S., 2015. Uncertainties of gaseous oxidized mercury measurements using KCl-coated denuders, cation-exchange membranes, and nylon membranes: Humidity influences. *Environmental Science & Technology*, 49(10), 6102-6108.
89. Huang, J., Kang, S., Zhang, Q., Guo, J., Sillanpää, M., Wang, Y., ... & Tripathy, L., 2015. Characterizations of wet mercury deposition on a remote high-elevation site in the southeastern Tibetan Plateau. *Environmental Pollution*, 206, 518-526.
90. Huntington, T. G., Lewis, A., Amirbahman, A., Marvin-DiPasquale, M., & Culbertson, C. W., 2015. Assessment of the use of sorbent amendments for reduction of mercury methylation in wetland sediment at Acadia National Park, Maine: U.S. Geological Survey Scientific Investigations Report 2014–5234, 30 p., <http://dx.doi.org/10.3133/sir20145234>.
91. Hwang, H. H., Panno, S. V., & Hackley, K. C., 2015. Sources and changes in groundwater quality with increasing urbanization, northeastern Illinois. *Environmental & Engineering Geoscience*, 21(2), 75-90.
92. Inamdar, S., Dhillon, G., Singh, S., Parr, T., & Qin, Z., 2015. Particulate nitrogen exports in stream runoff exceed dissolved nitrogen forms during large tropical storms in a temperate, headwater, forested watershed. *Journal of Geophysical Research: Biogeosciences*, 120(8), 1548-1566.
93. International Joint Commission, 2015. Atmospheric Deposition of Mercury in the Great Lakes Basin. www.ijc.org.
94. Irick, D. L., Gu, B., Li, Y. C., Inglett, P. W., Frederick, P. C., Ross, M. S., ... & Ewe, S. M., 2015. Wading bird guano enrichment of soil nutrients in tree islands of the Florida Everglades. *Science of The Total Environment*, 532, 40-47.
95. Jain, T. B., & Graham, R. T., 2015. Decrease in sapling nutrient concentrations for six northern Rocky Mountain coniferous species. *Forest Science*, 61(3), 570-578.
96. Kennedy, C. D., Buda, A. R., Kleinman, P. J., & DeMoranville, C. J., 2015. Chemical and isotopic tracers illustrate pathways of nitrogen loss in cranberry floodwaters. *Journal of Environmental Quality*, 44(4), 1326-1332.

97. Kennedy, C. D., Kleinman, P. J., & DeMoranville, C. J., 2015. Spatial scale and field management affect patterns of phosphorus loss in cranberry floodwaters. *Journal of Environmental Quality*, DOI:10.2134/jeq2014.11.0485.
98. Kentisbeer, J., Leeson, S. R., Clark, T., Malcolm, H. M. & Cape, J. N., 2015. Influences on and patterns in total gaseous mercury (TGM) at Harwell, England. *Environmental Science: Processes & Impacts*, 17(3), 586-595.
99. Ketterings, Q., Godwin, G., Gami, S., Dietzel, K., Cherney, J. & Czymmek, K., 2012. Sulfur for alfalfa in New York State. *WCU*, 22(2), 12-16.
100. Kim, S. 2015. Particulate matter and ozone: Remote sensing and source attribution. Doctoral dissertation, Harvard University, Graduate School of Arts & Sciences.
101. Kim, P. S., Jacob, D. J., Fisher, J. A., Travis, K., Yu, K., Zhu, L., ... & Perring, A. E., 2015. Sources, seasonality, and trends of southeast US aerosol: An integrated analysis of surface, aircraft, and satellite observations with the GEOS-Chem chemical transport model. *Atmospheric Chemistry and Physics*, 15(18), 10411-10433.
102. Kim, B. J., Richter, L. V., Hatter, N., Tung, C. K., Ahner, B. A., & Wu, M., 2015. An array microhabitat system for high throughput studies of microalgal growth under controlled nutrient gradients. *Lab on a Chip*, 15(18), 3687-3694.
103. Kinsman-Costello, L. E., O'Brien, J. M., & Hamilton, S. K., 2015. Natural stressors in uncontaminated sediments of shallow freshwaters: The prevalence of sulfide, ammonia, and reduced iron. *Environmental Toxicology and Chemistry*, 34, 467-479, DOI: 10.1002/etc.2801.
104. Kleinman, P. J., Church, C., Saporito, L. S., McGrath, J. M., Reiter, M. S., Allen, A. L., ... & Joern, B. C., 2015. Phosphorus leaching from agricultural soils of the Delmarva Peninsula, USA. *Journal of Environmental Quality*, 44(2), 524-534.
105. Knierim, K. J., Hays, P. D., & Bowman, D., 2015. Quantifying the variability in *Escherichia coli* (*E. coli*) throughout storm events at a karst spring in northwestern Arkansas, United States. *Environmental Earth Sciences*, 74, 4607-4623.
106. 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 & Physics Discussions*, 14, 13731-13767.

107. Knoepp, J. D., Taylor, R. S., Boring, L. R., & Miniati, C. F., 2015. Influence of forest disturbance on stable nitrogen isotope ratios in soil and vegetation profiles. *Soil Science Society of America Journal*, 79(5), 1470-1481.
108. Knowles, J. F., Harpold, A. A., Cowie, R., Zeliff, M., Barnard, H. R., Burns, S. P., ... & Williams, M. W., 2015. The relative contributions of alpine and subalpine ecosystems to the water balance of a mountainous, headwater catchment. *Hydrological Processes*, 29, 4794-4808, DOI: 10.1002/hyp.10526.
109. Kronholm, S. C., 2015. Hydrologic flowpath and other natural and anthropogenic factors controlling nitrogen movement from the landscape to streams. Doctoral dissertation, University of Minnesota.
110. Kuhne, W., 2015. Update to Agency for Toxic Substances and Disease Registry 2011 Report on Assessment of Biota Exposure to Mercury Originating from Savannah River Site (No. SRNL-STI-2015-00393). SRS.
111. Kuschner, M. A., 2015. A model of carrying capacity and ecosystem impacts in a large-scale, bivalve-dominated agro-ecosystem: hard clam aquaculture in Cherrystone Inlet, VA. Master's thesis, The College of William and Mary.
112. Lan, X., Talbot, R., Laine, P., Torres, A., Lefer, B. & Flynn, J., 2015. Atmospheric mercury in the Barnett Shale Area, Texas: Implications for emissions from oil and gas processing. *Environmental Science & Technology*, 49(17), 10692-10700.
113. Landa, E. R., & Shanley, J. B., 2015. Ahead of his time: Jacob Lipman's 1930 estimate of atmospheric sulfur deposition for the conterminous United States. *Soil Science*, 180(3), 87-89.
114. Langman, J. B., Blowes, D. W., Sinclair, S. A., Krentz, A., Amos, R. T., Smith, L. J., ... & Smith, L., 2015. Early evolution of weathering and sulfide depletion of a low-sulfur, granitic, waste rock in an Arctic climate: A laboratory and field site comparison. *Journal of Geochemical Exploration*, 156, 61-71.
115. Lawrence, G., Hazlett, P. W., Fernandez, I. J., Ouimet, R., Bailey, S. W., Shortle, W. C., ... & Antidormi, M. R., 2015. Declining acidic deposition begins reversal of forest-soil acidification in the northeastern US and eastern Canada. *Environmental Science & Technology*, 49, 13103-13111.
116. Lee, H.-M., Paulot, F., Henze, D. K., Travis, K., Jacob, D. J., Pardo, L. H., & Schichtel, B. A., 2015. Sources of nitrogen deposition in Federal Class I areas in the US. *Atmospheric Chemistry & Physics Discussions*, 15(17), 23089-23130.

117. Liu, G., Cai, Y., Tachiev, G., & Lagos, L., 2015. Mercury mass budget estimates and cycling in the Florida Everglades. *Microbiology of the Everglades Ecosystem*, 68-88.
118. Long, R. P., Bailey, S. W., Horsley, S. B., Hall, T. J., Swistock, B. R., & DeWalle, D. R., 2015. Long-term effects of forest liming on soil, soil leachate, and foliage chemistry in northern Pennsylvania. *Soil Science Society of America Journal*, 79(4), 1223-1236.
119. Long, J. W., Quinn-Davidson, L. N., & Skinner, C. N., eds., 2014. Science synthesis to support socioecological resilience in the Sierra Nevada and southern Cascade Range. Gen. Tech. Rep. PSW-GTR-247. Albany, CA: U.S. Department of Agriculture, Forest Service, Pacific Southwest Research Station. 712, 2.
120. Lopez-Rodriguez, G., Sotomayor-Ramirez, D., Amador, J. A., & Schroder, E. C., 2015. Contribution of nitrogen from litter and soil mineralization to shade and sun coffee (*Coffea arabica* L.) agroecosystems. *Tropical Ecology*, 56(2), 155-167.
121. Ma, M., Wang, D., Du, H., Sun, T., Zhao, Z., & Wei, S., 2015. Atmospheric mercury deposition and its contribution of the regional atmospheric transport to mercury pollution at a national forest nature reserve, southwest China. *Environmental Science and Pollution Research*, 1-12, DOI 10.1007/s11356-015-5152-9.
122. Maas, B. J., 2015. Interpretation of geochemical signatures from modern carbonate springs to the rock record. Doctoral dissertation, Louisiana State University and Agriculture and Mechanical College.
123. Makus, D. J., 2015. Spinach leaf quality and yield is improved by supplemental gypsum application in two soil types in semi-arid South Texas. *Subtropical Plant Science*, 65, 24-30.
124. Menger, A., 2015. Response of streamflow and stream chemistry to pine beetle induced tree mortality across northern Colorado. Master's thesis, Colorado State University.
125. Michael, R., Stuart, A. L., Trotz, M. A., & Akiwumi, F., 2016. Source apportionment of wet-deposited atmospheric mercury in Tampa, Florida. *Atmospheric Research*, 170, 168-175.
126. Midgley, M. G., Brzostek, E., & Phillips, R. P., 2015. Decay rates of leaf litters from arbuscular mycorrhizal trees are more sensitive to soil effects than litters from ectomycorrhizal trees. *Journal of Ecology*, 103(6), 1454-1463.

127. Millar, N., & Robertson, G. P., 2015. Nitrogen transfers and transformations in row-crop ecosystems. *The Ecology of Agricultural Landscapes: Long-Term Research on the Path to Sustainability*, 213.
128. Miller, S. A., Gordon, S. N., Eldred, P., Beloin, R. M., Wilcox, S., Raggon, M., Andersen, H., & Muldoon, A., 2014. Northwest Forest Plan—the first 20 years (1994-2013): Watershed condition status and trend. Gen. Tech. Rep. PNW-GTR-XXX. Portland, OR: U.S. Department of Agriculture, Forest Service, Pacific Northwest Research Station. 90 p.
129. Mitra, G. N., 2015. Chloride (Cl⁻) Uptake. In *Regulation of nutrient uptake by plants*, 167-173. Springer India.
130. Mohan, S. M., 2015. An overview of particulate dry deposition: Measuring methods, deposition velocity and controlling factors. *International Journal of Environmental Science and Technology*, 1-16, DOI 10.1007/s13762-015-0898-7.
131. Morris, K., Mast, A., Clow, D., Wetherbee, G., Baron, J., Taipale, C., Blett, T., Gay, D., & Bowker, D., 2015. 2013 monitoring and tracking wet nitrogen deposition at Rocky Mountain National Park: June 2015. Natural Resource Report NPS/NRSS/ARD/NRR—2015/997. National Park Service, Fort Collins, Colorado.
132. Mullen, R. A., 2015. Risk mitigation of pipeline assets through improved corrosion modeling. Doctoral dissertation, Massachusetts Institute of Technology.
133. Ngan, F., Cohen, M., Luke, W., Ren, X., & Draxler, R., 2015. Meteorological modeling using the WRF-ARW Model for Grand Bay intensive studies of atmospheric mercury. *Atmosphere*, 6(3), 209-233.
134. Nguyen, T. B., Crouse, J. D., Teng, A. P., Clair, J. M. S., Paulot, F., Wolfe, G. M., & Wennberg, P. O., 2015. Rapid deposition of oxidized biogenic compounds to a temperate forest. *Proceedings of the National Academy of Sciences*, 112(5), E392-E401.
135. Ochsner, T., Fiebrich, C., & Neel, C., 2015. Estimating Groundwater Recharge Using the Oklahoma Mesonet (Interim). Oklahoma Water Resources Research Institute.
136. Oczkowski, A., Wigand, C., Hanson, A., Markham, E., Miller, K. M., & Johnson, R., 2015. Nitrogen retention in salt marsh systems across nutrient-enrichment, elevation, and precipitation regimes: A multiple-stressor experiment. *Estuaries and Coasts*, 1-14, DOI 10.1007/s12237-015-9975-x.

137. Official, R., & Schuler, T. M. Draft Environmental Impact Statement 2016-2020 Fernow Experimental Forest. Tucker County, West Virginia, United States Department of Agriculture Forest Service, Northern Research Station.
138. Ogneva-Himmelberger, Y., Huang, L. & Xin, H., 2015. CALPUFF and CAFOs: Air Pollution Modeling and Environmental Justice Analysis in the North Carolina Hog Industry. *ISPRS International Journal of Geo-Information*, 4(1), 150-171.
139. Orem, W., Newman, S., Osborne, T. Z., & Reddy, K. R., 2015. Projecting changes in Everglades soil biogeochemistry for carbon and other key elements, to possible 2060 climate and hydrologic scenarios. *Environmental Management*, 55(4), 776-798.
140. Osborne, B. B., Baron, J. S., & Wallenstein, M. D., 2015. Moisture and temperature controls on nitrification differ among ammonia oxidizer communities from three alpine soil habitats. *Frontiers of Earth Science*, 1-12, DOI 10.1007/s11707-015-0556-x.
141. Pearson, C., Schumer, R., Trustman, B. D., Rittger, K., Johnson, D. W., & Obrist, D., 2015. Nutrient and mercury deposition and storage in an alpine snowpack of the Sierra Nevada, USA. *Biogeosciences Discussions*, 12(1), 593-636.
142. Peleg, M., Tas, E., Obrist, D., Matveev, V., Moore, C., Gabay, M. & Luria, M., 2015. Observational evidence for involvement of nitrate radicals in nighttime oxidation of mercury. *Environmental Science & Technology*, 49(24), 14008-14018.
143. Phan, T. T., Capo, R. C., Stewart, B. W., Graney, J. R., Johnson, J. D., Sharma, S., & Toro, J., 2015. Trace metal distribution and mobility in drill cuttings and produced waters from Marcellus Shale gas extraction: Uranium, arsenic, barium. *Applied Geochemistry*, 60, 89-103.
144. Pienaar, J. J., Beukes, J. P., Van Zyl, P. G., Lehmann, C. M. B. & Aherne, J., 2015. Passive diffusion sampling devices for monitoring ambient air concentrations. *Comprehensive Analytical Chemistry*, 70, 13-52.
145. Potvin, L. R., Kane, E. S., Chimner, R. A., Kolka, R. K., & Lilleskov, E. A., 2015. 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.
146. Prasad, R., Hochmuth, G. J., & Boote, K. J., 2015. Estimation of nitrogen pools in irrigated potato production on sandy soil using the model SUBSTOR. *PloS one*, 10(1), e0117891.

147. Press, D., 2015. American environmental policy: The failures of compliance, abatement and mitigation. Edward Elgar Publishing.
148. Prenni, A. J., Day, D. E., Evanski-Cole, A. R., Sive, B. C., Hecobian, A., Zhou, Y., Gebhart, K. A., Hand, J. L., Sullivan, A. P., Li, Y. & Schurman, M. I., 2015. Oil and gas impacts on air quality in federal lands in the Bakken region: An overview of the Bakken Air Quality Study and first results. *Atmospheric Chemistry and Physics Discussions*, 15(20), 28749-28792.
149. Puchalski, M. A., Rogers, C. M., Baumgardner, R., Mishoe, K. P., Price, G., Smith, M. J., Watkins, N., & Lehmann, C. M., 2015. A statistical comparison of active and passive ammonia measurements collected at Clean Air Status and Trends Network (CASTNET) sites. *Environmental Science: Processes & Impacts* 17, 358. (AMON)
150. Qiao, X., Tang, Y., Hu, J., Zhang, S., Li, J., Kota, S. H., ... & Ying, Q., 2015. Modeling dry and wet deposition of sulfate, nitrate, and ammonium ions in Jiuzhaigou National Nature Reserve, China using a source-oriented CMAQ model: Part I. Base case model results. *Science of The Total Environment*, 532, 831-839.
151. Qiao, X., Xiao, W., Jaffe, D., Kota, S. H., Ying, Q., & Tang, Y., 2015. Atmospheric wet deposition of sulfur and nitrogen in Jiuzhaigou National Nature Reserve, Sichuan Province, China. *Science of The Total Environment*, 511, 28-36.
152. Quentin, A. G., Pinkard, E. A., Ryan, M. G., Tissue, D. T., Baggett, L. S., Adams, H. D., Maillard, P., Marchand, J., Landhäusser, S. M., Lacoite, A., & Gibon, Y., 2015. Non-structural carbohydrates in woody plants compared among laboratories. *Tree physiology*, 35(11), 1146-1165.
153. Ran, L., Gilliam, R., Binkowski, F. S., Xiu, A., Pleim, J., & Band, L., 2015. Sensitivity of the Weather Research and Forecast/Community Multiscale Air Quality modeling system to MODIS LAI, FPAR, and albedo. *Journal of Geophysical Research: Atmospheres*, 120(16), 8491-8511.
154. Rao, L. E., Matchett, J. R., Brooks, M. L., Johnson, R. F., Minnich, R. A., & Allen, E. B., 2015. Relationships between annual plant productivity, nitrogen deposition and fire size in low-elevation California desert scrub. *International Journal of Wildland Fire*, 24(1), 48-58.
155. Rhodes, A. L., & Horton, N. J., 2015. Establishing baseline water quality for household wells within the Marcellus Shale gas region, Susquehanna County, Pennsylvania, USA. *Applied Geochemistry*, 60, 14-28.

156. Richardson, J. B., & Friedland, A. J., 2015. Mercury in coniferous and deciduous upland forests in northern New England, USA: Implications from climate change. *Biogeosciences Discuss.*, 12, 11463–11498, DOI:10.5194/bgd-12-11463-2015.
157. Risch, M. R., & Fredericksen, A. L., 2015. Mercury and methylmercury in reservoirs in Indiana: U.S. Geological Survey Professional Paper 1813, 57 p., <http://dx.doi.org/10.3133/pp1813>.
158. Robertson, W. M., & Sharp, J. M., 2015. Estimates of net infiltration in arid basins and potential impacts on recharge and solute flux due to land use and vegetation change. *Journal of Hydrology*, 522, 211-227. (NTN)
159. Robinson, R. B., Barnett, T. W., Harwell, G. R., Moore, S. E., Kulp, M. & Schwartz, J. S., 2008. pH and acid anion time trends in different elevation ranges in the Great Smoky Mountains National Park. *Journal of Environmental Engineering*, 134(9), 800-808.
160. Rose, L. A., Elliott, E. M., & Adams, M. B., 2015. Triple nitrate isotopes indicate differing nitrate source contributions to streams across a nitrogen saturation gradient. *Ecosystems*, 18(7), 1209-1223.
161. Rose, L. A., Sebestyen, S. D., Elliott, E. M., & Koba, K., 2015. Drivers of atmospheric nitrate processing and export in forested catchments. *Water Resources Research*, 51(2), 1333-1352.
162. Saleh, D., & Domagalski, J., 2015. SPARROW Modeling of nitrogen sources and transport in rivers and streams of California and adjacent states. *U.S. Journal of the American Water Resources Association (JAWRA)*, 1-21, DOI: 10.1111/1752-1688.12325.
163. Sardans, J., & Peñuelas, J., 2015. Potassium: A neglected nutrient in global change. *Global Ecology and Biogeography*, 24(3), 261-275.
164. Saylor, R., Myles, L., Sibble, D., Caldwell, J., & Xing, J., 2015. Recent trends in gas-phase ammonia and PM_{2.5} ammonium in the southeast United States. *Journal of the Air & Waste Management Association*, 65(3), 347-357.
165. Schwab, J. J., Casson, P., Brandt, R., Husain, L., Dutkewicz, V., Wolfe, D., Demerjian, K. L., Civerolo, K. L., Rattigan, O. V., Felton, H. D. & Dukett, J. E., 2015. Atmospheric Chemistry Measurements at Whiteface Mountain, NY: Cloud Water Chemistry, Precipitation Chemistry, and Particulate Matter.

166. Schulwitz, S. E., Chumchal, M. M. & Johnson, J. A., 2015. Mercury concentrations in birds from two atmospherically contaminated sites in North Texas, USA. *Archives of Environmental Contamination and Toxicology*, 69(4), 390-398.
167. Schuster, M. J., 2015. Increased rainfall variability and N addition accelerate litter decomposition in a restored prairie. *Oecologia*, 1-11, DOI 10.1007/s00442-015-3396-1.
168. Seo, Y. S., Han, Y. J., Holsen, T. M., Choi, E., Zoh, K. D. & Yi, S. M., 2015. Source identification of total mercury (TM) wet deposition using a Lagrangian particle dispersion model (LPDM). *Atmospheric Environment*, 104, 102-111.
169. Seok, B., Helmig, D., Liptzin, D., Williams, M. W. & Vogel, C. S., 2015. Snowpack-atmosphere gas exchanges of carbon dioxide, ozone, and nitrogen oxides at a hardwood forest site in northern Michigan. *Elementa: Science of the Anthropocene*, 3(1), 000040.
170. Shanley, J. B., Engle, M. A., Scholl, M., Krabbenhoft, D. P., Brunette, R., Olson, M. L., & Conroy, M. E., 2015. High mercury wet deposition at a "clean air" site in Puerto Rico. *Environmental Science & Technology*, 49(20), 12474-12482.
171. Sickles, I. I., & Shadwick, D. S., 2015. Air quality and atmospheric deposition in the eastern US: 20 years of change. *Atmospheric Chemistry and Physics*, 15(1), 173-197. (NTN)
172. Simmonds, M. B., Li, C., Lee, J., Six, J., Kessel, C., & Linquist, B. A., 2015. Modeling methane and nitrous oxide emissions from direct-seeded rice systems. *Journal of Geophysical Research: Biogeosciences*, 120(10), 2011-2035.
173. Singh, A., Serbin, S. P., McNeil, B. E., Kingdon, C. C., & Townsend, P. A., 2015. Imaging spectroscopy algorithms for mapping canopy foliar chemical and morphological traits and their uncertainties. *Ecological Applications*, 25(8), 2180-2197.
174. Sinha, P., & Wade, A., 2015. Assessment of leaching tests for evaluating potential environmental impacts of PV Module field breakage. *IEEE Journal of Photovoltaics*, 5(6), 1710-1714.
175. Sippl, K., 2015. Private and civil society governors of mercury pollution from artisanal and small-scale gold mining: A network analytic approach. *The Extractive Industries and Society*, 2(2), 198-208.

176. Shaddick, G., & Zidek, J. V., 2015. Spatio-temporal methods in environmental epidemiology. CRC Press.
177. Shah, V., Jaeglé, L., Gratz, L. E., Ambrose, J. L., Jaffe, D. A., Selin, N. E., Song, S., Campos, T. L., Flocke, F. M., Reeves, M., & Stechman, D., 2015. Origin of oxidized mercury in the summertime free troposphere over the southeastern US. *Atmospheric Chemistry and Physics Discussions*, 15(19), 26839-26893.
178. Slemmons, K. E., Saros, J. E., Stone, J. R., McGowan, S., Hess, C. T., & Cahl, D., 2015. Effects of glacier meltwater on the algal sedimentary record of an alpine lake in the central US Rocky Mountains throughout the late Holocene. *Journal of Paleolimnology*, 53(4), 385-399.
179. Smith, D. R., King, K. W., & Williams, M. R., 2015. What is causing the harmful algal blooms in Lake Erie? *Journal of Soil and Water Conservation*, 70(2), 27A-29A.
180. Smith, K. P., & Waldron, M. C., 2015. Water quality in the Cambridge, Massachusetts, drinking-water source area, 2005–8. U.S. Geological Survey Fact Sheet 2015–3030, 6 p., <http://dx.doi.org/10.3133/fs20153030/>.
181. Song, S., Selin, N. E., Soerensen, A. L., Angot, H., Artz, R., Brooks, S., ... & Zhang, Q., 2015. Top-down constraints on atmospheric mercury emissions and implications for global biogeochemical cycling. *Atmospheric Chemistry and Physics*, 15, 7103-7125, DOI:10.5194/acp-15-7103-2015.
182. Spaulding, S. A., Otu, M. K., Wolfe, A. P., & Baron, J. S., 2015. Paleolimnological records of nitrogen deposition in shallow, high-elevation lakes of Grand Teton National Park, Wyoming, USA. *Arctic, Antarctic, and Alpine Research*, 47(4), 703-717.
183. Steiner, J., Strickland, T., Kleinman, P., Havstad, K., Moorman, T., Moran, M., ... & McCarty, G., 2015. The Long Term Agroecosystem Research Network-Shared research strategy. In *Interagency Conference on Research in the Watersheds*.
184. Steinke, K., Rutan, J., & Thurgood, L., 2015. Corn response to nitrogen at multiple sulfur rates. *Agronomy Journal*, April 1.
185. Stephan, K., Kavanagh, K. L., & Koyama, A., 2015. Comparing the influence of wildfire and prescribed burns on watershed nitrogen biogeochemistry using ^{15}N natural abundance in terrestrial and aquatic ecosystem components. *PLoS ONE*, 10(4), e0119560, DOI:10.1371/journal.pone.0119560.

186. Strickland, T. C., Scully, B. T., Hubbard, R. K., Sullivan, D. G., Abdo, Z., Savabi, M. R., ... & Hawkins, G. L., 2015. Effect of conservation practices on soil carbon and nitrogen accretion and crop yield in a corn production system in the southeastern coastal plain, United States. *Journal of Soil and Water Conservation*, 70(3), 170-181.
187. Sullivan, T. J., 2015. Air pollutant deposition and its effects on natural resources in New York State. Cornell University Press.
188. Sutherland, J. W., Acker, F. W., Bloomfield, J. A., Boylen, C. W., Charles, D. F., Daniels, R. A., ... & Nierzwicki-Bauer, S. A., 2015. Brooktrout Lake case study: Biotic recovery from acid deposition 20 years after the 1990 Clean Air Act amendments. *Environmental Science & Technology*, 49(5), 2665-2674.
189. Templer, P. H., Weathers, K. C., Lindsey, A., Lenoir, K., & Scott, L., 2015. Atmospheric inputs and nitrogen saturation status in and adjacent to Class I wilderness areas of the northeastern US. *Oecologia*, 177(1), 5-15. (NTN)
190. Thompson, T. M., Rodriguez, M. A., Barna, M. G., Gebhart, K. A., Hand, J. L., Day, D. E., ... & Schichtel, B. A., 2015. Rocky Mountain National Park reduced nitrogen source apportionment. *J. Geophys. Res. Atmos.*, 120, 4370-4384, DOI:10.1002/2014JD022675.
191. Tinkham, W. T., Denner, R., & Graham, R. T., 2015. Climate, snowpack, and streamflow of Priest River Experimental Forest, revisited. Gen. Tech. Rep. RMRS-GTR-331. Fort Collins, CO: US Department of Agriculture, Forest Service, Rocky Mountain Research Station.
192. Todd, R. W., Cole, N. A., Hagevoort, G. R., Casey, K. D., & Auvermann, B. W., 2015. Ammonia losses and nitrogen partitioning at a southern High Plains open lot dairy. *Atmospheric Environment*, 110, 75-83.
193. Trowbridge, P. R., Davis, J. A., Mumley, T., Taberski, K., Feger, N., Valiela, L., Ervin, J., Arsem, N., Olivieri, A., Carroll, P., & Coleman, J., 2015. The Regional Monitoring Program for Water Quality in San Francisco Bay, California, USA: Science in support of managing water quality. *Regional Studies in Marine Science*, in press, <http://dx.doi.org/10.1016/j.rsma.2015.10.002> 2352-4855/.
194. Tulloss, E. M. & Cadenasso, M. L., 2015. Effects of nitrogen deposition on multiple ecosystem services of the California oak savanna. General Technical Report PSW-GTR-251. Berkeley, CA: U.S. Department of Agriculture, Forest Service, Pacific Southwest Research Station: 199-208.

195. Turner, J., 2015. TMDL Report: Lake Tallavana, WBID 540A, Ochlockonee - St. Marks Basin, Nutrients. Florida Department of Environmental Protection, Div. of Env. Assessment and Restoration, Ochlockonee, FL.
196. United States Environmental Protection Agency, 2015. The Importance of Clean Air to Clean Water in the Chesapeake Bay.
http://www.epa.gov/sites/production/files/2015-06/documents/cb_airwater_fact_sheet_jan2015.pdf.
197. Van Damme, M., Clarisse, L., Dammers, E., Liu, X., Nowak, J. B., Clerbaux, C., ... & Coheur, P. F., 2015. Towards validation of ammonia (NH₃) measurements from the IASI satellite. *Atmospheric Measurement Techniques*, 8(3), 1575-1591.
198. Van Gestel, N. C., Dhungana, N., & Zak, J. C., 2015. Seasonal microbial and nutrient responses during a 5-year reduction in the daily temperature range of soil in a Chihuahuan Desert ecosystem. *Oecologia*, 1-13, DOI 10.1007/s00442-015-3452-x.
199. Verma, S., Bhattarai, R., Bosch, N. S., Cooke, R. C., Kalita, P. K., & Markus, M., 2015. Climate change impacts on flow, sediment and nutrient export in a Great Lakes watershed using SWAT. *Clean – Soil, Air, Water*, 43(9999), 1–11.
200. 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*, 38(1), 35-44.
201. Walsh, B., Costanzo, S. D., Dennison, W. C., Campbell, J. P., Lehman, M., Nortrup, M., Carmouche, C., Kelley, E., & Petersen, P., 2015. Natural resource condition assessment for Prince William Forest Park: National Capital Region. Natural Resource Report NPS/PRWI/NRR—2015/1051. National Park Service, Fort Collins, Colorado.
202. Wang, Y., Xie, Y., Chai, L., Dong, W., Zhang, Q., & Zhang, L., 2014. Impact of the 2011 southern US drought on ground-level fine aerosol concentration in summertime. *J. Atmos. Sci.*, DOI:10.1175/JAS-D-14-0197.1, in press. (NTN)
203. Wasiuta, V., Lafrenière, M. J., & Norman, A. L., 2015. Atmospheric deposition of sulfur and inorganic nitrogen in the Southern Canadian Rocky Mountains from seasonal snowpacks and bulk summer precipitation. *Journal of Hydrology*, 523, 563-573.
204. Weigelt, A., Ebinghaus, R., Manning, A. J., Derwent, R. G., Simmonds, P. G., Spain, T. G., Jennings, S. G. & Slemr, F., 2015. Analysis and interpretation of 18 years of

mercury observations since 1996 at Mace Head, Ireland. *Atmospheric Environment*, 100, 85-93.

205. Weiss-Penzias, P., Amos, H. M., Selin, N. E., Gustin, M. S., Jaffe, D. A., Obrist, D., Sheu, G. R. & Giang, A., 2015. Use of a global model to understand speciated atmospheric mercury observations at five high-elevation sites. *Atmospheric Chemistry and Physics*, 15(3), 1161-1173.
206. White, C., 2015. Effect of increased atmospheric nitrogen deposition and elevated CO₂ on traits responsible for carnivory in the Sundews *Drosera rotundifolia* and *Drosera intermedia*. Senior Honors thesis, University of Michigan.
207. White, A. B., Neiman, P. J., Creamean, J. M., Coleman, T., Ralph, F. M., & Prather, K. A., 2015. The impacts of California's San Francisco Bay Area gap on precipitation observed in the Sierra Nevada during HMT and CalWater. *Journal of Hydrometeorology*, 16, 1048-1069, DOI: 10.1175/JHM-D-14-0160.1.
208. Wilkison, D. H., & Armstrong, D. J., 2015. Water-quality assessment of the Lower Grand River Basin, Missouri and Iowa, USA, in support of integrated conservation practices. *River Research and Applications*, DOI: 10.1002/rra.2887.
209. Williams, M. L., MacCoy, D. E., & Maret, T. R., 2015. Evaluation of mercury in rainbow trout collected from Duck Valley Indian Reservation reservoirs, southwestern Idaho and northern Nevada, 2007, 2009, and 2013. U.S. Geological Survey Scientific Investigations Report, 2015-5079, 18 p., <http://dx.doi.org/10.3133/sir20155079>.
210. Wine, M. L., Hendrickx, J. M., Cadol, D., Zou, C. B., & Ochsner, T. E., 2015. Deep drainage sensitivity to climate, edaphic factors, and woody encroachment, Oklahoma, USA. *Hydrological Processes*, 29, 3779-3789, DOI: 10.1002/hyp.10470.
211. Wisniewski, E. A., 2015. The mercury and autism debate: What has shaped the public's perception? Doctoral dissertation, Indiana University of Pennsylvania.
212. Wolf, E. C., & Cooper, D. J., 2015. Fens of the Sierra Nevada, California, USA: patterns of distribution and vegetation. *Mires and Peat*, 15(08), 1-22. <http://www.mires-and-peat.net/>, ISSN 1819-754X.
213. Wright, M. T., Fram, M. S., & Belitz, K., 2015. Geochemical conditions and the occurrence of selected trace elements in groundwater basins used for public drinking-water supply, desert and basin and range hydrogeologic provinces, 2006-11 - California GAMA Priority Basin Project: U.S. Geological Survey Scientific Investigations Report 2014-5173, 48 p., <http://dx.doi.org/10.3133/sir20145173>.

214. Wright, L. P., & Zhang, L., 2015. An approach estimating bidirectional air-surface exchange for gaseous elemental mercury at AMNet sites. *Journal of Advances in Modeling Earth Systems*, 10.1002/2014MS000367. (AMNet)
215. Wu, J., Cao, Y., Pan, W. & Pan, W., 2015. The status of mercury emission from coal combustion power station. In *Coal Fired Flue Gas Mercury Emission Controls* (pp. 19-30). Springer Berlin Heidelberg.
216. Xie, Y., & Zhang, J., 2015. Chloride-induced stress corrosion cracking of used nuclear fuel welded stainless steel canisters: A review. *Journal of Nuclear Materials*, 466, 85-93.
217. Yahya, K., Wang, K., Zhang, Y., & Kleindienst, T. E., 2015. Application of WRF/Chem version 3.4. 1 over North America under the AQMEII Phase 2: evaluation of 2010 application and responses of air quality and meteorology–chemistry interactions to changes in emissions and meteorology from 2006 to 2010. *Geoscientific Model Development Discussions*, 8(2), 1639-1686. (NTN)
218. Yang, L. H., Ostrovsky, D., Rogers, M. C. & Welker, J. M., 2015. Intra-population variation in the natal origins and wing morphology of overwintering western monarch butterflies *Danaus plexippus*. *Ecography*, 38, 001-010, DOI: 10.1111/ecog.01994.
219. Zhang, F., Chen, J. M., Pan, Y., Birdsey, R. A., Shen, S., Ju, W., & Dugan, A. J., 2015. Impacts of inadequate historical disturbance data in the early twentieth century on modeling recent carbon dynamics (1951–2010) in conterminous US forests. *Journal of Geophysical Research: Biogeosciences*, 120(3), 549-569.
220. Zhou, Q., Driscoll, C. T., Moore, S. E., Kulp, M. A., Renfro, J. R., Schwartz, J. S., ... & Lynch, J. A., 2015. Developing critical loads of nitrate and sulfate deposition to watersheds of the Great Smoky Mountains National Park, USA. *Water, Air, & Soil Pollution*, 226(8), 1-16.
221. Zhou, Q., Driscoll, C. T., & Sullivan, T. J., 2015. Responses of 20 lake-watersheds in the Adirondack region of New York to historical and potential future acidic deposition. *Science of The Total Environment*, 511, 186-194. (NTN)
222. Zhu, L., Henze, D. K., Bash, J. O., Cady-Pereira, K. E., Shephard, M. W., Luo, M. & Capps, S. L., 2015. Sources and impacts of atmospheric NH₃: Current understanding and frontiers for modeling, measurements, and remote sensing in North America. *Current Pollution Reports*, 1(2), 95-116.

223. Zhu, L., Henze, D., Bash, J., Jeong, G. R., Cady-Pereira, K., Shephard, M., Luo, M., Paulot, F., & Capps, S., 2015. Global evaluation of ammonia bidirectional exchange and livestock diurnal variation schemes. *Atmospheric Chemistry & Physics*, 15, 12823-12843, www.atmos-chem-phys.net/15/12823/2015/, DOI:10.5194/acp-15-12823-2015.
224. Zhu, W., Sommar, J., Lin, C. J., & Feng, X., 2015. Mercury vapor air–surface exchange measured by collocated micrometeorological and enclosure methods– Part I: Data comparability and method characteristics. *Atmos. Chem. Phys*, 15, 685-702.
225. Zhu, W., Sommar, J., Lin, C. J., & Feng, X., 2015. Mercury vapor air–surface exchange measured by collocated micrometeorological and enclosure methods– Part II: Bias and uncertainty analysis. *Atmospheric Chemistry and Physics*, 15(10), 5359-5376.
226. Zou, C., 2015. Soil management and nitrogen dynamics in burley tobacco rotations. Doctoral dissertation, University of Kentucky.