

2013 NADP Reference Listing

Includes 208 publications that used NADP data, compared to NADP, or resulted from NRSP-3 activities in 2013. A publically available online database that lists citations using NADP data is accessible at: <http://nadp.slh.wisc.edu/lib/bibliography.aspx>.

1. Adeoye, E., Allison, P., Blackburn, C., Blocker, M., Grams, J., Jones, S., ... & Zitricki, B., 2013. The Effects of Simulated Acid Rain on Corn Seed Germination. Frostburg State University Term Paper.
2. Altieri, K. E., Hastings, M. G., Gobel, A. R., Peters, A. J., & Sigman, D. M. , 2013. Isotopic composition of rainwater nitrate at Bermuda: The influence of air mass source and chemistry in the marine boundary layer. *J. Geophys. Res. Atmos.* 118: 11,304–11,316. doi:10.1002/jgrd.50829.
3. Barr, Inc., 2013. Endangered Species Act: Biological Evaluation, Flint Hills Resources Pine Bend, LLC Rosemount, Minnesota,
[http://yosemite.epa.gov/r5/r5ard.nsf/48b4cb59f43efe518625745800533fca/d5a343c69158c02886257b970070992b/\\$FILE/Flint%20Hills%20Biological%20Assessment.pdf](http://yosemite.epa.gov/r5/r5ard.nsf/48b4cb59f43efe518625745800533fca/d5a343c69158c02886257b970070992b/$FILE/Flint%20Hills%20Biological%20Assessment.pdf).
4. Barco, J., Gunawan, S., & Hogue, T. S., 2013. Seasonal controls on stream chemical export across diverse coastal watersheds in the USA. *Hydrological Processes* 27: 1440–1453. doi: 10.1002/hyp.9294.
5. Baron, J. S. , Hall, E. K., Nolan, B. T., Finlay, J. C., Bernhardt, E. S., Harrison, J. A., Chan, F., & Boyer, E. W., 2013. The interactive effects of excess reactive nitrogen and climate change on aquatic ecosystems and water resources of the United States. *Biogeochemistry* 114: 71–92.
6. Barger, N. N., Castle, S. C., & Dean, G. N., 2013. Denitrification from nitrogen-fixing biologically crusted soils in a cool desert environment, southeast Utah, USA. *Ecological Processes*, 2(1): 16.
7. Barnes, R. T., Williams, M. W., Parman, J. N., Hill, K., & Caine, N. Thawing glacial and permafrost features contribute to nitrogen export from Green Lakes Valley, Colorado Front Range, USA. *Biogeochemistry* 1–18. doi:10.1007/s10533-013-9886-5.
8. Barret, M., Dommergue, A., Ferrari, C. P., & Magand, O., 2013. The monitoring of atmospheric mercury species in the Southern Indian Ocean at Amsterdam Island (38° S). In *E3S Web of Conferences* 1: 27001. EDP Sciences.
9. Bash, J. O., Cooter, E. J., Dennis, R. L., Walker, J. T., & Pleim, J. E., 2013. Evaluation of a regional air-quality model with bidirectional NH₃ exchange coupled to an agroecosystem model. *Biogeosciences* 10(3): 1635–1645.

10. Bash, J. O., Carlton, A. G., Hutzell, W. T., & Bullock Jr., O. R., 2013. Regional air quality model application of the aqueous-phase photo reduction of atmospheric oxidized mercury by dicarboxylic acids. *Atmosphere* 5(1): 1–15.
11. Becker, C. J., 2013. Groundwater quality and the relation between pH values and occurrence of trace elements and radionuclides in water samples collected from private wells in part of the Kickapoo Tribe of Oklahoma Jurisdictional Area, central Oklahoma, 2011. U.S. Geological Survey Scientific Investigations Report 2012–5253, 47 p., 5 apps.
12. Benedict, K. B., Carrico, C. M., Kreidenweis, S. M., Schichtel, B., Malm, W. C., & Collett Jr., J. L. , 2013. A seasonal nitrogen deposition budget for Rocky Mountain National Park. *Ecological Applications* 23(5): 1156–1169.
13. Benedict, K. B., Chen, X., Sullivan, A. P., Li, Y., Day, D., Prenni, A. J., ... & Collett, J. L., 2013. Atmospheric concentrations and deposition of reactive nitrogen in Grand Teton National Park. *Journal of Geophysical Research: Atmospheres* 118(20): 11–875.
14. Benoit, J. M., Cato, D. A., Denison, K. C., & Moreira, A. E., 2013. Seasonal Mercury Dynamics in a New England Vernal Pool. *Wetlands* 33(5): 887–894.
15. Bettez, N. D., & Groffman, P. M., 2013. Nitrogen deposition in and near an urban ecosystem. *Environmental Science & Technology*. doi: dx.doi.org/10.1021/es400664b.
16. Bettez, N. D., Marino, R., Howarth, R. W., & Davidson, E. A., 2013. Roads as nitrogen deposition hot spots. *Biogeochemistry*. doi: 10.1007/s10533-013-9847-z.
17. Blesh, J., & Drinkwater, L. E., 2013. The impact of nitrogen source and crop rotation on nitrogen mass balances in the Mississippi River basin. *Ecological Applications* 23(5): 1017–1035, <http://dx.doi.org/10.1890/12-0132.1>.
18. Borst, M., & Brown, R. A., 2013. Chloride released from three permeable pavement surfaces after winter salt application. *Journal of the American Water Resources Association*.
19. Boynton, W. R., Hodgkins, C. L. S., O'Leary, C. A., Bailey, E. M., Bayard, A. R., & Wainger, L. A., 2013. Multi-decade responses of a tidal creek system to nutrient load reductions: Mattawoman Creek, Maryland USA. *Estuaries and Coasts* 1–17. doi:10.1007/s12237-013-9690-4
20. Brahney, J., Ballantyne, A. P., Sievers, C., & Neff, J. C., 2013. Increasing Ca²⁺ deposition in the western US: The role of mineral aerosols. *Aeolian Research*, <http://dx.doi.org/10.1016/j.aeolia.2013.04.003>.
21. Burg, K., Resline, J., & Smith, P., 2013. Evaluation of lead concentrations in well water from the Piedmont Area of Harford County, Maryland. Maryland Department of Natural Resources, DNR Publication No. 12-10162013-672.
22. Busenberg, E., & Plummer, L. N. A., 2013. 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* 1–24. doi:10.1007/s10498-013-9202-y.

23. Buzzelli, C., Wan, Y., Doering, P. H., & Boyer, J. N., 2013. Seasonal dissolved inorganic nitrogen and phosphorus budgets for two sub-tropical estuaries in south Florida, USA. *Biogeosciences Discussions* 10: 2377–2413.
24. Cadwallader, A., Castagna, B., & Dinwoodie, S., 2013. Designing a Stormwater Runoff Control System to Help Prevent Pollution of Flint Pond. Major Qualifying Project Report submitted to the Faculty of Worcester Polytechnic Institute. In partial fulfillment of the requirements for the Degree of Bachelor of Science.
25. Cady-Pereira, K. E., Shephard, M. W., Henze, D. K., Zhu, L., Pinder, R. W., Bash, J. O., ... & Luo, M., 2013. Ammonia Measurements by the NASA Tropospheric Emission Spectrometer (TES). Presented at the 12th Annual CMAS Conference, Chapel Hill, NC, October 28-30, 2013.
26. Cao, J., Tie, X., Dabberdt, W. F., Jie, T., Zhao, Z., An, Z., & Shen, Z., 2013. On the potential high acid deposition in northeastern China. *Journal of Geophysical Research: Atmospheres* 118: 1–13. doi:10.1002/jgrd.50381, 2013.
27. Carson, M. A., 2013. Responses to Long-term Fertilization and Burning: Impacts on Nutrient Dynamics and Microbial Composition in a Tallgrass Prairie. Master's Thesis, Kansas State University.
28. Castle, S. C., & Neff, J. C., 2013. What controls plant nutrient use in high elevation ecosystems? *Oecologia* 173:1551–1561. doi:10.1007/s00442-013-2695-7.
29. Chanat, J. G., Miller, C. V., Bell, J. M., Majedi, B. F., & Brower, D. P., 2013. Summary and interpretation of discrete and continuous water-quality monitoring data, Mattawoman Creek, Charles County, Maryland, 2000–11. U.S. Geological Survey Scientific Investigations Report 2012-5265, 42 p.
30. Chapmann, L. Y., McNulty, S. G., Sun, G., & Zhang, Y., 2013. Net nitrogen mineralization in natural ecosystems across the conterminous U.S. *International Journal of Geosciences* 4: 1300–1312.
31. Chen, S. M., Qiu, X., Zhang, L., Yang, F., & Blanchard, P., 2013. Method development estimating ambient mercury concentration from monitored mercury wet deposition. *Atmospheric Chemistry and Physics Discussions* 13(5): 12771–12796.
32. Chen, L., Wang, H. H., Liu, J. F., Zhang, W., Hu, D., Chen, C., & Wang, X. J., 2013. Intercontinental transport and deposition patterns of atmospheric mercury from anthropogenic emissions. *Atmospheric Chemistry and Physics Discussions* 13(9): 25185–25218.
33. Cheng, I., Zhang, L., Blanchard, P., Dalziel, J., & Tordon, R., 2013. Concentration-weighted trajectory approach to identifying sources of speciated atmospheric mercury at an urban coastal site in Nova Scotia, Canada. *Atmospheric Chemistry & Physics Discussions* 13: 4183–4219.
34. Civerolo, K. L., and Roy, K. M., 2013. On the road to recovery: Acid rain and the Adirondacks. *New York State Conservationist* 67:17–19.

35. Clark, C. M., Morefield, P. E., Gilliam, F. S., & Pardo, L. H., 2013. Estimated losses of plant biodiversity in the United States from historical N deposition (1985-2010). *Ecology* 94(7): 1441-1448.
36. Classen, A. T., Chapman, S. K., Whitham, T. G., Hart, S. C., & Koch, G. W., 2013. Long-term insect herbivory slows soil development in an arid ecosystem. *Ecosphere* 4(5): article 52.
37. Coble, A. A., & Hart, S. C., 2013. The significance of atmospheric nutrient inputs and canopy interception of precipitation during ecosystem development in piñon-juniper woodlands of the southwestern USA. *Journal of Arid Environments* 98: 79–87.
38. Cowles, M. K., 2013. Regression and hierarchical regression models. In *Applied Bayesian Statistics* (pp. 179-205). Springer: New York.
39. Cui, S., Shi, Y., Groffman, P. M., Schlesinger, W. H., & Zhu, Y. G., 2013. Centennial-scale analysis of the creation and fate of reactive nitrogen in China (1910–2010). *Proceedings of the National Academy of Sciences* 110(6): 2052–2057.
40. Curtis, L. R., Morgans, D. L., Thoms, B., & Villenueve, D., 2013. Extreme precipitation appears a key driver of mercury transport from the watershed to Cottage Grove Reservoir, Oregon. *Environmental Pollution* 176: 178–184.
41. Cusack, D. F., 2013. Soil nitrogen levels are linked to decomposition enzyme activities along an urban-remote tropical forest gradient. *Soil Biology and Biochemistry* 57: 192–203.
42. Das, R., Bizimis, M., & Wilson, A. M., 2013. Tracing mercury seawater vs. atmospheric inputs in a pristine SE USA salt marsh system: Mercury isotope evidence. *Chemical Geology* 336: 50-61.
43. DiGirolomo, M. F., Allen, D. C., Stehman, S. V., Stout, S. L., & Wiedenbeck, J., 2013. Insect damage to wind-thrown and standing live black cherry resulting from delayed salvage after a major abiotic disturbance. *Northern Journal of Applied Forestry* 30(3): 101–108.
44. Divers, M. T., Elliott, E. M., & Bain, D. J., 2013. Constraining nitrogen inputs to urban streams from leaking sewers using inverse modeling: Implications for dissolved inorganic nitrogen (DIN) retention in urban environments. *Environmental Science & Technology* 47(4): 1816–1823.
45. Dodson, J., 2013. Draft TMDL report: Springs Coast Basin, Weeki Wachee Spring and Weeki Wachee River (WBIDs 1382B and 1382F). Nutrients June 2013.
46. Dodson, J., 2013. Final report: Nutrient TMDL for Jackson Blue Spring and Merritt's Mill Pond (WBIDs 180Z and 180A). Nutrients January 2013.
47. Drenner, R. W., Chumchal, M. M., Jones, C., Lehmann, C. M., Gay, D., & Donato, D., 2013. Effects of mercury deposition and coniferous forests on the mercury contamination of fish in the south central United States. *Environmental Science & Technology* 47(3): 1274–1279.
doi: 10.1021/es303734n.
48. Duarte, N., Pardo, L. H., & Robin-Abbott, M. J., 2013. Susceptibility of forests in the northeastern USA to nitrogen and sulfur deposition: Critical load exceedance and forest health. *Water, Air, & Soil Pollution* 224(2): 1–21.

49. Eckley, C. S., Parsons, M. T., Mintz, R., Lapalme, M., Mazur, M., Tordon, R., ... & St Louis, V., 2013. Impact of closing Canada's largest point-source of mercury emissions on local atmospheric mercury concentrations. *Environmental Science & Technology* 47(18): 10339–10348.
50. Ellis, R. A., Jacob, D. J., Payer, M., Zhang, L., Holmes, C. D., Schichtel, B. A., Blett, T., Porter, E., Pardo, L. H., and Lynch, J. A., 2013. Present and future nitrogen deposition to national parks in the United States: Critical load exceedances. *Atmospheric Chemistry and Physics Discussions* 13(4): 9151–9178.
51. Environmental Protection Agency, 2013. At a Glance, Environmental and Health Results Report: Clean Air Interstate Rule, Acid Rain Program, and Former NOx Budget Trading Program, http://www.epa.gov/AIRMARKETS/progress/ARPCAIR11_downloads/ARPCAIR11_environmental_health.pdf.
52. Epstein, D. M., Neilson, B. T., Goodman, K. J., Stevens, D. K., & Wurtsbaugh, W. A., 2013. A modeling approach for assessing the effect of multiple alpine lakes in sequence on nutrient transport. *Aquatic Sciences* 75:199–212. doi:10.1007/s00027-012-0267-2.
53. Evans, D. M., Schoenholtz, S. H., Wigington Jr., P. J., Griffith, S. M., & Floyd, W. C., 2013. Spatial and temporal patterns of dissolved nitrogen and phosphorus in surface waters of a multi-land use basin. *Environmental Monitoring and Assessment* 1–15.
54. Faustini, J., Thom, T. A., Hunt, K. J., Nilius, R., & Burns, R. E., 2013, November. Water resource inventory and assessment: Cape Romain National Wildlife Refuge, Charleston County, South Carolina. U.S. Fish and Wildlife Service, Southeast Region. Atlanta, Georgia. 84 p.
55. Fenn, M. E., Ross, C. S., Schilling, S. L., Baccus, W. D., Larrabee, M. A., & Lofgren, R. A., 2013. Atmospheric deposition of nitrogen and sulfur and preferential canopy consumption of nitrate in forests of the Pacific Northwest, USA. *Forest Ecology and Management* 302: 240–253.
56. Fleming, C. S., 2013. Nitrogen and Phosphorus Management in the Mid-Atlantic. Doctoral Dissertation, Virginia Polytechnic Institute and State University.
57. Florida Department of Environmental Protection, 2013. Final Report: Mercury TMDL for the State of Florida, Watershed Evaluation and TMDL Section, October 24, 2013.
58. Franzen, C., 2013. Determination of Atmospheric Mercury and its Deposition in Remote Areas of the Northern and Southern Hemisphere. Dissertation, Ruprecht-Karls-Universität, Heidelberg, Germany.
59. Freedman, Z., Eisenlord, S. D., Zak, D. R., Xue, K., He, Z., & Zhou, J., 2013. Towards a molecular understanding of N cycling in northern hardwood forests under future rates of N deposition. *Soil Biology and Biochemistry* 66: 130–138.
60. Gall, H. E., Park, J., Harman, C. J., Jawitz, J. W., & Rao, P. S. C., 2013. Landscape filtering of hydrologic and biogeochemical responses in managed catchments. *Landscape Ecology* 28:651–664. DOI: 10.1007/s10980-012-9829-x.

61. Gay, D. A., Schmeltz, D., Prestbo, E., Olson, M., Sharac, T., & Tordon, R., 2013. The Atmospheric Mercury Network: Examination of a long-term atmospheric mercury record across North America. *Atmospheric Chemistry & Physics* 13: 11339–11349. doi:10.5194/acp-13-11339-2013.
62. Geddes, J. A., & Murphy, J. G., 2013. Observations of reactive nitrogen oxide fluxes by eddy covariance above two mid-latitude North American mixed hardwood forests. *Atmospheric Chemistry and Physics Discussions* 13(10): 27891–27936.
63. Gichuki, S. W., & Mason, R. P., 2013. Mercury and metals in South African precipitation. *Atmospheric Environment*. doi: 10.1016/j.atmosenv.2013.04.009.
64. Giese, M., Brueck, H., Gao, Y. Z., Lin, S., Steffens, M., Kögel-Knabner, I., ... & Han, X. G., 2013. N balance and cycling of Inner Mongolia typical steppe: A comprehensive case study of grazing effects. *Ecological Monographs* 83(2): 195–219.
65. Glibert, P. M., Hinkle, D. C., Sturgis, B., & Jesien, R. V., 2013. Eutrophication of a Maryland/Virginia coastal lagoon: A tipping point. *Ecosystem Changes, and Potential Causes. Estuaries and Coasts* 1-19. doi: 10.1007/s12237-013-9630-3.
66. Goodsite, M. E., Outridge, P. M., Christensen, J. H., Dastoor, A., Muir, D., Travnikov, O., & Wilson, S., 2013. How well do environmental archives of atmospheric mercury deposition in the Arctic reproduce rates and trends depicted by atmospheric models and measurements? *Science of the Total Environment* 452: 196–207.
67. Goss, N. R., Mladenov, N., Seibold, C. M., Chowanski, K., Seitz, L., Wellemeyer, T. B., & Williams, M. W., 2013. Quantifying particulate matter deposition in Niwot Ridge, Colorado: Collection of dry deposition using marble inserts and particle imaging using the FlowCAM. *Atmospheric Environment* 80: 549–558.
68. Grant, R. F., 2013. Modelling changes in nitrogen cycling to sustain increases in forest productivity under elevated atmospheric CO₂ and contrasting site conditions. *Biogeosciences Discussions* 10(4): 6783–6837.
69. Grant, R. H., 2013. Atmospheric wet deposition relationships to season and precipitation in south western Indiana. In *Proceedings of the Indiana Academy of Science* 97: 497–508.
70. Gu, B. & Howard, N., 2013. Annual Permit Compliance Monitoring Report for Mercury in Downstream Receiving Waters of the Everglades Protection Area. Appendix 3-2, Attachment F in 2012 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/2013_sfer/v3/appndices/v3_app3-2.pdf.
71. Guretzky, J. A., Schacht, W., Snell, L., Soper, J., Moore, S., Watson, A., & Klopfenstein, T., 2013. Nitrogen input effects on herbage accumulation and presence of pasture plant species. *Agronomy Journal* 105: 915–921. doi:10.2134/agronj2012.0458.

72. Guretzky, J. A., Schacht, W. H., Wingeyer, A., Klopfenstein, T. J., & Watson, A., 2013. Litter deposition and nitrogen return in rotationally stocked smooth bromegrass pastures. *Agronomy Journal* 105 (4): 915–921.
73. Gustin, M. S., Huang, J., Miller, M. B., Peterson, C., Jaffe, D. A., Ambrose, J., Finley, B. D., Lyman, S. N., Call, K., Talbot, R., Feddersen, D., Mao, H., and Lindberg, S. E., 2013. Do we understand what the mercury speciation instruments are actually measuring? Results of RAMIX. *Environmental Science & Technology*. dx.doi.org/10.1021/es3039104.
74. Gustin, M., Weiss-Penzias, P. S., & Peterson, C., 2012. Investigating sources of gaseous oxidized mercury in dry deposition at three sites across Florida, USA. *Atmospheric Chemistry and Physics* 12(19): 9201–9219 (not previously listed).
75. Hale, R. L., 2013. Coupled Hydrology and Biogeochemistry in Social-Ecological Watersheds. Dissertation, Arizona State University.
76. Hale, R. L., Hoover, J. H., Wollheim, W. M., & Vörösmarty, C. J., 2013. History of nutrient inputs to the Northeastern United States, 1930–2000. *Global Biogeochemical Cycles*. doi: 10.1002/gbc.20049.
77. Hansen, A. M., & Gay, D.A., 2013. Observations of mercury wet deposition in Mexico. *Environmental Science and Pollution Research* 20: 8316–8325. doi: 10.1007/s11356-013-2012-3 2013.
78. Heard, A. M., 2013. Global Change and Mountain Lakes: Establishing Nutrient Criteria and Critical Loads for Sierra Nevada Lakes. Dissertation, Environmental Sciences Department, University of California at Riverside.
79. Heath, T. J., & Baron, J. S., 2013. Climate, not atmospheric deposition, drives the biogeochemical mass-balance of a mountain watershed. *Aquatic Geochemistry*. doi: 10.1007/s10498-013-9199-2
80. Heckel, P. F., Keener, T. C., & LeMasters, G. K., 2013. Background soil mercury: An unrecognized source of blood mercury in infants? *Open Journal of Soil Science* 3: 23–29.
81. Heineman, M., Eichenwald, Z., Gamache, M., Miner, R., & Keohan, P. A., 2013. Comprehensive Water Quality Model of Boston's Drainage Systems. In *World Environmental and Water Resources Congress 2013: Showcasing the Future*, pp. 63-76. ASCE.
82. Herr, J., van Werkhoven, K., Connor, T., Borel, N., Bergstrom, H., & Murakami, T., 2013. Opportunistic Real-time Management of Saline Drainage Conjoined with San Joaquin River Restoration. Final Report, University of California at Merced.
83. Herring, G., Eagles-Smith, C. A., Ackerman, J. T., Gawlik, D. E., & Beerens, J. M., 2013. Landscape factors and hydrology influence mercury concentrations in wading birds breeding in the Florida Everglades, USA. *Science of The Total Environment* 458: 637–646.
84. Hinkle, S. R., Bencala, K. E., Wentz, D. A., & Krabbenhoft, D. P., 2013. Mercury and methylmercury dynamics in the hyporheic zone of an Oregon stream. *Water, Air, & Soil Pollution* 225(1): 1694–1710. doi: 10.1007/s11270-013-1694-y1-17.

85. Holland, K. & Hicks, R., 2013. Final Report: Nutrient TMDL for Rainbow Springs Group and Rainbow Springs Group Run (WBIDs 1320A and 1320B). Florida Department of Environmental Protection.
86. Houlton, B., Boyer, E., Finzi, A., Galloway, J., Leach, A., Liptzin, D., et al., 2013. Intentional versus unintentional nitrogen use in the United States: Trends, efficiency and implications. *Biogeochemistry*. doi: 10.1002/gbc.20049.
87. Huang, J., Chang, F. C., Wang, S., Han, Y. J., Castro, M., Miller, E., & Holsen, T. M., 2013. Mercury wet deposition in the eastern United States: Characteristics and scavenging ratios. *Environmental Science: Processes & Impacts* 15(12): 2321–2328.
88. Huang, J., Miller, M. B., Weiss-Penzias, P., & Gustin, M. S., 2013. Comparison of gaseous oxidized Hg measured by KCl-coated denuders, and nylon and cation exchange membranes. *Environ. Sci. Technol.* 47: 7307–7316.
89. Inglett, P. W., & Inglett, K. S., 2013. Biogeochemical changes during early development of restored calcareous wetland soils. *Geoderma* 192: 132–141.
90. James, R. T., & McCormick, P., 2012. The sulfate budget of a shallow subtropical lake. *Fundamental and Applied Limnology/Archiv für Hydrobiologie* 181(4): 253–269.
91. Janke, B. D., Finlay, J. C., Hobbie, S. E., Baker, L. A., Sterner, R. W., Nidzgorski, D., & Wilson, B. N., 2013. Contrasting influences of stormflow and baseflow pathways on nitrogen and phosphorus export from an urban watershed. *Biogeochemistry* 1–20. doi: 10.1007/s10533-013-9926-1
92. Jicha, T. M., Johnson, L. B., Hill, B. H., Regal, R. R., Elonen, C. M., & Pearson, M. S., 2013. Spatial and temporal patterns of nitrification rates in forested floodplain wetland soils of upper Mississippi River Pool 8. *River Research and Applications*. doi: 10.1002/rra.2663.
93. Jones, G. B., 2013. Nutrient Dynamics in Cool-Season Pastures/ Master's Thesis, Virginia Polytechnic Institute and State University.
94. Kaushal, S. S., Likens, G. E., Utz, R. M., Pace, M. L., Grese, M., & Yepsen, M., 2013. Increased river alkalization in the Eastern U.S. *Environmental Science & Technology* 47(18): 10302–10311.
95. Keimowitz, A. R., Parisio, S., Adams, M. S., Interlichia, K., Halton, C., Kroenke, S., & Hubert, A., 2013. Identification of ombrotrophic bogs in the Catskill Mountains, NY by geochemical and isotopic methods. *Wetlands* 33: 355–364.
96. Kim, K. I., Kaiser, D. E., & Lamb, J., 2013. Corn response to starter fertilizer and broadcast sulfur evaluated using strip trials. *Agronomy Journal* 105(2): 401–411.
97. Kobe, R. K., Baribault, T. W. & Holste, E. K., 2013. Tree performance across gradients of soil resource availability. *Forests and Global Change*, Chapter 11:309.
98. Kolker, A., Engle, M. A., Peucker-Ehrenbrink, B., Geboy, N. J., Krabbenhoft, D. P., Bothner, M. H., & Tate, M. T., 2013. Atmospheric mercury and fine particulate matter in coastal New England: Implications for mercury and trace element sources in the northeastern United States. *Atmospheric Environment* 79: 760–768.

99. Kos, G., Ryzhkov, A., Dastoor, A., Narayan, J., Steffen, A., Ariya, P. A., & Zhang, L., 2013. Evaluation of discrepancy between measured and modelled oxidized mercury species. *Atmos. Chem. Phys.* 13: 4839–4863. doi:10.5194/acp-13-4839-2013.
100. Kranabetter, J., Saunders, S., MacKinnon, J., Klassen, H., & Spittlehouse, D., 2013. An assessment of contemporary and historic nitrogen availability in contrasting coastal douglas-fir forests through $\delta^{15}\text{N}$ of tree rings. *Ecosystems*. doi: 10.1007/s10021-012-9598-z.
101. Laacouri, A., 2013. The Distribution and Uptake Dynamics of Mercury in Leaves of Common Deciduous Tree Species in Minnesota, USA. Master's Thesis, University of Minnesota.
102. Lajtha, K., & Jones, J., 2013. Trends in cation, nitrogen, sulfate and hydrogen ion concentrations in precipitation in the United States and Europe from 1978 to 2010: A new look at an old problem. *Biogeochemistry*. doi: 10.1007/s10533-013-9860-2.
103. Lamborg, C. H., Engstrom, D. R., Fitzgerald, W. F., & Balcom, P. H., 2013. Apportioning global and non-global components of mercury deposition through ^{210}Pb indexing. *Science of the Total Environment* 448: 132–140.
104. Lawrence, G. B., J. E. Dukett, N. Houck, P. Snyder, and S. B. Capone. 2013a. Increases in dissolved organic carbon accelerate loss of toxic Al in Adirondack lakes recovering from acidification. *Environmental Science & Technology* 47:7095–7100.
105. Lee, J., 2013. Techniques for submodular maximization. *Discrete geometry and optimization*. Fields Institute Communications 69: 163–177.
106. Lee, M. K., Natter, M., Keevan, J., Guerra, K., Saunders, J., Uddin, A., Munir Humayun, Yang Wang, & Keimowitz, A. R., 2013. Assessing effects of climate change on biogeochemical cycling of trace metals in alluvial and coastal watersheds. *British Journal of Environment & Climate Change* 3(1): 44–66.
107. Lei, H., Wuebbles, D. J., Liang, X. Z., Tao, Z., Olsen, S., Artz, R., ... & Cohen, M., 2013. Projections of atmospheric mercury levels and their effect on air quality in the United States. *Atmospheric Chemistry and Physics Discussions* 13(8): 20165–20194.
108. Lei, H., Liang, X.-Z., Wuebbles, D. J., & Tao, Z., 2013. Model analyses of atmospheric mercury: present air quality and effects of transpacific transport on the United States, *Atmos. Chem. Phys. Discuss.* 13: 9849–9893. doi:10.5194/acpd-13-9849-2013.
109. Lessard, C. R., Poulain, A. J., Ridal, J. J., & Blais, J. M., 2013. Steady-state mass balance model for mercury in the St. Lawrence River near Cornwall, Ontario, Canada. *Environmental Pollution* 174: 229–235.
110. Levengood, J. M., Soucek, D. J., Taylor, C. A., & Gay, D. A., 2013. Mercury in small Illinois fishes: Historical perspectives and current issues. *Environmental monitoring and assessment*. doi: 10.1007/s10661-012-3040-z.
111. Li, X., Bao, H., Gan, Y., Zhou, A., & Liu, Y., 2013. Multiple oxygen and sulfur isotope compositions of secondary atmospheric sulfate in a mega-city in central China. *Atmospheric Environment* 81: 591–599.

112. Linder, G., Brumbaugh, W., Neitlich, P., & Little, E., 2013. Atmospheric deposition and critical loads for nitrogen and metals in arctic Alaska: Review and current status. *Open Journal of Air Pollution* 2 (4): 76-99, doi: 10.4236/ojap.2013.24010.
113. Linker, L. C., Dennis, R., Shenk, G. W., Batiuk, R. A., Grimm, J., & Wang, P., 2013. Computing atmospheric nutrient loads to the Chesapeake Bay watershed and tidal waters. *JAWRA Journal of the American Water Resources Association* 49(5): 1025–1041.
114. Liptzin, D., Daley, M. L., & McDowell, W. H., 2013. A comparison of wet deposition collectors at a coastal rural site. *Water, Air, & Soil Pollution* 224(5): 1–10.
115. Liu, B., Kang, S., Sun, J., Zhang, Y., Xu, R., Wang, Y., ... & Cong, Z., 2013. Wet precipitation chemistry at a high-altitude site (3,326 m asl) in the southeastern Tibetan Plateau. *Environmental Science and Pollution Research*. doi: 10.1007/s11356-012-1379-x.
116. Liu, X. H., & Zhang, Y., 2013. Understanding of the formation mechanisms of ozone and particulate matter at a fine scale over the southeastern U.S.: Process analyses and responses to future-year emissions. *Atmospheric Environment* 74: 259–276.
117. Lloyd, P., 2013. Reassessment of the environmental impacts of sulphur oxide emissions from power stations. *Journal of Energy in Southern Africa* 24(2): 28–36.
118. Lovett, G. M., Arthur, M. A., Weathers, K. C., Fitzhugh, R. D., & Templer, P. H., 2013. Nitrogen addition increases carbon storage in soils, but not in trees, in an eastern U.S. deciduous forest. *Ecosystems* 16: 980–1001. doi: 10.1007/s10021-013-9662-3.
119. Lu, X., Jiang, H., Zhang, X., Liu, J., Zhang, Z., Jin, J., ... & Cheng, M., 2013. Estimated global nitrogen deposition using NO₂ column density. *International Journal of Remote Sensing* 34(24): 8893–8906.
120. Lupo, C. D., & Stone, J. J., 2013. Bulk atmospheric mercury fluxes for the Northern Great Plains, USA. *Water, Air, & Soil Pollution* 224(2): 1–12.
121. Mamun, S., & Villegas, C. O. E., 2013. Nutrient Runoff and TDML in Lower Santa Ana Watershed. Thesis: California State University, Los Angeles, California.
122. Mast, M. A., 2013. Evaluation of stream chemistry trends in U.S. Geological Survey reference watersheds, 1970–2010. *Environmental Monitoring and Assessment*. doi: 10.1007/s10661-013-3256-6.
123. Mast, M. A., & Ely, D., 2013. Effect of power plant emission reductions on a nearby wilderness area: A case study in northwestern Colorado. *Environmental Monitoring and Assessment*. doi: 10.1007/s10661-013-3086-6.
124. Mattieu, C. A., Furl, C. V., Roberts, T. M., & Friese, M., 2013. Spatial trends and factors affecting mercury bioaccumulation in freshwater fishes of Washington State, USA. *Archives of Environmental Contamination and Toxicology*. doi: 10.1007/s00244-013-9882-8.
125. Maxwell, J. A., Holsen, T. M., & Mondal, S., 2013. Gaseous elemental mercury (GEM) emissions from snow surfaces in northern New York. *PLoS ONE* 8(7): e69342. doi:10.1371/journal.pone.0069342.

126. McCrackin, M. L., Harrison, J. A., & Compton, J. E., 2013. A comparison of NEWS and SPARROW models to understand sources of nitrogen delivered to U.S. coastal areas. *Biogeochemistry*. doi: 10.1007/s10533-012-9809-x.
127. McMurray, J. A., Roberts, D. W., Fenn, M. E., Geiser, L. H., & Jovan, S., 2013. Using epiphytic lichens to monitor nitrogen deposition near natural gas drilling operations in the Wind River Range, WY, USA. *Water, Air, & Soil Pollution* 224(3): 1–14.
128. Medalie, L., 2013. Concentration, flux, and the analysis of trends of total and dissolved phosphorus, total nitrogen, and chloride in 18 tributaries to Lake Champlain, Vermont and New York, 1990–2011. U.S. Geological Survey Scientific Investigations Report 2013–5021, 29 p., <http://pubs.usgs.gov/sir/2013/5021/>.
129. Mellor, N. J., Hellerich, J., Drijber, R., Morris, S. J., Stromberger, M. E., & Paul, E. A., 2013. Changes in ecosystem carbon following afforestation of native sand prairie. *Soil Science Society of America Journal* 77(5): 1613–1624. doi:10.2136/sssaj2012.032.
130. Mikhailova, E. A., Goddard, M. A., Post, C. J., Schlautman, M. A., & Galbraith, J. M., 2013. Potential contribution of combined atmospheric Ca^{2+} and Mg^{2+} wet deposition within the continental US to soil inorganic carbon sequestration. *Pedosphere* 23(6): 808–814.
131. Millard, S. P., 2013. Probability, statistics and information. Springer Science+Business Media: New York , NY. ISBN 978-1-4614-8455-4.
132. Mitchell, M. J., Driscoll, C. T., McHale, P. J., Roy, K. M., & Dong, Z., 2013. Lake/watershed sulfur budgets and their response to decreases in atmospheric sulfur deposition: Watershed and climate controls. *Hydrological Processes* 27: 710–720. doi: 10.1002/hyp.9670.
133. Mladenov, N., Williams, M. W., Schmidt, S. K., & Cawley, K., 2012. Atmospheric deposition as a source of carbon and nutrients to barren, alpine soils of the Colorado Rocky Mountains. *Biogeosciences Discussions* 9(3): 2375–2424 (not previously recorded).
134. Murray, G. L., Kimball, K. D., Hill, L. B., Hislop, J. E., & Weathers, K. C., 2013. Long-term trends in cloud and rain chemistry on Mount Washington, New Hampshire. *Water, Air, & Soil Pollution* 224(9): 1–14.
135. Myers, T., Atkinson, R. D., Bullock Jr., O. R., & Bash, J. O., 2013. Investigation of effects of varying model inputs on mercury deposition estimates in the Southwest U.S. *Atmos. Chem. Phys.* 13: 997–1009.
136. Nair, U. S., Wu, Y., Holmes, C. D., Ter Schure, A., Kallos, G., & Walters, J. T., 2013. Cloud-resolving simulations of mercury scavenging and deposition in thunderstorms. *Atmospheric Chemistry & Physics Discussions* 13: 3575–3611.
137. Nakagaki, N., Hitt, K. J., Price, C. V., and Falcone, J. A., 2013. Methods to characterize environmental settings of stream and groundwater sampling sites for national water-quality assessment: U.S. Geological Survey Scientific Investigations Report 2012–5194, 56 p.

138. National Park Service, Air Resources Division. 2013. Air quality in national parks: Trends (2000–2009) and conditions (2005–2009). Natural Resource Report NPS/NRSS/ARD/NRR—2013/683. National Park Service, Denver, Colorado.
139. Nelson, J. A., Stallings, C. D., Landing, W. M., & Chanton, J., 2013. Biomass transfer subsidizes nitrogen to offshore food webs. *Ecosystems*. doi: 10.1007/s10021-013-9672-1.
140. Nelson, S. J., Webster, K. E., Loftin, C. S., & Weathers, K. C., 2013. Shifts in controls on the temporal coherence of throughfall chemical flux in Acadia National Park, Maine, USA. *Biogeochemistry* 116(1-3): 147–160. doi: 10.1007/s10533-013-9884-7.
141. Nippert, J. B., Culbertson, T. S. F., Orozco, G. L., Ocheltree, T. W., & Helliker, B. R., 2013. Identifying the water sources consumed by bison: Implications for large mammalian grazers worldwide. *Ecosphere* 4(2) article 23, <http://dx.doi.org/10.1890/ES12-00359.1>.
142. Nimick, D. A., Caldwell, R. R., Skaar, D. R., & Selch, T. M., 2013. Fate of geothermal mercury from Yellowstone National Park in the Madison and Missouri Rivers, USA. *Science of the Total Environment* 443: 40–54.
143. Olson, J. R., & Hawkins, C. P., 2013. Developing site-specific nutrient criteria from empirical models. *Freshwater Science* 32(3): 719–740.
144. Park, J., Gall, H. E., Niyogi, D., & Rao, P. S. C., 2013. Temporal trajectories of wet deposition across hydro-climatic regimes: Role of urbanization and regulations at U.S. and East Asia sites. *Atmospheric Environment* 70: 280–288.
145. Paulot, F., Jacob, D. J., & Henze, D. K., 2013. Sources and processes contributing to nitrogen deposition: An adjoint model analysis applied to biodiversity hotspots worldwide. *Environmental Science & Technology* 47: 3226–3233.
146. Peckham, S. D., & Gower, S. T., 2013. Simulating the effects of harvest and biofuel production on the forest system carbon balance of the Midwest, USA. *GCB Bioenergy* 5: 431–444. doi:10.1111/gcbb.12033.
147. Perakis, S. S., Sinkhorn, E. R., Catricala, C. E., Bullen, T. D., Fitzpatrick, J., Hynicka, J. D., & Cromack Jr., K., 2013. Forest calcium depletion and biotic retention along a soil nitrogen gradient. *Ecological Applications*, <http://dx.doi.org/10.1890/12-2204.1>.
148. Perrot, D., Perrot, D. O., Molotch, N. P., Williams, M. W., & Anderson, S. P., 2013. Nitrate Export Response to Spatially Distributed Snowmelt in Alpine Catchments. Master's Thesis, University of Colorado.
149. Peters, E. B., Wythers, K. R., Bradford, J. B., & Reich, P. B., 2013. Influence of disturbance on temperate forest productivity. *Ecosystems* 16(1): 95–110.
150. Poor, N. D., Cross, L. M., & Dennis, R. L., 2013. Lessons learned from the Bay Region Atmospheric Chemistry Experiment (BRACE) and implications for nitrogen management of Tampa Bay. *Atmospheric Environment* 70: 75–83.

151. Poor, N. D., Pribble, J. R., & Schwede, D. B., 2013. Application of watershed deposition tool to estimate from CMAQ simulations the atmospheric deposition of nitrogen to Tampa Bay and its watershed. *Journal of the Air & Waste Management Association* 63(1): 100–114.
152. Porter, E., Bowman, W., Clark, C., Compton, J., Pardo, L., & Soong, J. Interactive effects of anthropogenic nitrogen enrichment and climate change on terrestrial and aquatic biodiversity. *Biogeochemistry*. doi: 10.1007/s10533-012-9803-3, 1-28.
153. Povak, N. A., Hessburg, P. F., Reynolds, K. M., Sullivan, T. J., McDonnell, T. C., & Salter, R. B., 2013. Machine learning and hurdle models improve regional predictions of stream water acid neutralizing capacity. *Water Resources Research*. doi: 10.1002/wrcr.20308.
154. Price, J. R., Peresolak, K., Brice, R. L., & Tefend, K. S., 2013. Temporal variability in the chemical weathering of Ca²⁺-bearing phases in the Loch Vale Watershed, Colorado, USA: A mass-balance approach. *Chemical Geology* 342: 151–166.
155. Qian, Q., Parajuli, B., Fu, Q., Yan, K., Gossage, J. L., & Ho, T., 2013. Assessment of Acid Deposition Effects on Water Quality of the Upper Rio Grande River Section in Texas. *Journal of Water Resource & Protection* 5(8): 792–800.
156. Ray, J. D., 2013. Annual data summary 2011: Gaseous pollutant monitoring program. Natural Resource Data Series NPS/NRSS/ARD/NRDS—2013/443. National Park Service, Denver, Colorado.
157. Rao, P., Hutyra, L. R., Raciti, S. M., & Templer, P. H., 2013. Atmospheric nitrogen inputs and losses along an urbanization gradient from Boston to Harvard Forest, MA. *Biogeochemistry*. doi: 10.1007/s10533-013-9861-1.
158. Rice, K. C., & Price, J. R., 2013. Comparison of mineral weathering and biomass macronutrient uptake in two small forested watersheds underlain by Quartzite Bedrock, Catoctin Mountain, Maryland, USA. *Aquatic Geochemistry* 1–18.
159. Riscassi, A. L., & Scanlon, T. M., 2013. Particulate and dissolved mercury export in streamwater within three mid-Appalachian forested watersheds in the US. *Journal of Hydrology* 501: 92–100.
160. Rober, A. R., Wyatt, K. H., Turetsky, M. R., & Stevenson, R. J., 2013. Algal community response to experimental and interannual variation in hydrology in an Alaskan boreal fen. *Freshwater Science* 32(1): 1–11.
161. Robertson, A. J., Henry, D. W., and Langman, J. B., 2013, Geochemical evidence of groundwater flow paths and the fate and transport of constituents of concern in the alluvial aquifer at Fort Wingate Depot Activity, New Mexico, 2009. U.S. Geological Survey Scientific Investigations Report 2013-5098, 89 p., <http://pubs.usgs.gov/sir/2013/5098/>.
162. Robichaud, P. R., Lewis, S. A., Wagenbrenner, J. W., Ashmun, L. E., & Brown, R. E., 2013. Post-fire mulching for runoff and erosion mitigation: Part I: Effectiveness at reducing hillslope erosion rates. *Catena* 105: 75–92.
163. Robison, A. L., Scanlon, T. M., Cosby, B. J., Webb, J. R., & Galloway, J. N., 2013. Roles of sulfate adsorption and base cation supply in controlling the chemical response of streams of western Virginia to reduced acid deposition. *Biogeochemistry* 116(1-3): 119–130.

164. Rojas, A. L. P. Transferencia Al Rio De La Plata De Compuestos Nitrogenados Atmosfericos Procedentes Del Area Metropolitana de Buenos Aires (Transfer to the Rio De La Planta From the Metropolitan Area From Atmospheric Nitrogen Compounds in Buenos Aires). Dissertation, Universidad de Buenos Aires, www.digital.bl.fcen.uba.ar
165. Sandhu, N. K., Axe, L. B., Jahan, K., Ramanujachary, K. V., & Magdaleno, T. F., 2013. Leaching of As, Pb, and Sb from highway marking glass beads. *Journal of Environmental Engineering* 139(9): 1168–1177.
166. Santhi, C., Kannan, N., White, M., Di Luzio, M., Arnold, J. G., Wang, X., & Williams, J. R., 2013. An integrated modeling approach for estimating the water quality benefits of conservation practices at the river basin scale. *Journal of Environmental Quality*. doi:10.2134/jeq2011.0460.
167. Sather, M. E., Mukerjee, S., Smith, L., Mathew, J., Jackson, C., Callison, R., Scrapper, L., Hathcoat, A., Adam, J., Keese, D., Ketcher, P., Brunette, R., Karlstrom, J., & Van der Jagt, G., 2013. Gaseous oxidized mercury dry deposition measurements in the Four Corners area and Eastern Oklahoma, U.S.A. *Atmospheric Pollution Research* 4: 168–180.
168. Scott J. T., and Grantz, E. M., 2013. N₂ fixation exceeds internal nitrogen loading as a phytoplankton nutrient source in perpetually nitrogen-limited reservoirs. *Freshwater Science* 32 (3): 849–861.
169. Seo, Y. S., Han, Y. J., Choi, H. D., Holsen, T. M., & Yi, S. M., 2012. Characteristics of total mercury (TM) wet deposition: Scavenging of atmospheric mercury species. *Atmospheric Environment* 49: 69–76 (not previously reported).
170. Sickles II, J. E., & Shadwick, D. S., 2012. “Transference Ratios” to predict total oxidized sulfur and nitrogen deposition—Part I, monitoring results. *Atmospheric Environment* 77 (October): 1060–1069.
171. Sickles II, J. E., Shadwick, D. S., Kilaru, J. V., & Appel, K. W., 2013. “Transference Ratios” to predict total oxidized sulfur and nitrogen deposition—Part II, modeling results. *Atmospheric Environment* 77: 1070–1082.
172. Sheu, G.-R., & Lin, N.-H., Characterizations of wet mercury deposition to a remote islet (Pengjiayu) in the subtropical Northwest Pacific Ocean. *Atmospheric Environment* 77: 474–481. doi: 10.1016/j.atmosenv.2013.05.038.
173. Shim, J. H., Powers, H. H., Meyer, C. W., & Dawson, T. E., 2013. Hydrologic control of the oxygen isotope ratio of ecosystem respiration in a semi-arid woodland. *Biogeosciences Discussions* 10(108): 1–48.
174. Skrzypek, G., Paul, D., & Wojtuń, B., 2013. The altitudinal climatic effect on the stable isotope compositions of Agave and Opuntia in arid environments—A case study at the Big Bend National Park, Texas, USA. *Journal of Arid Environments* 92: 102–112.
175. Smart, A. J., Scott, T. K., Clay, S. A., Clay, D. E., Ohrtman, M., & Mousel, E. M., 2013. Spring Clipping, Fire, and Simulated Increased Atmospheric Nitrogen Deposition Effects on Tallgrass Prairie Vegetation. *Rangeland Ecology and Management* 66(6): 680–687.

176. Smith, K. P., 2013. Water-quality conditions, and constituent loads and yields in the Cambridge drinking-water source area, Massachusetts, water years 2005–07. U.S. Geological Survey Scientific Investigations Report 2013-5039, 73 p., <http://pubs.usgs.gov/sir/2013/5039/>.
177. Smith, C. M., David, M. B., Mitchell, C. A., Masters, M. D., Anderson-Teixeira, K. J., Bernacchi, C. J., & DeLucia, E. H., 2013. Reduced nitrogen losses after conversion of row crop agriculture to perennial biofuel crops. *Journal of Environmental Quality* 42(1): 219–228.
178. Sorooshian, A., Shingler, T., Harpold, A., Feagles, C. W., Meixner, T., & Brooks, P. D., 2013. Aerosol and precipitation chemistry in the southwestern United States: Spatiotemporal trends and interrelationships. *Atmospheric Chemistry and Physics Discussions* 13(4): 8615–8662.
179. Sprague, L. A., and Gronberg, J. M., 2013. Estimated anthropogenic nitrogen and phosphorus inputs to the land surface of the conterminous United States—1992, 1997, and 2002: U.S. Geological Survey Scientific Investigations Report 2012-5241, 14 p.
180. Sullivan, P. L., Price, R. M., Miralles-Wilhelm, F., Ross, M. S., Scinto, L. J., Dreschel, T. W., et al., 2013. The role of recharge and evapotranspiration as hydraulic drivers of ion concentrations in shallow groundwater on everglades tree islands, Florida (USA). *Hydrological Processes*. doi: 10.1002/hyp.9575.
181. Sullivan, P. L., Engel, V., Ross, M. S., & Price, R. M., 2013. The influence of vegetation on the hydrodynamics and geomorphology of a tree island in Everglades National Park (Florida, USA). *Ecohydrology*. doi: 10.1002/eco.1394.
182. Sullivan, T. J., Lawrence, G. B., Bailey, S. W., McDonnell, T. C., Beier, C. M., Weathers, K. C., ... & Bishop, D. A., 2013. Effects of acidic deposition and soil acidification on sugar maple trees in the Adirondack Mountains, New York. *Environmental Science & Technology* 47(22): 12687–12694.
183. Tang, R. W., Johnston, T. A., Gunn, J. M., & Bhavsar, S. P., 2013. Temporal changes in mercury concentrations of large-bodied fishes in the boreal shield ecoregion of northern Ontario, Canada. *Science of the Total Environment* 444: 409–416.
184. Thomas, R. B., Spal, S. E., Smith, K. R., & Nippert, J. B., 2013. Evidence of recovery of *Juniperus virginiana* trees from sulfur pollution after the Clean Air Act. *Proceedings of the National Academy of Sciences* 110(38): 15319–15324.
185. Timm, B. C., & McGarigal, K., 2013. A preliminary assessment of the ground-dwelling arthropod community composition in six common dune cover types at Cape Cod National Seashore. *Northeastern Naturalist* 20(3): 529–539.
186. Torres, A., Bond, T. C., Lehmann, C. M., Subramanian, R., & Hadley, O. L., 2013. Measuring organic carbon and black carbon in rainwater: Evaluation of methods. *Aerosol Science and Technology*. doi: 10.1080/02786826.2013.868596.
187. Tremaine, D. M., & Froelich, P. N., 2013. Speleothem trace element signatures: A hydrologic geochemical study of modern cave dripwaters and farmed calcite. *Geochimica et Cosmochimica Acta* 121: 522–545.

188. United States Environmental Protection Agency, 2013. Progress Report 2011 Clean Air Interstate Rule, Acid Rain Program, and Former NOx Budget Trading Program.
http://www.epa.gov/airmarkets/progress/ARPCAIR11_downloads/ARPCAIR11_environmental_health.pdf.
189. Vidon, P. G., Mitchell, C. P., Jacinthe, P. A., Baker, M. E., Liu, X., & Fisher, K. R., 2013. Mercury dynamics in groundwater across three distinct riparian zone types of the US Midwest. *Environmental Science: Processes & Impacts* 15(11): 2131–2141.
190. Wang, Y., Huang, J., Hopke, P. K., Rattigan, O. V., Chalupa, D. C., Utell, M. J., & Holsen, T. M., 2013. Effect of the shutdown of a large coal-fired power plant on ambient mercury species. *Chemosphere* 92: 360–367.
191. Wang, S., Holsen, T. M., Huang, J., & Han, Y. J., 2013. Evaluation of various methods to measure particulate bound mercury and associated artifacts. *Atmospheric Chemistry and Physics Discussions* 13(4): 8585–8614.
192. Wang, F., Mladenoff, D. J., Forrester, J. A., Keough, C., & Parton, W. J., 2013. Global sensitivity analysis of a modified CENTURY model for simulating impacts of harvesting fine woody biomass for bioenergy. *Ecological Modelling* 259: 16–23.
193. Wang, X., Wu, Z., Shao, M., Fang, Y., Zhang, L., Chen, F., ... & Bao, R., 2013. Atmospheric nitrogen deposition to forest and estuary environments in the Pearl River Delta region, southern China. *Tellus B*, 65:, 20480, <http://dx.doi.org/10.3402/tellusb.v65i0.20480>
194. Weigelt, A., Temme, C., Bieber, E., Schwerin, A., Schuetze, M., Ebinghaus, R., & Kock, H. H., 2013. Measurements of atmospheric mercury species at a German rural background site from 2009 to 2011 – methods and results *Environ. Chem.* 10: 102–110. <http://dx.doi.org/10.1071/EN12107>
195. Weigold, M. and Pillsbury, E., 2013. Long Island Sound: A socioeconomic perspective, Chapter 1 in Latimer, J. S., Tedesco, M. A., Swanson, R. L., Yarish, C., Stacey, P. E., & Garza, C. *Long Island Sound*. Springer Inc.: New York NY, ISBN 978-1-4614-6125-8, doi: 10.1007/978-1-4614-6126-5.
196. Willey, J. D., Mullaugh, K. M., Kieber, R. J., Avery, G. B., & Mead, R. N., 2013. Controls on the redox potential of rainwater. *Environmental Science & Technology*. dx.doi.org/10.1021/es302569.
197. Wollheim, W. M., Green, M. B., Pellerin, B. A., Morse, N. B., & Hopkinson, C. S., 2013. Causes and consequences of ecosystem service regionalization in a coastal suburban watershed. *Estuaries and Coasts*. doi: 201310.1007/s12237-013-9646-8.
198. Yelenik, S., Perakis, S., & Hibbs, D., 2013. Regional constraints to biological nitrogen fixation in post-fire forest communities. *Ecology* 94(3): 739–750.
199. Yu, X., Driscoll, C. T., Huang, J., Holsen, T. M., & Blackwell, B. D., 2013. Modeling and Mapping of Atmospheric Mercury Deposition in Adirondack Park, New York. *PloS one* 8(3): 59322.
200. Zhang, Y., & Jaeglé, L., 2013. Decreases in mercury wet deposition over the United States during 2004–2010: Roles of domestic and global background emission reductions. *Atmosphere* 4(2): 113–131.

201. Zhang, Y., Xiu, G., Wu, X., Moore, C. W., Wang, J., Cai, J., ... & Zhang, R., 2013. Characterization of mercury concentrations in snow and potential sources, Shanghai, China. *Science of the Total Environment* 449: 434–442.
202. Zhang, Y., 2013. Biogeochemical Cycling of Mercury in the Atmosphere-ocean-land System: Global and Regional Modeling. Master's Thesis, University of Washington.
203. Zhang, Y., Olsen, K. M., & Wang, K., 2013. Fine scale modeling of agricultural air quality over the southeastern United States using two air quality models. Part I. Application and Evaluation. *Aerosol and Air Quality Research* 13(4): 1231–1252.
204. Zhang, Y., & Wu, S. Y., 2013. Fine scale modeling of agricultural air quality over the southeastern United States using two air quality models. Part II. Sensitivity studies and policy implications. *Aerosol and Air Quality Research* 13(5): 1475–1491.
205. Zhou, J., Feng, X., Liu, H., Zhang, H., Fu, X., Bao, Z., ... & Zhang, Y. , 2013. Examination of total mercury inputs by precipitation and litterfall in a remote upland forest of Southwestern China. *Atmospheric Environment* 81: 364–372.
206. Zhao, S., Liu, S., Sohl, T., Young, C., & Werner, J., 2013. Land use and carbon dynamics in the southeastern United States from 1992 to 2050. *Environmental Research Letters*, 8(4), 044022.
207. Zhu, L., Henze, D. K., Cady-Pereira, K. E., Shephard, M. W., Luo, M., Pinder, R. W., ... & Jeong, G. R., 2013. Constraining U.S. ammonia emissions using TES remote sensing observations and the GEOS-Chem adjoint model. *Journal of Geophysical Research: Atmospheres*. 118: 3355–3368. doi:10.1002/jgrd.50166, 2013.
208. Zhu, J., Wang, T., Talbot, R., Mao, H., Yang, X., Fu, C., ... & Xie, M., 2013. Characteristics of atmospheric mercury deposition and size-fractionated particulate mercury in urban Nanjing, China. *Atmospheric Chemistry and Physics Discussions* 13(11): 28309–28341.