

2010 NADP-Referenced Publications

1. Adams, M.B., Loughry, L., and Plaughner, L. (cpl.) 2010. Experimental Forests and Ranges of the USDA Forest Service. USDA Forest Service Publication, <http://hdl.handle.net/1957/17290>.
2. Allen, D.J. and Brent, G.F. 2010. Sequestering CO₂ by mineral carbonation: Stability against acid rain exposure. *Environmental Science & Technology* 44(7): 2735–2739.
3. Ashton, I.W., Miller, A.E., Bowman, W.D., and Suding, K.N. 2010. Niche complementarity due to plasticity in resource use: Plant partitioning of chemical N forms. *Ecology* 91: 3252–3260, doi:10.1890/09-1849.1.
4. Bash, J.O. 2010. Description and initial simulation of a dynamic bidirectional air-surface exchange model for mercury in Community Multiscale Air Quality (CMAQ) model. *Journal of Geophysical Research* 115: D06305, doi:10.1029/2009JD012834.
5. Batson, J.A. 2010. Denitrification and a nitrogen budget of created riparian wetlands. Master's thesis in partial fulfillment for the Degree Master of Science, Ohio State University.
6. Beavers, B.W., Liu, Z., Cox, M.S., Kingery, W.L., Brink, G.E., Gerard, P.D., and McGregor, K.C. 2010. Phosphorus dynamics in two poultry-litter amended soils of Mississippi under three management systems. *Pedosphere* 20(2): 217–228.
7. Beem, K.B., Raja, S., Schwandner, F.M., Taylor, C., Lee, T., Sullivan, A.P., Carrico, C.M., McMeeking, G.R., Day, D., Levin, E., Hand, J., Kreidenweis, S.M., Schichtel, B., Malm, W.C., and Collett, J.L., Jr. 2010. Deposition of reactive nitrogen during the Rocky Mountain Airborne Nitrogen and Sulfur (RoMANS) study. *Environmental Pollution* 158(3): 862–872, doi: 10.1016/j.envpol.2009.09.023.
8. Beltran, B.J., Amatya, D.M., Youssef, M., Jones, M., Callahan, T.J., Skaggs, R.W., and Nettles, J.E. 2010. Impacts of fertilization on water quality of a drained pine plantation: A worst case scenario. *Journal of Environmental Quality* 39: 293–303.
9. Bohl, N.L., Baxter, C.A., Adraski, T.W., Good, L.W., and Bundy, L.G. 2010. Source water effects on runoff amount and phosphorus concentration under simulated rainfall. *Soil Science Society of America Journal* 74: 612–618.
10. Burkle, L.A. and Irwin, R.E. 2010. Beyond biomass: Measuring the effects of community-level nitrogen enrichment on floral traits, pollinator visitation and plant reproduction. *Journal of Ecology* 98: 705–717, doi: 10.1111/j.1365-2745.2010.01648.x.
11. Caffrey, J.M., Landing, W.M., Nolek, S.D., Gosnell, K., Bagui, S.S., and Badui, S.C. 2010. Atmospheric deposition of mercury and major ions to the Pensacola Bay (Florida)

watershed: Spatial, seasonal, and inter-annual variability. *Atmospheric Chemistry and Physics Discussion* 10: 4593–4616, www.atmos-chem-phys-discuss.net/10/4593/2010/.

12. Cai, M., Schwartz, J., Robinson, R., Moore, S., and Kulp, M. 2010. Long-term effects of acidic deposition on water quality in a high-elevation Great Smoky Mountains National Park watershed: Use of an ion input–output budget. *Water, Air & Soil Pollution* 209(1): 143–156, doi: 10.1007/s11270-009-0187-5.
13. Chang, Y.-M., Hsu, N.-J., and Huang, H.-C. 2010. Semi parametric estimation and selection for nonstationary spatial covariance functions. *Journal of Computational and Graphical Statistics* 19(1): 117–139, doi:10.1198/jcgs.2010.07157.
14. Civerolo, K., Hogrefe, C., Zalewsky, E., Hao, W., Sistla, G., Lynn, B., Rosenzweig, C., and Kinney, P.L. 2010. Evaluation of an 18-year CMAQ simulation: Seasonal variations and long-term temporal changes in sulfate and nitrate. *Atmospheric Environment* 44(31): 3745–3752, doi: 10.1016/j.atmosenv.2010.06.056.
15. Clow, D.W. and Mast, M.A. 2010. Mechanisms for chemostatic behavior in catchments: Implications for CO₂ consumption by mineral weathering. *Chemical Geology* 269: 40–51.
16. Clow, D.W., Nanus, L., and Huggett, B. 2010. Use of regression-based models to map sensitivity of aquatic resources to atmospheric deposition in Yosemite National Park, USA. *Water Resources Research* 46: W09529, doi:10.1029/2009WR008316.
17. Coconino County. 2010. Lake Mary Regional TMDL For Mercury in Fish Tissue: Upper Lake Mary, Lower Lake Mary, Soldiers Lake, Soldiers Annex Lake, and Lower Long Lake Little Colorado River Watershed., State of Arizona, Department of Environmental Quality, Open File Report #OFR 10-02, http://www.azdeq.gov/enviro/water/assessment/download/Lake_Mary_Region_Draft-6-16-2010.pdf.
18. Converse, A.D., Riscassi, A.L., and Scanlon, T.M. 2010. Seasonal variability in gaseous mercury fluxes measured in a high-elevation meadow. *Atmospheric Environment* 44(18): 2176–2185, doi 10.1016/j.atmosenv.2010.03.024.
19. Corvo, F., Reyes, J., Valdes, C., Villasenor, F., Cuesta, O., Aguilar, D., and Quintana, P. 2010. Influence of air pollution and humidity on limestone materials degradation in historical buildings located in cities under tropical coastal climates. *Water, Air & Soil Pollution* 205: 359–375, doi 10.1007/s11270-009-0081-1.
20. Croft, B., Lohmann, U., Martin, R.V., Stier, P., Wurzler, S., Feichter, J., Hoose, C., Heikkil, U., van Donkelaar, A., and Ferrachat, S. 2010. Influences of in-cloud aerosol scavenging parameterizations on aerosol concentrations and wet deposition in ECHAM5-HAM. *Atmospheric Chemistry and Physics* 10: 1511–1543.

21. Cusack, D.F., Torn, M.S., McDowell, W.H., and Silver, W.L. 2010. The response of heterotrophic activity and carbon cycling to nitrogen additions and warming in two tropical soils. *Global Change Biology* 16: 2555–2572, doi: 10.1111/j.1365-2486.2009.02131.x.
22. Daley, M., Potter, J., Difranco, E., and McDowell, W.H. 2010. Nitrogen Assessment for the Lamprey River Watershed, New Hampshire Water Resources Research Center (NH WRRRC), Department of Natural Resources, The State of New Hampshire, http://des.nh.gov/organization/divisions/water/wmb/coastal/documents/unh_nitrogenassessment.pdf.
23. David, M.B., Drinkwater, L.E., and McIsaac, G.F. 2010. Sources of nitrate yields in the Mississippi River Basin. *Journal of Environmental Quality* 39: 1657–1667, doi:10.2134/jeq2010.0115.
24. Dayyania, S., Prasher, S.O., Madanic, A., and Madramootoo, C.A. 2010. Development of DRAIN-WARMF model to simulate flow and nitrogen transport in a tile-drained agricultural watershed in Eastern Canada. *Agricultural Water Management* 98: 55–68.
25. Dennis, R.L., Mathur, R., Pleim, J.E., and Walker, J.T. 2010. Fate of ammonia emissions at the local to regional scale as simulated by the Community Multiscale Air Quality model. *Atmospheric Pollution Research* 1: 207–214.
26. Di Vittorio, A.V., Anderson, R.S., White, J.D., Miller, N.L., and Running, S.W. 2010. Development and optimization of an Agro-BGC ecosystem model for C_4 perennial grasses. *Ecological Modeling* 221(17): 2038–2053, doi:10.1016/j.ecolmodel.2010.05.013.
27. Drevnick, P.E., Shinneman, A.L.C., Lamborg, C.H., Engstrom, D.R., Bothner, M.H., and Oris, J.T. 2010. Mercury flux to sediments of Lake Tahoe, California–Nevada. *Water, Air, and Soil Pollution* 210(1-4): 399–407, doi 10.1007/s11270-009-0262-y.
28. Engle, M.A., Tate, M.T., Krabbenhoft, D.P., Schauer, J.J., Kolker, A., Shanley, J.B., and Bothner, M.H. 2010. Comparison of atmospheric mercury speciation and deposition at nine sites across central and eastern North America. *Journal of Geophysical Research* 115: D18306, doi: 10.1029/2010JD014064.
29. Ewing, H.A., Groffman, P.M., and Frank, D.A. 2010. Grazers and soil moisture determine the fate of added $^{15}\text{NH}_4^+$ in Yellowstone grasslands. *Plant Soil* 328: 337–351, doi: 10.1007/s11104-009-0113-z.
30. Fang, Y., Fiore, A.M., Horowitz, L.W., Levy, H., Hu, Y., and Russell, A.G. 2010. Sensitivity of the NO_y budget over the United States to anthropogenic and lightning NO_x in summer. *Journal of Geophysical Research* 115: D18312, doi:10.1029/2010JD014079.
31. Fenn, M.E., Allen, E.B., Weiss, S.B., Jovan, S., Geiser, L.H., Tonnesen, G.S., Johnson, R.F., Rao, L.E., Gimeno, B.S., Yuan, F., Meixner, T., and Bytnerowicz, A. 2010. Nitrogen

critical loads and management alternatives for N-impacted ecosystems in California. *Journal of Environmental Management* 91: 2404–2423.

32. Filippa, G., Freppaz, M., Williams, M.W., and Zanini, E. 2010. Major element chemistry in inner alpine snowpacks (Aosta Valley Region, NW Italy). *Cold Regions Science and Technology* 64(2): 158–166, doi:10.1016/j.coldregions.2010.07.005.
33. Florida, State of. 2010. Site-Specific Information in Support of Establishing Numeric Nutrient Criteria for Choctawhatchee Bay. Florida Department of Environmental Protection, Tallahassee, FL 32399.
34. Florida, State of. 2010. Site-Specific Information in Support of Establishing Numeric Nutrient Criteria in Ochlockonee Bay. Division of Environmental Assessment and Restoration, Florida Department of Environmental Protection, Tallahassee, FL 32399.
35. Florida, State of. 2010. Site-Specific Information in Support of Establishing Numeric Nutrient Criteria for the Springs Coast, Florida. Department of Environmental Protection, Tallahassee, FL 32399, http://www.dep.state.fl.us/water/wqssp/nutrients/docs/estuarine/pinellaspark/springs_coast_082010.pdf.
36. Florida, State of. 2010. Site-Specific Information in Support of Establishing Numeric Nutrient Criteria for St. Joseph Bay. Division of Environmental Assessment and Restoration, Florida Department of Environmental Protection, Tallahassee, FL 32399, http://www.dep.state.fl.us/water/wqssp/nutrients/docs/estuarine/tallahassee/st_joe_bay_081310.pdf.
37. Follstad Shaw, J.J., Harner, M.J., and Tibbets, T.M. 2010. *Elaeagnus angustifolia* elevates soil inorganic nitrogen pools in riparian ecosystems. *Ecosystems* 13: 46–61, doi: 10.1007/s10021-009-9299-4.
38. Fu, X., Feng, X., Zhu, W., Rothenberg, S., Yao, H., and Zhang, H. 2010. Elevated atmospheric deposition and dynamics of mercury in a remote upland forest of southwestern China. *Environmental Pollution* 158(6): 2324–2333, doi: 10.1016/j.envpol.2010.01.032.
39. Gaddis, E. and Voinov, A. 2010. Spatially explicit modeling of land use specific phosphorus transport pathways to improve TMDL load estimates and implementation planning. *Water Resources Management* 24: 1621–1644, doi: 10.1007/s11269-009-9517-z.
40. Gahl, M.K. and Calhoun, A.J.K. 2010. The role of multiple stressors in ranavirus-caused amphibian mortalities in Acadia National Park wetlands. *Canadian Journal of Zoology* 88: 108–121.
41. Garvey, J., Ickes, B., and Zigler, S. 2010. Challenges in merging fisheries research and management: The Upper Mississippi River experience. *Hydrobiologia* 640: 125–144, doi: 10.1007/s10750-009-0061-x.

42. Geiser, L.H., Jovan, S.E., Glavich, D.A., and Porter, M.K. 2010. Lichen-based critical loads for atmospheric nitrogen deposition in Western Oregon and Washington Forests, USA. *Environmental Pollution* 158(7): 2412–2421, doi: 10.1016/j.envpol.2010.04.001.
43. Gil, I.S., White, M., Melendez, E., and Vanderbilt, K. 2010. Case studies of ecological integrative information systems: The Luquillo and Sevilleta Information Management Systems. *Communications in Computer and Information Science* 108: 18–35, doi: 10.1007/978-3-642-16552-8_3.
44. Gilbert, D., Wieckowicz, R., Kang, W.-J., Wilcox, E.G., and Ralys, B. 2010. TMDLs for Munson Slough WBID 807D (Dissolved Oxygen), Lake Munson WBID 807C [Dissolved Oxygen, Nutrients (Trophic State Index), and Turbidity] and Munson Slough Below Lake Munson WBID 807 (Dissolved Oxygen and Un-ionized ammonia). Florida Department of Environmental Protection, 136 pp.
45. Godsey, S.E., Aas, W., Clair, T.A., deWit, H.A., Fernandez, I.J., Kahl, J.S., Malcolm, I.A., Neal, C., Neal, M., Nelson, S.J., Norton, S.A., Palucias, M.C., Skjelkvale, B.L., Soulsby, C., Tetzlaff, D., and Kirchner, J.W. 2010. Generality of fractal 1/f scaling in catchment tracer time series, and its implications for catchment travel time distributions. *Hydrologic Processes* 24: 1660–1671.
46. Goel, A., McConnell, L.L., Torrents, A., Kuang, Z., Hapeman, C.J., Merritt, D.W., Alexander, S.T., Scudlark, J.R., and Scarborough, R. 2010. Environmental factors affecting the levels of legacy pesticides in the airshed of Delaware and Chesapeake Bays, USA. *Environmental Toxicology and Chemistry* 29: 1893–1906, doi: 10.1002/etc.243.
47. Goodman, K.J. 2010. The effect of in-line lakes on dissolved organic matter dynamics in mountain streams. All Graduate Theses and Dissertations, Paper 702, <http://digitalcommons.usu.edu/etd/702>.
48. Goodman, K. J., Baker, M.A., and Wurtsbaugh, W.A. 2010. Mountain lakes increase organic matter decomposition rates in streams. *Journal of the North American Benthological Society* 29(2): 521–529, doi: 10.1899/09-070.1.
49. Gratz, L.E. 2010. Identification of atmospheric mercury sources and transport pathways on local and regional scales. A dissertation submitted in partial fulfillment of the requirements for the degree of Doctor of Philosophy, University of Michigan.
50. Greenquist, M.A., Schwarz, A.K., Klopfenstein, T.J., Schacht, W.H., Erickson, G.E., Vander Pol, K.J., Luebke, M.K., Brink, K.R., and Baleseng, L.B. 2010. Effects of nitrogen fertilization and dried distillers grains supplementation: Nitrogen use efficiency. *Journal of Animal Science*, online publication, doi:10.2527/jas.2010-2902.
51. Grenon, J., Svalberg, T., Porwoll, T., and Story, M. 2010. Lake and Bulk Sampling Chemistry, NADP, and IMPROVE Air Quality Data Analysis on the Bridger-Teton National Forest (USFS Region 4). Gen. Tech. Rep. RMRS-GTR-248WWW. Fort Collins, CO:

U.S. Department of Agriculture, Forest Service, Rocky Mountain Research Station, 44 pp.

52. Gustin, M. and Jaffe, D. 2010. Reducing the uncertainty in measurement and understanding of mercury in the atmosphere. *Environmental Science & Technology* 44(7): 2222–2227.
53. Hill, B.H., Elonen, C.M., Jicha, T.M., Bolgrien, D.W., and Moffett, M.F. 2010. Sediment microbial enzyme activity as an indicator of nutrient limitation in the great rivers of the Upper Mississippi River basin. *Biogeochemistry* 97(2-3): 195–209, doi: 10.1007/s10533-009-9366-0.
54. Hill, J. Jaron, Chumchal, M.M., Drenner, R.W., Pinder, J.E., and Drenner, S.M. 2010. Use of preserved museum fish to evaluate historical and current mercury contamination in fish from two rivers in Oklahoma, USA. *Environmental Monitoring and Assessment* 161(1-4): 509–516, doi: 10.1007/s10661-009-0764-5.
55. Hirmas, D.R., Amrhein, C., and Graham, R.C. 2010. Spatial and process-based modeling of soil inorganic carbon storage in an arid piedmont. *Geoderma* 154: 486–494, doi: 10.1016/j.geoderma.2009.05.005.
56. Huijnen, V., Williams, J.E., van Weele, M., van Noije, T.P.C., Krol, M.C., Dentener, F., Segers, A., Houweling, S., Peters, W., de Laat, A.T.J., Boersma, K.F., Bergamaschi, P., van Velthoven, P.F.J., Le Sager, P., Eskes, H.J., Alkemade, F., Scheele, M.P., N'ed'elec, P., and P'atz, H.-W. 2010. The global chemistry transport model TM5: Description and evaluation of the tropospheric chemistry version 3.0. *Geosciences Model Development Discussion* 3: 1009–1087, www.geosci-model-dev-discuss.net/3/1009/2010/, doi:10.5194/gmdd-3-1009-2010.
57. International Maritime Organization Marine Environment Protection Committee. 2010. Designation of an Emission Control Area for Nitrogen Oxides, Sulphur Oxides and Particulate Matter. Interpretations of and Amendments to MARPOL and Related Instruments (61st Session, Agenda Item 7, (MEPC 61/INF.9, 25 June, 2010), 57 pp.
58. Jardine, T.D. and Bunn, S.E. 2010. Northern Australia, whither the mercury? *Marine and Freshwater Research* 61(4): 451–463, doi:10.1071/MF09126.
59. Jin, L., Siegel, D.I., Lautz, L.K., Mitchell, M.J., Dahms, D.E., and Mayer, B. 2010. Calcite precipitation driven by the common ion effect during groundwater–surface-water mixing: A potentially common process in streams with geologic settings containing gypsum. *Geological Society of America Bulletin* 122(7-8): 1027–1038, doi: 10.1130/B30011.1.
60. Jonson, J.E., Travnikov, O. (eds.) 2010. Joint MSC-W/MSC-E Report EMEP/MSC-W Technical Report 1/2010: Development of the EMEP global modeling framework: Progress report. http://emep.int/publ/reports/2010/emep_technical_1_2010.pdf.

61. Kelly, C.N. 2010. Carbon and nitrogen cycling in watersheds of contrasting vegetation types in the Fernow Experimental Forest, West Virginia. Dissertation submitted for partial fulfillment of the Doctor of Philosophy degree, Virginia Polytechnic Institute and State University.
62. Kendall, C., Young, M.B., and Silva, S.R. 2010. Applications of stable isotopes for regional to national-scale water quality and environmental monitoring programs. Chapter 5 in *Isoscapes: Understanding movement, pattern, and process on earth through isotope mapping*, J.B. West et al. (eds.), doi 10.1007/978-90-481-3354-3_5.
63. King County. 2010. Initial Assessment of Nutrient Loading to Quartermaster Harbor. Prepared by Curtis DeGasperi, Water and Land Resources Division, Seattle Washington.
64. Kolka, R.K., Giardina, C.P., McClure, J.D., Mayer, A., and Jurgensen, M.F. 2010. Partitioning hydrologic contributions to an 'old-growth' riparian area in the Huron Mountains of Michigan, USA. *Ecohydrology* 3: 315–324, doi: 10.1002/eco.112.
65. Kolker, A., Olson, M.L., Krabbenhoft, D.P., Tate, M.T., and Engle, M.A. 2010. Patterns of mercury dispersion from local and regional emission sources, rural Central Wisconsin, USA. *Atmospheric Chemistry & Physics Discussion* 10: 1823–1846, www.atmos-chem-phys-discuss.net/10/1823/2010/.
66. Krzyzanowski, J. 2010. Review and Identification of Research Needs to Address Key Issues Related to Reactive Nitrogen (RN) Deposition and Eutrophication in a Canadian Context (Final Report). Prepared for: Acid Rain Task Group, Canadian Council of Ministers of the Environment, PN 1450.
67. Lambert, W.J. and Aharon, P. 2010. Oxygen and hydrogen isotopes of rainfall and dripwater at DeSoto Caverns (Alabama, USA): Key to understanding past variability of moisture transport from the Gulf of Mexico. *Geochimica et Cosmochimica Acta* 74: 846–861, doi:10.1016/j.gca.2009.10.043.
68. Landing, W.M., Caffrey, J.M., Nolek, S.D., Gosnell, K.J., and Parker, W.C. 2010. Atmospheric wet deposition of mercury and other trace elements in Pensacola, Florida. *Atmospheric Chemistry and Physics* 10: 4867–4877, doi: 10.5194/acp-10-4867-2010.
69. Laudon, H. and Norton, S.A. 2010. Drivers and evolution of episodic acidification at the Bear Brook Watershed in Maine, USA. *Environmental Monitoring and Assessment*, published online, doi: 10.1007/s10661-010-1526-0.
70. Li, H., Sivapalan, M., Tian, F., and Liu, D. 2010. Water and nutrient balances in a large tile-drained agricultural catchment: A distributed modeling study. *Hydrological Earth Systems Science Discussion* 7: 3931–3976, www.hydrol-earth-syst-sci-discuss.net/7/3931/2010/, doi:10.5194/hessd-7-3931-2010.

71. Liu, X.-H., Zhang, Y., Olsen, K.M., Wang, W.-X., Do, A.B., and Bridgers, G.M. 2010. Responses of future air quality to emission controls over North Carolina, Part I: Model evaluation for current-year simulations. *Atmospheric Environment* 44(10): 2443–2456, doi:10.1016/j.atmosenv.2010.04.002.
72. Lloyd, P.J. 2010. Changes in the wet precipitation of sodium and chloride over the continental United States, 1984–2006. *Atmospheric Environment* 44(26): 3196–3206, doi: 10.1016/j.atmosenv.2010.05.016.
73. Luysaert, S., Ciais, P., Piao, S.L., Schulze, E.D., Jung, M., Zaehle, S., Schelhaas, M.J., Reichstein, M., Churkin, G., Papale, D., Abril, G., Beer, C., Grace, J., Lous Tau, D., Matteucci, G., Magnani, F., Nabuurs, G.J., Verbeeck, H., Sulkava, M., van der Werf, G.R., Janssens, I.A., and members of the CarboEurope-IP Synthesis Team, 2010. The European carbon balance. Part 3: forests. *Global Change Biology* 16: 1429–1450, doi: 10.1111/j.1365-2486.2009.02056.x.
74. Lyman, S.N., Gustin, M.S., and Prestbo, E.M. 2010. A passive sampler for ambient gaseous oxidized mercury concentrations. *Atmospheric Environment* 44: 246–252.
75. Maryland, State of. 2010. Total Maximum Daily Load of Mercury for Watersheds Draining to Millington Wildlife Management Area Ponds. Maryland, Department of Environment, Baltimore, MD 21230, http://www.mde.state.md.us/assets/document/Millington_WMA_Hg_081910_PCdraft.pdf.
76. Maryland, State of. 2010. Watershed Report for Biological Impairment of the Deep Creek Lake Watershed in Garrett County, Maryland: Biological Stressor Identification Analysis Results and Interpretation. Department of the Environment, July 2010, 28pp.
77. Mast, A.M., Manthorne, D.J., and Roth, D.A. 2010. Historical deposition of mercury and selected trace elements to high-elevation National Parks in the Western U.S. inferred from lake-sediment cores. *Atmospheric Environment* 44: 2577–2586.
78. McLauchlan, K.K., Ferguson, C.J., Wilson, I.E., Ocheltree, T.W., and Craine, J.M. 2010. Thirteen decades of foliar isotopes indicate declining nitrogen availability in central North American grasslands. *New Phytologist Special Issue* 187(4): 1135–1145, doi: 10.1111/j.1469-8137.2010.03322.x.
79. McMahon, S.M., Parker, G.G., and Miller, D.R. 2010. Evidence for a recent increase in forest growth. *Proceedings of the National Academy of Sciences* 107(8): 3611–3615, www.pnas.org/cgi/doi/10.1073/pnas.0912376107.
80. Moravec, B.G., Keller, C.K., Smith, J.L., Allen-King, R.M., Goodwin, A.J., Fairley, J.P., and Larson, P.B. 2010. Oxygen-18 dynamics in precipitation and streamflow in a semi-arid agricultural watershed, Eastern Washington, USA. *Hydrologic Processes* 24: 446–460.

81. Naik, A. 2010. Trace metal fluxes in southwest Ohio watersheds. A thesis submitted for the degree of Master of Science, Wright State University.
82. National Park Service, Air Resources Division. 2010. Air Quality in National Parks: 2009 Annual Performance and Progress Report. Natural Resource Report NPS/NRPC/ARD/NRR—2010/266. National Park Service, Denver, Colorado.
83. National Park Service, Environmental Protection Agency, and Colorado Department of Public Health and Environment. 2010. Rocky Mountain National Park Initiative Nitrogen Deposition Reduction Contingency Plan.
<http://www.cdphe.state.co.us/ap/rmnp/RMNPContingencyPlanFinal.pdf>
84. National Park Service. 2010. Final Environmental Impact Statement: Jackson Hole Airport Agreement Extension, Grand Teton National Park. U.S. Department of the Interior, National Park Service.
85. Navratil, T., Norton, S.A., Fernandez, I.J., and Nelson, S.J. 2010. Twenty-year inter-annual trends and seasonal variations in precipitation and stream water chemistry at the Bear Brook Watershed in Maine, USA. Environmental Monitoring and Assessment, online publication, 23 pp., doi: 10.1007/s10661-010-1527-z.
86. Nelson, S.J., Fernandez, I.J., Kahl, J.S., 2010. Mercury concentration and deposition in snow in eastern temperate North America. Hydrological Processes 24: 1971-1980.
87. North Carolina, State of. 2010. 2006 Ambient Air Quality Report. Department of Environment and Natural Resources, Division of Air Quality.
88. North Carolina, State of. 2010. 2005 Ambient Air Quality Report. Department of Environment and Natural Resources, Division of Air Quality.
89. Norton, S.A., Fernandez, I.J., Kahl, J.S., Rustad, L.E., Navratil, T., and Almquist, H. 2010. The evolution of the science of Bear Brook Watershed in Maine, USA. Environmental Monitoring and Assess 171: 3–21, doi: 10.1007/s10661-010-1528-y.
90. O'Driscoll, M.A. and DeWalle, D.R. 2010. Seeps regulate stream nitrate concentration in a forested Appalachian catchment. Journal Environmental Quality 39: 420–431, doi: 10.2134/jeq2009.0083.
91. Padgett, P.E. 2010. The effect of ambient ozone and humidity on the performance of nylon and Teflon filters used in ambient air monitoring filterpack systems. Atmospheric Pollution Research 1: 23–29.
92. Pan, L., Lin, C.-J., Carmichael, G.R., Streets, D.G., Tang, Y., Woo, J.H., Shetty, S.K., Chu, H.-W., Ho, T.C., Friedli, H.R., and Feng, X. 2010. Study of atmospheric mercury budget in East Asia using STEM-Hg modeling system. Science of The Total Environment 408(16): 3277–3291, doi: 10.1016/j.scitotenv.2010.04.039.

93. Parman, J.N. 2010. Climatological and elevational controls on organic and inorganic nutrients in stream waters, Boulder Creek watershed, Colorado Front Range. A master's thesis submitted to the University of Colorado.
94. Parsons, M.J., Long, D.T., and Yohn, S.S. 2010. Assessing the natural recovery of a lake contaminated with Hg using estimated recovery rates determined by sediment chronologies. *Applied Geochemistry* 25: 1676–1687.
95. Peters, D.P.C. 2010. Accessible ecology: Synthesis of the long, deep, and broad. *Trends in Ecology & Evolution* 25(10): 592–601, doi: 10.1016/j.tree.2010.07.005.
96. Ponette-González, A.G., Weathers, K.C., and Curran, L.M. 2010. Tropical land-cover change alters biogeochemical inputs to ecosystems in a Mexican montane landscape. *Ecological Applications* 20:1820–1837, doi:10.1890/09-1125.1.
97. Pouyat, R.V., Weathers, K.C., Haeuber, R., Lovett, G.M., Bartuska, A., Christenson, L., Davis, J.L.D., Findlay, S.E.G., Menninger, H., Rosi-Marshall, E., Stine, P., and Lymn, N. 2010. The role of federal agencies in the application of scientific knowledge. *Frontiers in Ecology and the Environment* 8: 322–328, doi:10.1890/090180.
98. Prospero, J.M., Landing, W.M., and Schulz, M. 2010. African dust deposition to Florida: Temporal and spatial variability and comparisons to models. *Journal of Geophysical Research* 115: D13304, doi:10.1029/2009JD012773.
99. Reese, E. 2010. Comparison of agricultural area source ammonia gas concentration and flux measurements. All Graduate Theses and Dissertations, Paper 543, <http://digitalcommons.usu.edu/etd/543>.
100. Ren, X., Gao, H., Zhou, X., Crounse, J.D., Wennberg, P.O., Browne, E.C., LaFranchi, B.W., Cohen, R.C., McKay, M., Goldstein, A.H., and Mao, J. 2010. Measurement of atmospheric nitrous acid at Blodgett Forest during BEARPEX2007. *Atmospheric Chemistry and Physics Discussion* 10: 7383–7419, www.atmos-chem-phys-discuss.net/10/7383/2010/.
101. Richardson, B., Richardson, M., González, G., Shiels, A., and Srivastava, D. 2010. A canopy trimming experiment in Puerto Rico: The response of litter invertebrate communities to canopy loss and debris deposition in a tropical forest subject to hurricanes. *Ecosystems* 13(2): 286–301, doi: 10.1007/s10021-010-9317-6.
102. Risch, M.R., Baker, N.T., Fowler, K.K., Egler, A.L., and Lampe, D.C. 2010. Mercury in Indiana Watersheds: Retrospective for 2001–2006. U.S. Geological Survey Professional Paper 1780, 66 pp.
103. Rothenberg, S.E., McKee, L., Gilbreath, A., Yee, D., Conner, M., and Fu, X. 2010. Wet deposition of mercury within the vicinity of a cement plant before and during cement plant maintenance. *Atmospheric Environment* 44(10): 1255–1262, doi: 10.1016/j.atmosenv.2009.12.033.

104. Rygiwicz, P.T., Monleon, V.J., Ingham, E.R., Martin, K.J., and Johnson, M.G. 2010. Soil life in reconstructed ecosystems: Initial soil food web responses after rebuilding a forest soil profile for a climate change experiment. *Applied Soil Ecology* 45: 26–38.
105. Sahu, S.K., Gelfand, A.E., and Holland, D.M. 2010. Fusing point and areal level space–time data with application to wet deposition. *Journal of the Royal Statistical Society Series C (Applied Statistics)* 59(1): 77–103, doi: 10.1111/j.1467-9876.2009.00685.x.
106. Sanei, H., Goodarzi, F., and Outridge, P.M. 2010. Spatial distribution of mercury and other trace elements in recent lake sediments from central Alberta, Canada: An assessment of the regional impact of coal-fired power plants. *International Journal of Coal Geology* 82(1-2): 105–115, ISSN doi: 10.1016/j.coal.2010.01.010.
107. Sanei, H., Outridge, P.M., Goodarzi, F., Wang, F., Armstrong, D., Warren, K., and Fishback, L. 2010. Wet deposition mercury fluxes in the Canadian sub-Arctic and southern Alberta, measured using an automated precipitation collector adapted to cold regions. *Atmospheric Environment* 44(13): 1672–1681, doi: 10.1016/j.atmosenv.2010.01.030.
108. Schultheis, E.H., Hopfensperger, K.N., and Brenner, J.C. 2010. Potential impacts of climate change on *Sphagnum* bogs of the Southern Appalachian Mountains. *Natural Areas Journal* 30(4): 417–424, doi: 10.3375/043.030.0407.
109. Seaver, G.A. 2010. Estuary response to an abrupt, large increase in groundwater nitrate input. *Applied Geochemistry* 25: 1453–1460, doi:10.1016/j.apgeochem.2010.07.003.
110. Sherwood, O.A., Lapointe, B.E., Risk, M.J., and Jamieson, R.E. 2010. Nitrogen isotopic records of terrestrial pollution encoded in Floridian and Bahamian Gorgonian corals. *Environmental Science & Technology* 44(3): 874–880.
111. Sigleo, A.C., Frick, W.E., and Prieto, L. 2010. Red Alder (*Alnus rubra*) distribution influences nitrate discharge to coastal estuaries: Comparison of two Oregon watersheds. *Northwest Science* 84(4): 336–350, doi: 10.3955/046.084.0403.
112. Skogen, K.A., Holsinger, K.E., and Cardon, Z.G. 2010. Nitrogen deposition, competition and the decline of a regionally threatened legume, *Desmodium cuspidatum*. *Oecologia*, online publication, doi: 10.1007/s00442-010-1818-7.
113. Springsteen, A., Loya, W., Liebig, M., and Hendrickson, J. 2010. Soil carbon and nitrogen across a chronosequence of woody plant expansion in North Dakota. *Plant Soil* 328: 369–379, doi 10.1007/s11104-009-0117-8.
114. Sprovieri, E., Pirrone, N., Ebinghaus, R., Kock, H., and Dommergue, A. 2010. Worldwide atmospheric mercury measurements: A review and synthesis of spatial and temporal trends. *Atmospheric Chemistry and Physics Discussion* 10: 1261–1307, www.atmos-chem-phys-discuss.net/10/1261/2010/.

115. Stevens, C.J. and Tilman, D. 2010. Point source ammonia emissions are having a detrimental impact on prairie vegetation. *Water, Air, & Soil Pollution* 211(1-4): 435–441, doi: 10.1007/s11270-009-0312-5.
116. Stevenson, B.A., Kelly, E.F., McDonald, E.V., Busacca, A.J., and Welker, J.M. 2010. Oxygen isotope ratios in Holocene carbonates across a climatic gradient, eastern Washington State, USA: Evidence for seasonal effects on pedogenic mineral isotopic composition. *The Holocene Online*, doi:10.1177/0959683609356588.
117. Stoleson, S.H., King, D.I., and Tomosy, M. 2010. Avian research on U.S. Forest Service experimental forests and ranges: Emergent themes, opportunities, and challenges, forest ecology and management. In Press, Corrected Proof, doi: 10.1016/j.foreco.2010.07.038, <http://www.sciencedirect.com/science/article/B6T6X-50WXY57-3/2/99da408e75b1ca65e6b6571d162ed9a0>.
118. Stupple, G. 2010. Air mercury speciation, foliar uptake, and wash-off along an urban-rural gradient. A thesis submitted for the degree of Masters of Science, University of Toronto.
119. Sunderland, E.M., Dalziel, J., Heyes, A., Branfireun, B., Krabbenhoft, D.P., and Gobas, F.A.P.C. 2010. Response of a macrotidal estuary to changes in anthropogenic mercury loading between 1850 and 2000. *Environmental Science and Technology* 44: 1698–1704.
120. Tabatchnick, M.D. 2010. Mercury speciation in temperate tree foliage, A master's thesis for the degree of Master of Science, Wright State University.
121. Thornton, J.A., Kercher, J.P., Riedel, T.P., Wagner, N.L., Cozic, J., Holloway, J.S., Dube, W.P., Wolfe, G.M., Quinn, P.K., Middlebrook, A.M., Alexander, B., and Brown, S.S. 2010. A large atomic chlorine source inferred from mid-continental reactive nitrogen chemistry. *Nature* 464: 271–274, doi:10.1038/nature08905.
122. Tonnessen, K.A. 2010. Protecting wilderness air quality in the United States. In: McCool, D.N., Borrie, S.F., O'Loughlin, W.T. (cmpls.), *Wilderness science in a time of change conference—Volume 5: Wilderness Ecosystems, Threats, and Management*; 1999 May 23–27; Missoula, MT. Proceedings RMRS-P-15-VOL-5. Ogden, UT: U.S. Department of Agriculture, Forest Service, Rocky Mountain Research Station.
123. Tronstad, L.M., Hall, R.O., Koel, T.M., and Gerow, K.G. 2010. Introduced lake trout produced a four-level trophic cascade in Yellowstone Lake. *Transactions of the American Fisheries Society* 139: 1536–1550, doi: 10.1577/T09-151.1.
124. Troxler, T.G. and Childers, D.L. 2010. Biogeochemical contributions of tree islands to everglades wetland landscape nitrogen cycling during seasonal inundation. *Ecosystems* 13: 75–89, doi: 10.1007/s10021-009-9302-0.

125. Tucker, W.A. 2010. Final Report: Wekiva River Basin Nitrate Sourcing Study Prepared for: St. Johns River Water Management District, Palatka, Florida 32177 and Florida Department of Environmental Protection.
126. Ullman, W.J., Scudlark, J.R., and Volk, J.A. 2010. Standard Operating Procedure for the Calculation of N and P Deposition from the Atmosphere to Waters of Delaware's Inland Bays. Report for the Delaware Department of Natural Resources and Environmental Control, Dover DE 19901, http://www.inlandbays.org/cib_pm/pdfs/uploads/CIB_Atmos_Dep_SOP_FINAL.pdf
127. United States Department of the Interior, Bureau of Land Management. 2010. Competitive Oil and Gas Lease Sales (WY-080-EA10-22), August and November, 2010. Newcastle Field Office, Newcastle, Wyoming.
128. United States Forest Service, National Park Service, and U.S. Fish and Wildlife Service. 2010. Federal land managers' air quality related values work group (FLAG): phase I report—revised (2010). Natural Resource Report NPS/NRPC/NRR—2010/232. National Park Service, Denver, Colorado.
129. Vachon, R.W., Welker, J.M., White, J.W.C., and Vaughn, B.H. 2010. Monthly precipitation isoscapes (d18O) of the United States: Connections with surface temperatures, moisture source conditions, and air mass trajectories. *Journal of Geophysical Research* 115: D21126, doi:10.1029/2010JD014105.
130. Vadeboncoeur, M.A. 2010. Meta-analysis of fertilization experiments indicates multiple limiting nutrients in northeastern deciduous forests. *Canadian Journal of Forest Research* 40: 1766–1780.
131. Van Diepen, L.T.A., Lilleskov, E.A., Pregitzer, K.S., and Miller, R.M. 2010. Simulated nitrogen deposition causes a decline of intra- and extra-radical abundance of Arbuscular Mycorrhizal Fungi and Changes in microbial community structure in northern hardwood forests. *Ecosystems* 13(5): 683–695, doi: 10.1007/s10021-010-9347-0.
132. Van Furl, C., Colman, J.A., and Bothner, M.H. 2010. Mercury sources to Lake Ozette and Lake Dickey: Highly contaminated remote coastal lakes, Washington State, USA. *Water, Air & Soil Pollution* 208: 275–286, doi: 10.1007/s11270-009-0165-y.
133. Van Riper, L.C., Larson, D.L., and Larson, J.L. 2010. Nitrogen-limitation and invasive sweet clover impacts vary between two Great Plains plant communities. *Biological Invasions* 12(8): 2735–2749, doi: 10.1007/s10530-009-9678-y.
134. Vidon, P. and Cuadra, P.E. 2010. Impact of precipitation characteristics on soil hydrology in tile-drained landscapes. *Hydrological Processes* 24: 1821–1833.

135. Vijayaraghavan, K., Herr, J., Chen, S.-Y., and Knipping, E. 2010. Linkage between an advanced air quality model and a mechanistic watershed model. *Geosciences Model Development Discussion 3*: 1503–1548, doi:10.5194/gmdd-3-1503-2010.
136. Walters, D.M., Blocksom, K.A., Lazorchak, J.M., Jicha, T., Angradi, T.R., and Bolgrien, D.W. 2010. Mercury contamination in fish in midcontinent great rivers of the United States: Importance of species traits and environmental factors. *Environmental Science & Technology* 44(8): 2947–2953.
137. Ward, D.M., Nislow, K.H., Chen, C.Y., and Foltz, C.L. 2010. Rapid, efficient growth reduces mercury concentrations in stream-dwelling Atlantic salmon. *Transactions of the American Fisheries Society* 139: 1–10, doi: 10.1577/T09-032.1.
138. Weand, M.P., Arthur, M.A., Lovett, G.M., McCulley, R.L., and Weathers, K.C. 2010. Effects of tree species and N additions on forest floor microbial communities and extracellular enzyme activities. *Soil Biology & Biochemistry* 42: 2161–2173.
139. Wetherbee, G.A., Shaw, M.J., Latysh, N.E., Lehmann, C.M.B., and Rother, J.E. 2010. Comparison of precipitation chemistry measurements obtained by the Canadian Air and Precipitation Monitoring Network and National Atmospheric Deposition Program for the period 1995–2004. *Environmental Monitoring and Assessment* 164: 111–132, doi: 10.1007/s10661-009-0879-8.
140. Winder, V.L. and Emslie, S.D. 2010. Mercury in breeding and wintering Nelson's Sparrows (*Ammodramus nelsoni*). *Ecotoxicology* (online), doi: 10.1007/s10646-010-0573-1.
141. Williams, S.F. 2010. Spatial distribution of fluoride concentration in Goathill North Rock Pile, Questa Molybdenum Mine, Questa, New Mexico. A master's thesis submitted for the degree of Master of Science in Hydrology, University of Nevada, Reno.
142. Wyn, B., Kidd, K.A., Burgess, N.M., Curry, R.A., and Munkittrick, K.R. 2010. Increasing mercury in yellow perch at a hotspot in Atlantic Canada, Kejimikujik National Park. *Environmental Science and Technology* 44(23): 9176–9181, doi: 10.1021/es1018114.
143. Yi, L., Xiaolan, Y., Hongbing, C., Weili, L., Jie, T., and Shufeng, W. 2010. Chemical characteristics of precipitation at three Chinese regional background stations from 2006 to 2007. *Atmospheric Research* 96: 173–183, doi:10.1016/j.atmosres.2009.12.011.
144. Young, C.R. 2010. Extent of denitrification in Northport groundwater. A master's thesis for the degree of Master of Science, Stony Brook University.
145. Zhang, Y., Wen, X.-Y., and Jang, C.J. 2010. Simulating chemistry-aerosol-cloud-radiation-climate feedbacks over the continental U.S. using the online-coupled Weather Research Forecasting Model with chemistry (WRF/Chem). *Atmospheric Environment* 44: 3568–3582.

146. Zhao, S.Q., Liu, S., Li, Z., and Sohl, T.L. 2010. A spatial resolution threshold of land cover in estimating terrestrial carbon sequestration in four counties in Georgia and Alabama, USA. *Biogeosciences* 7: 71–80.