

PnET-BGC Articles

- Chen, L., and C. T. Driscoll. 2004. An evaluation of processes regulating spatial and temporal patterns in lake sulfate in the Adirondack region of New York. *Global Biogeochemical Cycles* 18:GB3024.
- Chen, L., and C. T. Driscoll. 2004. Modeling the response of soil and surface waters in the Adirondack and Catskill regions of New York to changes in atmospheric deposition and historical land disturbance. *Atmospheric Environment* 38:4099-4109.
- Chen, L., C. T. Driscoll, S. Gbondo-Tugbawa, M. J. Mitchell, and P. S. Murdoch. 2004. The application of an integrated biogeochemical model (PnET-BGC) to five forested watersheds in the Adirondack and Catskill regions of New York. *Hydrological Processes* 18:2631-2650.
- Chen, L., and C. T. Driscoll. 2005. Strategies for emission controls to mitigate snowmelt acidification. *Geophysical Research Letters* 32:L20401, 4 pp.
- Chen, L., and C. T. Driscoll. 2005. Regional application of an integrated biogeochemical model to northern New England and Maine. *Ecological Applications* 15:1783-1797.
- Chen, L., and C. T. Driscoll. 2005. Regional assessment of the response of the acid-base status of lake watersheds in the Adirondack region of New York to changes in atmospheric deposition using PnET-BGC. *Environmental Science and Technology* 39:787-794.
- Chen, L., and C. T. Driscoll. 2005. A two-layer model to simulate variations in surface water chemistry draining a northern forest watershed. *Water Resources Research* 41:8 pages.
- Driscoll, C. T., G. B. Lawrence, A. J. Bulger, T. J. Butler, C. S. Cronan, C. Eagar, K. F. Lambert, G. E. Likens, J. L. Stoddard, and K. C. Weathers. 2001. Acidic deposition in the northeastern United States: Sources and inputs, ecosystem effects, and management strategies. *BioScience* 51:180-198.
- Gbondo-Tugbawa, S., and C. T. Driscoll. 1998. Application of the Regional Mercury Cycling Model (RMCM) to Predict the Fate and Remediation of Mercury in Onondaga Lake, New York. *Water, Air, and Soil Pollution* 105:10.
- Gbondo-Tugbawa, S. S., C. T. Driscoll, J. D. Aber, and G. E. Likens. 2001. Evaluation of an integrated biogeochemical model (PnET-BGC) at a northern hardwood forest ecosystem. *Water Resources Research* 37:1057-1070.

- Gbondo-Tugbawa, S. S., and C. T. Driscoll. 2002. Evaluation of the effects of future controls on sulfur dioxide and nitrogen oxide emissions on the acid-base status of a northern forest ecosystem. *Atmospheric Environment* 36:1631-1643.
- Gbondo-Tugbawa, S. S., C. T. Driscoll, M. J. Mitchell, J. D. Aber, and G. E. Likens. 2002. A model to simulate the response of a northern hardwood forest ecosystem to changes in S deposition. *Ecological Applications* 12:8-23.
- Gbondo-Tugbawa, S. S., and C. T. Driscoll. 2002. Retrospective analysis of the response of soil and stream chemistry of a northern forest ecosystem to atmospheric emission controls from the 1970 and 1990 Amendments of the Clean Air Act. *Environmental Science and Technology* 36:4714-4720.
- Gbondo-Tugbawa, S. S., and C. T. Driscoll. 2003. Factors controlling long-term changes in soil pools of exchangeable basic cations and stream acid neutralizing capacity in a northern hardwood forest ecosystem. *Biogeochemistry* 63:161-185.
- Selvendiran, P., C. T. Driscoll, M. J. Mitchell, J. B. Shanley, B. Mayer, and S. Gbondo-Tugbawa. (In review). Application of a sulfur biogeochemical model with stable isotopes to Sleepers River Watershed in Vermont, USA. *Hydrological Processes*.
- Wu, W., and C. T. Driscoll. (In preparation). Application of PnET-BGC - an integrated biogeochemical model to assess the surface water ANC recovery at Adirondacks under three multi-pollutant proposals. *Ecological Applications*.
- Zhai, J., C. T. Driscoll, T. J. Sullivan, and B. J. Cosby. (In press). Regional application of the PnET-BGC model to assess historical acidification of Adirondack lakes. *Water Resources Research*.