

LTER NETWORK OFFICE-SPONSORED PUBLICATIONS

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- Aber, J.D., C. Driscoll, C.A. Federer, R. Lathrop, G. Lovett, J.M. Melillo, P. Steudler, and J. Vogelmann. 1993. A strategy for the regional analysis of the effects of physical and chemical climate change on biogeochemical cycles in Northeastern (U.S.) Forests. *Ecological Modelling* 67(1):36-48.
- Beller, A., T. Giblin, K.V. Lee, S. Litz, T. Kittel and D.S. Schimel. 1991. A temporal GIS prototype for global change research. Pages 752-765 in: *GIS/LIS '91 Proceedings*. Vol. 2.
- Benfield, E.F. (In review) Comparison of litterfall input to streams. *Journal of the American Benthological Society*.
- Bhowmik, N.G. 1987. Hydrologic research at LTER sites. *EOS* 68(37):745, 750, 756.
- Bildstein, K.L. and I.L. Brisbin, Jr. 1990. Lands for long-term research in conservation biology. *Conservation Biology* 4:301-308.
- Brunt, J.W., J. Porter and R. Nottrott. 1990. Internet Connectivity in LTER: Assessment and Recommendations. LTER Publication No. 7. Long-Term Ecological Research Network Office, University of Washington:Seattle, WA. 36 pp.
- Burke, I.C. and W.K. Lauenroth. 1993. What do LTER results mean? Extrapolating from site to region and decade to century. *Ecological Modelling* 67(1):19-36.
- Burke, I.C., T.G.F. Kittel, W.K. Lauenroth, P. Snook and C.M. Yonker. 1991. Regional analysis of the central Great Plains: sensitivity to climate variability. *BioScience* 41:685-692.
- Caine, N. and F.J. Swanson. 1989. Geomorphic coupling of hillslope and channel systems in two small mountain basins. *Z. Geomorph. N.F.* 33(2):189-203.
- Carpenter, S.R., T.M. Frost, J.F. Kitchell, T.K. Kratz, D.W. Schindler, J. Shearer, W.G. Sprules, M.J. Vanni and A.P. Zimmerman. 1991. Patterns of primary production and herbivory in 25 North American lake ecosystems.

Pages 67-96 in: J.J. Cole, G.M. Lovett and S.E.G. Findlay (eds.) Comparative Analyses of Ecosystems: Patterns, Mechanisms and Theories. Springer-Verlag:NY. 375 pp.

Chinn, H. and C. Bledsoe. (Submitted, 1995) Internet Access to Ecological Information: The U.S. LTER Multi-Site, On-line Bibliography Project. BioScience.

Cole, J.J., N.F. Caraco, G.W. Kling, and T.K. Kratz. 1994. Carbon dioxide supersaturation in the surface waters of lakes. *Science* 265:1568-1570.

Crum, J.R., G.P. Robertson and F. Nurnberger. 1990. Long-term climate trends and agricultural productivity in southwest Michigan. Pages 53-58 in: Greenland, D. and L.W. Swift, Jr. (eds.). *Climate Variability and Ecosystem Response*. General Technical Report SE-65, USDA Forest Service, Southeast Experiment Station, Asheville, NC. 90 pp.

Cushing, C.E. (In review) Organic matter dynamics in Rattlesnake Springs, Washington, U.S.A. *Journal of the American Benthological Society*.

Findlay, S., G.E. Likens, L. Hdein, S.G. Fisher and W.H. McDowell. (In review) Organic matter dynamics in Bear Brook, Hubbard Brook Experimental Forest. *Journal of the American Benthological Society*.

Foster, D.R. and E. Boose. 1992. Technology Development in the LTER Network--Current Status of GIS, Remote Sensing, Internet Connectivity, Archival Storage and Global Positioning Systems. LTER Publication No. 12. LTER Network Office, University of Washington:Seattle. 23 pp.

Franklin, J.F. 1988. Importance and justification of long-term studies in ecology. Pages 3-19 in: Likens, G. E. (ed.). *Long-Term Studies in Ecology: Approaches and Alternatives*. Springer-Verlag:New York.

Franklin, J.F. 1988. Past and future of ecosystem research-contributions of dedicated experimental sites. Pages 415-424 in: Swank, W.T. and D.A. Crossley (eds.). *Forest Hydrology and Ecology at Coweeta*. Springer-Verlag:New York.

Franklin, J.F. (ed.). 1990. 1990's Global Change Action Plan: Utilizing a Network of Ecological Research Sites. LTER Publication No. 4. Long-Term Ecological Research Network Office, University of Washington:Seattle, WA. 36 pp.

- Furrer, G., J. Westall, and P. Sollins. 1989. The study of soil chemistry through quasi-steady-state models. I. Mathematical definition of model. *Geochim. Cosmochim. Acta* 53:595-601.
- Furrer, G., P. Sollins, and J. Westall. 1990. The study of soil chemistry through quasi-steady-state models. II. Soil solution acidity. *Geochim. Cosmochim. Acta*. 54:2363-2374.
- Golladay, S.W. (In review) Suspended particulate organic matter concentration and export in streams. *Journal of the American Benthological Society*.
- Gray, L.J. (In review) Organic matter dynamics in Kings Creek. *Journal of the American Benthological Society*.
- Greenland, D. 1986. Standardized meteorological measurements for long-term ecological research sites. *Bulletin of the Ecological Society of America* 67:275-277.
- Greenland, D. (ed.). 1987. *The Climates of the Long-Term Ecological Research Sites*. LTER Publication No. 2. Occasional Paper No. 44, Institute of Arctic and Alpine Research, University of Colorado, Boulder. 81 pp.
- Greenland, D. 1990. Climate variability at Niwot Ridge in the Twentieth Century. Pages 59-62 in: D. Greenland and L.W. Swift, Jr. (eds.). *Climate Variability and Ecosystem Response*. General Technical Report SE-65, USDA Forest Service, Southeast Experiment Station:Asheville, NC.
- Greenland, D. 1993. Climate studies in the Long-Term Ecological Research Program. Pages 5-11 in: K.T. Redmond and V.L. Tharp (eds.). *Proceedings of the Ninth Annual Pacific Climate PACLIM Workshop*. Technical Report 34 of the Interagency Ecological Studies Program for the Sacramento-San Joaquin Estuary, Sacramento, CA Department of Water Resources. 194 pp.
- Greenland, D. (ed.). 1994. *El Nino & Long-Term Ecological Research Sites*. LTER Publication No. 18. LTER Network Office, University of Washington:Seattle, WA. 57 pp.
- Greenland, D. and L.W. Swift, Jr. (eds.). 1990. *Climate Variability and Ecosystem Response*. General Technical Report SE-65. LTER Publication No. 6. USDA Forest Service, Southeast Experiment Station:Asheville, NC. 90 pp.

Greenland, D., and L.W. Swift, Jr. 1991. Climate variability and ecosystem response: Opportunities for the LTER Network. *Bulletin of the Ecological Society of America* 72:118-126.

Greenland, D. and L.W. Swift. 1990. Overview of climate variability and ecosystem response. Pages 85-90 in: Greenland, D. and L.W. Swift, Jr. (eds.). *Climate Variability and Ecosystem Response*. General Technical Report SE-65, USDA Forest Service, Southeast Experiment Station, Asheville, NC. 90 pp.

Harmon, M.E. and H. Chen. 1991. A comparison of coarse woody debris dynamics in two old-growth forest ecosystems: Chanbai Mountain, PRC and H.J. Andrews Experimental Forest, USA. *BioScience* 41:604-610.

Harmon, M.E. and J. Sexton. 1996. *Guidelines for Measurements of Woody Detritus Dynamics*. LTER Publication No. 19. LTER Network Office, University of Washington:Seattle, WA. 73 pp.

Harvey, D.J., B.J. Peterson, W.B. Bowden, L.A. Deegan, J.C. Finlay, A.E. Hershey and M.C. Miller. (In review) Organic matter dynamics in the Kuparic River.

Hayden, B.P. 1990. Climate change and ecosystem dynamics at the Virginia Coast Reserve 18,000 B.P. Pages 76-84 in: D. Greenland and L.W. Swift, Jr. (eds.). *Climate Variability and Ecosystem Response*. General Technical Report SE-65, USDA Forest Service, Southeast Experiment Station, Asheville, NC. 90 pp.

Hayden, B.P., R.D. Dueser, J.T. Callahan, and H.H. Shugart. 1991. Long-term research at the Virginia Coast Reserve. *BioScience* 41:310-318.

Ingersoll, R. and S. Chapal. 1992. *The Management of Electronically Collected Data Within the Long-Term Ecological Research (LTER) Program: A Survey Conducted in January 1992*. Distributed by the LTER Network Office, University of Washington: Seattle, WA.

Irons, J.G. and M.W. Oswood. (In review) Organic matter dynamics in three subarctic streams in interior Alaska. *Journal of the American Benthological Society*.

Jones, J.B. (In review) Benthic organic matter storage in streams: influence of detrital import and export, retention mechanisms, and climate. *Journal of the American Benthological Society*.

Jones, J.B., J.D. Schade, S.G. Fisher and N.B. Grimm. (In review) Organic matter dynamics in Sycamore Creek. *Journal of the American Benthological Society*.

Kittel, T.G.F. 1990. Climatic variability in the shortgrass steppe. Pages 67-75 in: D. Greenland and L. W. Swift, Jr. (eds.). *Climate Variability and Ecosystem Response*. General Technical Report SE-65, USDA Forest Service, Southeast Experiment Station:Asheville, NC. 90 pp.

Kling, G.W. 1994. Ecosystem-scale experiments in freshwaters: the use of stable isotopes. Pp. 91-120 in: L.A. Baker (ed.). *Environmental Chemistry of Lakes and Reservoirs*. Advances in Chemistry Series 237. American Chemical Society, Washington, D.C.

Knapp, A.K. and J.B. Yavitt. 1992. Evaluation of a closed-chamber method for estimating methane emissions from aquatic plants. *Tellus* 44B:63-71.

Knapp, A.K. and J.B. Yavitt. 1995. Gas exchange characteristics of *Typha latifolia* L. from nine sites across North America. *Aquatic Botany* 49:203-215.

Kratz, T.K., B.J. Benson, E. Blood, G. Cunningham and R. Dahlgren. 1991. The influence of landscape position on temporal variability in four North American ecosystems. *The American Naturalist* 138(2):355-378.

Kratz, T.K., J.J. Magnuson, P. Bayley, B.J. Benson, C.W. Berish, C.S. Bledsoe, E.R. Blood, C.J. Bowser, S.R. Carpenter, G.L. Cunningham, R.A. Dahlgren, T.M. Frost, J.C. Halfpenny, U.D. Hansen, D. Heisey, R.S. Inouye, D.W. Kaufman, A. McKee, and J. Yarie. (In press.) Temporal and spatial variability as neglected ecosystem properties: lessons learned from 12 North American ecosystems. In: D. Rapport and P. Calow (eds.). *Evaluating and Monitoring the Health of Large-Scale Ecosystems*. Springer-Verlag:New York.

Lamberti, G.A. and A.D. Steinman. (In review) A comparison of primary production in stream ecosystems. *Journal of the American Benthological Society*.

Lauenroth, W.K., D.P. Coffin, and I.C. Burke. 1995. Interactions between demographic and ecosystem processes: A challenge for functional types. In: T.M. Smith, I.A. Woodward, and H.H. Shugart (eds.). *Plant Functional Types*. Cambridge University Press:London. (In press)

Lauenroth, W.K., D.L. Urban, D.P. Coffin, W.J. Parton, H.H. Shugart, T.B.

Kirchner and T.M. Smith. 1993. Modeling vegetation structure_ecosystem process interactions across sites and ecosystems. *Ecological Modelling* 67(1):49-80.

Lee, T.J., R.A. Pielke, T.G.F. Kittel, and J.F. Weaver. 1993. Atmospheric modeling and its spatial representation of land surface characteristics. Pages 108-122 in: M.F. Goodchild, B.O. Parks, and L.T. Steyaert (eds.). *Geographic Information Systems and Environmental Modeling*. Oxford University Press:New York.

Long-Term Ecological Research Network. National Research Sites with a Common Commitment. 1993. U.S. LTER Network Office, University of Washington:Seattle, WA. 8 pp.

Long-Term Ecological Research Network All Scientists Meeting and International Summit Abstracts. 1993. September 18-24, 1993, Estes Park, CO. LTER Network Office, University of Washington:Seattle, WA. 65 pp.

Long-Term Intersite Decomposition Experiment Team (LIDET). 1995. Meeting the Challenge of Long-Term, Broad-Scale Ecological Experiments. LTER Publication No. 19. LTER Network Office, University of Washington:Seattle.

LTER Network News. (Biannual) Newsletter of the U.S. LTER Network. LTER Network Office, University of Washington:Seattle, WA. 20 pp.

McKnight, D.M. and C.M. Tate. (In review) Canada Stream: a glacial meltwater stream in Taylor Valley, South Victoria Land, Antarctica. *Journal of the American Benthological Society*.

Magnuson, J.J. 1990. Long-term ecological research and the invisible present. *BioScience* 40(7):495-501.

Magnuson, J.J. and C.J. Bowser. 1990. A network for long-term ecological research in the United States. *Freshw. Biol.* 23:137-143.

Magnuson, J.J. and J. Drury. 1991. Global change ecology. *The World and I* 6(4):304-311. Reprinted as pages 39-45 in: J.L. Allen (ed.). *Annual Editions: Environment '92/'93* (11th Edition). The Dushkin Publishing Group: Guilford, CN.

Magnuson, J.J., T.K. Kratz, T.M. Frost, C.J. Bowser, B.J. Benson and R. Nero.

1991. Expanding the temporal and spatial scales of ecological research and comparison of divergent ecosystems: roles for LTER in the United States. Pages 45-66 in: P.G. Risser and J.M. Melillo (eds.). Long-Term Ecological Research, An International Perspective. SCOPE 47. Wiley & Sons, Chichester.

Marxen, J., H. Schmidt and D.M. Fiebig. (In review) Organic matter dynamics in the Breitenbach. *Journal of the American Benthological Society*.

Meyer, J.L. et al. (eds.). 1993. Stream Research in the LTER Network. LTER Publication No. 15. Long-Term Ecological Research Network Office:Seattle, WA. 114 pp.

Meyer, J.L., A.C. Benke, R.T. Edwards and J.B Wallace. (In review) Organic matter dynamics in a blackwater river. *Journal of the American Benthological Society*.

Michener, W.K., A.B. Miller and R.W. Nottrott (eds.). 1990. Long-Term Ecological Research Network Core Data Set Catalog. Belle W. Baruch Institute for Marine Biology and Coastal Research, University of South Carolina:Columbia. 322 pages.

Michener, W.K., J.W. Brunt and S.G. Stafford. 1994. Environmental Information Management and Analysis: Ecosystem to Global Scales. Taylor & Francis. Ltd.:London.

Milne, B.T. 1991. Lessons from applying fractal models to landscape patterns. Pages 199-235 in: M.G. Turner and R.H. Gardner (eds.). *Quantitative Methods in Landscape Ecology*. Sevilleta LTER Publication No. 5. Springer-Verlag, New York.

Mulholland, P.J. (In review) Dissolved organic matter concentration and flux in streams. *Journal of the American Benthological Society*.

Muholland, P.J. (In review) Dissolved organic matter concentration and flux in streams. *Journal of the American Benthological Society*.

Naiman, R.J. and G.L. Link. (In review) Organic matter dynamics in five subarctic streams. *Journal of the American Benthological Society*.

Newbold, J.D., T.L. Bott, L.A. Kaplan, B.W. Sweeney and R.L. Vannote. (In review) Organic matter dynamics in White Clay Creek, Pennsylvania. *Journal of the American Benthological Society*.

Nottrott, R.W., J.F. Franklin and J.R. Vande Castle (compilers). 1994. International Networking in Long-Term Ecological Research. LTER Publication No. 17. LTER Network Office, University of Washington:Seattle, WA. 106 pp.

O'Neill, R.V., S J. Turner, V.I. Cullinan, D.P. Coffin, T. Cook, W. Conley, J. Brunt, J.M. Thomas, M.R. Conley and J. Gosz. 1991. Multiple landscape scales: an intersite comparison. *Landsc. Ecol.* 5:137-144.

Pielke, R.A., T.J. Lee, J.F. Weaver, and T.G.F. Kittel. 1990. Influence of vegetation on water and heat distribution over mesoscale-sized areas. Pages 46-49 in: Eighth Conference on Hydrometeorology October 22-26, 1990, Kananaskis Park, Alberta, Canada. American Meteorological Society, Boston:Mass.

Pielke, R.A., G. Dalu, J.S. Snook, T.J. Lee and T.G.F. Kittel. 1991. Nonlinear influence of mesoscale landuse on weather and climate. *J. Climate* 4:1053-1069.

Pielke, R.A., G. Dalu, J.R. Garratt, T.G.F. Kittel, R.A. Stocker, T.J. Lee and J.S. Snook. 1992. Influence of mesoscale landuse on weather and climate and its representation for use in larger scale models. Pages 537-586 in: D.R. Sikka and S.S. Singh (eds.). *Physical Processes in Atmospheric Models*. Wiley Eastern:New Delhi, India.

Pielke, R.A., D.S. Schimel, T.J. Lee, T.G.F. Kittel, and X. Zeng. 1993. Atmosphere-terrestrial ecosystem interactions: implications for coupled modeling. *Ecological Modelling* 67(1):5-18.

Pielke, R.A., G. Dalu, T.G.F. Kittel, T.J. Lee, D. Ojima, and X. Zeng. (Submitted.) Influence of surface heat and moisture fluxes on climate and weather. *J. Soil and Water Conservation*.

Risser, P.G. 1991. Long-Term Ecological Research and Global Change. SCOPE Series. John Wiley & Sons:New York, NY.

Risser, P.G. and J.M. Melillo. 1991. Long-Term Ecological Research, An International Perspective. SCOPE 47. John Wiley & Sons:Chichester. 294 pp.

Risser, P.G., J.M. Melillo, and J.R. Gosz. 1991. Current status and future of long-term ecological research. Pages 275-284 in: P.G. Risser (ed.). Long-Term Ecological Research, An International Perspective. SCOPE 47. John

Wiley & Sons:Chichester. 294 pp.

Robertson, D.M. 1990. Lakes as indicators of and responders to climatic change. Pages 38-46 in: D. Greenland and L.W. Swift, Jr. (eds.). *Climate Variability and Ecosystem Response*. General Technical Report SE-65, USDA Forest Service, Southeast Experiment Station, Asheville, NC. 90 pp.

Runkle, J.R. 1992. Guidelines and Sample Protocol for Sampling Forest Gaps. General Technical Report PNW-GTR-283. LTER Publication No. 14. USDA Forest Service, Pacific Northwest Research Station, Portland, Oregon. 44 pp.

Seastedt, T.R. and J.M. Briggs. 1991. Long-term ecological questions and considerations for taking long-term measurements: Lessons from the LTER and FIFE programs on tallgrass prairie. Pages 153-170 in P.G. Risser (ed.) *Long-Term Ecological Research: An International Perspective*. SCOPE 47. John Wiley & Sons:Chichester. 294 pages.

Schimel, D.S., T.G.F. Kittel, and W.J. Parton. 1991. Terrestrial biogeochemical cycles: Global interactions with the atmosphere and hydrology. *Tellus* 43AB:188-203.

Schlesinger, W.H., et al. 1992. Soil-warming experiments in global change research. Report of a workshop held in Woods Hole, Massachusetts, September 27-28, 1991.

Shugart, H.H., et al. 1988. Report of the National Science Foundation Advisory Committee on Scientific and Technological Planning for Long-Term Ecological Research Projects.

Shugart, H.H. 1990. Modeling future changes of vegetation succession. Pages 61-67 in: *Proceedings of the Symposium on Global Change Systems*. American Meteorological Society, Boston, Massachusetts.

Shugart, H.H., G.B. Bonan, D.L. Urban, W.K. Lauenroth, W.J. Parton, and G.M. Hornberger. 1991. Computer models and long-term ecological research. Pages 211-239 in: P.R. Risser (ed.). *Long-Term Ecological Research and Global Change*. SCOPE 47. John Wiley & Sons:Chichester.

Sinsabaugh, R.L. (In review) Large-scale trends for stream benthic respiration. *Journal of the American Benthological Society*.

Solute Dynamics Workshop. 1990. Concepts and methods for assessing

solute dynamics in stream ecosystems. Proceedings of a workshop at the University of Mississippi, February 1989. *Jrnl. N. Am. Benthol. Soc.* 9(2):95-119.

Smock, L.A. (In review) Organic matter dynamics in Buzzards Branch. *Journal of the American Benthological Society*.

Swanson, F.J., and J.F. Franklin. 1988. The Long-Term Ecological Research Program. *EOS: Transactions of the American Geophysical Union* 69:34, 36, 46.

Swanson, F.J. and R.E. Sparks. 1990. Long-term ecological research and the invisible place. LTER Publication No. 9. *BioScience* 40:502-508.

Swanson, F.J., T.K. Kratz, N. Caine, R.G. Woodmansee. 1988. Landform effects on ecosystem patterns and processes. *BioScience* 38(2):92-98.

Swift, L.W., Jr. and E.R. Blood. 1987. Drought impact research at two LTER sites. Pages 102-105 in: Proceedings, Southeastern drought symposium, March 4-5, 1987, Columbia, SC. South Carolina State Climatology Office Publication G-30. South Carolina Water Resources Commission: Columbia, SC.

Swift, L.W., Jr. and G.B. Cunningham. 1986. Routines for collecting and summarizing hydrometeorological data at Coweeta Hydrologic Laboratory. Pages 301-320 in: Michener, William K. (ed.). Research data management in the ecological sciences, November 4-6, 1984, Hobcaw Barony, Georgetown, SC. University of South Carolina Press: Georgetown, SC.

Swift, Lloyd W., Jr. and H.L. Ragsdale. 1985. Meteorological data stations at Long-Term Ecological Research sites. Pages 25-37 in: B.A. Hutchison and B.B. Hicks (eds.). The forest-atmosphere interaction: Proceedings, forest environment measurements conference, October 23-28, 1983, Oak Ridge, TN. D. Reidel Publishing Company:Dordrecht, Holland.

Swift, L.W., Jr., J.B. Waide, and D.L. White. 1989. Refinements in the Z-T method of extreme value analysis for small watersheds. Pages 60-65 in: Proceedings, 6th conference on applied climatology; March 7-10, 1989, Charleston, SC. American Meteorological Society:Boston, MA.

Swift, L.W., Jr., J.B. Waide, and D.L. White. 1990. Application of the Z-T extreme event analysis using Coweeta streamflow and precipitation data. Pages 13-18 in: D. Greenland and L.W. Swift, Jr. (eds.). Climate Variability and Ecosystem Response. General Technical Report SE-65, USDA Forest

Service, Southeast Experiment Station, Asheville, NC. 90 pp.

Tilman, D. and D. Wedin. 1991. Oscillations and chaos in the dynamics of a perennial grass. *Nature* 353:653-655.

Treadwell, S.A., I.C. Campbell and R.T. Edwards. (In review) Organic matter dynamics in Keppel Creek, southeastern Australia. *Journal of the American Benthological Society*.

U.S. Long-Term Ecological Research Network: National Research Sites with a Common Commitment. 1993. LTER Network Office, University of Washington: Seattle, WA. 8 pp.

Van Cleve, K., and S.J. Martin. 1991. Long-Term Ecological Research in the United States, A Network of Research Sites 1991. Sixth Edition. LTER Publication No. 11. Long-Term Ecological Research Network Office, University of Washington: Seattle, WA. 178 pp.

Vande Castle, J.R. 1991. Remote sensing and modeling activities for long-term ecological research. Pages 544-555 in: GIS/LIS '91 Annual Conference, Atlanta, GA, October/November 1991, Proceedings, Vol. 2. American Society for Photogrammetry and Remote Sensing.

Viereck, L.A. and P.C. Adams. 1990. Variation in microclimate among sites and changes of climate with time. Pages 19-26 in: Greenland, D. and L.W. Swift, Jr. (eds.). *Climate Variability and Ecosystem Response*. General Technical Report SE-65, USDA Forest Service, Southeast Experiment Station, Asheville, NC. 90 pp.

Wallace, J.B., T.F. Cuffney, S.L. Eggert and M.R. Whiles. (In review) Stream organic matter inputs, storage, and export for Satellite Branch at Coweeta Hydrologic Laboratory. *Journal of the American Benthological Society*.

Webster, J.R. and D.J. D'Angelo. (In review) A regional analysis of the physical characteristics of streams. *Journal of the American Benthological Society*.

Webster, J.R. and J.L. Meyer. (In review) Stream organic matter budgets--introduction. *Journal of the American Benthological Society*.

Webster, J.R., J.L. Meyer, J.B. Wallace and E.F. Benfield. (In review) Organic matter dynamics in Hugh White Creek. *Journal of the American*

Benthological Society.

Woodmansee, R.G. 1990. Biogeochemical cycles and ecological hierarchies. Pages 57-71 in: I S. Zonneveld and R.T.T. Forman (eds.). *Changing Landscapes: An Ecological Perspective*. Springer-Verlag:New York.

Yavitt, J.B. and A.K. Knapp. 1995. Methane emission to the atmosphere through emergent cattail (*Typha latifolia* L.) plants. *Tellus* 47B:521-534.

Zak, D.R., D.F. Grigal, S. Gleeson and D. Tilman. 1990. Carbon and nitrogen cycling during secondary succession: constraints on plant and microbial productivity. *Biogeochemistry* 11:111-129.

Zak, D.R., D. Tilman, R.R. Parmenter, C.W. Rice, F.M. Fisher, J. Vose, D. Milchunas and C.W. Martin. 1994. Plant production and soil microorganisms in late-successional ecosystems: a continental-scale study. *Ecology*. 75(8):2333-2347.