

## References

- Allee, W.C. 1931. *Animal Aggregations: A Study in General Sociology*. University of Chicago Press, Chicago
- Alley, R.B. J. Marotzke, W. D. Nordhaus, J. T. Overpeck, D. M. Peteet, R. A. Pielke Jr., R. T. Pierrehumbert, P. B. Rhines, T. F. Stocker, L. D. Talley, and J. M. Wallace. 2003. Abrupt climate change. *Science* 299: 2005-2010
- Anderies, J.M. 1998. Culture and human agro-ecosystem dynamics: The Tsembaga of New Guinea. *Journal of Theoretical Biology* 192: 515-530
- Anderson, P.J. and J.F. Piatt. 1999. Community reorganization in the Gulf of Alaska following ocean climate regime shift. *Marine Ecology Progress Series* 189: 11-123
- Asmussen, M.A. 1979. Density-dependent selection. II. The Allee effect. *American Naturalist* 114: 796-809
- Beard, T.D., Jr., S.P. Cox and S.R. Carpenter. 2003a. Impacts of daily bag limit reductions on angler effort in Wisconsin walleye lakes. *North American Journal of Fisheries Management*: In press
- Beard, T.D., Jr., P.W. Rasmussen, S.P. Cox and S.R. Carpenter. 2003b. Evaluation of a mixed walleye spearing and angling fishery management system in northern Wisconsin. *North American Journal of Fisheries Management*: In press
- Begon, M., J.L. Harper and C.R. Townsend. 1986. *Ecology: Individuals, Populations, and Communities*. Sinauer Associates, Sunderland, Mass.

- Beisner, B.E., C.L. Dent and S.R. Carpenter. 2003a. Variability of lakes on the landscape: roles of phosphorus, food webs and dissolved organic carbon. *Ecology* 72: 331-342
- Beisner, B.E., A.R. Ives and S.R. Carpenter. 2003b. Effects of an exotic fish invasion on the prey communities of two lakes. *Journal of Animal Ecology*: In press
- Benndorf, J. 1995. Possibilities and limits for controlling eutrophication by biomanipulation. *Internationale Revue der Gesamten Hydrobiologie* 80: 519-34
- Bennett, E.M., T. Reed-Andersen, J.N. Houser, J.R. Gabriel and S.R. Carpenter. 1999. A phosphorus budget for the Lake Mendota watershed. *Ecosystems* 2: 69-75
- Bennett, E.M., S.R. Carpenter and N.F. Caraco. 2001. Human impact on erodable phosphorus and eutrophication: a global perspective. *BioScience* 51: 227-34
- Berkes, F., J. Colding and C. Folke (ed.). 2002. *Navigating Social-Ecological Systems: Building Resilience for Complexity and Change*. Cambridge University Press, Cambridge
- Bernardo, J.M. and A.F.M. Smith. 2000. *Bayesian Theory*. Wiley, New York
- Botkin, D.B. 1990. *Discordant Harmonies*. Oxford University Press, London
- Box, G.E.P. 1966. Use and abuse of regression. *Technometrics* 8: 625-629
- Box, G.E.P. 1980. Sampling and Bayes' inference in scientific modeling and robustness. *Journal of the Royal Statistical Society, Series A* 143: 383-430
- Brock, T.D. 1985. *A Eutrophic Lake: Lake Mendota, Wisconsin*. Springer-Verlag, New York

- Brock, W.A. and S.N. Durlauf. 1999. A formal model of theory choice in science.  
Economic Theory 14: 113-130
- Brock, W.A. and S.N. Durlauf. 2001. Interactions-based models. pp. 3297-3380. *In: J.J. Heckman and E. Leamer (eds.) Handbook of Econometrics, Elsevier, Amsterdam, The Netherlands*
- Brock, W.A., W.D. Dechert, B. LeBaron and J.A. Schenkman. 1996. A test for independence based on the correlation dimension. *Econometric Reviews* 15: 197-235
- Broecker, W. 1987. Unpleasant surprises in the greenhouse? *Nature* 328: 123-126
- Brooks, J.L. and S.I. Dodson. 1965. Predation, body size, and composition of plankton. *Science* 150: 28-35
- Burnham, K.P. and D.R. Anderson. 1998. *Model Selection and Inference: A Practical Information-theoretic Approach*. Springer, New York
- Canfield, D.E. and R.W. Bachmann. 1981. Prediction of total phosphorus concentrations, chlorophyll a, and Secchi depths in natural and artificial lakes. *Canadian Journal of Fisheries and Aquatic Sciences* 38: 414-423
- Caraco, N.F., J.J. Cole and G.E. Likens. 1991. A cross-system study of phosphorus release from lake sediments. *In: J. Cole, G. Lovett and S. Findlay (eds.) Comparative Analysis of Ecosystems*. Springer-Verlag, New York
- Carpenter, S.R. 1988a. Transmission of variance through lake food webs. pp. 119-35. *In: S.R. Carpenter (ed.) Complex interactions in lake communities.*, Springer-Verlag, New York

- Carpenter, S.R. (ed.). 1988b. Complex Interactions in Lake Communities. Springer-Verlag, New York
- Carpenter, S.R. 1989. Replication and treatment strength in whole-lake experiments. *Ecology* 70: 453-63
- Carpenter, S.R. and P.R. Leavitt. 1991. Temporal variation in a paleolimnological record arising from a trophic cascade. *Ecology* 72: 277-85
- Carpenter, S.R. 1992. Destabilization of planktonic ecosystems and blooms of blue-green algae. pp. 461-482. *In*: J.F. Kitchell (ed.) Food Web Management: A Case Study of Lake Mendota. Springer-Verlag, New York
- Carpenter, S.R. 1996. Microcosm experiments have limited relevance for community and ecosystem ecology. *Ecology* 77: 677-80
- Carpenter, S.R. 1998. The need for large-scale experiments to assess and predict the response of ecosystems to perturbation. pp. 287-312. *In*: M.L. Pace and P.M. Groffman (eds.) Successes, Limitations, and Frontiers in Ecosystem Science. Springer-Verlag, New York
- Carpenter, S.R. 2001. Alternate states of ecosystems: evidence and some implications. pp. 357-83. *In*: M.C. Press, N.J. Huntly and S. Levin (eds.) Ecology: Achievement and Challenge. Blackwell Science, Oxford
- Carpenter, S.R. 2002. Ecological futures: building an ecology of the long now. *Ecology* 83: 2069-2083
- Carpenter, S.R. 2003. The need for fast and frugal models. *In*: C.D. Canham, J.J. Cole and W.K. Lauenroth (eds.) Understanding Ecosystems: The Role of Quantitative Models in Observation, Synthesis and Prediction. Princeton University Press

- Carpenter, S.R. and L.H. Gunderson. 2001. Coping with collapse: ecological and social dynamics in ecosystem management. *BioScience* 51: 451-7
- Carpenter, S.R. and J.F. Kitchell. 1988. Consumer control of lake productivity. *BioScience* 38: 764-9
- Carpenter, S.R. and J.F. Kitchell (eds.). 1993. *The Trophic Cascade in Lakes*. Cambridge University Press, Cambridge, England
- Carpenter, S.R. and M.G. Turner. 2000. Hares and tortoises: Interactions of fast and slow variables in ecosystems. *Ecosystems* 3: 495-497
- Carpenter, S.R., J.F. Kitchell and J.R. Hodgson. 1985. Cascading trophic interactions and lake productivity. *BioScience* 35: 634-639
- Carpenter, S.R., J.F. Kitchell, J.R. Hodgson, P.A. Cochran, J.J. Elser, M.M. Elser, D.M. Lodge, D. Kretchmer, X. He and C.N. Von Ende. 1987. Regulation of lake primary productivity by food web structure. *Ecology* 68: 1863-76
- 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. pp. 67-96. *In*: J. Cole, G. Lovett and S. Findlay (eds.) *Comparative Analyses of Ecosystems: Patterns, Mechanisms, and Theories*. Springer-Verlag, New York
- Carpenter, S.R., C.E. Kraft, R. Wright, X. He, P. Soranno and J.R. Hodgson. 1992. Resilience and resistance of a lake phosphorus cycle before and after food web manipulation. *American Naturalist* 140: 781-98
- Carpenter, S.R., K.L. Cottingham and C.A. Stow. 1994. Fitting predator-prey models to time series with observation errors. *Ecology* 75: 1254-64

- Carpenter, S.R., S.W. Chisholm, C.J. Krebs, D.W. Schindler and R.F. Wright. 1995. Ecosystem experiments. *Science* 269: 324-327
- Carpenter, S.R. and M.L. Pace. 1997. Dystrophy and eutrophy in lake ecosystems Implications of fluctuating inputs. *Oikos* 78: 3-14
- Carpenter, S.R., N.F. Caraco, D.L. Correll, R.W. Howarth, A.N. Sharpley and V.H. Smith. 1998a. Nonpoint pollution of surface waters with phosphorus and nitrogen. *Ecological Applications* 8: 559-568
- Carpenter, S.R., J.J. Cole, T.E. Essington, J.R. Hodgson, J.N. Houser, J.F. Kitchell and M.L. Pace. 1998b. Evaluating alternative explanations in ecosystem experiments. *Ecosystems* 1: 335-44
- Carpenter, S.R., W.A. Brock and P.C. Hanson. 1999a. Ecological and social dynamics in simple models of ecosystem management. *Conservation Ecology* 3. Available on the internet: <http://www.consecol.org/vol3/iss2/art4>
- Carpenter, S.R., D. Ludwig and W.A. Brock. 1999b. Management of eutrophication for lakes subject to potentially irreversible change. *Ecological Applications* 9: 751-771
- Carpenter, S.R., B.H. Walker, J.M. Anderies and N. Abel. 2001a. From metaphor to measurement: resilience of what to what? *Ecosystems* 4: 765-81
- Carpenter, S.R., J.J. Cole, J.R. Hodgson, J.F. Kitchell, M.L. Pace, D. Bade, K.L. Cottingham, T.E. Essington, J.N. Houser and D.E. Schindler. 2001b. Trophic cascades, nutrients, and lake productivity: whole-lake experiments. *Ecological Monographs* 71: 163-86
- Carpenter, S.R., R.C. Lathrop, P. Nowak, E.M. Bennett, T. Reed-Anderson and P.A. Soranno. 2004. The ongoing experiment: restoration of Lake Mendota and its

- watershed. *In*: J.J. Magnuson and T.K. Kratz (eds.) *Lakes in the Landscape*.  
Oxford University Press, London
- Chapra, S.C. and K.H. Reckhow. 1983. *Engineering Approaches for Lake Management*.  
Butterworth, Boston
- Charlton, M.N. 1980. Hypolimnion oxygen consumption in lakes: discussion of  
productivity and morphometry effects. *Canadian Journal of Fisheries and Aquatic  
Sciences* 37: 1531-1539
- Chavez, F.P., J. Ryan, S.E. Lluch-Cota and C.M. Niquen. 2003. From anchovies to  
sardines and back: multidecadal change in the Pacific Ocean. *Science* 299: 217-  
221
- Christensen, D.L., B.R. Herwig, D.E. Schindler and S.R. Carpenter. 1996. Impacts of  
lakeshore residential development on coarse woody debris in North Temperate  
lakes. *Ecological Applications* 6: 1143-1149
- Christie, W.J. 1974. Changes in the fish species composition of the Great Lakes.  
*Journal of Fisheries Res. Board Can.* 31: 827-854
- Clark, C.W. 1990. *Mathematical Bioeconomics: The Optimal Management of  
Renewable Resources*, Wiley, NY
- Clark, C.W. and M. Mangel. 2000. *Dynamic State Variables in Ecology: Methods and  
Applications*. Oxford University Press, New York
- Clark, J.S., S.R. Carpenter, M. Barber, S. Collins, A. Dobson, J. Foley, D. Lodge, M.  
Pascual, R.P. Jr., W. Pizer, C. Pringle, W. Reid, K. Rose, O. Sala, W.  
Schlesinger, D. Wall and D. Wear. 2001. Ecological Forecasting: an emerging  
imperative. *Science* 293: 657-660

- Cole, J., S. Findlay and G. Lovett (eds.). 1991. Comparative Analyses of Ecosystems: Patterns, Mechanisms and Theories. Springer-Verlag, NY
- Cole, J.J., M.L. Pace, S.R. Carpenter and J.F. Kitchell. 2001. Persistence of net heterotrophy in lakes during nutrient addition and food web manipulations. *Limnology and Oceanography* 45: 1718-1730
- Cooke, G.D., E.B. Welch, S.A. Peterson and P.R. Newroth. 1993. Restoration and Management of Lakes and Reservoirs. Lewis Publishers, Boca Raton, FL
- Cooman, G. and P. Walley. 2000. The imprecise probabilities project. Available on the internet: <http://ippserv.rug.ac.be/home/ipp.html>
- Cornett, R.J. and F.H. Rigler. 1980. The areal hypolimnetic oxygen deficit: an empirical test of the model. *Limnology and Oceanography* 25: 672-679
- Cottingham, K.L. and S.R. Carpenter. 1998. Population, community and ecosystem variates as ecological indicators: phytoplankton response to whole-lake enrichment. *Ecological Applications* 8: 508-530
- Cushing, D.H. 1996. Towards a Science of Recruitment in Fish Populations. Ecology Institute, Oldendorf/Luhe, Germany
- Daskalov, G.M. 2002. Overfishing drives a trophic cascade in the Black Sea. *Marine Ecology Progress Series* 225: 53-63
- de Roos, A. and L. Persson. 2002. Size-dependent life history traits promote catastrophic collapses of top predators. *Proceeding of the National Academy of Sciences* 99: 12907-12912
- Dennis, B. 1989. Allee effects: population growth, critical density, and the chance of extinction. *Natural Resource Modeling* 3: 481-538

- Dennis, B., R.A. Desharnais and J.M. Cushing. 1995. Nonlinear demographic dynamics: mathematical models, statistical methods, and biological experiments. *Ecological Monographs* 65: 261-81
- Dent, C.L., G.S. Cumming and S.R. Carpenter. 2002. Multiple states in river and lake ecosystems. *Philosophical Transactions of the Royal Society of London B Biological Sciences* 357: 632-45
- Deutsch, C., M.G. Hall, D.F. Bradford and K. Keller. 2002. Detecting a potential collapse of the North Atlantic thermohaline circulation: Implications for the design of an ocean observation system. *Energy Modeling Forum, Snowmass, Colorado*
- Draper, N.R. and H. Smith. 1981. *Applied regression analysis*. John Wiley & Sons, New York
- Edmondson, W.T. 1979. Lake Washington and the predictability of limnological events. *Arch. Hydrobiol. Beih.* 13: 234-41
- Edmondson, W.T. 1991. *The Uses of Ecology: Lake Washington and Beyond*. University of Washington Press, Seattle, Washington, USA
- Efron, B. and R.J. Tibshirani. 1993. *An introduction to the bootstrap*. Chapman and Hall, New York
- Ellner, S.P., B.A. Bailey, G.V. Bobashev, A.R. Gallant, B.T. Grenfell and D.W. Nychka. 1998. Noise and nonlinearity in measles epidemics: combining mechanistic and statistical approaches to population modeling. *American Naturalist* 151: 425-440
- Elser, J.J., M.M. Elser, N.A. MacKay and S.R. Carpenter. 1988. Zooplankton-mediated transitions between N- and P-limited algal growth. *Limnology and Oceanography* 33: 1-14

- Elser, J.J., D.R. Dobberfuhl, N.A. MacKay and J.H. Schampel. 1996. Organism size, life history, and N:P stoichiometry. *BioScience* 46: 674-84
- Elser, J.J., T.H. Chrzanowski, R.W. Sterner and K.H. Mills. 1998. Stoichiometric constraints on food-web dynamics: a whole lake experiment on the Canadian Shield. *Ecosystems* 1: 120-136
- Emlen, J.M. 1984. *Population Biology: The Coevolution of Population Dynamics and Behavior*. Macmillan, New York
- Fernández, C., E. Ley and M.F.J. Steel. 2001. Benchmark priors for Bayesian model averaging. *Journal of Econometrics* 100: 381-427
- Folke, C., S.R. Carpenter, T. Elmqvist, L. Gunderson, C.S. Holling and B. Walker. 2002a. Resilience and sustainable development: Building adaptive capacity in a world of transformations. *Ambio* 31: 437-440
- Folke, C., S.R. Carpenter, T. Elmqvist, L. Gunderson, C.S. Holling, B. Walker, J. Bengtsson, F. Berkes, J. Colding, K. Danell, M. Falkenmark, L. Gordon, R. Kaspersen, N. Kautsky, A. Kinzig, S. Levin, K.G. Maler, F. Moberg, L. Ohlsson, P. Olsson, E. Ostrom, W. Reid, J. Rockstrom, H. Savinije and U. Svedin. 2002b. Resilience and sustainable development. pp. 37 *ICSU Series on Science for Sustainable Development*, International Council for Science, Paris, France
- Ford, E.D. 2000. *Scientific Method for Ecological Research*. Cambridge University Press, Cambridge, England
- Ford, E.D. and H. Ishii. 2001. The method of synthesis in ecology. *Oikos* 93: 153-160
- Foster, D.R. 2000. Conservation lessons and challenges from ecological history. *Forest History Today*: 2-11

- Frank, K.T. and D. Brickman. 2000. Allee effects and compensatory population dynamics within a stock complex. *Canadian Journal of Fisheries and Aquatic Sciences* 57: 513-517
- Frost, T.M., R.E. Ulanowics, S.C. Blumenshine, T.F.H. Allen, F. Taub and J. J.H. Rogers. 2001. Scaling issues in experimental ecology: freshwater ecosystems. pp. 253-280. *In*: R.H. Gardner, W.M. Kemp, V.S. Kennedy and J.E. Peterson (eds.) *Scaling Relations in Experimental Ecology*. Columbia University Press, New York
- Funtowicz, S.O., J. Martinez-Alier, G. Munda and J.R. Ravetz. 1999. Information tools for environmental policy under conditions of complexity. European Environment Agency, Environmental Issues Series Number 9
- Gelman, A., J.B. Carlin, H.S. Stern and D.B. Rubin. 1995. *Bayesian Data Analysis*. Chapman and Hall, London
- Gilbert, S. 2002. Impact of rainbow smelt (*Osmerus mordax*) introductions on walleye recruitment in northern Wisconsin lakes. Wisconsin Department of Natural Resources, Woodruff, Wisconsin USA
- Gliwicz, Z.M. 1980. Filtering rates, food size selection and feeding rates in cladocerans- another aspect of competition in filter-feeding zooplankton. pp. 282-291. *In*: W.C. Kerfoot (ed.) *Evolution and Ecology of Zooplankton Communities*. Univ. Press of New England, Hanover, NH
- Gregory, A.W. and B.E. Hansen. 1996. Tests for cointegration in models with regime and trend shifts. *Oxford Bulletin of Economics and Statistics* 58: 555-560

- Guckenheimer, J. and P. Holmes. 1983. *Nonlinear Oscillations, Dynamical Systems and Bifurcations of Vector Fields*. Springer-Verlag, New York
- Gunderson, L.H. and C.S. Holling (eds.). 2002. *Panarchy : Understanding Transformations in Human and Natural Systems*. Island Press, Washington, DC
- Gunderson, L.H., C.S. Holling and S.S. Light (eds.). 1995. *Barriers and Bridges to the Renewal of Ecosystems and Institutions*. Columbia University Press, New York
- Hamrin, S.F. and L. Persson. 1986. Asymmetrical competition between age classes as a factor causing population oscillations in an obligate planktivorous fish species. *Oikos* 47: 223-232
- Hansson, L.A. 1996. Algal recruitment from lake sediments in relation to grazing, sinking, and dominance patterns in the phytoplankton community. *Limnology and Oceanography* 41: 1312-1323
- Hansson, L.A., H. Annadötter, E. Bergman, S.F. Hamrin, E. Jeppeson, T. Kairesalo, E. Luokkanen, P.-A. Nilsson, M. Sondergaard and J. Strand. 1998. Biomanipulation as an application of food-chain theory: constraints, synthesis, and recommendations for temperate lakes. *Ecosystems* 1: 558-574
- Harremoës, P., D. Gee, M. MacGarvin, A. Stirling, J. Keys, B. Wynne and S.G.V. (eds). 2001. *Late Lessons from Early Warnings: The Precautionary Principle 1896-2000*. Environmental Issue Report #22, European Environmental Agency, Copenhagen, Denmark
- Heal, G. and B. Kriström. 2002. Uncertainty and climate change. *Environment and Resource Economics* 22: 3-39
- Heal, G.M. 1997. Discounting and climate change. *Climatic Change* 37: 335-43

- Higgins, P.A.T., M.D. Mastrandrea and S.H. Schneider. 2002. Dynamics of climate and ecosystem coupling: abrupt changes and multiple equilibria. *Philosophical Transactions of the Royal Society of London, Series B* 357: 647-655
- Hilborn, R. and C.J. Walters. 1992. *Quantitative Fisheries Stock Assessment: Choice, Dynamics, and Uncertainty*. Chapman and Hall, New York
- Hilborn, R. and M. Mangel. 1997. *The Ecological Detective: Confronting Models with Data*. Princeton University Press, Princeton, N.J.
- Hobbie, J., S. Carpenter, N. Grimm, J. Gosz and T. Seastedt. 2003. The U.S. Long-Term Ecological Research program. *BioScience* 53: 21-32
- Holling, C.S. 1973. Resilience and stability of ecological systems. *Annual Review of Ecological Systems* 4: 1-23
- Holling, C.S. (ed.). 1978. *Adaptive Environmental Assessment and Management*. John Wiley and Sons, New York
- Holling, C.S. and G.K. Meffe. 1996. Command and control and the pathology of natural resource management. *Conservation Biology* 10: 328-337
- Houser, J.N., S.R. Carpenter and J.J. Cole. 2000. Food web structure and nutrient enrichment: effects in sediment phosphorus retention in whole-lake experiments. *Canadian Journal of Fisheries and Aquatic Sciences* 57: 1524-1533
- Howarth, R.W., E.W. Boyer, W.J. Pabich and J.N. Galloway. 2002. Nitrogen use in the United States from 1961-2000 and potential future trends. *Ambio* 31: 88-96
- Howson, C. and P. Urbach. 1989. *Scientific Reasoning: The Bayesian Approach*. Open Court Publishing Company, La Salle, Illinois

- Hrabik, T.R., J.J. Magnuson and A.C. McLain. 1998. Predicting the effects of rainbow smelt on native fishes: evidence from long-term research on two lakes. *Canadian Journal of Fisheries and Aquatic Sciences* 55: 1364-71
- Hrbáček, J., M. Dvorakova, V. Korinek and L. Prochazkova. 1961. Demonstration of the effect of the fish stock on the species composition of zooplankton and the intensity of metabolism of the whole plankton assemblage. *Verh. Internat. Verein. Limnol.* 14: 192-5
- Hurley, J.P., D.E. Armstrong and A.L. DuVall. 1992. Historical interpretation of pigment stratigraphy in Lake Mendota sediments. pp. 49-68. *In: J.F. Kitchell (ed.) Food Web Management: A Case Study of Lake Mendota.* Springer-Verlag, New York, USA
- Hutchinson, G.E. 1961. The paradox of the plankton. *American Naturalist* 95: 137-145
- Ives, A.R. 1995. Predicting the response of populations to environmental change. *Ecology* 76: 926-41
- Ives, A.R., S.R. Carpenter and B. Dennis. 1999. Community interaction webs and zooplankton responses to planktivory manipulations. *Ecology* 80: 1405-21
- Ives, A.R., B. Dennis, K.L. Cottingham and S.R. Carpenter. 2003. Estimating community stability and ecological interactions from time-series data. *Ecological Monographs* 73: 301-330
- Jackson, D.D. and M. Matsu'ura. 1985. A Bayesian approach to nonlinear inversion. *Journal of Geophysical Research* 90: 581-591
- Jackson, J.B.C. and 18 co-authors. 2001. Historical overfishing and the recent collapse of coastal ecosystems. *Science* 293: 629-638

- Janssen, M.A. and S.R. Carpenter. 1999. Managing the Resilience of Lakes: A multi-agent modeling approach. *Conservation Ecology* 3: 15. Available on the internet: <http://www.consecol.org/vol3/iss2/art15>
- Janssen, M. and H.J.M. deVries. 1998. The battle of perspectives: a multi-agents model with adaptive responses to climate change. *Ecological Economics* 26: 43-65
- Janssen, M., B.H. Walker, J. Langridge and N. Abel. 2000. An adaptive agent model for analyzing co-evolution of management and policies in a complex rangeland system. *Ecological Modeling* 31: 249-268
- Jansson, A., C. Folke, J. Rockström and M. Falkenmark. 1999. Linking freshwater flows and ecosystem services appropriated by people: The case of the Baltic Sea drainage basin. *Ecosystems* 2: 351-366
- Jeppeson, E., M. Sondergaard, M. Sondergaard and K. Christofferson (eds.). 1998. *The Structuring Role of Submerged Macrophytes in Lakes*. Springer-Verlag, Berlin
- Kalff, J. 2002. *Limnology*. Prentice Hall, Upper Saddle River, N.J., USA
- Karl, D.M. 1999. A sea of change: biogeochemical variability in the North Pacific subtropical gyre. *Ecosystems* 2: 181-214
- Kendall, B.E., C.J. Briggs, W.W. Murdoch, P. Turchin, S.P. Ellner, E. McCauley, R.M. Nisbet and S.N. Wood. 1999. Why do populations cycle? A synthesis of statistical and mechanistic modeling approaches. *Ecology* 80: 1789-1805
- Kitchell, J.F. (ed.). 1992. *Food Web Management: A Case Study of Lake Mendota*. Springer-Verlag, New York

- Kitchell, J.F. and S.R. Carpenter. 1987. Piscivores, planktivores, fossils, and phorbins. pp. 132-46. *In: W.C. Kerfoot and A. Sih (eds.) Predation: Direct and Indirect Impacts on Aquatic Communities*, University Press of New England, Hanover, NH
- Kitchell, J.F. and S.R. Carpenter. 1993. Variability in lake ecosystems: complex responses by the apical predator. pp. 111-124. *In: M. McDonnell and S. Pickett (eds.) Humans as Components of Ecosystems*. Springer-Verlag, New York
- Kitchell, J.F. and P.R. Sanford. 1992. Paleolimnological evidence of food web dynamics in Lake Mendota. pp. 31-48. *In: J.F. Kitchell (ed.) Food Web Management: A Case Study of Lake Mendota*. Springer-Verlag, New York, USA
- Kolar, C. and D.M. Lodge. 2000. Freshwater nonindigenous species: interactions with other global changes. pp. 3-30. *In: H.A. Mooney and R.J. Hobbs (eds.) Invasive Species in a Changing World*. Island Press, Washington D.C.
- Kuznetsov, Y.A. 1995. *Elements of Applied Bifurcation Theory*. Springer-Verlag, New York
- Lamon, E.C., S.R. Carpenter and C.A. Stow. 1998. Forecasting PCB concentrations in five species of Lake Michigan salmonids: a dynamic linear model approach. *Ecological Applications* 8: 659-668
- Larsen, D.P., J.V. Sickle, K.W. Malueg and D.P. Smith. 1979. The effect of wastewater phosphorus removal on Shagawa Lake, Minnesota: Phosphorus supplies, lake phosphorus, and chlorophyll a. *Water Research* 13: 1259-1272

- Larsen, D.P., D. W. Schults and K.W. Malueg. 1981. Summer internal phosphorus supplies in Shagawa Lake, Minnesota. *Limnology and Oceanography* 26: 740-753
- Lathrop, R.C. 1992. Lake Mendota and the Yahara River Chain. *In: J.F. Kitchell (ed.) Food Web Management: A Case Study of Lake Mendota*. Springer-Verlag, New York
- Lathrop, R.C. and S.R. Carpenter. 1992. Phytoplankton and their relationship to nutrients. pp. 97-126. *In: J.F. Kitchell (ed.) Food Web Management: A Case Study of Lake Mendota*. Springer-Verlag, New York
- Lathrop, R.C., S.R. Carpenter, C.A. Stow, P.A. Soranno and J.C. Panuska. 1998. Phosphorus loading reductions needed to control blue-green algal blooms in Lake Mendota. *Canadian Journal of Fisheries and Aquatic Sciences* 55: 1169-1178
- Lathrop, R.C., B.M. Johnson, T.B. Johnson, M.T. Vogelsang, S.R. Carpenter, T.R. Hrabik, J.F. Kitchell, J.J. Magnuson, L.G. Rudstam and R.S. Stewart. 2002. Stocking piscivores to improve fishing and water clarity: a synthesis of the Lake Mendota biomanipulation project. *Freshwater Biology*: 47: 2410-2424
- Leavitt, P.R., S.R. Carpenter and J.F. Kitchell. 1989. Whole-lake experiments: the annual record of fossil pigments and zooplankton. *Limnology and Oceanography* 34: 700-717
- Levin, S.A. 1999. *Fragile Dominion: Complexity and the Commons*. Perseus Books, Reading, Massachusetts

- Lewontin, R.C. 1969. The meaning of stability. In *Diversity and Stability in Ecological Systems*. Brookhaven Symposia in Biology 22: 13-24
- Liermann, M. and R. Hilborn. 1997. Depensation in fish stocks: a hierarchic Bayesian meta-analysis. *Canadian Journal of Fisheries and Aquatic Sciences* 54: 1976-84
- Likens, G.E. 1985. An Experimental Approach for the Study of Ecosystems. *Journal of Ecology* 73: 381-396
- Likens, G.E. (ed.). 1989. *Long-Term Studies in Ecology*. Springer-Verlag, New York
- Limburg, K.E., R.V. O'Neill, R. Costanza and S. Farber. 2002. Complex systems and valuation. *Ecological Economics* 41: 409-420
- Lindeman, R.L. 1942. The trophic-dynamic aspect of ecology. *Ecology* 23: 399-418
- Lindley, D.V. 1985. *Making Decisions*. Wiley, New York
- Lodge, D.M. 2001. Lakes. pp. 277-313. *In*: F.S. Chapin III, O.E. Sala and E. Huber-Sannwald (eds.) *Global Biodiversity in a Changing Environment: Scenarios for the 21st Century*. Springer-Verlag, NY
- Lodge, D.M., C.A. Taylor, D.M. Holdich and J. Skurdal. 2000. Nonindigenous crayfishes threaten North American freshwater biodiversity: lessons from Europe. *Fisheries* 25: 7-20
- Ludwig, D. 2001. The era of management is over. *Ecosystems* 4: 758-764
- Ludwig, D., B. Walker and C.S. Holling. 1997. Sustainability, stability, and resilience. *Conservation Ecology*. Available on the internet:  
<http://www.consecol.org/vol1/iss/art7>
- Ludwig, D., M. Mangel and B. Haddad. 2001. Ecology, conservation, and public policy. *Annual Review of Ecology and Systematics* 32: 481-517

- Ludwig, D., S. Carpenter and W. Brock. 2003. Optimal phosphorus loading for a potentially eutrophic lake. *Ecological Applications*: in press
- Magnuson, J.J. and T.K. Kratz (eds.). 2004. *Lakes in the Landscape*. Oxford University Press, London
- Mangel, M. and C.W. Clark. 1988. *Dynamic Modeling in Behavioral Ecology*. Princeton University Press, Princeton, New Jersey
- Mantua, N.J., S.R. Hare, Y. Zhang, J.M. Wallace and R.C. Francis. 1997. A Pacific interdecadal climate oscillation with impacts on salmon production. *Bulletin of the American Meteorological Society* 78: 1069-1079
- Martin, L. 1965. *The Physical Geography of Wisconsin*. University of Wisconsin Press, Madison, WI
- May, R.M. 1973. *Stability and Complexity in Model Ecosystems*. Princeton University Press, Princeton, NJ
- Mazumder, A., W.D. Taylor, D.J. McQueen and D.R.S. Lean. 1990. Effects of fish and plankton on lake temperature and mixing depth. *Science* 247: 312-315
- McQueen, D.J., M.R.S. Johannes, J.R. Post, T.J. Stewart and D.R.S. Lean. 1989. Bottom-up and top-down impacts on freshwater pelagic community structure. *Ecological Monographs* 59: 289-309
- Minobe, S. 1997. A 50-70 year climatic oscillation over the North Pacific and North America. *Geophysical Research Letters* 24: 683-686
- Mittelbach, G.G., A.M. Turner, D.J. Hall, J.E. Rettig and C.W. Osenberg. 1995. Perturbation and resilience-- a long-term, whole-lake study of predator extinction and reintroduction. *Ecology* 76: 2347-2360

- Mollenhoff, D.V. 1982. Madison: A History of the Formative Years. Kendall-Hunt, Dubuque, Iowa, U.S.A.
- Mortimer, C.H. 1941. The exchange of dissolved substances between mud and water in lakes (parts i and ii). *Journal of Ecology* 29: 280-89
- Mortimer, C.H. 1942. The exchange of dissolved substances between mud and water in lakes (parts iii and iv). *Journal of Ecology* 30: 147-201
- Murray, R.C. 1956. Recent sediments of three Wisconsin lakes. *Bulletin of the Geological Society of America* 67: 883-910
- Myers, R.A., N.J. Barrowman, J.A. Hutchings and A.A. Rosenberg. 1995. Population dynamics of exploited fish stocks at low population levels. *Science* 269: 1106-1108
- Naiman, R.J., R.E. Bilby, D.E. Schindler and J.M. Helfield. 2002. Pacific Salmon, Nutrients, and the Dynamics of Freshwater and Riparian Ecosystems. *Ecosystems* 5: 399-417
- National Research Council. 1992. Restoration of aquatic ecosystems: science, technology and public policy. National Academy Press, Washington, D.C.
- Nelder, J.A. and R. Mead. 1964. A simplex method for function minimization. *Computer Journal* 7: 308-313
- Nürnberg, G.K. 1984. The prediction of internal phosphorus load in lakes with anoxic hypolimnia. *Limnology and Oceanography* 29: 111-124
- Nürnberg, G.K. 1995. Quantifying anoxia in lakes. *Limnology and Oceanography* 40: 1100-1111

- Olson, M.H., S.R. Carpenter, P. Cunningham, S. Gafny, B.R. Herwig, N.P. Nibbelink, T. Pellett, C. Storlie, A.S. Trebitz and K.A. Wilson. 1998. Managing macrophytes to improve fish growth: A multi-lake experiment. *Fisheries* 23: 6-12
- Osborne, L.L. and D.A. Kovacic. 1993. Riparian vegetated buffer strips in water-quality restoration and stream management. *Freshwater Biology* 29: 243-58
- Ostermark, R., R. Hoglund and H. Saxen. 1999. Estimating system response to a regime shift - some evidence on international asset pricing. *Kybernetes* 28: 732-752
- Ostrom, E., J. Burger, C.B. Field, R.B. Norgaard and D. Policansky. 1999. Revisiting the commons: local lessons, global challenges. *Science* 284: 278-282
- Pace, M.L. 1984. Zooplankton community structure, but not biomass, influences the phosphorus-chlorophyll *a* relationship. *Canadian Journal of Fisheries and Aquatic Sciences* 41: 1089-96
- Pace, M.L. 2001. Getting it right and wrong: extrapolations across experimental scales. *In: R.H. Gardner, W.M. Kemp, V.S. Kennedy and J.E. Petersen (eds.) Scaling Relations in Experimental Ecology*. Columbia University Press, New York
- Pace, M.L. and P.M. Groffman (eds.). 1998. *Successes, Limitations, and Frontiers in Ecosystem Science*. Springer, New York
- Pace, M.L., J.J. Cole, S.R. Carpenter and J.F. Kitchell. 1999. Trophic cascades revealed in diverse ecosystems. *Trends in Ecology and Evolution* 14: 483-488
- Paine, R.T. 1980. Food webs, linkage interaction strength, and community structure. *Journal of Animal Ecology* 49: 667-685

- Paine, R.T. 1994. Marine Rocky Shores and Community Ecology: An Experimentalist's Perspective. Ecology Institute, Oldendorf/Luhe, Germany
- Pascual, M.A., P. Kareiva and R. Hilborn. 1997. The influence of model structure on conclusions about the viability and harvesting of Serengeti wildebeest. Conservation Biology 11: 966-976
- Peters, R.H. 1983. The Ecological Implications of Body Size. Cambridge University Press, Cambridge
- Peters, R.H. and J.A. Downing. 1984. Empirical analysis of zooplankton filtering and feeding rates. Limnology and Oceanography 29: 763-84
- Peterson, G.D. 2002a. Contagious disturbance, ecological memory, and the emergence of landscape pattern. Ecosystems 5: 329-338
- Peterson, G.D. 2002b. Estimating resilience across landscapes. Conservation Ecology 6: 17 <http://www.consecol.org/vol6/iss1/art17>
- Peterson, G.D., C.R. Allen and C.S. Holling. 1998. Ecological resilience, biodiversity, and scale. Ecosystems 1: 6-18
- Peterson, G.D., S.R. Carpenter and W.A. Brock. 2003. Uncertainty and management of multi-state ecosystems: an apparently rational route to collapse. Ecology: In press
- Petraitis, P.S. and R.E. Latham. 1999. The importance of scale in testing the origins of alternative community states. Ecology 80: 429-442
- Pickett, S.T.A. 1999. The culture of synthesis: habits of mind in novel ecological integration. Oikos 87: 479-487

- Pickett, S.T.A., J. Kolasa and C.G. Jones. 1994. Ecological Understanding. Academic Press, San Diego, CA
- Pimm, S.L. 1984. The complexity and stability of ecosystems. *Nature* 307: 321-326
- Pole, A., M. West and J. Harrison. 1994. Applied Bayesian Forecasting and Time Series Analysis. Chapman and Hall, New York
- Post, D.M., S.R. Carpenter, D.L. Christensen, K.L. Cottingham, J.F. Kitchell and D.E. Schindler. 1997. Seasonal effects of variable recruitment of a dominant piscivore on pelagic food web structure. *Limnology and Oceanography* 42: 722-29
- Post, J.R., M. Sullivan, S.P. Cox, N.P. Lester, C.J. Walters, E.A. Parkinson, A.J. Paul, L. Jackson and B.J. Shuter. 2002. Canada's recreational fisheries: the invisible collapse? *Fisheries* 27: 6-17
- Postel, S. 1997. *The Last Oasis*. W.W. Norton and Company, New York, USA
- Postel, S. and S.R. Carpenter. 1997. Freshwater ecosystem services. pp. 195-214. *In*: G. Daily (ed.) *Nature's Services*. Island Press, Washington, D.C.
- Pratt, J.W., H. Raiffa and R. Schlaifer. 1995. *Introduction to Statistical Decision Theory*. MIT press, Cambridge, Massachusetts
- Press, W.H., B.P. Flannery, S.A. Teukolsky and W.T. Vetterling. 1989. *Numerical Recipes in C*. Cambridge University Press, London
- Raftery, A.E., D. Madigan and J.A. Hoeting. 1997. Bayesian model averaging for linear regression models. *Journal of the American Statistical Association* 92: 179-191
- Rahmstorf, S. 1997. Bifurcations of the Atlantic thermohaline circulation in response to changes in the hydrological cycle. *Nature* 378: 165-167

- Rasmussen, P.W., D.M. Heisey, E.V. Nordheim and T.M. Frost. 1993. Time-series intervention analysis: unreplicated large-scale experiments. *In*: S.M. Scheiner and J. Gurevitch (eds.) Design and Analysis of Ecological Experiments. Chapman and Hall, New York, USA
- Rastetter, E.B. 2003. The Collision of Hypotheses: What Can Be Learned from a Comparisons of Ecosystem Models? *In*: C.D. Canham, J.J. Cole and W.K. Lanenroth (eds.) The Role of Quantitative Models in Observation, Synthesis and Prediction. Princeton University Press, In press
- Reckhow, K.H. 1979. Empirical lake models for phosphorus: development, applications, limitations and uncertainties. *In*: D. Scavia and A. Robertson (eds.) Perspectives on Ecosystem Modeling. Ann Arbor Science, Ann Arbor, Michigan
- Reckhow, K.H. and S.C. Chapra. 1983. Engineering Approaches for Lake Management, Butterworth, Boston
- Redman, C.L. 1999. Human Impact on Ancient Environments. University of Arizona Press, Tucson, Arizona
- Reed-Andersen, T. and S.R. Carpenter. 2002. Comparisons of P yield, riparian buffer strips, and land cover in six agricultural watersheds. *Ecosystems* 5: 568-577
- Reed-Andersen, T., S.R. Carpenter and R.C. Lathrop. 2000. Phosphorus flow in a watershed-lake ecosystem. *Ecosystems* 3: 561-573
- Reynolds, C.S. 1994. The ecological basis for the successful biomanipulation of aquatic communities. *Archiv für Hydrobiologie* 130: 1-33
- Reynolds, C.S. 1997. Vegetation Processes in the Pelagic: A Model for Ecosystem Theory. Ecology Institute, Oldendorf/Luhe, Germany

- Ricker, W.F. 1963. Big effects from small causes: two examples from fish population dynamics. *Journal Fisheries Research Board of Canada* 20: 257-264
- Rigler, F.H. and R.H. Peters. 1995. *Science and Limnology*. Ecology Institute, Oldendorf/Luhe, Germany
- Rinaldi, S. and M. Scheffer. 2000. Geometric analysis of ecological processes with slow and fast variables. *Ecosystems* 3: 507-521
- Rosenweig, M.L. 1971. Paradox of enrichment: destabilization of exploitation ecosystems in ecological time. *Science* 171: 385-387
- Ross, A.G.P., Y.S. Li, A.C. Sleigh and D.P. McManus. 1997. Schistosomiasis control in the People's Republic of China. *Parasitology Today* 13: 152-155
- Rudstam, L.G., R.C. Lathrop and S.R. Carpenter. 1993. The rise and fall of a dominant planktivore: direct and indirect effects on zooplankton. *Ecology* 74: 301-19
- Runge, M.C. and F.A. Johnson. 2002. The importance of functional form in optimal control solutions of problems in population dynamics. *Ecology* 83: 1357-1371
- Sala, O.E., R.B. Jackson, H.A. Mooney and R.W. Howarth (eds.). 2000. *Methods in Ecosystem Science*. Springer, New York. xxii, 421 pp
- Sanderson, B.L. 1998. Factors regulating water clarity in northern Wisconsin lakes. Ph.D., University of Wisconsin-Madison
- Sanderson, B.L., T.R. Hrabik, J.J. Magnuson and D.M. Post. 1999. Cyclic dynamics of a yellow perch (*Perca flavescens*) population in an oligotrophic lake: evidence for the role of intraspecific interactions. *Canadian Journal of Fisheries and Aquatic Sciences* 56: 1534-42

- Sas, H. 1989. Lake Restoration by Reduction of Nutrient Loading: Expectations, Experiences, Extrapolations. Sankt Augustin : Academia Verlag Richarz
- Scavia, D. and A. Robertson (eds.). 1979. Perspectives on Ecosystem Modeling. Ann Arbor Science, Ann Arbor, Michigan
- Scheffer, M. 1997. The Ecology of Shallow Lakes. Chapman and Hall, London, U.K.
- Scheffer, M. 1999. Searching explanations of nature in the mirror world of math. Conservation Ecology 3: 11. Available on the internet:  
<http://www.consecol.org/vol3/iss2/art11>
- Scheffer, M. and J. Beets. 1994. Ecological models and the pitfalls of causality. Hydrobiologia 276: 115-124
- Scheffer, M. and S.R. Carpenter. 2003. Regime shifts in ecosystems: linking theory to observation. Trends in Ecology and Evolution: In press
- Scheffer, M., S. Rinaldi, Y.A. Kuznetsov and E.H. vanNes. 1997. Seasonal dynamics of *Daphnia* and algae explained as a periodically forced predator-prey system. Oikos 80: 519-532
- Scheffer, M., W.A. Brock and F. Westley. 2000a. Socioeconomic mechanisms preventing optimum use of ecosystem services: an interdisciplinary theoretical analysis. Ecosystems 3: 451-471
- Scheffer, M., S. Rinaldi and Y.A. Kuznetsov. 2000b. Effects of fish on plankton dynamics: a theoretical analysis. Journal of Fisheries and Aquatic Sciences 57: 1208-1219

- Scheffer, M., S.R. Carpenter, J.A. Foley, C. Folke and B. Walker. 2001a. Stochastic events can trigger large state shifts in ecosystems with reduced resilience. *Nature* 413: 591-96
- Scheffer, M., D. Straile, E.H. van Nes and H. Houser. 2001b. Climatic warming causes regime shifts in lake food webs. *Limnology and Oceanography* 46: 1780-1783
- Schindler, D.E. and L.A. Eby. 1997. Stoichiometry of fishes and their prey: implications for nutrient recycling. *Ecology* 78: 1816-31
- Schindler, D.E. and M.D. Scheuerell. 2002. Habitat coupling in lake ecosystems. *Oikos* 98: 177-189
- Schindler, D.E., S.R. Carpenter, K.L. Cottingham, X. He, J.R. Hodgson, J.F. Kitchell and P.A. Soranno. 1996. Food web structure and littoral zone coupling to pelagic trophic cascades. pp. 96-105. *In*: G.A. Polis and K.O. Winemiller (eds.) *Food webs: Integration of Patterns and Dynamics*. Chapman & Hall, New York
- Schindler, D.E., S.I. Geib and M.R. Williams. 2000. Patterns of fish growth along a residential development gradient in North Temperate lakes. *Ecosystems* 3: 229-237
- Schindler, D.W. 1977. Evolution of phosphorus limitation in lakes. *Science* 195: 260-62
- Schindler, D.W., E.J. Fee and T. Rusczyński. 1978. Phosphorus input and its consequences for phytoplankton standing crop and production in the Experimental Lakes Area and in similar lakes. *Journal Fisheries Research Board of Canada* 35: 190-96
- Schindler, D.W. 1998. Replication versus realism: the need for ecosystem-scale experiments. *Ecosystems* 1: 323-34

- Shapiro, J., V. Lamarra and M. Lynch. 1975. Biomanipulation: an ecosystem approach to lake restoration. *In*: P.L. Brezonik and J.L. Fox (eds.) Proceedings of a Symposium on Water Quality Management Through Biological Control. University of Florida, Gainesville
- Shiklomanov, I.A. 1998. World Water Resources: A New Assessment and Appraisal for the 21st Century, United Nations Educational, Scientific and Cultural Organization, Paris, France
- Shiomoto, A., K. Tadokoro, K. Nagasawa and U. Ishida. 1997. Trophic relations in the subarctic North Pacific ecosystem: possible feeding effects from pink salmon. *Marine Ecology Progress Series* 150: 75-85
- Smith, V.H. 1998. Cultural eutrophication of inland, estuarine and coastal waters. pp. 7-49. *In*: M.L. Pace and P.M. Groffman (eds.) *Successes, Limitations and Frontiers of Ecosystem Science*. Springer-Verlag, New York
- Soranno, P.A., L. Hubler and S.R. Carpenter. 1996. Phosphorus loads to surface waters: a simple model to account for spatial pattern of land use. *Ecological Applications* 6: 865-78
- Soranno, P.A., S.R. Carpenter and R.C. Lathrop. 1997. Internal phosphorus loading in Lake Mendota: response to external loads and weather. *Canadian Journal of Fisheries and Aquatic Sciences* 54: 1883-93
- Stauffer, R.E. 1974. Thermocline migration - algal bloom relationships in stratified lakes. Ph.D. thesis, University of Wisconsin, Madison, Wisconsin, U.S.A.
- Steele, J.H. 1996. Regime shifts in fisheries management. *Fisheries Research* 25: 19-

- Steele, J.H. 1998. Regime shifts in marine ecosystems. *Ecological Applications* 8: S33-S36
- Stephens, P.A. and W.J. Sutherland. 1999. Consequences of the Allee effect for behaviour, ecology and conservation. *Trends in Ecology and Evolution* 14: 401-405
- Sterner, R.W. and J.J. Elser. 2002. *Ecological Stoichiometry*. Princeton University Press, Princeton, New Jersey
- Sterner, R.W., J.J. Elser and D.O. Hessen. 1992. Stoichiometric relationships among producers, consumers and nutrient cycling in pelagic ecosystems. *Biogeochemistry* 17: 49-67
- Stow, C.A., S.R. Carpenter and R.C. Lathrop. 1997. A Bayesian observation error model to predict cyanobacterial biovolume from spring total phosphorus in Lake Mendota, Wisconsin. *Canadian Journal of Fisheries and Aquatic Sciences* 54: 464-473
- Strong, D.R., A.V. Whipple, A.L. Child and B. Dennis. 1999. Model selection for a subterranean trophic cascade: root-feeding caterpillars and entomopathogenic nematodes. *Ecology* 80: 2750-2761
- Taylor, K. 1999. Rapid climate change. *American Scientist* 87: 320-327
- Tilman, D. 1982. *Resource Competition and Community Structure*. Princeton University Press, Princeton, New Jersey
- Turner, M.G. and V.H. Dale. 1998. Comparing large, infrequent disturbances: what have we learned? *Ecosystems* 1: 493-496

- Turner, M.G., R.H. Gardner and R.V. O'Neill. 2001. *Landscape Ecology in Theory and Practice*. Springer-Verlag, New York
- Vallery-Radot, R. 1927. *The Life of Pasteur*. *In*: E.M. Beck (ed.) *Familiar Quotations*. Little, Brown and Company, Boston, Massachusetts
- Van Cappellen, P. and E. D. Ingall. 1994. Benthic phosphorus regeneration, net primary production, and ocean anoxia: A model of the coupled marine biogeochemical cycles of carbon and phosphorus. *Paleoceanography* 9: 677-692
- Vanni, M.J. and C.D. Layne. 1997. Nutrient recycling and herbivory as mechanisms in the "top-down" effect of fish on algae in lakes. *Ecology* 78: 21-40
- Vitousek, P.M. and R.W. Howarth. 1991. Nitrogen limitation on land and in the sea - how can it occur? *Biogeochemistry* 13: 87-115
- Vitousek, P.M., J.D. Aber, R.W. Howarth, G.E. Likens, P.A. Matson, D.W. Schindler, W.H. Schlesinger and D.G. Tilman. 1997a. Human alteration of the global nitrogen cycle: sources and consequences. *Ecological Applications* 7: 737-750
- Vitousek, P.M., H.A. Mooney, J. Lubchenco and J.M. Melillo. 1997b. Human domination of Earth's ecosystems. *Science* 277: 494-499
- Walters, C. 1986. *Adaptive Management of Renewable Resources*. Macmillan, New York
- Walters, C. 1997. Challenges in adaptive management of riparian and coastal ecosystems. *Conservation Ecology* 1: 1. Available on the internet: <http://www.consecol.org/vol1/iss2/art1>

- Walters, C. and J.F. Kitchell. 2001. Cultivation/depensation effects on juvenile survival and recruitment: implications for the theory of fishing. *Canadian Journal of Fisheries and Aquatic Sciences* 58: 39-50
- Welch, E.B., D.E. Spyridakis, J. Schuster and R.R. Horner. 1986. Declining lake sediment phosphorus release and oxygen deficit following wastewater diversion. *Journal of the Water Pollution Control Federation* 58: 92-96
- Weller, D.E., Jordan, T.E. and Correll, D.L. 1998. Heuristic models for material discharge from landscape with riparian buffers. *Ecological Applications* 8: 1156-1169
- West, M. and J. Harrison. 1989. *Bayesian Forecasting and Dynamic Models*. Springer Verlag, New York
- Westley, F., S.R. Carpenter, W.A. Brock, C.S. Holling and L.H. Gunderson. 2002. Why systems of people and nature are not just social and ecological systems. pp. 103-120. *In*: L.H. Gunderson and C.S. Holling (eds.) *Panarchy : Understanding Transformations in Human and Natural Systems*. Island Press, Washington, DC
- Wieland, V. 2000. Learning-by-doing and the value of optimal experimentation. *Journal of Economic Dynamics and Control* 24: 501-534
- Wilson, K.A. 2002. Impacts of the invasive rusty crayfish (*Orconectes rusticus*) in northern Wisconsin lakes. Ph.D., University of Wisconsin-Madison
- Wilson, M.A. and S.R. Carpenter. 1999. Economic valuation of freshwater ecosystem services in the United States, 1977-1997. *Ecological Applications* 9: 772-783
- World Water Council. 2002. *World Water Vision*, Earthscan Publications, London, England

Yorque, R., B. Walker, C.S. Holling, L.H. Gunderson and C. Folke. 2002. Toward an integrative synthesis. *In*: L.H. Gunderson and C.S. Holling (eds.) *Panarchy : understanding transformations in human and natural systems*. Island Press, Washington, DC

Zaitsev, Y. and V. Mamaev. 1997. *Marine Biological Diversity in the Black Sea: A Study of Change and Decline*. United Nations Publications, New York