Citation	System	Overview
Beisner et al 2003	Freshwater plankton	Direct and indirect effects of invasive fish on lake plankton
Carpenter et al 2005	Freshwater plankton	Carbon flow in lake experiments
Duffy 2007	Freshwater plankton	Experimental manipulation of bluegill predator to elucidate disease control pathways in lake zooplankton
Fischer et al 2001	Freshwater plankton	Compensatory dynamics of plankton in experimental pH manipulations
Hall et al 2009	Freshwater plankton	Dynamics of fungal disease in lake zooplankton
Hampton and Schindler 2006	Freshwater plankton	Comparing MAR results given alternative sampling scenarios for Lake Washington plankton
Hampton et al 2006	Freshwater plankton	Comparing Lake Washington plankton food webs derived from historical lab and field studies to those derived from MAR analysis
Hampton et al 2008	Freshwater plankton	Comparing strength of biotic and abiotic drivers on Lake Baikal plankton
Huber and Gaedke 2006	Freshwater plankton	Direct and indirect drivers of Bodensee phytoplankton and ciliates
Ives 1995	Theoretical	Explorations of MAR for identifying external and biotic drivers of population dynamics
Ives et al 1999	Freshwater plankton	Direct and indirect effects of experimental fish manipulations on lake plankton
Ives et al 2003	Freshwater plankton	Explorations of MAR applications in ecology, illustrated with plankton community data in experimental fish manipulations
Klug and Cottingham 2001	Freshwater plankton	Trophic pathways for phytoplankton response to experimental lake carbon and nutrient manipulations

Appendix. Ecological applications of multivariate autoregressive models to the analysis of community time-series data.

Klug et al 2000	Freshwater plankton	Identifying interactions that lead to compensatory dynamics in experimental pH manipulations
Lindegren et al 2009	Fisheries	State-space MAR used to analyze Baltic cod drivers, and explore alternative management scenarios
Mutshinda et al 2009	Marine crustaceans, moths, birds, rodents	Comparing strength of biotic and abiotic drivers across ecosystems
Neubert et al 2009	Experimental flour beetle	Detecting reactivity is illustrated using experimental flour beetle data
Ripa and Ranta 2007	Theoretical	Theoretical examination of the roles of environment and species interactions in producing population synchronies
Vik et al 2008	Lynx-hare	Comparing interspecific to intraspecific interaction strengths for predator-prey system
Ward et al. 2010	Sea lions	Inference of sub-population structure in the Gulf of California from time series at multiple sites
Yamamura et al 2006	Insect	Environmental drivers of rice paddy insect abundance, exploration of future dynamics based on climate change scenarios

Beisner, B. E., A. R. Ives, and S. R. Carpenter. 2003. The effects of an exotic fish invasion on the prey communities of two lakes. Journal of Animal Ecology 72:331–342.
Carpenter, S. R., J. J. Cole, M. L. Pace, and others. 2005. Ecosystem subsidies: Terrestrial

support of aquatic food webs from C-13 addition to contrasting lakes. Ecology 86:2737–2750.
Duffy, M. A. 2007. Selective predation, parasitism, and trophic cascades in a bluegill-*Daphnia*-parasite system. Oecologia 153:453–460.

Fischer, J. M., T. M. Frost, and A. R. Ives. 2001. Compensatory dynamics in zooplankton community responses to acidification: measurement and mechanisms. Ecological Applications

5

11:1060-1072.

15

20

- Hall, S. R., C. R. Becker, J. L. Simonis, and others. 2009. Friendly competition: evidence for a dilution effect among competitors in a planktonic host-parasite system. Ecology 90:791–801.
 Hampton, S. E., and D. E. Schindler. 2006. Empirical evaluation of observation scale effects in
- community time series. Oikos 113:424–439.
 Hampton, S. E., L. R. Izmest'eva, M. V. Moore, and others. 2008. Sixty years of environmental change in the world's largest freshwater lake Lake Baikal, Siberia. Global Change Biology 14:1947-1958.

Hampton, S. E., M. D. Scheuerell, and D. E. Schindler. 2006. Coalescence in the Lake

- 10 Washington story: Interaction strengths in a planktonic food web. Limnology and Oceanography 51:2042–2051.
 - Ives, A. R. 1995. Predicting the response of populations to environmental change. Ecology 76:926–941.
 - Ives, A. R., S. R. Carpenter, and B. Dennis. 1999. Community interaction webs and zooplankton responses to planktivory manipulations. Ecology 80:1405–1421.
 - 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.

Huber, V., and U. Gaedke. 2006. The role of predation for seasonal variability patterns among phytoplankton and ciliates. Oikos 114:265–276.

Klug, J. L., and K. L. Cottingham. 2001. Interactions among environmental drivers: Community responses to changing nutrients and dissolved organic carbon. Ecology 82:3390–3403.
Klug, J. L., J. M. Fischer, A. R. Ives, and B. Dennis. 2000. Compensatory dynamics in

planktonic community responses to pH perturbations. Ecology 81:387–398.

- Lindegren, M., C. Mollmann, A. Nielsen, and N. C. Stenseth. 2009. Preventing the collapse of the Baltic cod stock through an ecosystem-based management approach. Proceedings of the National Academy of Sciences 106:14722-14727.
- Mutshinda, C. M., R. B. O'Hara, and I. P. Woiwod. 2009. What drives community dynamics? Proceedings of the Royal Society of London. Series B: Biological Sciences 276:2923–2929. Neubert, M. G., H. Caswell, A. R. Solow. 2009. Detecting reactivity. Ecology 90:2683–2688. Ripa, J., and E. Ranta. 2007. Biological filtering of correlated environments: towards a generalised Moran theorem. Oikos 116:783–792.
- 10 Vik, J. O., C. N. Brinch, S. Boutin, and N. C. Stenseth. 2008. Interlinking hare and lynx dynamics using a century's worth of annual data. Population Ecology 50:267–274.
 - Ward, E. J., H. Chirakkal, M. González-Suárez, and others. 2010. Inferring spatial structure from time-series data: using multivariate state-space models to detect metapopulation structure of California sea lions in the Gulf of California, Mexico. Journal of Applied Ecology 47:47–56.
- 15 Yamamura, K., M. Yokozawa, M. Nishimori, Y. Ueda, and T. Yokosuka. 2006. How to analyze long-term insect population dynamics under climate change: 50-year data of three insect pests in paddy fields. Population Ecology 48:31–48.