

## MAR 530 Spring 2015: Discussion readings

- Arkema, K. K., Abramson, S. C., & Dewsbury, B. M. (2006). Marine ecosystem-based management: from characterization to implementation. *Frontiers in Ecology and the Environment*, 4(10), 525-532.
- Berkes, F. (2012). Implementing ecosystem- based management: evolution or revolution?. *Fish and Fisheries*, 13(4), 465-476.
- Botsford, L.W., J.C. Castilla, and C.H. Peterson. 1997. The management of fisheries and ecosystems. *Science*, 277: 509-515.
- Branch, T. A., Hilborn, R., Haynie, A. C., Fay, G., Flynn, L., Griffiths, J., ... & Young, M. (2006). Fleet dynamics and fishermen behavior: lessons for fisheries managers. *Canadian Journal of Fisheries and Aquatic Sciences*, 63(7), 1647-1668.
- Browman HI, Stergiou KI (eds) (2004) Perspectives on ecosystem-based approaches to the management of marine resources. *Mar Ecol Prog Ser* 274:269–303
- Bunnefeld, N., Hoshino, E., & Milner-Gulland, E. J. (2011). Management strategy evaluation: a powerful tool for conservation?. *Trends in ecology & evolution*, 26(9), 441-447.
- Caddy, J.F. 1999. Fisheries management in the twenty-first century: will new paradigms apply? *Reviews in Fish Biology and Fisheries*, 9: 1-43.
- Christensen, N. L., Bartuska, A. M., Brown, J. H., Carpenter, S., D'Antonio, C., Francis, R., ... & Woodmansee, R. G. (1996). The report of the Ecological Society of America committee on the scientific basis for ecosystem management. *Ecological applications*, 6(3), 665-691.
- Collie, J. S., Botsford, L. W., Hastings, A., Kaplan, I. C., Largier, J. L., Livingston, P. A., ... & Werner, F. E. (2014). Ecosystem models for fisheries management: finding the sweet spot. *Fish and Fisheries*. DOI: 10.1111/faf.12093
- Costanza, R., Andrade, F., Antunes, P., Van Den Belt, M., Boersma, D., Boesch, D. F., ... & Young, M. (1998). Principles for sustainable governance of the oceans. *Science*, 281(5374), 198-199.
- de la Mare, WK. (2005). Marine ecosystem-based management as a hierarchical control system. *Marine Policy*, 29(1), 57-68.
- Edgar, G. J., Stuart-Smith, R. D., Willis, T. J., Kininmonth, S., Baker, S. C., Banks, S., ... & Thomson, R. J. (2014). Global conservation outcomes depend on marine protected areas with five key features. *Nature*, 506(7487), 216-220.
- Endter-Wada, J., Blahna, D., Krannich, R., & Brunson, M. (1998). A framework for understanding social science contributions to ecosystem management. *Ecological Applications*, 8(3), 891-904.
- Fletcher, W. J. (2005). The application of qualitative risk assessment methodology to prioritize issues for fisheries management. *ICES Journal of Marine Science: Journal du Conseil*, 62(8), 1576-1587.
- Francis, R. C., Hixon, M. A., Clarke, M. E., Murawski, S. A., & Ralston, S. (2007). Ten commandments for ecosystem-based fisheries scientists. *Fisheries*, 32(5), 217-233.
- Fulton, E. A., Smith, A. D., Smith, D. C., & Johnson, P. (2014). An integrated approach is needed for ecosystem based fisheries management: insights from ecosystem-level management strategy evaluation. *PloS one*, 9(1), e84242.
- Fulton, E. A., Smith, A. D., Smith, D. C., & van Putten, I. E. (2011). Human behaviour: the key source of uncertainty in fisheries management. *Fish and Fisheries*, 12(1), 2-17.
- Garcia, S. M., & Cochrane, K. L. (2005). Ecosystem approach to fisheries: a review of implementation guidelines. *ICES Journal of Marine Science: Journal du Conseil*, 62(3), 311-318.

- Guerry, A.D. 2005. Icarus and Daedalus: conceptual and tactical lessons for marine ecosystem-based management. *Frontiers in Ecology and the Environment*, 3: 202-211.
- Gutiérrez, N. L., Hilborn, R., & Defeo, O. (2011). Leadership, social capital and incentives promote successful fisheries. *Nature*, 470(7334), 386-389.
- Hall, S. J., & Mainprize, B. (2004). Towards ecosystem- based fisheries management. *Fish and Fisheries*, 5(1), 1-20.
- Halpern, B. S., Longo, C., Hardy, D., McLeod, K. L., Samhouri, J. F., Katona, S. K., ... & Zeller, D. (2012). An index to assess the health and benefits of the global ocean. *Nature*, 488(7413), 615-620.
- Hilborn, R., Stokes, K., Maguire, J. J., Smith, T., Botsford, L. W., Mangel, M., ... & Walters, C. (2004). When can marine reserves improve fisheries management?. *Ocean & Coastal Management*, 47(3), 197-205.
- Hobday, A. J., Smith, A. D. M., Stobutzki, I. C., Bulman, C., Daley, R., Dambacher, J. M., ... & Zhou, S. (2011). Ecological risk assessment for the effects of fishing. *Fisheries Research*, 108(2), 372-384.
- Hollowed, A. B., Bax, N., Beamish, R., Collie, J., Fogarty, M., Livingston, P., ... & Rice, J. C. (2000). Are multispecies models an improvement on single-species models for measuring fishing impacts on marine ecosystems?. *ICES Journal of Marine Science: Journal du Conseil*, 57(3), 707-719.
- Jennings, S. (2005). Indicators to support an ecosystem approach to fisheries. *Fish and Fisheries*, 6(3), 212-232.
- Keyl, F., & Wolff, M. (2008). Environmental variability and fisheries: what can models do?. *Reviews in Fish Biology and Fisheries*, 18(3), 273-299.
- Larkin, P.A. 1996. Concepts and issues in marine ecosystem management. *Reviews in Fish Biology and Fisheries*, 6: 139-164.
- Leslie, H. M., & McLeod, K. L. (2007). Confronting the challenges of implementing marine ecosystem-based management. *Frontiers in Ecology and the Environment*, 5(10), 540-548.
- Lester, S. E., Halpern, B. S., Grorud-Colvert, K., Lubchenco, J., Ruttenberg, B. I., Gaines, S. D., ... & Warner, R. R. (2009). Biological effects within no-take marine reserves: a global synthesis. *Marine Ecology Progress Series*, 384(2), 33-46.
- Levin, P. S., Fogarty, M. J., Murawski, S. A., & Fluharty, D. (2009). Integrated ecosystem assessments: developing the scientific basis for ecosystem-based management of the ocean. *PLoS Biology*, 7(1), e1000014.
- Link, J. S. (2005). Translating ecosystem indicators into decision criteria. *ICES Journal of Marine Science* 62(3), 569-576.
- Mangel, M., Talbot, L. M., Meffe, G. K., Agardy, M. T., Alverson, D. L., Barlow, J., ... & Young, T. P. (1996). Principles for the conservation of wild living resources. *Ecological Applications*, 6(2), 338-362.
- Marasco, R. J., Goodman, D., Grimes, C. B., Lawson, P. W., Punt, A. E., & Quinn II, T. J. (2007). Ecosystem-based fisheries management: some practical suggestions. *Canadian Journal of Fisheries and Aquatic Sciences*, 64(6), 928-939.
- McCay, B. J., & Jones, P. J. (2011). Marine protected areas and the governance of marine ecosystems and fisheries. *Conservation Biology*, 25(6), 1130-1133.
- Murawski, S. A. (2007). Ten myths concerning ecosystem approaches to marine resource management. *Marine Policy*, 31(6), 681-690.
- Pikitch, E.K., et al. 2004. Ecosystem based fishery management. *Science*, 305: 346-347.
- Plagányi, É. E., Punt, A. E., Hillary, R., Morello, E. B., Thébaud, O., Hutton, T., ... & Rothlisberg, P.

- C. (2014). Multispecies fisheries management and conservation: tactical applications using models of intermediate complexity. *Fish and Fisheries*, 15(1), 1-22.
- Sainsbury, K., & Sumaila, U. R. (2003). 20 Incorporating Ecosystem Objectives into Management of Sustainable Marine Fisheries, Including 'Best Practice' Reference Points and Use of Marine Protected Areas. *Responsible fisheries in the marine ecosystem*, 343.
- Sissenwine, M. P., Mace, P. M. (2003). Governance for responsible fisheries: an ecosystem approach. *Responsible fisheries in the marine ecosystem*, 363-390.
- Smith, A. D. M., Fulton, E. J., Hobday, A. J., Smith, D. C., & Shoulder, P. (2007). Scientific tools to support the practical implementation of ecosystem-based fisheries management. *ICES Journal of Marine Science: Journal du Conseil*, 64(4), 633-639.
- Steele, J. H., Aydin, K., Gifford, D. J., & Hofmann, E. E. (2013). Construction kits or virtual worlds; Management applications of E2E models. *Journal of Marine Systems*, 109, 103-108.
- Tear, T. H., Kareiva, P., Angermeier, P. L., Comer, P., Czech, B., Kautz, R., ... & Wilhere, G. (2005). How much is enough? The recurrent problem of setting measurable objectives in conservation. *BioScience*, 55(10), 835-849.
- Whipple, S. J., Link, J. S., Garrison, L. P., & Fogarty, M. J. (2000). Models of predation and fishing mortality in aquatic ecosystems. *Fish and Fisheries*, 1(1), 22-40.
- Worm, B., Hilborn, R., Baum, J. K., Branch, T. A., Collie, J. S., Costello, C., ... & Zeller, D. (2009). Rebuilding global fisheries. *Science*, 325(5940), 578-585.
- Yaffee, S. L. (1999). Three faces of ecosystem management. *Conservation Biology*, 13(4), 713-725.