

The following list includes the sources used in the preparation of the course:

References

Ben-Horin, T., Bidegain, G., Narvaez, D., Bushek, D. 2015. Parasite transmission through suspension feeding. *Journal of Invertebrate Pathology*, 131, 15-176.

Ben-Horin, T., Lafferty, K.D., Bidegain, G., Lenihan, H.S. 2016. Fishing diseased abalone to promote yield and conservation. *Philosophical Transactions of the Royal Society of London B* 371:20150211.

Bidegain, G (2021). Graphical User Interface (GUI) for marine disease modeling (<https://www.mathworks.com/matlabcentral/fileexchange/87999-graphical-user-interface-gui-for-marine-disease-modeling>), MATLAB Central File Exchange. Retrieved February 28, 2021.

Bidegain, G., Powell, E.N., Klinck, J.M., Ben-Horin, T., Hofmann, E.E. 2016. Marine infectious disease dynamics and outbreak thresholds: pandemic infection and the potential role of filter feeders. *Ecosphere*, 7 (4):e01286.

Diekmann, O., H. Heesterbeek, and T. Britton, 2013. Mathematical tools for understanding infectious disease dynamics. Princeton University Press, Woodstock, Oxfordshire.

Diekmann, O., J. A. P. Heesterbeek, and J. A. J. Metz, 1990. On the definition and the computation of the basic reproduction ratio R_0 in models for infectious diseases in heterogeneous populations. *Journal of Mathematical Biology* 28:365–382.

Diekmann, O., J.A.P Heesterbeek and M.B. Roberts, 2010. The construction of next-generation matrices for compartmental epidemic models. *Journal of the Royal Society Interface*, 7, 873-885. doi: 10.1098/rsif.2009.0386.

Kermack, W. O. and A. G. McKendrick, 1927. A contribution to the mathematical theory of epidemics. *Proceedings of the Royal Society of London. Series A, Containing Papers of a Mathematical and Physical Character*, 115:700–721.

Kermack, W. O. and A. G. McKendrick, 1991a. Contributions to the mathematical theory of epidemics - I. *Bulletin of Mathematical Biology*, 53:33–55.

Kermack, W. O. and A. G. McKendrick, 1991b. Contributions to the mathematical theory of epidemics II. *Bulletin of Mathematical Biology*, 53:57–87.

Kermack, W. O. and A. G. McKendrick, 1991c. Contributions to the mathematical theory of epidemics III. *Bulletin of Mathematical Biology*, 53:89–118.

McCallum, H., L. Gerber, and A. Jani, 2005. Does infectious disease influence the efficacy of marine protected areas? A theoretical framework. *Journal of Applied Ecology*, 42:688–698.

McCallum, H., D. Harvell, and A. Dobson, 2003. Rates of spread of marine pathogens. *Ecology Letters*, 6:1062–1067.

McCallum, H. I., A. Kuris, C. D. Harvell, K. D. Lafferty, G. W. Smith, and J. Porter, 2004. Does terrestrial epidemiology apply to marine systems? *Trends in Ecology and Evolution*, 19:585–591.

Powell, E. N., E. E. Hofmann, and J. M. Klinck, 1996. Modeling diseased oyster

populations II. Triggering mechanisms for *Perkinsus marinus* epizootics. *Journal of Shellfish Research*, 15:141–165.

Powell, E. N., J. M. Klinck, S. E. Ford, E. E. Hofmann, and S. J. Jordan, 1999. Modeling the MSX parasite in eastern oyster (*Crassostrea virginica*) populations. III. Regional application and the problem of transmission. *Journal of Shellfish Research*, 18:517–538.

Sokolow, S. H., P. Foley, J. E. Foley, A. Hastings, and L. L. Richardson, 2009. Editor's choice: disease dynamics in marine metapopulations: modelling infectious diseases on coral reefs. *Journal of Applied Ecology*, 46:621–631.

Strathmann, R. R., 1990. Why life histories evolve differently in the sea. *American Zoologist*, 30:1997–207.

Wilson-Ormond, E. A., E. N. Powell, and S. M. Ray, 1997. Short-term and Small-scale variation in food availability to natural oyster populations: ood, flow and flux. *Pubblicazioni della Stazione Zoologica di Napoli I: Marine Ecology*, 18:1–34.

Yakob, L. and P. J. Mumby, 2011. Climate change induces demographic resistance to disease in novel coral assemblages. *Proceedings of the National Academy of Sciences of the United States of America*, 108:1967–1969.