

Habitats of Virginia

INTERDEPENDENCE VIRTUAL DISCUSSION

Teachers: You may use the following questions to facilitate a virtual class or small group discussion or you may want to have students respond to these questions and post them in a google doc or discussion board.

- What is the relative importance of direct (consumption, competition) vs. indirect (induced behavioral change) interactions in determining the effect of one species on others?
- What is the role of parasites and mutualists in generating and maintaining host species diversity?
- How does species loss affect the extinction risk of the remaining species?
- To what extent is primary producer diversity a driver of wider community diversity?
- Which ecosystems and what properties are most sensitive to changes in community composition?
- What is the magnitude of the 'extinction debt' following the loss and fragmentation of natural habitats, and when will it be paid?
- Under what circumstances do landscape structures such as corridors and stepping stones play important roles in the distribution and abundance of species?
- What are the ecosystem impacts of world-wide top predator declines?

CITATION

Sutherland, W.J., Freckleton, R.P., Godfray, H.C.J., Beissinger, S.R., Benton, T., Cameron, D.D., Carmel, Y., Coomes, D.A., Coulson, T., Emmerson, M.C., Hails, R.S., Hays, G.C., Hodgson, D.J., Hutchings, M.J., Johnson, D., Jones, J.P.G., Keeling, M.J., Kokko, H., Kunin, W.E., Lambin, X., Lewis, O.T., Malhi, Y., Mieszkowska, N., Milner-Gulland, E.J., Norris, K., Phillimore, A.B., Purves, D.W., Reid, J.M., Reuman, D.C., Thompson, K., Travis, J.M.J., Turnbull, L.A., Wardle, D.A. and Wiegand, T. (2013), Identification of 100 fundamental ecological questions. *J Ecol*, 101: 58-67. doi:10.1111/1365-2745.12025