

For Gilpin & Soulé (1986):

- (1) How do deterministic extinctions occur? How do stochastic extinctions occur?
- (2) How do the R, D, F and A Vortices function? How can they be avoided?
- (3) Critique the arguments presented by the authors. Do you think the science and assumptions underlying them are usually valid?

For Menges (1986):

- (4) Describe a projection matrix. How is the data used in them generated?
- (5) How do deterministic vs. stochastic projection models differ?
- (6) Based on projection matrix studies, critique the likely importance of the above 4 extinction vortices.

For Wiens (1989)

- (7) Define grain and extent. What would these represent within a conservation perspective?
- (8) Provide examples of an ecological pattern that is scale dependent. For instance, which is negative at a small observation scale, but positive at a larger one. And the opposite.
- (9) What is meant by closed/open and equilibrium/non-equilibrium systems? How does scale impact these states?

For Palmer & White (1994)

- (10) In the Species-Area Relationship the number of species is simply plotted vs area sampled. Based on scaling theory, how could this make fair comparisons difficult or impossible between different observational designs or systems?
- (11) For a given total area sampled, what is the impact of grain size on richness? Why does this exist?
- (12) How does the impact of extent differ across different grain sizes? Why does this exist?