Biogeography Discussion Questions 18 October 2023 D Jenkins

Feeley & Silman (2010)

1. How do you feel about the use of unpublished migration data to model scenarios for "observed migration" and "land-use"?
2. Fig. 2. Does your answer to #1 change? And what about land-use scenarios?
3. Why the scatter in observed rates (grey squares in Fig. 2)? What could help narrow that spread in Fig. 2(a)?
4. "In fitting a density distribution to collection elevations we make the implicit assumption that the relative number of collections per species at a given elevation is indicative of the relative density of individuals at that elevation.
    - Could / should we do something like this with our data?
5. Should they have run scenarios with BOTH climate change and land use change?

Zhang et al. (2017)

1. Did they ably dispel criticisms of using GBIF data?
2. Is it sufficient to work with year 2000 and project future climate and land use, or should studies like this go back in time, too? And how far into the future should *we* project?
3. Should we also take into account the phylogenies of clades we analyze (mammals, etc.)?
4. Should we do SDMs like they did? That could get us measures like CSH and LSH...
5. If you accept their approach, what's the bottom line from Fig. 3?