Thursday Lecture

2024-10-03

**Occupancy modeling for wildlife habitat analyses, Part II**

Quiz:

? *xx*

? *xx*

**Used-available (Presence-only) VS presence-absence (use-nonuse)**

* Know the difference between Use vs Available vs non-use
* For use-available data (or presence only) you don’t get information about what the species *didn’t* choose
  + What kind of information do you get from use?
    - Diet data
    - Heterogeneous landscapes
    - You can have data points with gaps in between – you don’t’ know if they are used vs available
    - iNaturalist data of finds
    - Telemetry data (VHF)
* Nonuse: do not select vs what is and isn’t available to them

**Preference vs Selection**

* Preference is selection one over the other.
* Selection is what is available.
  + An animal may prefer a certain type of habitat but SELECTION is when there is only some sort of habitat available, so they have a sequence of processes in which you go through in choosing from what is available.
  + Example: Preferring Meat Lovers pizza but when there is only pepperoni versus cheese, what is the process of selection
* NHPI advantageous because more efficient
  + Matching performance and preference