Running draft of methods for the Dynamic Occupancy Models review

**Initial paper solicitation**

* Google scholar queries for the following terms were made on October 27th.
  + “Occupancy dynamic model”/“Occupancy dynamics model”
  + “Dynamic occupancy model”/“Dynamics occupancy model”
  + “Multi-season occupancy model”/“multiseasion occupancy model”/“multiple season occupancy model”/“Multi season occupancy model”
  + “Stochastic patch occupancy model”
* The first 100 records (10 pages) for each term were considered for inclusion.
* Papers which were obviously irrelevant (i.e., clearly not in the field of ecology), not in English, or not available online or through the library within a reasonable effort were immediately discarded without replacement. Those remaining (287 records) were saved to a google spreadsheet.

Additional papers acquired incidentally were added to the spreadsheet and automatically included.

**Randomisation**

* Papers were stratified by search query and a 5-year publication window (2000-2005, 2005-2010, 2010-2015, 2015-present).
* Random ranks were given within each strata, and papers were marked as selected for inclusion according to these criteria:
  + If total papers in the strata was <6, all papers are included.
  + If total papers are <21, the top 5 are included.
  + If total papers are >20, the top 25 percent are included.
* This gives an initial total of 86 papers / 287 to be evaluated.

If papers do not meet qualifying criteria for the review, they are replaced by the next highest ranking paper within the strata.

**First round processing**

* A spreadsheet was developed to organise findings from each paper, with general categories for Study Data, Objectives, Taxa, Location, Data Collection, Detection, Covariates, Modelling, and Outputs.
* Papers were read in the assigned order and findings noted in the spreadsheet
* Papers which did not qualify (i.e., did not fit a Dynamic Occupancy Model or did not use real data) were discarded and replaced from within their 5 year/query strata. All disqualifications are noted with reason for replacement in the spreadsheet’s changelog

**First round analysis**

How many papers total/per strata?

Rationale for wanting new papers and for discarding SPOMs?

**New spreadsheet**

**Second round solicitation**