Assignment 8

1. Excel - Occupancy
   1. Use the solver to estimate Psi, p1, p2, and p3, cut and paste the results under the unconstrained model.
   2. Constrain the estimates p1=p2=p3, and then use the solver to estimate Psi, p; cut and paste the results under the constrained model.
2. Excel – Occupancy with site covariates
   1. Enter the formula for the logit for the Psi(.)p(t) model in the column labeled Logit(Psi). Use the solver to estimate Psi, p1, p2, and p3, cut and paste the results under the unconstrained model.
   2. Enter the formula for the logit for the model Psi(distance) in the column labeled Logit(Psi). Use the solver to estimate Psi – β(int), Psi – β(dist), p1, p2, and p3, cut and paste the results under the unconstrained model.
3. Excel – Occupancy with sampling covariates
   1. Enter the formula for the detection probability for the p1:3 in the columns labeled p(temperature). Use the solver to estimate Psi, p1, p2, and p3, cut and paste the results under the unconstrained model.
4. Presence
   1. Cast the following models in presence:
      1. Null – Psi(.)p(.)
      2. Psi(dist) p(t)
      3. Psi(dist) p(.)
      4. Psi(.) p(temp)
      5. Psi(dist) p(temp)
   2. Paste the results table and the tables of parameter estimates on the last sheet in the Excel spreadsheet and email it to [Steury@auburn.edu](mailto:Steury@auburn.edu)
5. In the text of your email, interpret the Results table. Be sure you answer the following questions: 1) Which is the best model? 2) Which model(s) received strong support (Δ<4.0)?