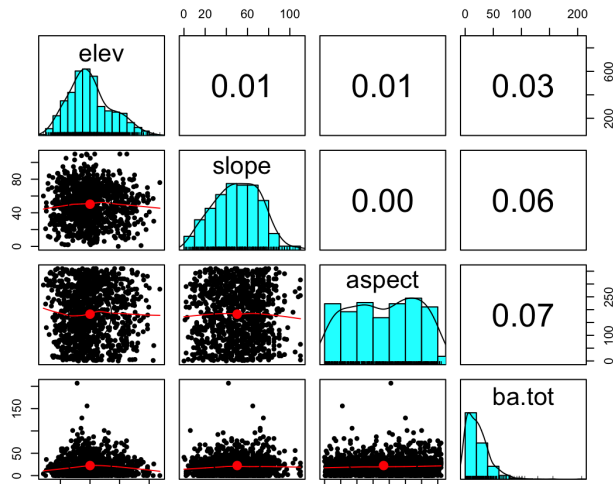


Alex Fink  
 Worked with Desireé Smith and JT Larkin  
 Lab #3

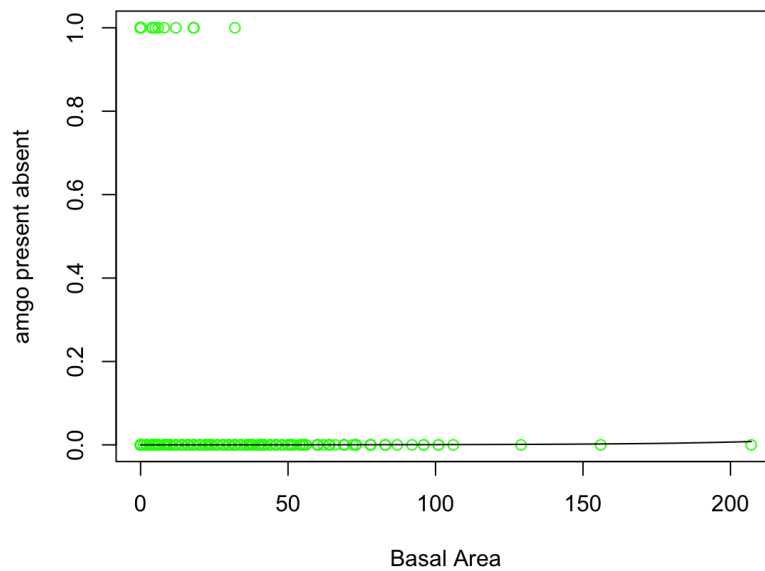
Q1: Basal area is the density of trees in a specific area. Basal area is measured in meters squared per hectare.

Q2:



**AMGO Logistic Function Plot Present/Absence**

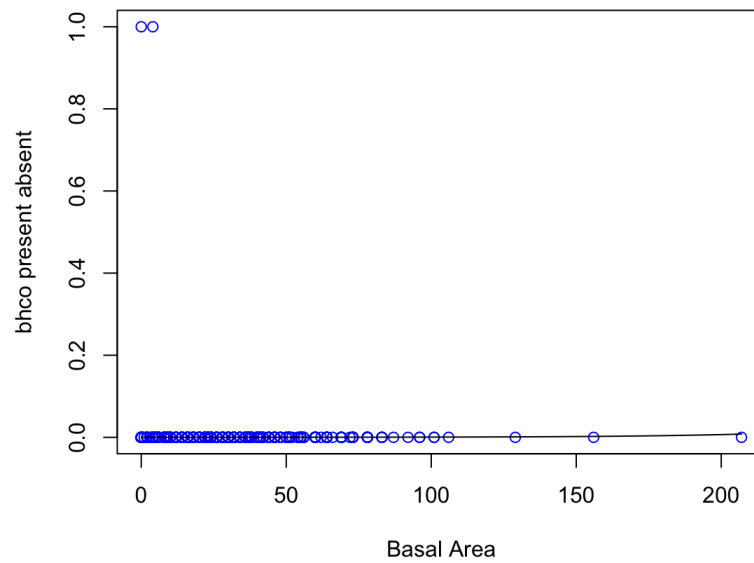
Q3:



Q4: The bird species seem to prefer areas of lower elevations on the graph. It's hard to tell what they bird prefers because the logistic model system is not a good fit for this data.

### BHCO Logistic Function Plot Present/Absence

Q5:



Q6: The bird seems to prefer area with low tree cover. The logistical model is ok, but not the best.

Q7: 181

Q8: `total_GRJA = dat_all$GRJA`  
`sum(total_GRJA)`

Q9: 110

Q10: `grja_vec = dat_all$GRJA > 0`  
`grja_present_absent = as.numeric(grja_vec > 0)`  
`sum(grja_present_absent)`