**Name:** Brittany Cavazos

1. General Info
   1. Proposed Title: Lepidoptera predation influenced by bird loss
   2. Likely coauthors: Haldre Rogers, Alex Kerr, Jasmin Silva
   3. Proposed journal (1st choice): Biotropica
   4. Proposed journal (backup): Journal of the Lepidopterists’ Society
2. The overarching question of this paper is: Do birds exhibit a top-down control on Lepidoptera abundance through predation?
3. Which is important/interesting/unresolved because (1-4 reasons)
   1. Altered food web since loss of birds in Guam, but unaltered in neighboring islands –still need more research to figure out exactly how it is being altered
   2. Spiders have been shown in same setting (Guam) to be released of top down control without bird predation
4. To answer this question/explore this topic, I addressed the following objectives: (you can have more or less than 3 objectives, but I recommend 2-4)
   1. Establish current, representative Lepidoptera abundances on all islands
   2. Quantify predation rate/ probability of predation on Lepidoptera on all islands (include predation by all possible predators)
5. I addressed these objectives: (use list/bullet points below)
   1. In Guam, Rota, and Saipan
   2. With the following focal/model species/model system: Lepidoptera and birds – specifically for predation trial,
   3. And the following approaches: Ground surveys and partially manipulated observational experiments
6. For my analysis, I want to test:   
   1 – How lepidoptera (butterflies) compared across islands, sites, and disturbed/native  
   2 – If caterpillars are more highly predated on islands with birds than without birds   
   3 – If 1 & 2 agree with each other
7. My response (y-axis) variable is: # caterpillars predated (this could also be more specific – (clay) caterpillars predated by birds, although I’ll have to look more into the protocol to see how they defined that)
8. My predictors (x-axis/colors/shapes on the graph) are: disturbed/native, study sites/ transects, islands, birds present
9. I replicated this across multiple transects (disturbed/undisturbed) and Islands (w/ and w/o birds)
10. I think I will need to analyze these data using generalized linear models (w/ mixed effects?)
11. I anticipate I will get a final figure(s) that will look like this [sketch one or more figures below that you could imagine being part of the final paper]

islands

islands

Predation rate (tbd units)

Lepidoptera abundance

G

R

S

G

R

S

Orange – disturbed sites, blue – native sites