Intro:

* Harshness
* Mutualism/facilitation: goes both ways
* Migration/community structure changes
* Hypotheses and predictions

Methods:

* Study Site
* Study species and system
* Line Transects
* Data Analysis
  + Comm structure
    - Vegan metrics lm and glm
    - PCA
  + Mutualistic interaction possibilities
    - Mesohabitats’ ANOVAs
      * Taxonomic
      * Functional
    - Bheaviors ANOVAs
      * Taxonomic
      * Functional
  + Mesohabitat influence on behavior
    - Chi squared

Results:

* Community Structure
  + Vegan metrics
  + pca
* Mutualistic interaction possibilities
  + Mesohabitat
    - Taxonomic
      * Two level
      * Three level
    - Functional
      * Three level
      * Two level
  + Behaviors
    - Taxonomic
      * Species abundances
    - Functional
      * Trophic guilds
      * Migratory classes
* Mesohabitat’s influence on behavior
  + Chi-squared test
  + Two level
  + Three level

Discussion:

* Birds do change throughout season
* Where birds are changes between seasons
* What birds are doing changes throughout season
* Where a bird is influences what it’s doing
* Important to know that community structures relevant for mutualistic interactions needed throughout season
  + Nectarivores relevant in spring, frugivores in late summer
* Help managers make decisions about what plants are needed for birds communities, and vice versa
  + Birds’ migrations are changing, the environment is changing, and blooming/fruiting is changing.

Figures:

* Fig 1: vegan metrics boxplot
* Fig 2: PCA eigenvector map
* **Fig 3: Mesohabitat species abundance bar graph**
* **Fig 4: Behavior species abundance bar graph**
* **Fig. 5: Mesohabitat a) trophic and b) migratory boxplot**
* **Fig. 6: Behavior a) trophic and b) migratory boxplot**
* Fig. 7: a) Meso-beha mosaic 2 level plots, b) 3 level plots (both seasons only)

Tables**:**

* Table 1: community metrics stats
* Table 2: species list
* Table 3: trophic guild list
* Table 4: migratory class list
* **Table 5: taxonomic and functional meso and beha stats**
* **Table 6: chi-squared results**