(Patterns)

**Reservoir patterns within and among river basins in the United States**

INTRO

1. All about reservoirs — **Nicky, David**
   * Prevalence of reservoirs and why reservoirs are important
     + Socially, economically, environmentally, biologically
   * How are reservoirs allocated in basins and types or characteristics of reservoirs
     + BLM vs USACE
2. Need for a basin-scale view (expanding the scale paper) — **Victoria, Caleb**
   * TOPIC SENTENCE: Historically, reservoirs have been viewed as isolated systems but it is important to consider reservoirs as members of a larger network.
   * RCC- provides large scale view
   * Reservoir continuity concept
   * Cascading/ connectivity of reservoirs
     + TVA paper
   * Differences and similarities among basins
     + How and why are they different or similar
3. Why is it worthy to contrast basins — **Andy, Spencer**
   * TOPIC SENTENCE: With large scale climate changes, managing reservoirs at an individual reservoir scale may prove inefficient. Considering reservoirs within a larger network, i.e., basin, could improve understanding, predictability, and management efficiency.
   * Predictability and understanding
   * Helps frame future objectives
   * Management efficiency
   * Hasn’t been investigated??? — **Conner**
   * REMINDER: Send paper comparing subbasins within MS River Basin

Comparative studies are often been used in the early stages of investigations to help ascend from the initial level of exploratory research to a more advanced level of comprehensive theoretical models. We conduct a comparative study of river basins to improve our understanding of longitudinal patterns in reservoir attributes. Specifically our objectives included (1) identify spatial patterns in reservoir physical, chemical, fish assemblage, and fisheries characteristics within river basins; (2) determine how basin attributes vary among basins; and (3) Identify large-scale management implications suggested with the observed spatial patterns

For objectives 1 and 2, list testable hypotheses.

Consider including ecoregion as a factor to account for variability within river basins.