***Guiding questions***

Cai et al. 2014

1. How do are extreme El Niño events defined in this study?
2. How were GCMs evaluated and selected for this analysis? What metrics were used? How well constrained are these metrics?
3. What were the perturbed physics ensemble (PPE) experiments used to test? What effect would a cold bias have on extreme El Niño events?
4. What is the proposed mechanism behind an increase in extreme El Niño events in the future simulated by models?
5. Why are future extreme El Niño events characterized by lower SST anomalies? If they are characterized by weaker SST anomalies, how/why are they defined as “extreme El Niño events”?

Yeh et al. 2009

1. Are there sufficient observations in the central and eastern Pacific Ocean with which to assess the observed EP vs CP event statistics over the historical record (1850-present)?
2. Similarly, with only 7 CP events during the historical record, are there enough events to detect a robust change in the frequency of these events?
3. What are the differences in tropical and extratropical climate (via “teleconnections”) between CP and EP style ENSO events?
4. What metric do they use to select models that “realistically capture the occurrence of CP-El Niño to EP-El Niño”? Do you think this metric is robust given observational constraints?
5. How do the teleconnections of these two style events in GCMs compare to those in observations?
6. What do Yeh et al. propose as the mechanism behind an increase in CP style ENSO events in the future?