

# What does USCLIVAR need from Reanalyses?

- Previous major activity: Earth system analysis workshop
- Request recommendations from CPTs, WGs and Science teams?
  - What are critical metrics for success? Global, regional, physical dynamical
  - Based on well known data (ECVs?) that have connection to less well known data
    - Obs4MIPS - Possible Reanalysis Inter. Project
  - Forecast Departures - use to improve models and also detect issues with the assimilated data
- Define Reanalyses uncertainty

# Research Challenges and Reanalyses

- Decadal Variability

- Observationally-based diagnostic tool
- Ocean or land reanalyses for initialization of coupled experiments

- Extremes

- ENSO Variability
- Rarity of events (provide consistent coverage)
- Processes: interactions with Large scale

- Polar Climate

- Minimal observations
- Coupled analyses

- Marine Carbon/Biogeochemistry

Developing constituent analysis and physics processes