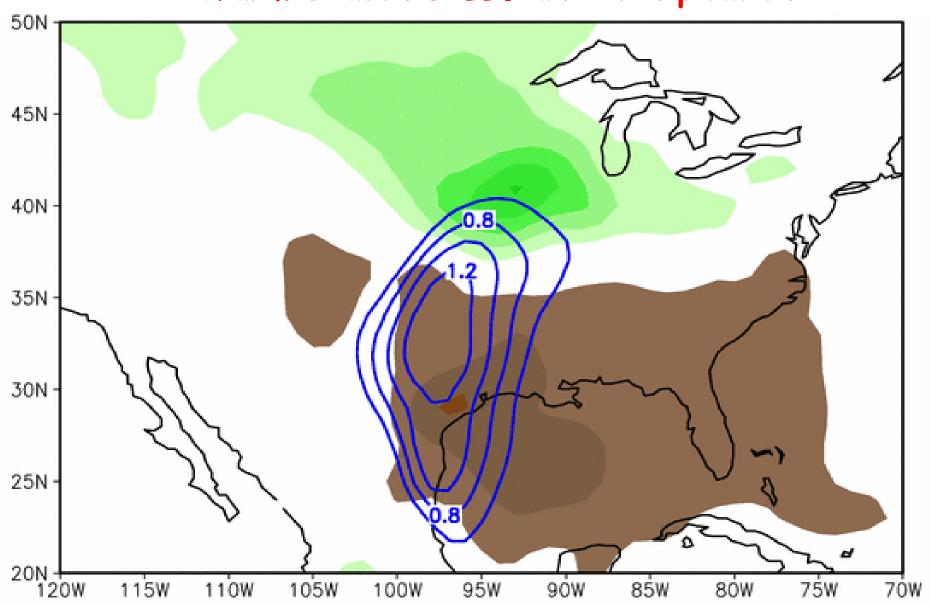
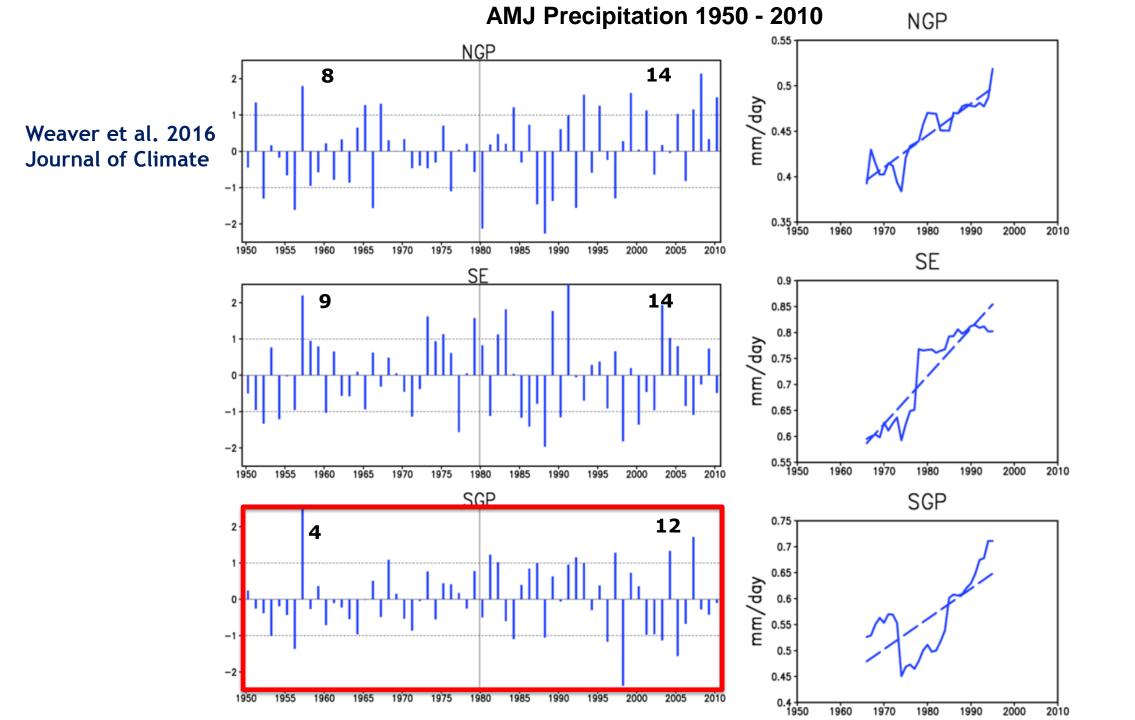
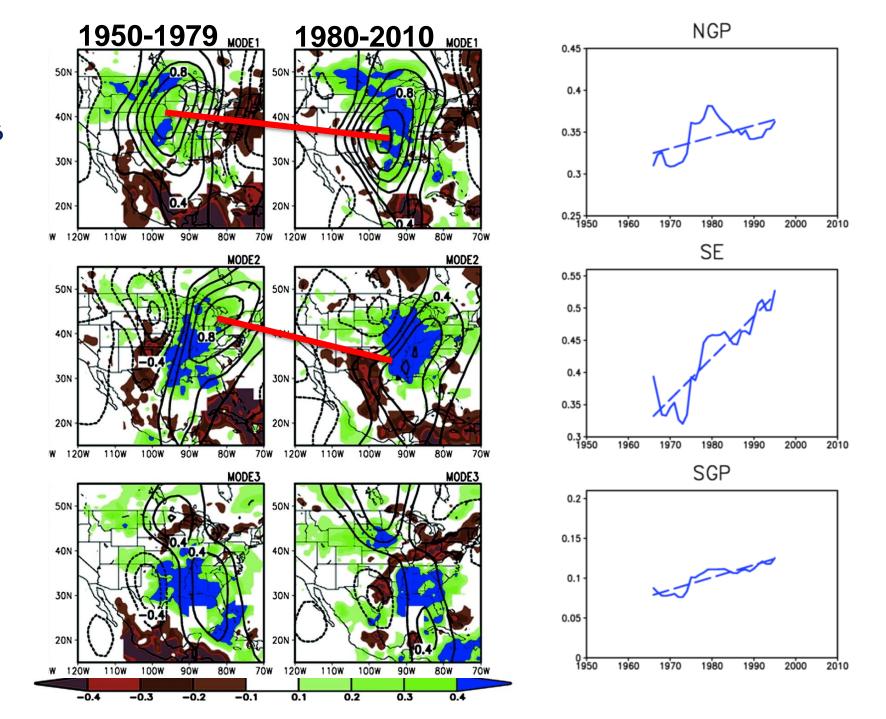


Variability
Warm Season GPLLJ and Precipitation





Weaver et al. 2016 Journal of Climate



## Water Related Limitations

- Monitoring of surface and groundwater interactions.
- Improved understanding of the relative roles of natural climate variability and anthropogenic climate change in physical mechanisms of central/western U.S. drought/pluvial.
  - Atmosphere land surface interactions.
  - Primary causes of observed (and future) changes in temperature & precipitation variability.

## Key Objectives and Tasks

 Develop and nurture lines of research to improve monitoring, modeling (large scale circ., downscaling, land surface, predictability), and nat/anthro process studies. Closing the Great Plains terrestrial water budget.

## Social, Economic, Environmental Benefits

- Improved water management practices fostering sustainability.
- Improved understanding of regional climate change impacts.
- Better understanding of Nat/Anthro pathways enhance scientific credibility in climate communications leading to improved mitigation and adaptation strategies.