

COMPARISON + TIME SERIES ANALYSIS

Comparison includes standard data
plus GCM projections

Time Series Hypotheses:

- 1) Climate variation is divided into inter-annual and interdecadal scales. There is a separation in peaks in power spectra between the shorter and longer periods.
- 2) Trends in temperature since 1900 are positive and strongest in mid continental sites and absent at maritime sites. There are no trends in precip.
- 3) The ENSO signal in the precipitation record is strongest at sites in tropical through warm temperate latitudes and weakest in mid-continental regions. The signal is most evident in temperature for sites in the Pacific N.W. and the S.E. US. (in cooperation with El Niño Working Group).
- 4) There are step changes in temp & precip record at or near 1957 and 1976 at LTER sites.