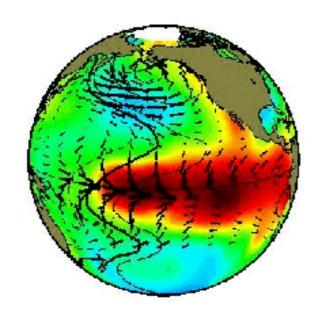
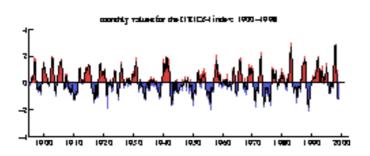
Issues

- ♦ What is the observed decadal change in East Asian monsoon climate system?
- ◆ Can such a decadal change be considered as natural variability (say, the PDO's impact)?
- What is the role of increased CO2 and aerosols?
- **♦** Summary

Basin-scale air-sea interaction signatures in the Pacific

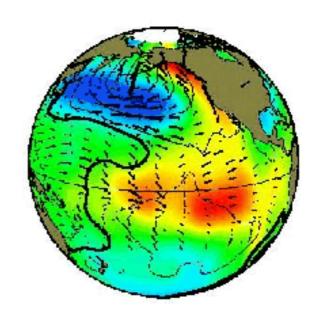
El Niño/Southern Oscillation

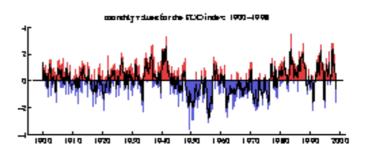




Interannual Signature

Pacific Decadal Oscillation

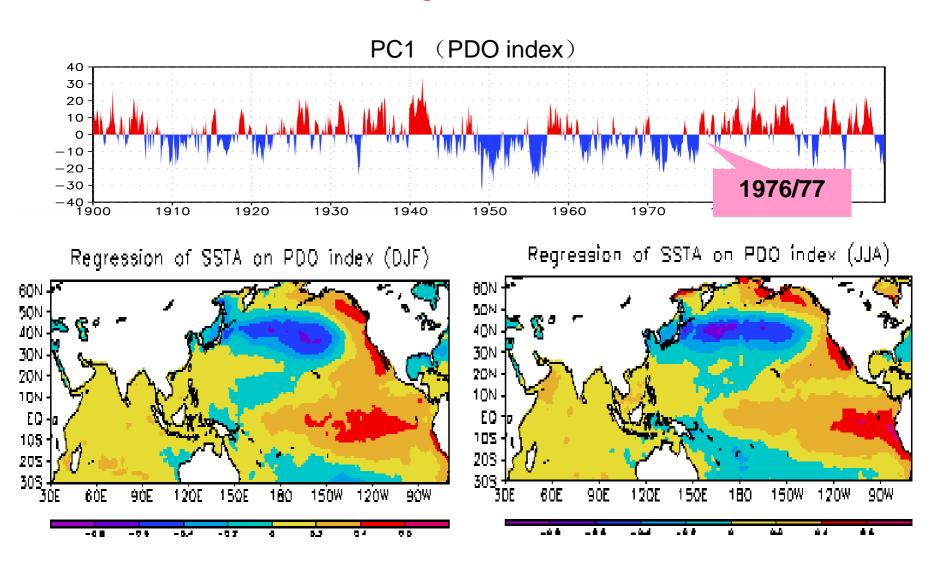




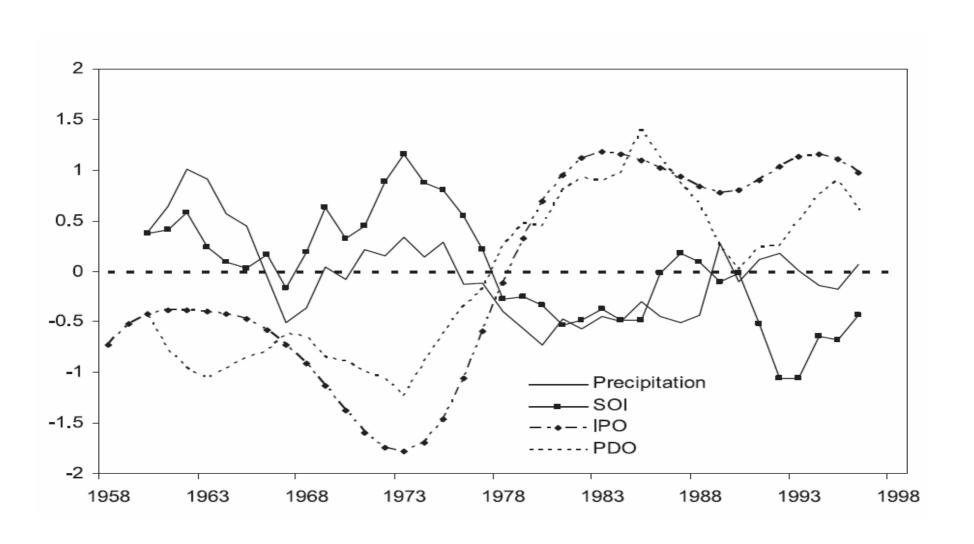
Decadal-to-interdecadal Signature

Basin-scale pattern of PDO

Warming in the tropical Indian and Pacific Oceans, while cooling in the North Pacific

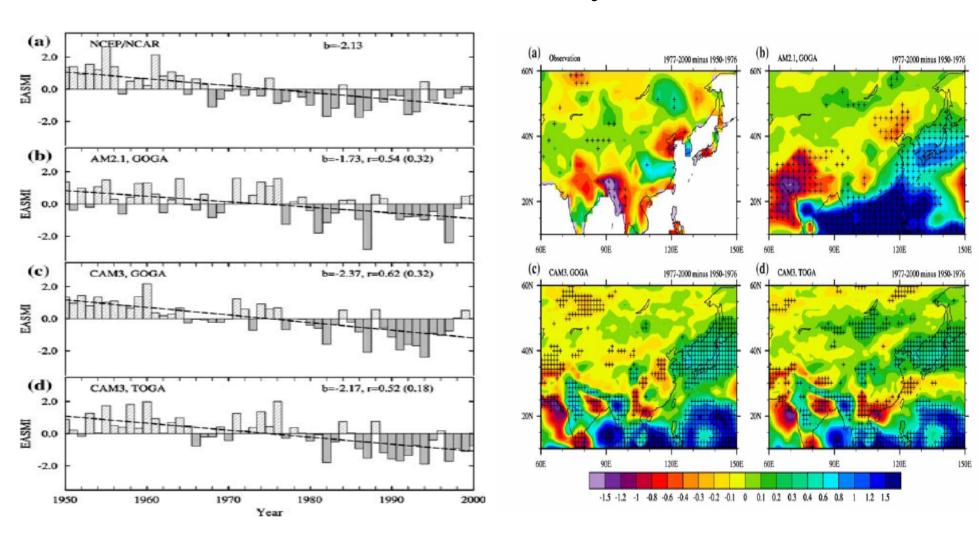


Relationship among precipitation in northern China, SOI, IPO and PDO



Simulated response of EASM to historical SSTs with CAM3/NCAR

Li, Dai and Zhou, Clim Dyn, 2010



SST anomalies related to EASM's weakening PDO-related SSTA pattern

Yang and Zhang, 2011

