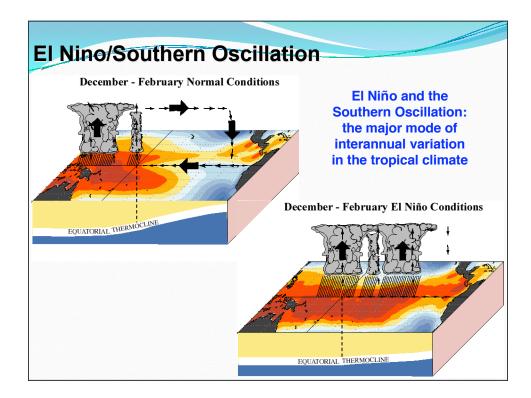
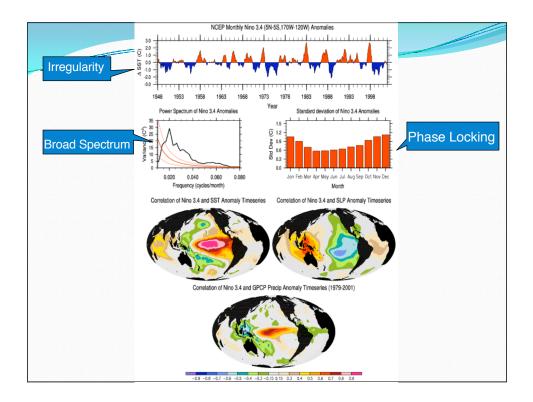
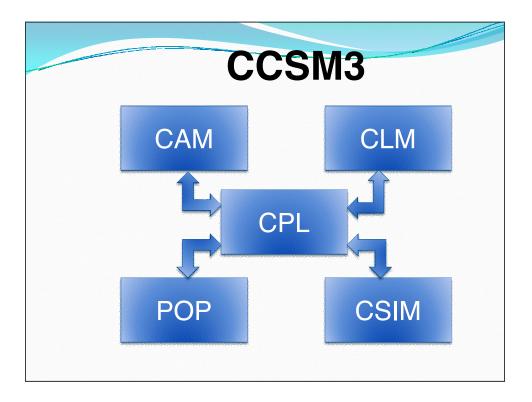
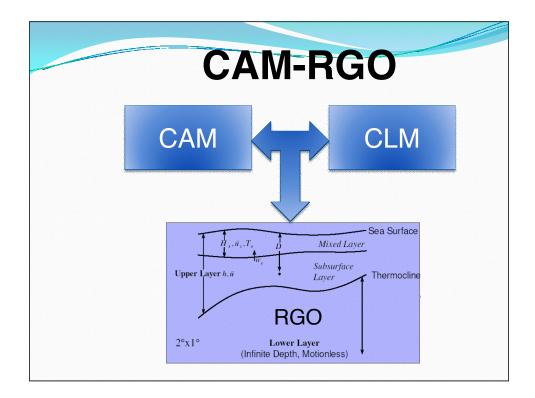
Modeling and Prediction El Niño

Ping Chang with thanks to Link Ji, Xiaohui Tang and Li Zhang

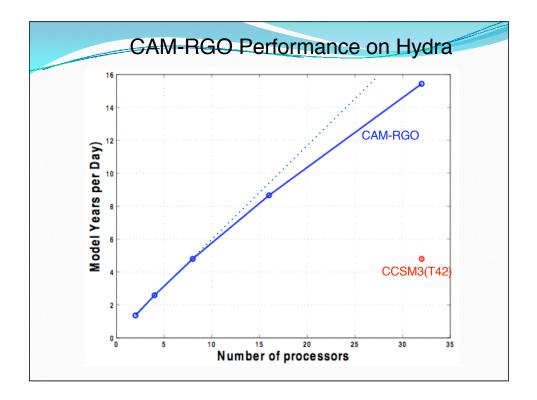


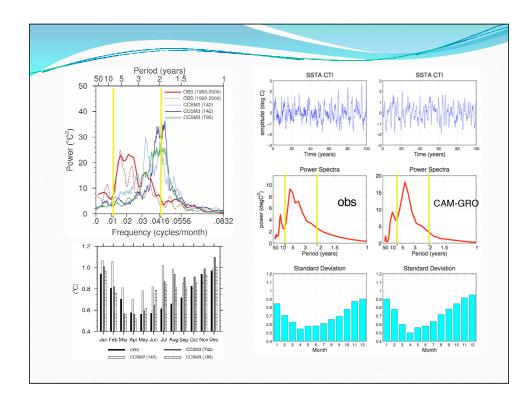


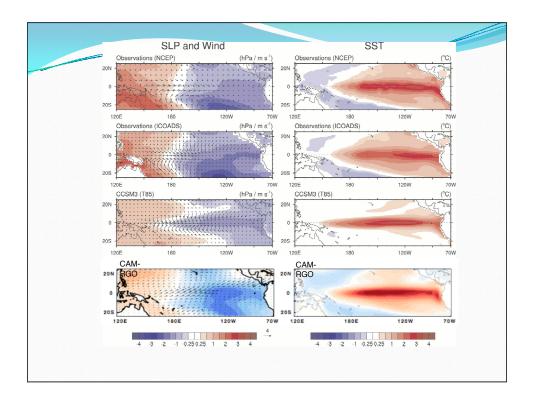


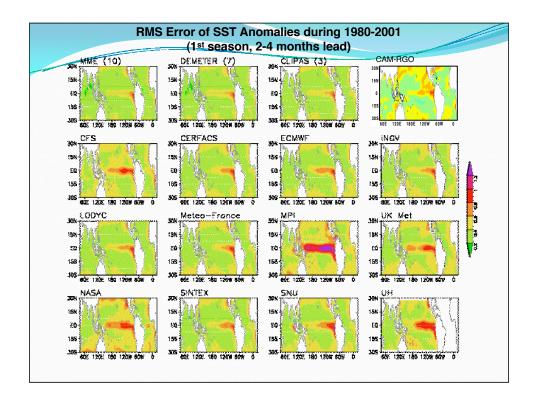


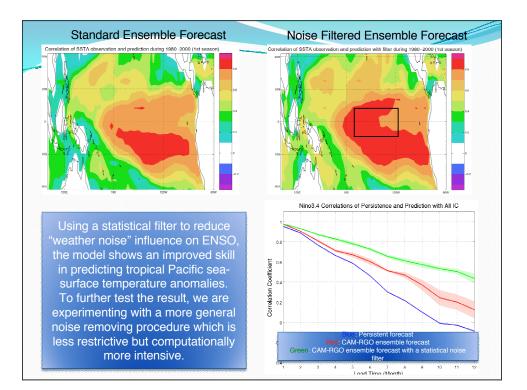
	ERSC CAM3
•	Community Atmospheric Model version 3 Developed at NCAR with substantial DOE input, both scientific and software.
•	The atmosphere model for CCSM, the coupled climate system model.
	 Also the most timing consuming part of CCSM.
	 Widely used by both American and foreign scientists for climate research.
	 For example, Carbon, bio-geochemistry models are built upon (integrated with) CAM3.
	IPCC predictions use CAM3 (in part)
	 About 230,000 lines codes in Fortran 90.
•	1D Decomposition, runs up to 128 processors at T85 resolution (150Km)
•	2D Decomposition, runs up to 1680 processors at 0.5 deg (60Km) resolution.
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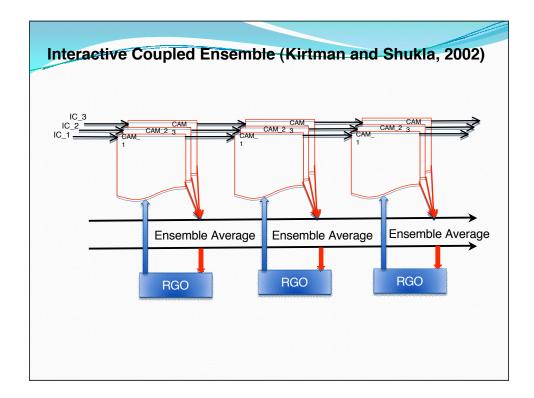














A new climate modeling tool that can be very useful for ENSO study and ENSO prediction

A new strategy for enhancing signal-to-noise ratio that may lead to improvement for seasonal climate forecast

