

ENSO Forecasting Models System

On the basis of Cane-Zebiak model introduced from Lamont-Doherty Earth Observatory of Columbia University, U.S.A. and Oxford coupled model from Oxford University, U.K., NCCo, NCCn, NCC/STI, NCC/NJU and NCC/NIM models have been developed through modulation of some parameters of the physical parameterizations (i.e. the intensity of oceanic upwelling in the mixed layer), modification of heat flux, introduction of data initialization and calculation functions, and expansion of model domain from the Pacific Ocean to the whole tropical ocean in the world. The moderate ENSO prediction model system composed of those five models has been put into operational experiments in recent years.

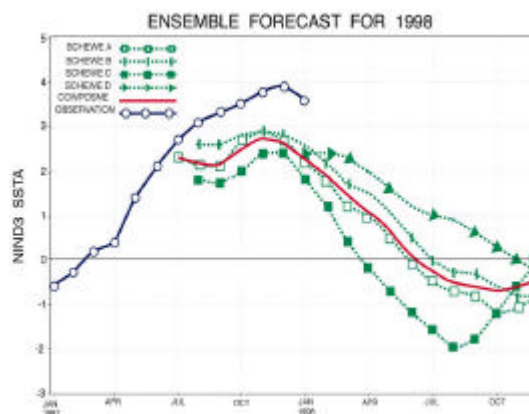
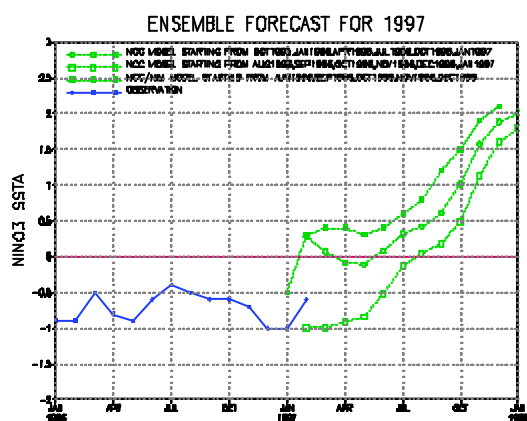
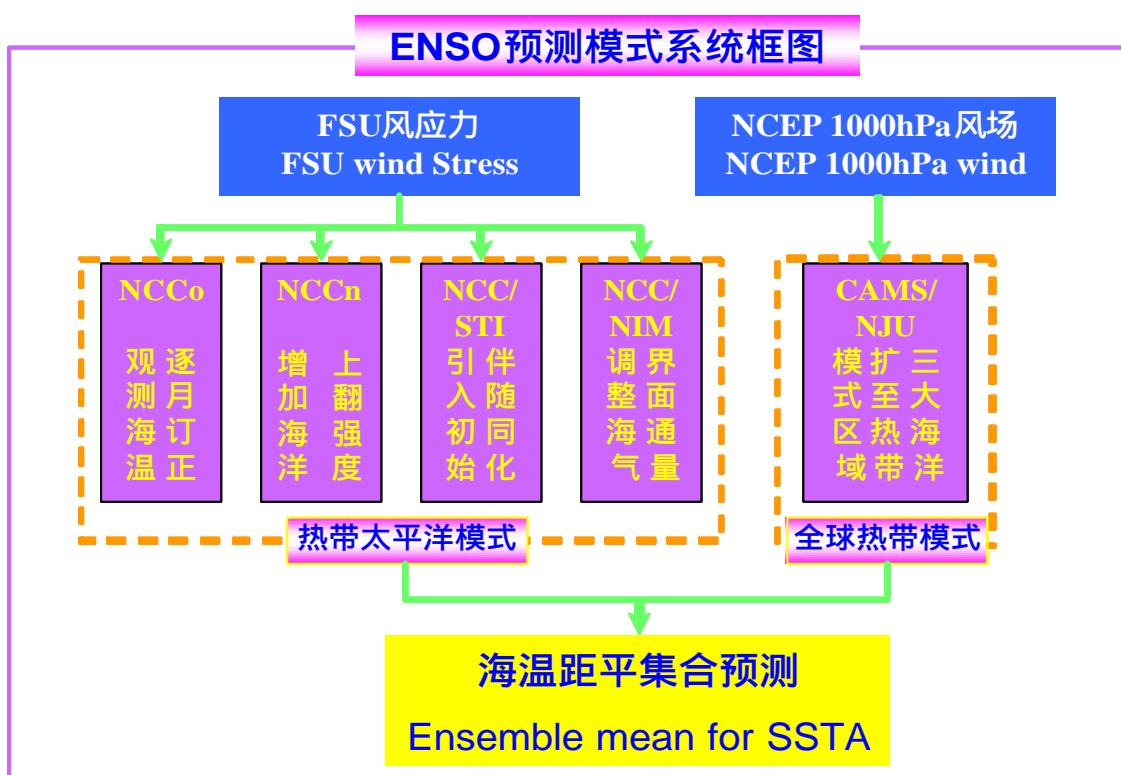


Fig. 1. SSTA in the equatorial eastern Pacific during 1997-1998 by use of the ENSO prediction model system of NCC.