

ENSO and Tropical Intraseasonal Variability

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The relationship between ENSO and intraseasonal tropical variability is examined using the DAO/FVGCM, NCEP reanalysis data and GPCP precipitation data. The GCM was run with prescribed climatological SST, idealized ENSO warm SST, and cold SST For 21 years. Results were compared with NCEP reanalysis and GPCP precipitation for warm events during 1983, 1992, and 1998 and cold events during 1985, 1989 and 1999.

Preliminary results show reasonable agreement between the GCM runs and observations. For example, we find that intraseasonal precipitation variability increases over the central Pacific and decreases over the maritime continents during warm events. Further results and discussion concerning the link between ENSO and intraseasonal variability will be presented at the workshop.