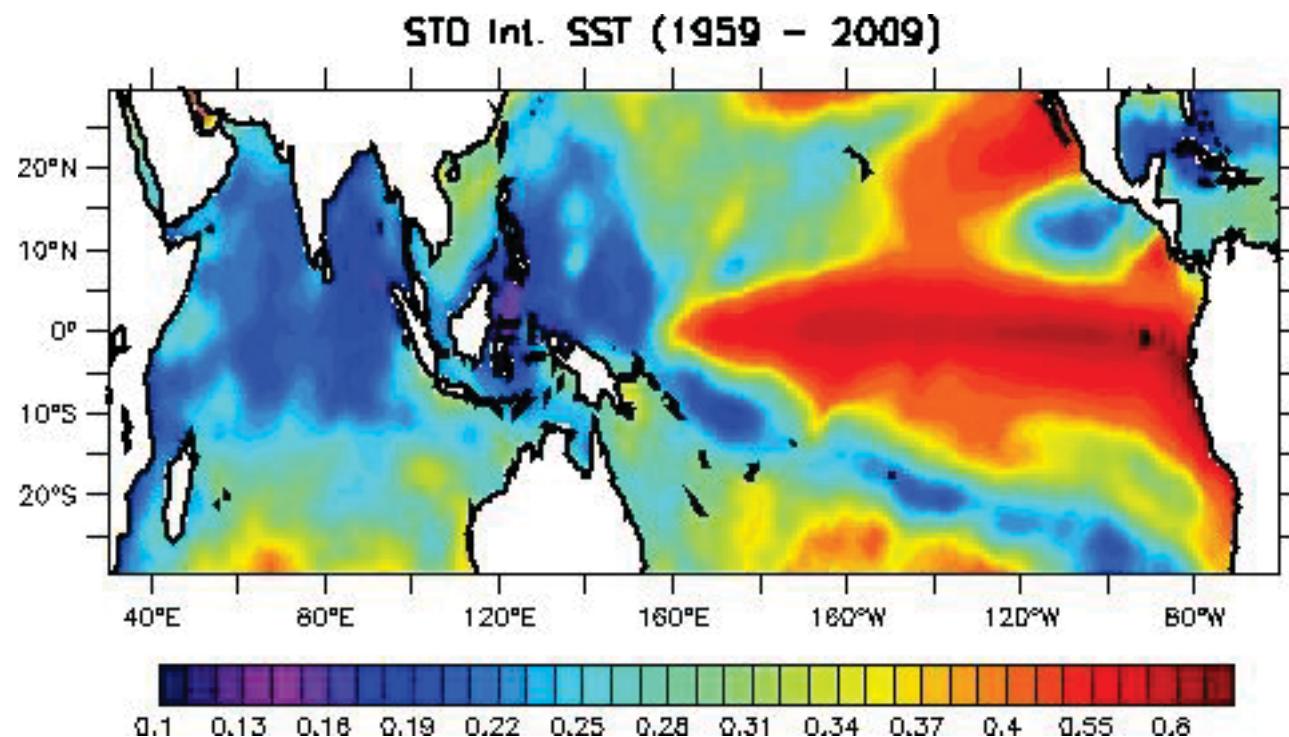


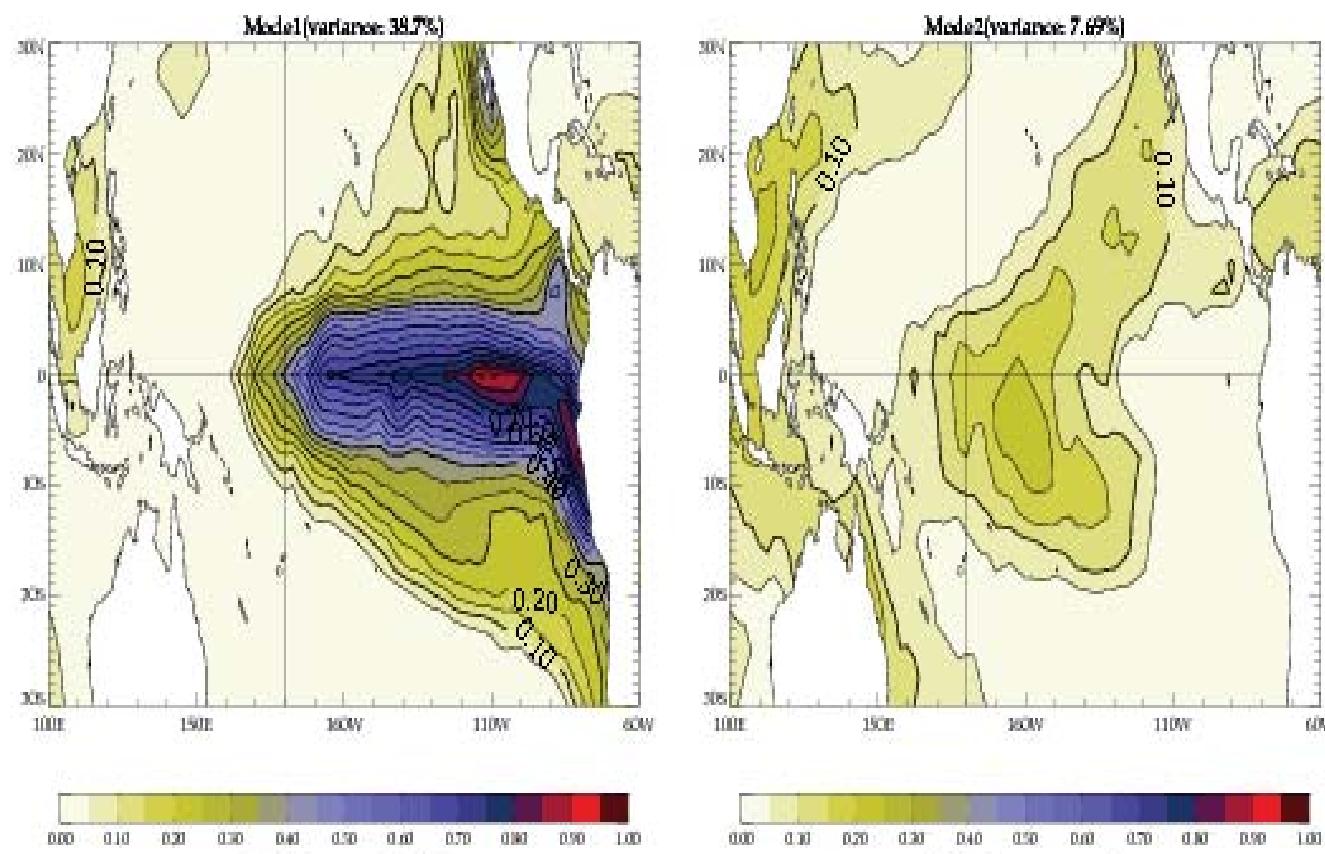
El Niño Modoki and Atmospheric Response

Akhil VP; Ivana HB; Keerthi MG;
Martin K; Nidheesh AG; Neena J

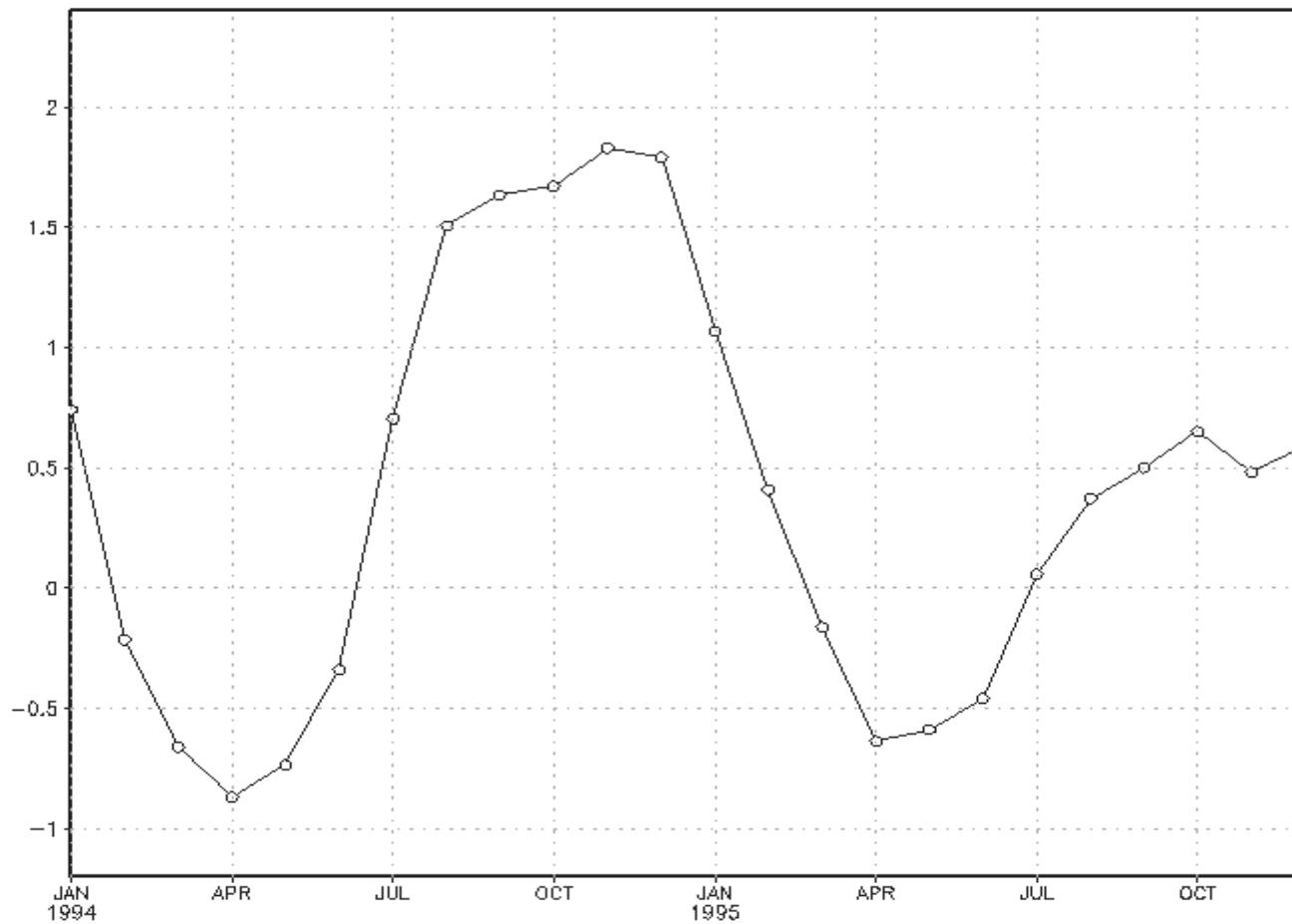
Standard deviation of interannual SST anomaly



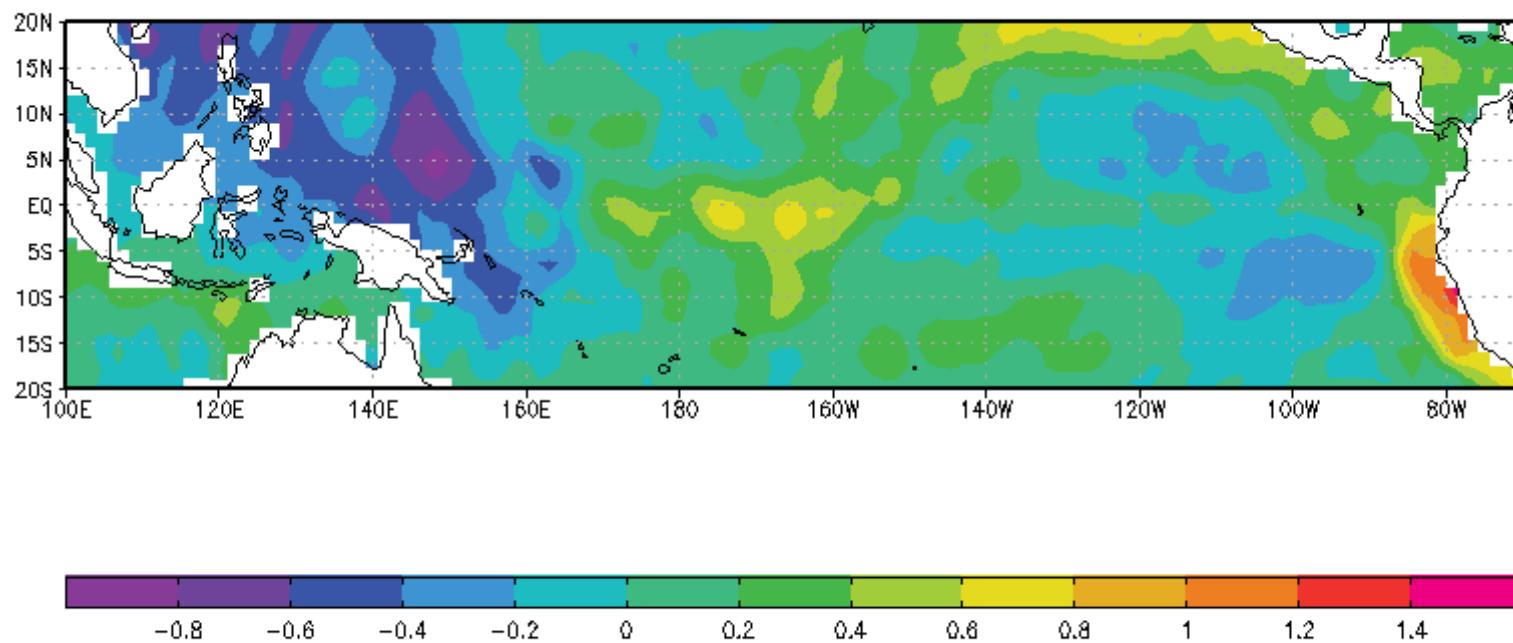
First two EOF modes of Pacific SST



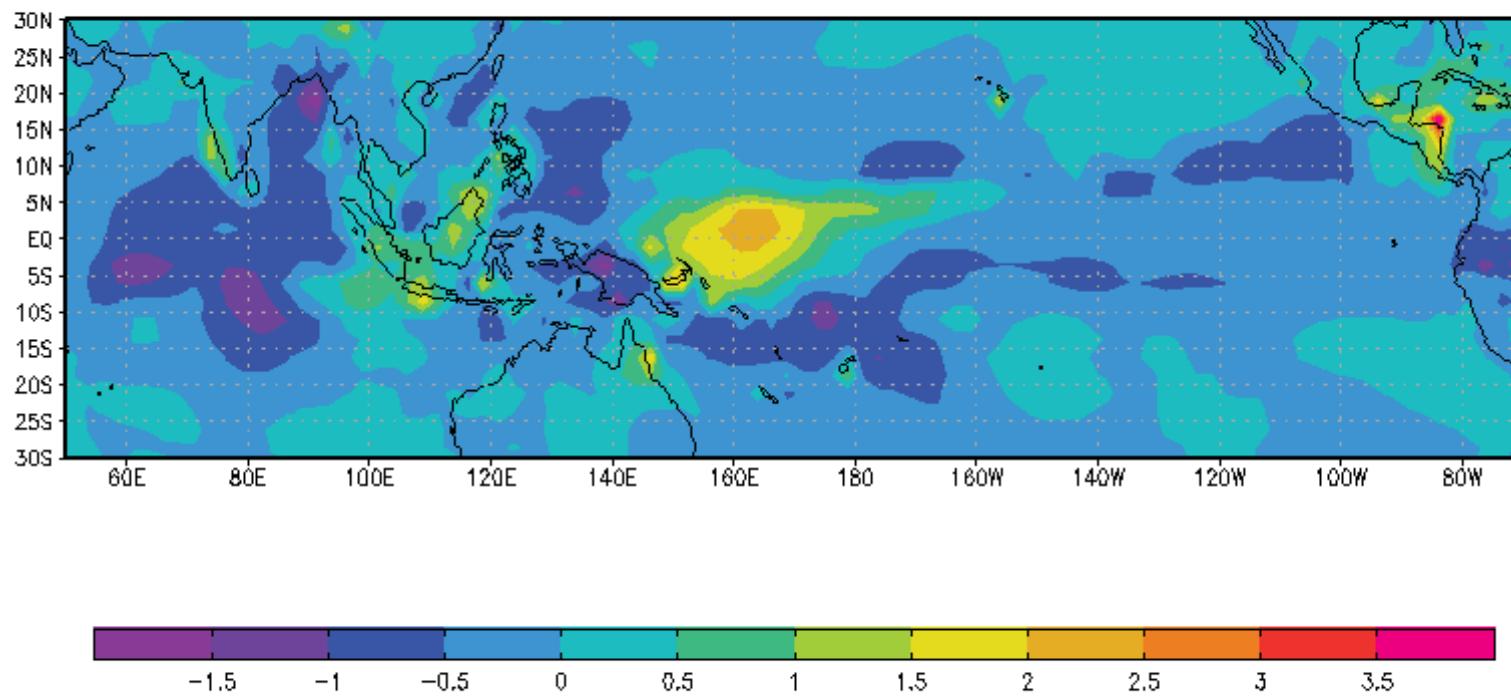
Modoki index 1994-1995



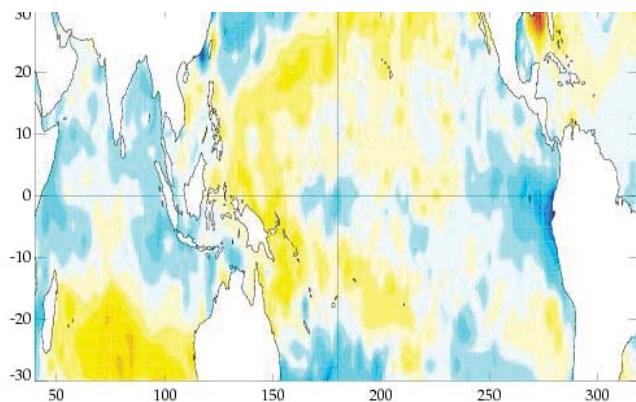
JJAS mean SST anomaly during 1994



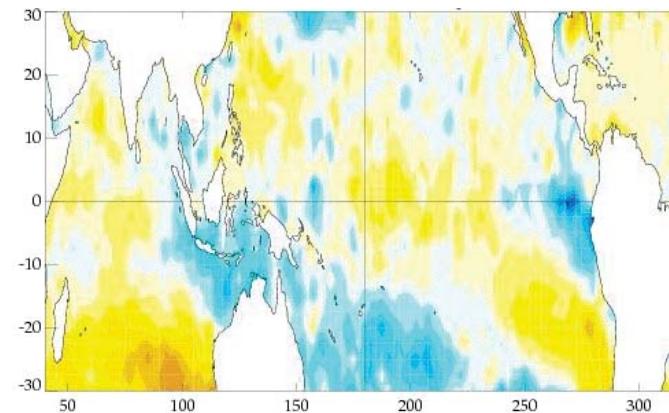
JJAS mean Precipitation anomalies



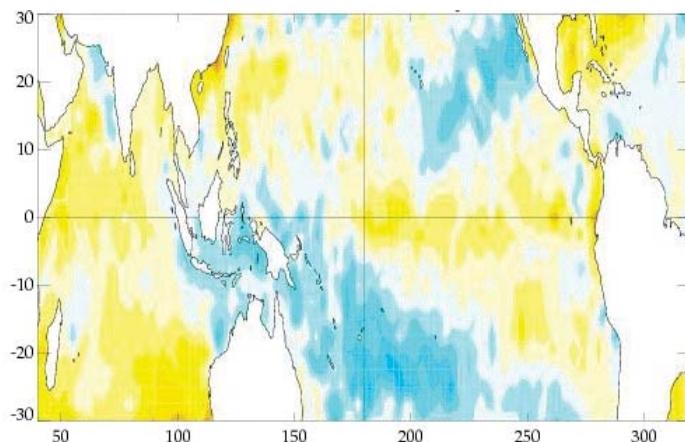
Jan to April



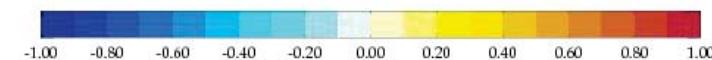
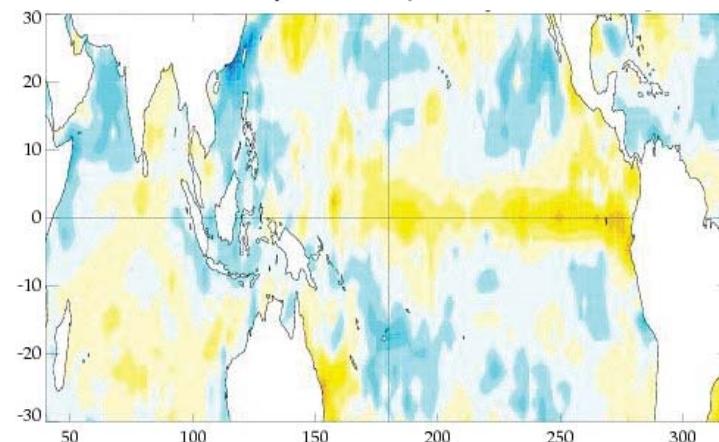
Feb-May



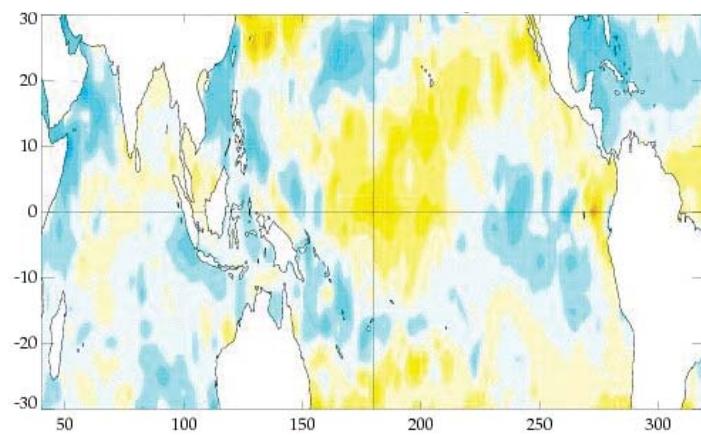
March to June



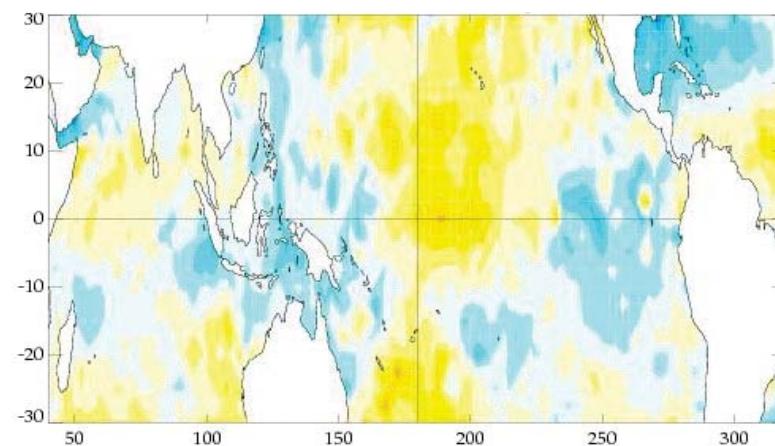
April-July



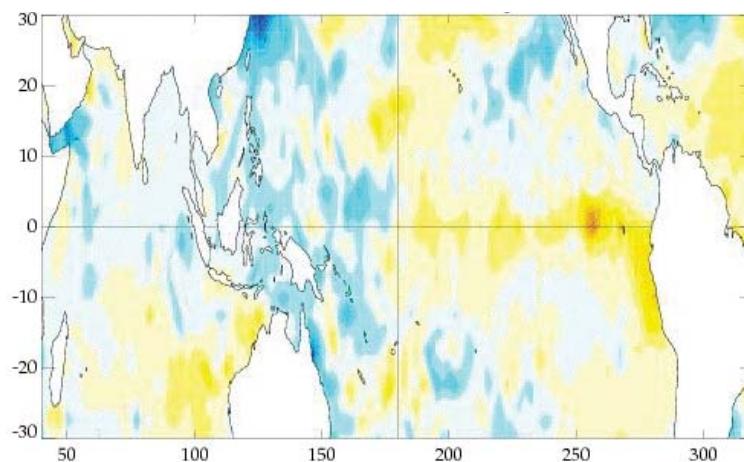
May-August



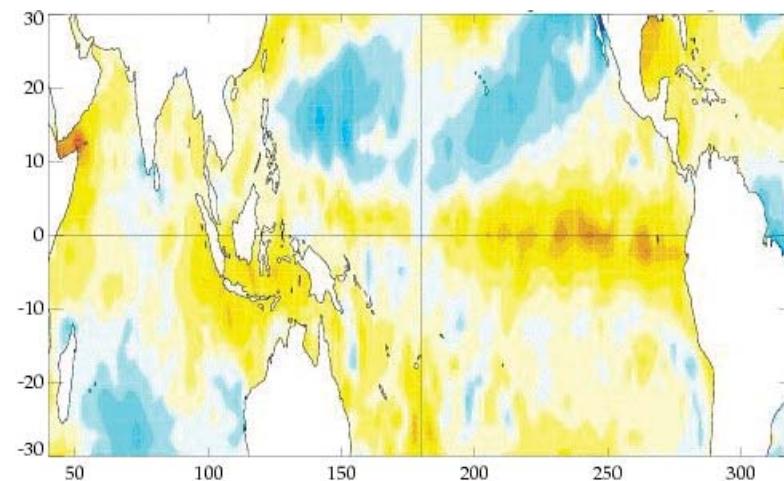
June-September



July-October

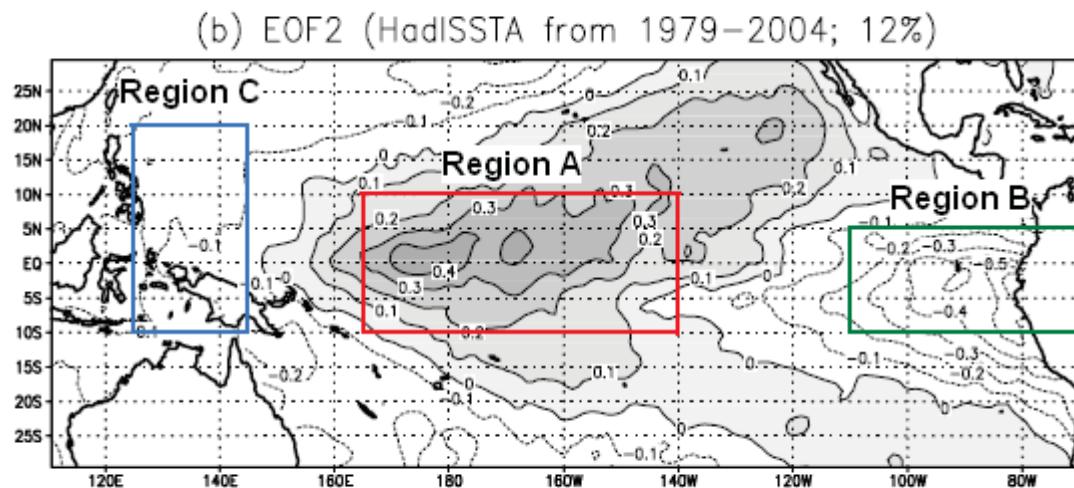


September-December



El Niño Modoki index (EMI)

EL NIÑO MODOKI



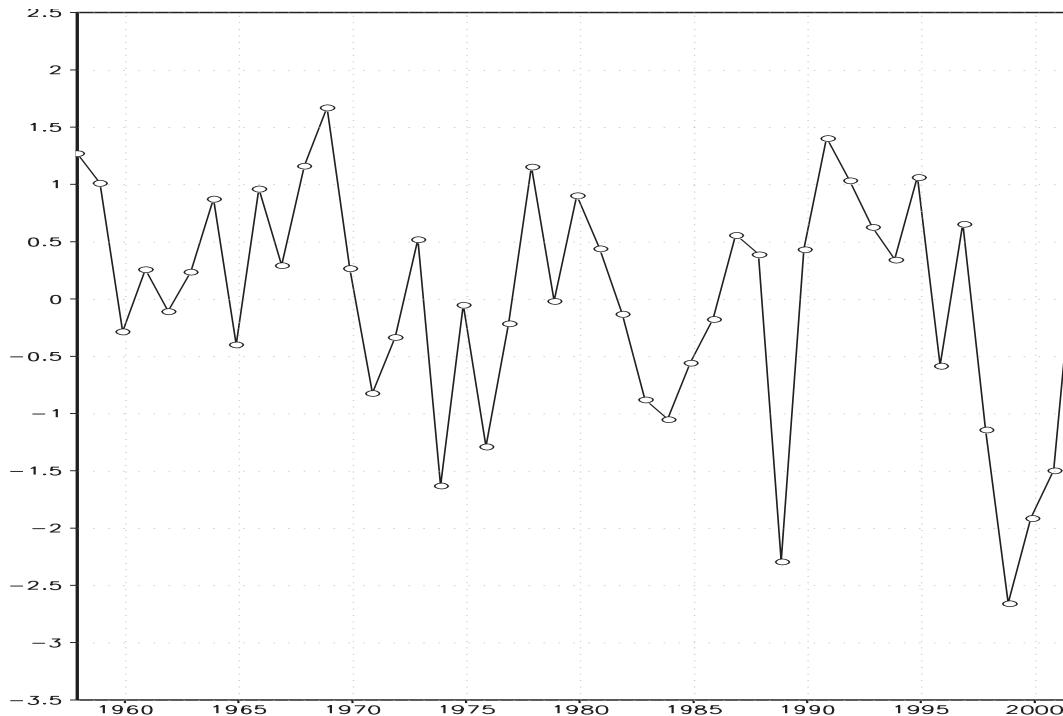
$$\text{EMI} = [\text{SSTA}]A - 0.5 * [\text{SSTA}]B - 0.5 * [\text{SSTA}]C$$

A (165E-140W, 10S-10N)

B (110W-70W, 15S-5N)

C (125E-145E, 10S-20N)

Standardized EMI 1957 – 2001 DJF

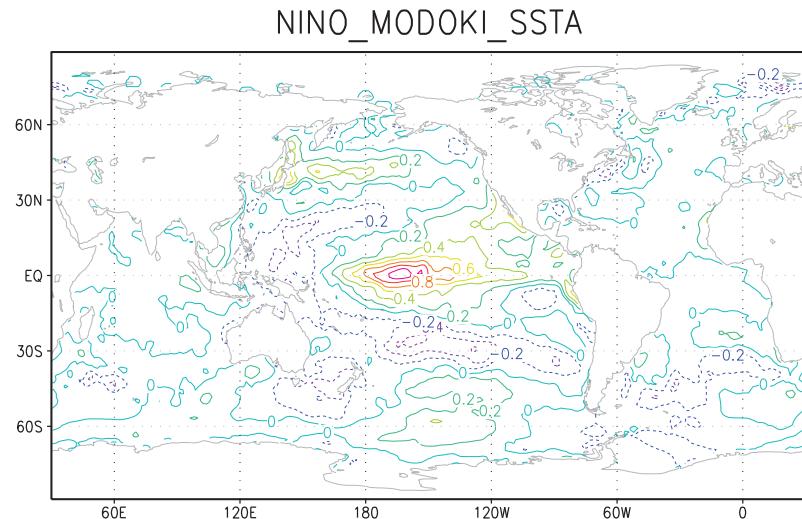


Positive years (EMI ≥ 1): 1957 1958 1965 1967 1968 1977 1990 1991 1994 → 9

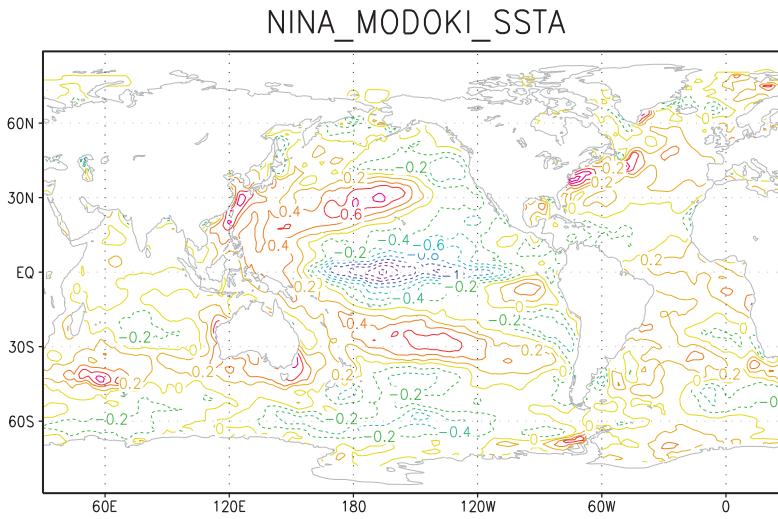
Negative years (EMI ≤ -1): 1973, 1975, 1983, 1988 1997 1998 1999 2000 → 8

SSTA composites

Positive EMI composite:

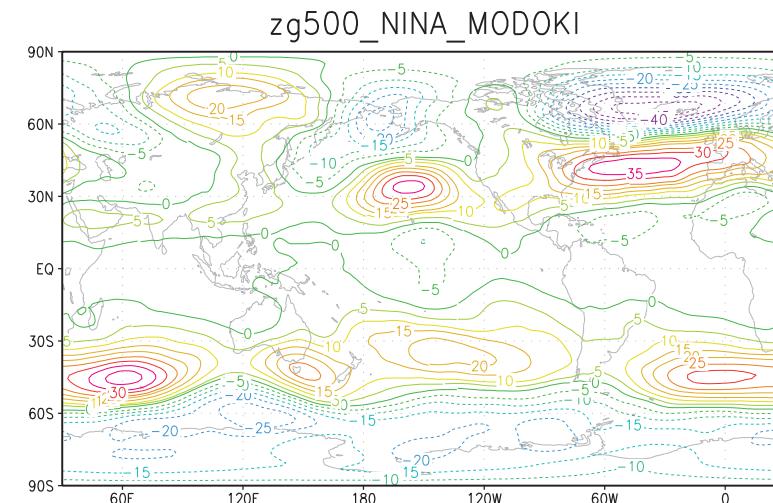
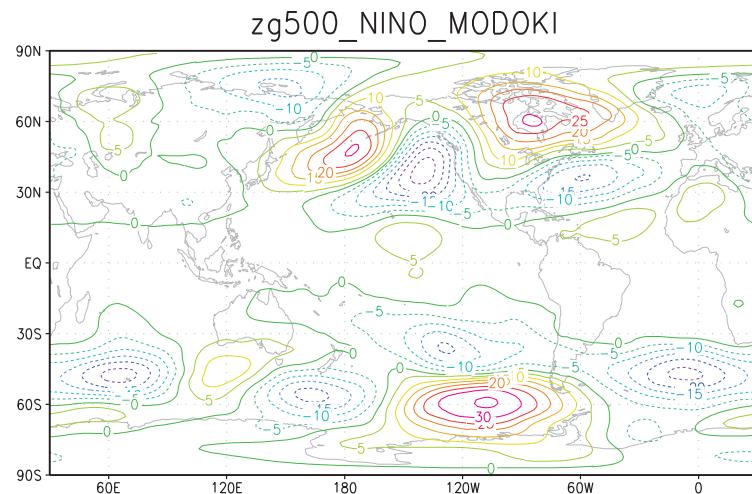


Negative EMI composite:



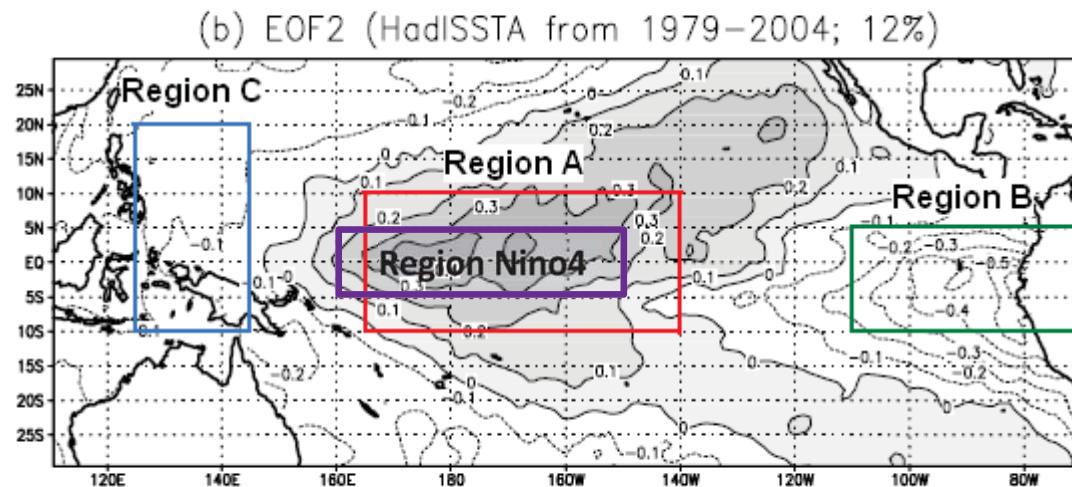
Atmospheric response to the El Niño Modoki forcing

Zg500 DJF composites



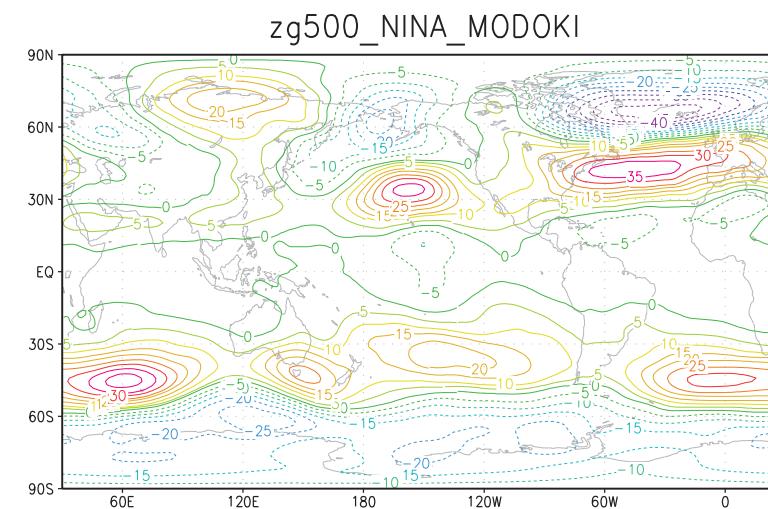
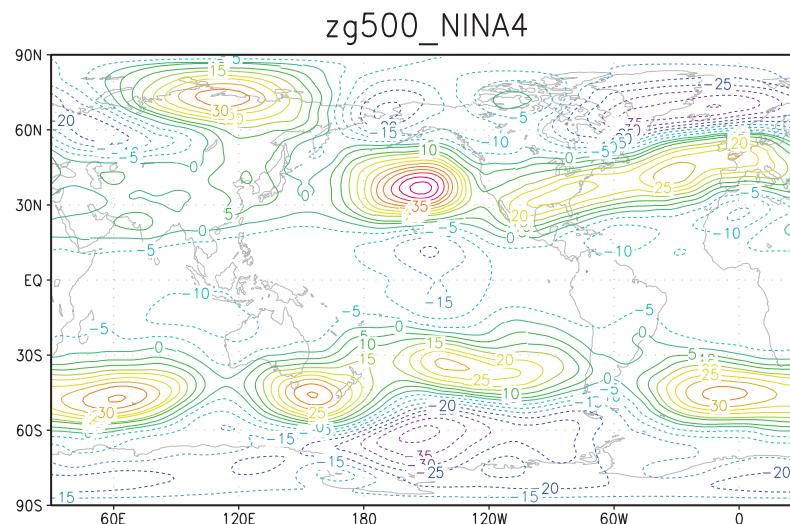
Atmospheric response to El Niño Modoki vs. El Niño4

EL NIÑO MODOKI



Niña4 vs Niña Modoki response

Zg500 DJF composites



Niño4 vs Niño Modoki response

