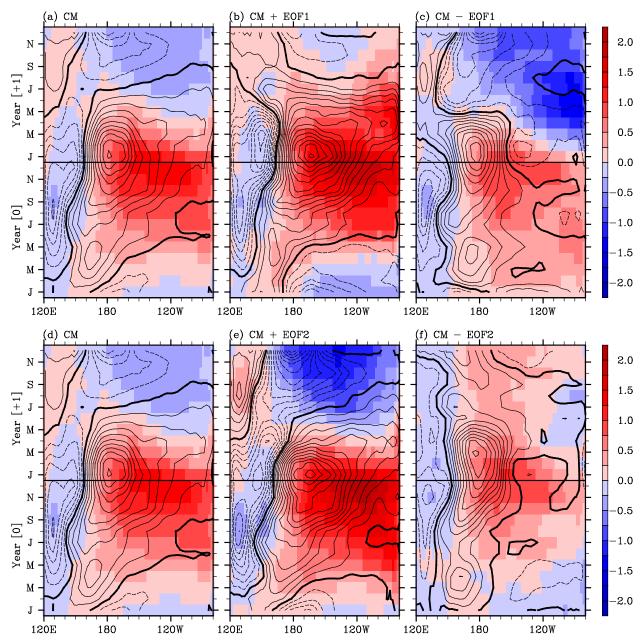


Equatorial Pacific SST Anomalies during El Ninos

Figure S1. Time-longitude plots of the tropical Pacific SST anomalies averaged between 5°S and 5°N for 21 El Niños that occurred during 1949-2013, derived from ERSST3. Units are °C.



SST and PREC Linked to Two Leading Modes

Figure S2. Time-longitude plots of the equatorial Pacific SST (color shade) and rainfall (contour) anomalies averaged between 5°S and 5°N, for (a) CM, (b) CM+EOF1, (c) CM-EOF1, (e) CM+EOF2, and (f) CM-EOF2 of the 21 El Niños during 1949–2013. NOAA's precipitation reconstruction [Chen et al., 2002] is used to compute the rainfall anomalies. The units are °C for SST, and mm day⁻¹ for rainfall.

References

Chen, M., P. Xie, J. E. Janowiak, and P. A. Arkin (2002), Global land precipitation: A 50-yr monthly analysis based on gauge observations, *J. Hydrometeor.*, *3*, 249-266