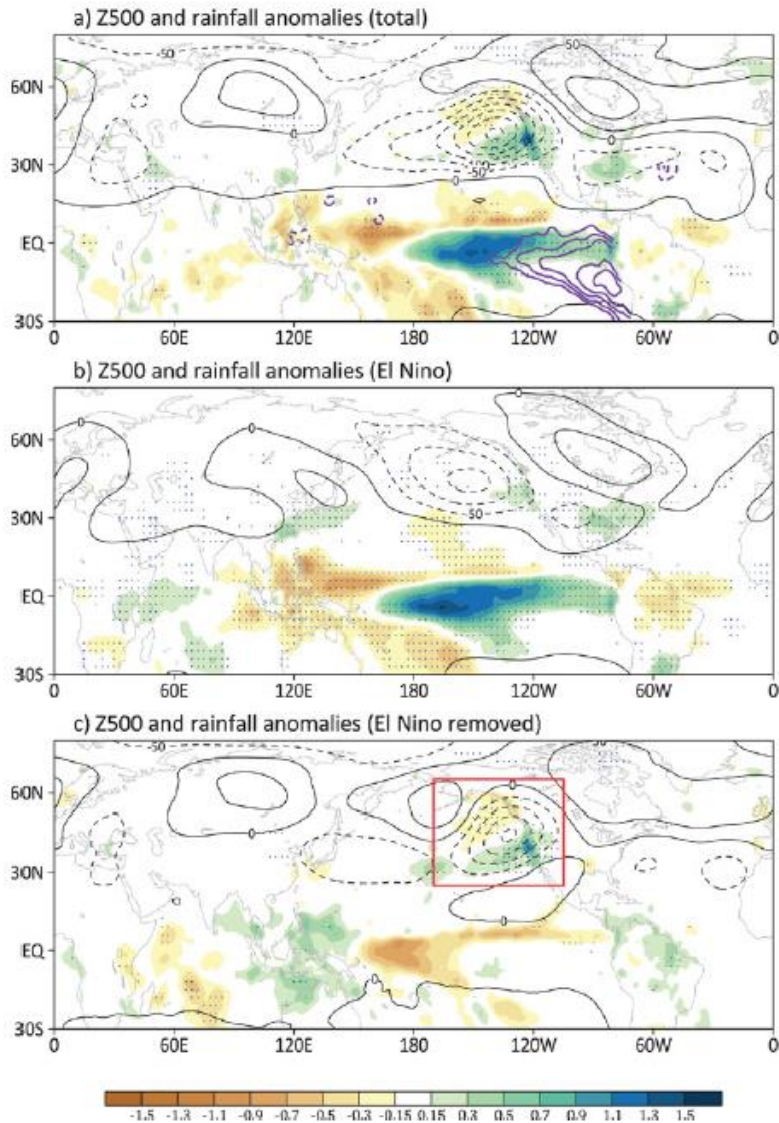


# Source for Seasonal Prediction of California Winter Precipitation

- Only about 25% of interannual variability of CA winter precipitation can be attributed to influences by El Niño–Southern Oscillation (ENSO).
- The year-to-year CA winter precipitation variability is primarily due to circulation anomalies independent from ENSO, featuring a circulation center over the west coast United States as a portion of a short Rossby wave train pattern over the North Pacific.



Jiang, X., Waliser, D. E., Gibson, P. B., Chen, G., & Guan, W. (2022). Why Seasonal Prediction of California Winter Precipitation Is Challenging. *Bulletin of the American Meteorological Society*, 103(12), E2688–E2700. <https://doi.org/10.1175/BAMS-D-21-0252.1>