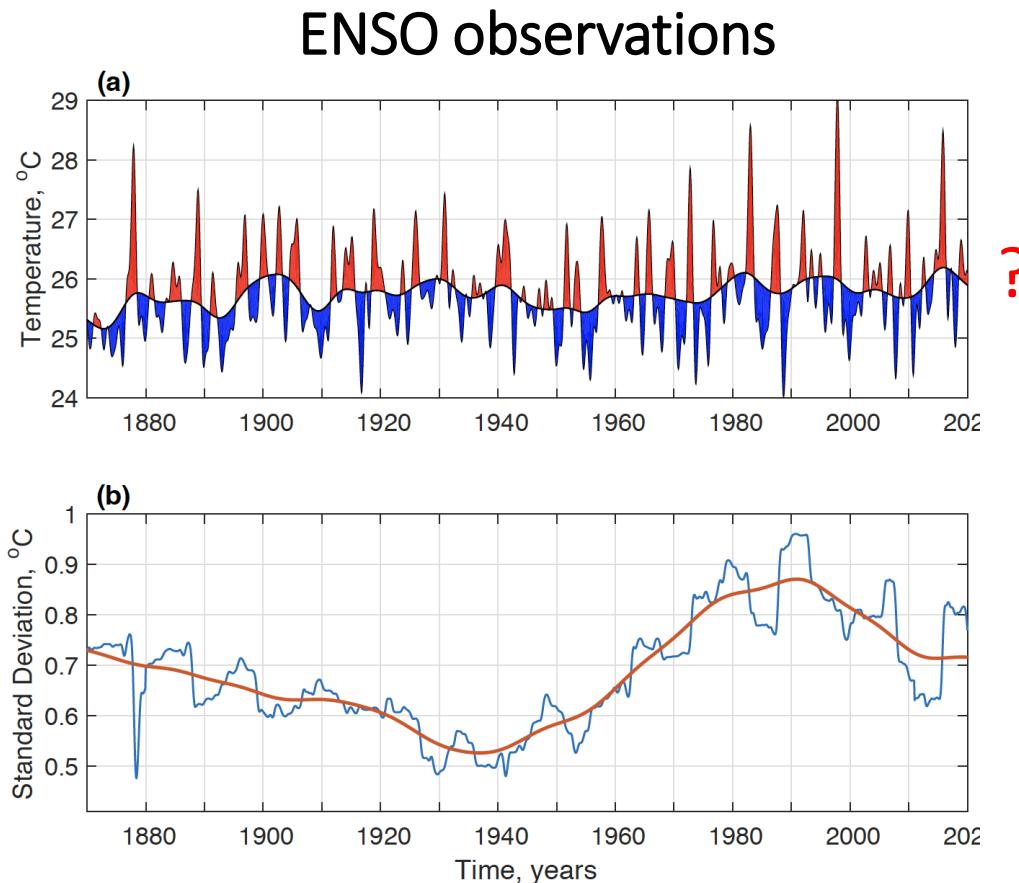
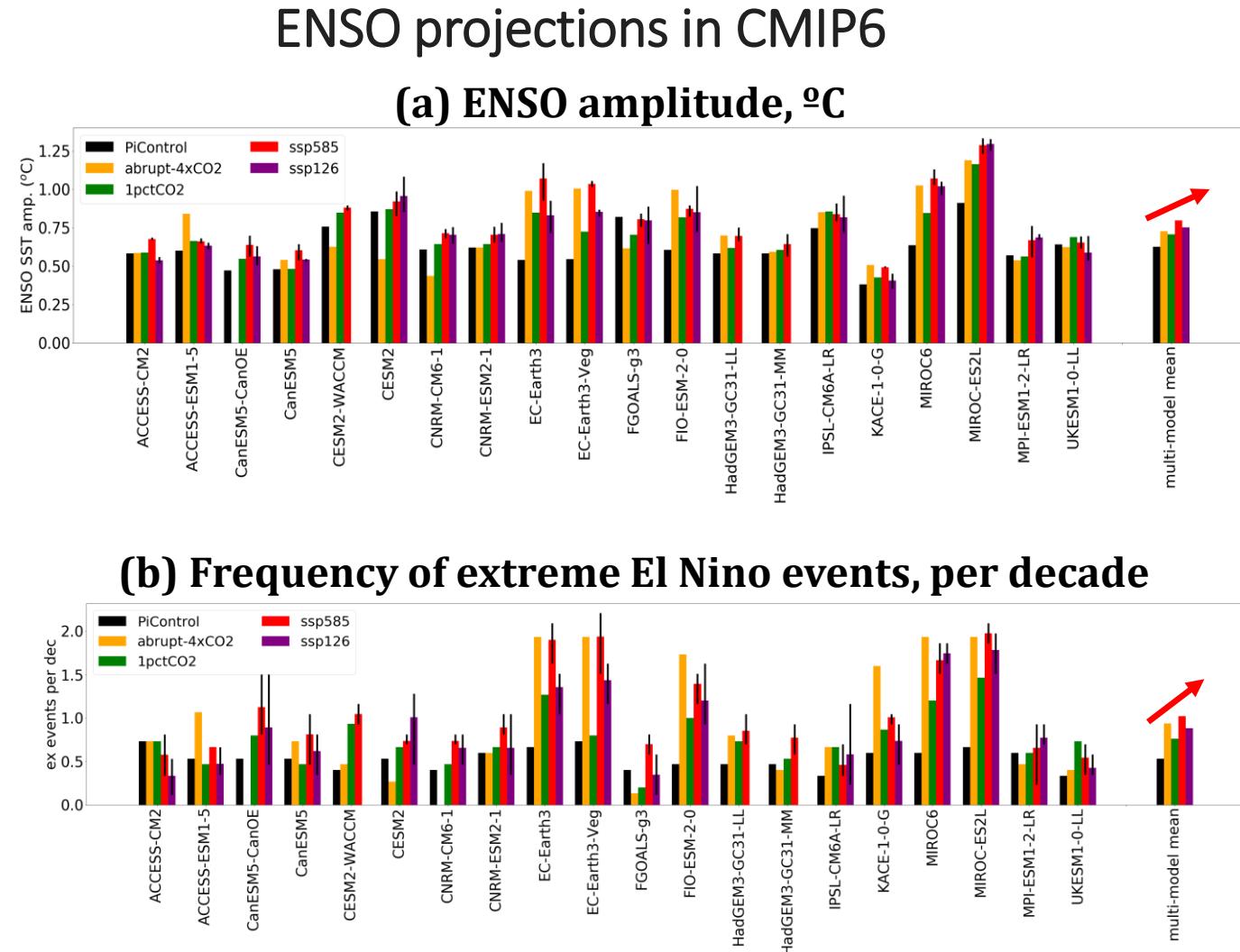


# Understanding the robust strengthening of ENSO and more frequent extreme El Niño events under global warming

PI: Alexey Fedorov (Yale)  
co-PI: Eli Tziperman (Harvard)

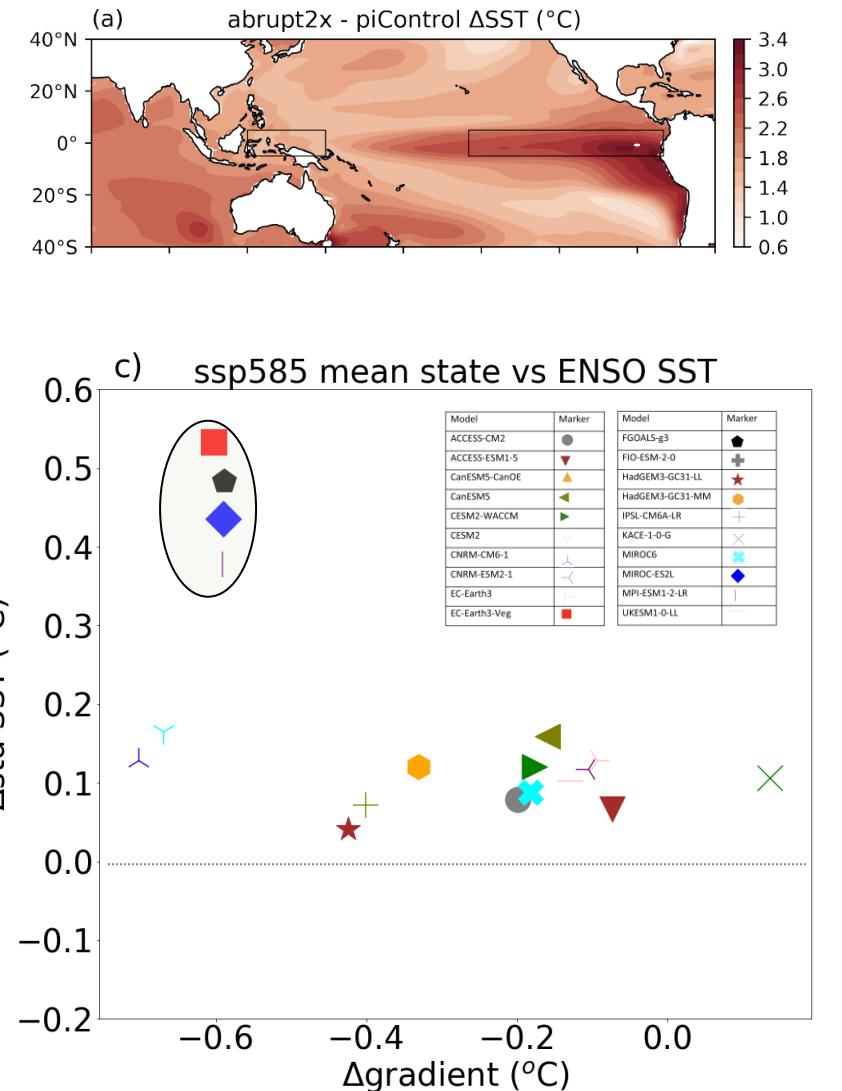


Fedorov et al. 2020



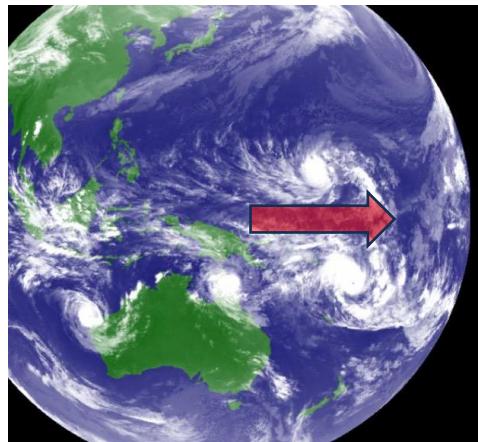
Heede and Fedorov, Clim Dyn 61, 3047–3060, 2023

## Changes in the tropical mean state: East Equator Pacific warming pattern

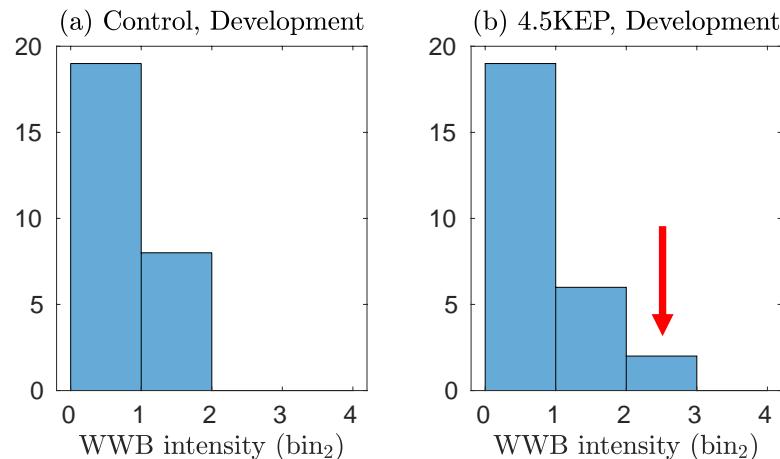


Heede and Fedorov 2023

## Strengthening of westerly wind bursts

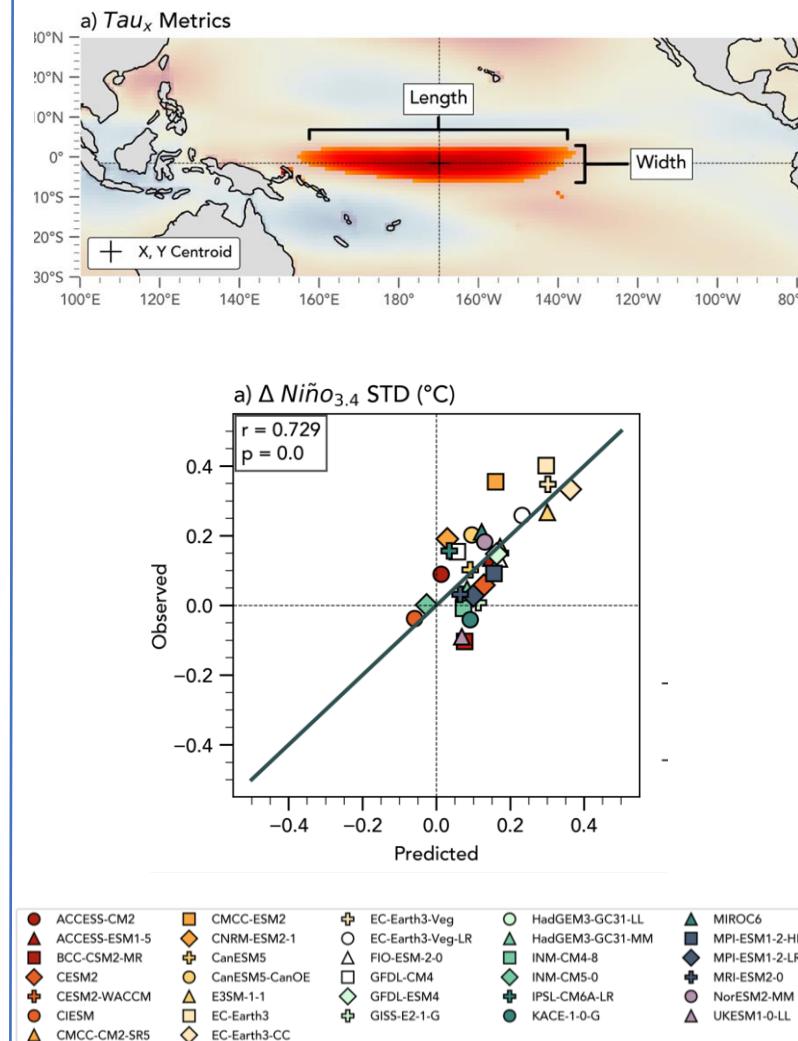


AGCM simulations



Liang and Fedorov 2024

## Changes in the structure of ENSO wind-stress anomalies



Stuivenvolt-Allen et al. 2024