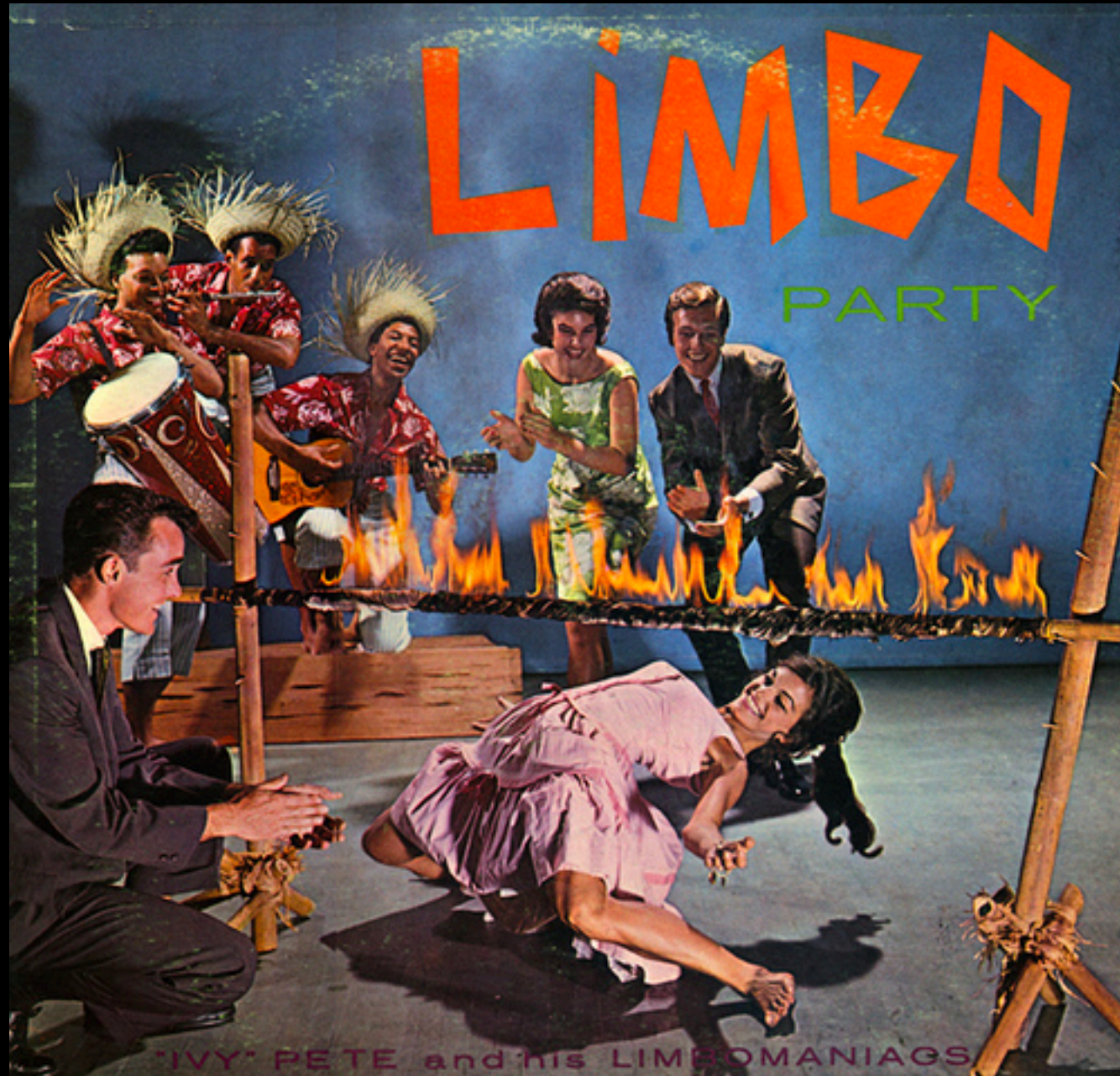


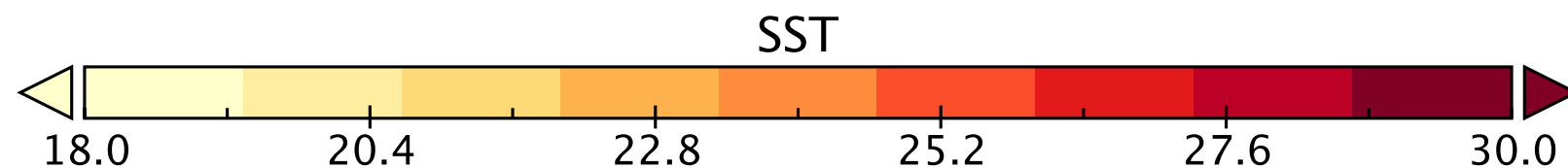
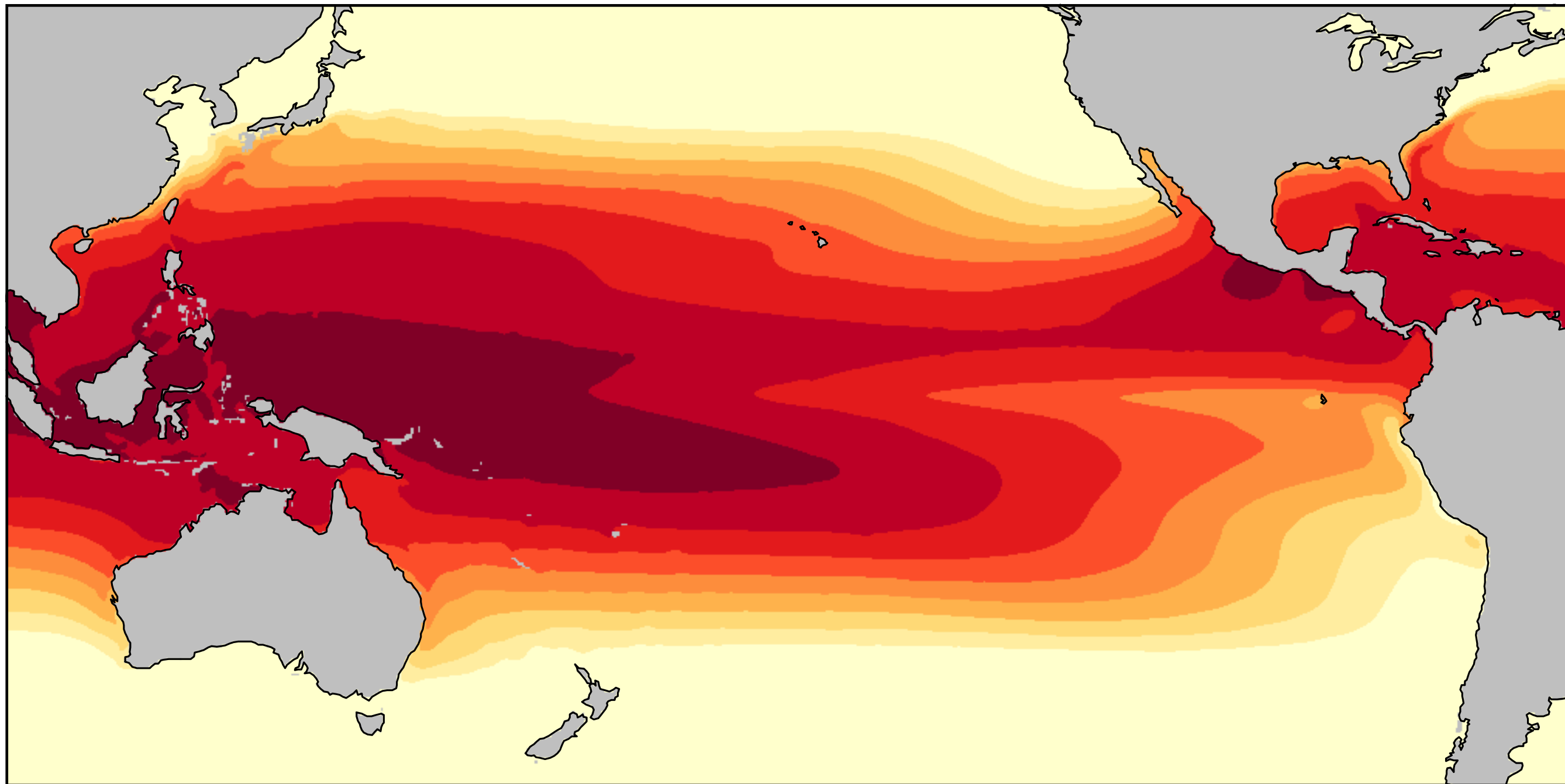
How low you can you go?



(Can you get to permanent El Niño?)

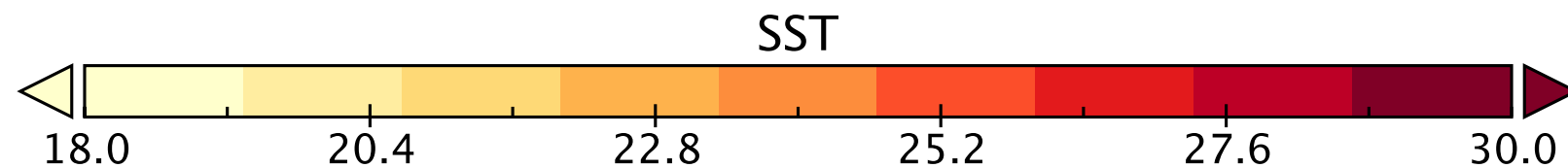
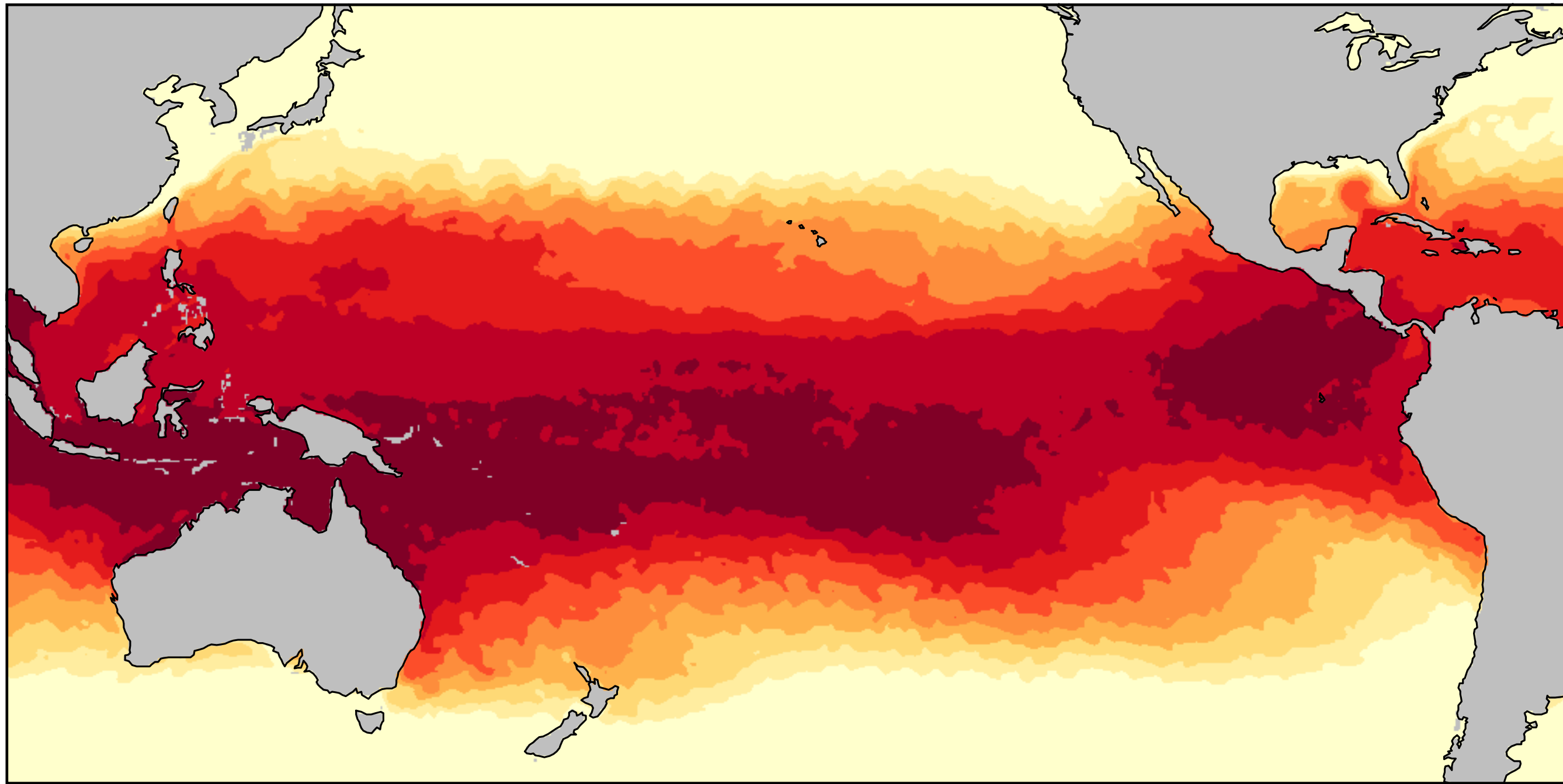
The Pliocene “permanent El Niño”

Normal present-day Pacific SSTs

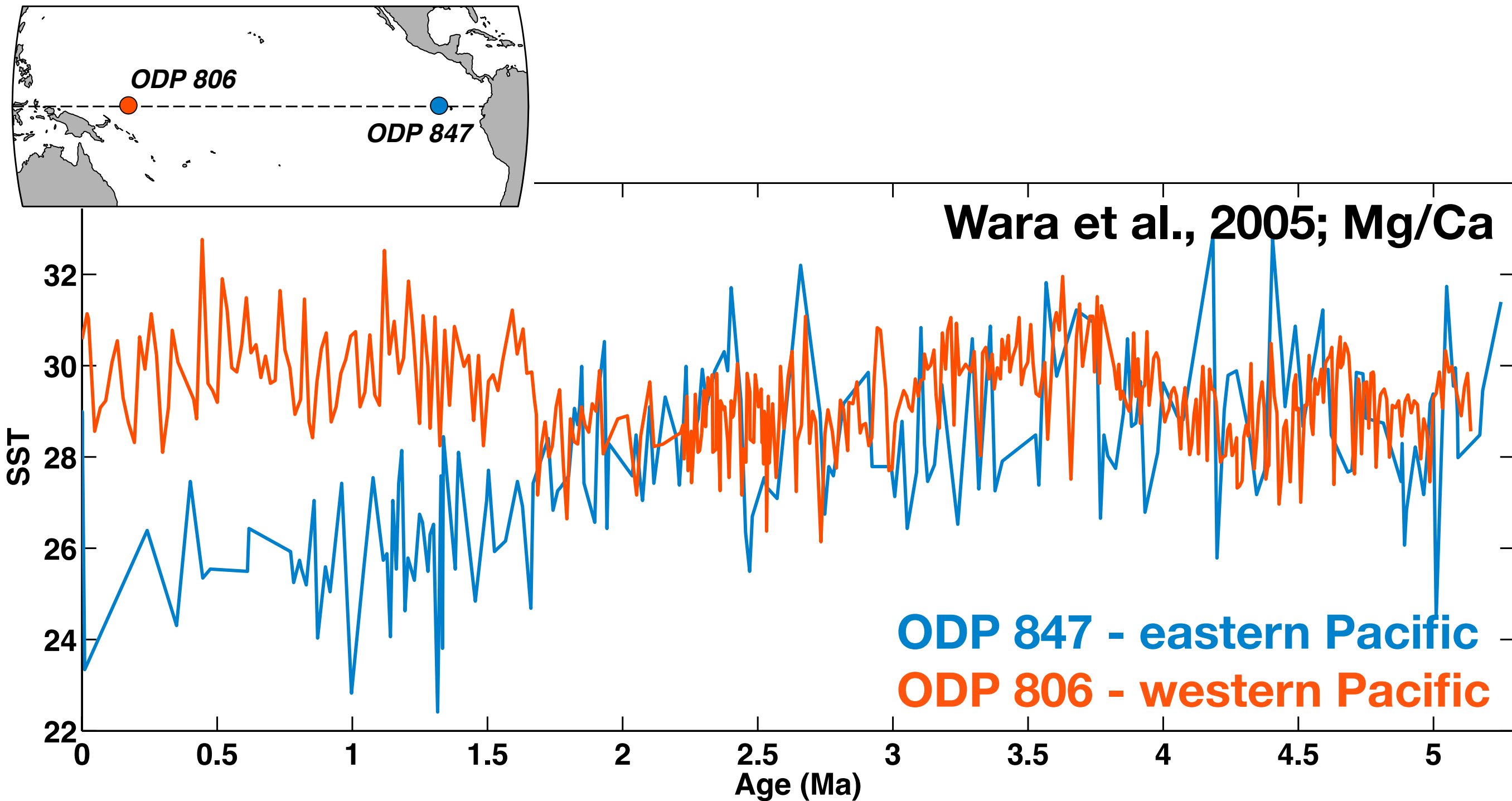


The Pliocene “permanent El Niño”

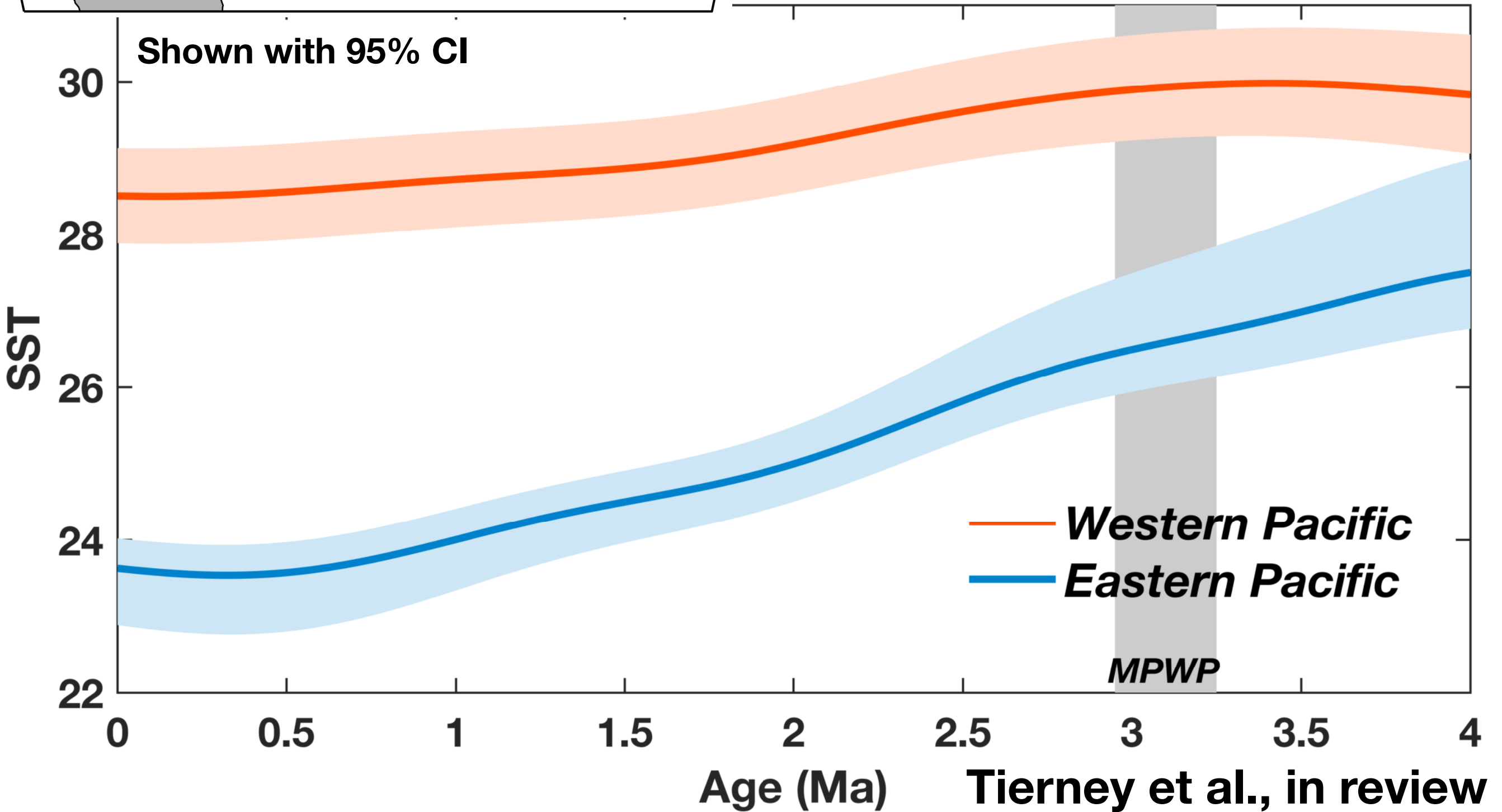
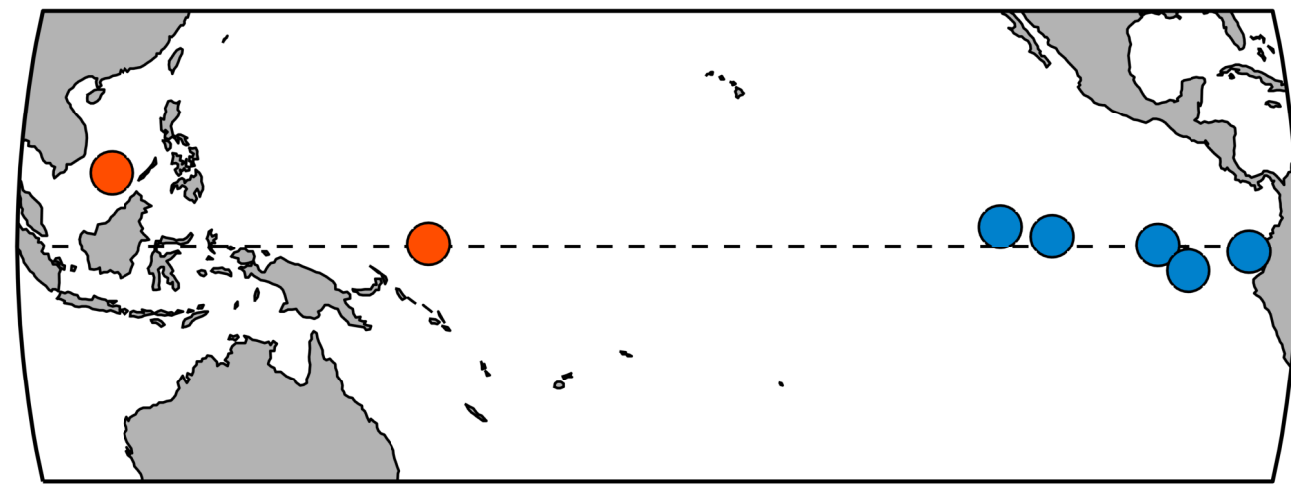
December 1997 El Niño



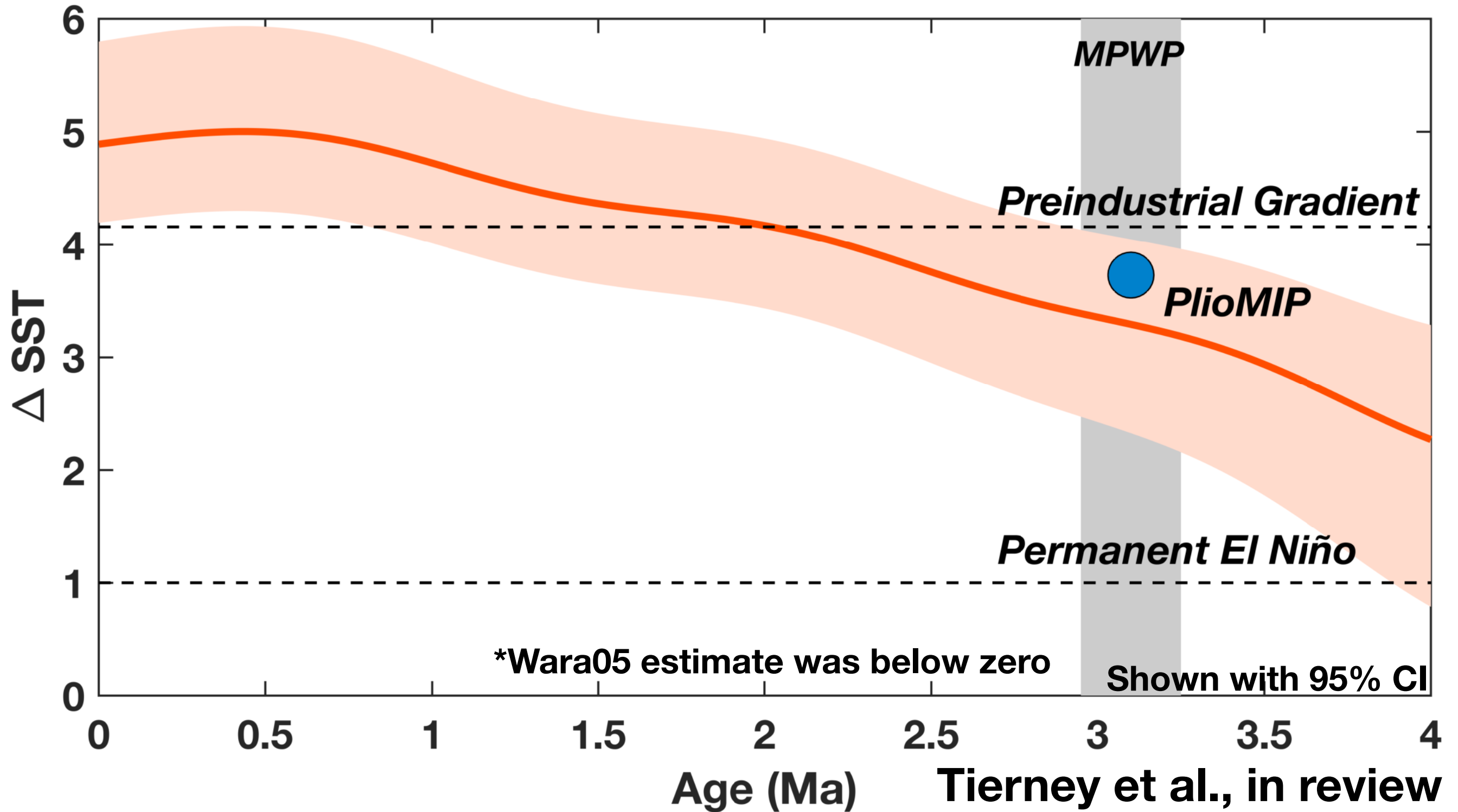
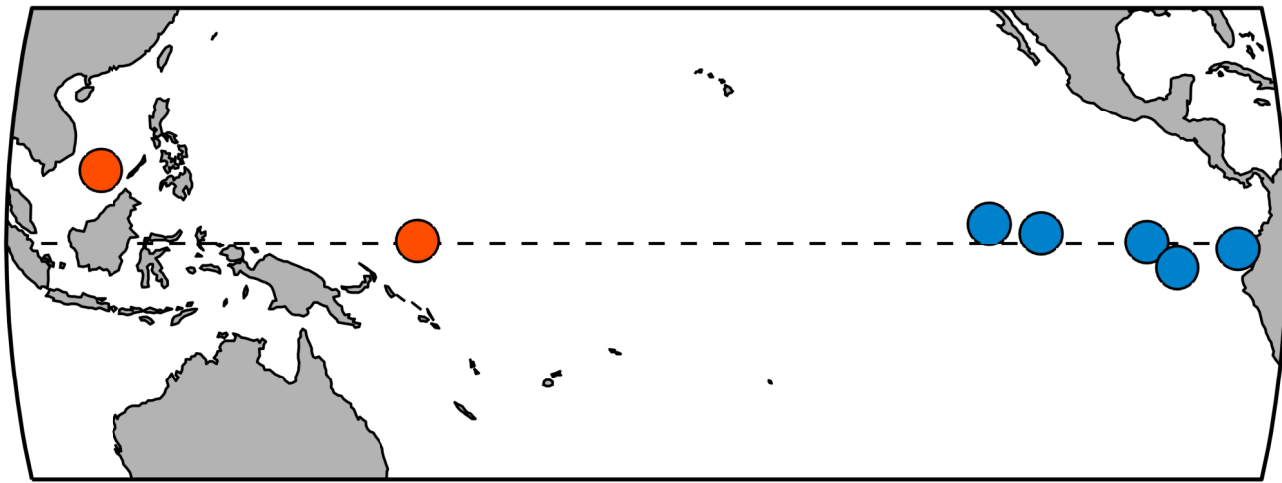
The Pliocene “permanent El Niño”



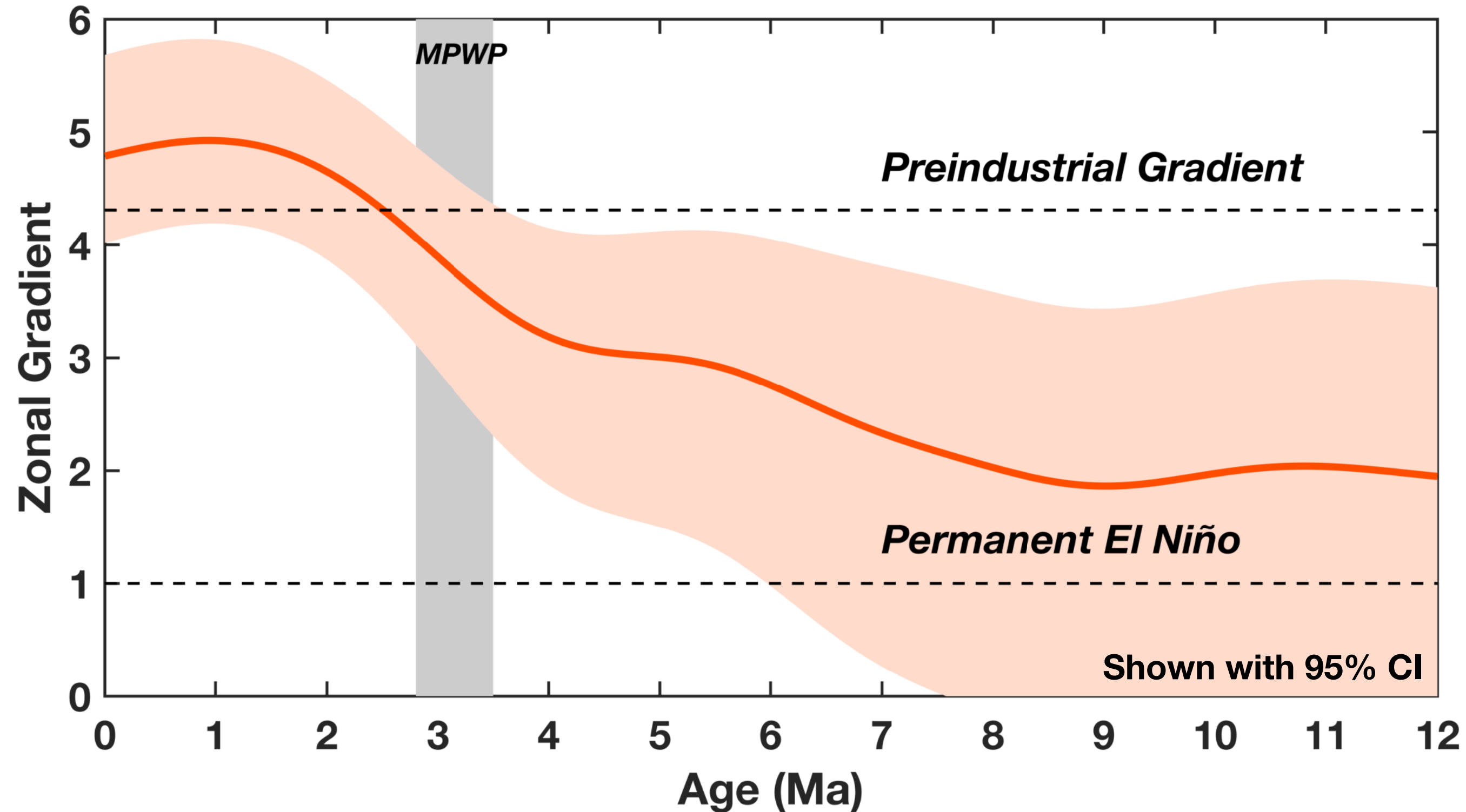
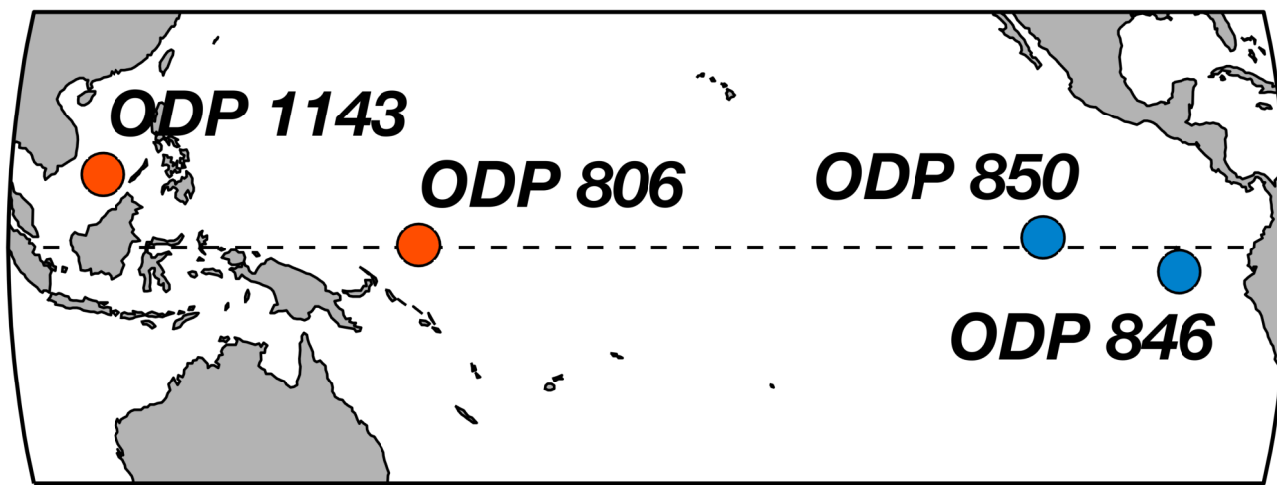
New view based on alkenones



Pacific zonal gradient



Going back further...



How low can you go?

