We use the SST bias correction method to look at hurricane statistics in a changing climate. For present day, we use observed SSTs and for future climate, we use SST bias corrected SSTs from RCP8.5. Correcting the SSTs bias

Method
We use 1° present-day coupled runs to produce corrected SSTs timeseries. Climatological monthly biases with respect to observations are calculated from the 1° coupled run SSTs. Then we use the SST bias to generate corrected SST timeseries for present and future runs.

Assumptions:
- the SST bias is similar during 20th and 21st.
- the SST bias is similar across resolutions

Climatological monthly biases  
Bias corrected SST timeseries

Testing

SST biases correction improves features of simulated regional climate.
We compare AMIP runs using:
- Observed SSTs
- Coupled SSTs
- Bias corrected SSTs

Applications

We use the SST bias correction method to look at hurricane statistics in a changing climate. For present day, we use observed SSTs and for future climate, we use SST bias corrected SSTs from RCP8.5.