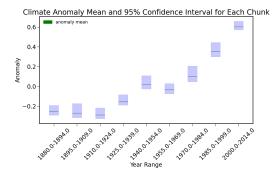
[n [ ]:

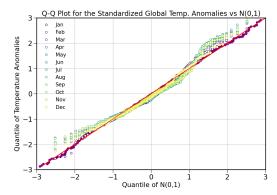
## **ReadME**

- This is a compilation of small projects done for Climate Modeling.
- All datasets used are sourced:
  - Hansen\_Global and Jones\_Global
  - NCEP Monthly Mean and Anomalies
  - NOAA Global Temperature SAT
- · Results shows:
  - data valadity of both Hansen and Jones data
  - Q-Q plot of the Jones data to show each month's standarized global temperature anomalies.
  - NCEP Monthly Mean and Anomalies datas are used to show different modes of EOF and PC from 1948 to 2015
  - The Area Weigthed Average from 1880 to 2017 of the Southern Hemisphere are computated from using NOAA Global Temperature. Yearly and specified months are shown.
  - The De-trended Area Weighted Average Annual is also computated.

## Hansen and Jones Global Data



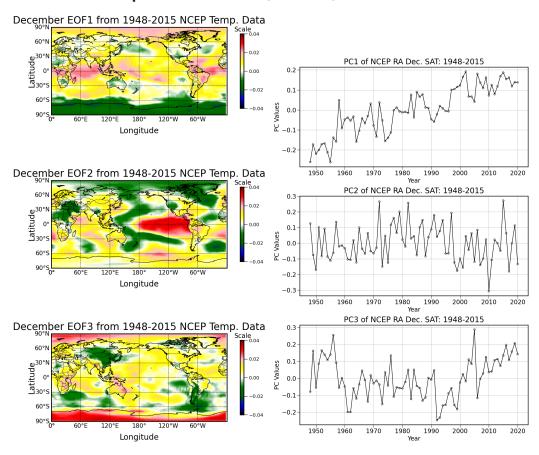
• From using the dataset produced by Hansen and Jones global data, the are checked to ensure data validity (with years in blocks).



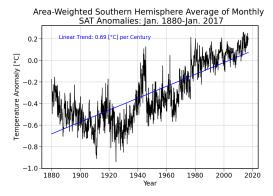
• Q-Q plot of the standard deviation of Jones Global dataset.

## **NCEP Anomaly Mean and Monthly**

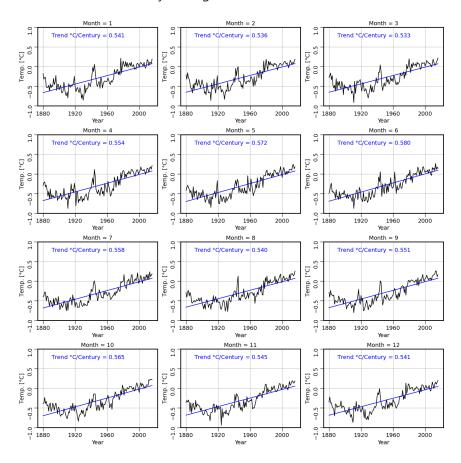
NCEP Temperature Data (Modes)



- EOF and PC paired showing the temperature have been rising throughout the years.
- Area Weighted Monthly Average (Southern Hemisphere)



Here is the monthly average from 1880 to 2017.



- Here is the average at each specified month (1 Jan., 2 Feb., ..., 12 Dec.) from 1880 to 2017.
- De-Trended Area Weighted Average Annual SAT

