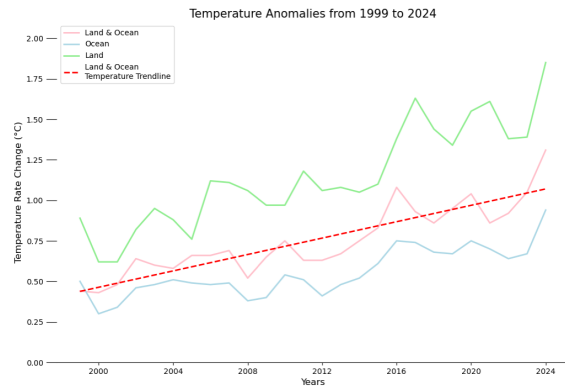
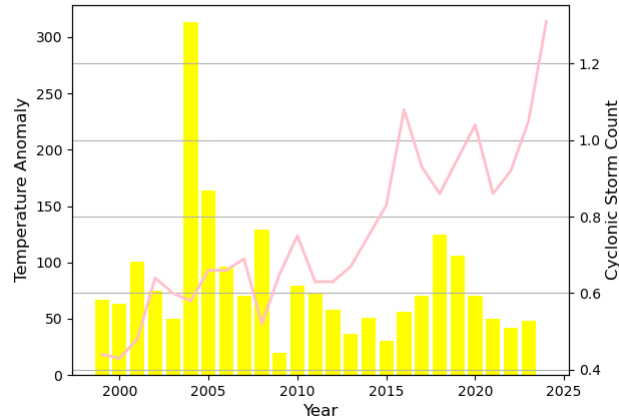


## What Is The Effect Of The Earth's Temperature on Cyclonic Storms?

- Anomaly: Change from 30 years average
- Earth's temperature is getting warmer in past 25 years.
- Both Land and Ocean temperatures are getting warmer.
- This leads to more cyclonic storms.

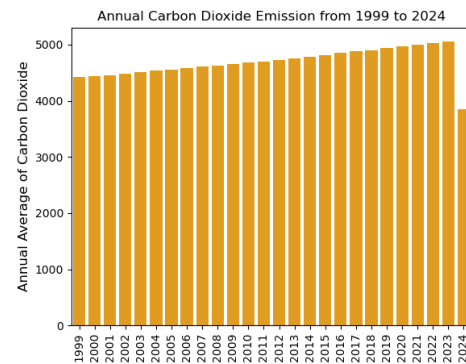
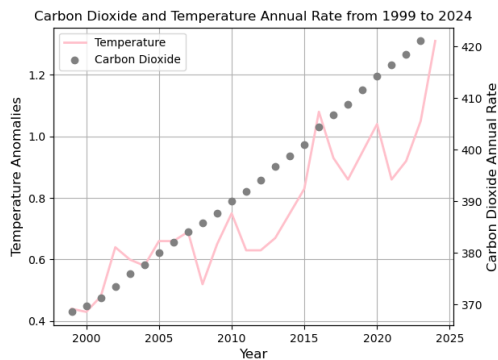
Total Cyclonic Storms Count & Overall Anomalies from 1999 to 2024



1

## Carbon Dioxide Impact

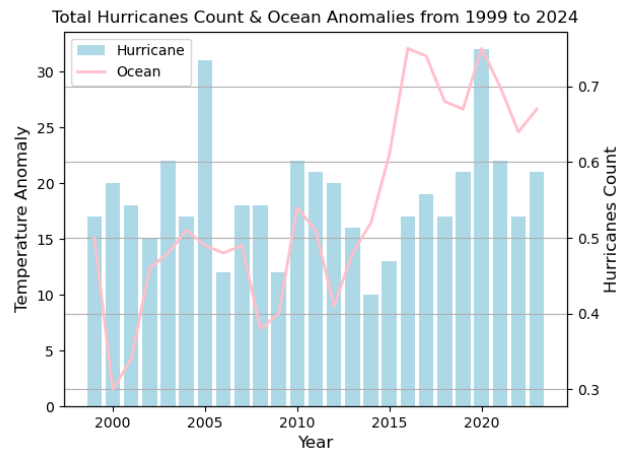
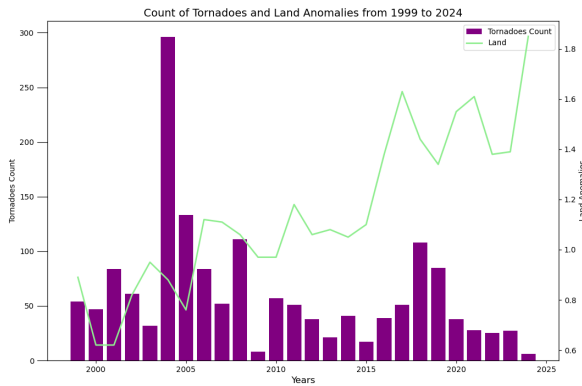
- As anomalies get higher, the carbon dioxides increases as well.
- With higher emissions of carbon dioxides, the climates become warmer.
- This becomes a breeding ground for cyclonic storms.



2

# Hurricanes & Tornadoes

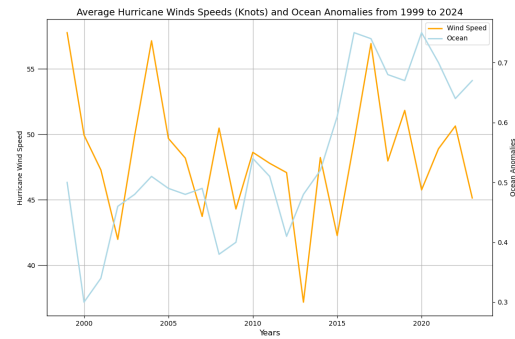
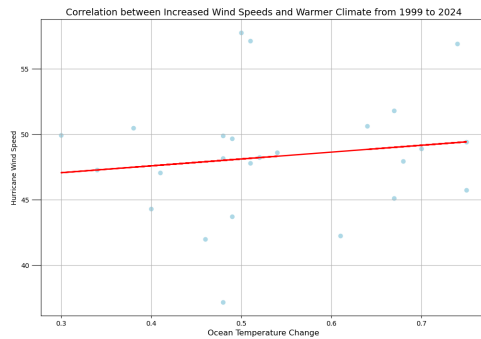
- Because of the warmer climates, there are more cyclonic storms developed over time.



3

# Cyclonic Storm Strength

- As temperatures get warmer, the wind speed of cyclonic storms get stronger.
- This leads to more powerful hurricanes and tornadoes.



4

## Speaker notes

- I located all data sources from National Oceanic and Atmospheric Administration.
- I used python packages to perform data preparation and data visualization.
  - pandas and numpy packages to extract and transform the unstructured data sets.
  - matplotlib and seaborn package to create data visualizations to display the effect of earth's temperature.
  - Datetime package to cleanse the date