

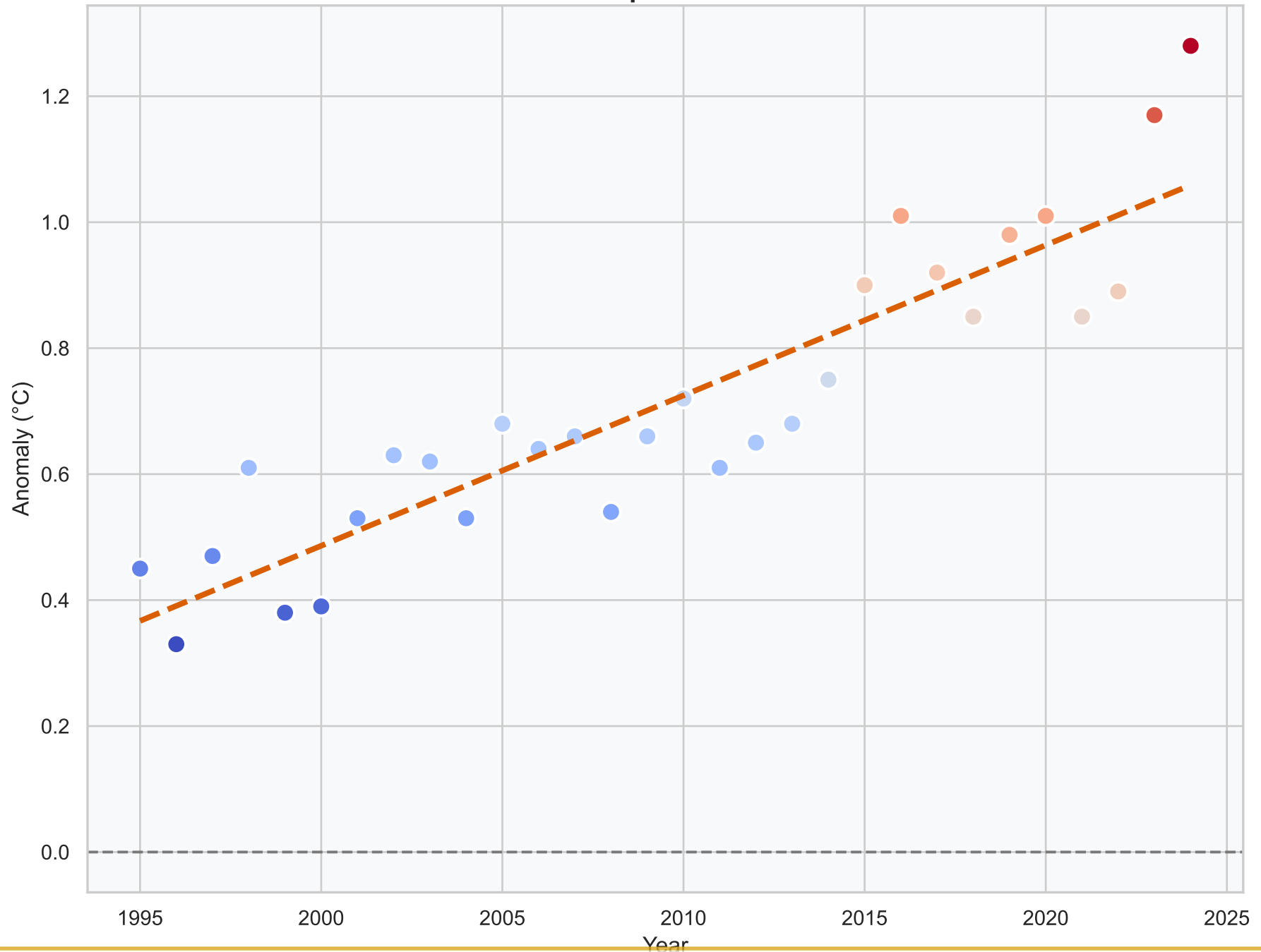
□ Climate Change & Hurricanes □

Exploring Temperature and Hurricane Trends (1995–2022)

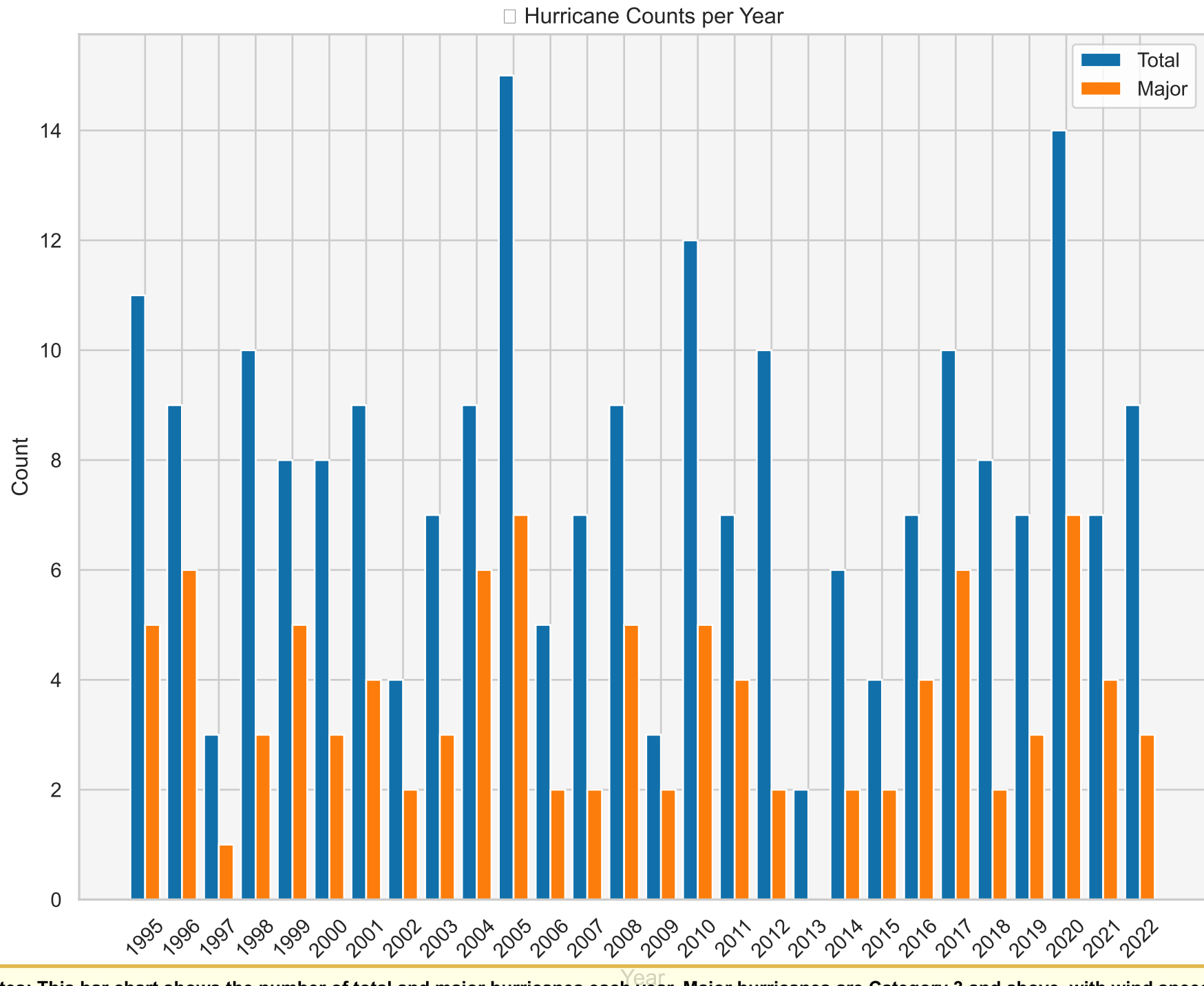
DATA 608 - Story 5 Presentation

By: UMAIS SIDDIQUI

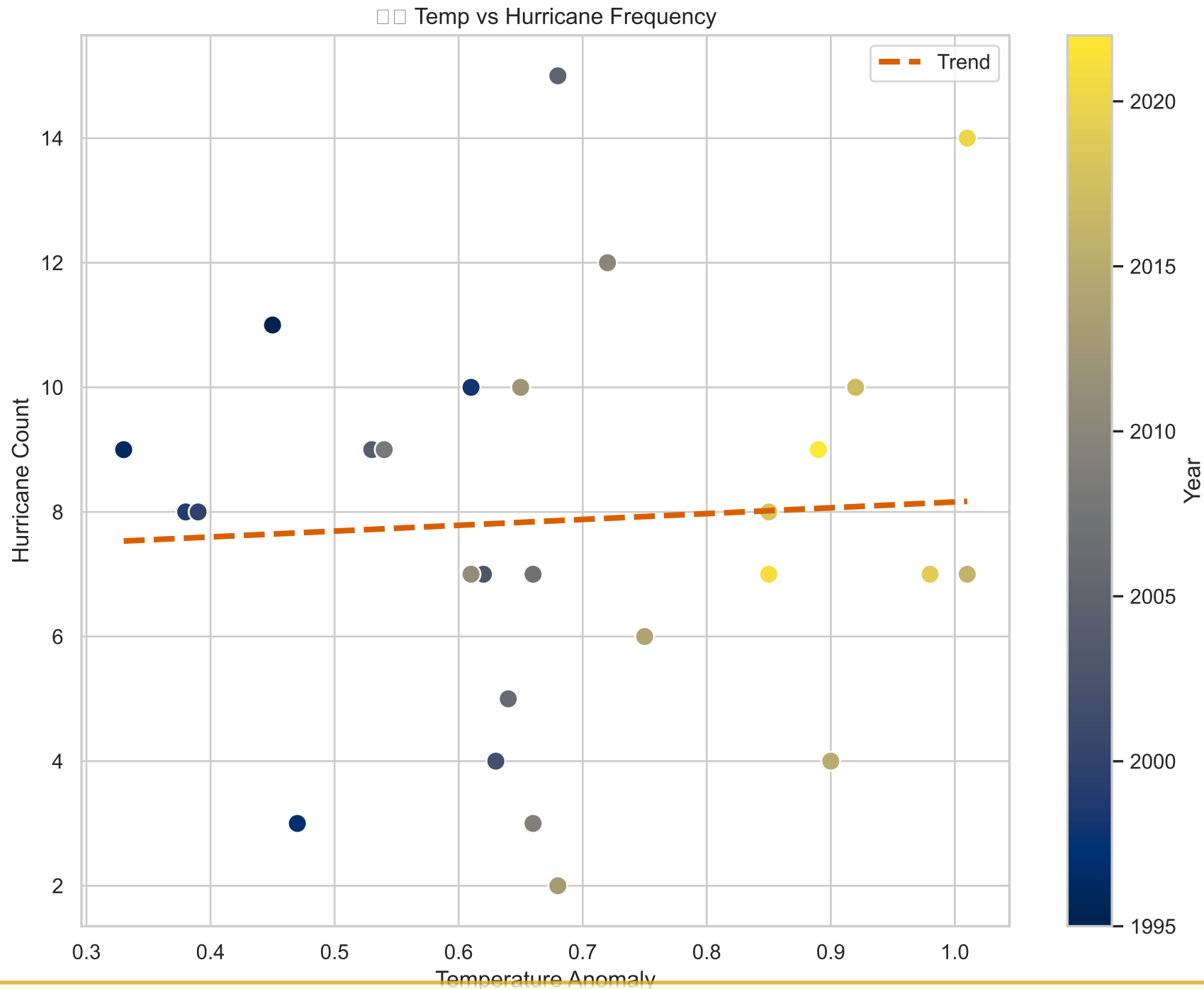
Global Temperature Anomalies



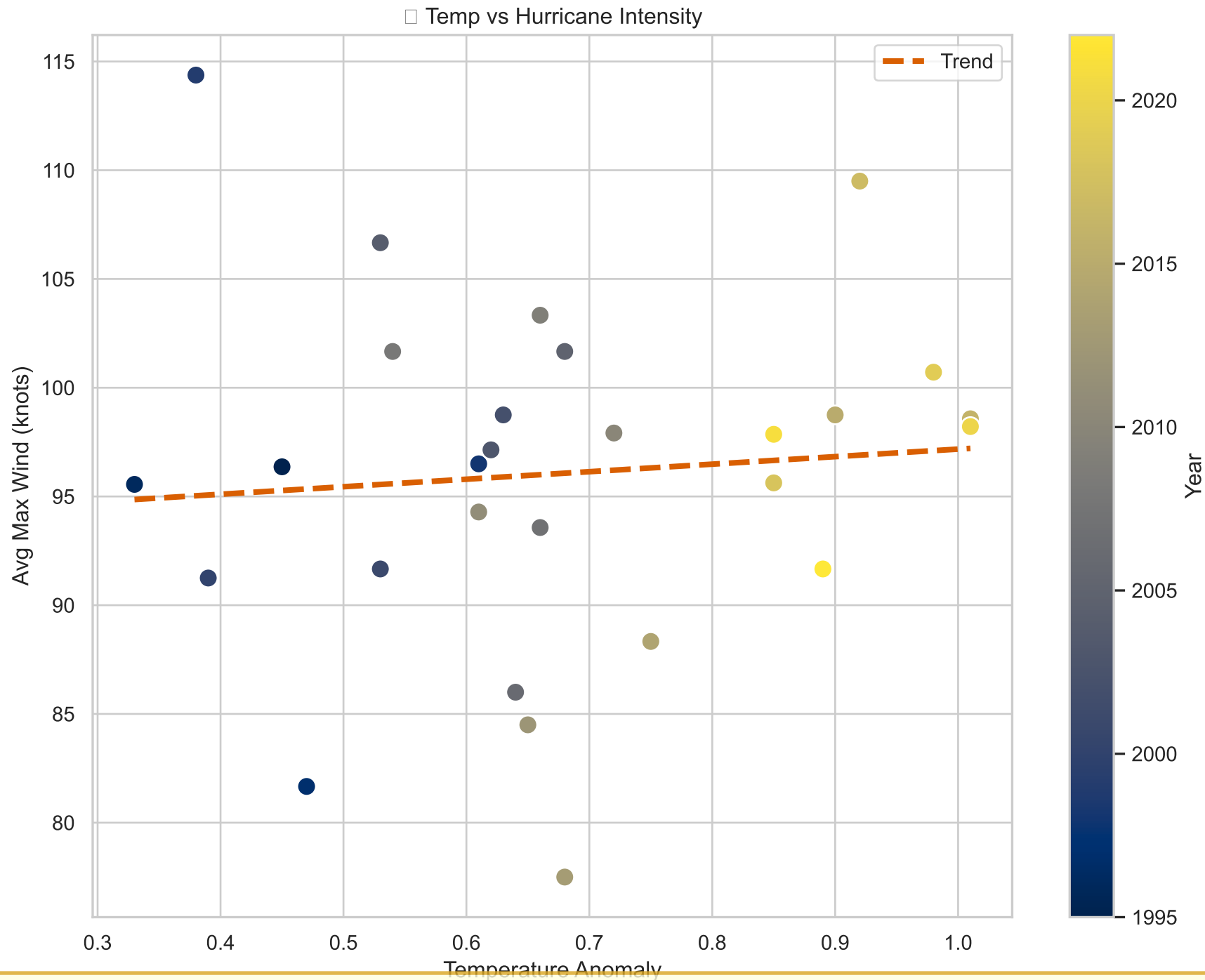
Speaker Notes: This graph shows how global temperature has changed from 1995 to 2022. The dashed trend line indicates a warming trend over this period, with anomalies getting higher over time.



Speaker Notes: This bar chart shows the number of total and major hurricanes each year. Major hurricanes are Category 3 and above, with wind speeds over 96 knots.



Speaker Notes: This scatter plot explores whether years with higher global temperatures had more hurricanes. The trend line helps show if there's any overall relationship.



Speaker Notes: Here we look at whether global temperature affects hurricane strength. Each dot represents a year, and we plot the average max wind speed of hurricanes against temperature anomaly.

□ Summary & Insights

- Temp ↔ Total Hurricanes: $r=0.06$
- Temp ↔ Major Hurricanes: $r=-0.03$
- Temp ↔ Avg Wind Speed: $r=0.08$

Conclusion:

There is measurable correlation between warming and hurricane behavior.
Further research is essential for stronger conclusions.