

□ Climate Change & Hurricanes □

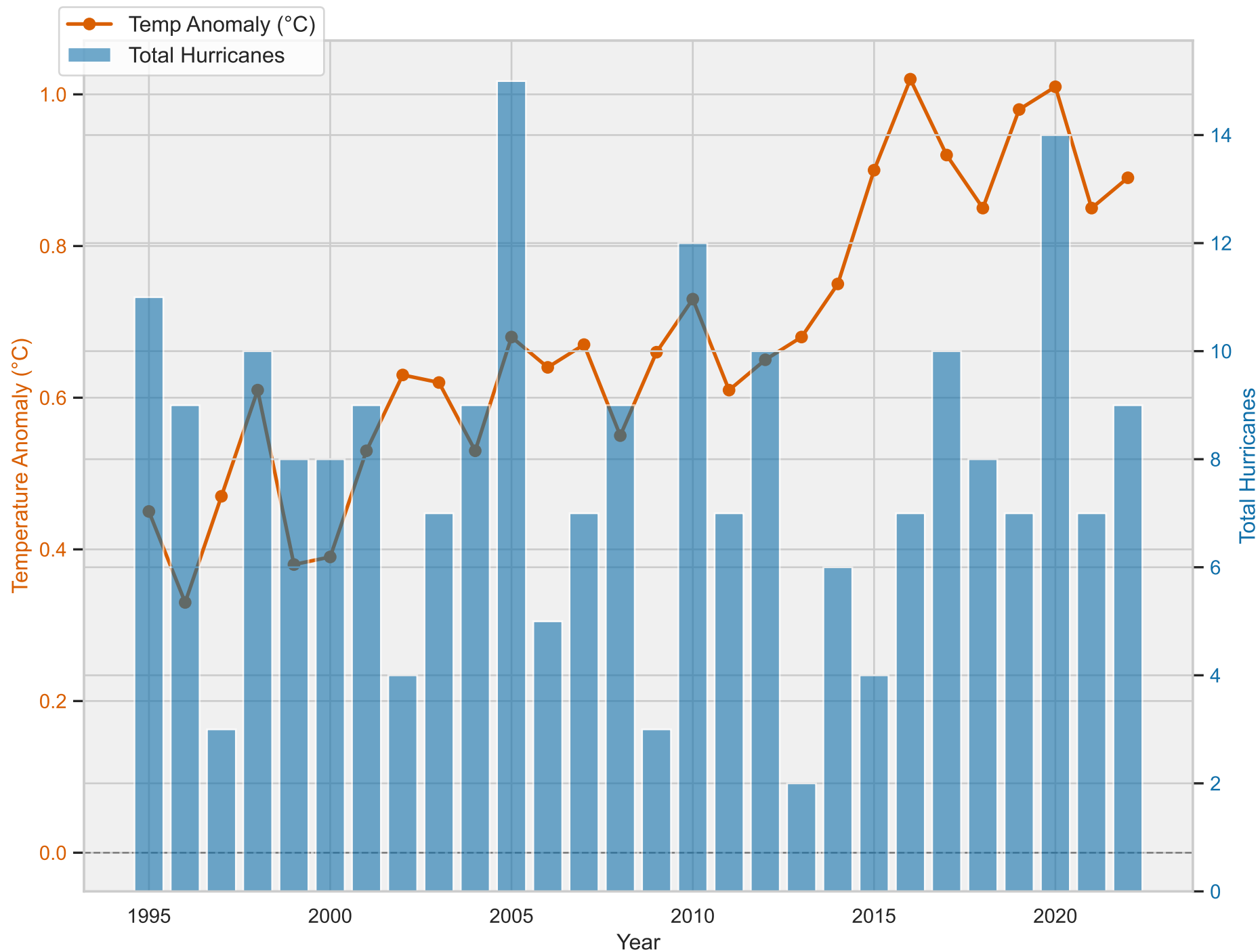
Are warmer oceans fueling stronger storms?

DATA 608 - Story 5 Presentation

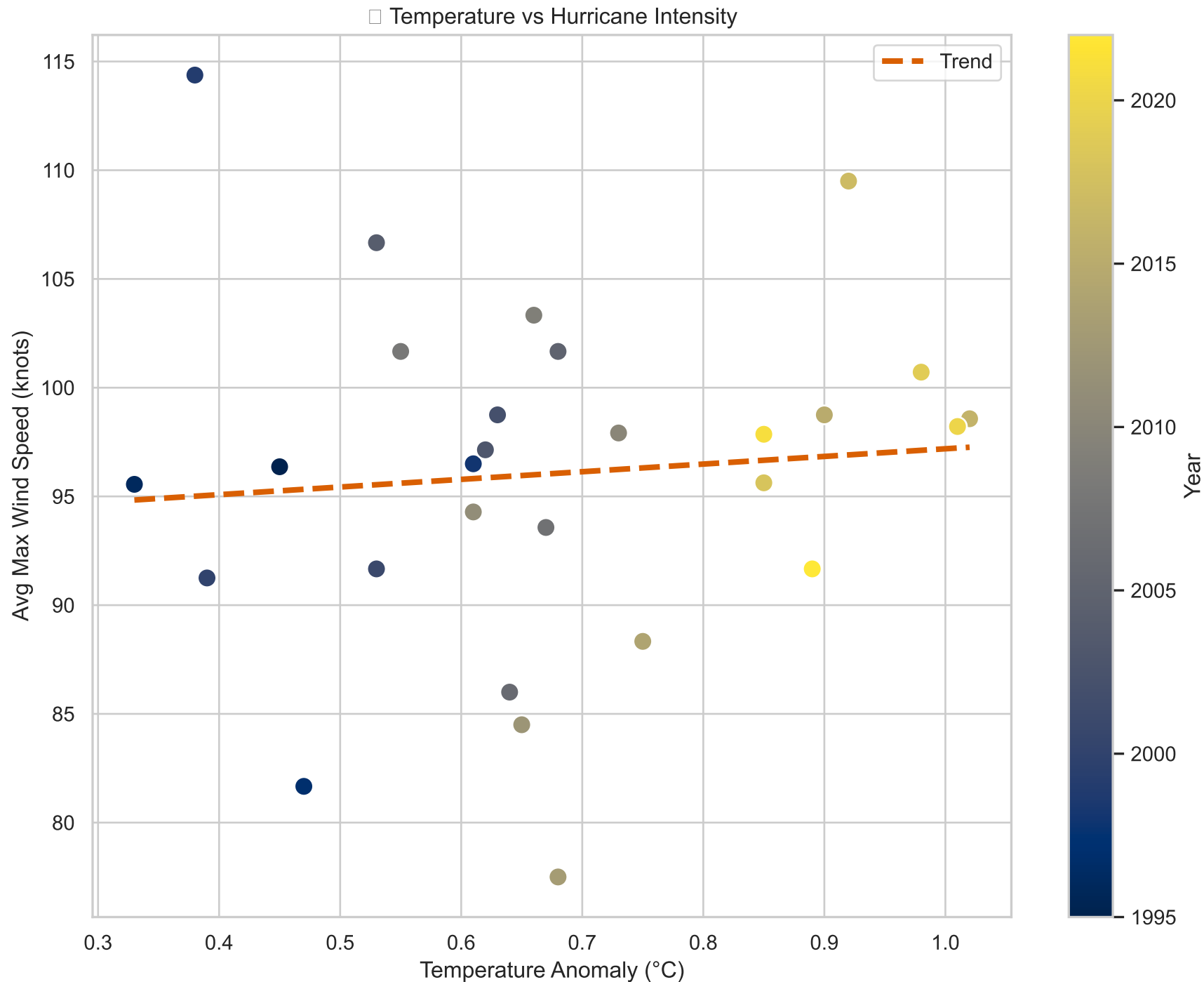
By: UMAIS SIDDIQUI

Speaker Notes: Today we'll explore the connection between global warming and hurricane activity. We'll ask: Are rising temperatures linked to more or stronger storms?

Temperature vs Hurricane Frequency (1995–2022)



Speaker Notes: This chart shows global temperature anomalies and hurricane counts together from 1995 to 2022. It helps us see if hotter years had more hurricanes.



Speaker Notes: This scatter plot looks at hurricane intensity vs temperature anomaly. Each point is a year, and we see if hotter years had stronger average winds.

□ Summary & Key Takeaways

- Temp ↔ Total Hurricanes: $r = 0.06$
- Temp ↔ Major Hurricanes: $r = -0.03$
- Temp ↔ Avg Wind Speed: $r = 0.09$

Conclusion:

There is evidence that warmer years may be linked to more and stronger hurricanes. This relationship is important for disaster planning and climate policy.