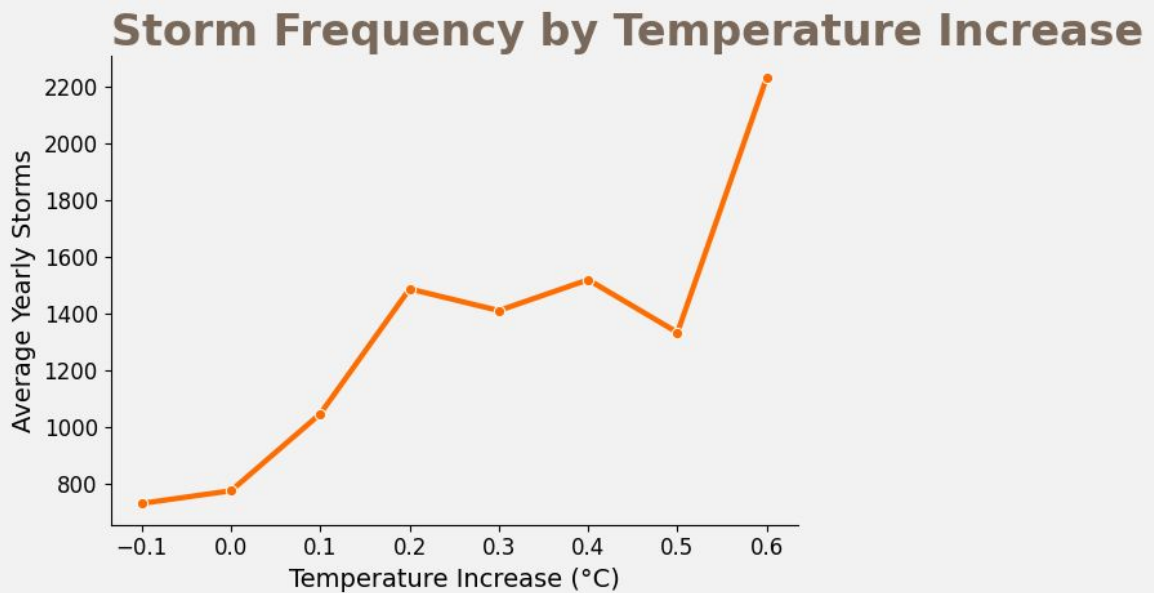


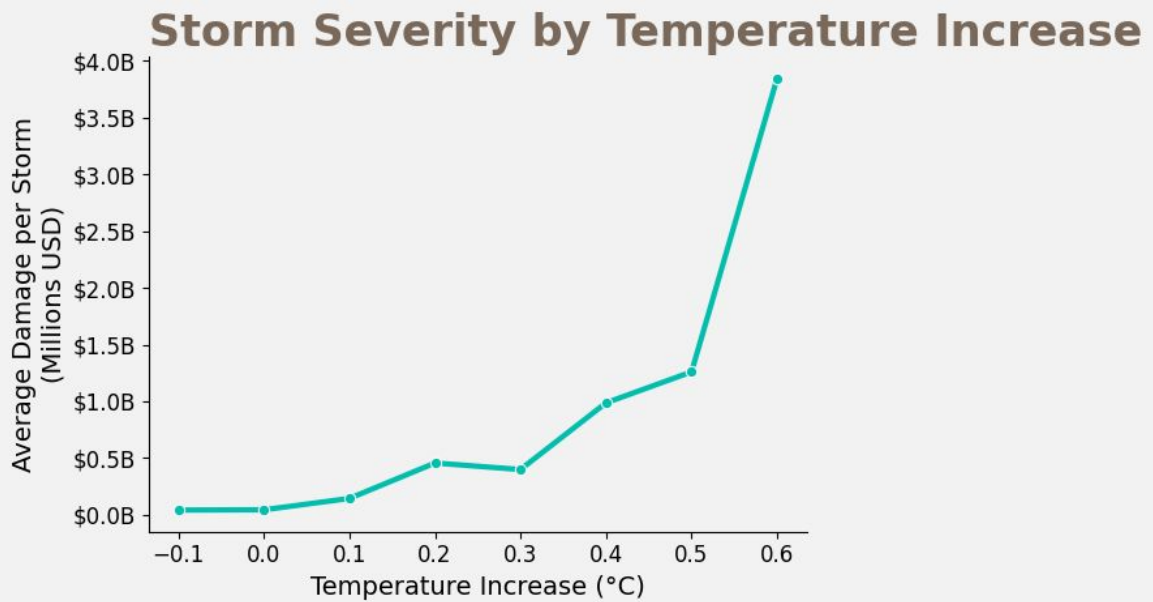
# Do Hotter Temperatures Cause More and Stronger Storms?



Do hotter temperatures cause more and stronger storms? These images show the destructive power of such events, and we'll explore the possible connection between climate change and their increasing intensity. Let's dive into the science and see what the evidence reveals.



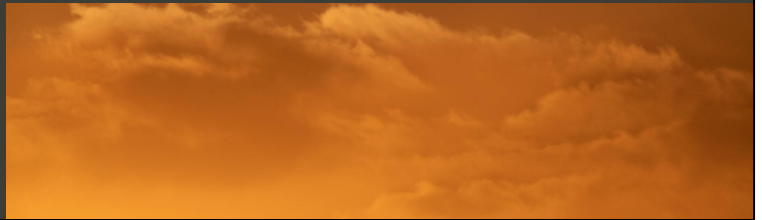
This graph shows the relationship between temperature rise and storm frequency. Notice how the number of storms increases significantly as temperatures get warmer. This suggests a strong link between global warming and the potential for more frequent storms.



This graph shows how the average cost of damage per storm increases with temperature rise. Notice the dramatic spike in cost after just a 0.5 degree Celsius increase. This suggests that even small temperature changes lead to significantly more destructive individual storms.

# Conclusion

- **Increased Storm Frequency:** Warmer temperatures correlate with a higher number of storms per year.
- **Increased Storm Severity:** The damage caused by individual storms rises significantly with temperature increase, leading to higher costs.
- **Clear Correlation:** The graphs demonstrate a strong relationship between temperature rise and storm intensity, not just random fluctuations.
- **Urgent Action Needed:** The data highlights the need for immediate action to address climate change and reduce its impact on extreme weather.



The data shows a clear link between rising temperatures and both more frequent and more damaging storms. This means we can expect increased economic costs and greater devastation from individual storms as the planet warms. Addressing climate change is crucial to mitigate these intensifying weather events.

# Sources

- **Slide 1:**

- **Image:** Lomborg, B. (2017, September 22). *Climate change is real and dangerous. But that doesn't mean we should waste money.* USA Today. Retrieved from: <https://eu.usatoday.com/story/opinion/2017/09/22/climate-change-dangerous-doesnt-mean-we-have-spend-money-stupidly-bjorn-lomborg-column/684610001/>. Accessed Accessed 2025-04-13.
- **Image:** Janssen, K. (2010, April). *Incredible storm.* Retrieved from <http://janssenkwch.blogspot.com/2010/04/incredible-storm.html>. Accessed Accessed 2025-04-13.

- **Data:**

- OAA Storm Events Database. National Centers for Environmental Information (NCEI), National Oceanic and Atmospheric Administration (NOAA). Retrieved from: <https://www.ncei.noaa.gov/pub/data/swdi/stormevents/csvfiles>.<sup>1</sup> Accessed 2025-04-13.
- GISTEMP Climate Data Graphs. NASA Goddard Institute for Space Studies (GISS). Retrieved from: [https://data.giss.nasa.gov/gistemp/graphs/graph\\_data/Global\\_Mean\\_Estimates\\_based\\_on\\_Land\\_and\\_Ocean\\_Data](https://data.giss.nasa.gov/gistemp/graphs/graph_data/Global_Mean_Estimates_based_on_Land_and_Ocean_Data). Accessed Accessed 2025-04-13.