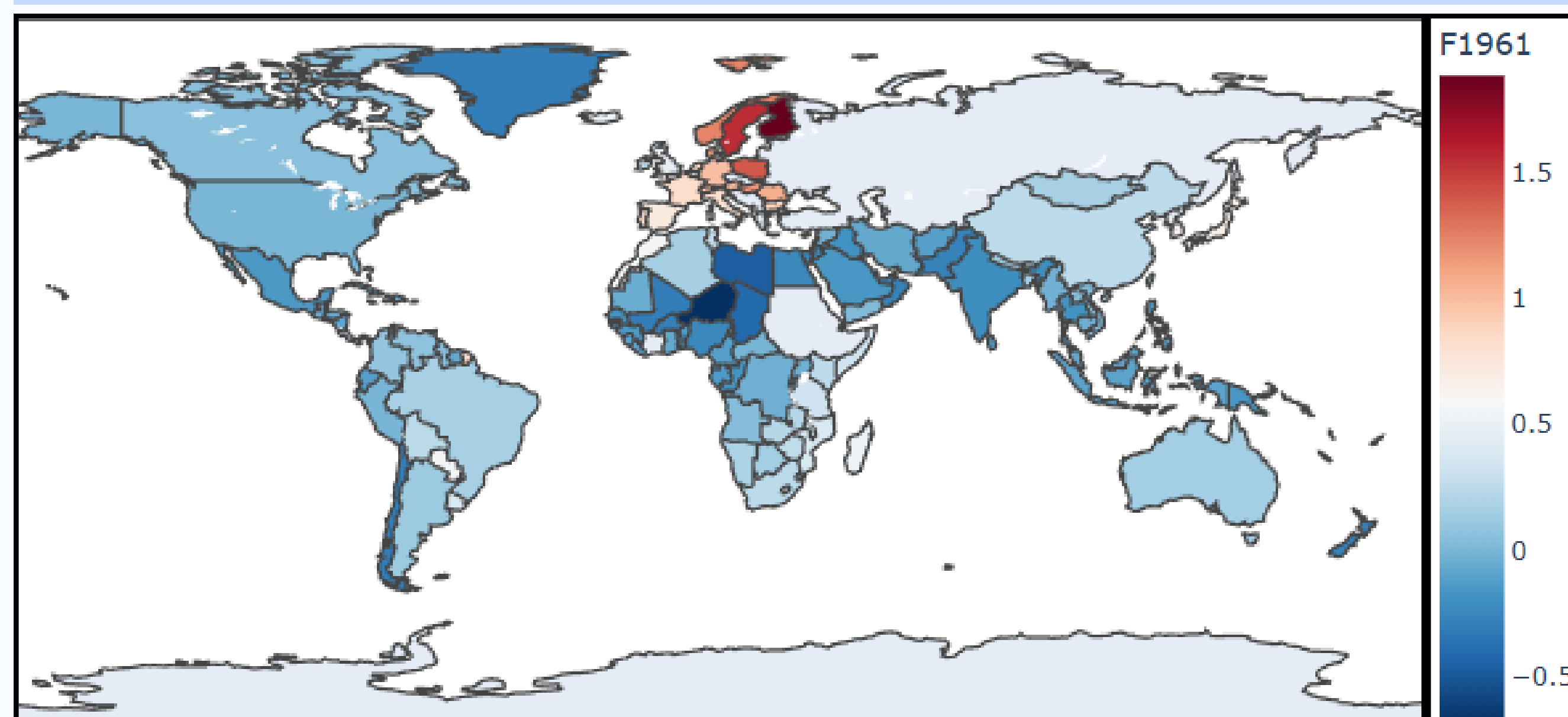


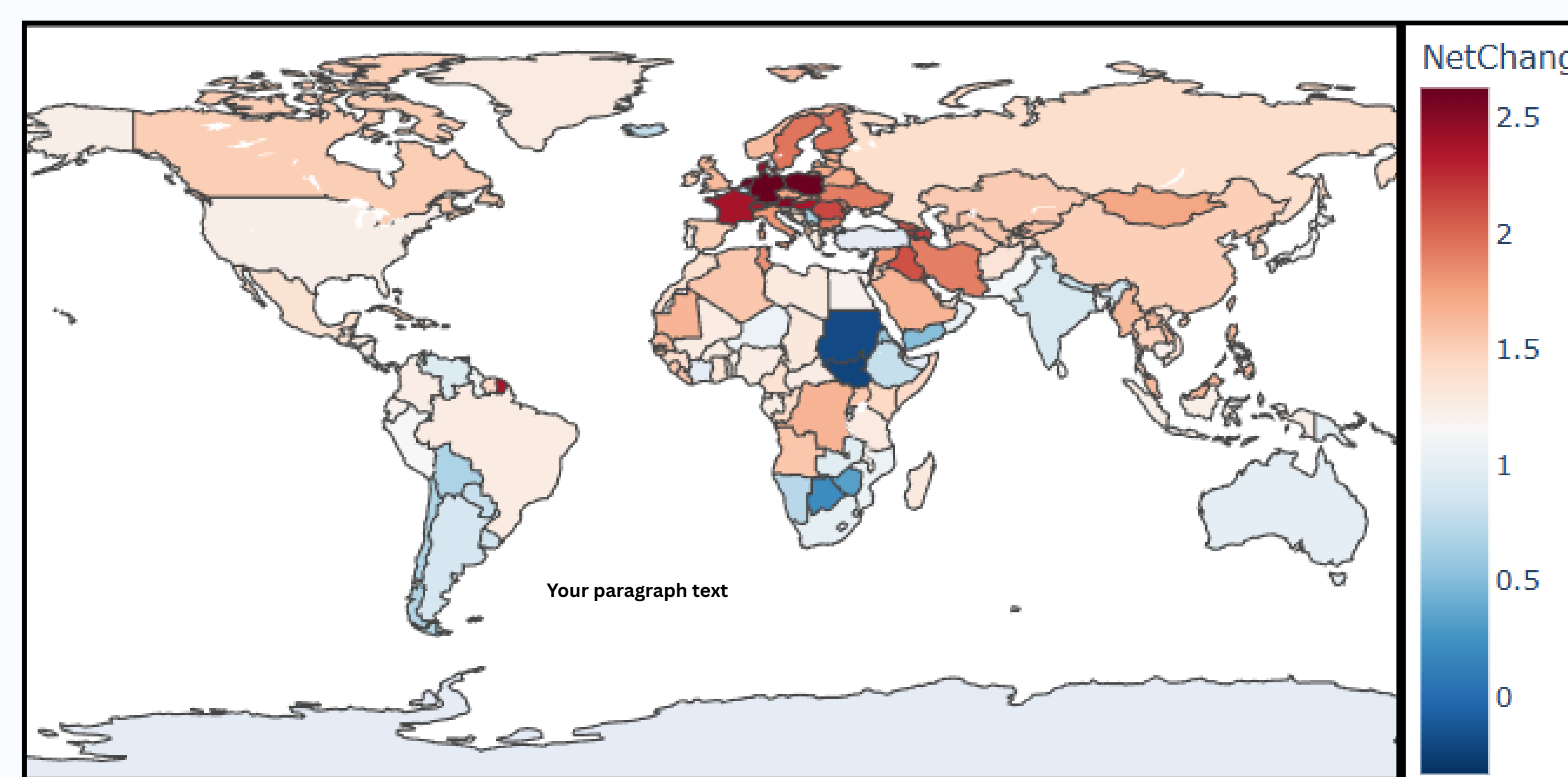
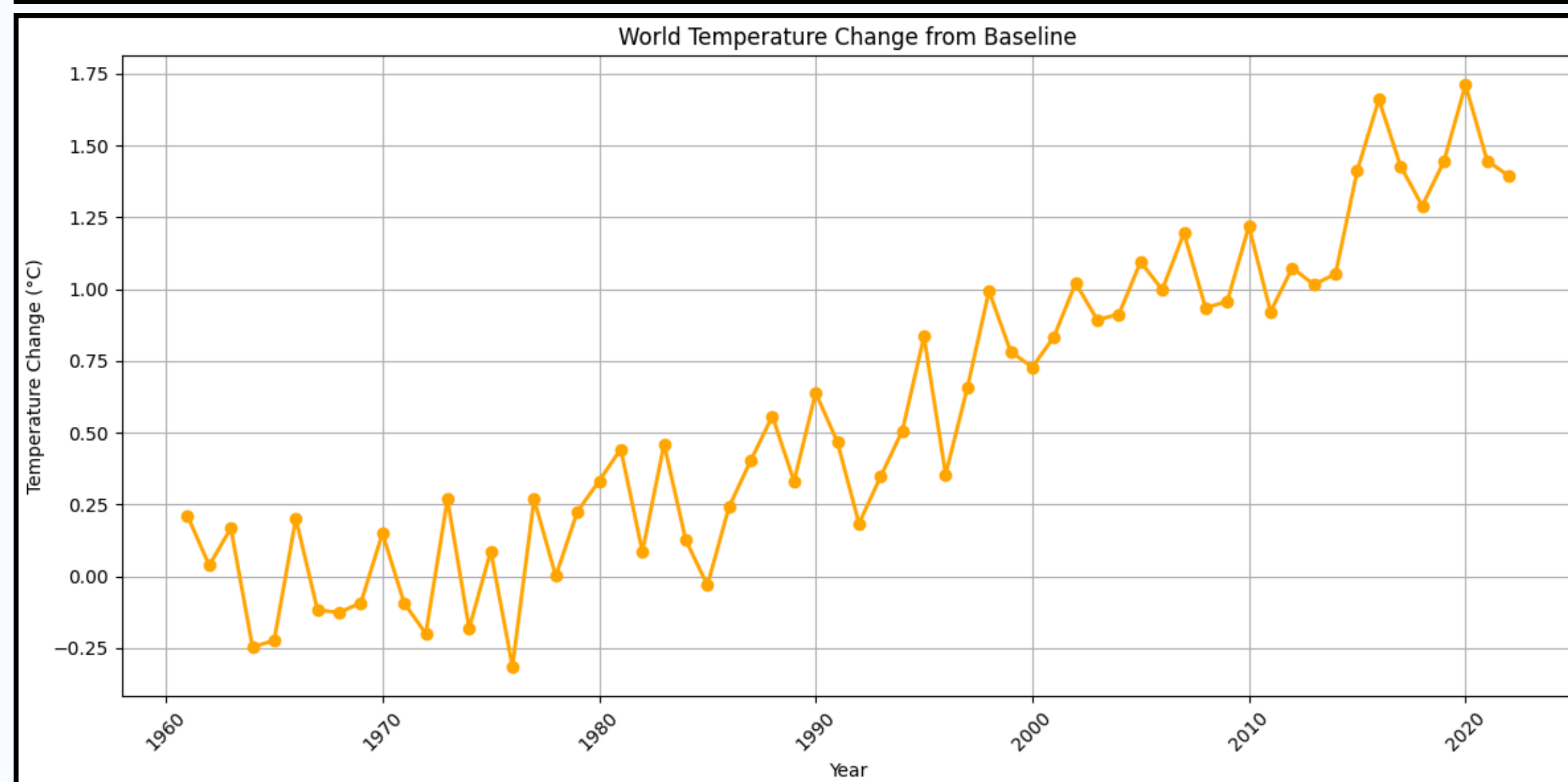
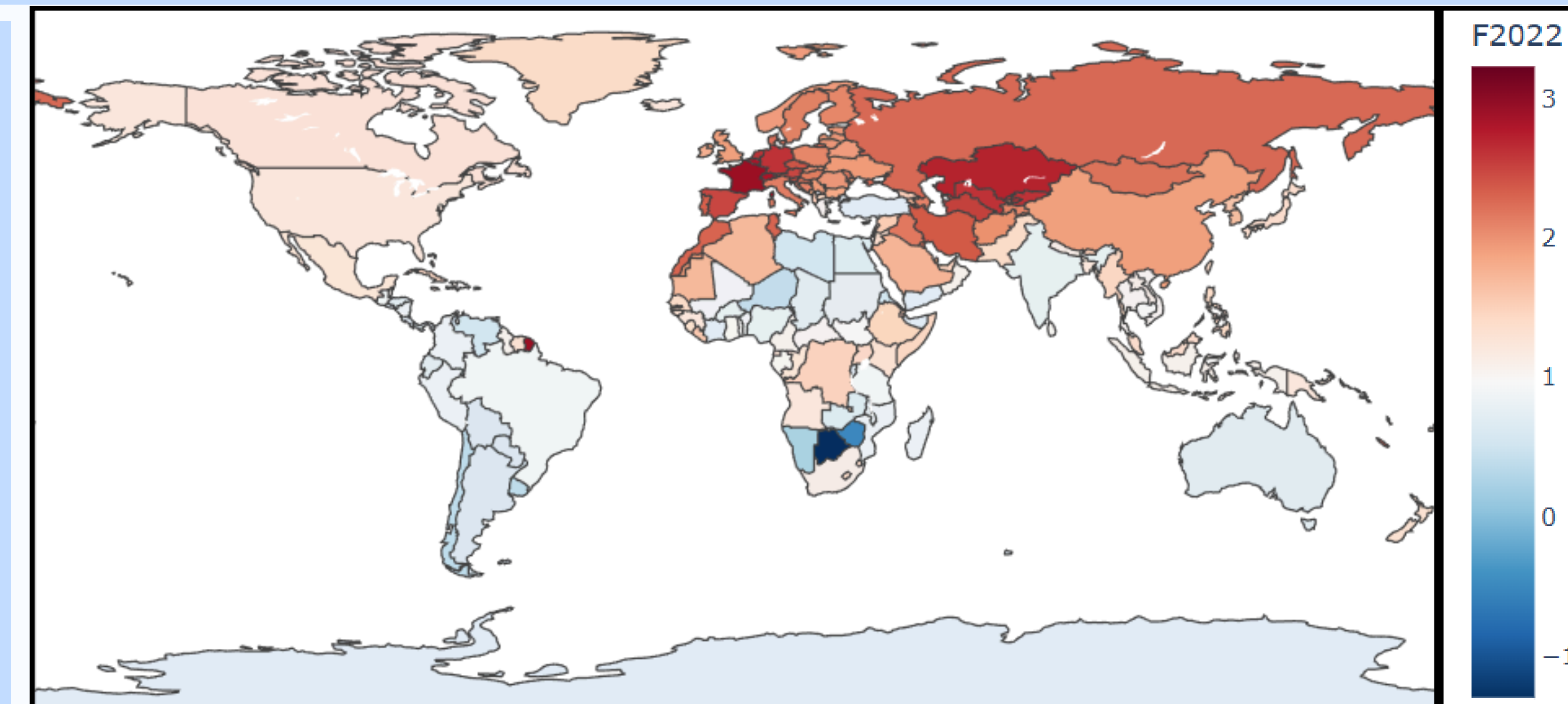
# The Changing Climate: 1961-2022

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Climate change affects every region of the planet, and despite strong scientific evidence, many countries still lack the planning or awareness needed to respond effectively. This project visualizes climate trends from 1961–2022 to emphasize the urgency of paying attention to these changes.



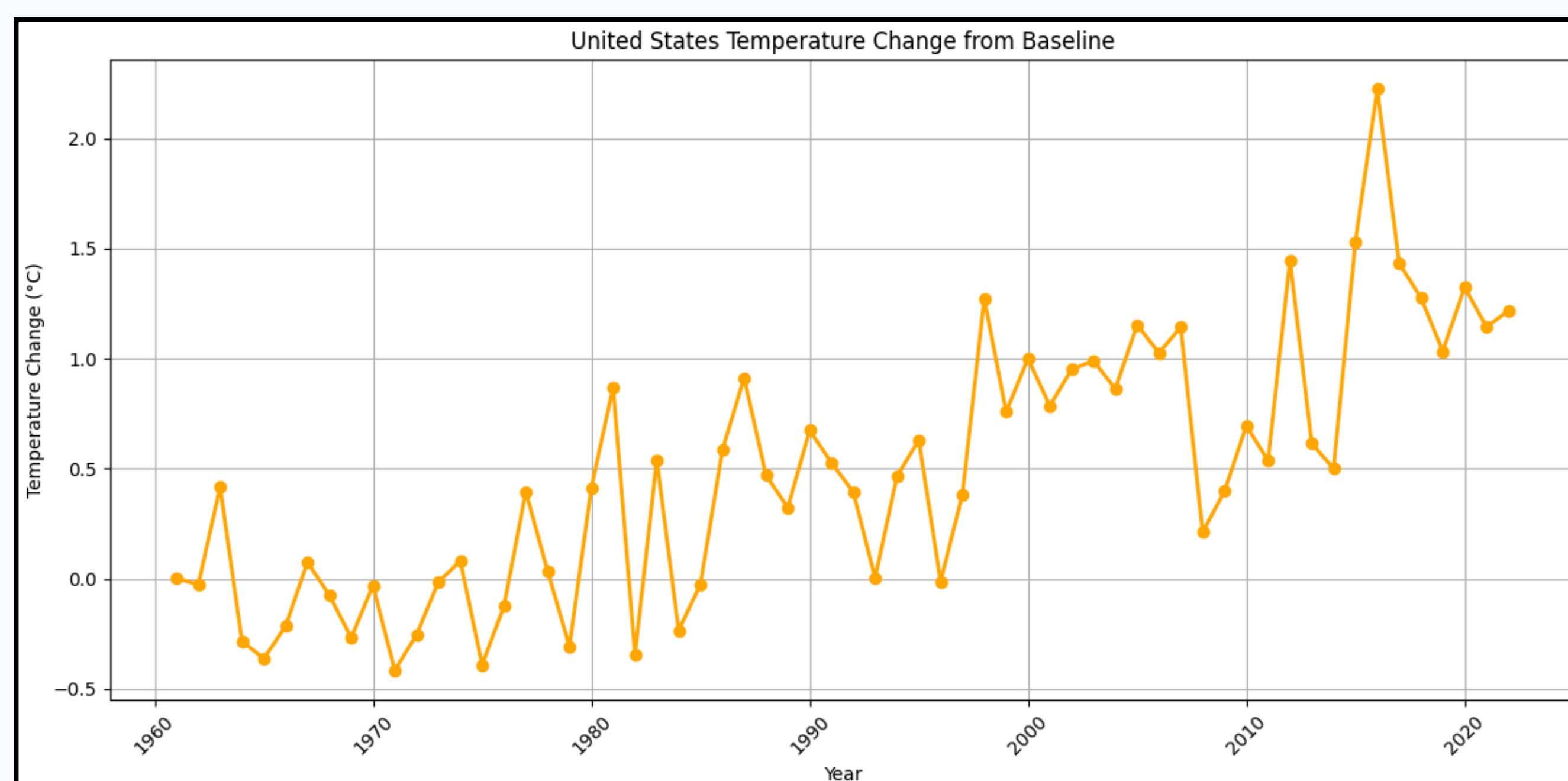
These maps compare temperature changes between 1961 and 2022. In 1961, cooler conditions dominated much of the world, while only a few northern regions showed warming. By 2022, almost every region experienced significant warming, with the strongest increases concentrated across Eurasia and the Middle East.



This map displays the net temperature change for each country between 1961 and 2022. Warmer colors represent regions with the largest increases, including Europe, the Middle East, and Central Asia. Cooler colors highlight the few regions where temperatures decreased or remained stable. The overwhelming presence of warming tones shows that rising temperatures are a widespread, global trend rather than a localized issue.

## Limitations:

- The dataset contains many missing or null values, which can distort trends for countries with limited historical data.
- The dataset comes from the Food and Agriculture Organization, though data quality varies by country. We acknowledge that the dataset ends in 2022 and cite FAO appropriately, noting that more recent climate changes are not reflected in our analysis.
- To ensure inclusivity, we use color-blind safe palettes, add captions summarizing key insights, and maintain readable font sizes and contrast levels so visuals remain accessible to a wide audience.



Both the world and the United States show a clear warming trend, with global temperatures rising steadily and U.S. temperatures showing more year-to-year variability but the same long-term upward pattern.

Data: Maimona, Z. (2023), Kaggle – Climate Changing Indicator Worldwide (1961–2022): <https://www.kaggle.com/datasets/zubairamuti/climate-forcaste-of-all-countries1961-to-2022/data>

Scan to explore our full dataset, code, and interactive visuals.

