

## Climate Research Report

Generated: 2025-08-13 11:54

### Dataset:

- Years: 1975–2024
- Variables: Atmospheric CO2 (ppm), Global temperature anomaly (°C)

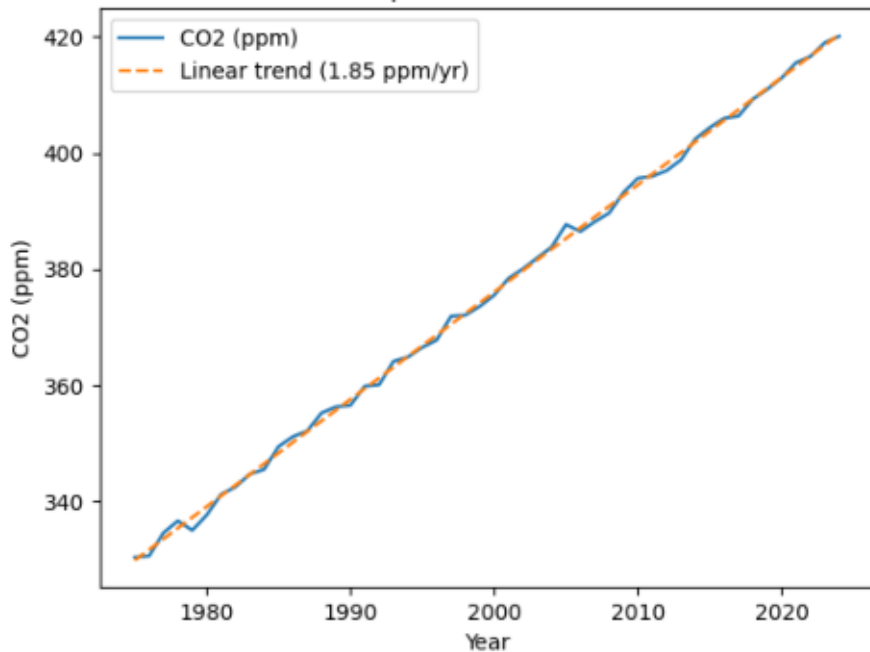
### Key Results:

- Linear trend CO2: 1.85 ppm/yr
- Linear trend temperature: 0.022 °C/yr
- Pearson correlation (CO2 vs Temp): 0.963

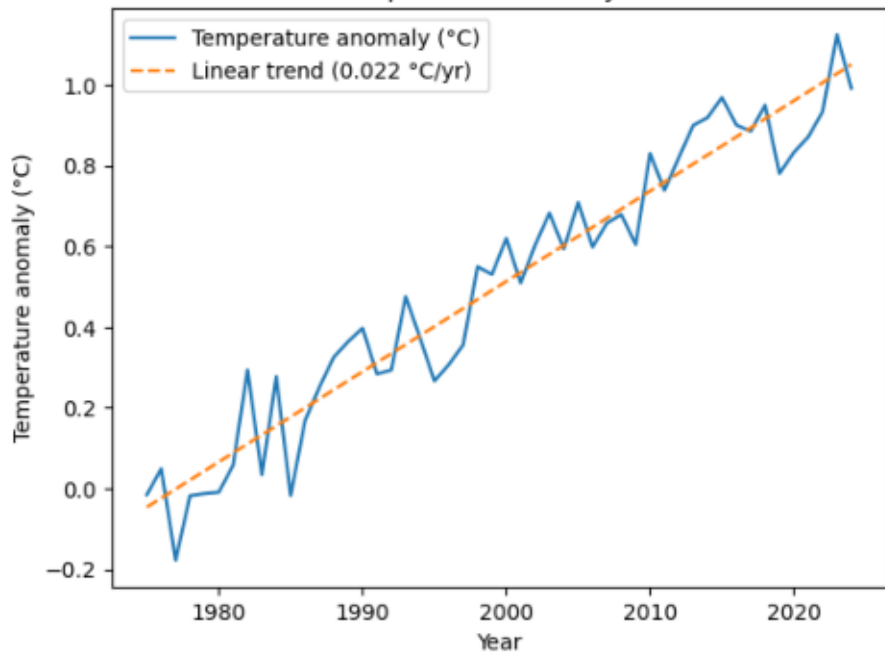
### Notes:

- Data source: synthetic by default; set USE\_REAL\_DATA=1 to attempt real data.

Atmospheric CO2 over time



Global temperature anomaly over time



Temperature anomaly vs CO2

