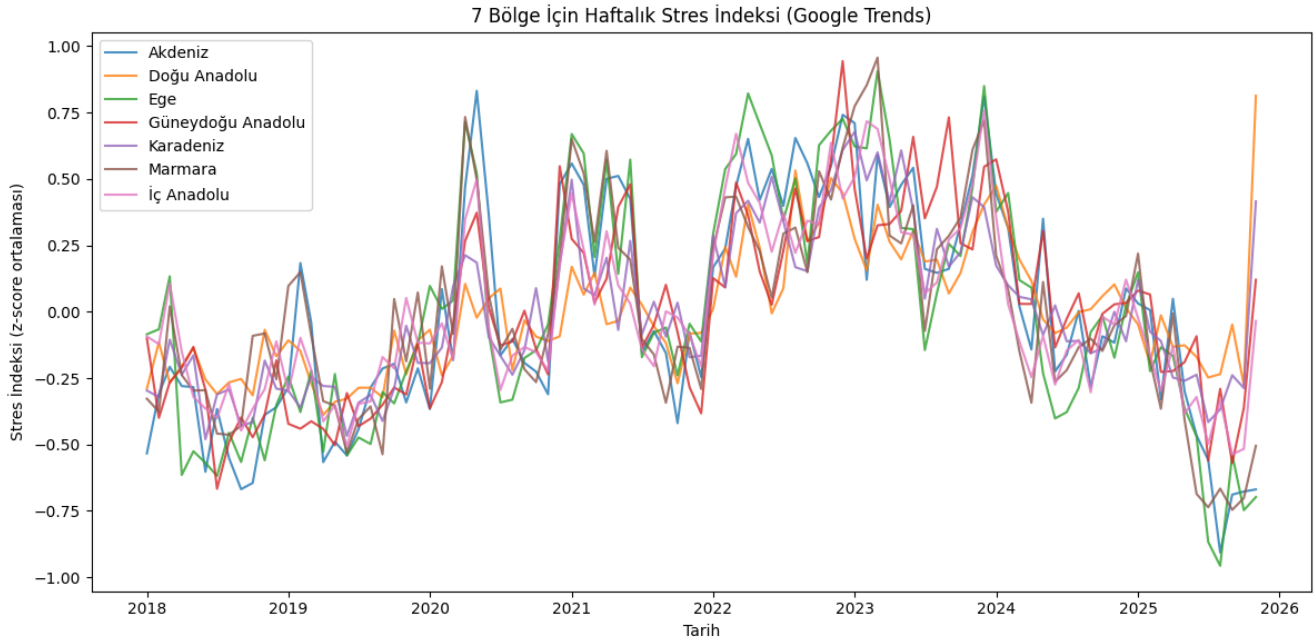


Regional Stress Response to Macroeconomic Shocks and Earthquakes in Türkiye

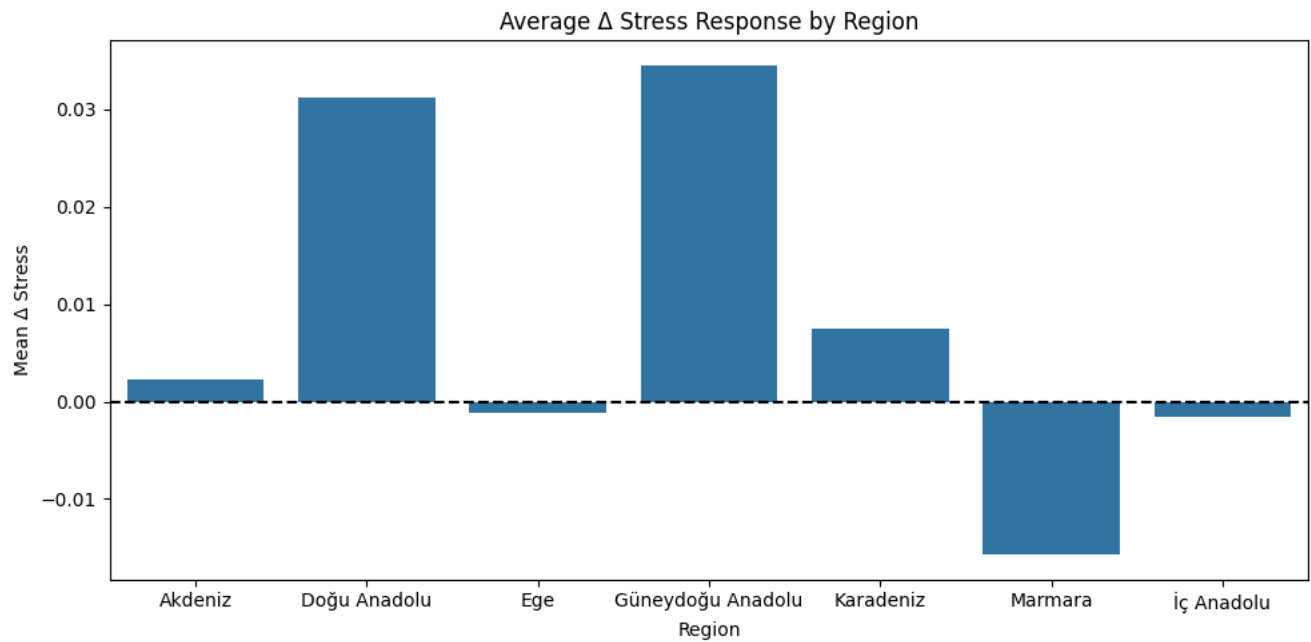
Introduction

This report analyzes how Türkiye's seven geographical regions respond to stressful nationwide events, specifically major earthquakes and foreign exchange (FX) shocks. Public stress is measured using Google Trends data for stress-related keywords over the period 2018–2025. The analysis includes regional stress index construction, event-window analysis, and statistical testing.



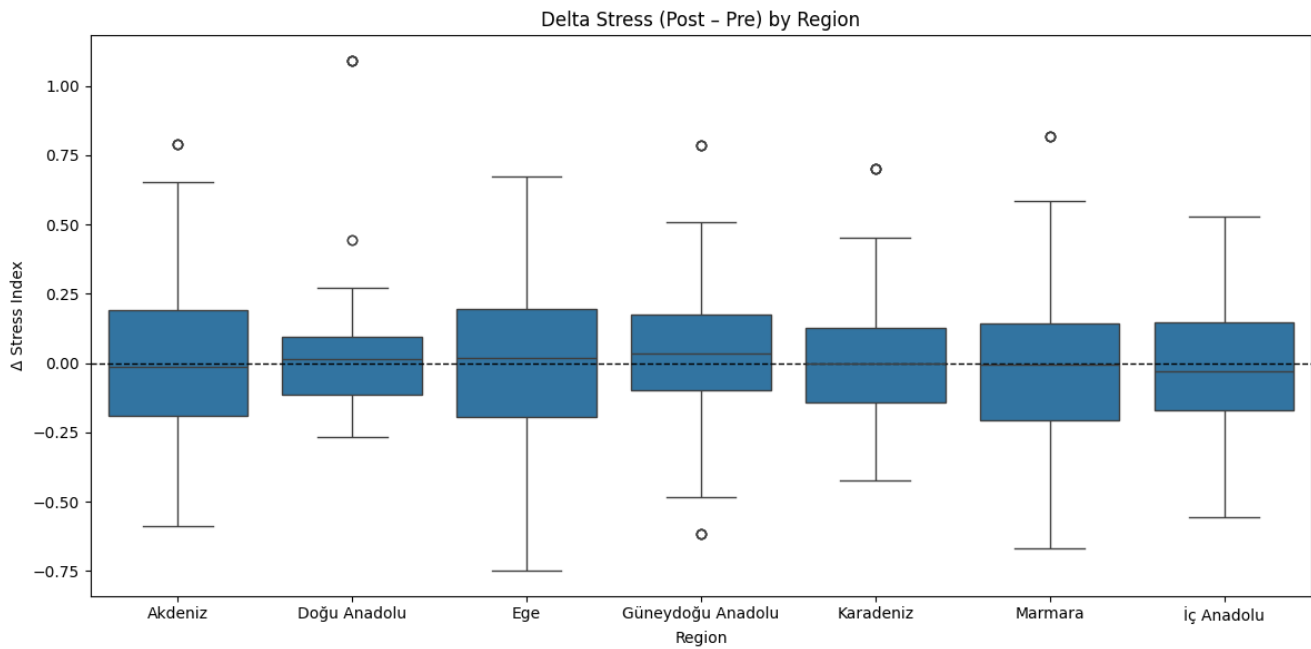
Weekly Stress Trends

The figure below displays weekly region-level stress indices based on Google Trends data across the seven regions.



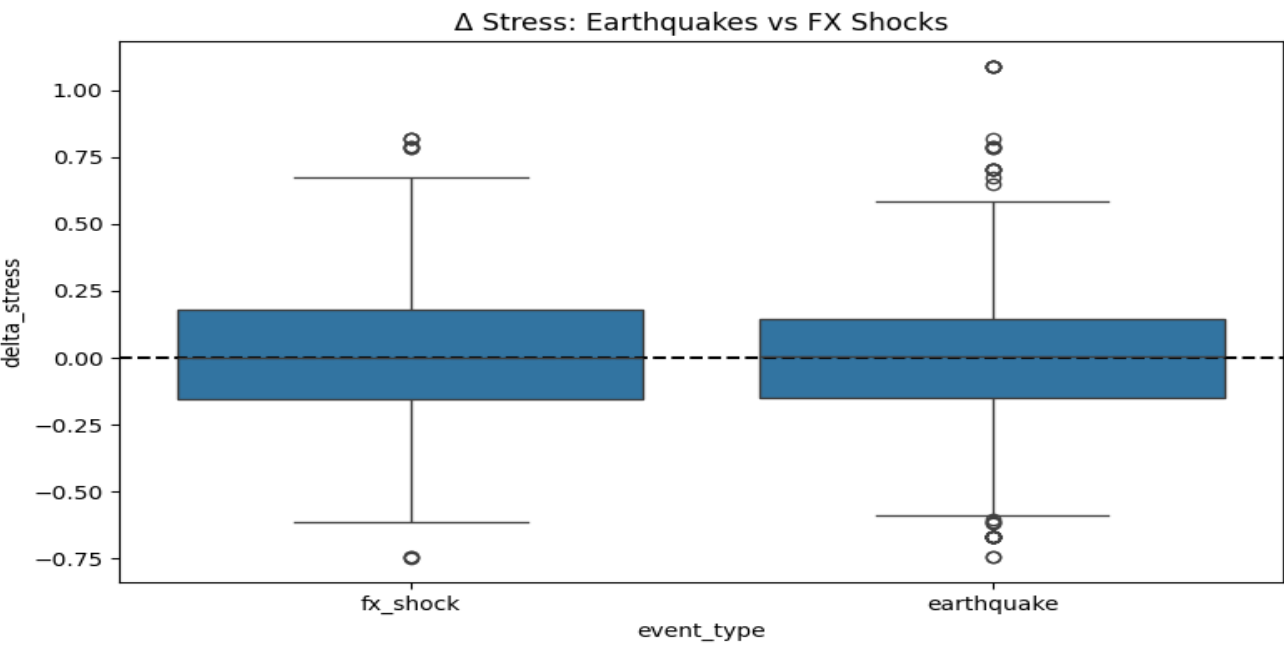
Average Stress Response by Region

This bar chart summarizes the average change in stress (post-event minus pre-event) for each region.



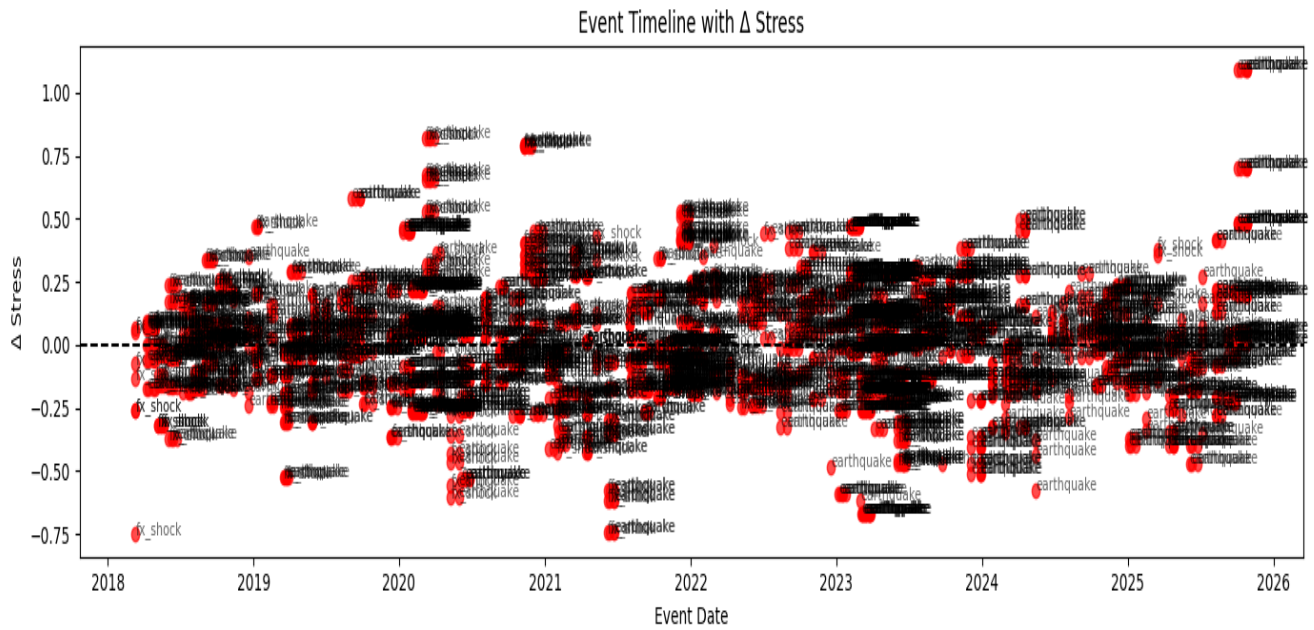
Distribution of Stress Responses

The boxplot illustrates the distribution of delta-stress values across regions, showing substantial overlap.



Earthquake vs FX Shock Comparison

This figure compares the stress response patterns for earthquakes versus FX shocks.



Conclusion

The findings indicate that although earthquakes and FX shocks influence public stress levels, the seven regions of Türkiye do not exhibit statistically significant differences in post-event stress changes. This suggests a synchronized national stress response rather than region-specific behavioral patterns.