

Is Florida Getting Warmer? - An Analysis

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Abstract

This document presents the results of a permutation analysis conducted to explore the correlation between years and temperature in Florida, aiming to address the question: "Is Florida getting warmer?"

Results

The observed Pearson correlation coefficient between the years and temperature in Florida is **0.372**. To test the significance of this correlation, a permutation analysis with 10,000 iterations was conducted, reshuffling the temperature data to generate a distribution of random correlation coefficients.

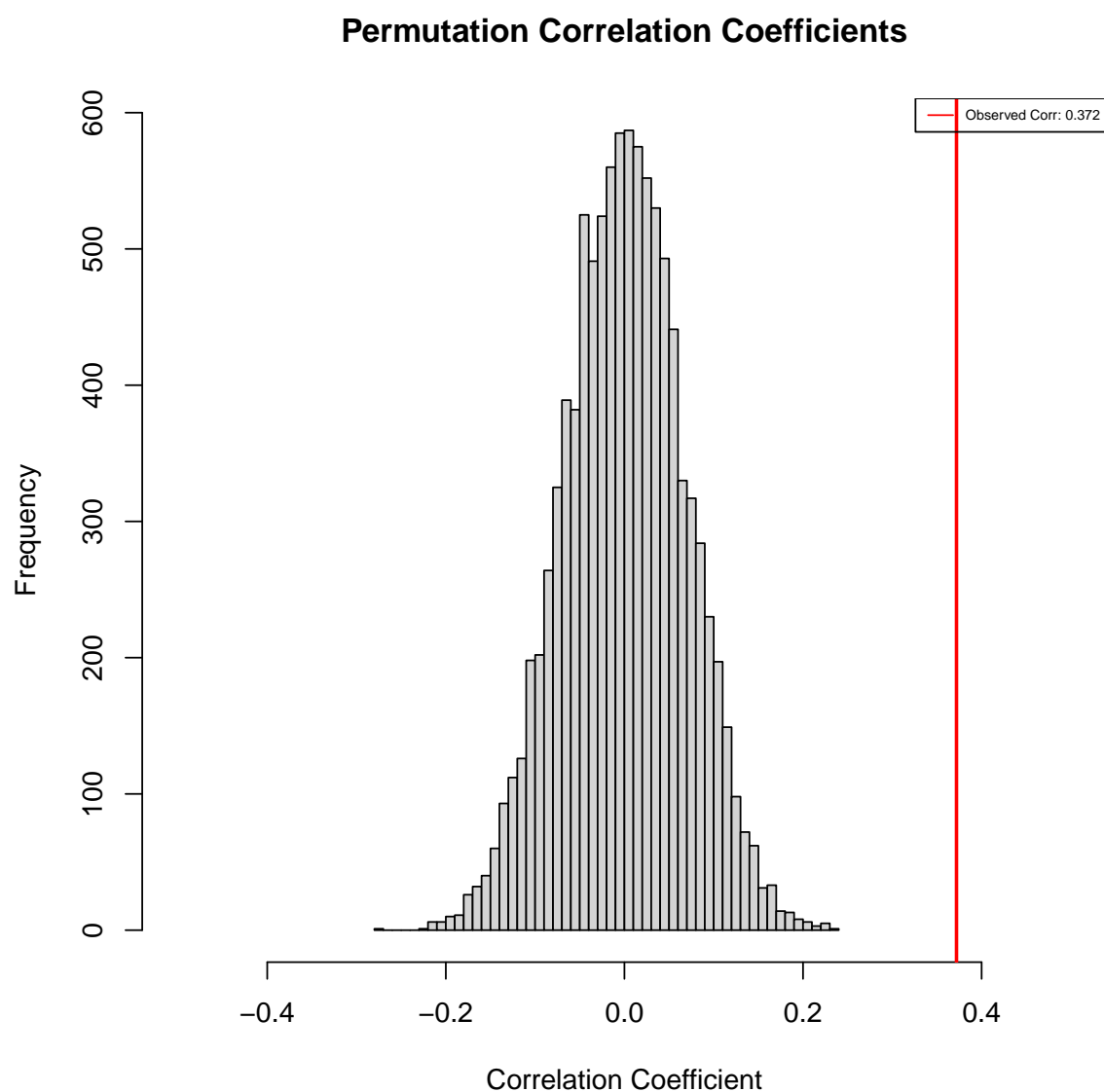


Figure 1: Histogram of permutation correlation coefficients with the observed value indicated by the red line.

The approximate p-value obtained from this analysis is **0**, suggesting that the correlation observed is SIGNIFICANT.

Interpretation

The analysis suggests that there is a POSITIVE correlation between the years and temperature in Florida, implying that Florida is IS getting warmer over time.