

Is Florida getting warmer

October 28, 2022

1 Introduction

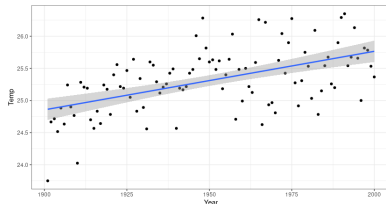
This report checks whether Florida is getting warmer over the years. It checks whether the correlation between the variables is a result of chance or if it is significant by itself

2 Methods

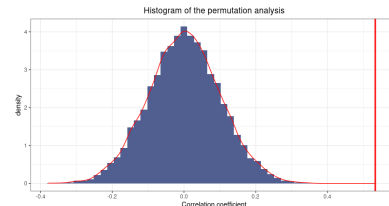
The correlation between the temperature and year is calculated using the `cor` function in R. The significance of this observed correlation is verified using the a permutation analysis.

3 Results

As seen from 1a there is a increase in temperature over time. To verify whether this increase is significant a permutation analysis of the data was done. 1b shows that the observed correlation is greater than the correlation acquired by random reshuffling. This proves that Florida is getting warmer.



(a) A subfigure



(b) A subfigure