

# PSTAT174-ProjectPaper

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Within a century, the world has seen great changes in its climate.[] Countries around the world have now been experiencing harsher weather patterns with extreme weather events becoming the norm. Among these changes is a global change in temperature. In order to find the significance of the climate change, data about the temperature over tens of years in different places around the world would be necessary. Thankfully, there exists such data and this will be an analysis focusing on climate change within Europe.

FIX THIS^^^^ Its too elementary

Analyzing Europe would be beneficial because of the different climates throughout the continent while still being relatively closer together. This makes it so that there could be an analysis around location and temperature change. Because the location and the environment could have an effect on the climate, it is necessary to look at these variables and see if they make any significant difference to the temperature.

The data originates from the website Data Commons and they had acquired their data from noaa.gov also known as, **National Ocean and Atmospheric Administration**.

Being able to tell whether there is a significant change in the climate would make understanding just how problematic global warming really is. It would allow people to be able to get a digestible number that can anyone can understand. It can make people really understand how the world is changing without having to fully explain everything that is really going on.

This is a very common thing to study because of how important understanding climate change its recent effects. This means that there are definitely plenty of researchers also studying this data.

Just how much has the temperature increased? Are there differences in the amount of temperature increase and the location? If location matters, is it an effect of the environment or is it an effect of solely the location?

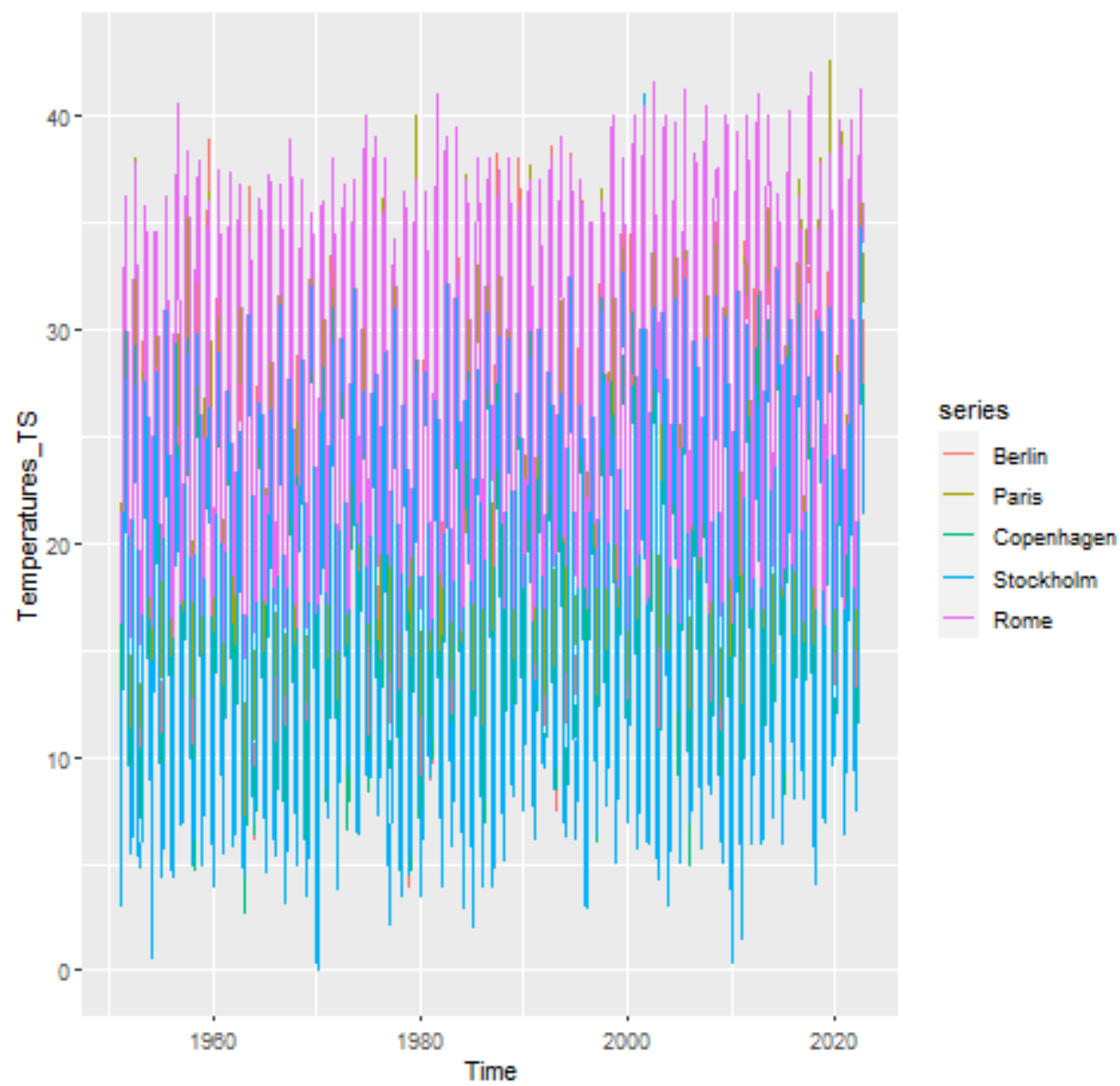


Figure 1: Figure 1

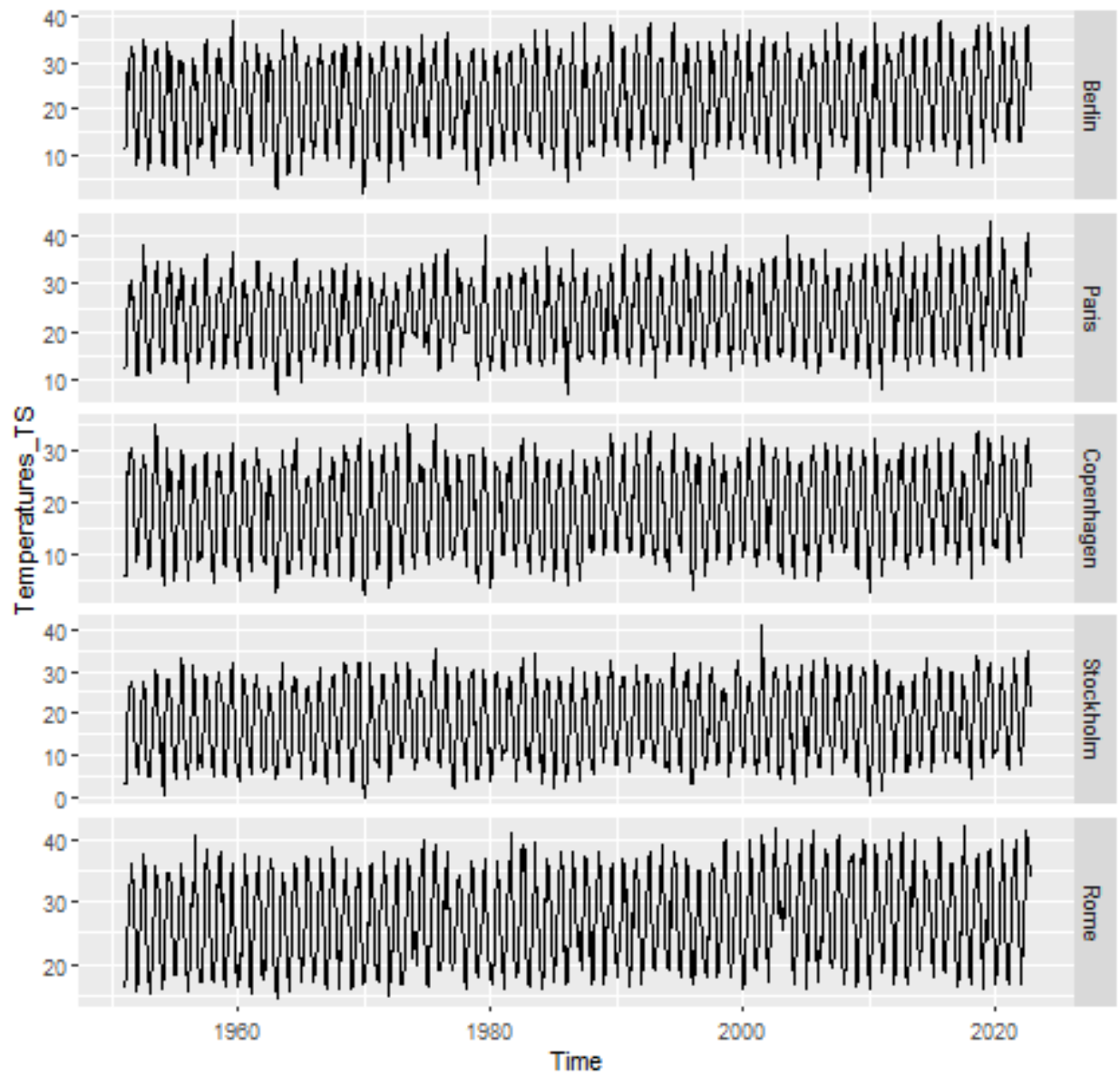


Figure 2: Figure 2

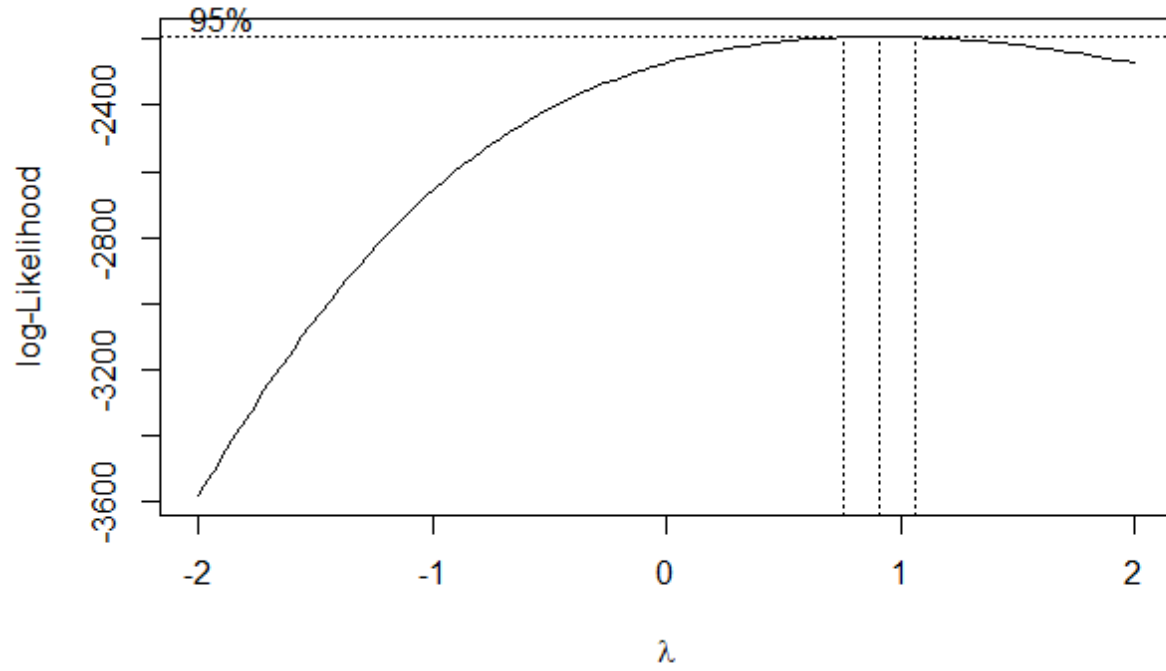


Figure 3: Figure 3

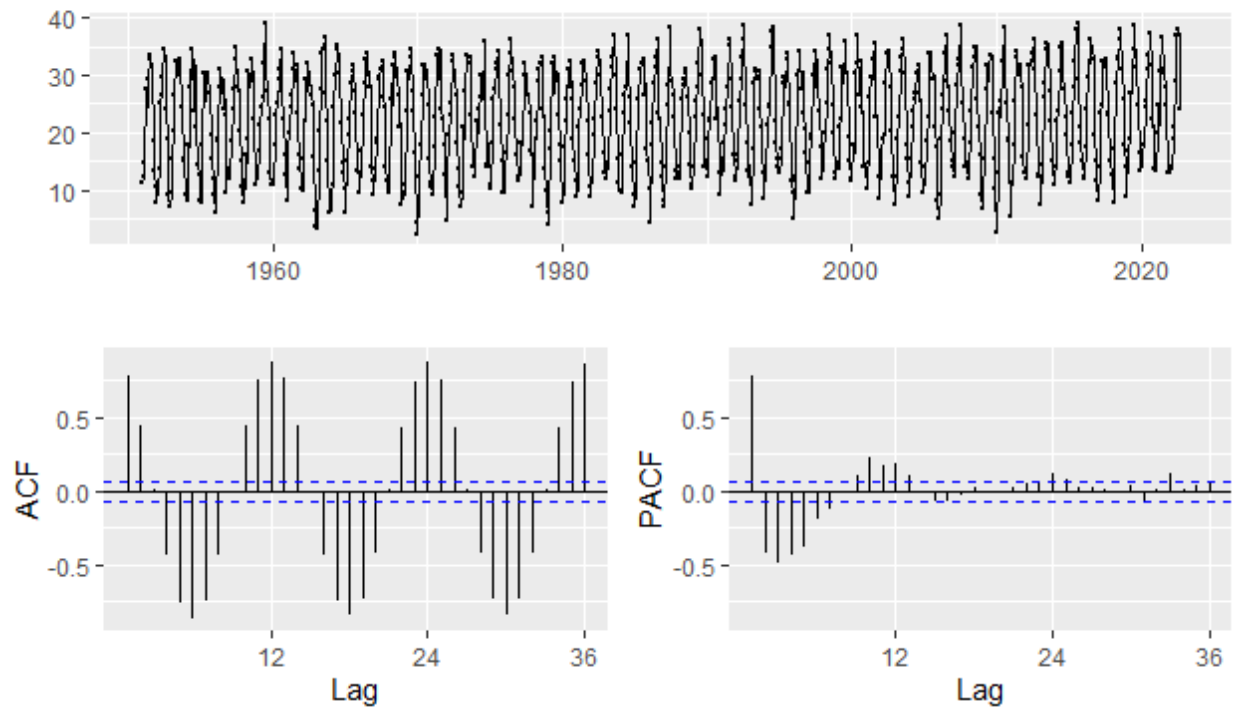


Figure 4: Figure 4

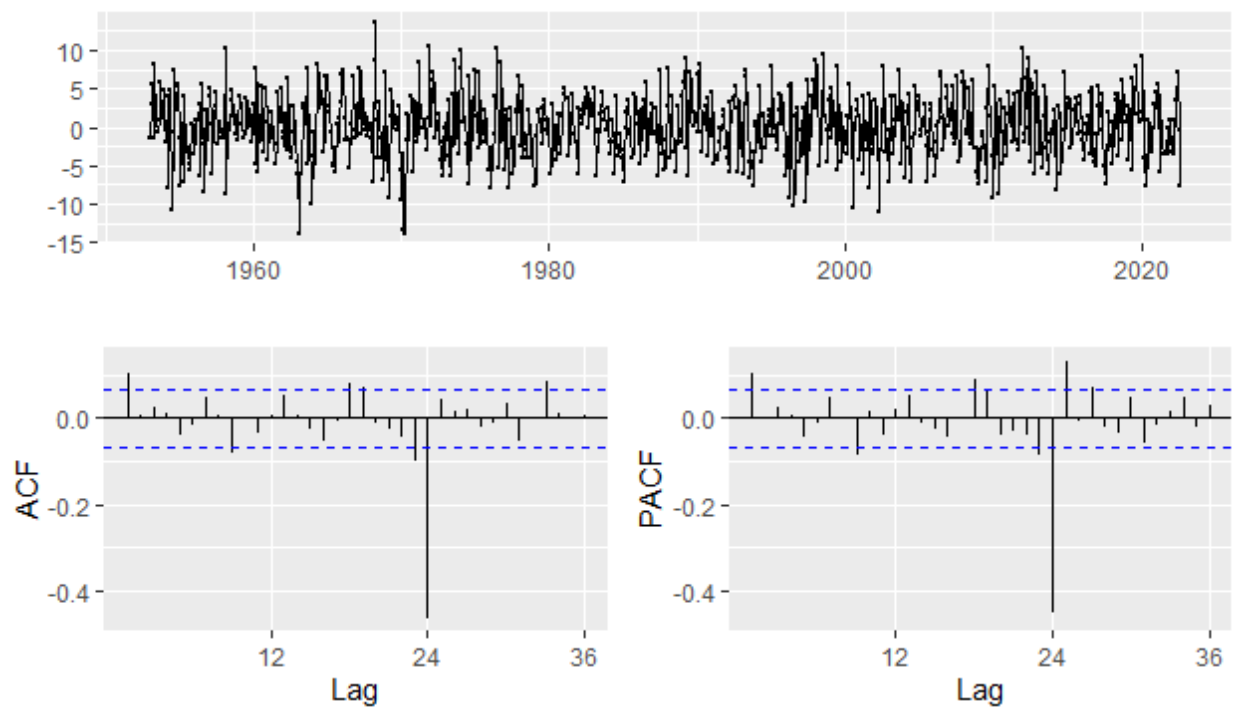


Figure 5: Figure 5

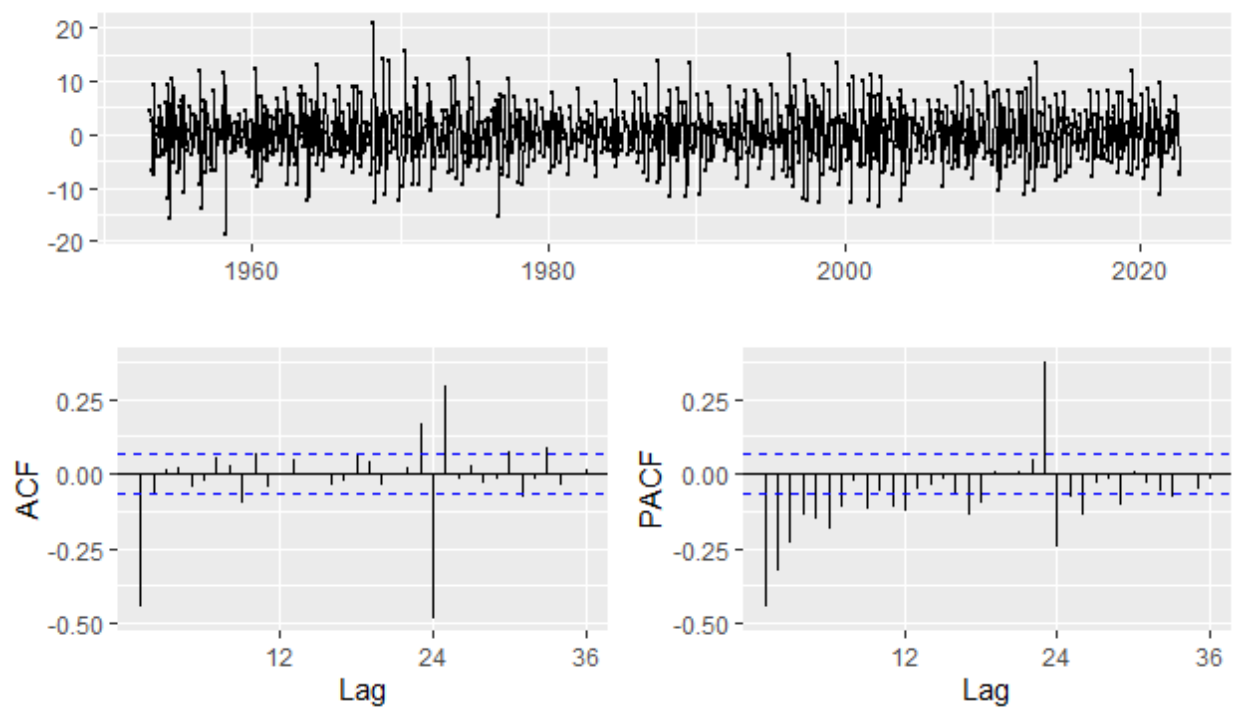


Figure 6: Figure 6

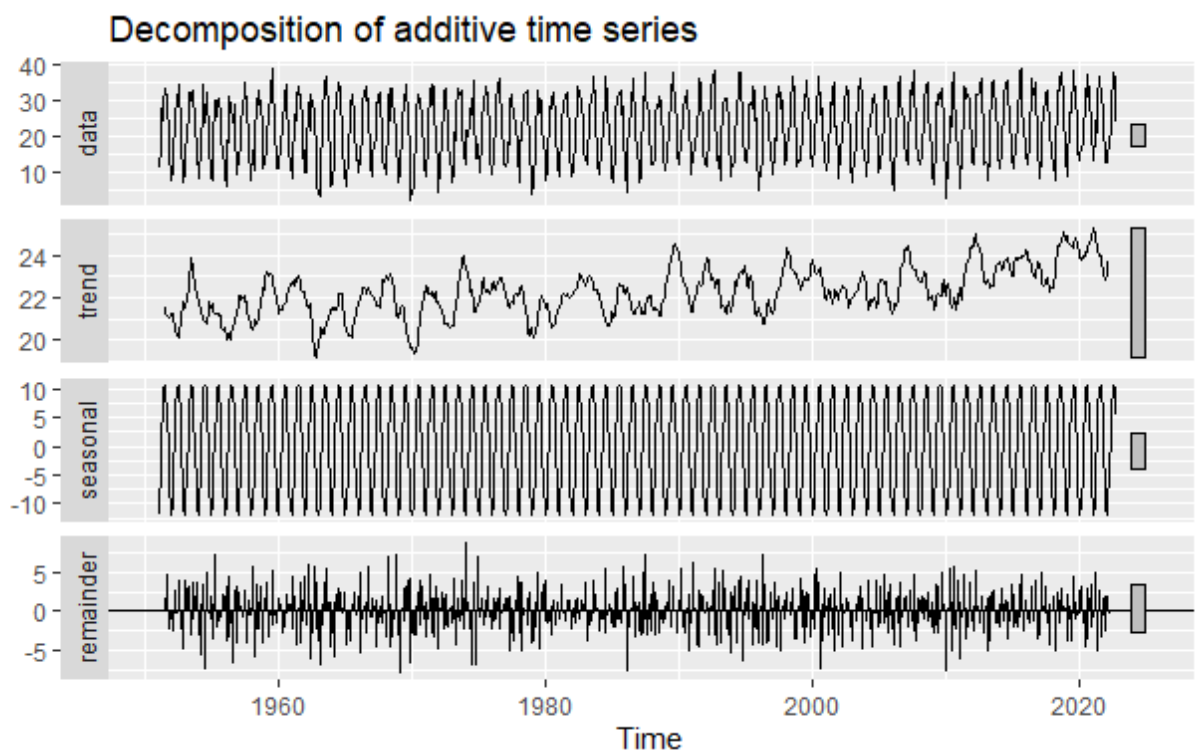


Figure 7: Figure 7