



Environmental Corporate Social Responsibility

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Why does it matter?

Corporate Social Responsibility (CSR) plays an important part in private company cultures.

With the world's attention increasingly turning towards the important, **global** issue of climate change, businesses cannot afford to turn a blind eye.

Therefore, it is becoming increasingly crucial for the success of private companies to incorporate environmental and social responsibility and ethical practices into the business practices and culture.

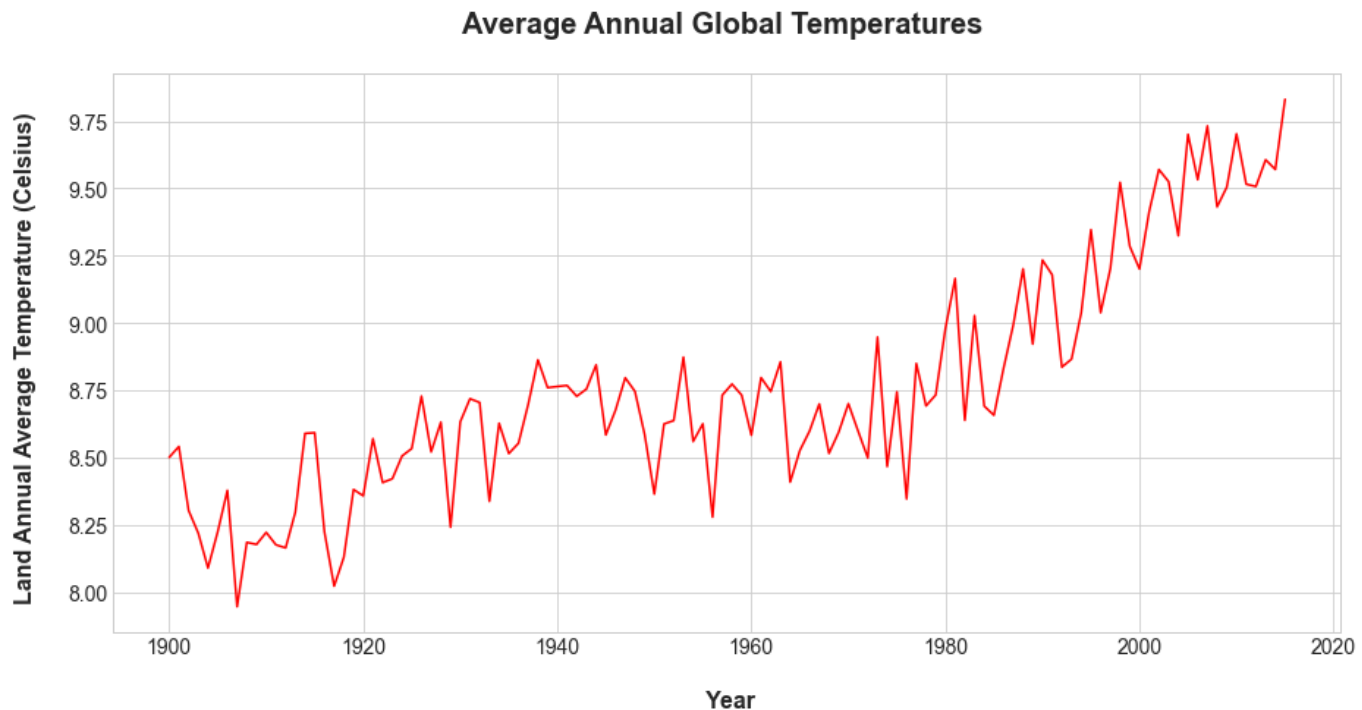




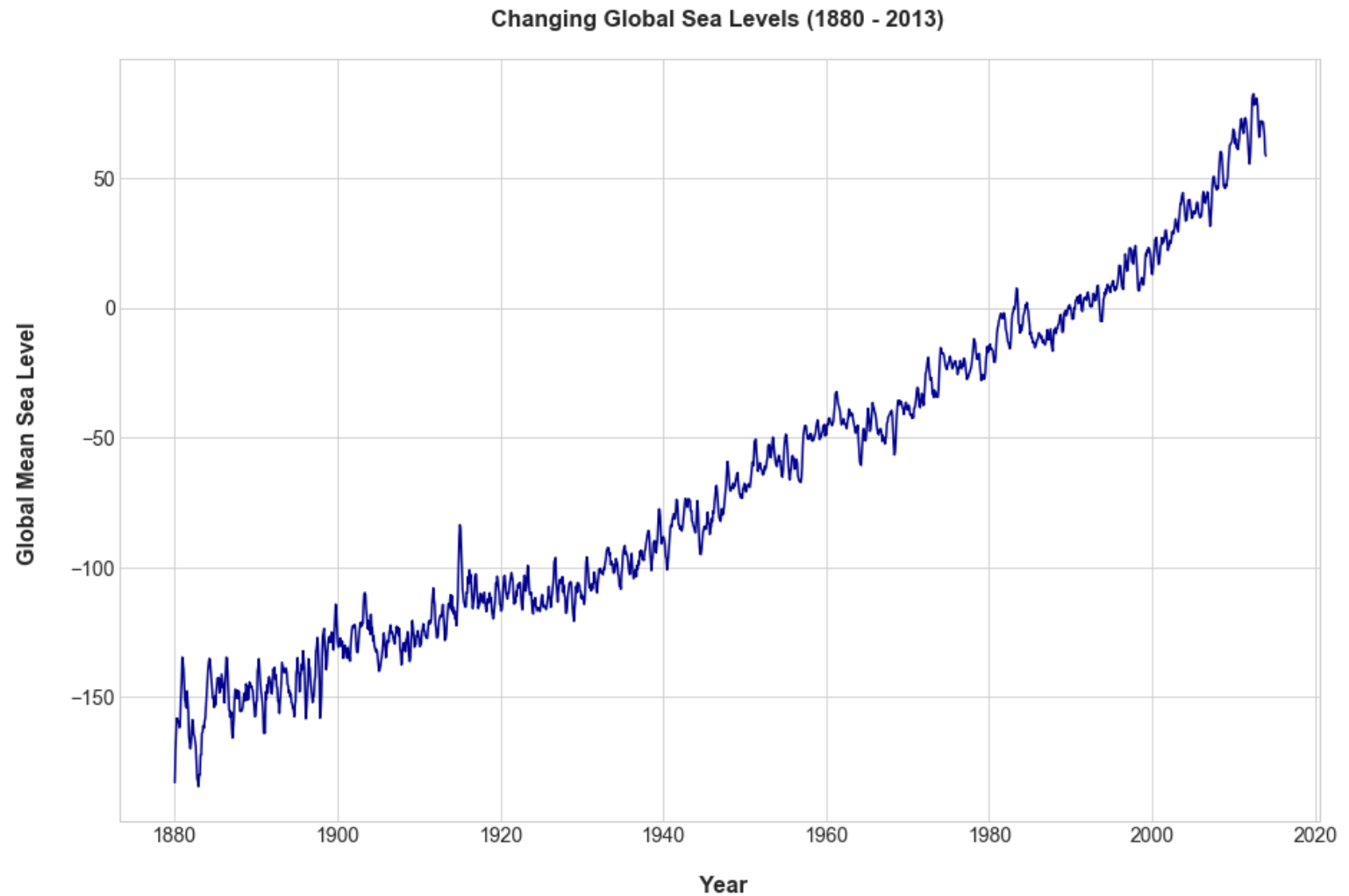
*The Climate is Changing: A Scientific Fact,
not a Political Fiction*

A Global Phenomenon

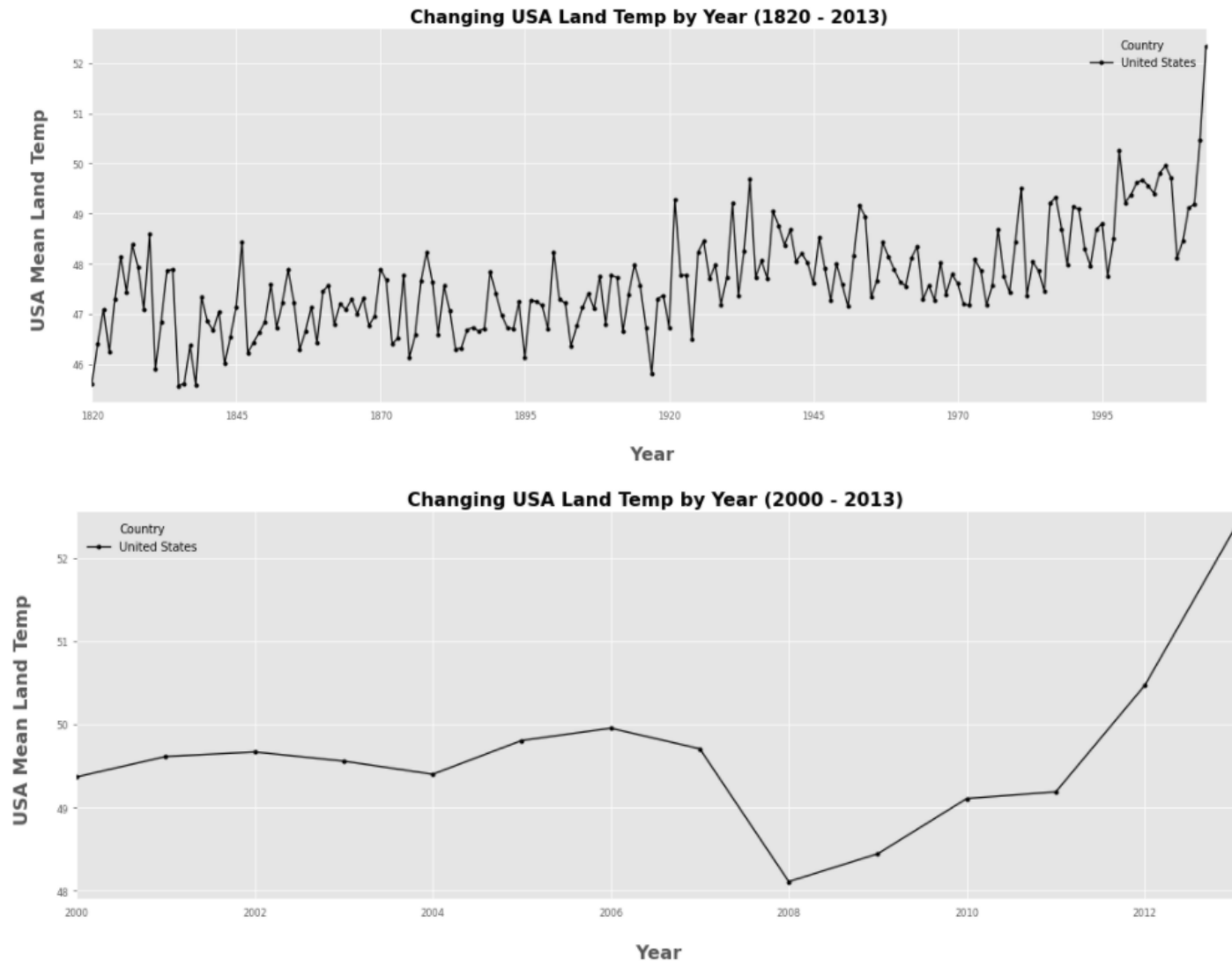
- Temperatures are rising in the United States and all over the world.
- As a result, glaciers are melting, the ocean is warming up and sea levels are rising.
- Occurrences of extreme weather, such as storms, wildfires, heavy rainfall, droughts, etc. are increasing in frequency and material damages.



Rising Sea Levels

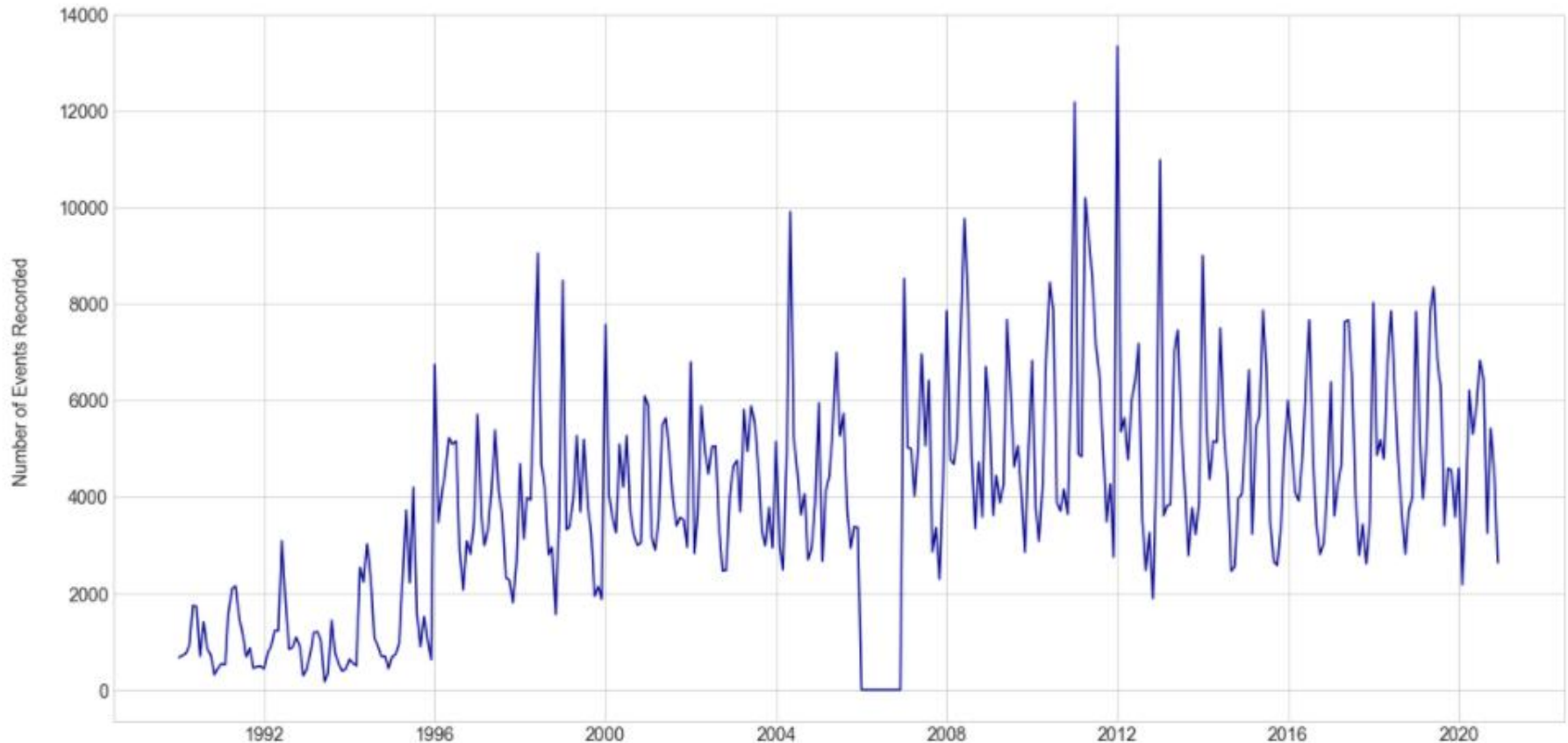


Looking at temperatures in the United States



Extreme Weather: Is it still a freak storm if it occurs more often?

Recorded Monthly Extreme Weather Occurrences in the United States (1990 - 2020)

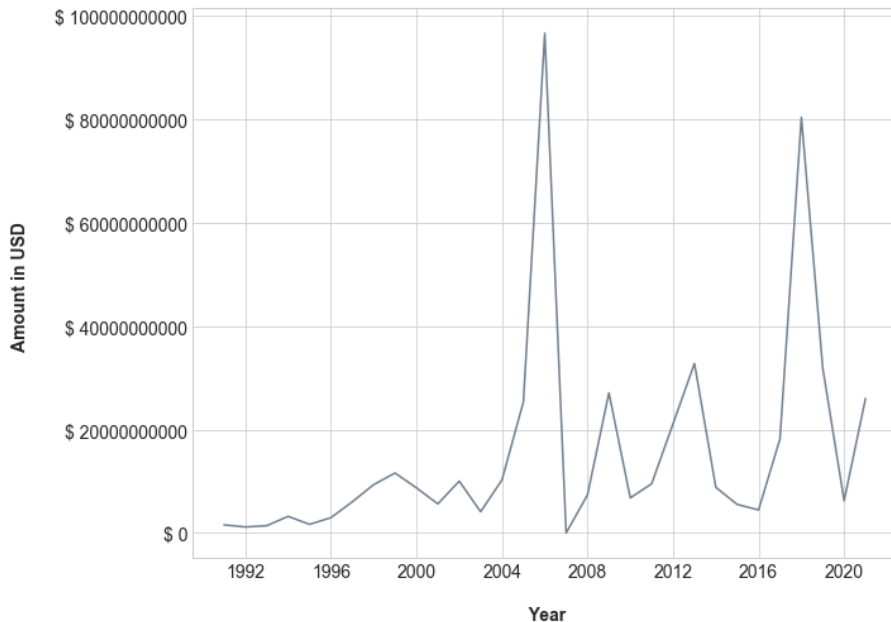


Damages are increasing: are you willing to bear the cost?

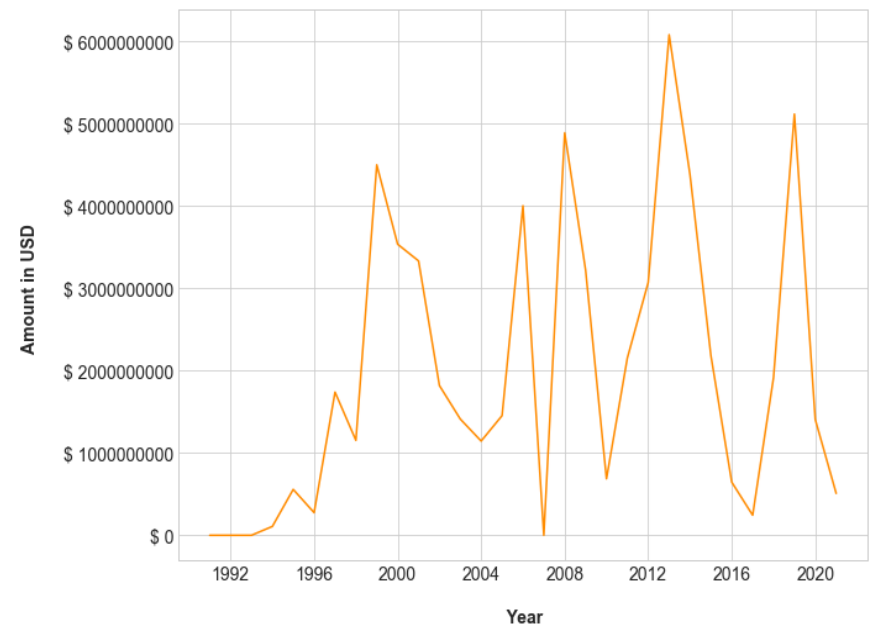
"Taken as a whole, the range of published evidence indicates that the net damage costs of climate change are likely to be significant and to increase over time."

- Intergovernmental Panel on Climate Change

Recorded Annual Property Damages of Extreme Weather Events in the United States (1990 - 2020)



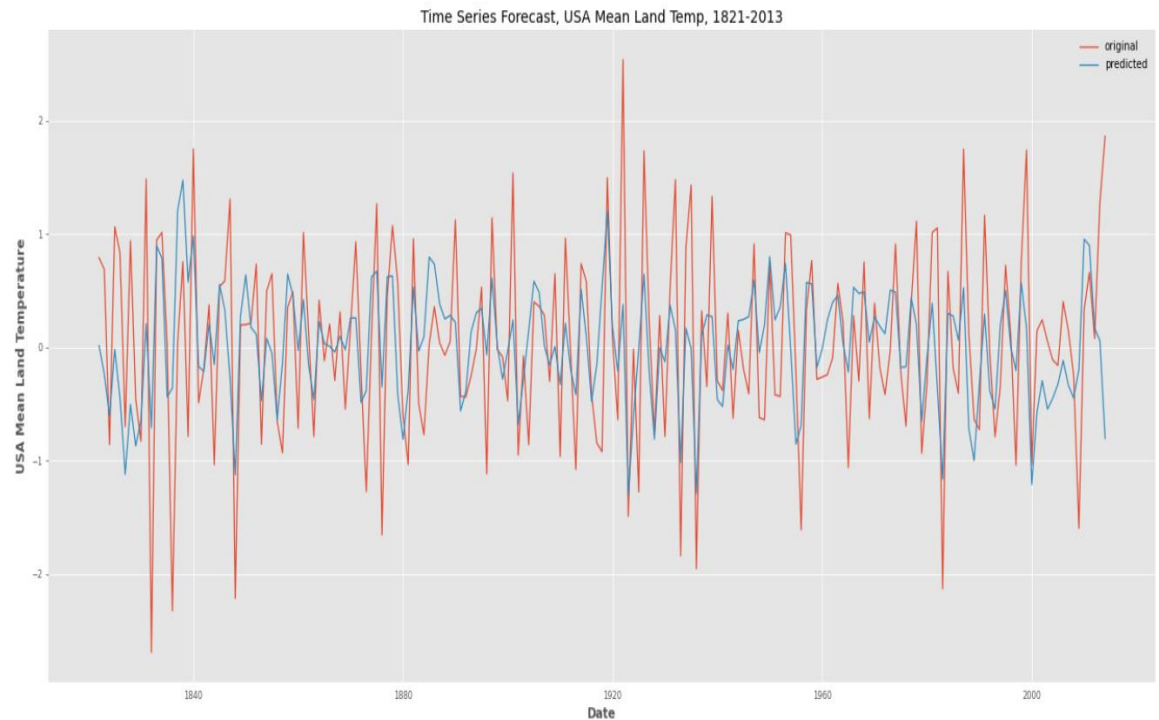
Recorded Annual Crop Damages from Extreme Weather Events in the United States (1990 - 2020)



Model Projections

We used Auto Regressive Integrated Moving Average (ARIMA) to build several models relating to climate change variables, including:

- Greenhouse Gas Emissions
- Average Land Temperature (Global and United States)
- Sea Level Change
- Extreme Weather Event Occurrences



Heavily Impacted Industries

Energy

Insurance

Agriculture

Commercial
Fishing

Automobile



Protect the Environment to Protect Your Profits



A Few Recommendations for a Successful ECSR:

- Conduct periodic environmental assessments to review the firm's impact and commit to reducing the firm's overall carbon footprint.
- Enact corporate policies that benefit the environment to institutionalize a socially responsible corporate culture.
- Increase engagement and investments in socially and environmentally conscious funds and initiatives.

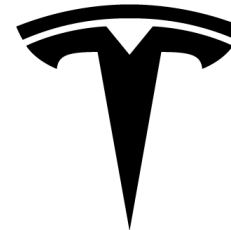
Join the Many Companies Who Are Doing It Right



BOSCH



NETFLIX



TESLA



Coca-Cola

Johnson & Johnson



The **WALT DISNEY**
Studios

Future Research

- Dive into the specific types of weather events recorded in the STORMS database used, to geographically break down which specific events affect which States in the US, in order to generate more location-specific recommendations on action points (e.g.corporate infrastructure, insurance policies).
- Gather additional data on greenhouse gas emissions to build a more accurate model, in order to better examine the growth and impact of GHGs on the environment.



THERE IS NO PLANET B



Thank You for Your Time !

FIND OUT MORE AT: [HTTPS://GITHUB.COM/ANAUliANOVA/CLIMATE_CHANGE_TIME_SERIES](https://github.com/ANAUliANOVA/CLIMATE_CHANGE_TIME_SERIES)