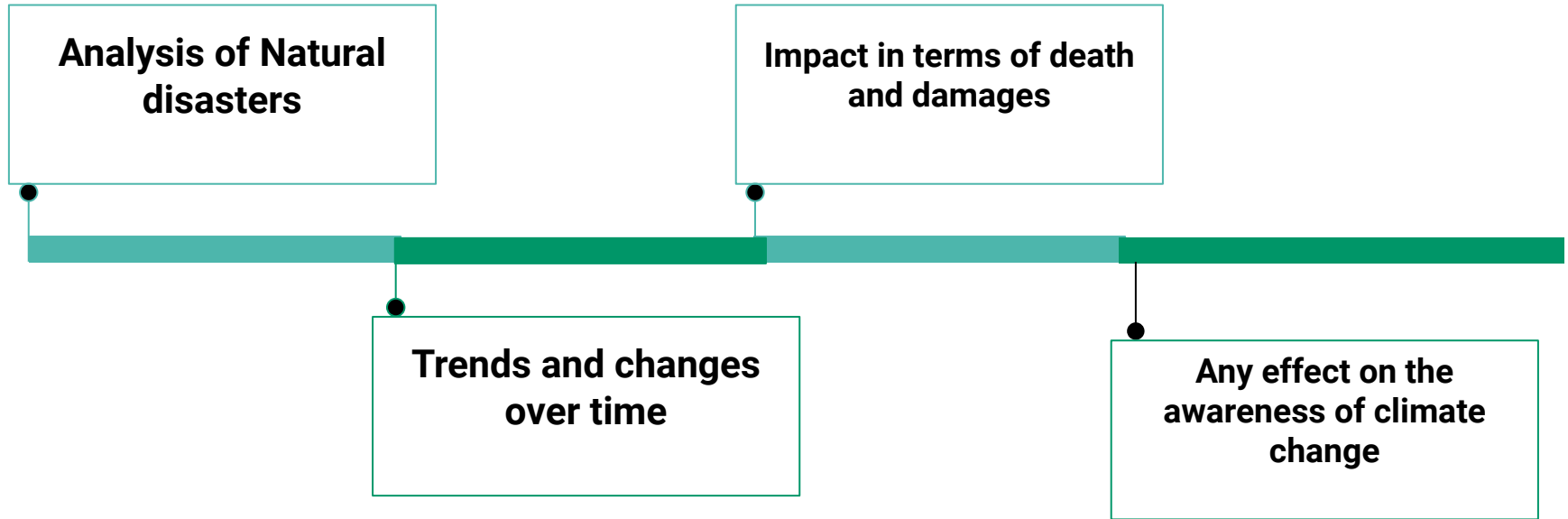


Impact of Natural Disasters

by Jaya Sahithi, Pujika Kumar, Andy Liu,
Gaopo Huang, Jiawei Zheng (group 2)

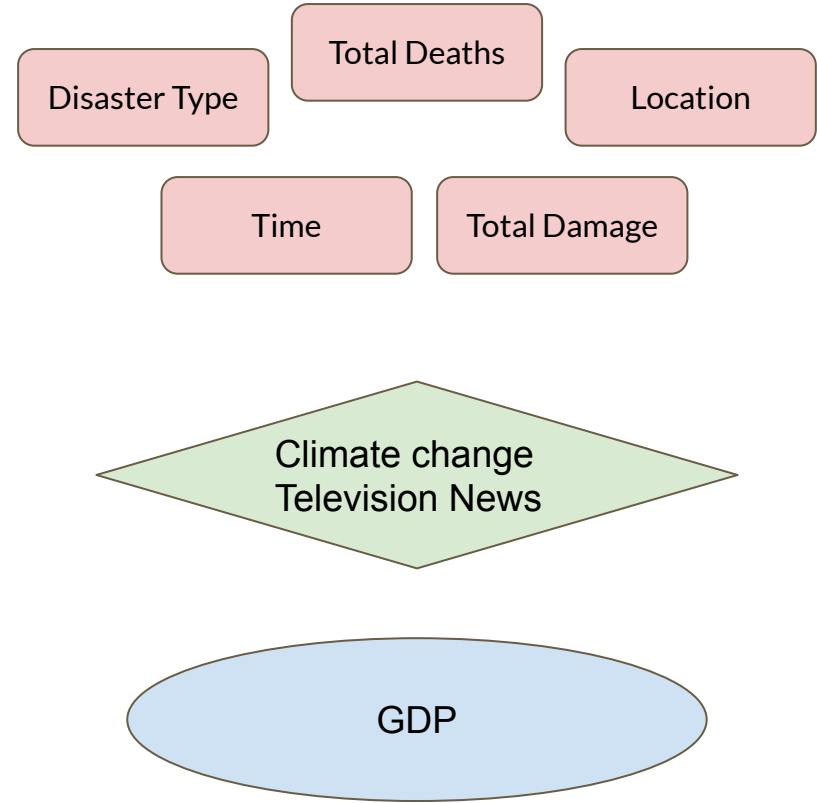
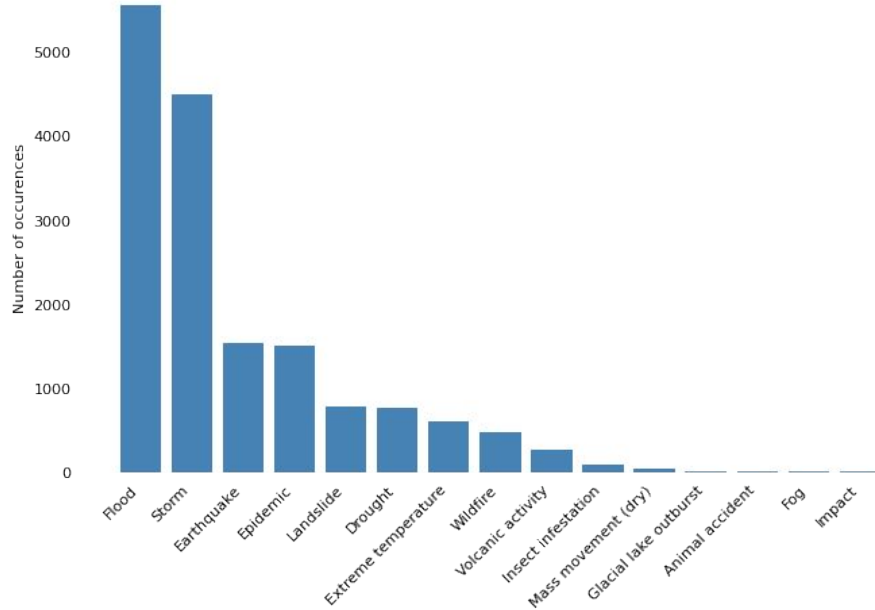


Motivation and objective

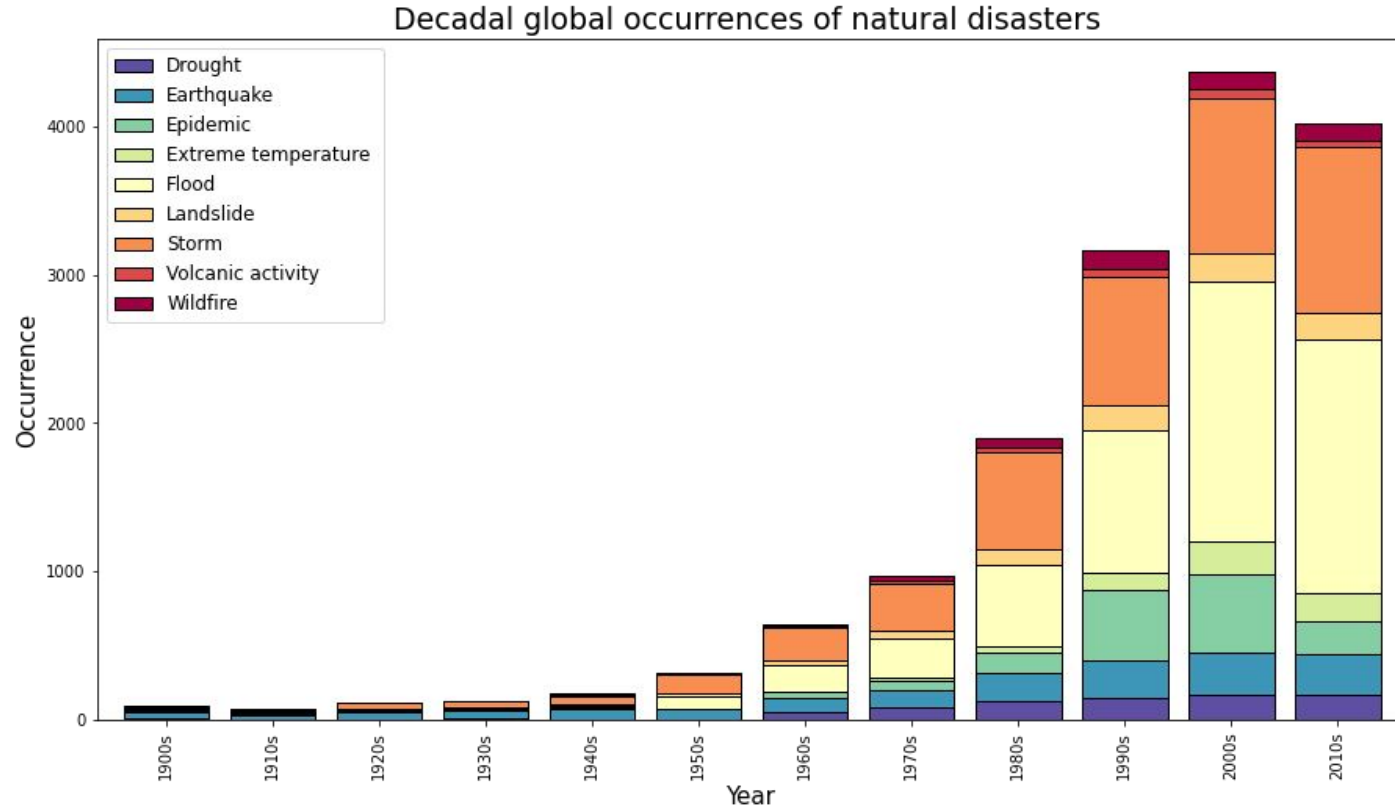


Datasets used in the analysis

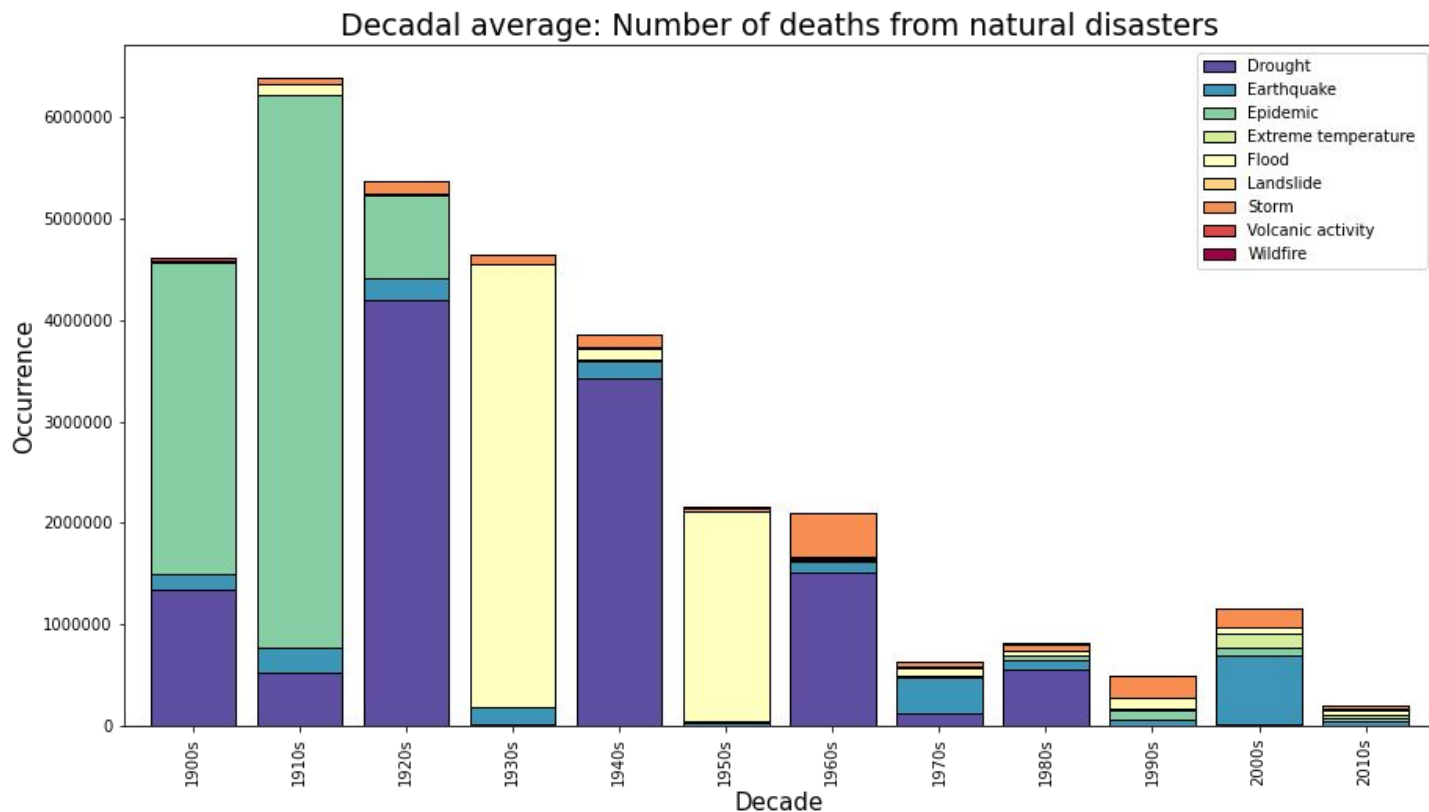
Occurence of natural disasters over the past century



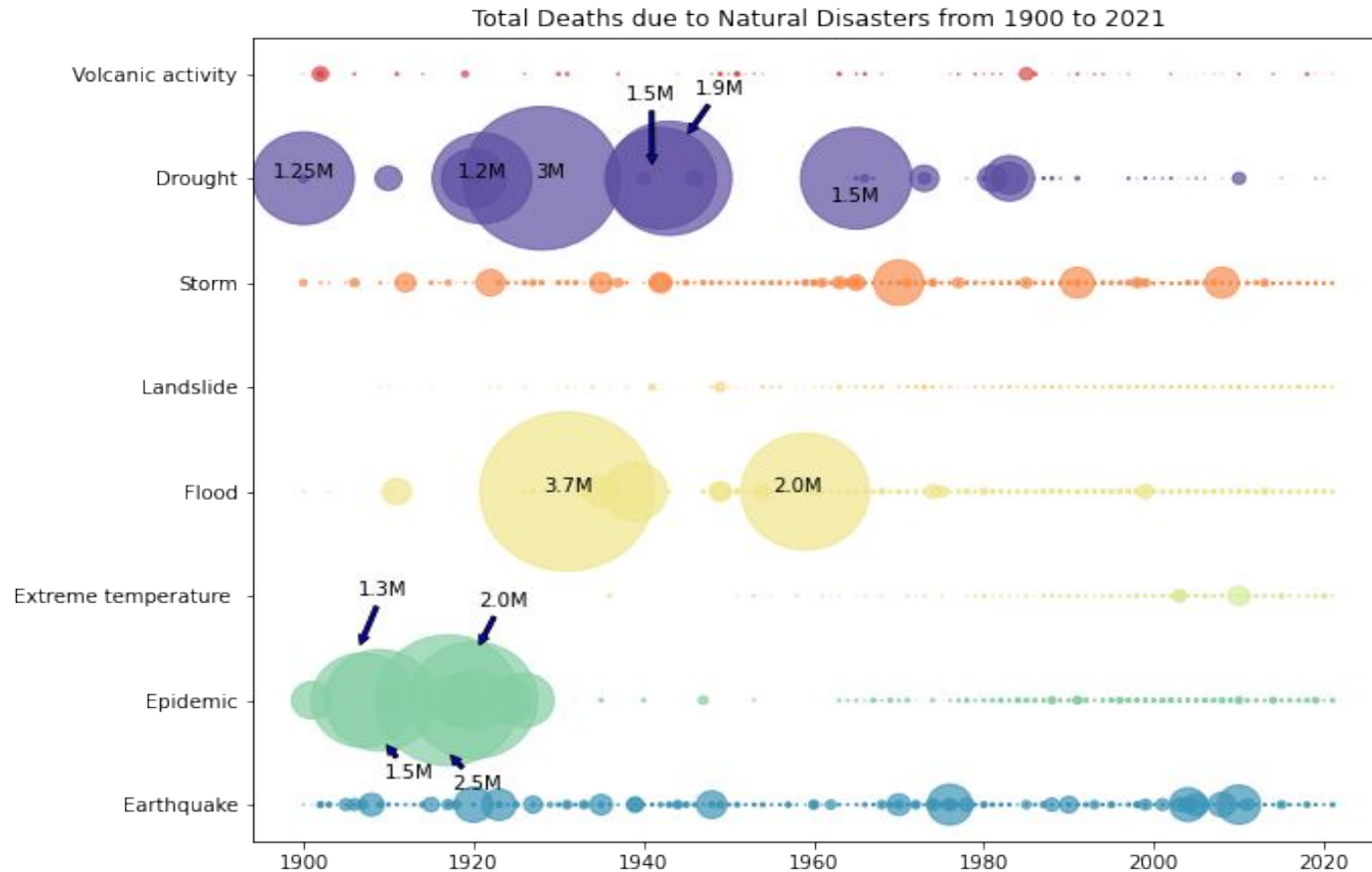
The occurrence of disasters increased over time



But the deaths caused by the disasters has decreased

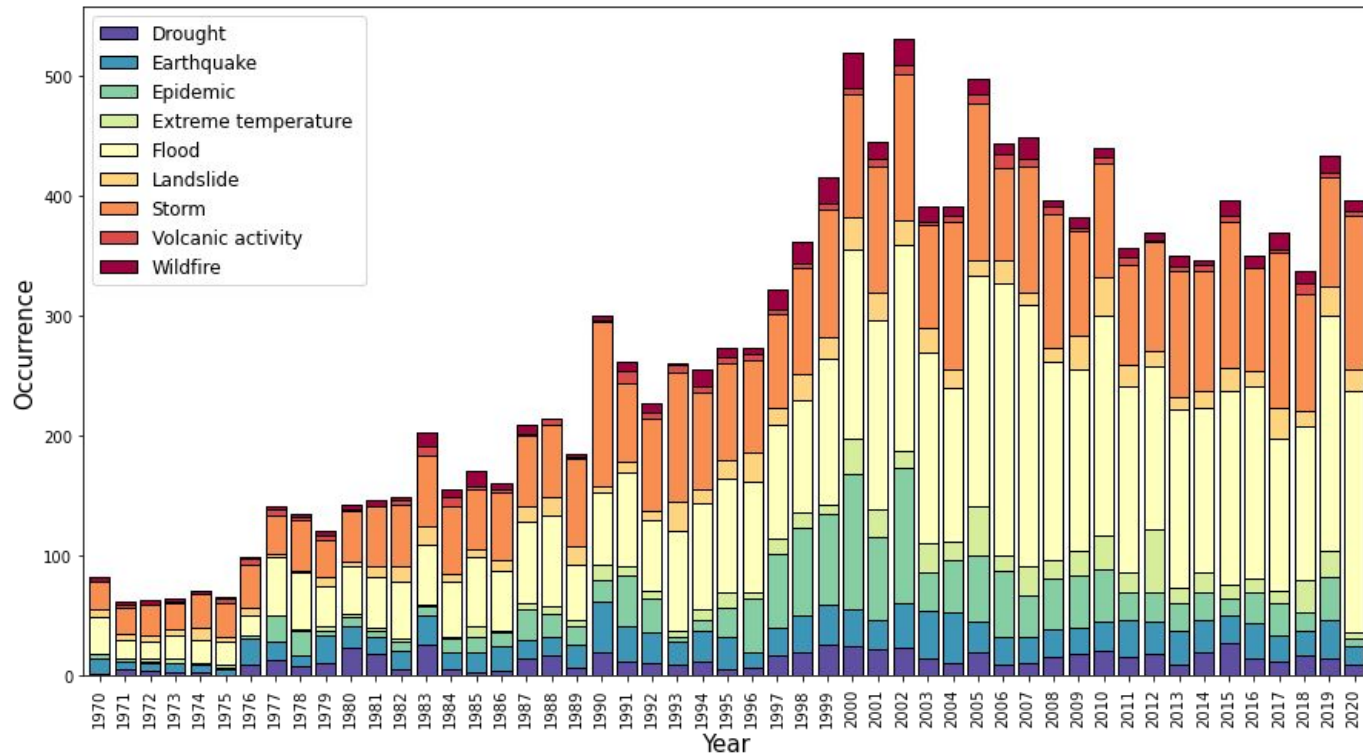


Historically, droughts and floods were the most fatal disaster events. Deaths from these events are now very low – the most deadly events today tend to be earthquakes.



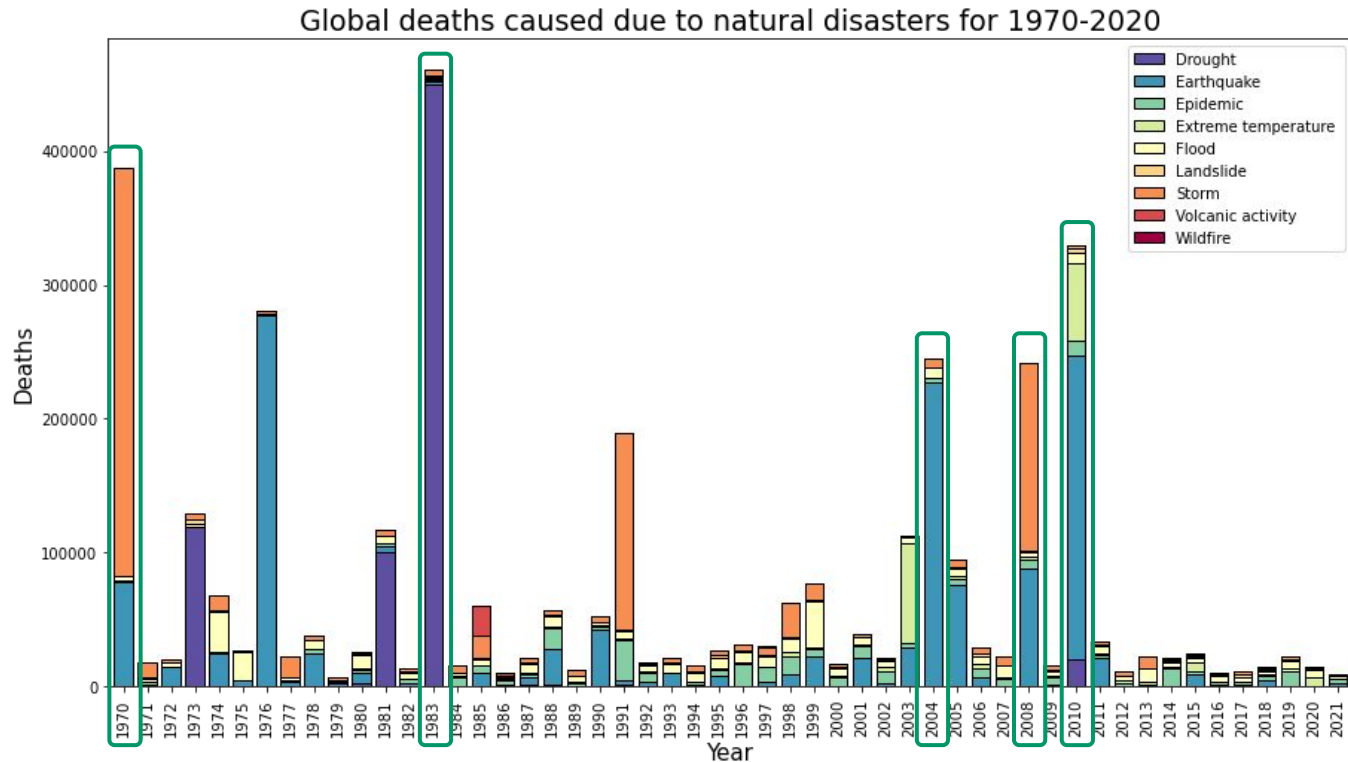
Trend in occurrence of disasters has increased significantly in the past 50 years

Global occurrences of natural disasters for 1970-2020



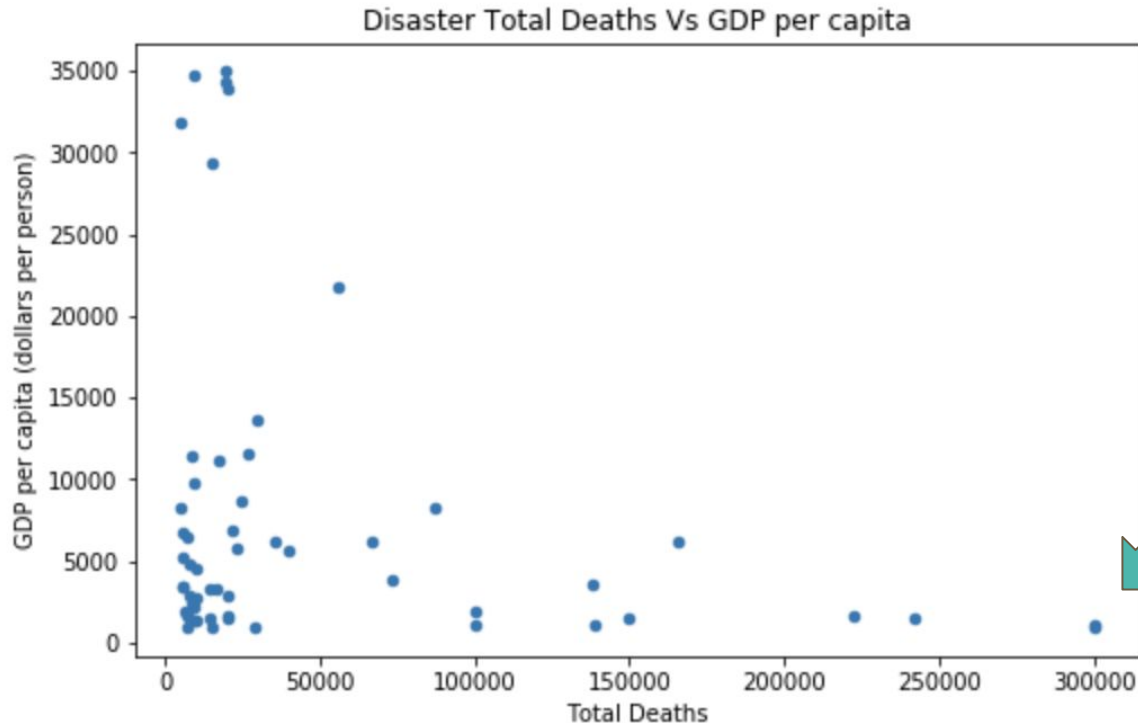
Flood has the most occurrence followed by storm.

The deaths depended on the magnitude of the disaster

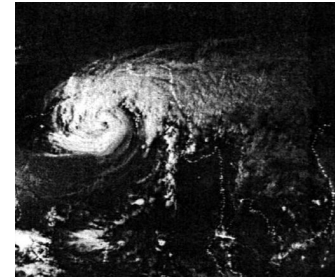


Or are there
any other
factors?

Countries with over 5000 deaths in a disaster compared with the GDP



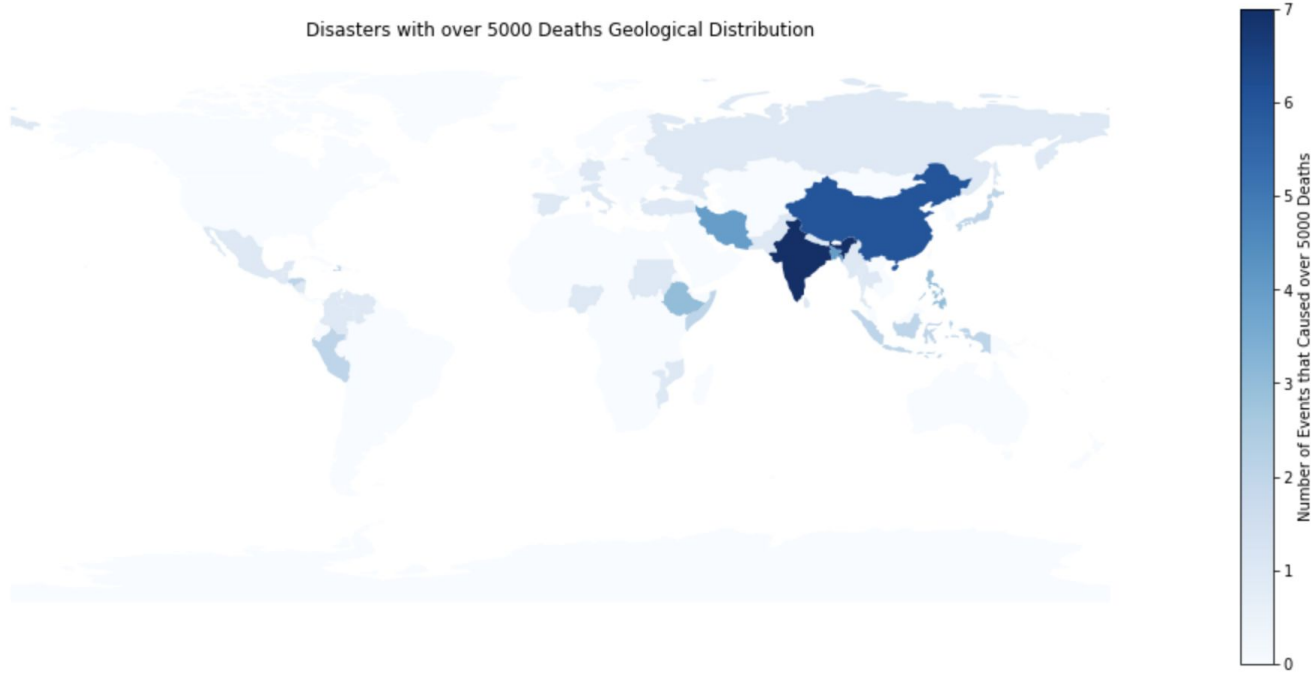
1970 Bangladesh Cyclone



One of the deadliest natural disaster in human history. Government was criticized for non-existent relief program.

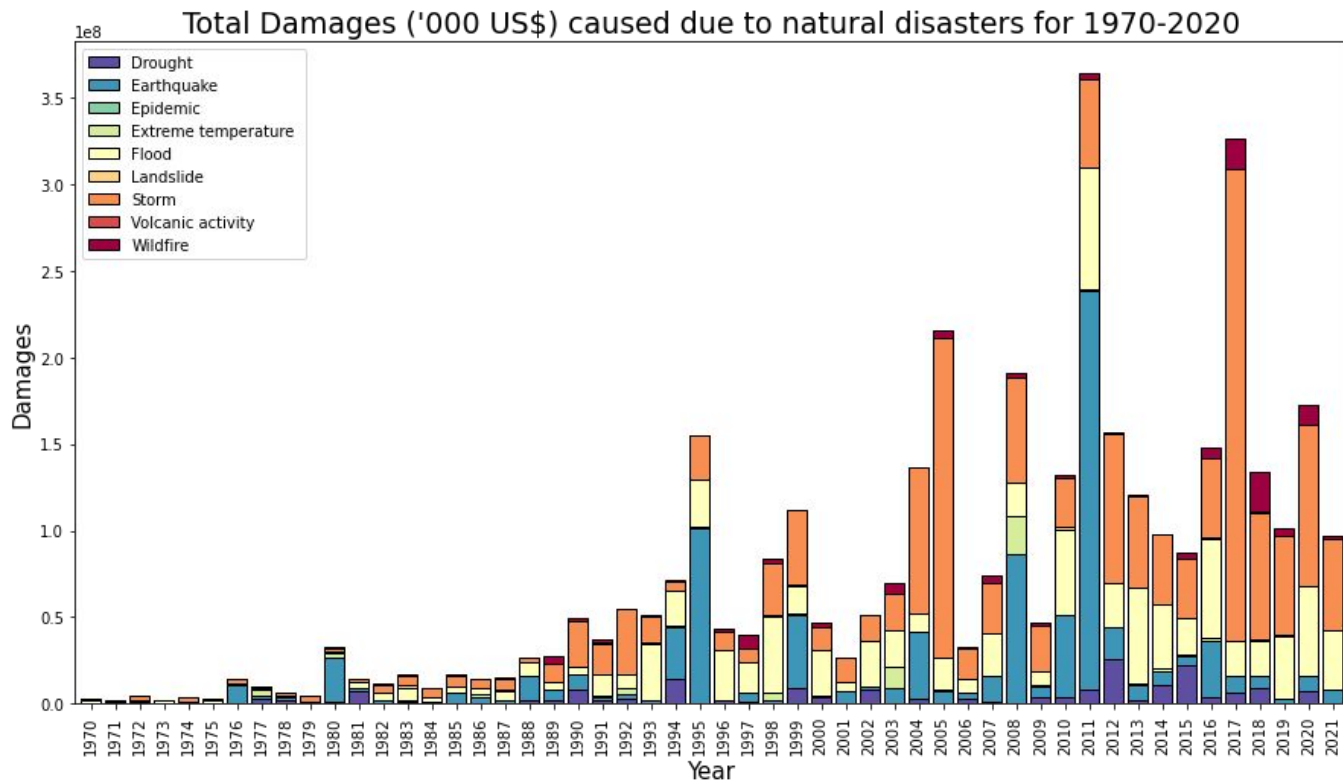
Most important culprit?

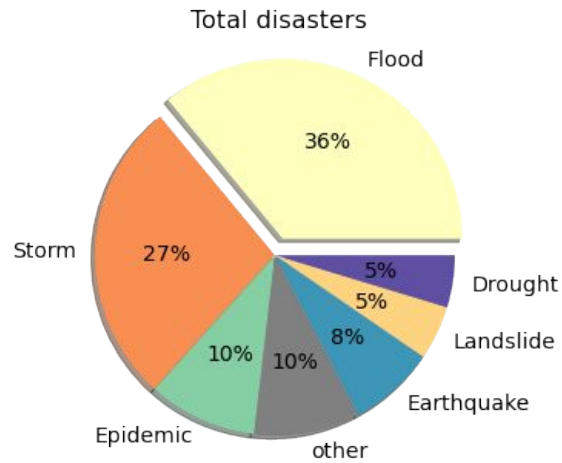
Disasters with over 5000 Deaths Geological Distribution



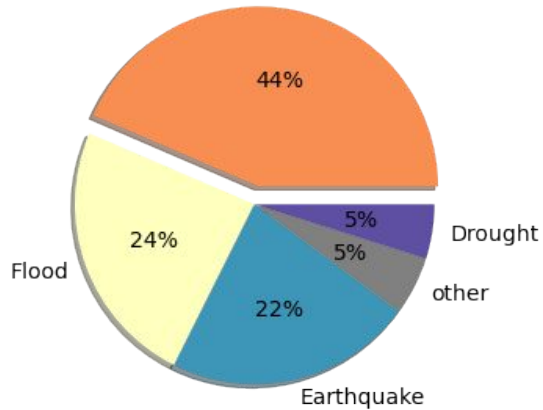
Most of them are densely populated countries

The damages were in general proportional to the occurrence of disasters



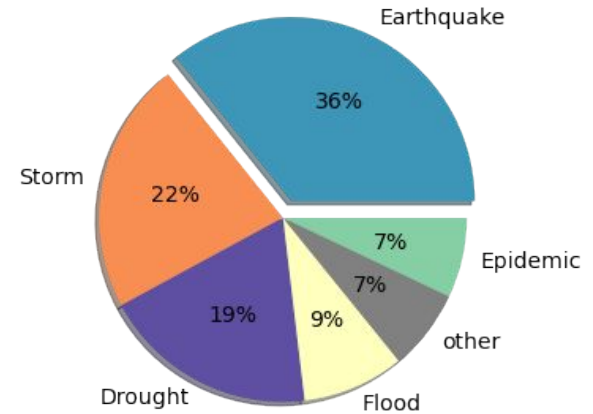


Which disaster causes the most damage

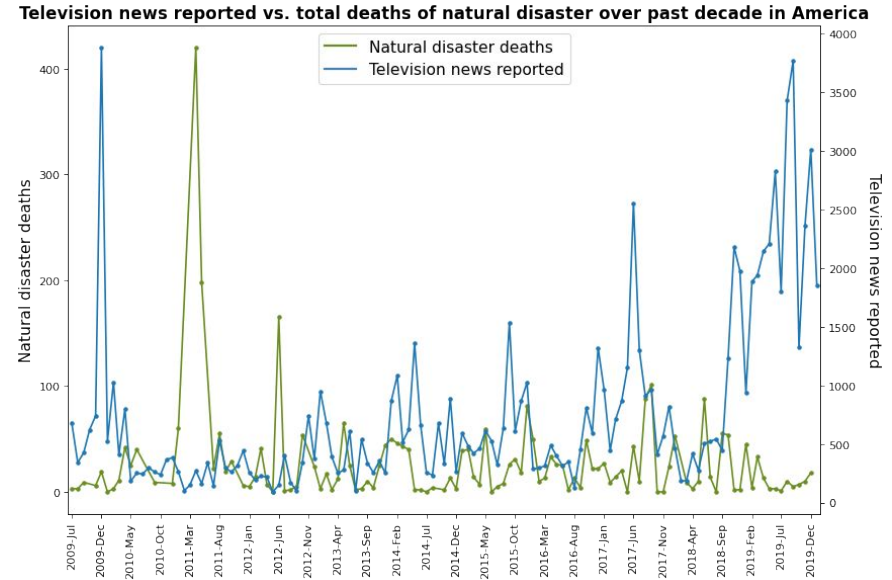
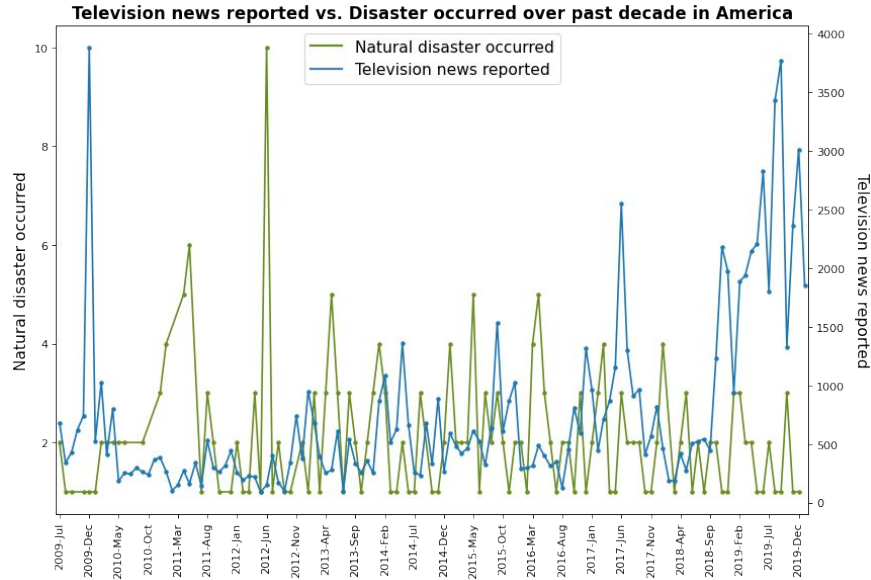


**Disasters and
their impact in
the past 50
years.**

Which disaster causes the most deaths



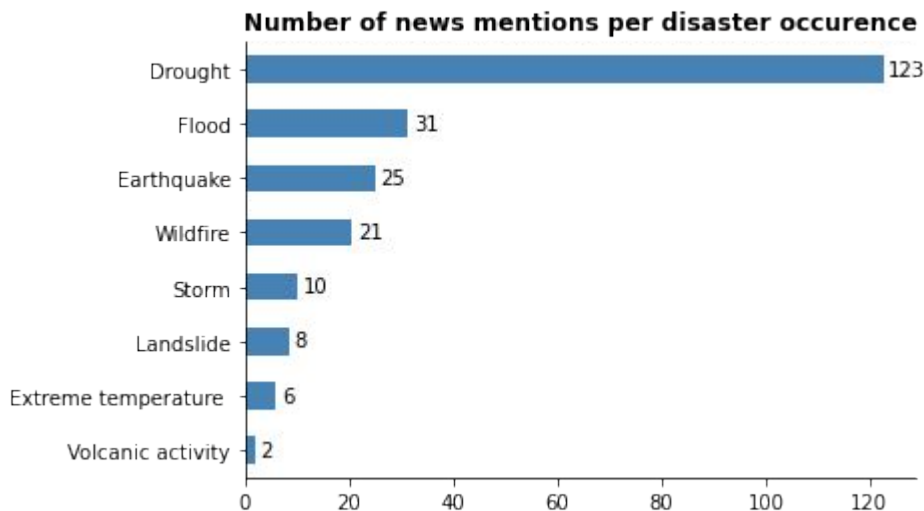
Correlation between Climate Change Television News and Natural Disaster in America



- Examining the [Climate Change Television News dataset](#) to analyze the impact of natural disaster on public awareness of climate change
- Disaster occurrences or its severity do not link to climate change awareness

Which type of disaster invoked more climate change awareness?

$\frac{\text{\# of news articles on natural disaster type}}{\text{\# of natural disaster type occurrences}}$



- Not all disaster types have the same effect on climate change awareness
- For each occurrence of drought, there are on average 123 articles about climate change

Conclusion

- Increase in the occurrence of natural disasters.
- Decline in deaths from natural disasters over the past century.
- Disasters affect those in poverty most heavily.
- Different natural disasters have varying influences on drawing attention to climate changes.

Q&A

