

# Visualizing Billion-Dollar Disasters in the USA (1980–2024)

Oh Jia Wei Darien, Peter Febrianto Afandy, Quek Joo Wee, Desmond Loy Yong Kiat, Rene Low Yi Xuan, Phileo Teo Weihan (SIT-UoG Computing Science)



## INTRODUCTION

...

## PREVIOUS VISUALIZATION

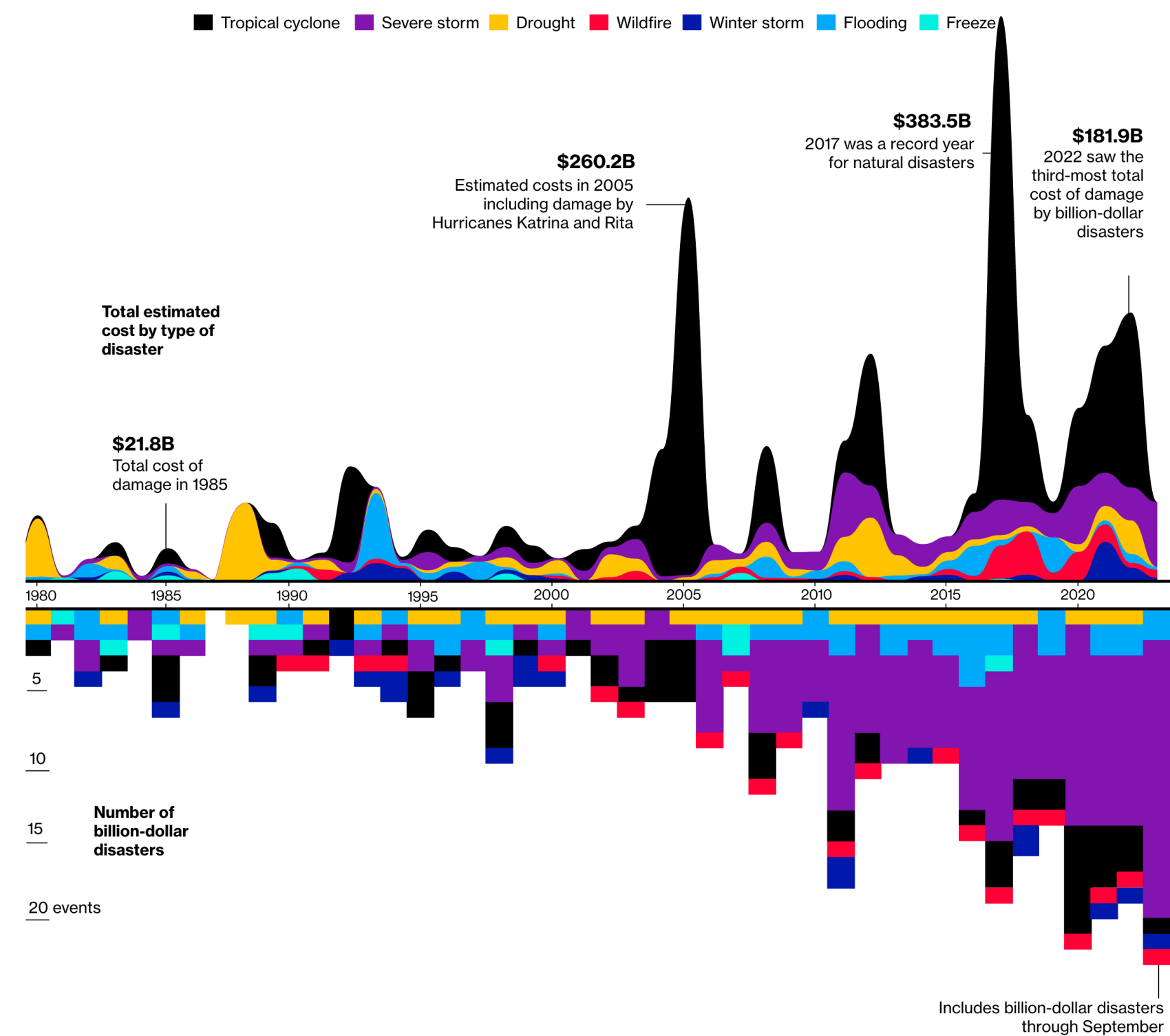


Figure 1: Frequency and Estimated Costs of Billion-Dollar Disasters in the USA by year, published by Bloomberg.

## STRENGTHS

- ...
- ...

## SUGGESTED IMPROVEMENTS

1. ...
2. ...

## IMPLEMENTATION

### Data

- ...
- ...

### Software

We used the Quarto publication framework and the R programming language, along with the following third-party packages:

- *tidyverse* for data transformation, including *ggplot2* for visualization based on the grammar of graphics
- *knitr* for dynamic document generation

## IMPROVED VISUALIZATION

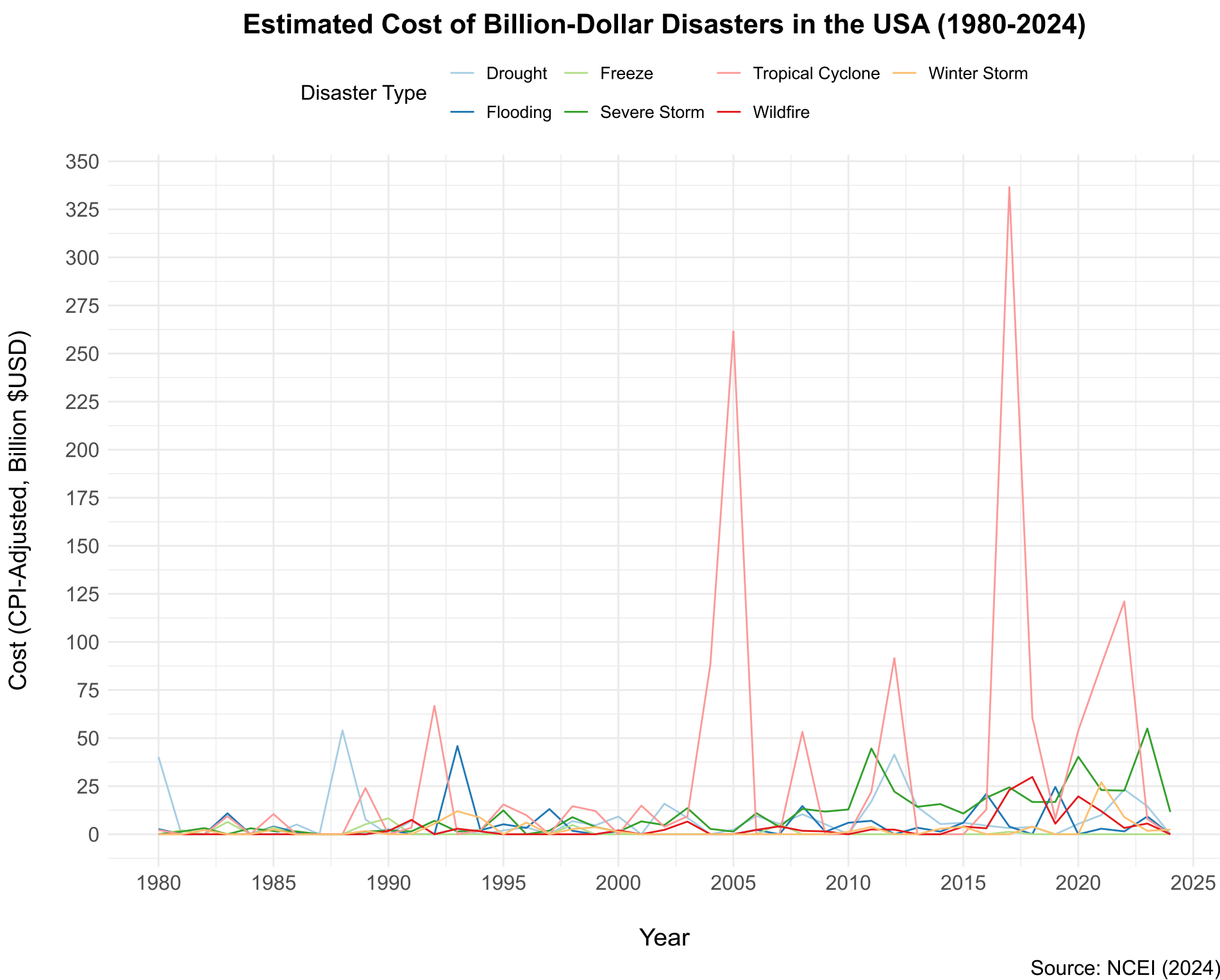


Figure 2: Revised visualization of Estimated Costs of Billion-Dollar Disasters in the USA by year.

## FURTHER SUGGESTIONS FOR INTERACTIVITY

...

## CONCLUSION