

## VizItCards – Climate

Important: *Please do not go searching on the Web for ideas. You should work through your own solution first.*

You have been given the task of visualizing the shifting climate zones across the US over the past century, using historical data and future projections. Climate change has altered the traditional boundaries of climate zones, and your goal is to show readers how these changes have unfolded and what the future might look like.

There are multiple ways to approach this problem. You can focus on the historical changes, showing how temperature and precipitation have shifted climate zones over time, or you can include future projections to allow readers to see possible scenarios. Should the article focus on explaining these shifts in a fixed manner, or should you allow users to explore the data interactively, making their own conclusions about the extent of the changes?

Your challenge is to decide how best to represent the data and how to enable the reader to grasp the magnitude of the shifts across the country and what it means for different regions.

The available data is as follows:

- **Daily climate data for major cities around the world from 1950 onwards:**
  - temperature
  - precipitation
  - humidity
  - wind speed and direction
- **Climate events (heatwaves, droughts, storms, etc.)**
  - start and end dates of event
  - location
  - event type
  - severity
- **Geographical information:**
  - present geographical boundaries for Köppen Climate Classification zone categories (e.g., temperate, arid, etc.)
  - projected future climate zone boundaries based on climate change models
  - longitude, latitude, and altitude of major cities around the world