**Topics**

My project is about U.S. Climate Extremes Index (CEI) to find out how has the climate changed over recent 50 years in different Regions of U.S.

**Purpose**

I found this topic important since the extreme climates will cause unpredictable casualties and financial loss. If people can prepare for the regional extremes, the loss can be minimized.

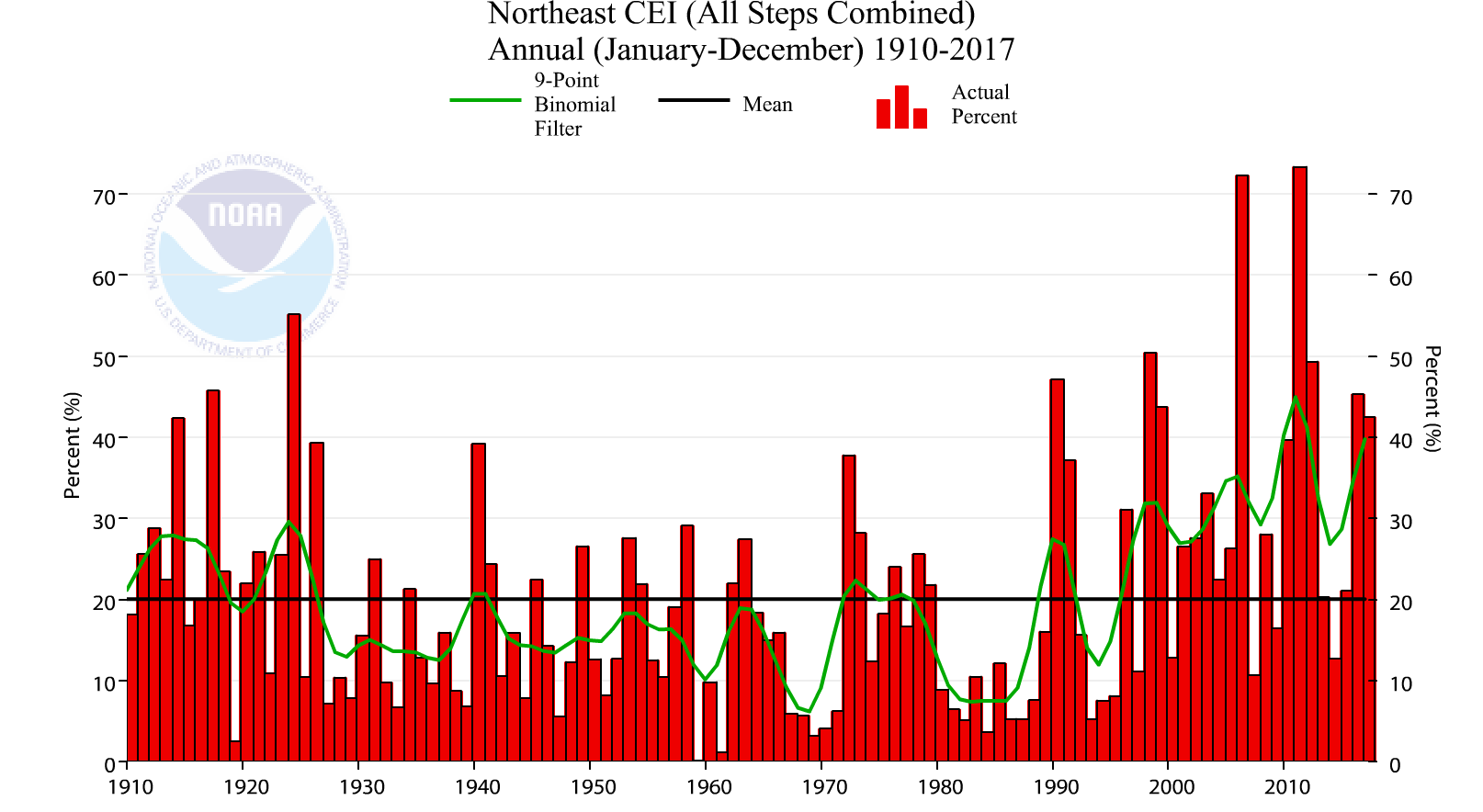
One interesting thing about this project is that I need to consider a large number of outliers to figure out how these outliers can be explained by previous data.

I want to tackle this problem because I am curious that why exactly there are much more abnormal climate changes in different areas. Is the global temperature increase the main cause for the most of the events in different regions in different periods? If not, what other cases will be the main causes?

**Data Used**

The data used in this project mainly come from NOAA database and some major extremes statistic reports. The NOAA’s database will include regions, periods, temperature, precipitation, tropical cyclone indicators, landfalling and so on. The reduced data size for the database is over 100MB.

**Graphs**

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