



Sea Level Rise and New York City



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Project Description

- Climate change is causing sea levels to rise, and leading to more intense storms
- New York City is vulnerable due to its low elevation and high population density

Research Question:

- How does the threat of sea level rise affect New York City's population and real estate market?

Methodology/Data

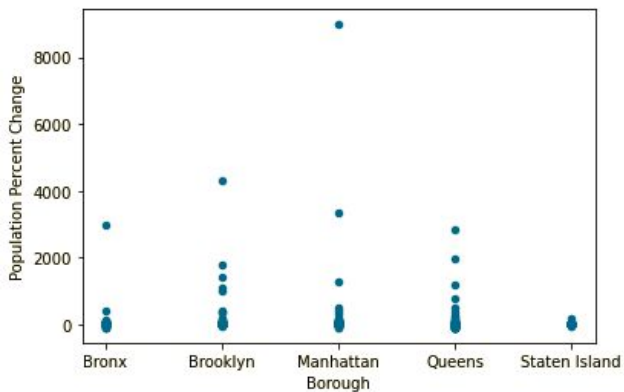
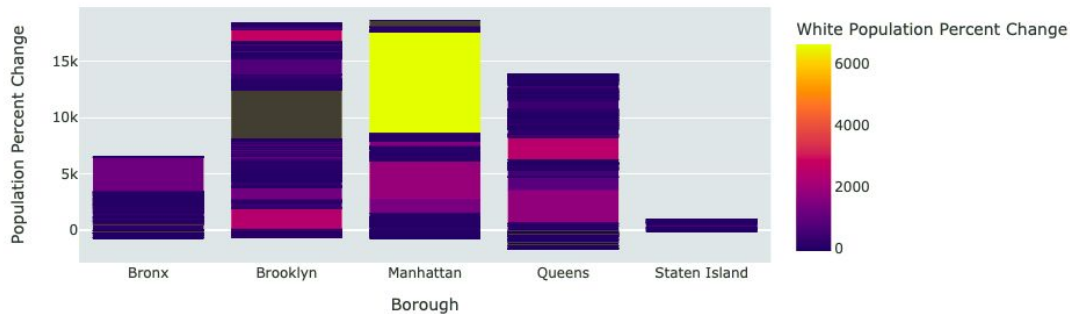
Census

- Population characteristics, changes from 2010 to 2020
- Source: NYC OpenData

Sea Level Rise Data - NYC OpenData

- 100-year and 500-year flood projections for the 2020s
- Source: NYC OpenData

Charts and Maps

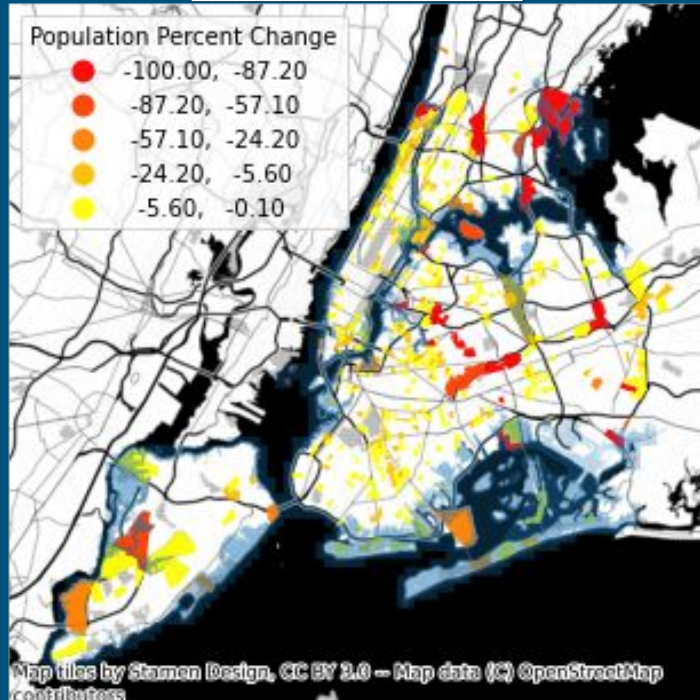


Population Percent Change in each NYC Borough

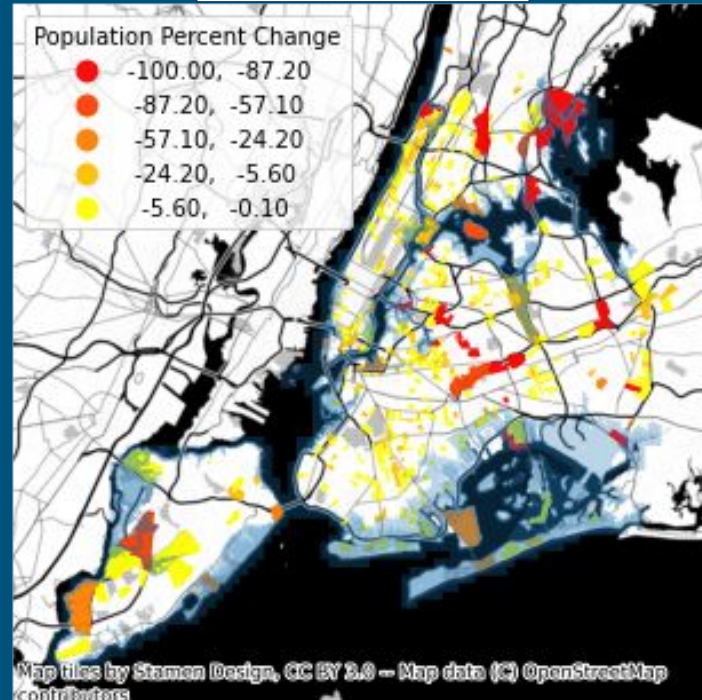


Charts and Maps

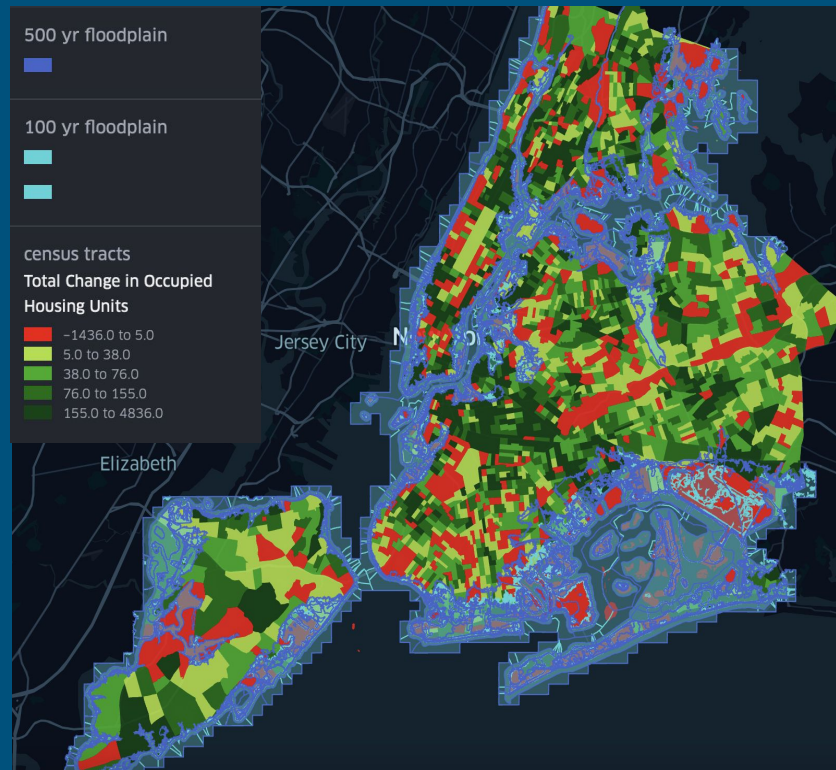
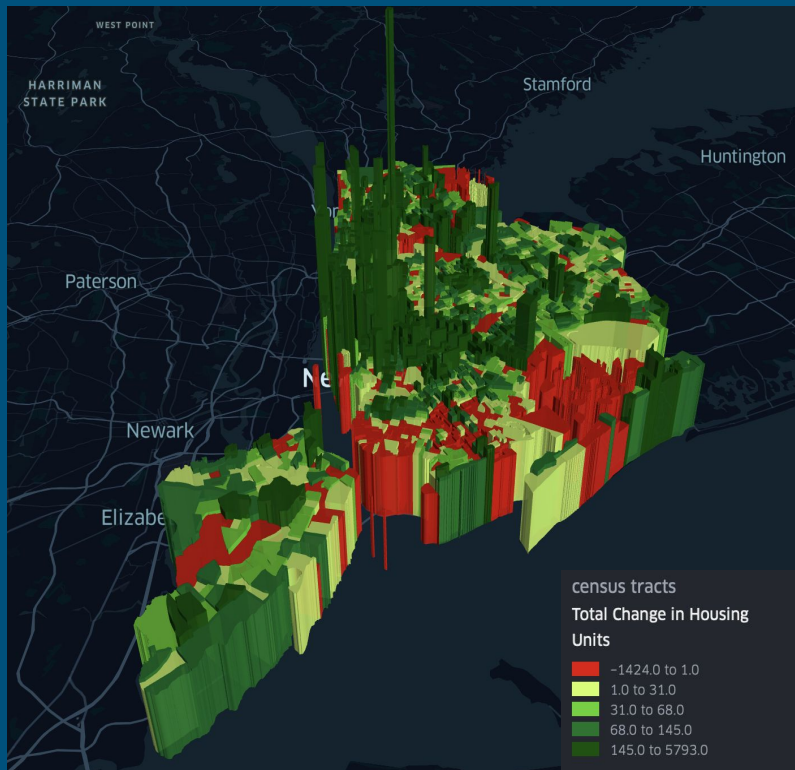
100-year floodplain



500-year floodplain



Charts and Maps



Analysis

No perceived relationships between projected sea level rise flooding and population changes from 2010 to 2020. Small relationships between sea level rise flooding and housing units.

This data also reflects, to an extent, where past flooding has occurred, and how it has not significantly changed certain population statistics.

Next Steps

1. Adding housing market/financial data to the analysis
2. Refining current analyses and exploring other potential correlations
3. Compare with Hurricane Sandy flood data?
4. Think about insurance data