

catastrophic as most people believe.

annual temperature and precipitation of Carolinas from 1895 -2017 are plotted to show the temporal

trends of both variables. The drought data are analyzed from 2000 to 2018. Decadal variations of

severe weather from 1950 -2106 are spatially illustrated using ArcGIS software. It is noted that there

is no significant trends or patterns in these data that indicate any conspicuous shifts of climates in

Carolinas. However, climate change does occur, and the short period in this study may obscure the signature of climate change. Nevertheless, the impact of climate change to Carolinas may not be as

Implications of Climate Change in North and South Carolina in 1950 - 2016



CONCLUDING REMARKS

Population data from US Census Bureau, NC Budget and Management Office, and South Carolina

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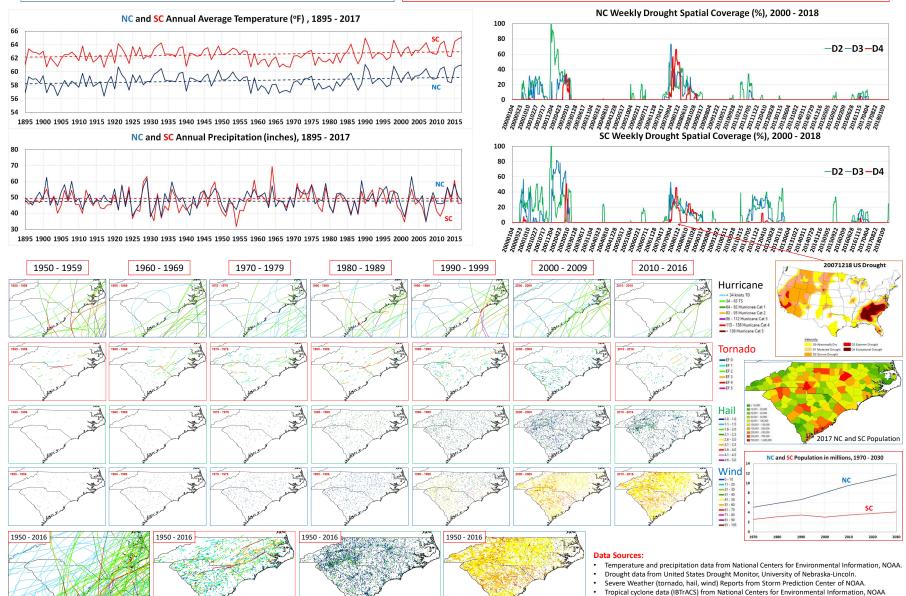
ABSTRACT

This project is to investigate the recent climate change in North and South Carolina. The time series of No significant trends in annual temperature and precipitation in 1895 – 2017; Severe droughts have not occurred since 2008;

Number of landfalling tropical cyclones has decreased;

- Tornadoes occur mostly in Eastern North Carolina and Central South Carolina, the statistics do not show an increase in frequency;
- More tornadoes occur in South Carolina than North Carolina;
- Hail and wind reports have been increasing in the last two decades due to advanced observational platforms and techniques;
- Hail and strong wind events concentrate in Western North Carolina and Upstate South Carolina;





Hail

Wind

Revenue and Fiscal Affairs Office.

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Tornado

Hurricane