

***NOAA's State Climate Summaries for the National Climate Assessment***

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The National Centers for Environmental Prediction (NCEI) and the North Carolina State University Cooperative Institute for Climate and Satellites (CICS–NC) have produced a set of NOAA State Climate Summaries for all 50 U.S. States. These state summaries were produced in response to a growing demand for state–level information as part of the National Climate Assessment and Sustained Assessment activities. Each state summary includes information on observed and projected climate change conditions and impacts associated with future greenhouse gas emissions scenarios. The summaries focus on characteristics of the physical climate and coastal issues as part of NOAA’s mission. Core climate data and simulations used to produce these state summaries have been previously published, and have been analyzed to represent a targeted synthesis of historical and plausible future climate conditions for each U.S. state.

Each state’s historical climate conditions encompass the state’s climatology, as well as noteworthy historical extreme events, which are presented in order to provide a context for assessment of future impacts. These summaries were compiled with additional input provided by climate experts in each state, to include the NOAA Regional Climate Centers and State Climatologists. The future climate scenarios, based on well–known and consistent sets of climate model simulations on possible futures of greenhouse gas emissions, present an internally consistent climate picture for every state and are intended to inform the potential for impacts of climate change.

Each state summary is comprised of text, figures, and an interactive web presentation. A full suite of the comprehensive analyses and metadata are available for all states. The audience for this project is targeted for decision–makers and the general audience alike. For this presentation, we will focus on the state summaries for North and South Carolina, highlighting the climate information specific to each.