



Name	Assessing the Impact of Saltwater Intrusion in the Carolinas under Future Climatic and Sea Level Conditions
Description	From the Executive Summary: "The goal of this research is to support coastal decision-makers in North Carolina and South Carolina by providing information about potential future precipitation and sea level conditions under increased climate variability and by examining how industries, community water and sewer districts, and coastal resource managers might adapt to future changes in the freshwater supply. To this end, scientists from the Carolinas Integrated Sciences and Assessments (CISA), United States Geological Survey (USGS) South Carolina Water Science Center, and Advanced Data Mining International (ADMi) investigated the threat of saltwater intrusion in the Yadkin-Pee Dee River (YPDR) basin under conditions influenced by ongoing and future climatic change, with an emphasis on changes in the frequency and duration of saltwater intrusion events with increasing sea levels. In addition, project leaders enhanced a decision support system (DSS) that is relevant and user-friendly to incorporate planning for future coastal climate change. Of central focus in this study was the ever-present need to address how humans will respond to ongoing and future changes in our environment, particularly under climatic regimes that may not have been felt by present society."
Type	- PRODUCTS: Plans, Assessments, Studies - PRODUCTS: Training and Capacity Building
Sector	- Public Health and Safety - Infrastructure - Natural Ecosystems
Focus Area	- Coasts and Climate Resilience (including sea-level rise) - Climate Impacts on Water Resources
Region	- Regional Or State -- South East
Lead Agencies	Carolinas Integrated Sciences (CISA) and Assessments and South Carolina Sea Grant Consortium