Climate Change Impact Prediction Tool (CCIPT)

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Newport News Shipbuilding is a large supplier of design, refuel and build work at scale for the U.S. Navy and they are a coastal operation. Climate change is a chronic issue that plagues coastal businesses and infrastructure. With the changing climates and more specifically, sea level changes, Newport News Shipbuilding needs to know how it is going to affect their operations in the future.

The purpose of this project is to create a Climate Change Impact Prediction Tool, that focuses specifically on the Newport News area, that it is going to help NNSB make decisions in regards of their future operations. CCIPT is a deployable computer software tool that factors in local data gathered from the Chesapeake Bay region, creates regressive models to predict future climate conditions and outputs it in a form of a GIS Map. The GIS Maps that are generated specifically highlight which areas of NNSB are going to be heavily affected by climate change and rising sea levels.

Keywords: GIS Maps, Newport News Shipbuilding, Climate Change Impact Prediction Tool, Climate Change