

Climate Voyager: A Web-Based Visualization System for Future Climate Projections

Aldridge, Heather¹, Corey Davis¹, and Ryan Boyles²

¹State Climate Office of North Carolina

²DOI Southeast Climate Science Center

The recently developed Climate Voyager product provides an innovative new way to view future climate projections using a three-map layout and time series graph. This product includes a suite of tools designed to aid in assessing climate risks and opportunities, including changes in typical seasonal conditions, occurrences of extreme temperature and precipitation events at a variety of different intensity thresholds, and likely shifts in drought severity and fire risk. Each tool summarizes guidance from a set of 20 downscaled global climate models and includes a historical perspective for that spread of likely future outcomes. The Climate Voyager interface is fully interactive, allowing users to explore both large-scale and local guidance for two emissions scenarios and four future time periods.