

Summary/description for organization table:

The National Environmental Modeling and Analysis Center (NEMAC) is an applied research center at the University of North Carolina Asheville. Our aim is to help society understand the changing world and learn from the space between where science is made and where science is used. We empower our partners by creating data-driven products to ensure a more resilient future for all.

As our world continues to experience unprecedented amounts of climatic and environmental change, we want to ensure that communities and the natural environment are able to withstand and adapt to change. We do this by providing data-driven tools that aid decision-making.

NEMAC was instrumental in co-developing the U.S. Climate Resilience Toolkit with NOAA's Climate Program Office. The Toolkit, designed to help local governments build climate resilience, is the federal flagship website for climate adaptation and resilience work across the nation. The Toolkit is frequently updated with climate resilience case studies, tools, reports, and data products, and we commonly receive requests for expert advice.

Building resilience is an iterative process and the tools that aid decision-makers should evolve along with their needs. User research is fundamental to understanding how users interact with the world and this unique data informs and improves the development of web products and tools. Audience insight gained from usability studies has guided the Toolkit's development.

Developing geospatial mapping products aids our partners in effectively illustrating and communicating change with important decision makers and users. In collaboration with the National Fish and Wildlife Foundation, we have developed a total of nine Coastal Resilience Assessments with a corresponding interactive mapping tool to view, analyze, and download Assessment data. This information is useful for local stakeholders to help inform their decision-making about the potential of resilience-related projects that have dual benefits for both people and wildlife.

We're always looking to share our work and hear from partners who want to connect their expertise with users using innovative technology solutions to advance equitable climate resilience initiatives. To learn more about NEMAC, visit: nemac.unca.edu/