

Developing a Coastal Resiliency Assessment for North Carolina's Cape Fear River Basin

Johnson, Ian¹, Greg Dobson¹, Matt Hutchins¹, Mandy Chesnutt², and Kim Rhodes¹

¹*UNC Asheville's National Environmental Modeling and Analysis Center*

²*National Fish and Wildlife Foundation*

To identify landscapes where community and natural assets are potentially exposed to the damages caused by flood-related impacts and severe storm events due to a changing climate, UNC Asheville's National Environmental and Modeling Analysis Center has partnered with the National Fish and Wildlife Foundation to develop a coastal resiliency assessment for North Carolina's Cape Fear River Basin.

Integrating GIS analysis and spatial modeling with a vulnerability assessment methodology, the resulting products aim to expand the understanding of coastal resiliency needs for areas in the Cape Fear River Basin—and also more broadly in the coastal watersheds of the Southeast Atlantic to inform stakeholders of priority areas where possible projects may be implemented to increase a community's adaptive capacity to impacts caused by severe storms and floods, and to enhance fish and wildlife and their associated habitats.