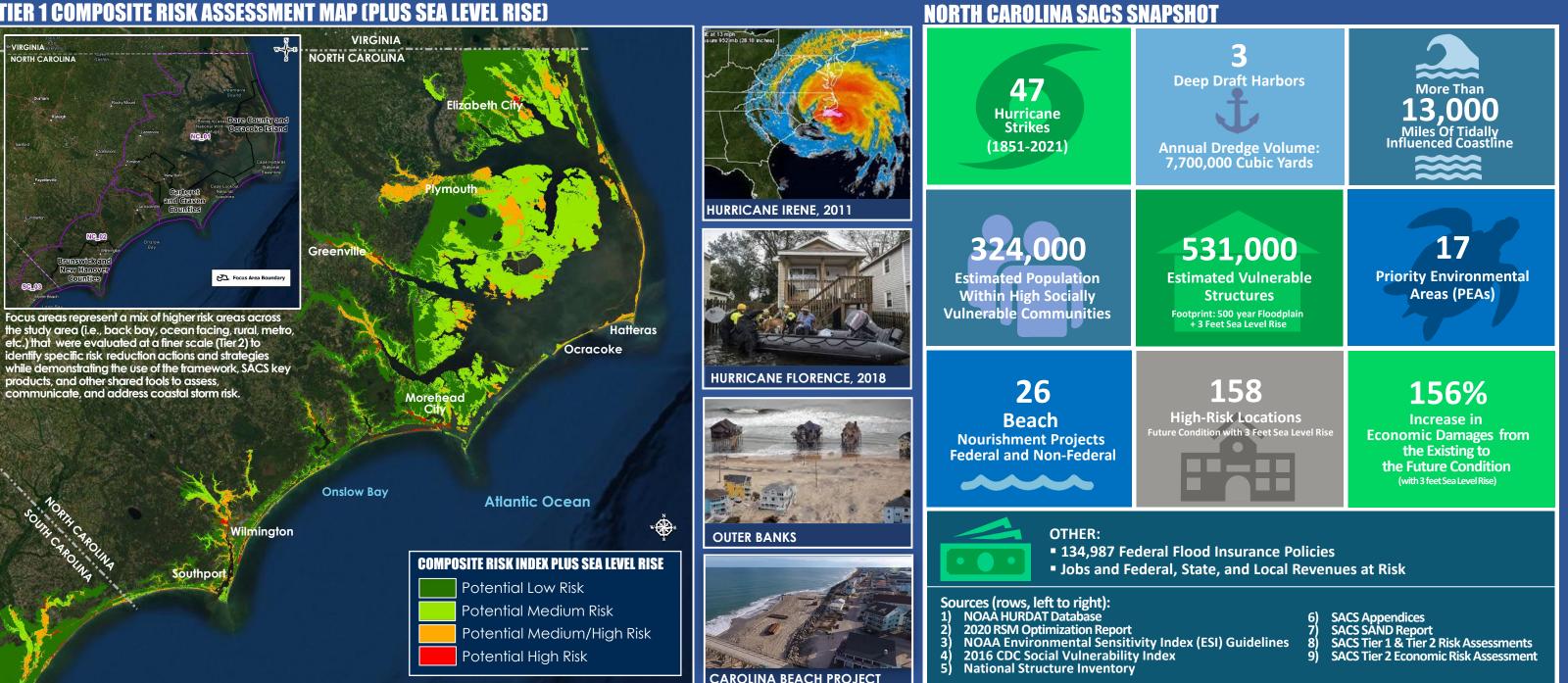
SOUTH ATLANTIC COASTAL STUDY (SACS) | NORTH CAROLINA OVERVIEW Page 1

NORTH CAROLINA SUMMARY

North Carolina has the third highest potential economic risk in the study area. The state has the potential for a significant increase in risk from sea level rise due to many bays and numerous counties along the state's northern coastline. Risk tends to be more dispersed throughout relatively less developed areas. More than 31 percent of the risk is not in a census place and this increases to nearly 35 percent with 3 feet of sea level rise. Nearly two-thirds of the risk in the state is in New Hanover, Carteret, Brunswick, and Dare counties (refer to Focus Area, Map below).

TIER 1 COMPOSITE RISK ASSESSMENT MAP (PLUS SEA LEVEL RISE)



RECOMMENDATIONS

The Coastal Storm Risk Management Framework, SACS key products, and other shared tools were used to assess and communicate risk across the SACS Study Area, and ultimately to address the assessed risk with a series of recommendations. The entire process was implemented with input from stakeholders across federal, state, and local public and private sectors. Recommendations to manage coastal storm risk are grouped into six categories, as illustrated in the icon graphics below, and are further grouped by timeframe : near term (< 5 years), mid term (5 10 years), and long term (> 10 years), as well as by responsible party (multi agency, USACE, and Congress).



Design and Construction Efforts



Recommendations on Previously



Companion Document to South Atlantic Coastal Study (SACS) | Overview



Study Efforts





SOUTH ATLANTIC COASTAL STUDY (SACS) | ADVANCING NORTH CAROLINA RECOMMENDATIONS

RECOMMENDATION CATEGORIES DEFINED

Activities and Areas Warranting Further Analysis: This category includes development of tools, data collection, and multi-agency efforts such as those undertaken by Silver Jackets teams, which bring together multiple state, federal, and sometimes tribal and local agencies to manage risk from flooding and other natural disasters.

Address Barriers Preventing Comprehensive Risk Management: This category advances opportunities to address the multiple barriers preventing comprehensive risk management identified in the SACS report.

Design and Construction Efforts: Examples include recommendations that support design and construction of tentatively selected or recommended plans from USACE CSRM studies conducted separately from SACS.

Recommendations on Previously Authorized USACE Construction Projects: This category includes recommendations that maintain and/or adapt existing USACE CSRM projects to continue providing storm risk management as sea level rises.



6

Regional Sediment Management Practices: This category supports a systems approach for more efficient and effective use of sediments in coastal environments, ranging from agency collaboration on sand source identification to leveraging the beneficial use of dredged material with emerging natural, nature-based features (NNBF).

Study Efforts

Examples include USACE feasibility study recommendations, studies that may be led by other stakeholders, and studies that fall under existing USACE authorities, such as the Continuing Authorities Program (CAP) and Planning Assistance to States (PAS).

NORTH CAROLINA RECOMMENDATIONS

The recommendations to the right include:

REGIONAL RECOMMENDATIONS APPLICABLE TO NORTH CAROLINA

Regional Priority Recommendations may be applicable to the entire region, such as improving understanding and application of compound flooding effects, or they may be location-specific recommendations to address areas with the most significant risk relative to the entire study area.

2 NORTH CAROLINA-SPECIFIC RECOMMENDATIONS

There are seventeen (17) Recommendations specific to North Carolina. Of these, twelve (12) are USACE-led recommendations and five (5) are non-USACE-led recommendations. North Carolina Recommendation are consistent with Key Finding in the SACS Main Report. Additionally, multiple Recommendations support the North Carolina State Resiliency Strategy.

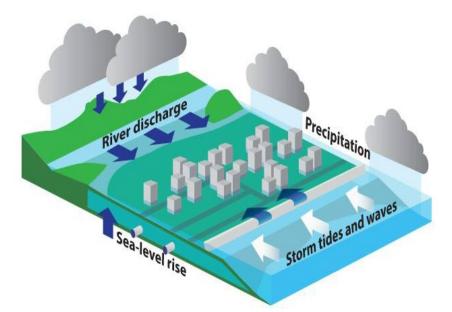


Figure 1. Conceptual illustration of compound flooding

NORTH CAROLINA RECON	IMENDATION	S	Companion Document to South A	liantic Coastal S	alay (SACS) Uverviev
CATEGORY	TIMING*	TYPE**	RECOMMENDATION	ASSIGNED TO	NEXT STEP
Activities/Areas Warranting Further Analysis	Near-Term	SP	FPMS Special Study – CHS Training Workshop.	USACE	Funding
	Mid-Term	SP	Compound Flooding Modeling Effort (National Oceanic and Atmospheric Administration's National Hurricane Center and National Water Center).	Multi-agency	Stakeholder Collaboration
	Mid-Term		Enhanced Building-level Risk Assessments (North Carolina Emergency Management, University of North Carolina - UNCW, USACE).	Multi-agency	Stakeholder Collaboration
	Mid-Term		Community Interest Night - Down East Community (Floodplain Management Services (FPMS) Special Study).	USACE	Stakeholder Collaboration
	Mid-Term		Leverage CHS directly to NCORR Strategic Buyout Program.	USACE	Stakeholder Collaboration
Address Barriers	Near-Term	SP	Masonboro Inlet Jetty project.	USACE	Funding
Design and Construction	Near-Term		Neuse River Basin and Tar-Pamlico Flood Risk Management Feasibility Study Recommendations.	Congress	Funding
	Near-Term		City of New Bern Flood Resiliency Study Recommendations.	Multi-agency	Funding
Regional Sediment Management	Mid-Term		SAD-RSM-RCX coordination with SAW on applicable District projects identified in the 2020 RSM Optimization Update.	USACE	Stakeholder Collaboration
	Long-Term		Offshore Sand Management Strategy Discussions (Bureau of Ocean Energy Management - BOEM, USACE, N.C. Division of Coastal Management - NCDCM).	Multi-agency	Stakeholder Collaboration
Study Efforts	Near-Term	RP, SP	Back Bay Erosion/Marsh Restoration Study (Albemarle-Pamlico Estuary System – APES, USACE).	Multi-agency	Identify Nonfederc Sponsor (USACE Study)
	Near-Term)	SP	Oak Island CSRM feasibility study.	Congress	Funding
	Near-Term	SP	Lola Road - Emergency Streambank and Shoreline Erosion Protection.	USACE	Identify Nonfedera Sponsor (USACE Study)
	Mid-Term	SP	Wanchese (south of Harbor) - Continuing Authority Program (CAP) 204.	USACE	Funding
	Near-Term	SP	Masonboro Island - Beach, Dune and Back-barrier Ecosystem Restoration (USACE).	Congress	New Study Authori
	Mid-Term	SP	NC Battleship Memorial - Continuing Authority Program (CAP) 205.	USACE	Stakeholder Collaboration
	Near-Term	SP	Cape Fear River Basin – Flood Risk Management (FRM)study (USACE).	Congress	New Study Authorit

ADDITIONAL REGIONAL PRIORITY RECOMMENDATIONS APPLICABLE TO ALL STATES

CATEGORY	TIMING*	TYPE**	RECOMMENDATION	ASSIGNED TO	NEXT STEP
Activities/Areas Warranting Further Analysis	Mid-Term	RP	nooding enects on existing and force cousial softmask.		Stakeholder collaboration
	Near-Term	RP	(BOEM) Minerals Management Information System (MMIS) and the National Oceanic and Atmospheric Administration (NOAA) Coastal Change Analysis Program.	Multi-Agency	Funding
	Near-Term		A multi-agency and collaborative approach should be used to develop methods that account for environmental benefits in traditional habitat units and economic quantities (monetized) in order to acknowledge and consider environmental benefits as a factor in deciding on a recommended plan in all future CSRM studies.	Multi-Agency	Guidance/ Policy
	Near-Term	RP	Develop streamlined and vetted methods to quantify and incorporate risk management benefits to Regional Economic Development, Environmental Quality, and Other Social Effects to ensure Federal interest determinations consider benefits other than National Economic Development.	USACE	Guidance/ Policy
Address Barriers	Near-Term	RP	Develop streamlined and vetted methods to quantify and incorporate risk management benefits to Regional Economic Development, Environmental Quality, and Other Social Effects to ensure Federal interest determinations consider benefits other than National Economic Development.	USACE	Guidance/ Policy
Previously Authorized USACE Construction Projects	Near-Term	RP	Pueno Rico ana usvij.	Congress	Funding
	Near-Term	κr	Prioritize extension of federal periods of participation in existing CSRM beach nourishment projects, as appropriate, to continue providing coastal storm risk management and important incidental benefits to coastal systems, communities, and environmental and cultural resources. Options could include prioritizing funding and review of studies on existing CSRM projects, streamlining the study process for existing projects, or providing extensions to the existing periods of federal participation through legislation such as was done by WRDA 2018 (P.L. 115-270) (except Puerto Rico and USVI).	Congress	Funding
	Near-Term	RP	Ongoing and future federal and nonfederal studies recommending beach nourishment should explicitly incorporate adaptive capacity to improve project resilience.	Multi-Agency	Guidance/ Policy
Regional Sediment Management	Near-Term	RP	Promote partnerships and collaboration on beneficial use of dredged material opportunities.	Multi-Agency	Stakeholder collaboration
	Near-Term	RP	Develop regional prioritization of strategies to address sand needs.	USACE	Funding

* Near-Term: < 5 Years / Mid-term: 5 – 10 Years / Long-term: >10 Years / ** RP: Regional Priority / SP: State Priority

Companion Document to South Atlantic Coastal Study (SACS) | Overview