

FLORIDA SUMMARY

Florida accounts for most of the coastal storm risk in the study area due to its large coastline, flat low-lying topography, and significant population and development located near the coast. Risk is primarily concentrated in Southeast Florida, Southwest Florida, the Tampa Bay Region, Northeast Florida, and North Central Florida. The risk assessment identified over 490 high risk places throughout Florida which accounts for nearly one-third of the places being assessed. Florida accounts for approximately 84%-87% of the economic risk for the entire study area with Miami-Dade. Broward, Lee, and Pinellas counties accounting for nearly two-thirds of the economic risk in the state of Florida.

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 Authorized USACE

FLORIDA SACS SNAPSHOT

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

Regional Sediment Management Practices



Study Efforts





SOUTH ATLANTIC COASTAL STUDY (SACS) | ADVANCING FLORIDA RECOMMENDATIONS (SAJ)

RECOMMENDATION CATEGORIES DEFINED

| RECOMM | NENDATION CATEGORIES DEFINED | FLORIDA RECOMMEN | IDATIONS | * Nea | ar-Term: < 5 Years / Mid-term: 5 – 10 Years / Long-term: >10 Years / ** RP: Regional Priority / SP: State Priority | | |
|----------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------|-----------------|---------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|
| | Activities and Areas Warranting Further Analysis: This | CATEGORY | TIMING* | TYPE** | RECOMMENDATION | | |
| | category includes development of tools data collection | | Near-Term | | Develop/conduct the FL Coastal Resilience Workshop (Silver Jackets effort), focused on select SACS key products and other federal agency and state | | |
| | and multi-agency efforts such as those undertaken by | Activities/Areas | Nogr Torm | | insk to locilidie compliance with Horlad laws and statutes. Advance understanding, and implementations of patrixel and patrixe based features (NINPE) to reduce coastal stam risk and provide as k | | |
| .(~) | Silver Jackets teams, which bring together multiple state, | warraning Further Analysis | Nedr-Term | SD. | Advance undestantiating and implementation of natural and naturebased redutes (INNEP) to reduce codsid softmisk and provide co-c | | |
| | federal, and sometimes tribal and local agencies to | | Mid-Term | 3P | Address Codsidi storm lisk with Considerations for ecosystem restoration. | | |
| | manage risk from flooding and other natural disasters. | | Mid-Term | | 31. Johns County, riolida Coastal storm risk Management study (rome vedra beach) reasibility study recommended Plan (perio | | |
| | 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 | Near Term | DD CD | Construction of Recommended From Fick Apagagement (CSPM) Exercibility (Study Recommended Plan (Dending) | | |
| | | | Near Term | | Minimbalae back back by Colaria form his Management (CSM) reasibility study recommended than (pending). | | |
| ΫŸ | | | Near Term | | Niona Reys Color Tealoling Study Recommended Flan | | |
| | | | Near Term | | Collier County CCRM Earchilty Study Recommended Plan (pending). | | |
| | | | Near-Term | RP SP | County County Casker reasonity shows be commended that (pending). | | |
| | 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. | Previously Authorized USACE Construction Projects | Near-Term | KI , 31 | Pavisit scopes and purposes of previously authorized CRM projects to include resilience features | | |
| D 7 | | | NCGI-ICITI | | The addition of resilience features identified in completed EDR begun under the Bioartican Budget Act of 2018 (Public Law 115-12 | | |
| | | | Near-Term | | as part of, a project's next periodic nourishment. | | |
| | | | Near-Term | | Complete EDR efforts to evaluate the potential of existing federal beach nourishment projects to include flexible use of renourishn | | |
| | Recommendations on Previously Authorized USACE | | Mid-Term | SP | Extend the period of federal participation in the existing Duyal County, Florida Share Protection Project | | |
| | Construction Projects: This category includes | | Mid-Term | 51 | Accelerate planning and implementation of the Comprehensive Everylades Restoration Plan (CERP: WRDA 2000) | | |
| 14 L) | recommendations that maintain and/or adapt existing | | Mid-Term | SP | Extend the period of federal participation in the existing Broward County Florida CSRM (Segment II and Segment III) | | |
| | USACE CSRM projects to continue providing storm risk | | Near-Term | 51 | Existence me period of the period sources | | |
| | management as sea level rises. | | Mid-Term | RP | Coordination (implementation of affective beneficial use of pearshore placement for multiple locations (Regional Sediment Managemen | | |
| | 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 emering not used to the sed features (NURE) | | Near-Term | | Develop RSM Guide for Northeast Elorida and East Central Florida | | |
| | | | Near-Term | | Complete a LISACE Planning Assistance to States (PAS) effort for the Panama City/Mexico Beach vicinity | | |
| **** | | Regional Sediment | Mid-Term | SP | Rehabilitate the provide the charmed is the angle of the provide the charmed became the sector of th | | |
| 22.00 | | Management (RSM) | Near-Term | RP SP | Complete a LISACE Planning Assistance to States effort in the vicinity of Pensacola Pass Florida | | |
| | | | Mid-Term | | ESM process up to the name of the process of the second | | |
| | | | Mid-Term | + | Rest practices such as thin layer placement to benefit manaroves should be explored to increase coastal storm resilience in south Florida. | | |
| | | | Mid-Term | RP | Effective utilization of inlet system for beach or nearshore placement | | |
| | Study Efforts | | Long-Term | RP | Investigation of RSM practices to improve resilience to manarove prohitat should be explored to increase resilience to south Florida | | |
| | Examples include USACE feasibility study recommendations, | | Near-Term | | Fund/conduct Cape Canaveral Wastewater Treatment Plant Continuing Authorities Program (CAP) Section 14 | | |
| | studies that may be led by other stakeholders, and studies | | Mid-Term | RP | Brevard County, Elorida Back Bay Feasibility Study (CSRM). | | |
| | that fall under existing USACE authorities, such as the | | Long-Term | RP. SP | Volusia County, Florida Back Bay Feasibility Study (CSRM). | | |
| | Continuing Authorities Program (CAP) and Planning | | Long-Term | , | Martin County, Florida Back Bay Feasibility Study (CSRM). | | |
| | Assistance to States (PAS). | | Near-Term | | Volusia County, Florida Feasibility Study (CSRM). | | |
| FLODIDA | | | Long-Term | | St. Lucie County, Florida, Back Bay Feasibility Study (CSRM). | | |
| FLUKIDA | regummenda i iunā | | Near-Term | SP | St. Augustine, Florida Back Bay Feasibility Study (CSRM). | | |
| The rec | ommendations to the right include: | | Near-Term | 1 | Palatka Emergency Streambank Restoration. | | |
| | 3 | | Mid-Term | RP | Duval County, Florida Back Bay Feasibility Study (CSRM). | | |
| E RE | GIONAL RECOMMENDATIONS APPLICABLE TO FLORIDA | | Long-Term | | Nassau County, Florida Back Bay CSRM. | | |
| | | | Near-Term | | Deer Point Dam, Florida Feasibility Study (CSRM). | | |
| Regiono | al Priority Recommendations may be applicable to the | | Mid-Term | RP | Pensacola, Fort Walton Beach, and Destin CSRM. | | |
| entire re | egion, such as improving understanding and application | | Mid-Term | RP | Assess critical infrastructure in the Pensacola, Fort Walton Beach, and Destin Focus Area | | |
| of compound flooding effects and methods for incorporating all | | | Mid-Term | RP | New Continuing Authorities Proaram or General Investigation Flood Risk Management study for the City of Milton, Florida to address coast | | |
| four ac | counts into project recommended plans, or they may be a-specific recommendations to address areas in Florida | Study Efforts | Mid-Term | RP, SP | A Planning Assistance to States (PAS) effort including hydrologic and hydraulic modeling, potential economic and environmental monitoring evaluation. | | |
| with the | most significant risk relative to the entire study area. | | Near-Term | RP, SP | A comprehensive review study of the Central and Southern Florida (C&SF) Project is needed to enhance the resilience of all salinit components of the system while integrating resilient measures to manage coastal risk in areas seaward of the existing system. | | |
| FI | ORIDA-SPECIFIC RECOMMENDATIONS | | Mid-Term | | General Reevaluation Report Palm Beach County, Florida Shore Protection Proiect Juno Beach Seament. | | |
| 9 | | | Mid-Term | RP | Follow-on study for additional high-risk locations not able to be addressed in the USACE Migmi-Dade County Florida Back Bay CS | | |
| Florida | Priority Recommendations emphasize construction of | | Mid-Term | RP, SP | Broward County, Florida Back Bay System CSRM. | | |
| ongoing | g CSRM Feasibility Study recommended plans and | | Near-Term | | Key Biscayne Feasibility Study (CSRM). | | |

Flo ong continuation of existing CSRM projects with recommendations for improvement to include incorporation of resiliency features such as dunes, quantification of environmental benefits, and regional sediment management opportunities. Florida Priority recommendations also include identification of back bay areas expected to see a significant increase in coastal storm risk as a result of sea level rise that warrant follow-on feasibility studies.



ADDITIONAL REGIONAL PRIORITY RECOMMENDATIONS APPLICABLE TO ALL STATES

ear-Term

Long-Term

Long-Term

Mid-Term

Mid-Term

Long-Term

lear-Term

Lona-Term RP

RP. SP

RΡ

Mid-Term

RP, SP Charlotte County, Florida Feasibility Study (CSRM).

Lee County, Florida Back Bay Feasibility Study (CSRM)

illsborough County, Florida Feasibility (CSRM).

Pinellas County, Florida Back Bay CSRM Feasibility Manatee County, Florida Back Bay Feasibility Study (CSRM).

St. Lucie County, Florida Shore Protection Projec

Pasco County, Florida Feasibility Study (CSRM),

| CATEGORY | TIMING* | TYPE** | RECOMMENDATION | ASSIGNED TO | NEXT STEP |
|---------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------|---------------------------|
| | Mid-Term RP Advance ongoing interagency work to improve understanding and application of compound flooding effects on existing and future coastal storm risk. | | Multi-Agency | Stakeholder Collaboration | |
| Activities/Areas Warranting Further Analysis | Near-Term | RP | SACS key products should be maintained and updated by USACE and utilized, as applicable, by USACE and stakeholders to support consistent, efficient, and effective analyses. Additionally, other agency-led data and tools should be supported to facilitate use of consistent, up-to-date information for decision making. Examples of such agency-led efforts include the Bureau of Ocean Energy Management (BOEM) Minerals Management Information System (MMIS) and the National Oceanic and Atmospheric Administration (NOAA) Coastal Change Analysis Program. | | Funding |
| 7 thorysb | Near-Term | RP | 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 |
| Address Barriers | rriers 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 | |
| | Near-Term | RP | Prioritize funding for renourishment of existing federal CSRM beach nourishment projects (except Puerto Rico and USVI). | Congress | Funding |
| Previously Authorized USACE Construction Projects | Near-Term | -Term RP 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 | Near-Term | RP | Promote partnerships and collaboration on beneficial use of dredged material opportunities. | Multi-Agency | Stakeholder Collaboration |
| Management | Near-Term | RP | Develop regional prioritization of strategies to address sand needs. | USACE | Funding |

Sarasota County Longboat Key Shore Protection Project General Re-evaluation Report

Follow-on study for additional high-risk locations not able to be addressed in the USACE Collier County, Florida CSRM Feasibility

Companion Document to South Atlantic Coastal Study (SACS) | Overview Page 2

| | ASSIGNED TO | NEXT STEP |
|-----------------------------------------|--------------|-------------------------------------------|
| tools to evaluate/address coastal storm | ASSIGNED TO | |
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| 23) should be considered prior to, or | USACE | Funding |
| ment material to improve adaptive | USACE | Stakeholder Collaboration |
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| t - Regional Center of Expertise). | USACE | Stakeholder Collaboration |
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