

St. Augustine, Florida Back Bay Coastal Storm Risk Management (CSRM) Feasibility Study

MONTHLY PROGRESS MEETING JANUARY 2025

**PLEASE MUTE YOUR PHONE AND COMPUTER
TO AVOID BACKGROUND DISRUPTIONS.**

WE WILL START PROMPTLY AT 1:05

Presented by:

Jason Harrah, Senior Project Manager (Jacksonville District, USACE)

Marty Durkin, Planning Technical Lead (Jacksonville District, USACE)

Jessica Beach, Chief Resiliency Officer (City of St. Augustine)



CITY OF
ST. AUGUSTINE.
EST. 1565

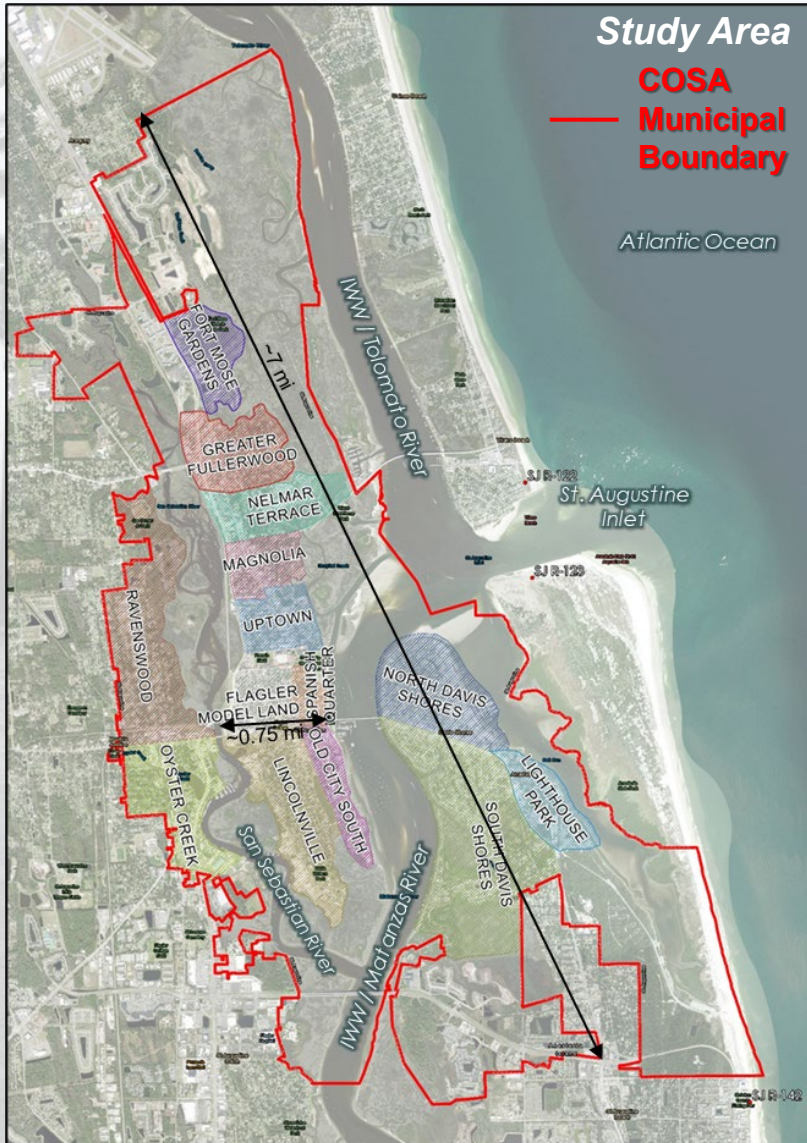


AGENDA



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- Opening Remarks
- Study Overview, Schedule, & Budget
- Study Analysis To Date
- Schedule Updates (90-Day Window)
- Discipline Specific Study Updates
- Upcoming Public Engagements
- Sponsor Remarks
- Agency Questions/Comments
- Public Comments
- Closing Remarks



Study Authority: House Resolution 2646 (June 21, 2000): St. Johns County, Florida

Resolved by the Committee on Transportation and Infrastructure of the United States House of Representatives, That in accordance with Section 110 of the River and Harbor Act of 1962, the Secretary of the Army, acting through the Chief of Engineers, is **requested to survey the shores of St. Johns County, Florida**, with particular reference to the advisability of providing beach erosion control works in the area north of St. Augustine Inlet, the shoreline in the vicinity of Matanzas Inlet, and adjacent shorelines, as may be necessary in the interest of **hurricane protection, storm damage reduction, beach erosion control, and other related purposes.**

Non-Federal Sponsor: City of St. Augustine (COSA)

POC: Jessica Beach, P.E., Chief Resilience Officer, jbeach@citystaug.com

Study Area

- Entire COSA Municipal Boundary
- 17 Distinct Neighborhoods
- 3 Separate Land Masses
- Interconnected Water Bodies

Objectives to be achieved within the City of St. Augustine over a 50-year period of analysis from 2035-2085 are to...

1. Manage risk of coastal flood damages.
2. Manage risk to health and life-safety.
3. Manage risk to cultural and natural resources.
4. Manage flooding impacts to the local economy.



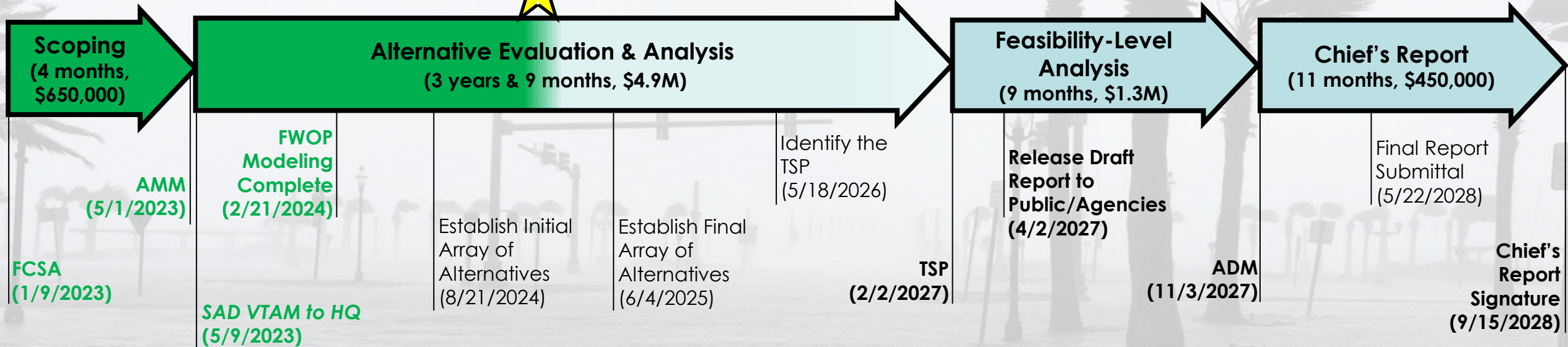
STUDY OVERVIEW

★ We Are Here



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Schedule & Budget Overview: **5 years & 9 months, \$7.3M, Cost Share ~50% Fed, 50% Sponsor**



Key Components of the Study Scope:

- Entire City of St. Augustine (COSA)
- Compound Flooding
- Full Array of Alternatives & Comprehensive Benefits
- Environmental Impact Statement (EIS) Likely
- Robust Community Outreach

Acronyms

FCSA = Feasibility Cost Share Agreement
AMM = Alternatives Milestone Meeting
FWOP = Future Without Project
SAD = South Atlantic Division
VTAM = Vertical Team Alignment Memo
HQ = Headquarters
TSP = Tentatively Selected Plan
ADM = Agency Decision Milestone

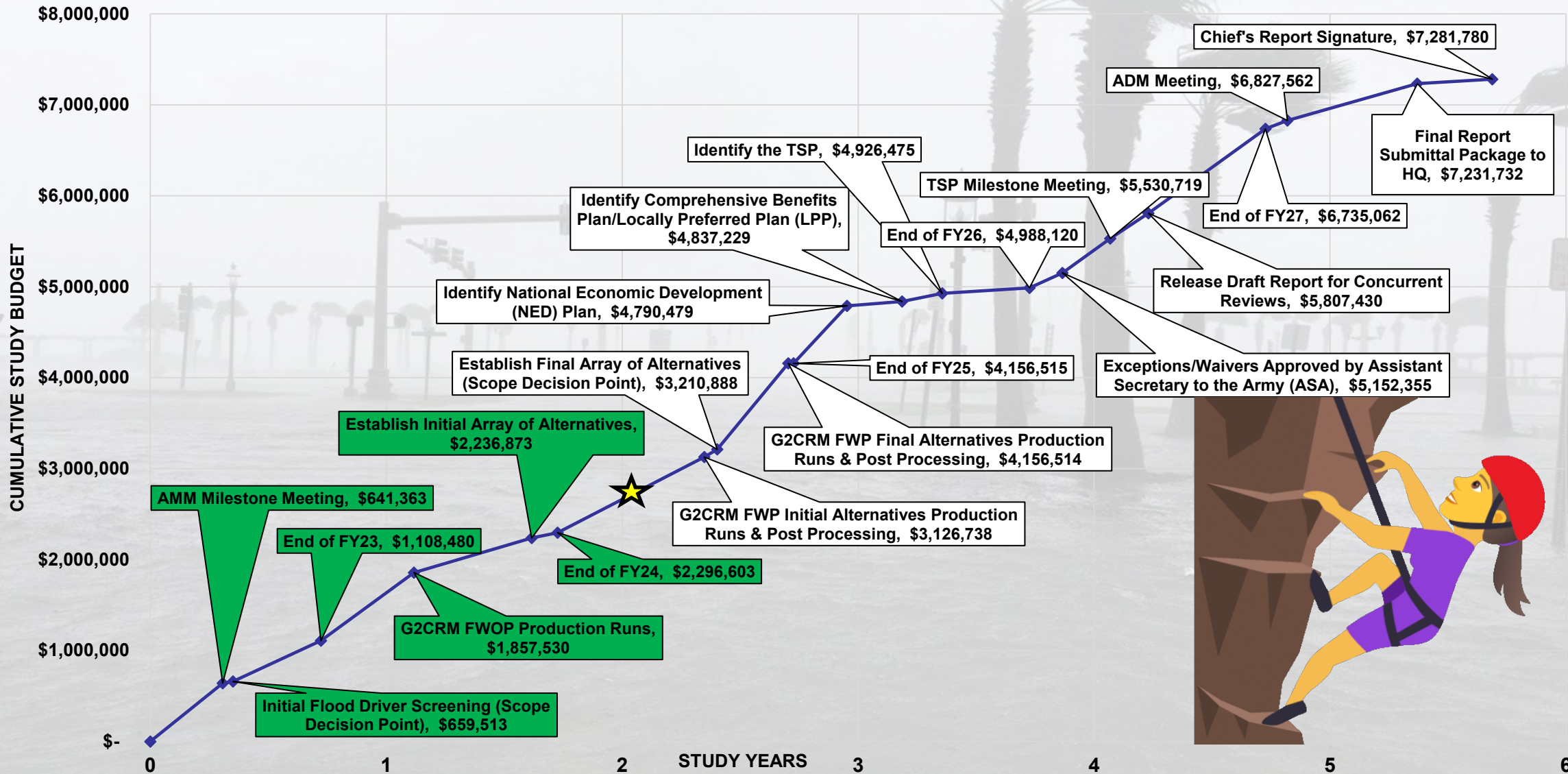
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STUDY SCHEDULE & BUDGET



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RECAP OF STUDY ANALYSIS TO DATE



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6-Step Planning Process

Completed

Ongoing

Next Step

1 IDENTIFY PROBLEMS AND OPPORTUNITIES

2 INVENTORY AND FORECAST CONDITIONS

3 FORMULATE ALTERNATIVE PLANS

4 EVALUATE ALTERNATIVE PLANS

5 COMPARE ALTERNATIVE PLANS

6 SELECT RECOMMENDED PLAN

Established Study Objectives & Benefits Metrics
Compound Flooding Driver Analysis.

Data collection and analysis associated with the key resources throughout the COSA.
Modeling and analysis to forecast future without project conditions. By 2085 under the USACE intermediate sea level change, on average, the COSA could see...

- ▶ Over \$4 Billion (present value) in Damage to Structures, Content, & Vehicles.
- ▶ Potential Life Loss.
- ▶ Over 1,000 Residential Displacements.
- ▶ 80 Nuisance Flood Days Per Year.
- ▶ Over 100 Instances of Damage to Critical Infrastructure.
- ▶ Over 600 Acres of Saltwater Marsh Lost.
- ▶ Damage to 3,700 Historical Structures.
- ▶ Over \$400 Million in Lost Tourism Expenditures.

Evaluation of initial alternative features is ongoing...

- ▶ Walls & Levees
- ▶ Surge Barrier Systems
- ▶ Nonstructural Measures
- ▶ Nature Based Solutions

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PATH FORWARD

KEY SCHEDULE ACTIVITIES - LOOK AHEAD



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Key Activities	Finish Date
FCSA Executed	1/9/2023
AMM Milestone Meeting	5/1/2023
Initial Flood Driver Screening (Scope Decision Point)	5/17/2023
End of FY23	9/30/2023
G2CRM FWOP Production Runs	2/21/2024
Establish Initial Array of Alternatives	8/21/2024
End of FY24	9/30/2024
G2CRM FWP Initial Alternatives Production Runs & Post Processing	5/15/2025
Establish Final Array of Alternatives (Scope Decision Point)	6/4/2025
G2CRM FWP Final Alternatives Production Runs & Post Processing	9/22/2025
End of FY25	9/30/2025
Identify National Economic Development (NED) Plan	12/22/2025
Identify Comprehensive Benefits Plan/Locally Preferred Plan (LPP)	3/17/2026
Identify the TSP	5/18/2026
End of FY26	9/30/2026
Exceptions/Waivers Approved by Assistant Secretary to the Army (ASA)	11/20/2026
TSP Milestone Meeting	2/2/2027
Release Draft Report for Concurrent Reviews	4/2/2027
End of FY27	9/30/2027
ADM Meeting	11/3/2027
Final Report Submittal Package to HQ	5/22/2028
Chief's Report Signature	9/15/2028

Complete

Ongoing

Key Sub Tasks...

- ▶ Construction Cost Estimates
- ▶ Benefit Comparison
- ▶ With Project Flooding Analysis



UPCOMING PUBLIC ENGAGEMENT



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Dates	Events
January 16 th , 2025 @ 1:00pm	Monthly Webinar
February 20 th , 2025 @ 1:00pm	Monthly Webinar
March 20 th , 2025 @ 1:00pm	Monthly Webinar
April 17 th , 2025 @ 1:00pm	Monthly Webinar



DISCIPLINE SPECIFIC UPDATES/ACTIONS



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- **Planning Technical Lead:** Marty Durkin
- **Engineering Technical Lead:** Patrick Snyder
- **Economics Lead:** Vongmony Var
- **Environmental Lead:** Katie Lebow
- **Cultural Resources Lead:** Zuzana Chovanec
- **Real Estate Lead:** Chris Bukolt
- **Office of Counsel:** Katie Gwin
- **Landscape Architecture Lead:** Sabrina Collins



PUBLIC OUTREACH (STUDY WEBSITE)



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St. Augustine Back Bay Study - W x

experience.arcgis.com/experience/06bb9c98d9184bd9a374a244f6d27474/

_USACE Finance Mapping News USACE Google

St. Augustine, FL Back Bay Coastal Study

Engineering Economics Environmental Cultural Resources Real Estate About

U.S. Army Corps of Engineers - Jacksonville District Main Website

Welcome to the St. Augustine, Florida Back Bay Coastal Storm Risk Management (CSRM) Web Experience Homepage

Upcoming Events: Our Next Public Meeting will be held on October 4th, 2023 at 6:30pm. < Prev Next >

This Web Experience Homepage is a visual representation of the ongoing St. Augustine CSRM Study. During the study, this page will be updated with the latest information to include meeting agendas, minutes, graphics, etc. to keep the public and agencies engaged as partners in developing a long term solution to flooding within the City of St. Augustine.

U.S. ARMY US Army Corps of Engineers Jacksonville District

ST. AUGUSTINE

Page Contents

- Study Overview
- Plan Formulation
- Monthly Planning Meetings
- Interactive Map
- Public Meetings/Workshops
- News, Social Media, Helpful Links
- Scope, Schedule, and Budget
- Contact Information

For better viewing experience, please use Google Chrome or Mozilla Firefox browsers. Also, please use a PC to interact with the web experience homepage.

ArcGIS Experience Builder technology animates the complicated concepts considered by the design team by allowing users to:

- See the improvements and reduced flooding impacts from this study in the City of St. Augustine (COSA)
- Experience the various alternatives and recommended plan with detailed artistic graphics and renderings
- Examine Engineering, Economic, Cultural, and Key Environmental Features

STUDY OVERVIEW

Study Authority

This study is being conducted under the authority from the June 21, 2000, House Resolution 2646 that granted authority for a Coastal Storm Risk Management (CSRM) study in St. Johns County, Florida:
"Resolved by the Committee on Transportation and Infrastructure of the United States House



<https://experience.arcgis.com/experience/06bb9c98d9184bd9a374a244f6d27474/>

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PUBLIC OUTREACH (SPONSOR SITES)



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Submit Public Comment

US Army Corps of Engineers Jacksonville
District: St. Augustine Florida Back Bay
Feasibility Study

Scoping Meeting and Comment Period
Notice Letter for USACE St. Augustine
Back Bay Coastal Storm Risk Management
(CSRM) Feasibility Study (PDF)

[Home](#) > [Government](#) > [Resiliency](#) > [Planning/Studies](#) > Back Bay Feasibility Study with the Army Corps of Engineers

Back Bay Feasibility Study with the Army Corps of Engineers

The objectives of the study include (1) reduce flooding caused by coastal storms, extreme high tides, and future projected sea level rise in the study area; (2) explore opportunities to increase community resiliency from future coastal storms. Issues that are anticipated include concern for aesthetics, cultural resources, recreation, socioeconomic, environmental justice, wetlands, fish and wildlife resources, threatened and endangered species, and water quality. CSRM measures to be evaluated may include a combination of structural (i.e., tidal gates, seawalls, revetments, levees, drainage improvements, building elevation, etc.), non-structural (i.e., relocation, buyouts, etc.), and natural and nature-based features (i.e., living shorelines, vegetated features, oyster reefs, and maritime forests). Public Comments will be accepted throughout the life of the study.

Back Bay Signing Ceremony January 9th, 2023



Submit Public Comment



Email: BackBay@citystaug.com



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of Engineers**®
Jacksonville District

[Jacksonville District Website](#)

[Monthly Project Delivery Team \(PDT\) Meetings](#)

Social Media

<https://www.instagram.com/citystaug/>
<https://www.facebook.com/citystaug>
<https://twitter.com/citystaug>



CLOSING REMARKS/QUESTIONS



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- **Sponsor Remarks**
- **Federal Agency Questions/Comments**
- **State Agency Questions/Comments**
- **Local Agency Questions/Comments**
- **Public Comments**