An aerial photograph of a sandy beach with several people sitting on towels or blankets. Many of them are holding blue beach umbrellas. The ocean waves are visible in the foreground, crashing onto the shore.

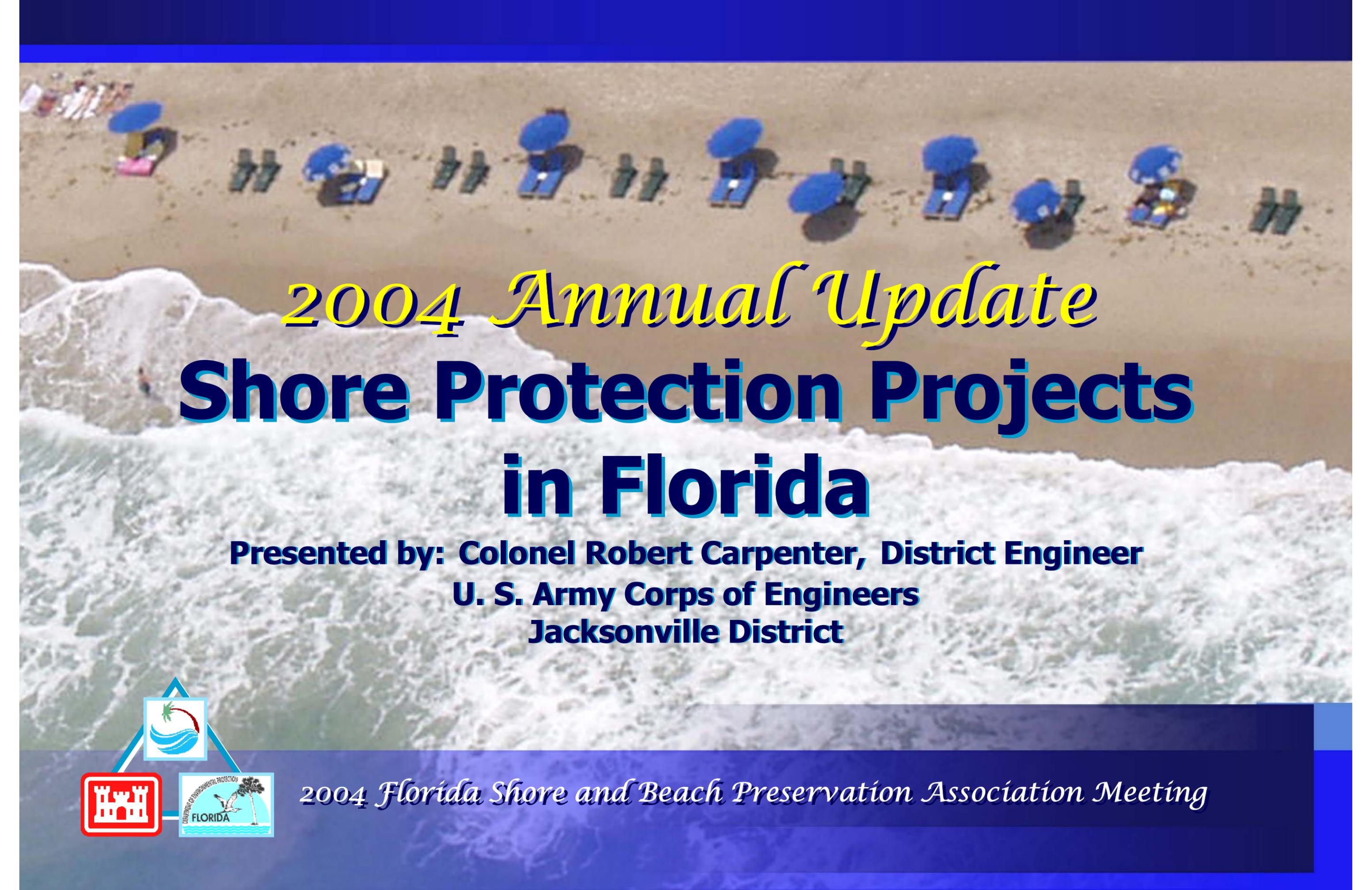
2004 Annual Update **Shore Protection Projects in Florida**

Presented by: Colonel Robert Carpenter, District Engineer
U. S. Army Corps of Engineers
Jacksonville District



2004 Florida Shore and Beach Preservation Association Meeting

TE-10-69

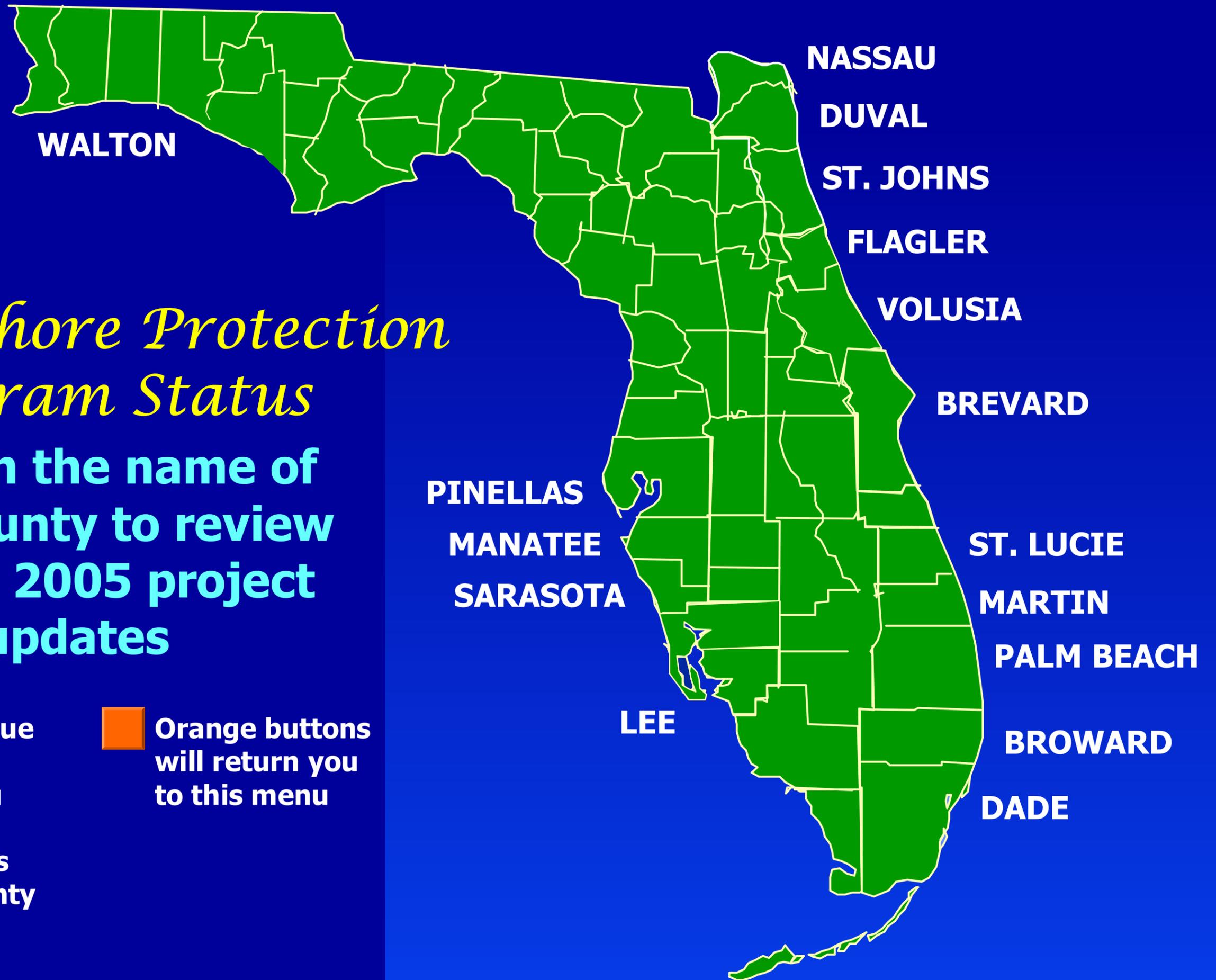


2004 Annual Update
Shore Protection Projects
in Florida

Presented by: Colonel Robert Carpenter, District Engineer
U. S. Army Corps of Engineers
Jacksonville District



2004 Florida Shore and Beach Preservation Association Meeting



WALTON

NASSAU

DUVAL

ST. JOHNS

FLAGLER

VOLUSIA

BREVARD

PINELLAS

MANATEE

SARASOTA

LEE

ST. LUCIE

MARTIN

PALM BEACH

BROWARD

DADE

Federal Shore Protection Program Status

**Click on the name of
your county to review
2003 – 2005 project
updates**

 **Green and blue
buttons will
navigate you
through the
project slides
for your county**

 **Orange buttons
will return you
to this menu**

GEORGIA

FERNANDINA INLET

FERNANDINA BEACH

AMELIA ISLAND

Atlantic Ocean

NASSAU SOUND

Nassau County



Fernandina Inlet Navigation Project



2003: 40,000 cy of maintenance material placed on beach

2004: 225,000 cy of maintenance material placed on beach in Spring

2005: 225,000 cy of maintenance material anticipated to be placed on beach

Forward



Home



GEORGIA

FERNANDINA INLET

FERNANDINA BEACH

AMELIA ISLAND

Atlantic Ocean

NASSAU SOUND



Nassau County

Nassau County Shore Protection Project (SPP)



2004: Complete General Re-evaluation Report (GRR) addressing HQ comments for the 4.3 mile SPP

2005: GRR approval anticipated followed by initiation of plans & specs

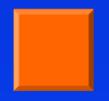
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GEORGIA

FERNANDINA INLET

FERNANDINA BEACH

AMELIA ISLAND

NASSAU SOUND

Atlantic Ocean



Nassau County

AIWW Navigation Project (Nassau Sound)



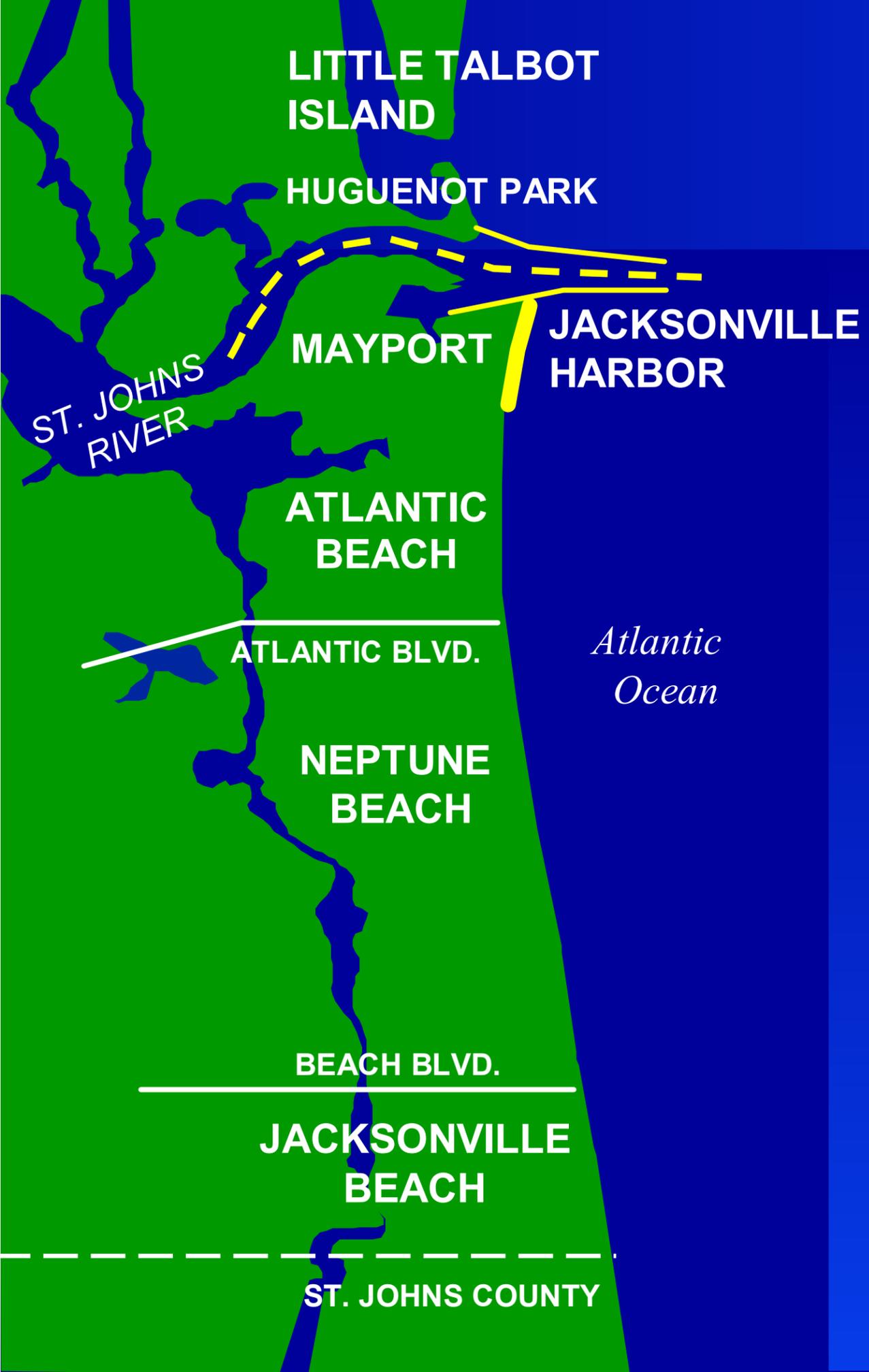
2005: Initiate plans & specs for 2005 maintenance dredging; approximately 500,000 cy anticipated to be placed on beach

Previous



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Duval County



2003: 200,000 cy placed on Jacksonville Beach as part of harbor deepening

2004: Initiate plans & specs for FY05 maintenance dredging event

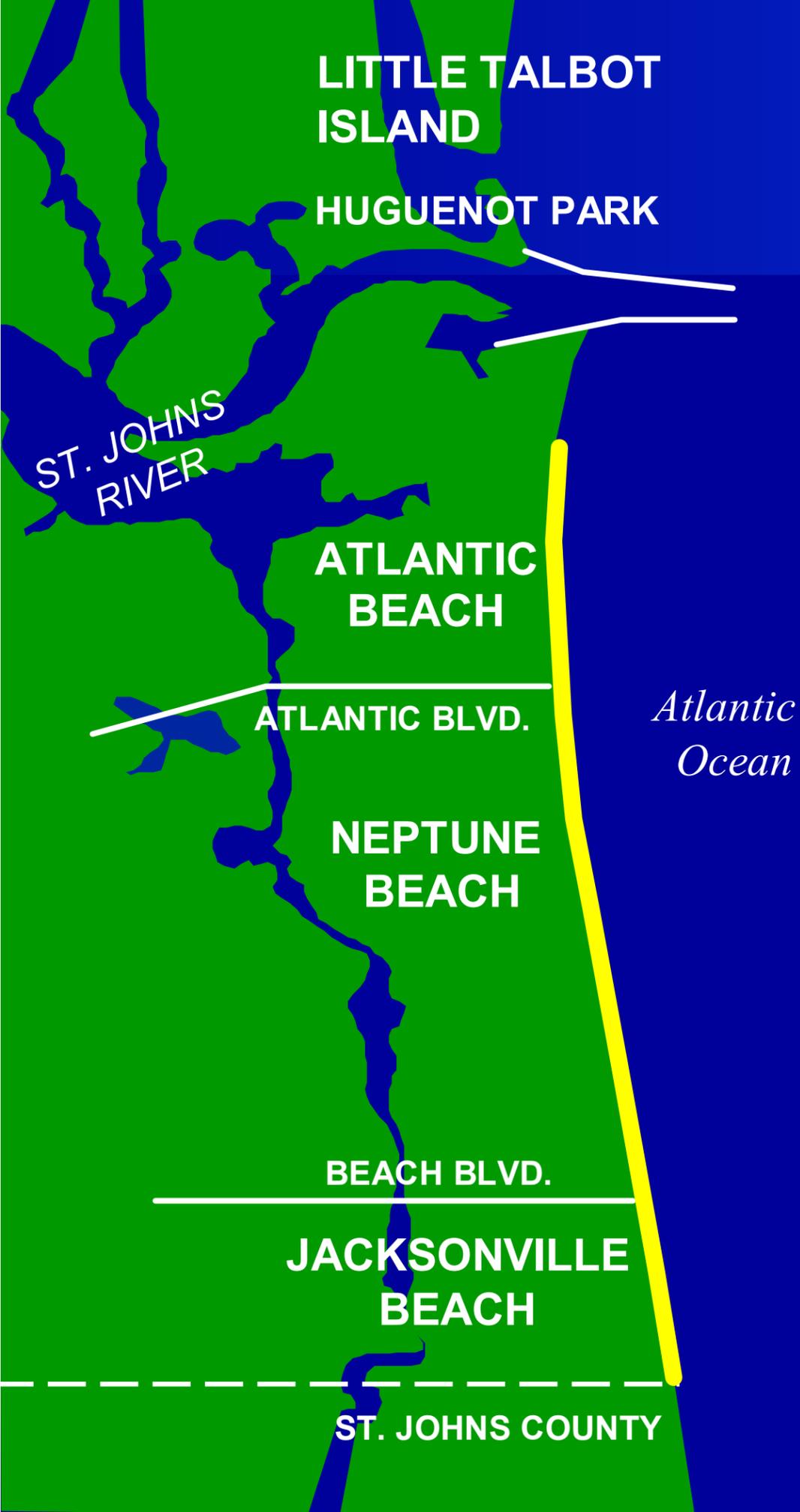
2005: Estimated 200,000 cy placement at Mayport as part of maintenance dredging

Forward



Home





Duval County



Duval County Shore Protection Project (SPP)



- 2003:** Jacksonville Beach renourished with 200,000 cy; initiated investigation of new borrow source
- 2004:** Investigation of new borrow source completed and plans & specs initiated
- 2005:** Plans & specs completion anticipated and upon funding, initiate a renourishment contract

Previous



Home



St. Johns County



St. Johns County Beaches Study



VILANO BEACH

ST. AUGUSTINE
INLET

*Atlantic
Ocean*

MATANZAS
INLET

SUMMER
HAVEN

FLAGLER COUNTY

2003: Funding received to initiate reconnaissance study

2004: Recon was approved and feasibility study initiated

2005: Continue feasibility study contingent on funding

Forward



Home



St. Johns County



Before



After

St. Johns County Shore Protection Project (SPP) - St. Augustine Beach

2003: Post - construction monitoring

2004: Post - construction monitoring

2005: Initiate plans & specs for FY06 construction

Previous



Home



ST. JOHNS COUNTY
MARINELAND

PALM COAST

Atlantic Ocean

BEVERLY BEACH

FLAGLER BEACH

VOLUSIA COUNTY

Flagler County



Flagler County Study



2003: Funding received to initiate recon study

2004: Recon report approved, feasibility study initiated

2005: Contingent on funding, continue feasibility study

Home



FLAGLER
COUNTY

DAYTONA BEACH

PONCE DE
LEON INLET

NEW
SMYRNA
BEACH

*Atlantic
Ocean*

BREVARD COUNTY

Volusia County



Volusia County Study



2003: Funding received to initiate recon study

2004: Recon study completed
and submitted for approval

2005: Upon approval of favorable recon
report, feasibility study to be initiated

Forward



Home



FLAGLER
COUNTY

Volusia County



DAYTONA BEACH

PONCE DE
LEON INLET

NEW
SMYRNA
BEACH

*Atlantic
Ocean*

BREVARD COUNTY

IWW Navigation Project (Ponce de Leon)



2003: Plans & specs for next maintenance dredging & WQC acquisition initiated

2004: Preparation of plans & specs and WQC acquisition ongoing

2005: Maintenance dredging with nearshore placement of materials in nearshore off of New Smyrna Beach anticipated

Previous



Home



VOLUSIA COUNTY

CAPE
CANAVERAL

*Atlantic
Ocean*

MELBOURNE

INDIALANTIC

INDIAN RIVER COUNTY

Brevard County



Canaveral Harbor Sand Bypass



2003: LRR completed, plans & specs underway for north jetty sand tightening

2004: North jetty sand tightening & plans and specs completed and open bids

2005: Award construction contract for north jetty and plans & specs underway for next periodic sand bypassing

Forward



Home



VOLUSIA COUNTY

CAPE
CANAVERAL

MELBOURNE

INDIALANTIC

INDIAN RIVER COUNTY

*Atlantic
Ocean*

NORTH REACH

MID REACH

SOUTH REACH

Brevard County



Brevard County Shore Protection Project (SPP)



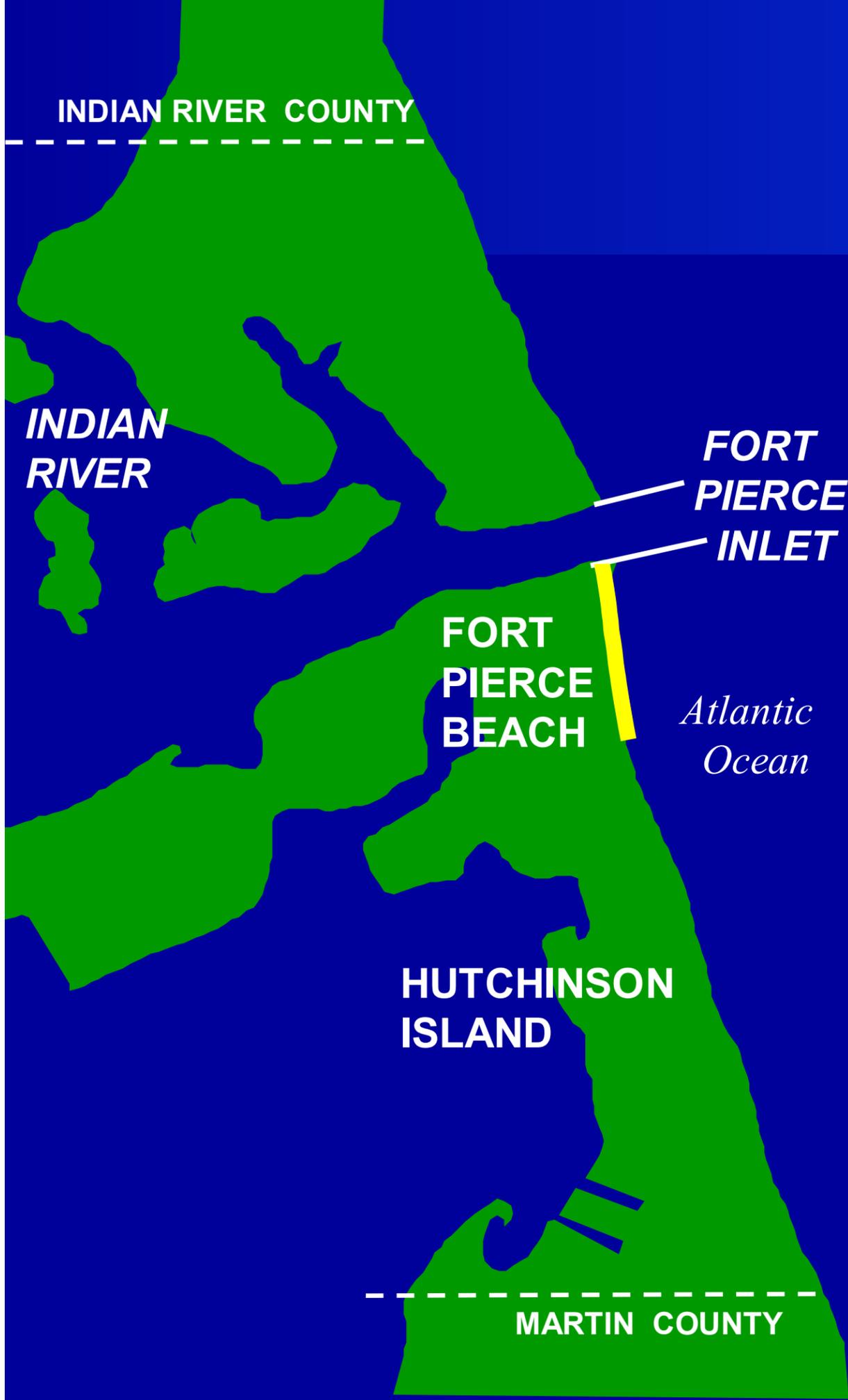
- 2003:** Completed south reach construction (1,600,000 cy) ; initiated General Re-evaluation Report (GRR) for mid-reach
- 2004:** Initiated GRR for mid-reach
- 2005:** Continue preparation of GRR for mid-reach

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Home





St. Lucie County



Ft. Pierce Beach Shore Protection Project (SPP)

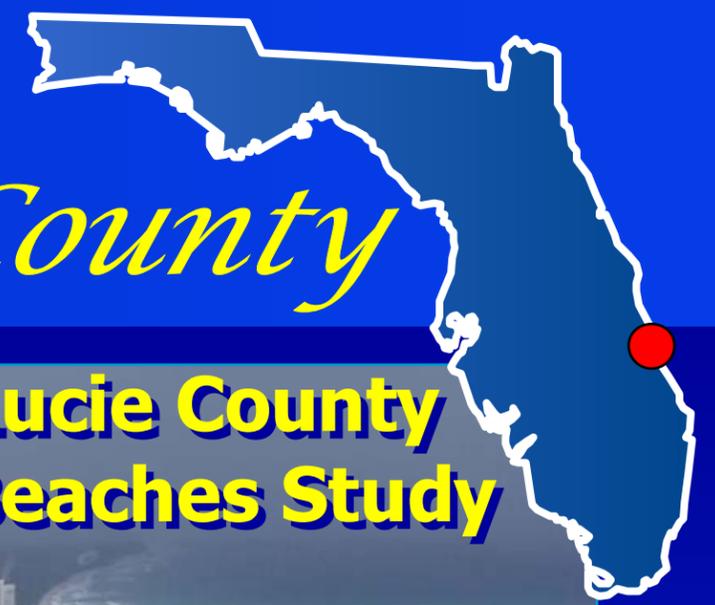
- 2003:** Preparation of General Re-evaluation Report (GRR) for 1.3 mile SPP; renourished SPP with 325,000 cy; constructed 5 acres of artificial reef
- 2004:** Renourishment of SPP with 400,000 cy; preparation of GRR ongoing; complete artificial reef construction
- 2005:** Approval of GRR; renourishment of beach pending receipt of funding

Forward

 Home




St. Lucie County



St. Lucie County Beaches Study



2003: Reconnaissance study approved

2004: Feasibility phase initiated

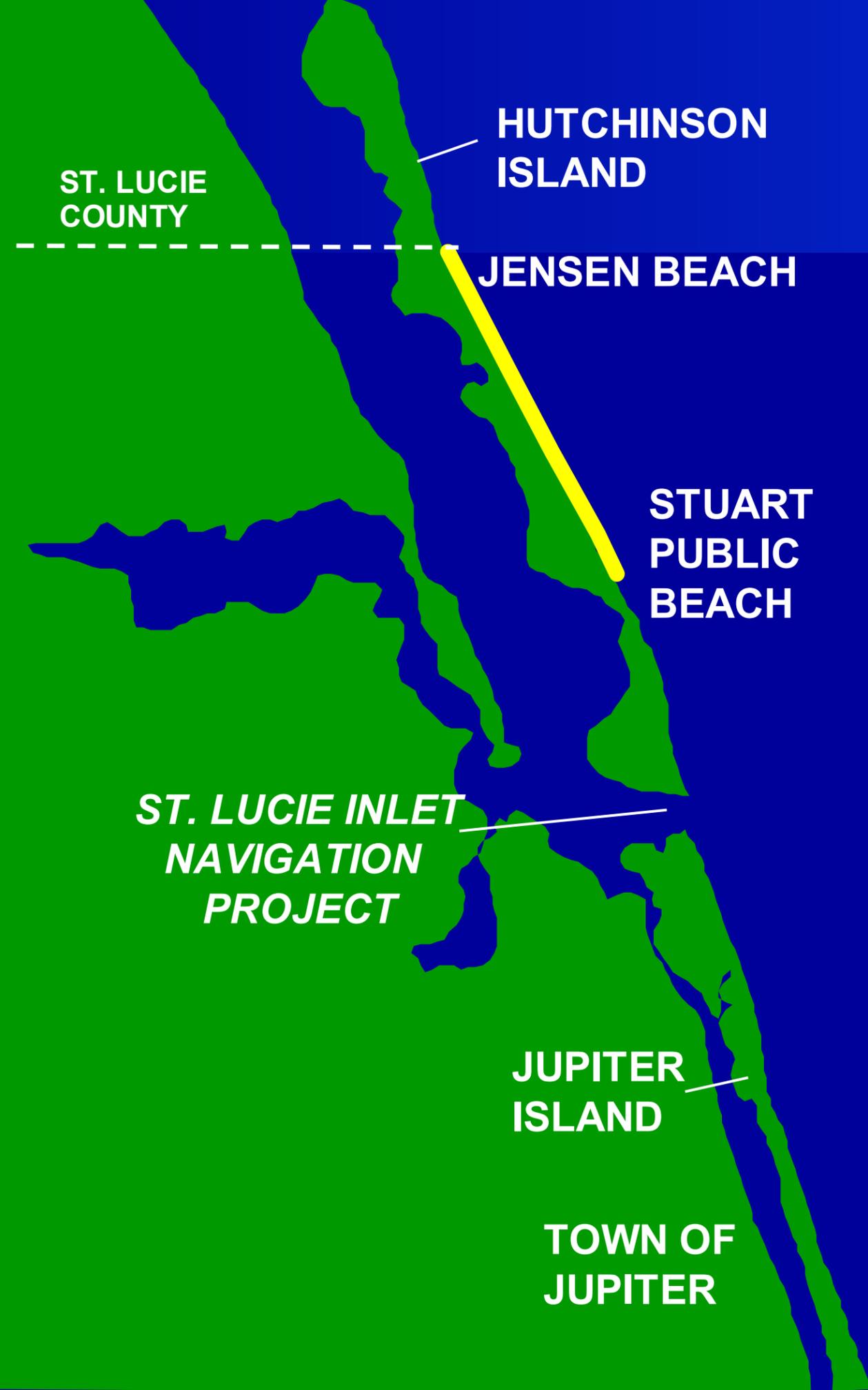
2005: Feasibility phase underway

Previous



Home





Martin County



Martin County Shore Protection Project (SPP)



2003: Design efforts initiated to renourish northern half of SPP

2004: Design efforts for renourishment ongoing

2005: Renourishment of four mile SPP anticipated, pending receipt of funds

Forward

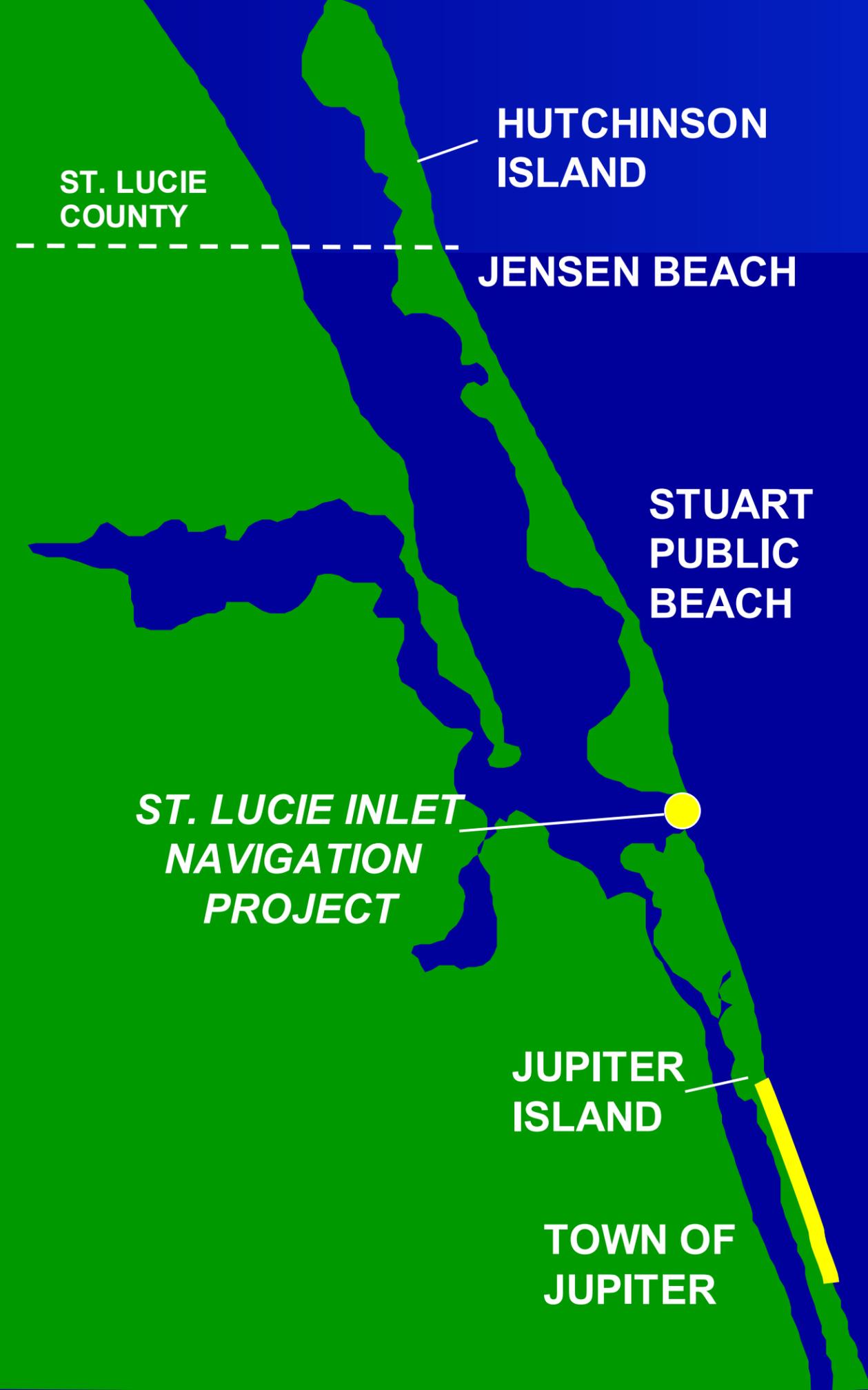


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Martin County



St. Lucie Inlet Navigation Project

2005: Maintenance dredging event to be conducted with nearshore placement off Town of Jupiter, pending receipt of funds

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Home



MARTIN COUNTY

JUPITER

JUPITER INLET

TOWN OF PALM BEACH

LAKE WORTH INLET
PALM BEACH HARBOR

WEST PALM BEACH

Atlantic Ocean

SOUTH LAKE WORTH INLET

BOCA RATON

BOCA RATON INLET

BROWARD COUNTY

Palm Beach County

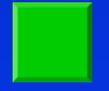


IWW Navigation Project (Jupiter Inlet)

2003: Completed plans & specs for next maintenance dredging

2004: Maintenance dredging of IWW conducted with placement of approximately 150,000 cy on beaches south of inlet

Forward



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MARTIN COUNTY

JUPITER

TOWN OF
PALM BEACH

WEST
PALM
BEACH

BOCA
RATON

BROWARD COUNTY

JUPITER INLET

LAKE WORTH INLET
PALM BEACH HARBOR

SOUTH LAKE
WORTH INLET

BOCA
RATON
INLET

*Atlantic
Ocean*

Palm Beach County



Jupiter/Carlin Shore Protection Project (SPP)



- 2003:** Complete audit for reimbursement of Federal share of renourishment in 2002 by County
- 2004:** Partial reimbursement to County for accomplished after audit in April 2004
- 2005:** Complete reimbursement if additional funds become available

Forward



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MARTIN COUNTY

JUPITER

JUPITER INLET

TOWN OF PALM BEACH

LAKE WORTH INLET
PALM BEACH HARBOR

WEST PALM BEACH

Atlantic Ocean

SOUTH LAKE WORTH INLET

BOCA RATON

BOCA RATON INLET

BROWARD COUNTY

Palm Beach County



Palm Beach Harbor Navigation Project



2003: Placed 100,000 cy material on down drift beaches; initiated south jetty sand tightening

2004: Maintenance dredging & placement of 100,000 cy on beach anticipated; complete south jetty sand tightening

2005: Maintenance dredging & placement on beach, pending receipt of funds

Forward



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MARTIN COUNTY

JUPITER

TOWN OF
PALM BEACH

WEST
PALM
BEACH

BOYNTON
BEACH

BOCA
RATON

BROWARD COUNTY

JUPITER INLET

LAKE WORTH INLET
PALM BEACH HARBOR

SOUTH LAKE
WORTH INLET

OCEAN RIDGE

BOCA
RATON
INLET

*Atlantic
Ocean*

Palm Beach County



Ocean Ridge Shore Protection Project (SPP)



- 2003:** County continuing design efforts for preparation of Limited Reevaluation Report (LRR)
- 2004:** County scheduled to complete LRR
- 2005:** County scheduled to complete plans & specs and award renourishment contract

Forward



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Palm Beach County

MARTIN COUNTY

JUPITER

JUPITER INLET

TOWN OF PALM BEACH

LAKE WORTH INLET
PALM BEACH HARBOR

WEST PALM BEACH

Atlantic Ocean

SOUTH LAKE WORTH INLET

BOCA RATON

BROWARD COUNTY

BOCA RATON INLET



Boca Raton - north Shore Protection Project (SPP)

- 2003:** City initiated engineering & design for next renourishment
- 2004:** City to complete Limited Reevaluation Report (LRR) and plans & specs for next renourishment
- 2005:** City to secure State Water Quality Certification (WQC) and award renourishment contract

Forward



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MARTIN COUNTY

JUPITER

TOWN OF
PALM BEACH

WEST
PALM
BEACH

BOCA
RATON

BROWARD COUNTY

JUPITER INLET

LAKE WORTH INLET
PALM BEACH HARBOR

SOUTH LAKE
WORTH INLET

BOCA
RATON
INLET

*Atlantic
Ocean*

Palm Beach County



Boca Raton - central Shore Protection Project (SPP)



2003: Limited Reevaluation Report (LRR) prepared by Corps

2004: City completed initial construction

2005: City to monitor completed project

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Broward County

PALM BEACH COUNTY

DEERFIELD BEACH

HILLSBORO INLET

POMPANO BEACH

LAUDERDALE BY-THE-SEA

PORT EVERGLADES

J. U. LLOYD STATE PARK

HOLLYWOOD

HALLANDALE

DADE COUNTY

Segment I

Atlantic Ocean



Segment I Shore Protection Project (SPP)

2004: Preparation of General Re-evaluation Report (GRR) to be initiated for northern Broward County – Hillsboro Inlet to North County Line

2005: Continue preparation of GRR

Forward



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Broward County

Segments II & III Shore Protection Project (SPP)



PALM BEACH COUNTY

DEERFIELD BEACH

HILLSBORO INLET

POMPANO BEACH

LAUDERDALE BY-THE-SEA

PORT EVERGLADES

J. U. LLOYD STATE PARK

HOLLYWOOD
HALLANDALE

DADE COUNTY

Segment II

Segment III

2003: Broward County completed draft General Re-evaluation Report (GRR) & Environmental Impact Statement (EIS) and constructed up front mitigation for Segment III

2004: County completed plans & specs, and plans to award the renourishment contract for Segment III in November 2004

2005: County intends to complete renourishment of Segment III

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BROWARD COUNTY

BAKERS HAULOVER INLET

MIAMI

VIRGINIA KEY

KEY BISCAYNE

Biscayne Bay

SUNNY ISLES

HAULOVER BEACH

BAL HARBOUR

SURFSIDE

NORTH MIAMI BEACH

SOUTH MIAMI BEACH

GOVERNMENT CUT

Atlantic Ocean

Dade County



Dade County Shore Protection Project (SPP)



2003: Village of Bal Harbour design memorandum initiated

2004: Bal Harbour design memorandum completed

2005: Plans & specs completed for renourishment of North Miami Beach with 400,000 cy anticipated

Home



GASPARILLA ISLAND

BOCA GRANDE PASS

PINE ISLAND

CAPTIVA ISLAND

SANIBEL ISLAND

ESTERO ISLAND

MATANZAS PASS
FORT MYERS BEACH

Gulf of Mexico

Lee County

Shore Protection Projects (SPP)



Estero Island



Gasparilla Island



- 2003:** GRR approval underway; Section 206 reimbursement agreement initiated
- 2004:** GRR approved; Section 206 reimbursement agreement being processed
- 2004:** Section 206 reimbursement agreement executed; renourishment activities initiated by sponsor

Forward



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GASPARILLA ISLAND

BOCA GRANDE PASS

PINE ISLAND

CAPTIVA ISLAND

SANIBEL ISLAND

ESTERO ISLAND

MATANZAS PASS

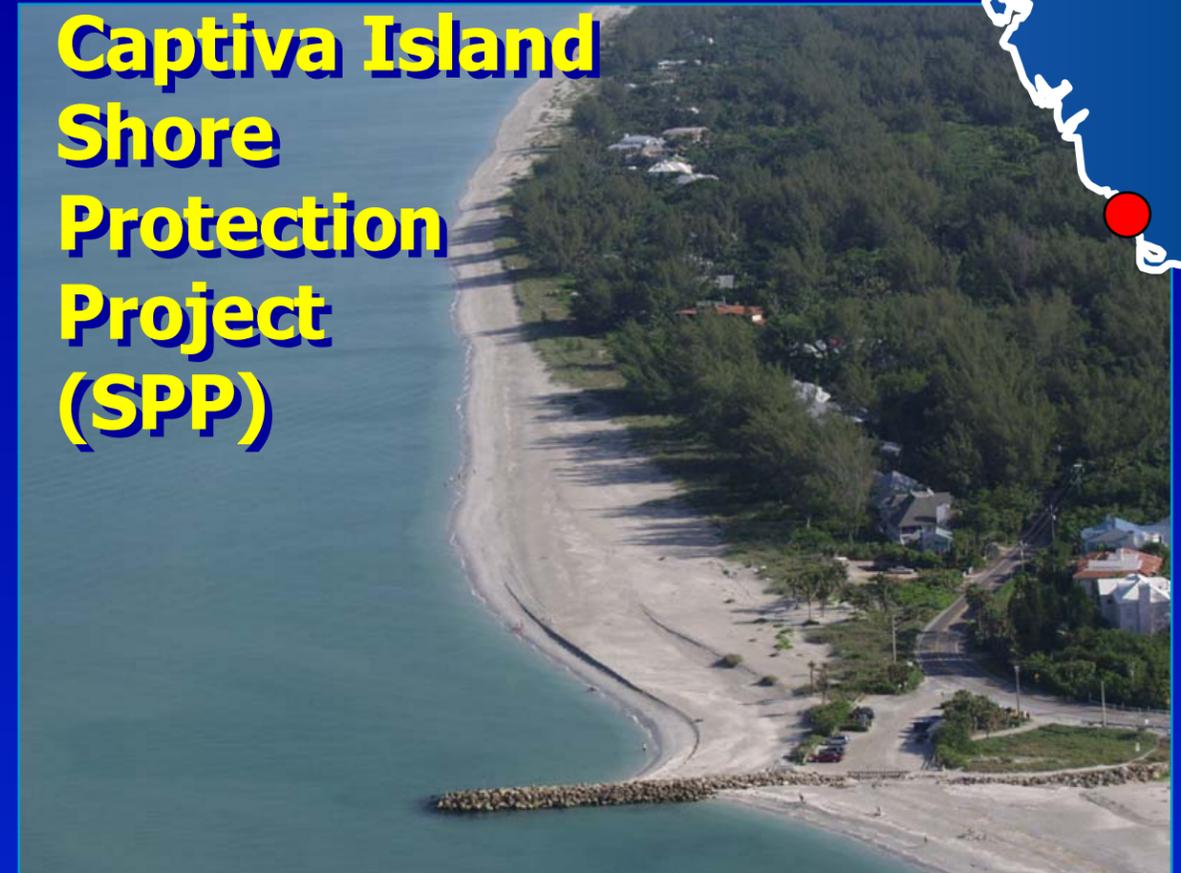
FORT MYERS BEACH

Gulf of Mexico

Lee County



Captiva Island Shore Protection Project (SPP)



2003: Section 206 Reimbursement Agreement initiated

2004: Section 206 reimbursement agreement being processed; plans & specs for next renourishment initiated by sponsor

2005: Renourishment activities conducted by sponsor

Previous

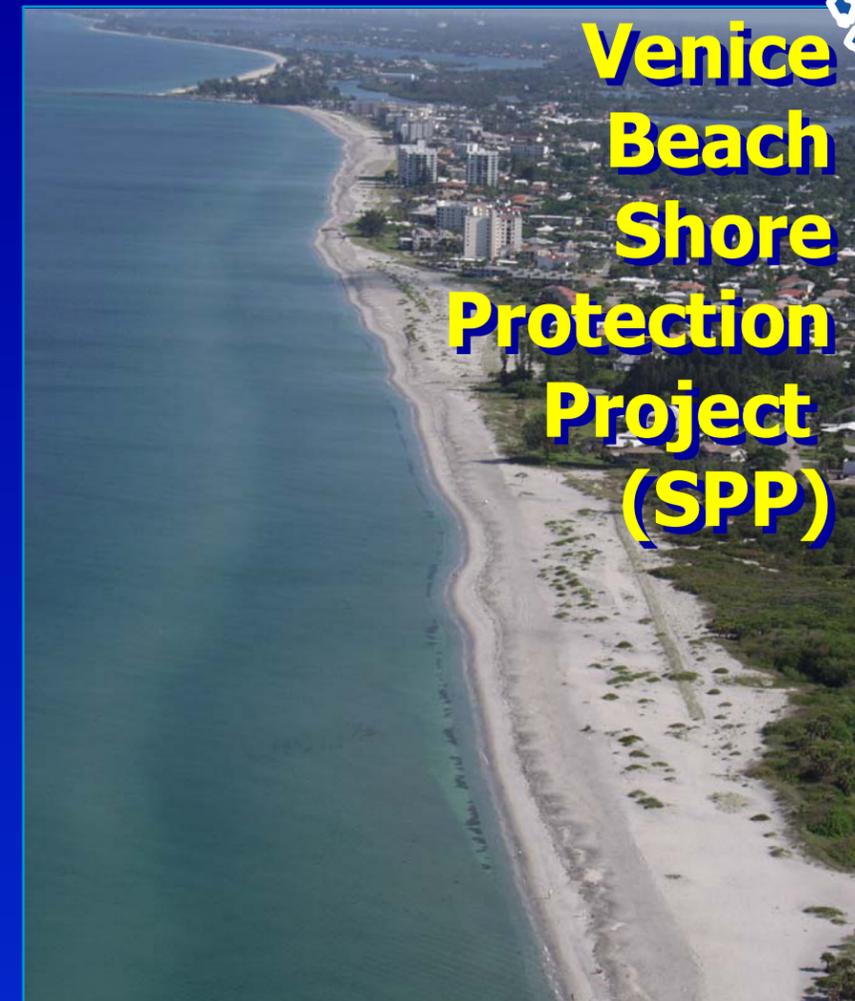


Home





Sarasota County



- 2003:** Plans & specs and permit acquisition conducted
- 2004:** Plans & specs and permit acquisition ongoing
- 2005:** Renourishment activities initiated pending receipt of funds

Forward



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MANATEE COUNTY

SARASOTA

NEW
PASS

LIDO
KEY

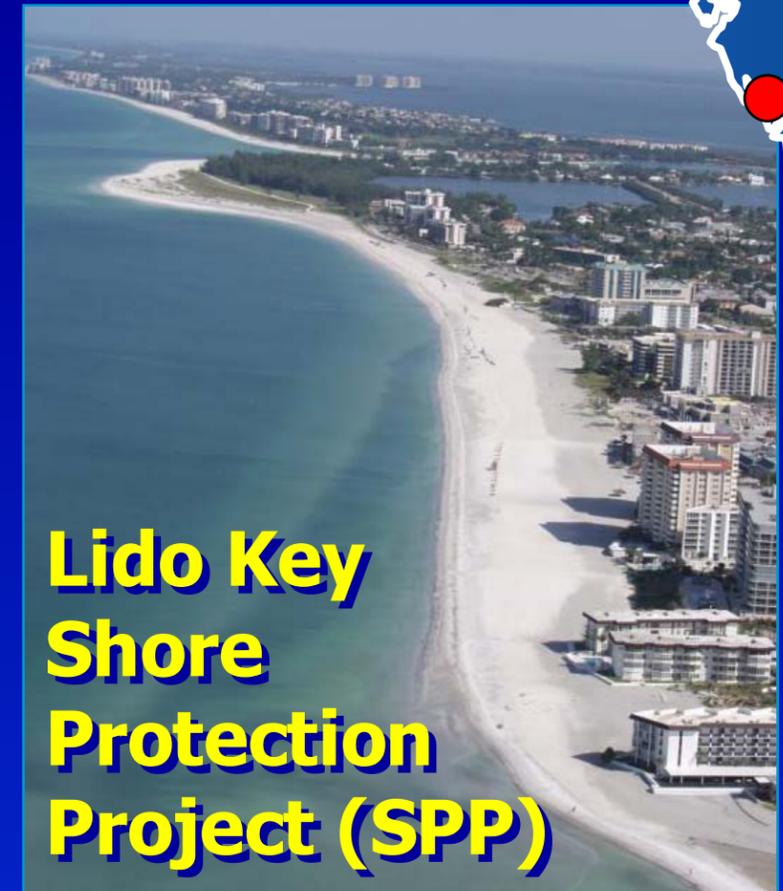
SIESTA KEY

*Gulf
of
Mexico*

VENICE INLET

VENICE

Sarasota County



**Lido Key
Shore
Protection
Project (SPP)**

2003: Review and approval of feasibility report conducted; maintenance dredging at New Pass placed 128,000 cy on beach

2004: Feasibility report approved; Chief of Engineers report pending

2005: Section 206 reimbursement agreement initiated; engineering & design efforts conducted by sponsor for construction

Previous

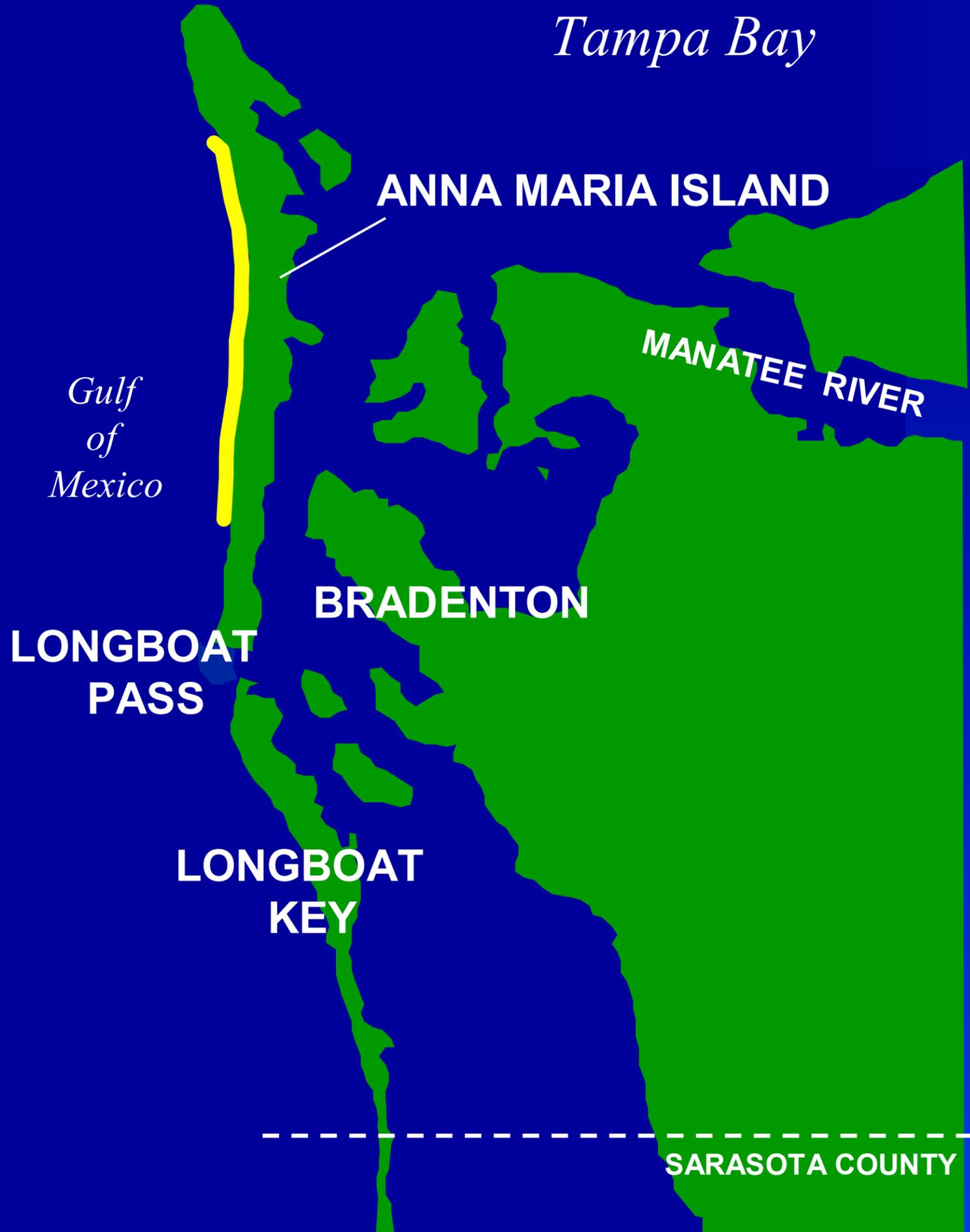


Home



Tampa Bay

Manatee County



Manatee County Shore Protection Project (SPP)

- 2003:** Completed audit for reimbursement of Federal share of renourishment cost in 2002 by County
- 2004:** Partial reimbursement to County accomplished after audit in May 2004
- 2005:** Complete reimbursement if additional funds become available

CLEARWATER
BEACH ISLAND

SAND
KEY

CLEARWATER

ST. PETERSBURG

TREASURE
ISLAND

LONG KEY

*Gulf
of
Mexico*

HILLSBOROUGH COUNTY

EGMONT KEY

Pinellas County

Pinellas County Shore Protection Project (SPP)



2003: Plans & specs for next renourishment of Treasure Island & Long Key conducted

2004: Renourishment of Treasure Island & Long Key underway; plans & specs preparation underway for next renourishment for Sand Key

2005: Renourishment of Sand Key initiated pending receipt of funds

Home





Walton County

Walton County Study



2003: Recon study conducted

2004: Feasibility phase initiated

2005: Feasibility phase continues

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