

Beach Nourishment, Local Perspectives: Broward County, FL

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Broward County Department of Planning &
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US Army Corps
of Engineers



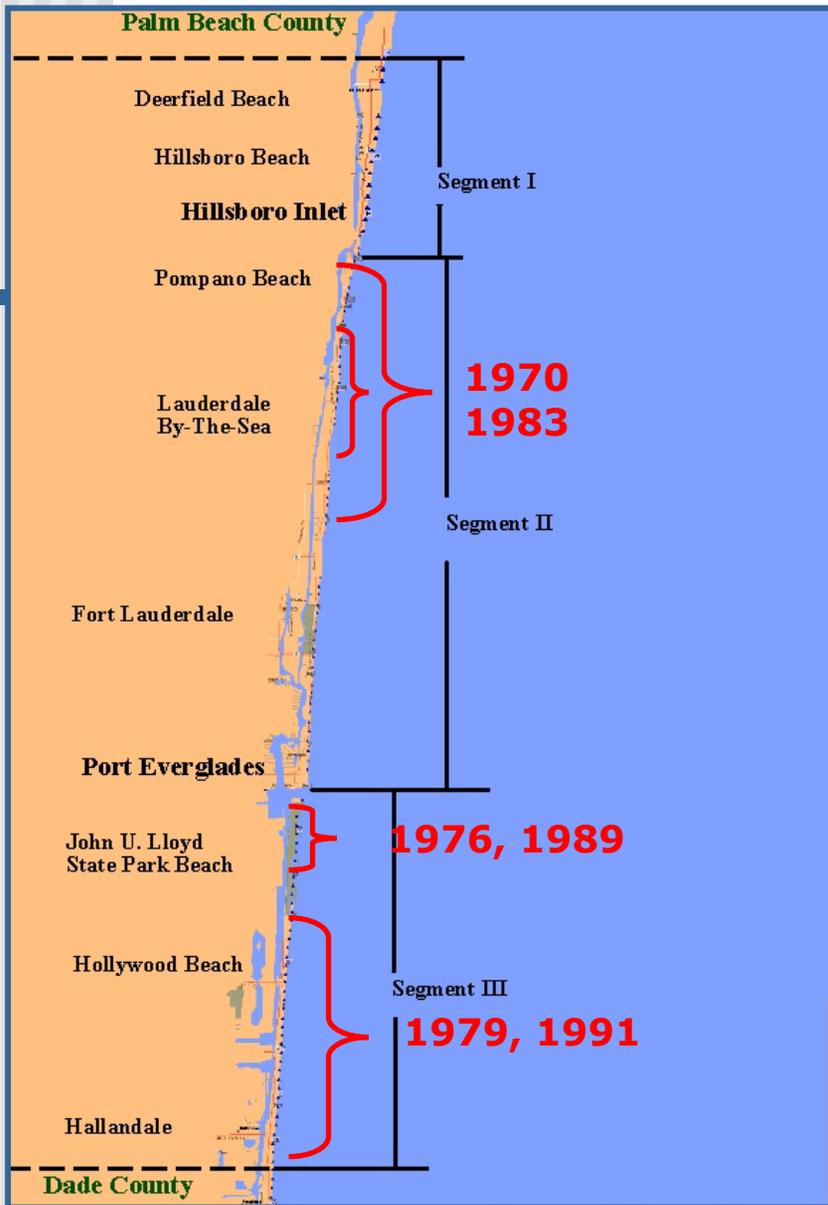
Broward County, Florida

Geographic Setting and Beach Characteristics



- **Located on SE Atlantic Coast.**
- **Fronts the Straits of Florida.**
- **Coastline “sheltered” by Bahama Banks.**
- **Seafloor contain reefs & hardbottom communities.**
 - **Reefs serve as “living breakwaters”.**
- **Exposed to Nor’easters and Tropical Systems.**

Broward County Shore Protection Project



- Authorized in 1965 River & Harbor Act: 3 separable segments, reimbursable.
- Segments II and III constructed, nourished.
- Authorization extended to 50 yrs. by WRDA 1996.
- WRDA 1999 authorizes County to be reimbursed for PED upon initiation of construction.

PROJECT HISTORY – All Reimbursable

Year	Project	Quantity (cy)	Length (mi.)	Total Cost (\$M)	Federal Share (\$M)	Non- Federal Share (\$M)
1970	Pompano (Seg. II)	1.08 million	2.8	1.76	0.88	0.88
1976	John U. Lloyd (Seg. III)	1.09 million	1.5	2.96	1.97	0.99
1979	Hollywood Hallandale (Seg. III)	2.0 million	5.2	7.83	3.33	4.50
1983	Pompano LBTS (Seg. II)	1.8 million	5.3	9.99	4.80	5.19
1989	John U. Lloyd (Seg. III)	604,000	1.6	5.68	3.97	1.71
1991	Hollywood Hallandale (Seg. III)	1.1 million	5.2	9.47	4.17	5.30
Totals		7.67 million	21.6	37.69	19.12	18.57

Project Performance

- Segment II: Constructed beaches stable to accretionary since 1983.
 - Sand bypassing at Hillsboro Inlet.
- Segment III: Erosional, nourishment necessary every 10-12 years.
 - Presence of Port Everglades navigation features.

Project Performance



Segment II, Pompano Beach, 1983.



Segment II, Pompano Beach, 2001.

Project Performance

Segment III



- Port Everglades navigation features block drift.
- Chronic erosion in Seg. III since 1927.

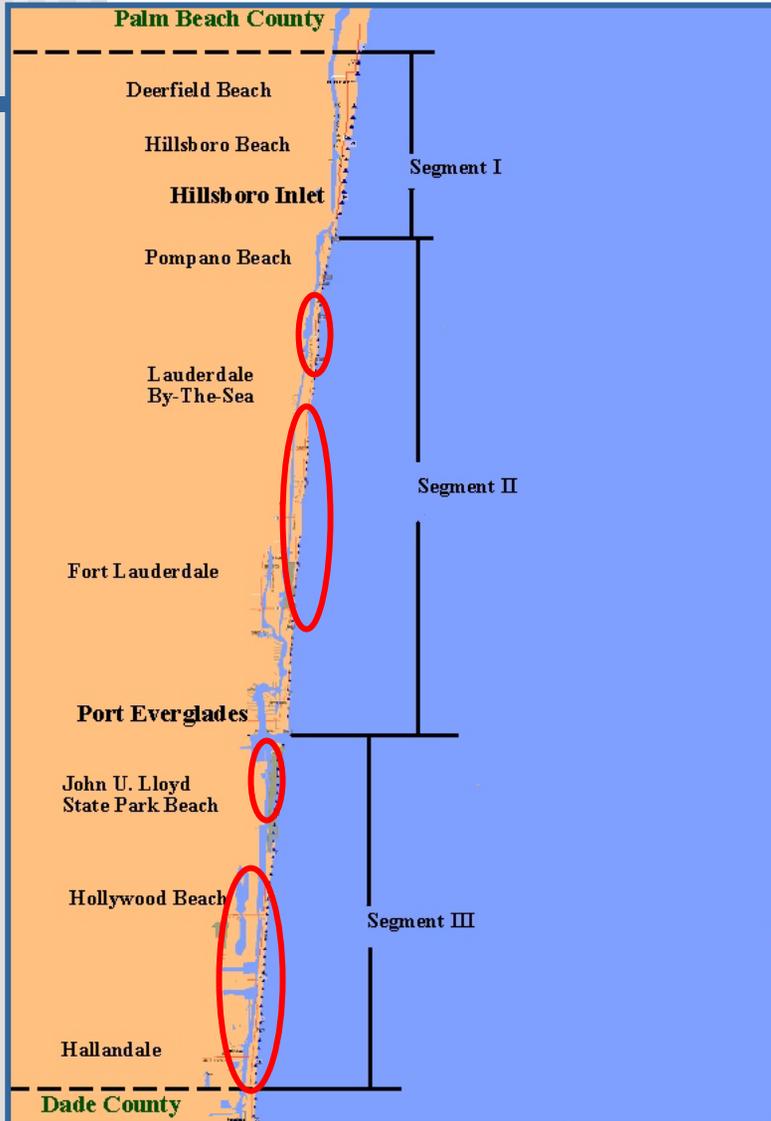
1962



2002



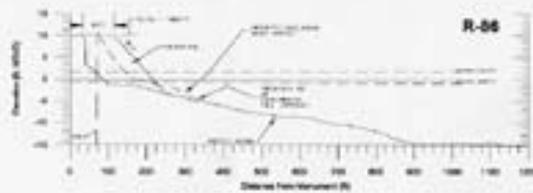
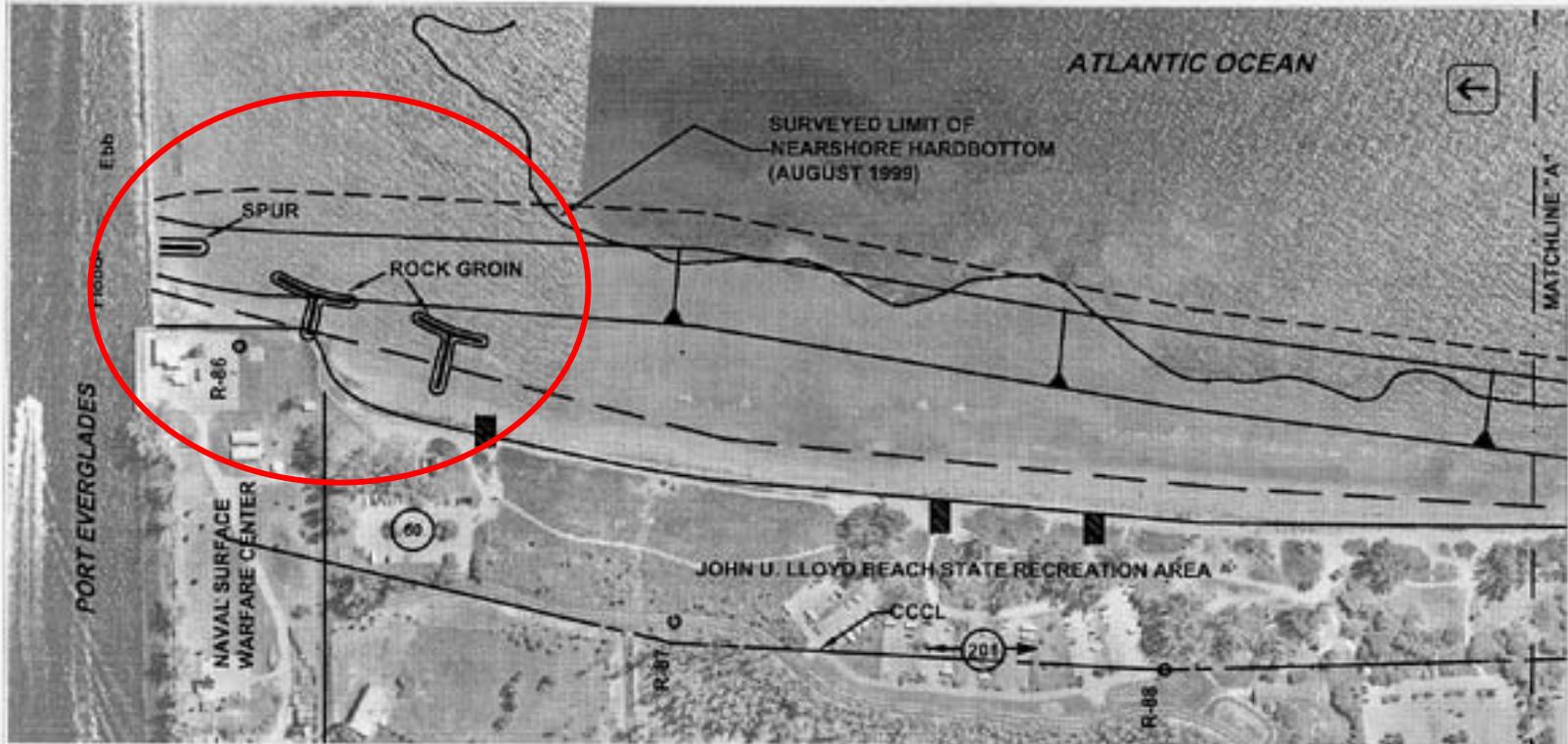
Planned Actions



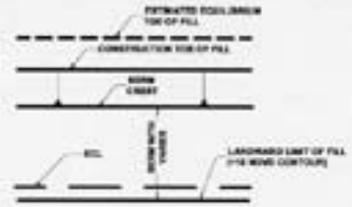
- Periodic nourishment in Segments II and III.
- Construction of a spur and 2 T-head groins south of Port Everglades.
 - GRR/DEIS to be released by SAJ in March.
 - Construction in Fall, 2002.
- Investigation of Sand Bypassing at Port Everglades.

Planned Actions

Project Features - Groins



- LEGEND**
- ⊙ PUBLIC PARKING SPACES
 - R-114 SURVEY MONUMENTS
 - ▬ PUBLIC ACCESS



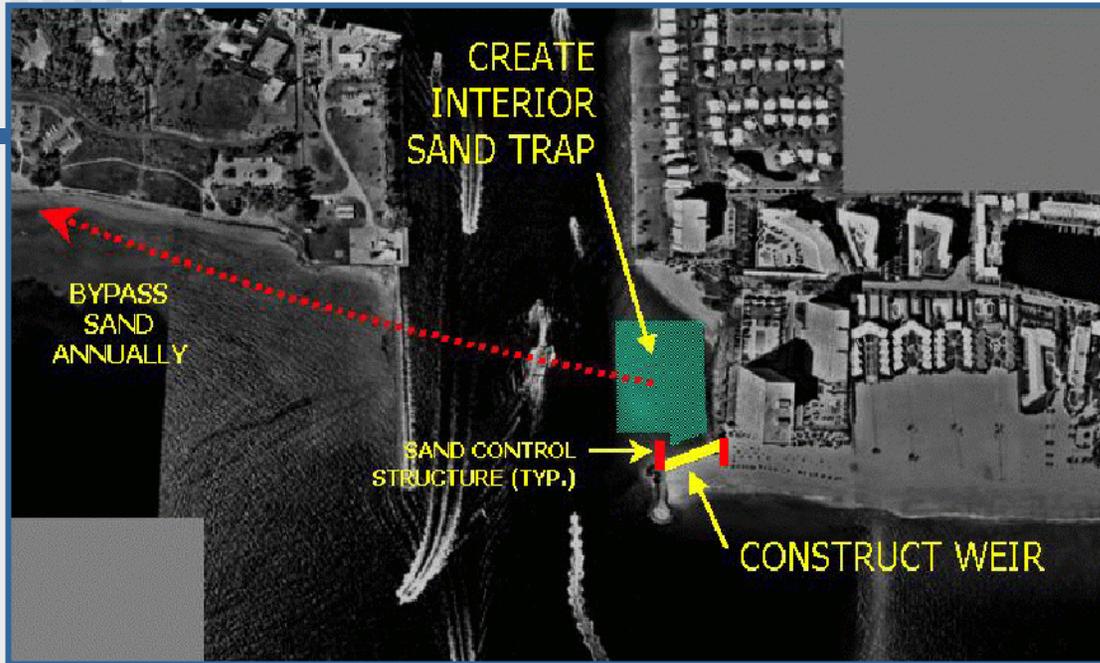
SCALE: 1" = 200'

BRONARD COUNTY, FLORIDA
BEACH EROSION CONTROL PROJECT
 SELECTED PLAN
 SCALES AS SHOWN
DEPARTMENT OF ARMY

JACKSONVILLE DISTRICT, CORPS OF ENGINEERS
 JACKSONVILLE, FLORIDA
 TO ACCOMPANY GENERAL REEVALUATION REPORT
 DATED: FILE No.

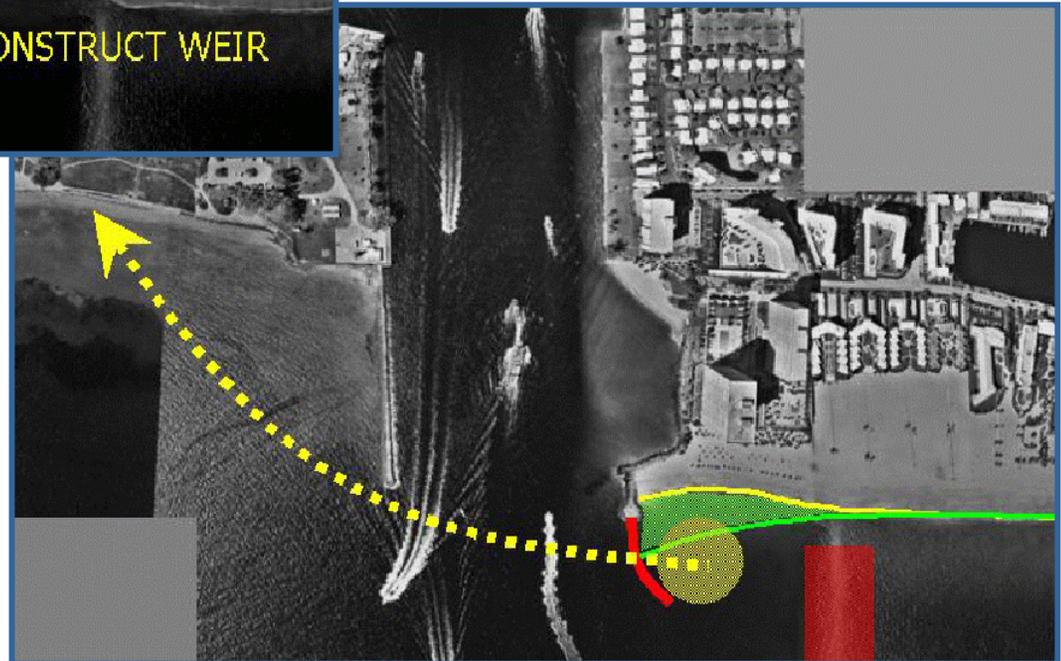
Planned Actions

Sand Bypassing Concepts



Original Concept -
Not well received.

New Concept -
Currently under study.



Planned Actions:

Project Costs and Apportionment

- Total estimated cost: \$44.92M
- Federal share: \$25.35M
- State share: \$10.58M
- County share: \$6.74M
- Municipal share: \$2.25M
- Sand Bypassing: TBD

Economic Value of Broward County Beaches

- **Broward's Beaches: Important to the County, the State, and the Nation.**
 - Broward's beaches: \$600M annually in spending.
 - Out-of-state visitors have a \$598 million annual impact on the economy of Florida.
 - Broward's Beaches create 19,000 jobs in Florida.
 - Florida's Beaches contribute \$430 million annually in Federal Income Tax revenues.
 - 85% of US Tourism in Coastal States.
 - Beaches are favorite destinations.

(Stronge, 1998; Houston, 1995, 2002)

Beach Nourishment and the Federal Government:

Local Perspectives

- Beaches are infrastructure.
 - Protection
 - Economic activity
 - Habitat
- Beaches are local assets and National treasures.
 - Linear parks
 - The Nation's "jeweled necklace"



Beach Nourishment and the Federal Government:

Local Perspectives

- Beach restoration & nourishment is successful, cost-effective.
- Reimbursable projects make sense:
 - More responsive to local needs.
 - Timely implementation, lower costs.
 - Can predict budgetary requirements.
 - More efficient use of USACE resources.

Beach Nourishment and the Federal Government: Policy Recommendations

- Recognize inevitability of coastal erosion.
- Acknowledge need to maintain integrity of beaches.
- Apportion costs consistent with benefits
 - Finalize & coordinate economic study.
- Develop a dedicated source of funding for beach erosion control.
- Make beach erosion control a high budgetary priority.
- Encourage reimbursable projects.

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THANK YOU!



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