2013 FEDERAL STORM RESPONSE

Presented to the Florida Shore & Beach Association

Presented by:
COL Alan Dodd
Commander, Jacksonville District

September 2013



THE COLLABORATION













BEACH RENOURISHMENT

Federal Mission and Shared Responsibility

USACE flood and coastal storm damage reduction mission is to provide safe and reliable projects that reduce economic and environmental damages, and prevent loss of life from both inland flooding and coastal storms



2013 COASTAL PROGRAM "Not What We Planned For"

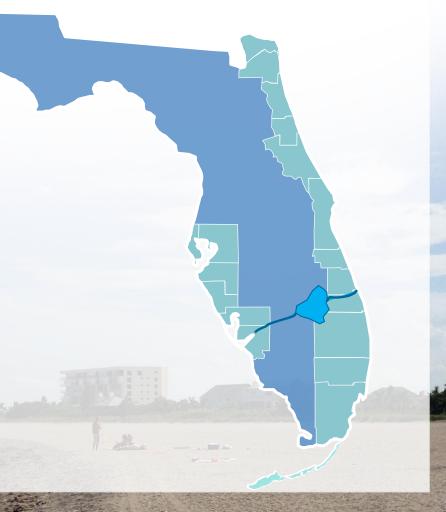
	PLANNED	ACTUAL
BEACH PROJECTS	1	14
NAVIGATION PROJECTS WITH BEACH PLACEMENT	1	10
CUBIC YARDS	0.5 M	8 M
Cost	\$ 5 M	\$ 145 M
LENGTH	0.5 MILE	38.5 MILES

PROGRAM

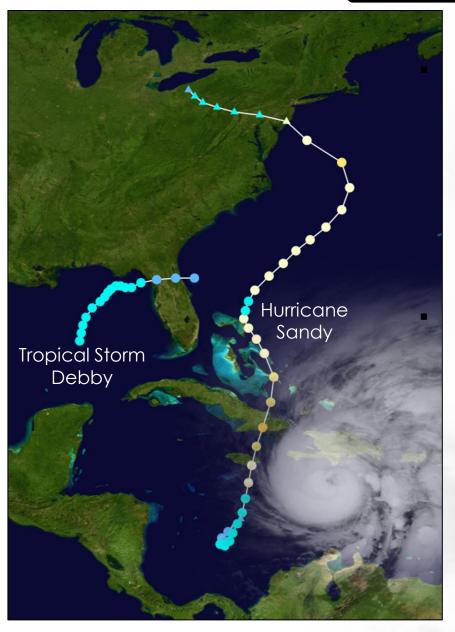
2013 FEDERAL PROGRAM

Sand on the Beach

- 1) St. Augustine Harbor
- 2) Ponce de Leon Inlet
- 3) Canaveral Harbor
- 4) Brevard County BEC North Reach
- 5) Brevard County BEC South Reach
- 6) Ft. Perce Harbor
- 7) Ft. Pierce Beach
- 8) St. Lucie Inlet
- 9) IWW Jupiter -
- 10) Martin County HSDR
- 11) Palm Beach Harbor
- 12) Palm Beach County, SPP Jupiter/Carlin
- 13) Palm Beach County SPP, Delray Beach
- 14) Palm Beach County SPP, North Boca Raton
- 15) Broward County SPP, Segment II
- 16) Port Everglades
- 17) IWW Bakers Haulover
- 18) Lee County, Gasparilla Island
- 19) Manatee County, Anna Maria Island
- 20) Pinellas County, Treasure Island
- 21) Pinellas County, Long Key
- 22) Palm Beach, Ocean Ridge
- 23) Dade County
- 24) Kings Bay Nassau County



STORMS



<u>Tropical Storm Debby</u>

- Gulf Formed: June 23, 2012
- Landfall: June 26, 2012
- Earliest "D" Named Storm
- Broad area of circulation which impacted the entire Florida Gulf Coast Region
- \$250 million in damages with ten deaths

<u>Hurricane Sandy</u>

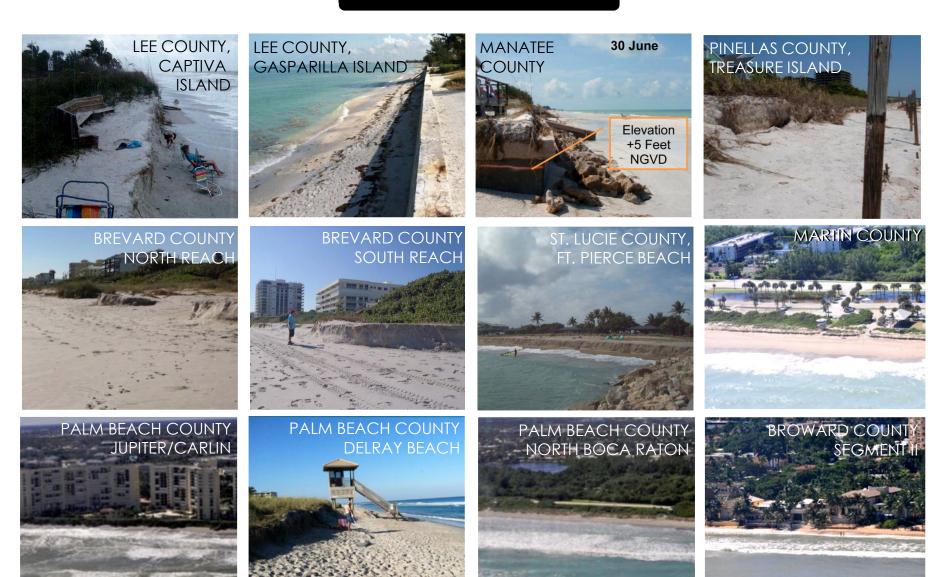
- Caribbean Sea Formed: October 24, 2012
- Landfall Brigantine, NJ: October 30, 2012
- Tenth hurricane and second major storm
- Impacted the Entire East Coast; brought tropical-storm force winds, rain, and large swells to South Florida from October 25–29
- \$68 Billion in damages with 286 deaths



2013 FCCE RESPONSE

PHASE I: Reconnaissance Public Notice





PHASE I: Reconnaissance Public Notice

PHASE 2: Public Notice & PIRs

- A. Authorized and Constructed Federal project
- B. "Extraordinary Storm"
 - Category 3 or higher hurricane or
 - Greater than the design storm
- C. Significant Damage
 - Cost > \$1M and > 2% of initial construction cost OR
 - Cost > \$6 million (excluding mob) OR
 - >1/3 of full renourishment volume lost due to storm
- D. Benefit to cost > 1.0 (without recreation)
- E. FCCE funding limited to restore adequate functioning



PHASE 2: Public Notice & PIRs

- Jacksonville District written with input from sponsors
- Agency Technical Reviews
- South Atlantic Division reviews and endorsement
- Headquarters approval
- Funding subject to availability



PHASE 3: Design Through Award

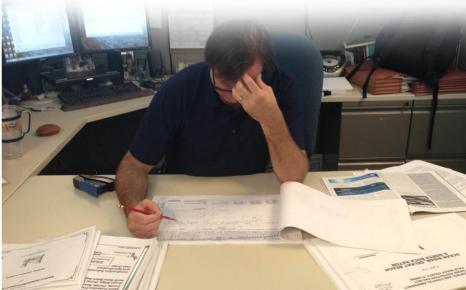
Project Collaboration

- Wilmington District (SAW)
- Walla Walla District (NAW)
- Consultants
- Local Sponsors
- Florida Department of Environmental Protection

Project Design

- Use of local knowledge on project template
- Provided a smooth and repeatable fill template





PHASE 3: DESIGN THROUGH AWARD

Coordination and Funding

- Coordinate funding
- Secure FCCE funds
- Secure CG funding match
- NF funds from sponsor and state

FEDERAL	non-federal		
\$124 M	\$21 M		
86%	14%		



PHASE 3: DESIGN THROUGH AWARD

Environmental

- Permit acquisitions
- Florida Department of Environmental Protection (FDEP)
- Bureau of Ocean Energy Management (BOEM)
- National Environmental Policy Act (NEPA) compliance
- Turtle monitoring

FDEP Coastal Staff





PHASE 3: DESIGN THROUGH AWARD

Real Estate

Verify Conditions of the Cost Sharing Agreement

- Public access, parking, and proper real estate easements
- Verification could add time to emergency rehabilitation
- Issue done at time of decision document and not regularly revisited
- Alternatives require as part of yearly monitoring reports, economic update reports

Image Courtesy of New York Times: Easements Dividing Communities



TODAY'S SPECIAL

PHASE 3: DESIGN THROUGH AWARD

Legal Agreements

- Cooperation Agreements: For execution of FCCE funds
- Project Partnership Agreements: 4 new agreements executed quickly
- Real estate certification/review



PHASE 3: DESIGN THROUGH AWARD

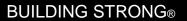
Industry Collaboration

Risks

- Competition with large USACE North Atlantic Division jobs
- Dredge availability and high bids
- Turtle window on East Coast
- Limited hopper availability
- Short timelines for award

Strategy

- Combining proximal jobs with similar equipment
 - ▶ Saves mobilization & contract costs
 - ▶ By combining contracts we saved an estimated \$20M in mobilization costs
 - First time realizing these savings



PHASE 3: DESIGN THROUGH AWARD

Contracting



Bidding Climate Concerns

- Availability of dredges competition between districts
- Higher volumetric prices for sand
- Higher than normal prices affect ability to complete with limited FCCE or CG dollars

PHASE 4: Award & Construction



Ft. Pierce BeachBefore and After

Project Name	Contract (Millions)	Start	End
Tropical Storm Debby			
Pinellas Co - Treasure Island	\$11.0	no window	30-Sep-14
Manatee County - Anna Maria	\$12.3	no window	21-Jun-14
Lee Co - Gasparilla	\$7.5	no window	21-Jun-14
Hurricane Sandy			
Brevard - North Reach	\$12.5	1-Nov-13	30-Apr-13
Brevard - South Reach	\$9.7	1-Nov-13	30-Apr-13
Martin County	\$8.4	Complete	23-Apr-13
Ft. Pierce Beach	\$5.2	Complete	30-May-13
Palm Beach Co Jupiter/Carlin	\$4.0	20-Nov-13	1-Jan-14
Palm Beach Co North Boca*	\$5.1	20-Nov-13	30-Apr-14
Palm Beach Co Delray Beach*	\$4.1	20-Nov-13	30-Apr-14
Broward Co. Seg. II	\$7.1	1-Nov-13	30-Apr-14
CG (negative PIR)			
Palm Beach Co Ocean Ridge*	\$6.7	20-Nov-13	30-Apr-14
Pinellas Co - Long Key	\$5.4	no window	30-Sep-14
Navigation			
Port Everglades	\$8.5	Complete	19-Apr-13
Port Canaveral	\$7.5	Complete	Aug-13
Palm Beach Harbor	\$5.0	Complete	Apr-13
Ft Pierce Inlet	\$3.3	1-Jan-13	20-May-13
St Lucie Inlet	\$6.5	1-Nov-13	20-Feb-14
St Augustine Inlet	\$2.0	20-Oct-13	1-Mar-14
Ponce Inlet	\$2.4	25-Sep-13	1-Oct-13
AIWW-Jacksonville to Miami	\$2.6	1-Nov-13	30-Apr-14

RESULTS

PHASE 4: Award & Construction





PEOPLE AND TEAMWORK MAKE IT POSSIBLE



















































CUR GRATITUDE