



A message from FSBPA

Welcome to the December edition of Shoreline. The holiday season is here, giving the FSBPA team an opportunity to say thank you for your support. This year was a challenging year for us all, but with your support, FSBPA will close 2020 with two notable achievements. After years of legwork and teamwork, we helped to secure \$50M in recurring funds for the statewide beach management program. This level of dedicated funding will help to maintain beaches that are part of the statewide program and to address critically eroded beaches that are not yet part of any shore protection project. The second noteworthy achievement came unexpectedly, and that was to host our first-ever hybrid conference. This hybrid event allowed our 63-year tradition of meeting about the environmental, economic and social impact and importance of beaches to continue. Next year will certainly come with a new set of challenges and opportunities for Florida's beaches and this association, but with your continued support, we are ready to meet any task.

It is exciting and ensuring to move into the next decade with this momentum. Kicking off 2021, we are pleased to announce the 34th National Conference on Beach Preservation Technology will be held as a hybrid event, February 3-5, in St. Augustine and via Zoom. The hybrid format is offered to give attendees an option to participate in-person or on-line depending on their individual circumstances. As conference organizer, we hope you will make plans to attend the conference. Check *[continued on next page](#)*

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of Engineers®

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Happy Holidays

out the [program](#) and make your plans to attend today. [Registration](#) is now open for in-person or on-line attendees.

Lastly, on behalf of the Board of Directors, it is our pleasure to welcome three new board members, Tom Harmer, Dan Rowe, and Andy Studt. More information about our new board members is provided on the following page.

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Meet the New Board Members

Tom Harmer **Town of Longboat Key**

Since 2017, Tom Harmer has served as the Town Manager of Longboat Key, a barrier island on the Southwest Florida Coast approximately 11 miles long with a tax base of over \$6B and a year-round population of approximately 7,000 that grows seasonally to 20,000. The Town is split between two counties, Sarasota and Manatee, which adds a unique element to Tom's role as Town Manager.



The Town has managed an engineered beach for a number of years, and Tom is currently working to advance a \$42M five-year beach management plan that includes a major re-nourishment in 2021/2022, and the installation of five new rock groins on the north end of the island.

Tom has over 35 years of experience working in the local government sector, including serving formerly as the County Administrator in Sarasota County, and the Fire Chief and Deputy Fire Chief in Titusville and Tallahassee, respectively. He earned a BS in Fire and Safety Engineering from the University of Cincinnati, a Master's in Public Administration from the University of Central Florida, and is certified as a Credentialed Manager (ICMA-CM). A native of Hollywood Beach, Tom now lives on Longboat Key with his wife, Dee. They have two sons and three grandchildren, and in their spare time enjoy walking or biking to the beach.

Dan Rowe **Visit Panama City Beach** **Bay County Tourist Development Council**



For the past twelve years, Dan Rowe has served as president and CEO of the Visit Panama City Beach (CVB) and executive director of the Bay County Tourist Development Council (TDC). In this dual role, Rowe is responsible for the development and implementation of the marketing and public relations efforts for the CVB, as well as overseeing Panama City Beach's federal beach renourishment project. A few of Rowe's other beach – related accomplishments include rebranding the destination as a REAL.FUN.BEACH; serving as the primary tourism spokesperson during the Deepwater Horizon Oil Spill and other emergencies; and overseeing the development of the Natural and Cultural Resource Recovery Plan in the aftermath of Hurricane Michael.

Prior to joining Panama City Beach, Rowe was travel director for the State of Georgia, serving as the Deputy Commissioner for the Georgia Department of Economic Development. He has also served as the Executive Director of the Tourism Development Alliance of Georgia. Rowe is a graduate of Colorado State University and resides in Panama City with his wife, Laurie.

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Andy Studt
Palm Beach County

Andy Studt is an Environmental Program Supervisor with Palm Beach County’s Department of Environmental Resources Management and has worked for the County for over 16 years on a wide range of projects including water quality, resource mapping, estuarine and coastal restoration projects. Mr. Studt currently manages the County’s Coastal Resources Program, which encompasses a wide variety of regional shore protection projects throughout its 47-mile Atlantic coastline including inlet management, beach nourishment, dune restoration, and estuarine shore stabilization. A native of Florida, Andy earned a Bachelor of Science in Environmental Science from the University of Florida and has spent much of his life enjoying the state’s beautiful beaches and reefs. Outside of work, Andy enjoys local fishing, travel, camping, and photography in the Rockies.



“I am honored to represent the County’s interests as a Director for an organization as respected and influential as the FSBPA. I look forward to providing unique insight on our continued pursuit of environmentally sensitive, fiscally responsible, and resource-balanced shore protection projects.”

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FLORIDA SHORE & BEACH
PRESERVATION ASSOCIATION

2021 Board of Directors

Officers for 2021

Chair: Don Donaldson (Martin County)
Vice-Chair: Charlie Hunsicker (Manatee County)
Secretary-Treasurer: Emily Lewis (Charlotte County)

These officers and the past chair, Virginia Barker (Brevard County), will serve as the Executive Committee for 2021.

Board of Directors

Virginia Barker, Brevard County
Jennifer Bistyga, City of Boca Raton
Marina Blanco-Pape, Miami-Dade County
Steve Boutelle, Lee County
Damon Douglas, St. Johns County
Tom Harmer, Town of Longboat Key
Joshua Revord, St. Lucie County
Dan Rowe, Bay County Tourist Development Council
Andy Studt, Palm Beach County
Janet Zimmerman, Florida Inland Navigation District

Ex-Officio Board Members

Chuck Broussard, Weeks Marine
Niki Desjardin, Ecological Associates, Inc.
Thomas Pierro, Coastal Protection Engineering



34th Annual Conference

February 3-5, 2021
Embassy Suites by Hilton
St. Augustine Beach

The Planning Committee is pleased to announce the release of the 2021 Conference Program. The Committee thanks everyone who submitted an abstract on the innovative and thought provoking work that you've undertaken to improve and enhance the beaches and coastal systems where we work, live and recreate. The program reflects an outstanding agenda on the most current and relevant topics that affect our coastal resources.

This year's conference will be held in a hybrid format with virtual participants joining us via Zoom. Information on registration and hotel reservations are available [online](#) or you can click on the buttons below for more details.

Register Now!

Hotel Reservations



Embassy Suites by Hilton St. Augustine Beach Resort

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2021 Tech Conference DRAFT Program
February 3-5 ♦ Embassy Suites by Hilton St. Augustine Beach

Wednesday, February 3

OPENING GENERAL SESSION

1:00 p.m. to 5:30 p.m.

1:00 p.m.

Welcome from Henry Dean, St. Johns County District 5, St. Augustine, FL

1:10 p.m.

Performance and Design Considerations of Historic and New-Start Shore Protection Projects in St. Johns County
Stephen Hammond, E.I., St. Johns County, FL

1:35 p.m.

A Tale of Two Sand Sources: Designing New Sand Sources for Beach Restoration in Northeast Florida
Jennifer Coor, Ph.D., P.G., U.S. Army Corps of Engineers, Jacksonville District, FL

1:55 p.m.

Beach Fill Up and Over Coastal Structures in Vilano Beach, FL
Will Reilly, P.E., Geoff Klug, P.E., and Rosie Pinto, E.I., U.S. Army Corps of Engineers, Jacksonville District, FL

2:15 p.m.

Evaluation of Sediment Basins Performance for Navigation Channel Shoaling Reduction and Shoreline Sand Bypassing
Michael Kabling, Ph.D., P.E., CFM, Taylor Engineering, Inc., Jacksonville, FL

2:35 p.m.

The New Beachfront Data Collection Facility in St. Johns County, Florida: A Collaborative Effort
William Dally, Ph.D., P.E., University of North Florida, Jacksonville, FL, Michael Shirley, Ph.D., Guana Tolomato Matanzas National Estuarine Research Reserve, Ponte Vedra Beach, FL and Rajesh Srinivas, Ph.D., P.E., St. Johns County, FL

2:50 p.m.

UNF Students' Site Investigation for the New Beachfront Data Collection Facility in St. Johns County, Florida
Brynna Bartlett, Camden Dean, Garrett Jones, and William Dally, Ph.D., P.E., University of North Florida, Jacksonville, FL

3:05 p.m.

Professional Exchange Break (25 Minutes)

3:30 p.m.

Coastal Flood Resilience Implementation Plan for Town of Palm Beach, FL: Using Sound Science to Build Resilience into Public Works Planning
Kirk Bosma, P.E. and Nasser Brahim, Robert Hamilton, Woods Hole Group, Bourne, MA and Robert Weber, Town of Palm Beach, FL

3:50 p.m.

FDEP's Beaches, Inlets and Ports Program Update
Gregory Garis, Office of Resilience and Coastal Protection, Florida Department of Environmental Protection, Tallahassee, FL

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4:10 p.m.

Impact of Hurricane Sally on the Northwest Coast of Florida, 2020

Ralph Clark, P.E., William Weeks, and Jeohusua Lugo, Office of Resilience and Coastal Protection, Florida Department of Environmental Protection, Tallahassee, FL

4:30 p.m.

Beach Impacts of Hurricane Sally in the Florida Panhandle and Alabama

Al Browder, Ph.D., P.E., D.CE and Sergio Pena, E.I., Olsen Associates, Jacksonville, FL

4:50 p.m.

St. Andrews State Park Emergency Restoration Project: “Working Together for a Common Goal”

Michael Dombrowski, P.E. and Katie Hutschenreuter, E.I., MRD Associates, Inc., Destin, FL, Lauren Floyd, Coastal Protection Engineering, Boca Raton, FL, and Lisa Armbruster, Sustainable Beaches, LLC, Ponte Vedra, FL

5:10 p.m.

Case Study: Navarre Beach – Performance during Hurricanes

Hannah Walsh, E.I. and Tem Fontaine, P.E., Coastal Tech-G.E.C., Inc., Vero Beach, FL

5:30 p.m.

Adjourn

Thursday, February 4

GENERAL SESSION

8:00 a.m. to 11:55 a.m.

8:00 a.m.

Historical Changes in the Lake Worth Inlet Flood Shoal

Jannek Cederberg, P.E., Jordon Cheifet, P.E., CFM, and Leonard Barrera Allen, E.I., Cummins Cederberg, Inc., Miami, FL

8:20 a.m.

An Analysis of the Shoaling at The Port of Palm Beach Entrance Channel and Strategies to Control Costs and Impacts to Shipping

Ronald Coddington, P.E., Port of Palm Beach, Riviera Beach, FL

8:40 a.m.

Sand Management at St. Lucie Inlet, Martin County

Stacey Roberts, Atkins, Sarasota, FL, John Ramsey, P.E., Ph.D., Applied Coastal Research and Engineering, Mashpee, MA, and Kathy FitzPatrick, P.E. and Jessica Garland, Martin County, Stuart, FL

9:00 a.m.

4 for 1: How the Coquina Beach FEMA Project Addresses Impacts from Two Storms Alongside a Federal Nourishment and Inlet Maintenance in Manatee County, Florida

Thomas P. Pierro, P.E., D.CE and Michelle Pfeiffer, P.E., Coastal Protection Engineering, Boca Raton, FL and Charlie Hunsicker and Erin Struzzieri, Director of Parks and Natural Resources Department, Manatee County, Bradenton, FL

9:20 a.m.

Louisiana Barrier Island Restoration, A Five Island Grandiose Endeavor During a Pandemic

Michael Poff, P.E., Coastal Engineering Consultants, Inc., Bonita Springs, FL, and Steve Dartez, Brett Borne, P.E., Coastal Engineering Consultants, Inc., Denham Springs, LA

9:40 a.m.

Professional Exchange Break (25 Minutes)

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10:05 a.m. – 11:10 a.m.

PANEL: Palm Beach Island Beach Management Agreement (BMA) Five Year Program Review

10:05 a.m.

Programmatic and Regulatory Aspects of the BMA

Lainie Edwards, Ph.D., Office of Resilience and Coastal Protection, Florida Department of Environmental Protection, Tallahassee, FL

10:15 a.m.

Local Stakeholder Perspectives on the BMA

Robert Weber, Town of Palm Beach, FL

10:25 a.m.

Imperiled Species Management Under the BMA

Robbin N. Trindell, Ph.D., Imperiled Species Management, Florida Fish and Wildlife Conservation Commission, Tallahassee, FL

10:40 a.m.

Regional Monitoring of Hardbottom Resources Under the BMA

Cheryl Miller, Coastal Eco-Group, Deerfield Beach, FL

10:55 a.m.

Physical Monitoring and Adaptive Management Under the BMA

Mike Jenkins, Ph.D., P.E., Applied Technology and Management, Inc., West Palm Beach, FL

11:10 a.m.

Stony Coral Tissue Loss Disease Highlights Need for Novel Restoration Activities

Victoria Barker, Nova Southeastern University/Florida Keys National Marine Sanctuary, Key West, FL, and Joanna Walczak, Coral Protection and Restoration Program Office of Resilience and Coastal Protection, Florida Department of Environmental Protection, Miami, FL

11:25 a.m.

Promoting Sexual Reproduction and Genetic Diversity in Coral Offspring for Reef Restoration in the Wake of a Major Coral Disease Event

Keri O'Neil, The Florida Aquarium Center for Conservation, Apollo Beach, FL

11:40 a.m.

Structural Stabilization and Rehabilitation of Two Reef Sites Impacted by *M/V Spar Orion* and *M/V Clipper Lasco* Groundings, Fort Lauderdale, Florida

Chris Creed, P.E., Olsen Associates, Jacksonville, FL and Cheryl Miller, Coastal Eco-Group, Deerfield Beach, FL

12:00 p.m.

Lunch (1 Hour)

1:00 p.m.

Model-based Decision Support for Coastal Hazard Evaluation and Adaptation: Coastal ADAPT

Cheryl Hapke, Ph.D., Integral Consulting, St. Petersburg, FL

1:20 p.m.

The Meeting of Two Missions: How Climate Change is Bringing the USACE Coastal Storm Damage Reduction and Ecosystem Restoration Programs Together

Jason Engle, P.E. and Matt Schrader, P.E., Jacksonville District, and Jackie Keiser, P.G., South Atlantic Division, Jacksonville, FL

1:40 p.m.

St. Augustine and STAPLEE: A Tool for Prioritizing Flood Adaptation for Historic Properties

Angela Schedel, Ph.D., P.E., Taylor Engineering, Inc., Jacksonville, FL

2:00 p.m.

Miami-Dade County Coastal Erosion Modeling

Alberto Pisani, P.E. and Marina Blanco-Pape, P.E., Miami-Dade County Department of Regulatory and Economic Resources, Miami, FL, Jesse Davis, P.E. and Hugo Rodriguez, Ph.D., P.E., GHD, Inc., Miami, FL and Nicholas Bragaia, E.I., GHD, Inc., Wellington, FL

2:20 p.m.

Climate Change Resiliency Considerations for Barrier Islands Along Southwest and Central Florida

Mohamed Dabees, Ph.D., P.E., D.CE., Humiston & Moore Engineers, Naples, FL

2:40 p.m.

Coastal Resiliency Initiatives as Flood Risk Management Strategies

Doris Otero, Ph.D., APTIM, Boca Raton, FL

3:00 p.m.

Professional Exchange Break (25 Minutes)

3:25 p.m.

Drone Technology and Rubble Mound Structures - St. Lucie Inlet South Jetty Case Study

Andrew Wycklendt, P.E., APTIM, Boca Raton, FL and Kathy FitzPatrick, P.E., Martin County, Stuart, FL

3:45 p.m.

Practical Considerations and Responses to Ageing Coastal Structures

Douglas Mann, P.E., D.CE., APTIM, Boca Raton, FL

4:05 p.m.

Dellanera PAS Breakwater

Emily Perron, Patrick Kerr, Ph.D., PE., and Coraggio Maglio, P.E., U.S. Army Corps of Engineers, Galveston District, TX

4:25 p.m.

Physical Model Investigation of Mangrove Effects on Hydrodynamics and Loads on Near-Coast Structures

Tori Tomiczek and Anna Wargula, United States Naval Academy, Annapolis, MD, Sabella Goodwin, U.S. Navy, Dan Cox, Oregon State University, Andrew Kennedy, University of Notre Dame, Pedro Lomonaco, Oregon State University, and Patrick Lynett, University of Southern California

4:45 p.m.

Living Shorelines along the Georgia Coast

Jordan Dodson, Georgia Department of Natural Resources-Coastal Resources Division, Brunswick, GA

5:05 p.m.

Implementing a Resilient Structure to Protect Coastal and Historic Resources at Brunswick Town/Fort Anderson

Phillip Todd, Atlantic Reefmaker, Belville, NC, Jim McKee, Brunswick Town/ Fort Anderson State Historic Site, Southport, NC, and Devon Eulie, Ph.D., University of North Carolina at Wilmington, NC

5:25 p.m.

Adjourn

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Friday, February 5**CLOSING GENERAL SESSION****8:00 a.m. to 12:25 p.m.****8:00 a.m.****Aquares IDGM - Mygeotwin Sand Search Technologies****Shailesh Patel and John Sawyer, ArcDMC Sediment Solutions LLC, Melbourne, FL and Peteralv Brabers, Ph.D., Demco NV, Wintershoven, Belgium****8:20 a.m.****SandSnap: Engaging Citizen Scientists to Crowdsource Beach Grain Size Data****David Young, Ph.D. and Brian McFall, Ph.D., P.E., U.S. Army Engineer Research and Development Center, Duck, NC and Vicksburg, MS****8:40 a.m.****South Atlantic Division Sand Availability and Sand Needs Study (SAD SAND)****Barbara Nist, P.G., U.S. Army Corps of Engineers, Jacksonville District, FL****9:00 a.m.****USACE South Atlantic Division Dredged Material Management Areas Offloading and Sediment Exchange Study****Jonathan Armbruster, P.E., Taylor Engineering, Inc., Jacksonville, FL****9:20 a.m.****Data Collection and Analysis for USACE Coastal Resilience SAND Investigation****Wendy Laurent, E.I. and Angela Schedel, Ph.D., P.E., Taylor Engineering, Philadelphia, PA and Jacksonville, FL****9:40 a.m.****A Meteorite Impact Crater in Coastal Waters off Miami Beach? – Novel Data and Insights****William Aley IV, P.G., Taylor Engineering, Jacksonville, FL****10:00 a.m.****Professional Exchange Break (25 Minutes)****10:25 a.m.****The Economic Value of South Carolina's Beaches****James Houston, Ph.D., U.S. Army Engineer Research and Development Center, Vicksburg, MS****10:45 a.m.****Ocean Fishing Pier Design with Limited Pile Embedment****Jonathan Sigman, P.E., Collins Engineers, Inc., Charleston, SC and Matt Goodrich, P.E., Water Environment Consultants, Mount Pleasant, SC****11:05 a.m.****Coastal Erosion in a Highly Artificial Dynamic Shoreline Environment. A Case Study in Dubai, UAE****Felix Juzgado, M.E., Philip Slagle, P.E., and Dave Canfield, M.E., P.E., Applied Technology and Management, Inc., West Palm Beach, FL, Mount Pleasant, SC, and Dubai, UAE****11:25 a.m.****Water Quality Modeling Utilizing Conservative Tracers: Robinson Preserve Expansion Case Study, Manatee County, FL****Morjana Signorin, Zhifei Dong, Ph.D., and Doris Otero, Ph.D., APTIM, Boca Raton, FL, and Michelle Pfeiffer, P.E., and Thomas Pierro, P.E., D.CE, Coastal Protection Engineering, Boca Raton, FL**

11:45 a.m.

Direct Numerical Simulations of Sediment Transport due to Miniature Along-Shelf Current-Supported Turbidity Currents

Sahar Haddadian, Ph.D., E.I., Cummins Cederberg, Inc., Fort Lauderdale, FL

12:05 p.m.

WEDG, A New Tool in Resilient Waterfront Design

Danielle Irwin and Rebecah Delp, WEDG, Cummins Cederberg, Inc., Tallahassee, FL

12:25 p.m.

Adjourn

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USACE Jacksonville District



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FEDERAL PROJECT STATUS UPDATES – November 2020

PLANNING STUDIES:

Dade County Feasibility Study

The purpose of this study is to address protection of critical infrastructure, reduction of structure damages, and evacuation route protection in response to the risks and effects of coastal storms and associated impacts such as sea level rise, storm surge, and extreme wind and tidal effects. A waiver package for a 1-year time extension has been delivered to the Assistant Secretary of the Army for approval. This extension would push milestone dates back by 1 year and so the tentatively selected plan would be completed in August 2021.

South Atlantic Coastal Study

The South Atlantic Coastal Study (SACS) is a study authorized by the Water Resources Development Act (WRDA) 2016. This study will identify coastal risk and vulnerabilities due to hurricane and storm damage as a result of sea level rise in regions from North Carolina to Mississippi. This study is expected to take 4 years to complete and is expected to identify the reconnaissance-level analysis of coastal risk and vulnerability as well as potential solutions to be studied in greater detail in the future. The Tier 1 analysis for SACS, which includes a geoportal that shows risk for the coastal areas in the South Atlantic Division, has been completed. Work on the Tier 2 analysis, which focuses on more detailed analyses is being conducted.

Ft. Pierce Shore Protection Project

A General Re-evaluation Report (GRR) was completed by St. Lucie County and sent to Congress for approval. The approval of this GRR would extend federal participation for another 50 years. Additionally, a Project Cooperation Agreement (PCA) amendment with the local sponsor was completed on 20 August 2020, which extended the period of federal participation for 6 years.

Lee County Shore Protection Project – Gasparilla Island

The Lee County Shore Protection, Gasparilla Island Segment, has been approved by ASA(CW).

Pinellas County Shore Protection Project

The Pinellas County Feasibility Study is ongoing. The Tentatively Selected Plan was presented in May 2020. The team received comments from the general public during a review period which concluded on 4 September 2020. The PDT is addressing comments from the policy team and general public.

ENGINEERING AND DESIGN:

Brevard County North Reach

Brevard North Reach received funding from Congress in the Fiscal Year 2020 workplan. Plans and specifications are underway and the contract is expected to be advertised in September 2020. Construction will commence in November 2020 and is expected to be completed in April 2021.

Broward County Shore Protection Project - Segment II

The design of plans and specifications for Broward County SPP Segment II is underway. The schedule for the project has been revised. Award of the contract is expected to occur in December 2020.

Broward County Shore Protection Project - Segment III

The design of plans and specifications for Broward County SPP Segment III is underway. Award of the contract is expected to occur in February 2021. The county is currently obtaining a Water Quality Control permit, Environmental Assessment, and Biological Assessment in support of a Department of the Army permit.

Dade County Renourishment

There are separate contracts being prepared over the next 3 years. Contract A covers a truck haul project to Surfside Beach. Contract B is a truck haul to Miami Beach Hot Spots. Contract C is the renourishment of Bal Harbour. Contract D will cover Sunny Isles and Contract E will cover the remaining portion of Miami Beach. Contracts A and B construction have been completed. Contract C is expected to be awarded in April 2021 and Contract D is expected to be awarded in January 2021. Contract E is expected to be awarded in June 2021.

Flagler County Shore Protection Project

The design of the plans and specifications for the Flagler County Shore Protection Project are being development. Local sponsor is obtaining required perpetual real estate easements.

St. Johns County Coastal Storm Risk Management Project – Vilano and South Ponte Vedra

The design of the plans and specifications for the project are being developed. Contract was awarded to Great Lakes Dredge and Dock Corp. for \$15.2 million. Construction began in September 2020 and is expected to be completed in December 2020.

St. Lucie Coastal Storm Risk Management – South Segment

This is a new project that will be funded with funds from the supplemental bill. Plans and specifications were started in September 2018, however St. Lucie County has requested the project to be pushed back by 2

years due to concerns with real estate and the need to obtain the required non-federal funding. Advertisement for this contract is expected to occur in July 2021 with construction occurring in November 2021 and completing in April 2022.

CONSTRUCTION:

Brevard County South Reach

Brevard County South Reach contract was awarded on 20 September 2019 to The Dutra Group. South Reach has eroded significantly due to high tides and nor'easters and additional work funds may be required to complete the project. Beach placement was expected to begin in November 2020, with construction completing in April 2021.

Brevard County Mid Reach

The contract for Brevard County Mid Reach was awarded on 20 September 2019 to The Dutra Group. A revised request for proposal was sent to the contractor for additional volume quantities for Mid Reach due to erosion due to hurricane Dorian. Construction was completed in May 2020.

Brevard County Patrick Air Force Base (AFB)

The Patrick AFB Option was advertised with the Brevard Mid and South Reach contract and awarded to The Dutra Group on 20 September 2019. The project was paused in April 2020 due to Covid-19 impacts and is scheduled to resume in November 2020. Construction for Patrick AFB is expected to be completed in April 2021.

Ft. Pierce Shore Protection Project

Advertisement for the upcoming construction event was issued on 21 August 2020 and award occurred on 28 September 2020. The contract was awarded to Great Lakes Dredge & Dock Corp. for \$8.5 million. The notice to proceed will be delayed until December 2020 in order to attempt to avoid winter nor'easter storms during construction. Placement will begin in late January or early February 2021.

Manatee County Shore Protection Project

The nourishment of the Manatee County Shore Protection Project is underway. The contractor is expected to place approximately 800k cubic yards of material along Anna Maria Island. The contract was awarded to Marinex Construction Inc, on 9 April 2020 and construction began in July 2020. Additionally, Coquina beach, which is a non-federal segment, was combined into the contract with the expected placement of 235k cubic yards of material. A modification to the project to include dunes is being completed. This modification will result in the restoration of dunes in certain portions of the federal project.

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Palm Beach County Shore Protection Project

Jupiter Carlin: Construction completed on 17 March 2020.

Ocean Ridge: Construction completed on 27 March 2020.

Delray Beach: Construction completed on 13 March 2020.

North Boca Raton: Construction completed on 30 April 2020.

Mid-town: Construction completed on 15 May 2020.

Sarasota County - Lido Key

Construction contract was awarded on 19 March 2020 to Cottrell for \$12 million. Dredging began in August 2020. Preparation for groin construction is scheduled to begin late November 2020 with physical construction beginning in January 2021.

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FDEP Office of Resilience and Coastal Protection Updates



Beaches Program's Response Activities after Hurricane Sally

Beaches Field Services staff and district volunteers conducted windshield surveys from Gulf to Escambia counties to assess coastal impacts resulting from Hurricane Sally. Windshield surveys are used as a first look at impacted areas and assist the State Emergency Operation Center in determining most impacted coastal regions. They also aid the beaches damage assessment teams to determine the areas of most importance to assess first. Windshield surveys are as the term implies, quick spot assessments of typical hotspots or significant shoreline areas.

FDEP's Preliminary Post Storm Beach Windshield Survey Data are available from the Florida Emergency Operations Center.

The site includes the initial upload of data collected during the windshield surveys. Sharing is set to public so anyone can access the notes and photos collected at each survey location. Click on the Beaches tab along the top to see data collected at the post storm windshield survey sites represented by the red dots. Click on the dots for drop down text box with location, status and links to photographs.

The beaches damage assessment teams are comprised of staff members from the Coastal Engineering and Geology Program, the Beaches Field Services Program and the Beaches, Inlets and Ports Program. These teams conduct detailed assessments of all shoreline areas of impacted regions as well as within the coastal building zone. Damage assessment teams conducted assessments from Gulf to Escambia counties. The data and information from these assessments will be used to develop a preliminary hurricane report.

Lastly, staff from the Beaches, Inlets and Ports Program and the Beaches Funding Assistance Program conducted sand loss assessments of engineered beaches from Gulf to Escambia counties. These assessments are conducted in coordination with DEP's Office of Emergency Response and FEMA, as well as local sponsors. Assessments are intended to get a preliminary assessment of sand loss quantities from an engineered beach, which may be eligible for FEMA funding assistance to replace those losses.

Beaches, Inlets and Ports staff also met with representatives from the Florida Park Service, Bay County Tourist Development Council and its consultants, and the U.S. Army Corps of Engineers to assess damages to the beach and dune systems at St. Andrews State Park. Beaches, Inlets and Ports Program staff then continued with assessments of the federally authorized Panama City Beach Nourishment

Project with Corps staff and the Bay County TDC's consultant, which is scheduled to begin this winter and will restore the dune and beach of the park.

Beaches Funding Assistance Applications

The Florida Department of Environmental Protection received 41 beach management project applications and 13 inlet management project applications by the due date. Beach project requests by phase (Please note, there is some overlap as some projects may have multiple phases in a single application):

- 3 projects requesting feasibility funds
- 13 projects requesting design funds
- 22 projects requesting construction funds
- 17 projects requesting monitoring funds

Inlet project requests by phase (Please note, there is some overlap as some projects may have multiple phases in a single application):

- o 2 projects requesting feasibility funds
- o 3 projects requesting design funds
- o 6 projects requesting construction funds
- o 6 projects requesting monitoring funds

FY21/22 Beach Project Applications			
Total	Federal	State	Local
\$276,848,048.71	\$73,790,029.60	\$99,815,686.92	\$103,242,332.19

FY21/22 Inlet Project Applications			
Total	Federal	State	Local
\$21,093,368.00	\$325,000.00	\$13,301,672.00	\$7,566,696.00

Draft assessments were released Oct. 30, 2020, and local sponsor comments and signed resolutions are due Nov. 20, 2020. Final assessments will be released Nov. 30, 2020.

FDEP's Critically Eroded Beaches Report, July 2020

With 825 miles of sandy coastline, beach erosion in Florida is a statewide problem and the Florida Department of Environmental Protection is committed to assisting local communities protect and restore these critical shorelines. The department recently posted the Critically Eroded Beaches Report for 2020. This report identifies segments of shoreline which are designated as critically eroded and therefore eligible for state cost share for beach restoration.

Additional studies of shoreline conditions since Hurricane Irma (2017) have concluded that small segments in Collier County (0.6 mile), Flagler County (1.6 miles), and Sarasota County (0.7 mile) are now critical. Also, studies of shoreline changes in Franklin County (0.2 mile) since Hurricane Michael (2018) have concluded changes in both noncritical and critical areas. The 2020 report adds a total of 3.1 miles, bringing the total critically eroded beaches to 422.7 miles. For more information, visit the department's Critically Eroded Beaches website.

Butterflies of the Atlantic Flyway Beaches and Dunes are Pollinator Gardens

Fall is time to enjoy cool breezes and bright splashes of yellow, pink, red and orange at the beach, paraded not by fashionistas but by colorful migratory butterflies nectaring on fall blooming wildflowers. Florida's beaches and dunes are important stopovers for wildlife using the Atlantic Flyway, a route south for North American wildlife fleeing winter's cold for warmer climes in the Florida peninsula, Cuba and Central and South America. Open, sunny habitats of frontal dunes, dune swales and dune grasslands are home to fall blooming wildflowers.

Flower nectar from native beach dune plants fuel migratory butterflies, the three most conspicuous being the orange Gulf fritillary (*Agraulis vanillae*), yellow cloudless sulfur (*Phoebis sennae*), and red and black monarch (*Danaus plexippus*), an imperiled species that has established a resident population in South Florida secondary to the important wintering site in Mexico's mountains. Among the sea oats (*Uniola paniculata*) and other dune grasses, the passing butterflies easily spot and nectar on salt-tolerant dune wildflowers.

Good salt-tolerant wildflowers for the seaside pollinator garden include seaside goldenrod (*Solidago sempervirens*), saltbush (*Baccharis halimifolia*), frogfruit (*Phyla nodiflora*), Nuttall's thistle (*Cirsium nuttallii*), scarlet sage (*Salvia coccinea*), blanketflower (*Gaillardia pulchella*), beach vervain (*Glandularia maritima*), dune sunflower (*Helianthus debilis*) and morning glories (*Ipomoea* species). Healthy populations of flowering herbaceous native beach dune plants benefit the conservation.



Figure 1. Gulf fritillary, *Agraulis vanillae*, on yellowtops, *Flaveria* species.
Photograph courtesy of Donna Irby



Figure 2. Yellow sulfur butterfly, *Phoebis* species, on bullthistle, *Cirsium* species.
Photograph by Fritz Wettstein



Figure 3. Monarch butterfly, *Danaus plexippus*, on yellowtops, *Flaveria* species.
Photograph courtesy of Donna Irby.

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