



Greetings FSBPA Members and Friends

The holiday season is here and there's nothing more important than to say thank you for your support this year. With your support, we continued promoting the importance of healthy beaches and coastlines and hosting professional conferences despite the challenges of the pandemic. We also introduced seminars to take a deep dive into the most relevant legal topics affecting our work, as well as partnered with Resiliency Florida to host Florida's 1st resilience conference. It was a busy and rewarding year made possible because of your involvement, support, and patience.

Turning the page, we have several projects in the works for 2022 and will have more information about them in January's Shoreline, including a preview of the 2022 Legislative Session which convenes on January 11. But first we are very excited to announce that the 35th National Conference on Beach Preservation Technology conference program is here! Please take a few minutes to look over the program in this newsletter. It will not disappoint. It is chock-full of exceptional speakers - many of them first time presenters at the conference. There are tracks that include presentations on shoreline impacts and [Continued on next page](#)



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February 2-4
Embassy Suites-St. Augustine**
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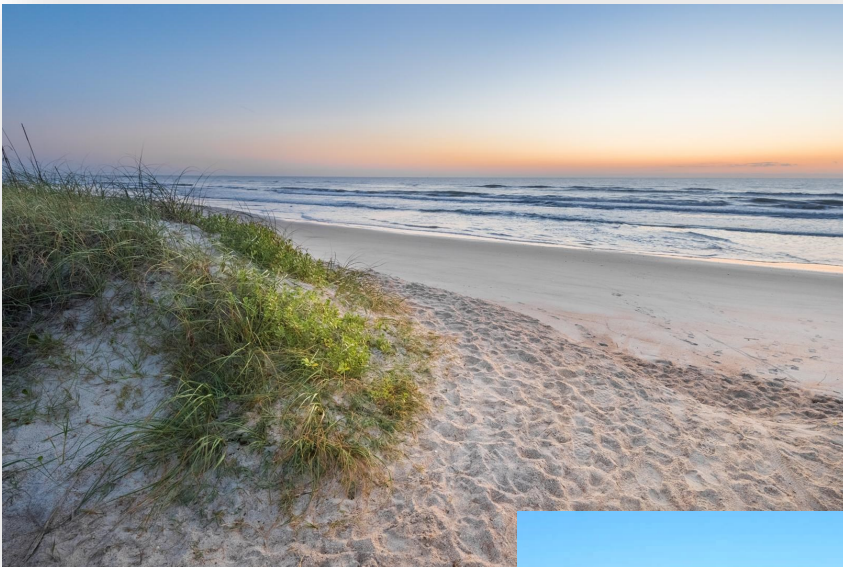
US Army Corps
of Engineers®

**Identifying Coastal Erosion
Solutions for Northern St. Johns
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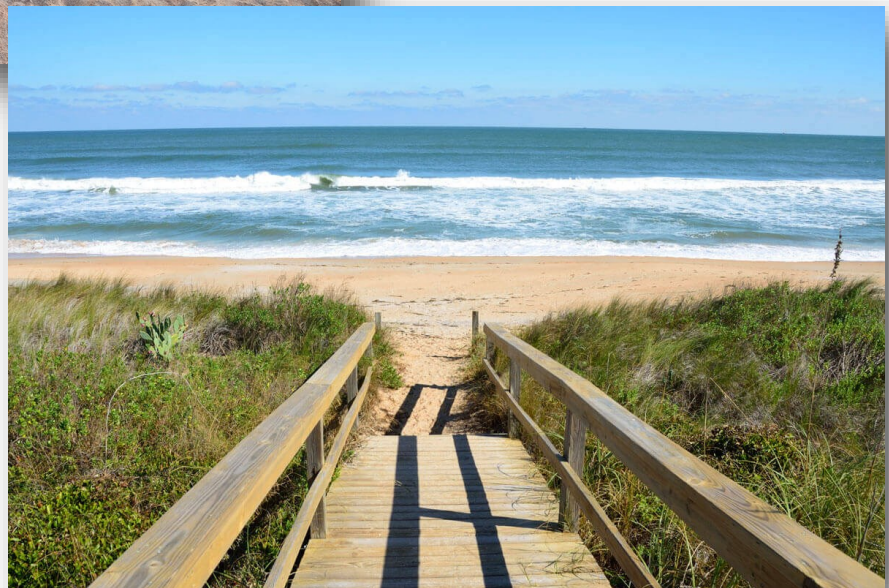
responses from coastal storms, coastal modeling, sand source management, resilience initiatives, living shoreline projects, the application of SARBO, marine turtle nesting studies, and discussions on a wide range of approaches to managing beaches, dunes, and inlets. There are so many great talks planned, and they will all be recorded so you don't have to miss any of them!

Be sure to make your plans to join us in St. Augustine. Hotel rooms at the [Embassy Suites](#) are offered at conference rates through January 7th or as long as rooms remain in the block, so do not delay – make your hotel reservation early. Conference registration is open – [register](#) by January 7th and save. [Sponsorships and exhibit spaces](#) are still available. We can't wait to see you there.

Please reach out to us if you have questions or comments to share. We always enjoy hearing from our members. Until then, have a joyous and safe holiday season.



Anastasia State Park



2022 Tech Conference DRAFT Program
February 2-4 ♦ Embassy Suites by Hilton St. Augustine Beach

Wednesday, February 2, 2022

DRAFT PROGRAM

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.

St. Johns County, FL Hurricanes Matthew and Irma FEMA Emergency Berm Restoration Project

Damon Douglas and Stephen Hammond, St. Johns County Public Works Department, St. Augustine, FL, Thomas Gillespie, Michael Barnett, P.E., D.CE, and Melissa Burns, P.E., GHD, Savannah, GA, Mobile, AL, and Orlando, FL, Mark Zanardi, and David Juelle, Patrick Kenning, and Jon Neiman, CHC, Miami, FL, St. Augustine, FL and Brunswick, GA

1:30 p.m.

Shell Hash: A Nature Based Solution for Beachfront Coastal Resiliency in St. Johns County?

Camden Dean and William Dally, Ph.D., P.E., University of North Florida, Jacksonville, FL

1:50 p.m.

Incorporation of Dunes into Federal Projects

Will Reilly, P.E., U.S. Army Corps of Engineers, Jacksonville District, FL

2:10 p.m.

FDEP's Annual Inlet Report

William "Guy" Weeks and Greg Garis, Florida Department of Environmental Protection, Tallahassee, FL

2:30 p.m.

The Tragedy of Hurricane Ida and the Triumph of Louisiana's Barrier Islands

Michael Poff, P.E., Coastal Engineering Consultants, Inc., Bonita Springs, FL

2:50 p.m.

A Tribute to Honor Scott Liggett, Presented by Chris Creed

3:00 p.m.

Professional Exchange Break (30 Minutes)

3:30 p.m.

Presentation of the FSBPA 2021 Richard E. Bonner – Jacqueline J. Keiser Award to Matthew Schrader

3:40 p.m.

The South Amelia Island Shore Stabilization Project: Project Maintenance and Borrow Area Development at Nassau Sound

Albert Browder, Ph.D., P.E., D.CE, Steven Howard, P.E., D.CE, William Hobensack, P.E., and Sergio Peña, Olsen Associates, Inc., Jacksonville, FL

4:00 p.m.

Engineering with Nature: Mangroves in Green-Gray Systems for Overtopping Reduction

Tori Tomiczek, Ph.D., United States Naval Academy, Annapolis, MD, Dan Cox, Ph.D., Pedro Lomonaco, Ph.D., Kayla Ostrow, and William Mitchel, P.E., Oregon State University, Corvallis, OR, Esteban Biondi, P.E., Applied Technology and Management, Inc., West Palm Beach, FL, and Kiernan Kelty, CBE Eco Engineering, Santa Cruz, CA

4:20 p.m.

Navigating Barriers: Planning Civil Works Projects with Coordination of the Coastal Barriers Resources Act (CBRA)

Michael Ornella II, U.S. Army Corps of Engineers, Jacksonville District, FL

4:40 p.m.

The 2021 Longboat Key Beach Construction Season Part II (The Technical Side)

Krista Egan, P.E. and Albert Browder, Ph.D., P.E., D.CE, Olsen Associates, Inc., Jacksonville, FL and Charles Mopps, Town of Longboat Key, FL

5:00 p.m.

Adjourn

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Thursday, February 3, 2022

CONCURRENT SESSION A-1

8:05 a.m. to 9:45 a.m.

8:05 a.m.

Examining Sediment Properties of Various Borrow Sources and the Potential Influences on Sea Turtle Nesting and Hatching Success

Raquel Valdes, Master's Candidate, Florida Atlantic University, Boca Raton, FL

8:25 a.m.

Sea Turtle Nesting and Beach Dynamics: A Case Study on Three Southeast Florida Beaches

Ping Wang, Ph.D., University of South Florida, Tampa, FL, Robbin Trindell, Ph.D., Sarah Burke, Colin Shea, and Tomo Hiramasa, Florida Fish and Wildlife Conservation Commission, Tallahassee, FL, and David Thompson and Rangley Mickey, U.S. Geological Survey, St. Petersburg, FL

8:45 a.m.

Sedimentology and Beach Substrate Temperature Influences on Sea Turtle Nesting

Jyothirmayi Palaparathi, Ph.D. Student and Tiffany Roberts Briggs, Ph.D., Department of Geosciences, Florida Atlantic University, Boca Raton, FL

9:05 a.m.

Interpretation to Implementation: Putting the Updated Model Lighting Ordinance for Sea Turtle Protection into Practice
Stacey Gallagher, Sea Turtle Conservancy, Gainesville, FL

9:25 a.m.

East Naples Bay – Dredging and Rock Removal Project

Matthew Starr, P.G. and Jeff Tabar, P.E., D.CE, Stantec Consulting Services, Laurel, MD, and Gregg Strakaluse, P.E., City of Naples, FL

9:45 a.m.

Professional Exchange Break (30 Minutes)

CONCURRENT SESSION B-1

8:05 a.m. to 9:45 a.m.

8:05 a.m.

How Well Have Florida Inlet Management Plans Worked to Continue Sand Flow?

James Houston, Ph.D., U.S. Army Engineer Research and Development Center, Vicksburg, MS

8:25 a.m.

South Lake Worth Inlet: Life Cycle of an IMP Update

Dave Swigler, P.E., Department of Environmental Resources Management, Palm Beach County, FL and Ty Amorosano and Guy Weeks, Florida Department of Environmental Protection, Tallahassee, FL

8:45 a.m.

Innovative Systems-Approach to Understanding Southeast Florida's Navigation and Coastal Storm Risk Management Projects and Identifying Solutions to Increase Coastal Resiliency and Regional Sediment Management

Laurel Reichold and Drew Condon, Ph.D., P.E., U.S. Army Corps of Engineers, South Atlantic Division and Jacksonville District, FL

9:05 a.m.

Evolution of the Federal Standard: Implications for RSM Implementation

Clay McCoy, Ph.D., U.S. Army Corps of Engineers, Jacksonville District, FL

9:25 a.m.

Numerical Modeling in Support of the St. Lucie Inlet Sediment Budget

John Ramsey, P.E., Matthew Doelp, P.E., and Sean Kelley, P.E., Applied Coastal Research and Engineering, Inc., Mashpee, MA, Stacey Roberts, Atkins, Sarasota, FL, and Kathy FitzPatrick, P.E. and Jessica Garland, Martin County, Stuart, FL

9:45 a.m.

Professional Exchange Break (30 Minutes)

Thursday, February 3, 2022

CONCURRENT SESSION A-2

10:15 a.m. to 11:55 a.m.

10:15 a.m.

The Brevard County Shore Protection Project: A Novel Approach
Patrick Snyder, P.E., U.S. Army Corps of Engineers, Jacksonville District, FL

10:35 a.m.

2021 Phipps Beach Nourishment and Dune Construction, A Case Study in Sand Stockpiling and Beach/Dune Joint Construction
Michael Jenkins, Ph.D., P.E., ATM, a Geosyntec Company, West Palm Beach, FL and Robert Weber, Town of Palm Beach, FL

10:55 a.m.

Kennedy Space Center Dune Restoration
Peter Seidle, P.E., ATM, a Geosyntec Company, West Palm Beach, FL and Kim Rivera, P.E., Jones Edmunds, Titusville, FL

11:15 a.m.

2021 Captiva Island Beach Renourishment Project
Nicole Sharp, P.E., APTIM, Boca Raton, FL, Daniel Munt and Jennifer Nelson, Captiva Erosion Prevention District, Captiva, FL, and Thomas Pierro, P.E., D.CE, Coastal Protection Engineering, Boca Raton, FL

11:35 a.m.

A History of Nourishment on Sand Key and a Glimpse at the Future
John Bishop, Ph.D., Environmental Management Division, Pinellas County, Clearwater, FL

12:00 p.m.

Lunch (1 Hour)

CONCURRENT SESSION B-2

10:15 a.m. to 11:55 a.m.

10:15 a.m.

Ecological Function and Recovery of Canaveral Shoals
Jennifer Bucatari, Ph.D., Marine Minerals Program, Bureau of Ocean Energy Management, Sterling, VA

10:35 a.m.

Overview of Collaboration Efforts Between the BOEM Gulf of Mexico Region Marine Minerals Program and Regional Partners
Jennifer Steele, Ph.D., Marine Minerals Program, Bureau of Ocean Energy Management, New Orleans, LA

10:55 a.m.

Integrating, Disseminating, and Visualizing Marine Minerals Information Products at the National Scale to Support Resilient Coastal Communities
Lora Turner and Kerby Dobbs, Marine Minerals Program, Bureau of Ocean Energy Management, Sterling, VA, Alexa Ramirez, Quantum Spatial, St. Petersburg, FL, and Ariel Kay, Bureau of Ocean Energy Management, New Orleans, LA

11:15 a.m.

The Marine Minerals Program: Informing Long-Term Restoration Planning Through Resource Management
Jessica Mallindine, Marine Minerals Program, Bureau of Ocean Energy Management, New Orleans, LA

11:35 a.m.

The Marine Minerals Program: Informing Management Decisions Through Innovative Science
Ana Rice, Ph.D., Marine Minerals Program, Bureau of Ocean Energy Management, New Orleans, LA

12:00 p.m.

Lunch (1 Hour)

Thursday, February 3, 2022**CONCURRENT SESSION C-1**

1:00 p.m. to 3:00 p.m.

1:00 p.m.

Quantifying Storm Impacts on a Coastal Dune using UASs: A Case Study of Hurricane Dorian in the Bahamas

Leonard Barrera Allen, P.E., Cummins Cederberg, Inc., South Miami, FL

1:20 p.m.

Variations in Post-Storm Assessment Methodologies with a Look Forward to Concepts for the Future

Thomas Pierro, P.E., D.CE, Coastal Protection Engineering, Boca Raton, FL

1:40 p.m.

South Florida's Growing Need for Mitigation Reefs and Sand Resources – How Can We Make it Work?

Barbara Nist, P.G. and Matt McClellan, Ph.D., U.S. Army Corps of Engineers, Jacksonville District, FL

2:00 p.m.

A Little More Permanent: Monitoring Update of the Upham Beach Stabilization Project

Zachary Westfall, Environmental Management Division, Pinellas County, Clearwater, FL

2:20 p.m.

When a Project Performed Better than Expected – Beach Nourishment at Sagaponack and Bridgehampton, Town of Southampton, Long Island, New York

Haiqing Liu Kaczkowski, Ph.D., P.E. and Timothy Kana, Ph.D., P.G., Coastal Science & Engineering, Columbia, SC and Aram Terchunian, First Coastal Consulting Corporation, Westhampton Beach, NY

2:40 p.m.

Getting the Most Out of Monitoring and Modeling Data: Designing for the 1st Re-Nourishment of the Multi-Town Project in Dare County, NC

Ken Willson and Adam Priest, P.E., Coastal Protection Engineering, Wilmington, NC

3:00 p.m.

Professional Exchange Break (30 Minutes)**CONCURRENT SESSION D-1**

1:00 p.m. to 3:00 p.m.

1:00 p.m.

The Engineering Analytics Behind FDEP's New SLIP Tool

Angela Schedel, Ph.D., P.E., Taylor Engineering, Inc., Jacksonville, FL and Alex Reed, Director, Office of Resilience and Coastal Protection, Florida Department of Environmental Protection, Tallahassee, FL

1:20 p.m.

County-Wide Baseline Coastal Analysis and Coastal Resilience Planning

Jenna Phillips, Taylor Engineering, Sarasota, FL

1:40 p.m.

Implementing a Model-based Coastal Adaptation Framework at Captiva, FL

Cheryl Hapke, Ph.D. and David Revell, Ph.D., and Matt Jamieson and Craig Jones, Ph.D., Integral Consulting, St. Petersburg, FL and Santa Cruz, CA

2:00 p.m.

Martin County Four Mile Beach Resilience

Wendy Laurent, P.E. and Angela Schedel, Ph.D., P.E., Taylor Engineering, Philadelphia, PA and Jacksonville, FL, and Kathy FitzPatrick, P.E. and Jessica Garland, Martin County, Stuart, FL

2:20 p.m.

Static vs. Dynamic Sea Level Rise Inundation Mapping in Hollywood, Florida

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

2:40 p.m.

Analyzing the Impact of Extreme Waves on Wave Loads and Overtopping Rates on Piers

Edwin Rajeev and Alberto Canestrelli, Ph.D., University of Florida, Gainesville, FL and Leonard Barrera Allen, P.E., Cummins Cederberg, Inc., South Miami, FL

3:00 p.m.

Professional Exchange Break (30 Minutes)

Thursday, February 3, 2022**CONCURRENT SESSION C-2****3:30 p.m. – 5:10 pm****3:30 p.m.****Waves, Sand, and Hardbottom****Douglas Mann, P.E., D.CE., APTIM, Boca Raton, FL****3:50 p.m.****The Role of Infragravity Waves in Coastal Processes with Numerical Modeling Results from Southwest France Compared to Potential Applications along Florida's Atlantic Coast****Dylan Nestler, P.E., Coastal Protection Engineering, Boca Raton, FL and Volker Roeber, Ph.D., Université de Pau et des Pays l'Adour****4:10 p.m.****Measurement and Modeling of Wave Transformation Over Nearshore Hardbottom****Prince Yadav and William Dally, Ph.D., P.E., University of North Florida, Jacksonville, FL and Daniel Osiecki, Sontek, Inc., Melbourne, FL****4:30 p.m.****The Role of Numerical Modeling in Resiliency Studies: Using Delft3D Flexible Mesh to Evaluate Flooding and Sea Level Rise Adaptation Strategies in Florida, North Carolina, and Louisiana**
Lindino Benedet, Ph.D. and Akash Sahu, Coastal Protection Engineering, Boca Raton, FL**4:50 p.m.****Talbert Channel and Huntington Beach Channel Sheet Pile Repair Project, Orange County, CA****Victor Tirado, P.E. and Satish Chilka, P.E., GHD, Inc., Hilton Head, SC and Concord, CA, and Amit Verma, Orange County Flood Control District, CA****5:10 p.m.****Adjourn****CONCURRENT SESSION D-2****3:30 p.m. – 5:10 pm****3:30 p.m.****The Importance of Site-Specific Wave Data Collection in Conducting Beach Erosion Pathology****William Dally, Ph.D., P.E., Surfbreak Engineering Sciences, Ponte Vedra Beach, FL, Yong Chen, Ph.D., P.E., and Timothy Blankenship, P.E., Moffatt and Nichol, Inc., Norfolk, VA and Miami, FL****3:50 p.m.****Opportunities for Borrow Area Reuse at Hilton Head Island, SC****N. Zachary Bedell, P.E. and Chris Creed, P.E., D.CE, Olsen Associates, Jacksonville, FL****4:10 p.m.****Sustaining the Nassau County Shoreline through Maintenance Dredging of the Naval Submarine Base Kings Bay Entrance Channel****Jennifer Coor, Ph.D., P.G., Viktoria Bogina, and Mike Hollingsworth, U.S. Army Corps of Engineers, Jacksonville District, FL****4:30 p.m.****Analyzing Changes in the Exceedance of Water Level Thresholds in Coastal Tide Gages within FDOT's District 1 Counties****Sahar Haddadian, Ph.D. and Leonard Barrera Allen, P.E., Cummins Cederberg, Inc., Ft. Lauderdale and South Miami, FL****4:50 p.m.****Atlantic Intracoastal Waterway (AIWW) Sediment Sampling and Analysis****Thomas Gillespie and Nicholas Bragaia, GHD, Inc., Savannah, GA and Wellington, FL; Anna Godfrey and Erica Janocha, U.S. Army Corps of Engineers, Savannah District; GA, David Perkey and Danielle Tarpley, Coastal Hydraulics Laboratory, U.S. Army Engineer Research and Development Center, Vicksburg, MS; Neil Wicker, Athena Technologies, McClellanville, SC; and Marc Gutterman, Hana Engineers, Norfolk, VA****5:10 p.m.****Adjourn**

Friday, February 4, 2022**CLOSING GENERAL SESSION****8:05 a.m. to 12:05 p.m.****8:05 a.m.****Application of the USACE International Guidelines on Natural and Nature-Based Features for Beaches and Dunes****Chris Mack, P.E., D.CE, PMP and Jeff Tabar, P.E., D.CE, Stantec Consulting Services, North Charleston, SC and Laurel, MD****8:25 a.m.****Developing a List of Approved Equivalent Living Shoreline Products****Casey Connor, P.E. and Josh Carter, P.E., Mott MacDonald, Jacksonville, FL and Austin, TX, and Micaela Coner, PMP, Louisiana Coastal Protection and Restoration Authority, Baton Rouge, LA****8:45 a.m.****Coastal Conditions Analysis for Audubon Islands Living Shoreline Projects, Pinellas County, FL****Bryan Flynn, P.E., Tom Ries, Tiffany Cheng, P.E., and Yashar Rafati, Ph.D., Environmental Science Associates, Tampa, FL, Mark Rachal, Audubon Florida, Tampa, FL, and Erik Madsen, P.E., Landon, Moree & Associates, Palm Harbor, FL****9:05 a.m.****Cedar Island Stabilization and Marsh Construction****Todd DeMunda, P.E. and Jeff Tabar, P.E., D.CE, Stantec Consulting Services, Rockledge, FL and Laurel, MD and Christopher Hein, Department of Physical Sciences, Virginia Institute of Marine Science, Gloucester Point, VA****9:25 a.m.****Seagrass Mitigation Through Wind Wave and Boat Wave Reduction****Erin Hodel and Mark Fonseca, Ph.D., CSA Ocean Sciences Inc., Stuart, FL and Phillip Todd, Atlantic Reefmaker, Wilmington, NC****9:45 a.m.****A Review of Nearshore Hardbottom Edge Spatial Variability and Classification of Associated Benthic Communities in Broward County, Florida****Greg Ward, Cheryl Miller, and Angela Delaney, Coastal Eco-Group, Deerfield Beach, FL and Jessica Ward, Environmental Planning and Community Resilience Division, Broward County, FL****10:05 a.m.****Professional Exchange Break (30 Minutes)****10:35 a.m.****Florida Coastal Regulation – A Line in the Sand****Brett Moore, P.E., D.CE, Humiston & Moore Engineers, Naples, FL****10:55 a.m.****Beach Nourishment – Data, Risks, & Planning from a Contractor’s Perspective****Kristen Kelley, P.E., Manson Construction Company, Jacksonville, FL****11:15 a.m.****Evolution and Future of Dredging Projects from an Environmental Standpoint: A 2020 South Atlantic Regional Biological Opinion (SARBO) Perspective****Kristen Donofrio, U.S. Army Corps of Engineers, Jacksonville District, FL****11:35 a.m.****2020 SARBO: Applying Johnson’s Seagrass Project Design Criteria to Civil Works Projects****Paul DeMarco, U.S. Army Corps of Engineers, Jacksonville District, FL****11:55 a.m.****The 2020 South Atlantic Regional Biological Opinion (SARBO) and How it Applies to Dredge and Fill Projects on the East Coast of Florida****Stacy Buck, Coastal Protection Engineering, Boca Raton, FL and Linda Knoeck, U.S. Army Corps of Engineers, Palm Beach Gardens, FL****12:15 p.m.****Adjourn**



*35th National Conference on
Beach Preservation Technology*

February 2-4, 2022 - St. Augustine Embassy Suites

Conference Registration and Hotel Reservations

Register Now!

Hotel Reservations



Embassy Suites by Hilton St. Augustine Beach Resort

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Update to the FWCC Imperiled Species Guidelines



Photos courtesy of Florida Fish and Wildlife Conservation Committee

The Florida Fish & Wildlife Conservation Commission is developing species conservation measures and permitting guidelines for all species included in [Florida's Imperiled Species Management Plan](#). As discussed in the October Shoreline, FWC is working on guidelines for state threatened imperiled beach-nesting birds (IBNB), including the American oystercatcher, snowy plover, black skimmer, and least tern. Public workshops were held in September and October to collect public comments. FWC posted a revised version of the draft Species Conservation Measures and Permitting Guidelines for imperiled beach-nesting birds on their website: <https://myfwc.com/wildlifehabitats/wildlife/species-guidelines/>

The draft guidelines will be presented to Commissioners at the [December 2021 Commission Meeting](#) for feedback and direction on how to proceed with stakeholder engagement. Please stay tuned for updates on this effort.

FDEP Office of Resilience and Coastal Protection Updates December 2021



Florida Resilient Coastlines Program

The passage of Senate Bill 1954/House Bill 7019 last session initiated implementation of the new Resilient Florida Program within the Office of Resilience and Coastal Protection (<https://www.flsenate.gov/Session/Bill/2021/1954/BillText/er/HTML>).

This landmark legislation provides the framework and funding to assist communities around the state as they plan for and adapt to sea level rise, flooding and the potential for increasingly severe weather. In our efforts to fill 25 new positions appropriated for this program, we received hundreds of applications. Knowing that the keystone of a strong program is a strong group of leaders, we have filled management positions as a first step. Unfortunately, Whitney Gray has already left us for the private sector. We are continuing to fill the other positions.

See the Program's website for contact information.

Program Management Director: Diane Quigley, AICP, MURP

Diane Quigley brings 33 years of experience in local, state and private sector planning. She specializes in strategic planning, policy development, program management, grant administration, environmental land use and transportation planning. Her experience includes work as a local government planner, a research associate with the University of South Florida, and as a private sector engineering and planning consultant.

She previously served the state of Florida as an Environmental Program Manager, Intergovernmental Programs Manager, and administrator for the Florida Department of Transportation. During that time, she focused on program management, transportation policy, and the mitigation of environmental and community impacts associated with transportation systems.

As the Director of Strategic Initiatives for the Florida Department of Corrections, she managed the Risk Management Program and was instrumental in coordinating the agency's efforts in damage assessment and rebuilding critical infrastructure after Hurricane Michael. She has a Bachelor of Science in Geology from Nicholls State University and a Master of Urban and Regional Planning from the University of New Orleans.

Geographic Information Systems Administrator: Jeohusua Lugo

Jeohusua Lugo graduated with a Bachelor of Science in Land Surveying and Mapping from the University of Puerto Rico in 2013. He has been working with DEP since 2015. His position in the GIS and Mapping Support Program has positively impacted the programs within the Office of Resilience and Coastal Protection and the Division of Water Resource Management. His programming skills have resulted in time-saving and innovative solutions to regulatory and management challenges.

Grant Management Administrator: Hanna Tillotson

Hanna Tillotson has been with the department for over five years, most recently as the Beach Management Funding Assistance Program Manager and previously with the Apalachicola National Estuarine Research Reserve. She will get the new grant management section on its feet while continuing to guide the beaches grant program through this transition.

Before joining DEP, Hanna worked in the fisheries management and estuarine research fields. She received her Master of Science in Ecology at Florida State University and a Bachelor of Science in Marine Biology at the University of North Carolina at Wilmington.

Planning and Policy Administrator: Eddy Bouza

Eddy Bouza transitions into the new Resilient Florida program from the Florida Division of Emergency Management where he served as Deputy State Floodplain Manager in the Mitigation Bureau. In this role, Eddy served communities in Florida's National Flood Insurance Program Coordinating Office by providing technical assistance to floodplain managers, real estate agents and contractors. Eddy currently serves on the Florida Floodplain Management Association board as the "Champion of Leveraging" in the organization's three-year strategic plan initiative.

Previously, Eddy worked with Collier County as a zoning planner and later as the permitting supervisor for the Growth Management Department. He served as an inspector and as a plans examiner for the Florida Department of Business and Professional Regulation's Division of Hotels and Restaurants. Eddy earned a Bachelor of Science from Florida State University in Biological Science and is currently pursuing a Master of Public Administration from FSU.

Budget Administrator: Ashley Larson

Ashley Larson has worked for the state of Florida since 2017, most recently serving as Health Financial Manager in Contract Disbursements at the Florida Department of Health. Ashley graduated from Florida State College at Jacksonville with a Bachelor of Science in Supervision and Management.

Resilience Grants

The Resilient Florida program staff has evaluated and ranked approximately 300 eligible infrastructure projects for the Fiscal Year 2022-23 Statewide Flooding and Sea Level Rise Resilience Plan, in addition to the Resilient Florida American Rescue Plan Act of 2021 (ARPA) funding list. The plan and ARPA list will be submitted to the Legislature on Dec. 1, 2021, for its consideration.

Staff received applications from regional resilience entities (RRE), as per legislation, and are in the process of initiating these grants with the sponsor cities and counties. The RREs will have until July 1, 2022, to expend these funds. Staff is currently reviewing and evaluating planning grant applications and will be coordinating with selected cities or counties to initiate grants for vulnerability assessments and related planning studies.

A rule for the Statewide Flooding and Sea Level Rise Resilience Plan is under development, and staff will begin scheduling public meetings and workshops in January 2022. For more information on the rule development, [please sign up on the website to receive notices](#).

Beach Management Funding Assistance Program

Michael Isaacson is the new Environmental Administrator and is responsible for leading the beach management funding program. He has worked in a variety of positions with the State Revolving Fund since 2007, including ranking, scoring and reconciling projects and project funding. He served as the Information Technology Workgroup Representative for the Division of Water Resource Assistance and is a Florida Certified Contract Manager.

Bashia L. Marks is the new Project Manager for the southwestern counties beach projects. These counties include Manatee, Sarasota, Charlotte, Lee and Collier. She worked in the Petroleum Restoration Program as a Site Manager and in the Division of Environmental Assessment and Restoration as a Watershed Information Network Coordinator.

Mike Carothers has joined the Beach Management Funding Assistance group. Mike was with DEP's Bureau of Beaches and Coastal Systems Joint Coastal Permit program from 2008 through 2012, handling deep-water port permitting. He is returning to the department after stints with the U.S. Army Corps of Engineers regulatory program in Palm Beach Gardens and in the private sector in Houston working in wetland and coastal resource management.

Beach Management Funding News

The final beach and inlet project assessments for the Beach Management Funding Assistance Program's FY 2022-23 Local Government Funding Request (LGFR) are completed and posted on the department's [Public Files webpage](#).

The department received a total of 36 beach project applications and eight inlet project applications. Funding requests have been evaluated based on eligibility in Chapter 161, Florida Statutes (F.S.); ranking criteria in Rule 62B-36, Florida Administrative Code; appropriateness of the proposed project phase and funding request; and readiness to proceed. The total state share request for all final beach and inlet projects is approximately \$58.65 million.

Program staff continues to work with local governments to encumber FY 2021-22 funds for the projects on approved lists. Section 161.101(22), F.S., (effective July 1, 2021 through July 1, 2022) further authorizes the department to waive or reduce the local match requirements for beaches impacted by hurricanes or other storm events within communities with a per capita annual income that is less than the state's per capita annual income, as shown in the most recent release from the Bureau of the Census of the U.S. Department of Commerce.

Projects eligible for a waived local match requirement include the Mexico Beach Restoration Project, Alligator Point Beach Restoration Project and St. Joseph Peninsula Nourishment Project. The project funding requests were evaluated, ranked and included in the FY 2021-22 LGFR report.

In addition, provisions were made for projects on lands managed by the state of Florida. A prioritized list of projects is:

- ◆ Florida Keys State Parks Curry Hammock, Fort Zachary Taylor, Bahia Honda and Long Key: Beach nourishment to repair storm erosion damage from Hurricane Irma and subsequent tropical storms. Previous beach nourishment was conducted after hurricanes impacted the parks in 2004 and 2005.
- ◆ St. Joseph Peninsula State Park: Dune restoration to supplement the beach fill placement that closed the breach of the peninsula caused by Hurricane Michael. The dune restoration will enhance storm protection at the breach location, protect park infrastructure, and restore adjacent dunes that were significantly eroded while the breach partially infilled in the months after the hurricane.
- ◆ Perdido Key State Park: Dune restoration to repair storm erosion damage from Hurricane Sally. The existing eroded dune conditions will be assessed to determine the volume of sand placement along discreet segments to assist recovery of the park's dune system. The condition of the dune varies along the 9,000 feet of park shoreline, and selective placement of sand is necessary to avoid disturbance of Perdido Key beach mouse habitat.
- ◆ Henderson Beach State Park: Dune restoration to repair storm erosion damage from Hurricane Sally. This segment of beach is adjacent to the Destin/Western Walton County Beach Restoration Project completed in 2007.
- ◆ Anastasia State Park: Dune restoration to repair storm erosion damage from hurricanes Matthew and Irma. The sand source and proposed location for dune restoration will be assessed, and regionalization with the adjacent federal navigation project and shore protection project may be pursued.
- ◆ Mizell-Johnson State Park: Preliminary engineering analysis to determine the potential benefits of additional groins if constructed after completion of the Port Everglades Entrance Sediment Impoundment Basin and the initiation of a regular inlet sand bypassing program.
- ◆ North Peninsula State Park: Coastal resiliency study where the beach is designated critically eroded due to the loss of wildlife habitat and threat to State Road A1A.
- ◆ Big Talbot Island State Park: Conduct an inlet management study and evaluate regional sediment management alternatives to address significant beach and dune erosion that threatens maritime forest and cultural resources.
- ◆ Little Talbot Island State Park: Supplemental funding for construction by the U.S. Army Corps of Engineers of an erosion control structure receiving federal funding under the Section 111 Continuing Authorities Program. The island has experienced significant beach erosion that has closed the park's large south parking area and beach facilities and threatens gopher tortoise habitat.

- ◆ Honeymoon Island State Park: Engineering, design and permitting of an additional groin to protect the park's large south parking area and beach facilities. Construction of the existing groins and periodic beach nourishment has provided storm protection of the north parking area. An additional groin is expected to enhance the longevity of the beach nourishment to the south.
- ◆ Caladesi Island State Park: An inlet management study of Hurricane Pass combined with a coastal resiliency study of the park to determine regional sediment management strategies. Portions of the island have experienced beach erosion to such a degree that wildlife habitat is lost or threatened. This study may be combined with the engineering and design task for Honeymoon Island that uses Hurricane Pass as a sand source.

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Identifying Coastal Erosion Solutions for Northern St. Johns County, FL



US Army Corps of Engineers®

On April 19, 2021 the Jacksonville District and St. Johns County signed the Feasibility Cost Share Agreement (FCSA) to kickoff study efforts for the North Ponte Vedra Coastal Storm Risk Management (CSRМ) study. The FCSA outlines the overall objectives of the study along with the specific roles and responsibilities for the Federal government and the non-Federal sponsor to ensure the study is successful and economically justified. At a cost not to exceed \$3 million, split 50% Federal and 50% non-Federal each of these studies must be completed within 3 years from signing of the FCSA. The “completion” of each study is marked by the signing of the Chief of Engineers Report in USACE Headquarters (current 55th Chief of Engineers LTG Scott A. Spellmon) which eventually makes it way to Congress for authorization in a future bill.

North Ponte Vedra CSRМ like other coastal studies throughout the United States will be evaluated in four separate phases with five major milestones over the course of the 3-year study. As shown in Figure 1 below, these include Initial Scoping (identifying the problems and opportunities for the geographic area), Alternative Evaluation and Analysis (developing multiple alternatives that could address the sponsors concerns), Feasibility-Level Analysis (determine which alternative has the highest net economic benefits to the nation and lowest environmental impacts). The five major milestones include development of the selected plan (TSP) and then several levels of evaluation and approval by USACE leadership leading to the official signing of the completed report marking the completion of the report.

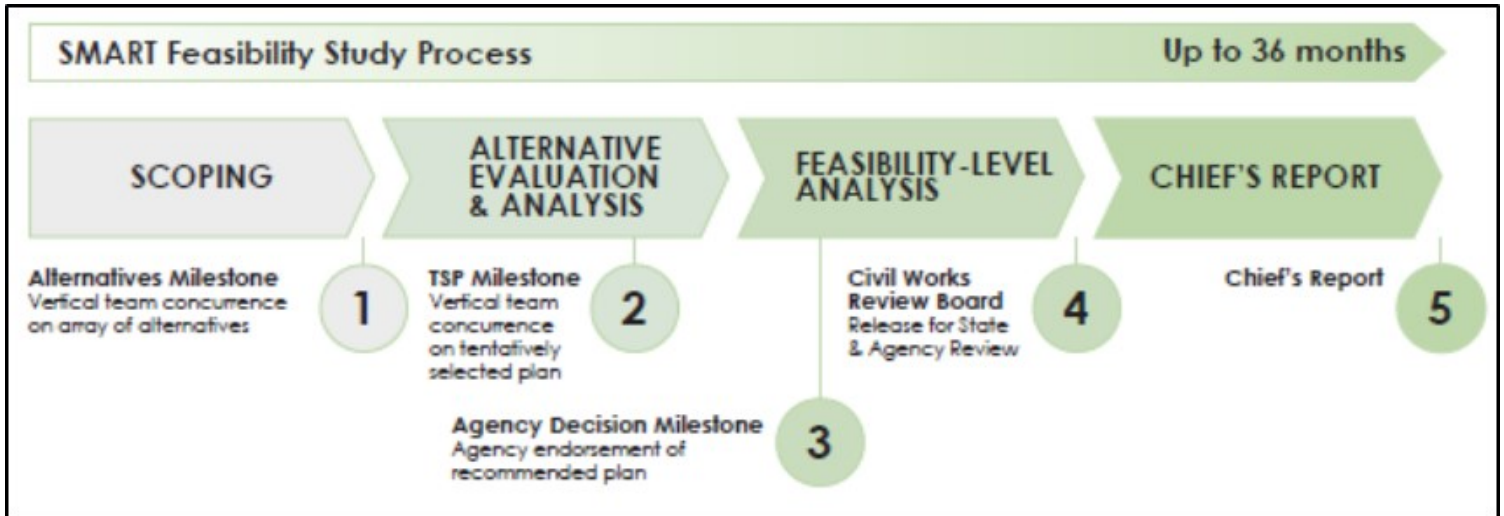


FIGURE 1: THE SMART PLANNING PROCESS IDENTIFYING THE FOURT PHASES AND FIVE MAJOR MILESTONES

One common misconception in the early stages of a feasibility study like North Ponte Vedra is the immediate need to refine the project area based on public access and parking. USACE policy dictates that Federal participation in shore stabilization efforts is conditioned on the provision of reasonable public access. It's important to note that coastal studies first identify potential for "Federal interest," meaning the damages and potential benefits of the eroded shoreline could generate a positive benefit to cost ratio (BCR) and therefore an "interest" to the taxpayers of the United States. Once this effort is completed and the length of "eligible shoreline" is identified, it's from this point that discussions of public parking/access are generated for Federal cost share participation. The maximum cost share for initial construction is 65% Federal and 35% non-Federal, for renourishments the cost share is adjusted to 50% Federal and 50% non-Federal. These are the "maximum" Federal limits and will be reduced for shoreline that doesn't meet the Corps Parking & Access Policies contained in Engineering Regulation 1165-2-130. It's also important to note that not all alternatives considered require parking/access such as non-structural measures and floodproofing considerations.

The study process outlined above will be followed as the Jacksonville District evaluates the eroded shoreline of northern St. Johns County which includes the areas of North Ponte Vedra Beach, the Guana Tolomato Matanzas National Estuarine Research Reserve (GTMNERR) and a portion of South Ponte Vedra Beach. These areas were severely eroded from back-to-back major hurricanes Matthew in 2016 and Irma in 2017 along with multiple nor'easters in the years following. Portions of State Road A1A were overtopped which shutdown the areas only major hurricane evacuation route. Currently the project delivery team is proceeding with the study in Phase 2 (Alternative Evaluation & Analysis) with development of the TSP expected in November 2022 and signing of the Chief of Engineers Report in April 2024.

Mr. Jason Harrah is the Project Manager for this study along with Ms. Katie Bailey as the Planning Technical Lead. For more information on the study please visit our website at <https://www.saj.usace.army.mil/Missions/Civil-Works/Shore-Protection/>



Photos of Damage from Hurricane Matthew 2016

Shoreline

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