Shoreline
FLORIDA SHORE & BEACH PRESERVATION ASSOCIATION
A League of Cities and Counties on Beach and Coastal Issues
About Shoreline
news from the Florida Shore and Beach Preservation Association March 2022

2022 Late-Session Update

By Pepper Uchino

We have entered the home stretch of the 2022 Regular Session. It is an even year, which means the Legislature meets from January to March rather than March to May. Policy bills not out of committee are now dead. In a highly unusual move, the Senate substantive committees stopped meeting Week 5 (rather than Week 6 or even 7 during some Sessions), and many bills met an early death this Session. Members and lobbyists will try to salvage important parts of bills by amending them onto other bill vehicles that are moving but given the small numbers of bills "in play," this process will be difficult. We will be constantly watching for "trains," which are bills that get loaded up with other issues, to ensure beaches are protected.

APPROPRIATIONS

Regarding the budget, the two presiding officers have agreed upon allocations, and budget conference meetings started this week. The Agriculture and Natural Resources general revenue fund allocation is $1,484.1 billion. This amount does not include trust fund dollars. The entire silo for all agriculture and natural resources agencies will be between $5.0-5.7 billion. For those unfamiliar with the budget process, each year the two chambers must agree on how much general revenue each silo will be allocated, hence "allocations." The subcommittee budget chairs meet to discuss differences in each silo's budget and attempt to iron out the differences through offers to the other chamber. This process is time-limited and continues until each side cannot agree further within the time allotted. All remaining, non-matching line items get "bumped" to the full appropriations chairs. Any unresolved issues after those budget conferences get bumped to the president and speaker. As a reminder, the Senate's starting position for beaches, is full funding of the list ($58.65M) and no funding for state park beach projects. The House's position is $50M for beaches and $45M for state park beach projects. FSBPA is advocating for the House to take the Senate's position on beach funding and the Senate to take the House's position on state park beach funding.

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Save the Date!

October 5-7, 2022
2nd Annual
Florida Resilience Conference
featuring the
65th FSBPA Annual Meeting
Hyatt Regency Coconut Point
Bonita Springs, Florida

Given the historic excess of revenues in this year's budget, FSBPA adjusted our usual ask ($50M) to request full funding of the list this year ($58.65M). Fortunately, the Senate has taken this position. This means that $50M is the minimum beaches will receive this year even after the historic funding received last year. Rest assured, FSBPA will be fighting for every additional penny including those for state parks.

Because the House hosts the budget process this year, the Appropriations Conference Report is HB 5001, which ultimately becomes the 2022/23 General Appropriations Act. HB 5003 will be the implementing. The Chair of the Agriculture and Natural Resources Conference Committee will be Rep. Tomkow. Senator Albritton will be Co-chair. This year, the chambers' spending plans started approximately $3.3 billion apart. Since allocations have been decided though, we can surmise the gap has essentially closed except for possibly the amount of money reserved for the president's and speaker's priorities.

The budget conference committee met on Tuesday, March 1. The Senate's first offer included full beach funding of $58.65M but no additional state park beach projects.

STATEWIDE BEACH MANAGEMENT PROGRAM LINE ITEMS

The Senate budget includes $50M in recurring LATF and approximately $8.65M in non-recurring LATF. The specific line item is below.

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1778   GRANTS AND AIDS TO LOCAL GOVERNMENTS AND
       NONSTATE ENTITIES - FIXED CAPITAL OUTLAY
       BEACH PROJECTS - STATEWIDE
       FROM LAND ACQUISITION TRUST FUND . .                    58,648,931

From the funds in Specific Appropriation 1778, $50,000,000 in
recurring funds and $8,648,931 in nonrecurring funds from the Land
Acquisition Trust Fund is provided to the Department of Environmental
Protection for distribution to beach and inlet management projects
consistent with any component of the comprehensive long-term management
plan developed in accordance with section 161.161, Florida Statutes.
Funds may be used in accordance with section 161.101, Florida Statutes,
for projects on annual ranked lists, storm repair projects, or projects
on lands managed by the state. Up to one percent of the funds provided
may be used for contractual services and administration needed to
support department management initiatives.
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The House budget includes funding for the statewide program at $50M in recurring LATF for the statewide beach program and $45M in non-recurring LATF for state park beach projects.

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1778   GRANTS AND AIDS TO LOCAL GOVERNMENTS AND
       NONSTATE ENTITIES - FIXED CAPITAL OUTLAY
       BEACH PROJECTS - STATEWIDE
        FROM LAND ACQUISITION TRUST FUND . .                   50,000,000

Funds in Specific Appropriation 1778 are provided to the Department of
Environmental Protection for distribution to beach and inlet management
projects consistent with any component of the comprehensive long-term
management plan developed in accordance with section 161.161, Florida
Statutes. Funds may be used in accordance with section 161.101, Florida
Statutes, for projects on annual ranked lists, storm repair projects, or
projects on lands managed by the state.
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1736A  FIXED CAPITAL OUTLAY
       STATE PARK BEACH PROJECTS
        FROM LAND ACQUISITION TRUST FUND . .                    45,000,000
   Funds in Specific Appropriation 1736A are provided for sand placement
   and the installation of groins for the following state park beach
   projects:

        Big Talbot Island State Park.............................. 3,000,000
        Dr. Von D. Mizell-Eula Johnson State Park................. 6,000,000
        Honeymoon Island State Park............................... 4,000,000
        Hurricane Pass (Honeymoon Island and Caladesi Island
         State Parks)............................................. 4,000,000
        Little Talbot Island State Park..... . 25,000,000
        North Peninsula State Park................................ 3,000,000
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POLICY BILL UPDATES

As for policy bills, FSBPA is not pursuing any of our own legislation this year but is supporting and monitoring several.

The first is **SB 224 (Gruters)/HB 105 (Fine/Altman) – Regulation of Smoking by Counties and Municipalities**. We are actively supporting this bill. Our sincerest gratitude goes to Senator Gruters and Representatives Fine and Altman for pursuing this legislation again this year. It has been many years in the making, and it looks like it will pass this year. The House has already passed the bill and the Senate is ready for floor action.

In relevant part, it allows counties and municipalities to restrict smoking within the boundaries of any of the public beaches and public parks they own. The House bill does not address cigars with plastic tips, which means the regulation of those is still preempted to the state, but we are working on including that language in the Senate for the House to accept in a Returning Message. Even if the Senate simply passes the House version, this is a win for Florida's beaches. The greatest number of litter on beaches are cigarette butts.

The second bill we have been working is **SB 494 (Hutson)/HB 323 (Sirois) – Fish and Wildlife Conservation Commission**. The bill is also positioned for final passage, and we worked hard with the sponsors and the agency (FWC) to clarify language regarding establishment of public bathing beaches. The original language seemed to inadvertently prohibit the creation of public bathing beaches adjacent to the Intracoastal Waterway. The bill now only applies to the waters adjacent to the Intracoastal Waterway, as the intent was to keep swimmers and vessels away from one another in these congested waters.

The last bills that are necessary for specific mention are **SB 96 (Burgess) and SB 98 (Burgess)/HB 7023 (Trabulsy) and HB 7025 (Trabulsy) – Emergency Preparedness and Response Fund.** The bills amend the financing provisions related to state expenditures made in response to a disaster. Specifically, disaster response expenditures must first come from those funds appropriated to state and local agencies for disaster relief or response. If insufficient, the bill authorizes the governor to expend up to $500 million in the Emergency Preparedness and Response Fund. It also authorizes the governor to request additional funds from Legislative Budget Commission to be transferred into the Emergency Preparedness and Response Fund. These bills were approved by the governor last week and are now law and should allow the governor to quickly expend funds to respond to a state of emergency.

There are a host of other bills we are monitoring dealing with resilience, flooding, expansion of the SLIP requirements, creation of a Chief Resilience Officer, and tourist development taxes. If you would like specific details on any of these bills, please reach out to me.

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2022 Planning Committee

Executive Committee

Ken Craig, PE
Taylor Engineering, Inc.

Chris Creed, PE
Olsen Associates, Inc.

Lauren Floyd
Coastal Protection Engineering

Michael Poff, PE
Coastal Engineering Consultants, Inc.

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Applied Coastal Research & Engineering

Will Reilly, PE
USACE Jacksonville District

Nicole Sharp, PE
APTIM

Lee Weishar, PhD, PWS
Woods Hole Group

and

Lisa Armbruster
FSBPA

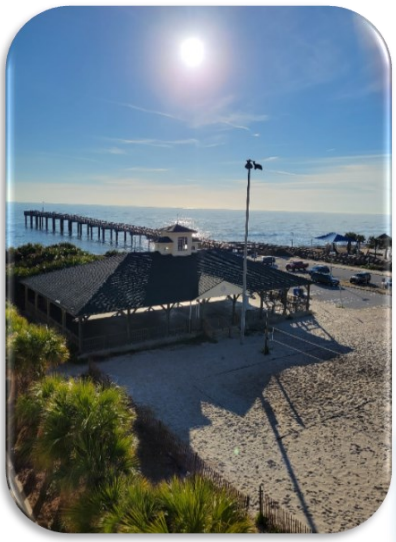
2022 Tech Conference—Wrap Up!

FSBPA and the Conference Planning Committee would like to thank all who participated in the 35th National Conference on Beach Preservation Technology. It was an overwhelming success with more than 60 speakers, 270 attendees, and many conference sponsors and vendors who generously supported the event. With more than 200 attendees on-site, there was a renewed energy in the ballrooms and buzz in the exhibit halls that we sincerely hope is here to stay.

The conference was offered as a hybrid event due to another year of uncertainty related to the pandemic. The upshot is that the entire program is recorded and available to attendees! This is especially advantageous if you need a go-back to hear any number of the outstanding presentations given last month. Kudos to the Planning Committee led by Lisa Armbruster for creating another exceptional program, especially given the unpredictability of Covid.

Conference Highlights

A few highpoints of the conference that we would like to call out include St. Johns County Commissioner Dean and his opening remarks about the beautiful and historical St. Augustine Beach and other attractions in the area. In recent years, St. Johns County has been a wonderful Host Partner for this conference, and we couldn't be more thankful for its support.



Commissioner Dean welcomed us to St. Augustine Beach on a picture perfect Chamber of Commerce Day.

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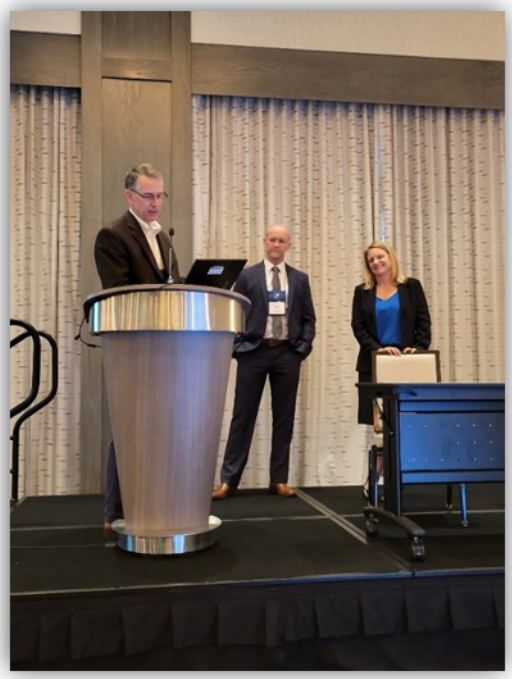
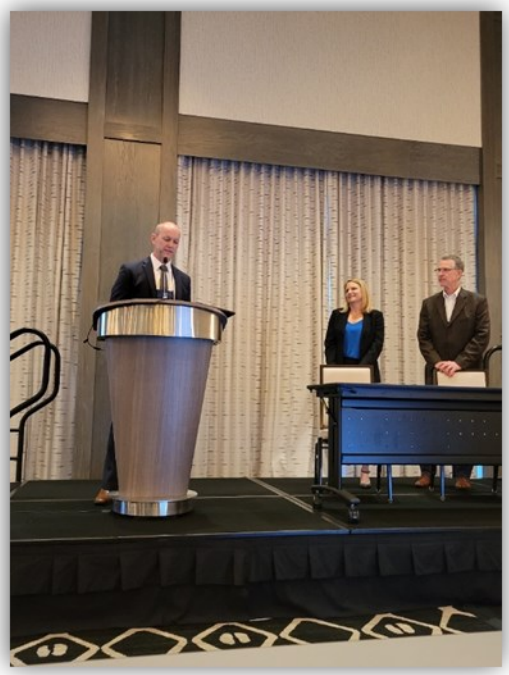
Presentation of the Richard Bonner & Jacqueline Keiser Award

Another highpoint of the conference was a brief deviation from our regularly scheduled program to present the Richard E. Bonner & Jacqueline J. Keiser Award to Mr. Matthew Schrader for his outstanding service with the U.S. Army Corps of Engineers. The award presentation was postponed from the Annual Conference because of scheduling conflicts, but Matthew's eloquent acceptance speech was well worth the wait! One of the award's namesakes, Ms. Jacqueline Keiser nominated Matthew for this award to recognize his leadership and vision that have contributed significantly to Florida's Coastal Program. FSBPA and its members are fortunate to have these extraordinarily talented individuals from the Jacksonville District working to preserve and protect Florida's coastlines. Our sincere thanks to Matthew and Jackie!





Steve Boutelle, FSBPA Secretary/Treasurer, is joined by Jacqueline Keiser in presenting the Richard Bonner & Jacqueline Keiser award to Matthew Schrader. This was the inaugural presentation of the award since it was retitled to include Jackie's name alongside Richard's.

Student Scholarship Program

The turnout of students participating in the scholarship program is another fitting story to share. There were six students from three universities who attended the conference – half virtually – to present their research. The field of young professionals was so impressive that the Student Scholarship sponsor, Michael Poff and Coastal Engineering Consultants, moved to award two sets of scholarships to both the on-line and in-person presenters. There is more information about the students and their research on the following pages. A special thanks to CEC for supporting these talented students!

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A Program Dedication

The 2022 Conference Program was dedicated to Scott Ligget, a longtime supporter of FSBPA and the National Tech Conference. Chris Creed worked closely with Scott for 29 years and gave a heartfelt tribute in honor of his dear friend on Wednesday, the one year anniversary of his passing.

Scott Ligget lived on Hilton Head Island for more than three decades and served as a public servant during much of this time. His most recent appointment was Director of Public Works and Facilities where he led the charge of many capital improvement projects including projects under the town's beach management program. For the past 20 years, Scott was a familiar face at our Tech Conferences. He served on the Planning Committee, moderated sessions and made presentations to share his unmistakable enthusiasm and relevant knowledge for beaches with a national audience.

We would like to thank Chris for sharing Scott's journey with us and echo his sentiment that Scott was greatly missed this year. We are thankful for his service to beaches and commitment to this association. May his memory and passion for the coast live strong.

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and our Conference Exhibitors

Access Rec, LLC
Athena Technologies, Inc.
AVS - An AMDRILL Company
Bluewater Environmental of Florida, Inc.
CSA Ocean Sciences Inc.
Cummins Cederberg, Inc.
EarthBalance Corporation
Eastman Aggregate Enterprises, LLC
Ecological Associates, Inc.
GHD, Inc.
Hyatt Survey Services, Inc.
LG2 Environmental Solutions, Inc.
Seismic Surveys, Inc.
SurvTech Solutions, Inc.
Taylor Engineering, Inc.
Vulcan Materials

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Pictures from the 2022 Tech Conference

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Meet the 2022 Student Scholarship Participants

Six students participated in the Student Scholarship Program this year and were provided a complimentary registration courtesy of the scholarship sponsor, Michael Poff and Coastal Engineering Consultants. Conference attendees had an opportunity to meet and discuss the research with three of the students in St. Augustine Beach, but because of concerns over Covid, the other three students presented their research to the judges in Zoom the following week. On behalf of the judges, Lisa Armbruster, James Gray, and Michael Poff, it is a pleasure to introduce all of the students in this newsletter. They are extremely bright, motivated, and enthusiastic about environmental science, coastal engineering and/or geoscience, and we look forward to their future careers in preserving beach and coastal systems (hopefully in Florida!).

Now it is time to meet the students. They are listed in alphabetical order by school and name on the following pages. The students were also invited to prepare a write up about their research or to share additional information about themselves for our readers. Sophia Gutierrez and Elizabeth Royer provided summaries for this month's edition of Shoreline. Scholarship Awards were announced earlier this month, but they are provided again on page 14.

College of Coastal Georgia

Chelsea Brown (sponsoring professor, Dr. Robin McLachlan)*: Evaluating Shoreline Erosion on Little Cumberland Island, Georgia using Historic Satellite Imagery and In-Situ Gauges*

Chelsea is a senior and will graduate in May 2022 with BS in Biology, and in July she will receive a BS in Environmental Science. After graduation, she plans to seek employment in coordinating laboratories and field work trips. Chelsea is also looking into graduate programs that focus on microbial ecology and human impact.

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College of Coastal Georgia

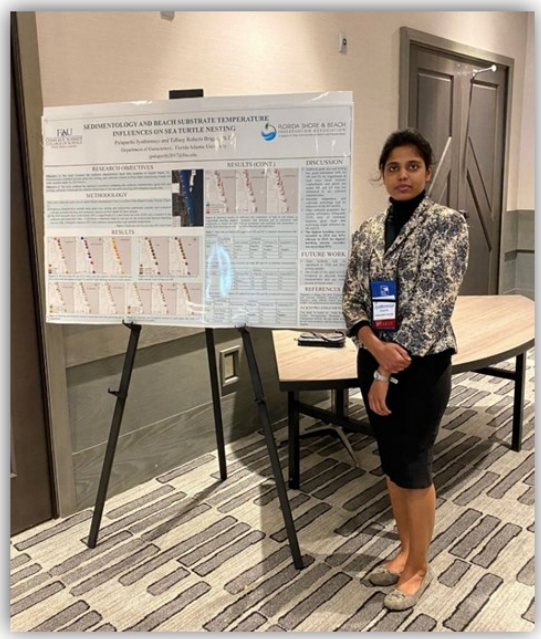
Skye Lewis (sponsoring professor, Dr. Robin McLachlan): *Analyzing the Impact of Shallow Bathymetry and Wind on Tidal Flooding of Island Roads: A Case Study of Little Cumberland Island, Georgia*

Skye is a senior set to graduate in May 2022 with a BS in Environmental Science with a concentration in Geology. She would like to continue her studies in a Master's program, but if she is not accepted this year, she plans to work in environmental science and coastal geomorphology.

Florida Atlantic University

Jyothirmayi Palaparthi (sponsoring professor, Dr. Tiffany Roberts Briggs): *Sedimentology and Beach Substrate Temperature Influences on Sea Turtle Nesting*

Jyothi is a 3rd year PhD student in the Department of Geosciences. She had abstracts selected for both the student scholarship program and the conference program. After graduation, Jyothi will be seeking employment in coastal consultancy with a focus on GIS and data analysis.



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Florida Atlantic University

Michael Priddy (sponsoring professor, Dr. Tiffany Roberts Briggs): *Event-driven Nearshore Sediment Transport and Morphology Change in Boca Raton, Florida*

Michael is a second-year MS student in Geosciences and will defend his thesis this spring/summer. After graduation, Michael will attend Virginia Tech University as a PhD student in the Department of Geosciences. While at VT, he will specialize in subduction zone paleogeodesy, which combines the methods of coastal stratigraphy, sedimentology, micropaleontology, paleoseismology, geophysical and sediment transport modeling, and sea-level research, to reconstruct long-term histories of coseismic vertical deformation and tsunami inundation along subduction zone coastlines.

University of South Florida

Sophia Gutierrez (sponsoring professor, Dr. Ping Wang): *First-year post-nourishment beach-profile adjustment in association with turtle nesting along four southeast Florida beaches*

Sophia is a first-year master's student at the University of South Florida aiming for a degree in coastal geology. After graduation, she will be seeking employment in a coastal consulting company or government agency.

University of South Florida

Elizabeth Royer (sponsoring professor, Dr. Ping Wang): *Depth of Closure and Its controlling Factors at Various Florida Beaches*

Elizabeth is a second-year master's student at the University of South Florida, and is planning to pursue her PhD in Coastal Geology this fall, again at the University of South Florida.

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A message from Sophia Gutierrez

Currently, I am in my first semester of my graduate studies at the University of South Florida (USF) aiming to get my degree in coastal geology while working in the Coastal Research Laboratory under my advisor, Ping Wang. I received my Bachelor of Science in geology from USF in 2021.

I am from Miami Beach and lived by the coast on an erosional hotspot zone that received nourishment every 6-7 years. As I began being educated about erosion and sea level rise, I realized my passion was to help social and wildlife coastal communities from the potential degradation of their coastline.

My thesis project focuses on the beach nourishment profile adjustment and how the alterations influence the sea turtle nesting portion of the beach at four Florida beaches. The beaches included are Jensen Beach, Melbourne Beach, Juno Beach, and Jupiter Island Beach which all have distinct nourishment designs and high nesting densities of Loggerhead (Caretta *caretta*) and Green (Chelonia *mydas*) turtles. This study began in 2018 and is a collaborative and ongoing project with Florida Fish and Wildlife Conservation Commission, U.S. Fish and Wildlife Services, and United States Geological Survey.

I am very fortunate and eager to be working alongside many distinguished scientists in a project that examines the influences of beach nourishment on sea turtle nesting. I am learning that sea turtle nesting is a very complex topic, and I am glad that I can contribute to this very important issue. I'd like to thank FSBPA for the warm welcome to the community and for the opportunities it provides to students in this field to learn and interact from peers and professionals. I am excited to stay connected with the community in the years and conferences to come!

Sophia Gutierrez

A message from Elizabeth Royer

Currently, I am a second-year graduate student working in the Coastal Research Laboratory under Dr. Ping Wang at the University of South Florida, pursuing a master's degree in geology with an expected graduation date of early summer 2022. I am from Columbus, Ohio, and graduated from Oberlin College in 2020 with a bachelor's degree, double majoring in geology and environmental studies. My research and academic interests include beach-inlet morphodynamics, nearshore sediment transport, nearshore wave and current modeling using CMS, and coastal resiliency using natural and nature-based features. My thesis research is focused on the depth of closure and its controlling factors at various Florida beaches.

Depth of closure is defined as the most landward depth seaward of which there is no significant change in bottom elevation and no significant net sediment exchange between the nearshore and the offshore over a certain period of time, such as 5 to 20 years. This is an essential piece of information for coastal engineering, beach and shore protection, sediment management, and many other aspects of coastal studies. Taking advantage of recent advancements in bathymetry data collection, this study aims to develop a new and more comprehensive method to identify the depth of closure through field measurements. The measured values are used to examine existing empirical formulas to calculate DOC. Thus far we have determined that the foreshore slope may have significant control on the DOC.

I am extremely excited to be a part of a research project that has so many opportunities for application. My goal and focus going into graduate school was to produce a thesis that could be applied and positively impact the coastal community surrounding me. Dr. Wang and the Coastal research lab have provided me with the opportunity to work on various projects that can be directly applied to our community. I am hoping to continue this work, understanding and helping to solve coastal problems in west central Florida through continuing my education at the University of South Florida. I plan to continue my graduate studies toward a PhD degree. Over the past two years I have enjoyed attending the FSBPA conference, although virtually, and connecting with amazing peers and professionals who are improving the fields of coastal geology and engineering! This conference is extremely inspiring seeing the amazing work people are doing to improve resiliency within the coastal communities around Florida.

I look forward to attending it in the years to come!

Thank you,
Elizabeth Royer

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Student Scholarship Awards

Virtual Student Poster Presenters

Elizabeth Royer, Ping Wang, Ph.D & Jun Cheng, PhD **1st place**
University of South Florida, Coastal Research Laboratory
Depth of Closure and Its controlling Factors at Various Florida Beaches

Michael Priddy & Tiffany Roberts Briggs, PhD **2nd place**
FAU Department of Geosciences
Event-driven Nearshore Sediment Transport and Morphology Change in Boca Raton, Florida

Sophia Gutierrez & Ping Wang, PhD **3rd place**
University of South Florida
First-year post-nourishment beach-profile adjustment in association with turtle nesting along four southeast Florida beaches

In-Person Student Poster Presenters

Skye Lewis & Robin McLachlan, PhD **1st place**
College of Coastal Georgia
Analyzing the Impact of Shallow Bathymetry and Wind on Tidal Flooding of Island Roads: A Case Study of Little Cumberland Island, Georgia

Jyothirmayi Palaparthi & Tiffany Roberts Briggs, PhD **2nd place**
FAU Department of Geosciences
Sedimentology and Beach Substrate Temperature Influences on Sea Turtle Nesting

Chelsea Brown & Robin McLachlan, PhD **3rd place**
College of Coastal Georgia
Evaluating Shoreline Erosion on Little Cumberland Island, Georgia using Historic Satellite Imagery and In-Situ Gauges

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A Brief History of the Manatee County Shore Protection Project

by Chris McNees – Senior Project Manager, USACE Jacksonville District, Erin Duffy, PE – Area Engineer, USACE Jacksonville District, and Tom Pierro, PE – Principal Engineer, Coastal Protection Engineering, LLC

US Army Corps of Engineers®

The Manatee County Shore Protection Project is located on Anna Maria Island in Manatee County, Florida, specifically within the municipalities of Holmes Beach and Bradenton Beach, west of Bradenton, Florida, and approximately 35 miles southwest of Tampa, Florida (Figure 1).

Figure 1: Project is located in Manatee County, Florida. Source: Wikipedia

The project was originally authorized by Section 201 of the Flood Control Act of 1965 (Public Law 89-298) dated October 27, 1965, as amended by Section 131 of the Water Resources Development Act (WRDA) of 1976 (Public Law 94-587) dated October 22, 1976. As requested by a resolution of the Committee on Public Works, United States Senate, dated January 31, 1967, Anna Maria Key and Longboat Key were studied in the late 1960s through early 1970s, and a Chief of Engineers Report dated October 18, 1972, was prepared. The purpose of the study was to survey the approximate 14 miles of Manatee County shoreline; define areas of beach erosion, hurricane protection, and other related problems; identify the most economical methods for alleviating those problems; and determine the feasibility of a federal project and the division of costs between the federal government and the local sponsor. Based on the results of the study, the Chief of Engineers recommended adoption of a federal beach erosion control project for the entire 7.5 miles of Anna Maria Key (Island), subject to local cooperation, and federal participation in periodic beach renourishment for the life of the project.

Resolutions approving the project from the Committees on Public Works from the United States Senate and the United States House of Representatives were adopted on May 31, 1974, and November 20, 1975, respectively. The Chief of Engineers authorized the shore protection project for Manatee County, Florida, on December 19, 1975, that included the entire 7.5 miles of Anna Maria Island. Federal participation in improvements for beach erosion control for the Anna Maria Island gulf shoreline consisted of restoration of 3.2 miles of beach and periodic nourishment of the restored beach and such adjacent shoreline as may be needed and justified. The improved beach would consist of a level berm 50-feet wide with an elevation of 6 feet above mean low water and slopes, as shaped by wave action, of about 1V:15H (1 foot of vertical change for every 15 feet of horizontal change) from berm crest to mean low water and 1V:30H from mean low water to the intersection with the existing gulf bottom.

A previous General Design Memorandum (GDM) was prepared in 1978 that proposed updates to the project. This GDM report recommended modifying the fill length to 3.9 miles from the initial restoration of 3.2 miles and added the construction of a rubble mound low profile groin at the north end of the island at Passage Key Inlet. More specifically, initial restoration was proposed to include fill placement across 18,500 feet (3.5 miles) between 4th Street South in Bradenton Beach and continue northward to 58th Street in Holmes Beach, and an additional 2,000 feet of fill placement would occur southward from Passage Key Inlet in the City of Anna Maria. No changes to the berm's width, height, or slopes were proposed. The nourishment interval was every ten years. The South Atlantic Division Engineer approved these project modifications on July 30, 1979, but no approval from the Chief of Engineers occurred. Initial construction never took place before the next project modifications were proposed in 1991.

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The 1991 Manatee County, Florida Shore Protection Project General Design Memorandum (GDM) modified the project to its current state. The modifications to the project included increasing the length of initial restoration from 3.2 miles to 4.2 miles due to continued erosion since 1975 and various tropical storms throughout the 1980s and revising the berm width from 50 feet to 75 feet thereby generating the maximum net benefits. The nourishment interval was revised to every nine years. Additionally, the recommended plan, referred to as the locally preferred plan within the GDM report, included a 0.5-mile transition zone (taper) at the southern end of the project. The Army Corps of Engineers (Corps) supported the National Economic Development (NED) plan which included a groin near the project's southern terminus. Because the State of Florida and Manatee County supported the no-groin design, additional costs between the federally supported NED plan and the locally preferred plan would be the responsibility of the non-federal sponsor. The authorized project still provided for future nourishment of the remainder of the island as needed and justified. The Chief of Engineers approved the report on February 6, 1992.

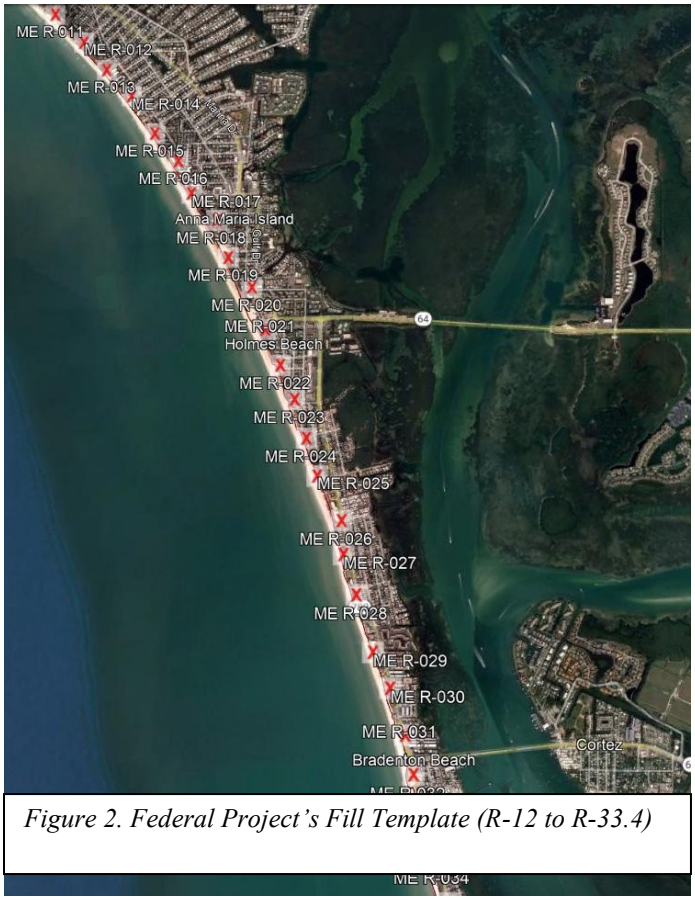

Figure 2. Federal Project's Fill Template (R-12 to R-33.4)

The current Manatee County Shore Protection Project was initially constructed between December 1992 and March 1993. The 4.2-mile project area spans from 77th Street in Holmes Beach (FL Department of Environmental Protection [FDEP] R-monument R-12) to 4th Street South in Bradenton Beach (R-33.4). The locally preferred plan's 0.5-mile transition zone begins at R-33.4 and continues southward to R-36. Figure 2 shows the location of the federal shore protection project in Manatee County. Approximately 2.3 million cubic yards (cy) of fill material was placed along 4.7 miles of Anna Maria Island's gulf shoreline between R-12 and R-36. The sand source for the event was located approximately 2,000 feet offshore of the project.

Following completion of initial construction in 1993, the project has undergone three, federally involved periodic renourishments in 2002, 2012/2013 and 2020, and a storm-related rehabilitation event in 2005/2006. The first renourishment occurred between March and May 2002. Approximately 1.8 million cy of material was reportedly placed between R-12 and R-36. In 2004, various hurricanes impacted the State of Florida, including Charley and Ivan which significantly impacted Anna Maria Island. Under Public Law 84-99, the federal government provided Flood Control and Coastal Emergencies (FCCE) funding, thereby allowing approximately 213,000 cy of material to be placed on the project between R-12 and R-28 in 2005/2006 to compensate for lost sediments during the 2004 hurricane season. The project's second renourishment occurred between December 2013 and March 2014 and was a combined event of general renourishment funding and FCCE funding as a result of the 2012 hurricane season. Approximately 888,000 cubic yards of material was placed on the project between R-12 and R-36. The sand source for the past events was located approximately 4,000 feet offshore of the project in the ebb tidal shoal of Passage Key Inlet.

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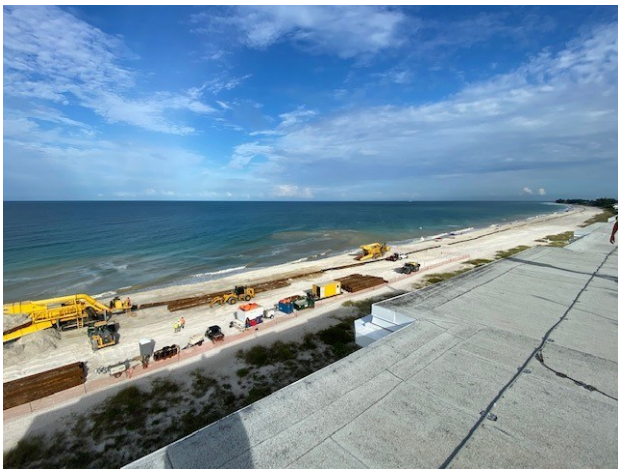

Photos: Northern view of 3rd renourishment construction and pipeline from R-17 (Top); Berm construction (Center) at R-17; Northern view from R-17 post-construction (Bottom)

The most recent, third renourishment was completed between July and October 2020. Approximately 762,000 cy of material was placed on the federal project between R-12 and R-33.4. As a cost-saving measure for the county, Manatee County requested, at their expense, the Corps incorporate design and construction of the non-federal, Coquina Beach segment into the federal project's renourishment event. Approximately 250,000 cy of material was placed on the non-federal segment between R-33.4 to R-41.5 in October and November 2020.

During the third renourishment, the Corps approved the Manatee County, Florida Shore Protection Project, Engineering Documentation Report (EDR): Dune Resilience dated September 2020 that recommended dune design refinements to improve resilience. The Corps in cooperation with Manatee County was able to implement some of the EDR-recommended dune improvements on the southern portion of the federal project during the construction event. Approximately 4,000 cy of dune repair was constructed along approximately 2,900 feet of the federal project's shoreline, including modifications and/or preservation of multiple pedestrian access and vehicle access points. Over 26,000 associated dune plants were planted within the dune repairs. Further dune resiliency measures will be incorporated into future renourishments or FCCE events.

The project's fourth renourishment is anticipated in 2029. Federal participation in the project is set to expire in 2043.

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FDEP Office of Resilience and Coastal Protection Updates - March 2022

Beaches Inlets and Ports (BIP) Realignment

Additional staff has resulted in a slight rearrangement of the structure of BIP.

Kaylee Rose has joined the BIP program as a permit manager. Kaylee earned an undergraduate degree in biology from Georgia Southern University and a master's degree in Aquatic and Environmental Science from Florida State University. She previously interned with the Florida Fish and Wildlife Conservation Commission.

Sean Green is now the permitting supervisor. Rachel Grundl will take over permit management for the southwest counties (Sarasota to Collier and for Monroe); Zach Boudreau will retain the southeast counties (Indian River through Miami-Dade); and Kaylee Rose will be responsible for the Panhandle and northeast counties.

Ivana Kenny Carmola will now be the compliance supervisor. Lindsay Brantley is responsible for compliance on the east coast; Libbie McDearmid will be responsible for the gulf coast down through Manatee County; and Andrew Skunda will be responsible for Sarasota through Collier counties and for Monroe County.

Inlet Management Plans (IMP)

Inlet management planning continues as technical advisory committees have been established to evaluate updating or establishing new plans for St. Lucie Inlet; South Lake Worth Inlet; Fort Pierce Inlet; Sebastian Inlet; the Estero Barrier inlets (Big Carlos Pass, New Pass and Big Hickory Pass); Pensacola Pass; and New Pass in Sarasota County. The St. Lucie Inlet IMP will undergo its third update. This would be the first inlet to have an IMP updated as many times.

Florida Resilient Coastlines Program

A Notice of Rule Development, including a notice for a Rulemaking Development Workshop, was published in the Florida Administrative Register on Feb. 17, 2022.

The purpose of this rule is to implement Section 380.093, Florida Statutes, relating to the Statewide Flooding and Sea Level Rise Resilience Plan and evaluation criteria for projects proposed for state funding. Entities for which this rule is relevant are coastal and inland communities, including counties, municipalities, water management districts, flood control districts and regional resilience entities.

Workshop Information:

- **Date and time**: Thursday, March 17, 2022, beginning at 1:30 p.m. to no later than 3 p.m. EDT.
- **Place**: Marjory Stoneman Douglas Building, Room 137A, 3900 Commonwealth Blvd., Tallahassee, Florida 32399.

The public may attend the workshop in person or via webinar. Information on how to attend this workshop via webinar will be available on the department's Resilient Florida Program – Rulemaking webpage prior to the webinar date. Due to technical limitations, virtual participation is limited to 500 participants.

The person to contact regarding the proposed rule development and for a copy of the preliminary draft, if available, is Krista Shipley, Florida Department of Environmental Protection, 2600 Blair Stone Road, MS 235, Tallahassee, Florida 32399; 850-245-8378; or Resilience@FloridaDEP.gov. Both the preliminary text of the proposed rule development and the workshop agenda will be available from this contact person beginning March 3, 2022.

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Goodbyes

Andrew Briscoe has left the Beach Management Funding Assistance Program to return to DEP's Division of Water Resource Assistance to work with the State Revolving Fund as an environmental consultant.

Valerie Jones retired from the Coastal Construction Control Line Program in January after more than 32 years with the department. She started in State Lands working on the Conservation and Recreational Lands program drawing maps (by hand) and had an interesting and varied career. We will miss her cheery smile and hope she enjoys retirement.

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Shoreline

A monthly electronic publication of the Florida Shore & Beach Preservation Association.

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CALENDAR OF EVENTS

FSBPA Conferences

October 5-7, 2022
2nd Annual Florida Resilience Conference
featuring the 65th FSBPA Annual Meeting
Hyatt Regency Coconut Point
Bonita Springs, Florida

Other Dates of Interest

March 29-31, 2022
ASBPA's Virtual Coastal Summit

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