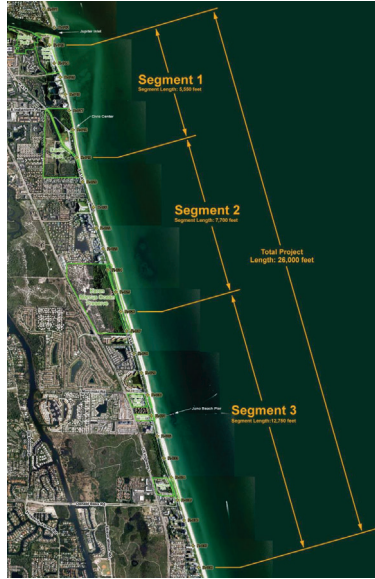


# Town of Juno Beach Coastal Update April 2024



Andy Studt  
Palm Beach County  
Dept of Environmental Resources Management



## North County Comprehensive Shore Protection Project

- Total Project Length – 4.92 miles
- Segment I – Traditional Jupiter/Carlin Project Area
  - 5,550 ft length
  - 150-200 ft berm width
- Segment II – South Jupiter Segment
  - 7,700 ft length
  - Dune-only Restoration and Maintenance
- Segment III – Traditional Juno Beach Project Area
  - 12,750 ft length
  - 150-200 ft berm width



### Fall 2023/Winter 2024 Erosion

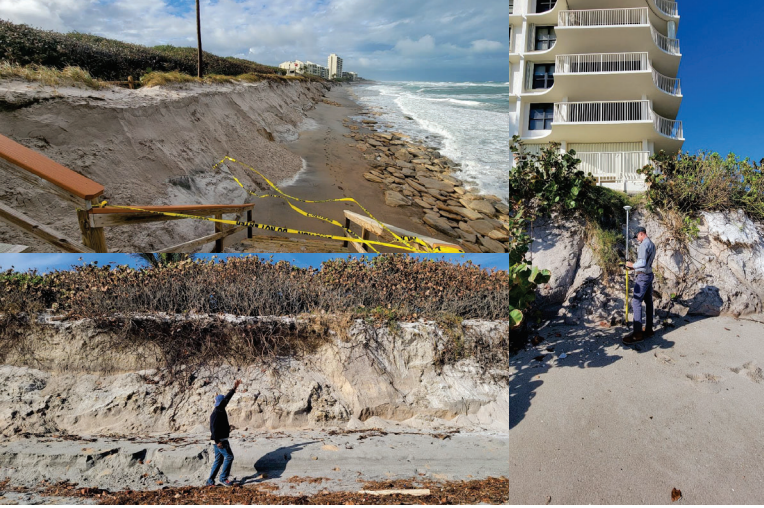


### Fall 2023/Winter 2024 Erosion

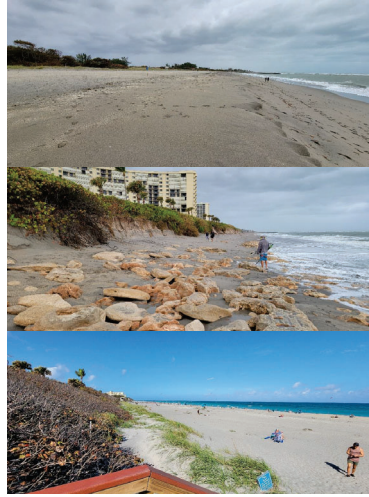




## Fall 2023/Winter 2024 Erosion



## Project History – Jupiter/Carlin Segment



- Beach Nourishment
  - 1995 603,000 CY
  - 2002 626,000 CY
  - 2015 424,000 CY
  - 2020 513,000 CY
  - 2022 409,000 CY
- 2022 Restoration Facts
  - ~\$7M Total Cost
  - 50% External Cost Share
- Fall 2023 / Winter 2024
  - Severe Erosion Hotspot
  - Accelerated Sand Movement
- 2024 JID Maintenance
  - 2024 ~140,000+ CY (ongoing)



## Project History – South Jupiter Dune



- Dune Nourishment
  - 2016 3,300 CY
  - 2020 5,000 CY
  - 2022 27,595 CY
- 2022 Restoration Facts
  - \$1.4M+ Total Cost
- Fall 2023 / Winter 2024
  - Limited Dune Erosion
  - Accretion South of R. Club
  - Beach Stabilizing
  - Ongoing Vandalism Issues



## Project History – Juno Beach Segment



- Beach Nourishment
  - 2001 1,000,000 CY
  - 2010 925,000 CY
  - 2021 991,000 CY
- FY2021 Project Facts
  - ~\$15M Total Cost
  - 95% External Cost Share
- 2022 Hurricane Nicole
  - 207,745 CY Damages
  - \$4,281,668 FEMA (75%)
  - \$1,051,963 FDEP (100%)
- Fall 2023 / Winter 2024
  - Significant Damage South
  - Accretion North of Juno Pier



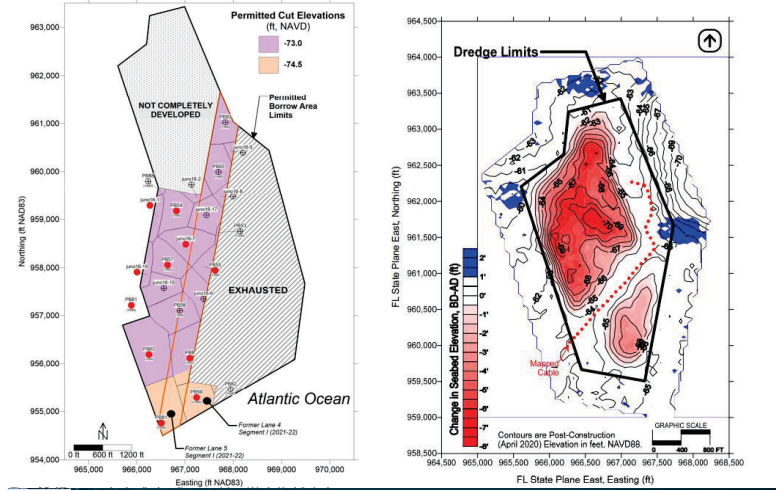
# Project Status and Planned Construction



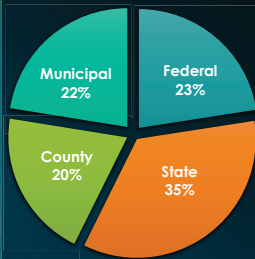
- Segment I (Jupiter/Carlin)
  - FY2022 409,000 CY Nourishment
  - ~7yr nourishment interval
  - FIND ICWW Maintenance FY2025
  - Potential Nourishment Winter 2026
  - Dune Construction as Needed (FY2025?)
- Segment II (South Jupiter)
  - Permitting- Major Permit Modification
    - FDEP Permit App Sent 2/6/2024
    - USACE Permit App Sent 2/29/2024
  - Potential Nourishment Winter 2026
  - Dune Construction as Needed
- Segment III (Juno Beach)
  - FY2021 991,000 CY Nourishment
  - ~10yr nourishment interval
  - Potential Nourishment Winter 2026
  - Dune Construction as needed



# North County Sand Search



# Countywide Beaches Funding



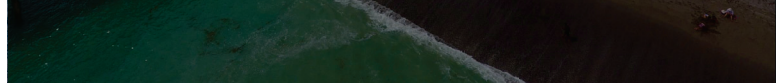
## Funding sources include

- County (TDC)
- State (DEP)
- Federal (USACE, FEMA)
- Local Municipalities



# What's Next?

- Updated Annual Surveys to Assess Project-Wide Condition
- Normalization of Conditions and Summer Accretion
- Regrowth of Wind/Salt Damaged Native Vegetation
- Monitoring and Maintenance of Erosional "Hotspots"
- Ongoing Permitting for South Jupiter Dune Area
- Sand Search for Next Borrow Area





## Questions?

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