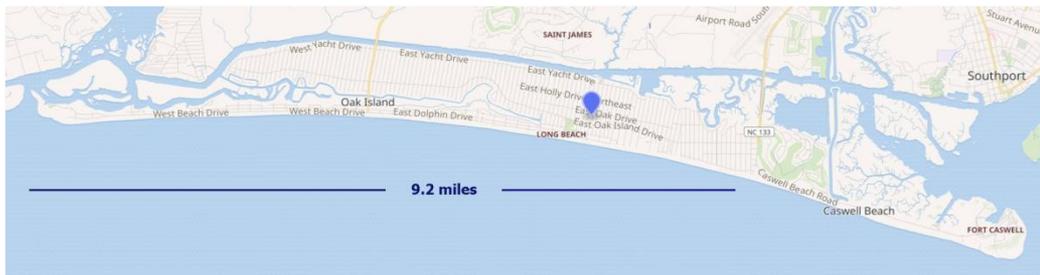
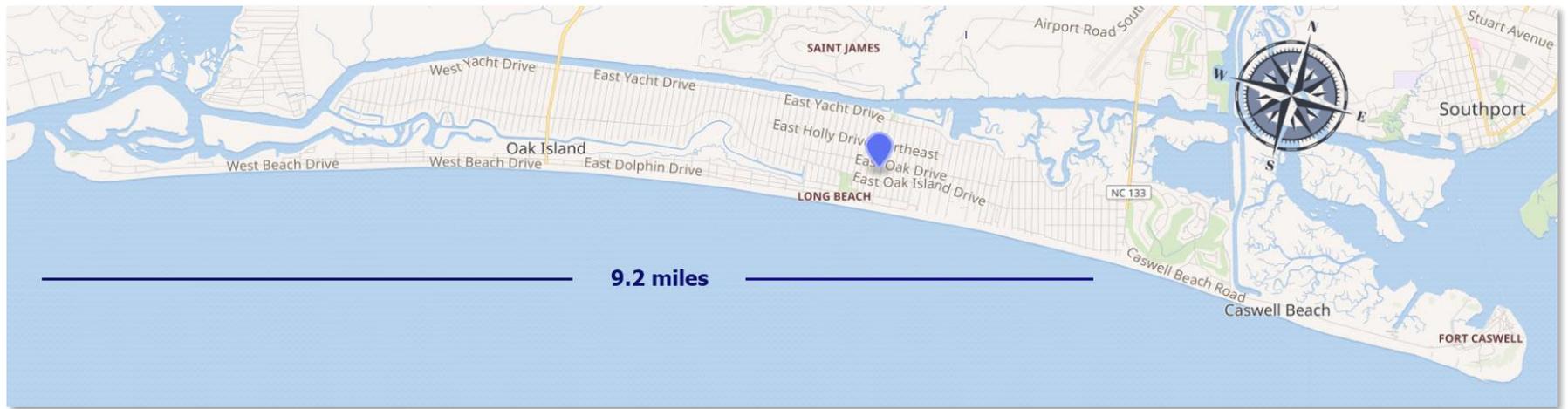




# About Oak Island

- Is a south-facing barrier island
- Encompasses 20 square miles; about 12-miles long and 1-mile wide at widest point
- The Town of Oak Island—a municipality with a year-round population of +/- 10K—has a shoreline comprising 9.2 miles with 65 beach accesses
- Elevations range from sea level to a 50' high knoll on West End (Capel's Hill)





Bordered by:

- Atlantic Ocean (South)
- Intercoastal Waterway (ICW) (North)
- Caswell Beach (East)
- Holden Beach (West) across the Lockwood Folly Inlet

# DUNE STATUS



Stable (East)  Vulnerable (West)

- Hurricanes
  - Hazel (1954)
  - Bertha (1996)
  - Fran (1998)
  - Bonnie (1998)
  - Floyd (1999)
  - Matthew (2016)
  - Florence (2018)
  - Isaias (2020)
- Nor'easters and King Tides
- Inordinate number of beach accesses

# Vulnerabilities

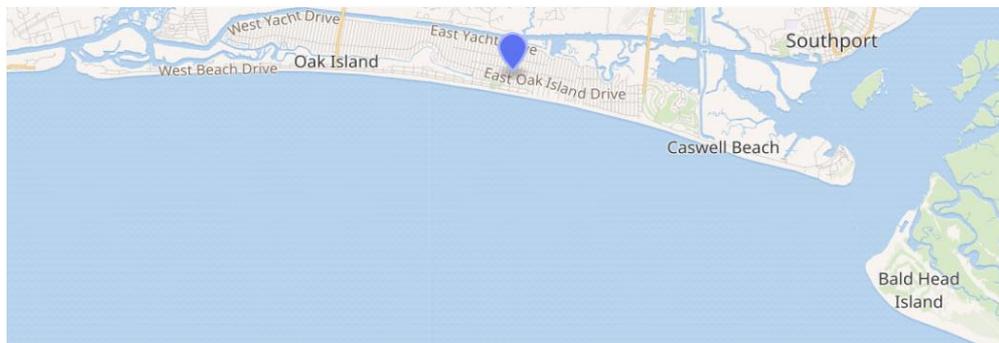
- 2001: First major project post-Floyd 🐢
- 2009/: USACE Lockwood Folly dredge;  
2015+ material placed on West End
- 2016: Contracted Moffatt & Nichol
- 2017: Beach restoration on East End 🐢  
post-Matthew
- 2022: Emergency dune restoration post-Florence
- 2023: Beach Management Plan (BMP)  
approval
- 2024: USACE permit application 2024/  
2025 berm project  
BOEM lease agreement (pending)  
USACE federal beach application
- 2025: Rebid 2024/2025 construction  
project  
Continue to explore West End  
solution

# OKI Beach Management Snapshot

- Shrinking compatible, near-shore sediment sources
- Narrow set of state-approved preservation options
- Coordination across numerous federal and state agencies
- Funding models give rise to competition for available sediment
- Escalating construction costs
- Heavy citizen tax burden

# Challenges

- Explore systems-based approach to sediment management
- Expand availability of evidence-based, near- and offshore preservation approaches
- Incentivize/prioritize funding of regional projects



# Opportunities