



Concerns & Considerations Regarding a Hardened Structure near The Point

Living in Harmony with Nature?

View the video of this presentation here: <https://youtu.be/FOLX7-VYH58>



CAUTION!

Consideration 1 = Physics are Very Complicated!



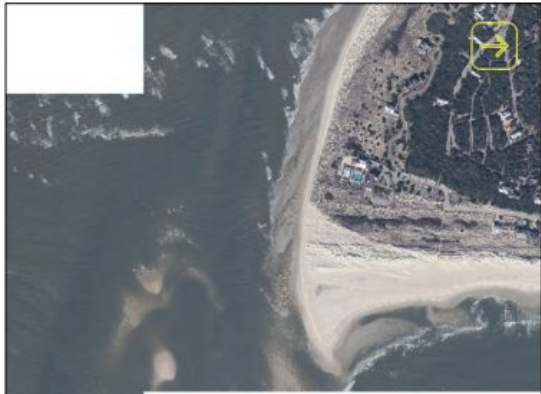
May 2008 Photo



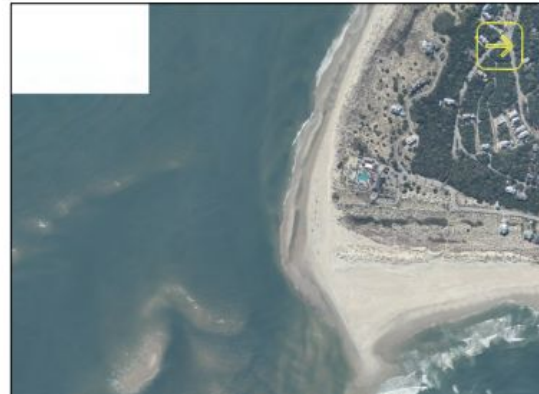
April 2010 Photo



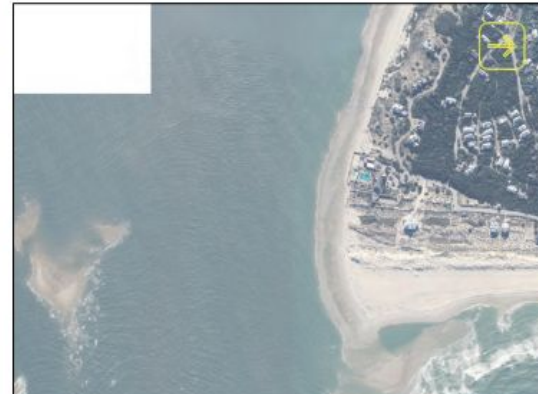
April 2011 Photo



May 2014 Photo



April 2017 Photo



May 2023 Photo

Figure 3.12:
Cape Fear aerial photography
Bald Head Island, NC

olsen associates, inc.

Intersection of 2 separate but linked littoral systems

>270 degrees of influence from waves, currents, winds

Largest drivers of sand movement = storms which are unpredictable in frequency and strength

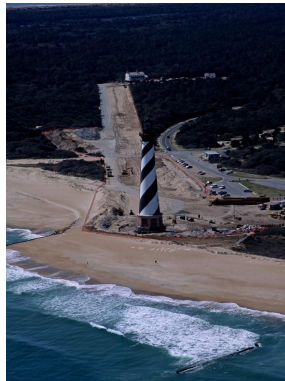
Nearshore sandbars vary in size, orientation... incredibly complicated system to model

Consideration 2 = Practices and Policies

Groin function in NC = keep sand out of inlets in downdrift direction, not protection of private property

NC DEQ = “erosion-control structure must not adversely affect adjacent private properties, coastal resources or public use of the beach.”

Precedent = Cape Hatteras Lighthouse – Build Groin or Migrate?



Legacy for BHI = What happens if structure doesn't work as planned?

Downdrift erosion increased = Human safety?

Loss of sand sharing with East Beach = Build another groin?

Rocks on beach forever?

Will future Village Councils be as receptive to engineering/environmental guidance?

View this video at 11:19 here: <https://youtu.be/FOLX7-VYH58>



Do We Still Value *Living in Harmony with Nature?*

Consideration 3 = BHI's Sea Turtles

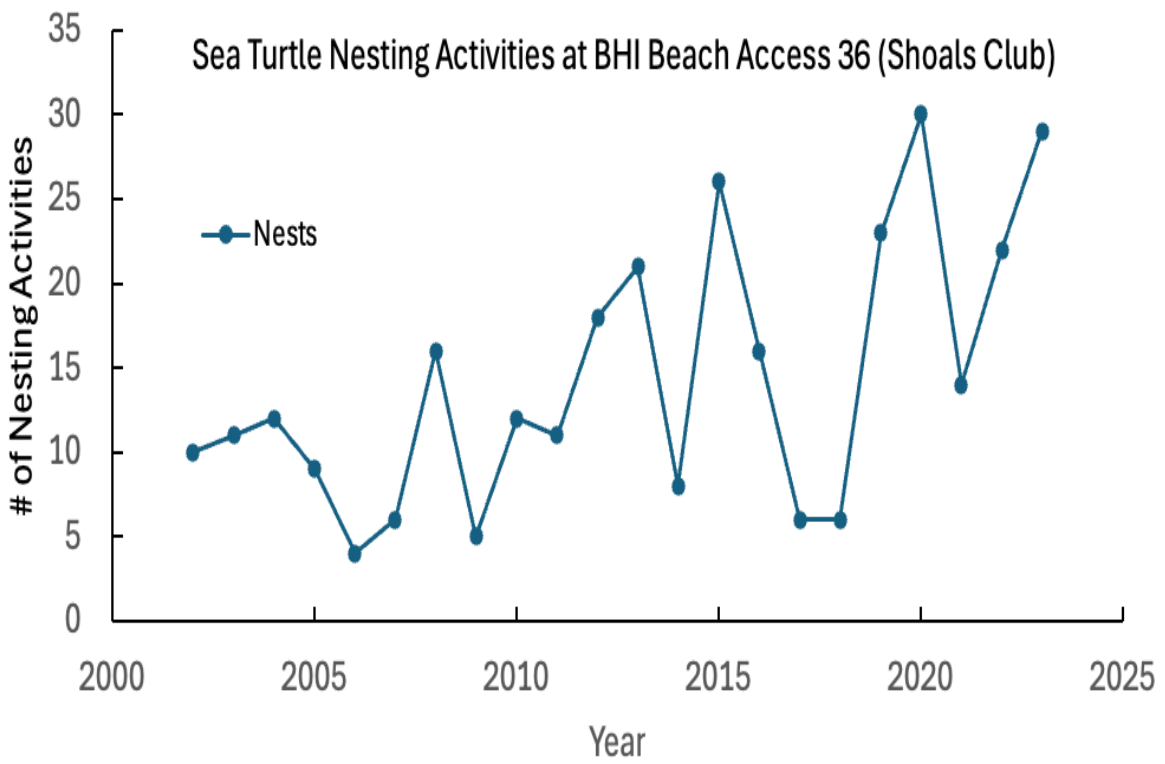
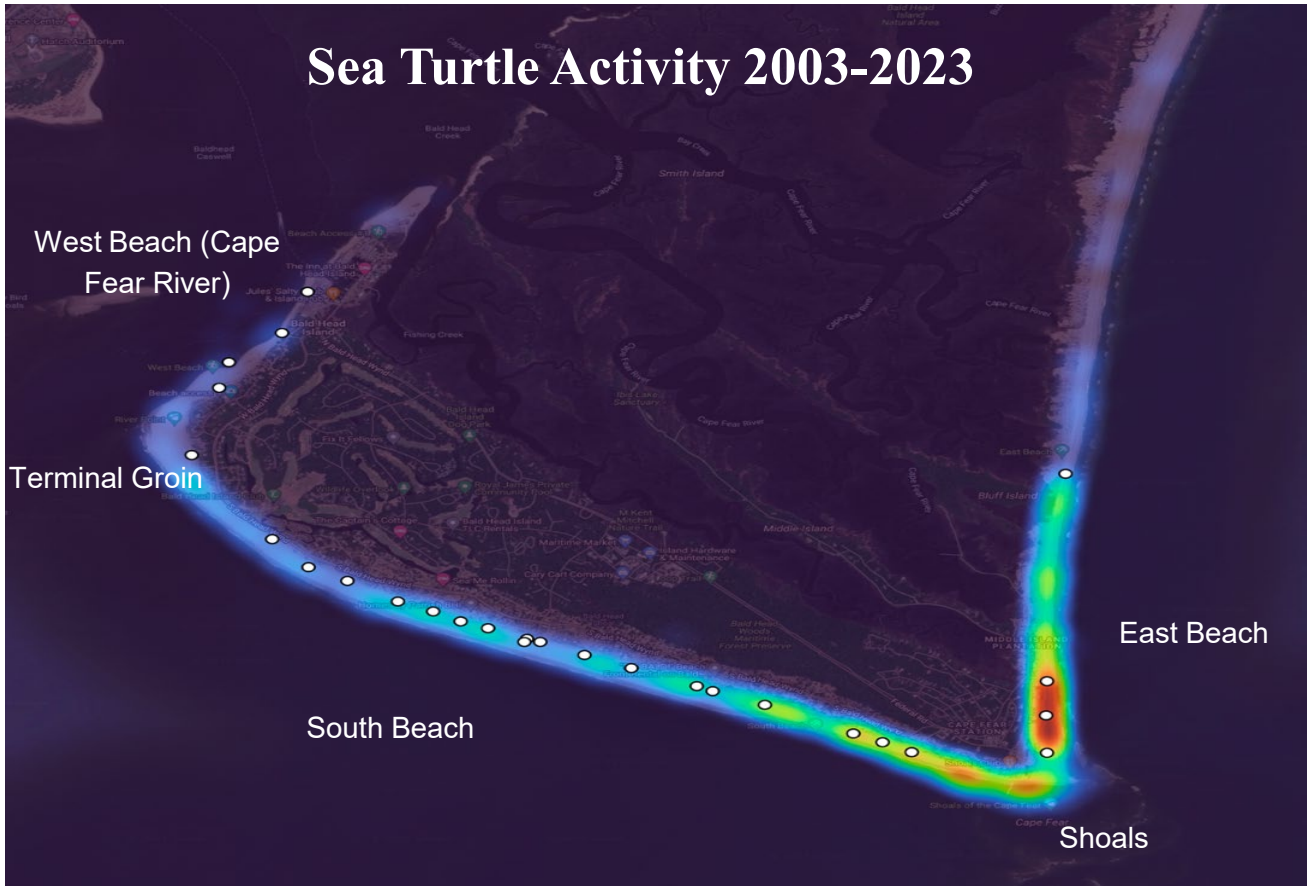
BHI = Federally designated as *Critical Nesting Habitat*

Shoals = Focal Point for BHI Sea Turtles

36% of activity occurs within 14% of beaches centered around shoals



Sea Turtle Activity 2003-2023



Do We Still Value *Living in Harmony with Nature?*

Recommendations

See how The Point responds to 2025 renourishment

Learn from current BOEM funded project

Carefully consider public vs. private interests



Home News Our Coast Science Commentary Special Reports

Bald Head Island seeks to change hardened shorelines law

06/10/2024 by Trista Talton



The Bald Head Island groin field consists of 13 sand-filled geotextile tubes extending seaward from the beach. Photo: Village of Bald Head Island



Good PR?