



Maximizing Regional Sand Management in North Carolina

North Carolina Beach Inlet and Waterway Association (NCBIWA)

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Doug Piatkowski (douglas.Piatkowski@boem.gov)

BOTTOM LINE: Sediment is a Finite Resource that Must be Strategically Identified, Accessed, and Managed





"Sand is the second most consumed natural resource, after water, and must be wisely managed (UNEP, 2022)."



"When people picture sand spread across idyllic beaches and endless deserts, they understandably think of it as an infinite resource"

(The World is Running Out of Sand, Smithsonian Magazine, September 8, 2017)

NC's Changing Sand Paradigm: "ALL HANDS ON DECK"

"Sand is like gold. There are a lot of projects that rely on it, and it's a limited resource." (Miami Herald, November 30, 2022) "Stewardship of sand requires an understanding of how habitat relates to substrate."



"We need to know where

the sand is (and is not) in

order to properly manage

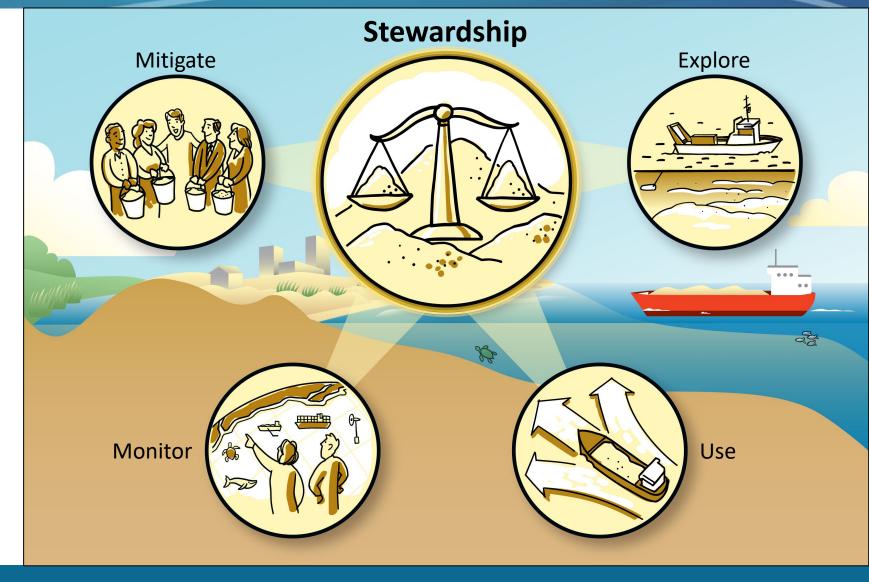
it (BOEM MMP)'

BOEM's Intersection with Coastal Resilience

 Marine Minerals Program ensures stewardship of sand and the environment by:

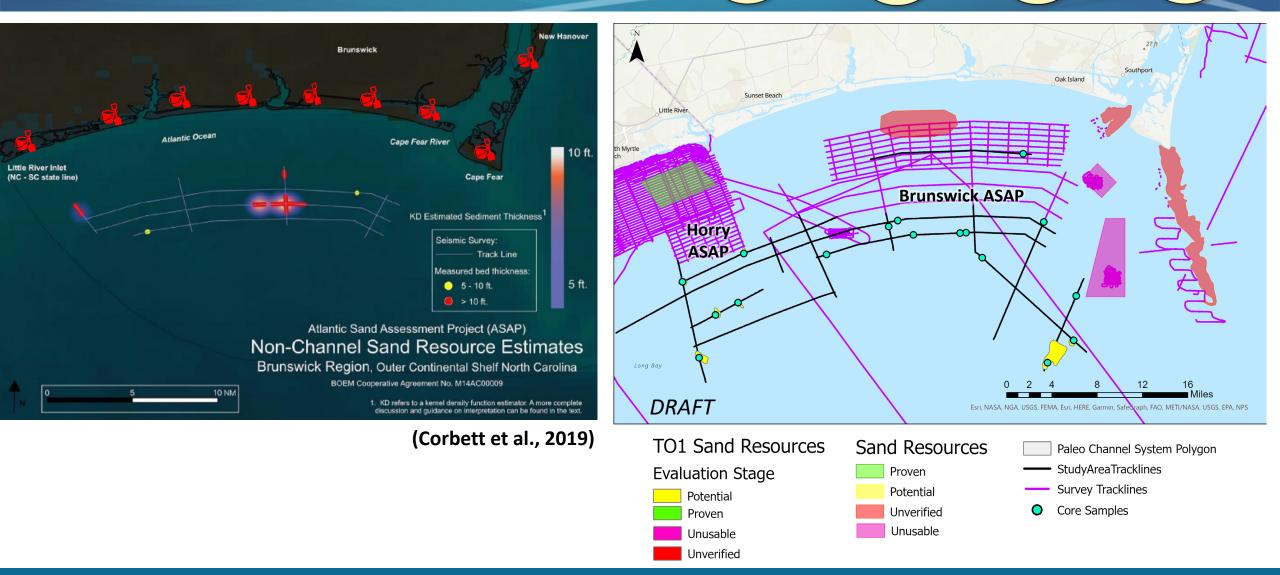
- Help finding where OCS sand is (and is not)
- Facilitating use of OCS sand
- Monitoring sand supply, demand, and use

 Help mitigating conflict along the way

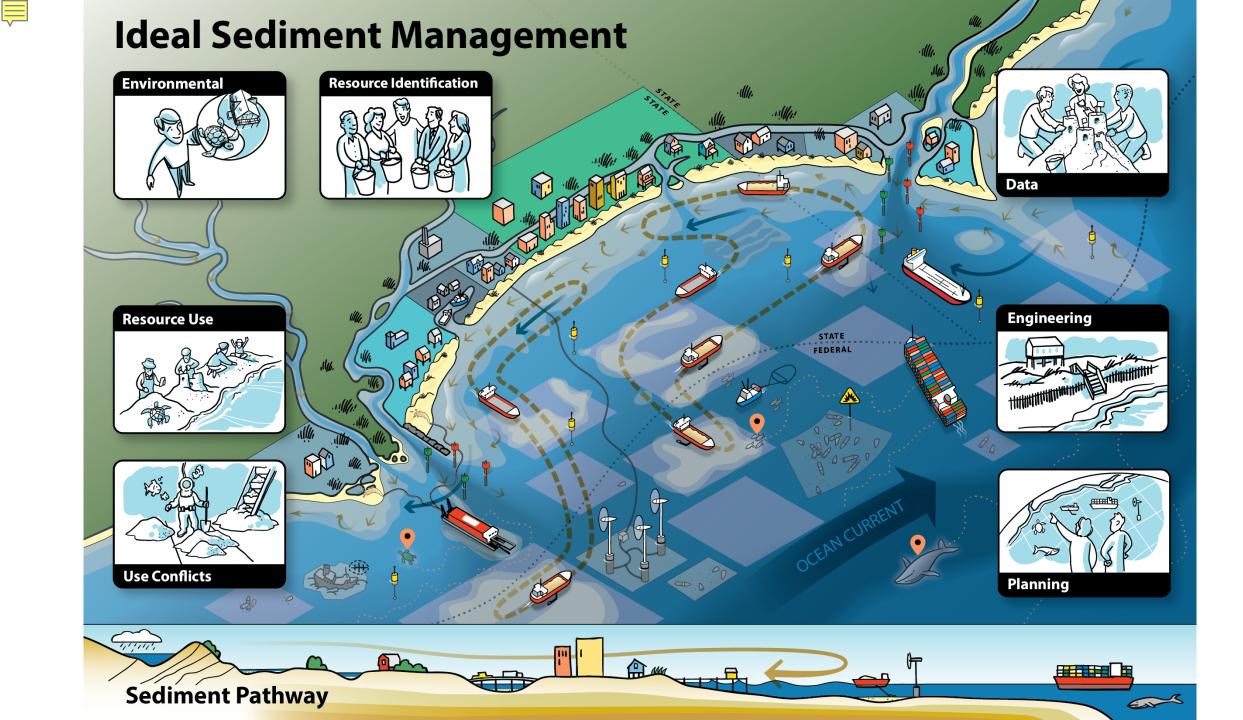




Brunswick/North Myrtle Region







Outlook for the Future



• Long-term considerations:

- <u>Proactive planning</u> to support long-term coastal resilience strategies – "Sand is Gold."
- Inform/Educate Stakeholders towards holistic systemsbased approach – "Strategic Sand Management."
- <u>Balanced Stewardship</u> of sand resources and environmental resources within an increasingly crowded ocean – "informed trade-off analyses."
- $_{\odot}\,$ Key research themes to be addressed:
 - Supply and demand assessments
 - <u>Reconnaissance-level data collection</u>
 - <u>Sediment transport processes</u>

