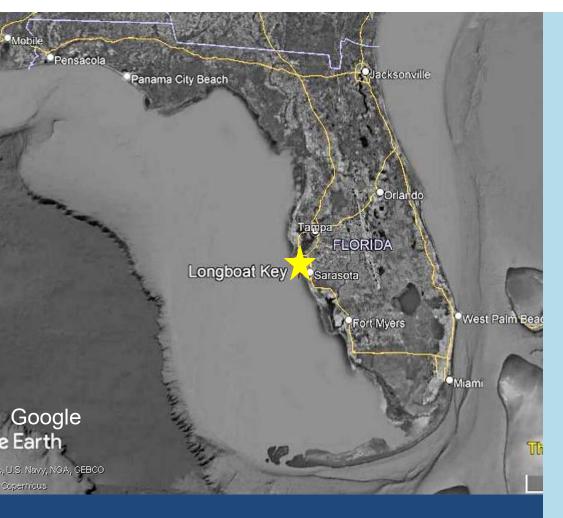
Rock Groin Performance Longboat Key, FL

Krista J. Egan, P.E. Albert E. Browder, Ph.D., P.E. Sergio A. Peña, E.I. Charlie Mopps





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Location

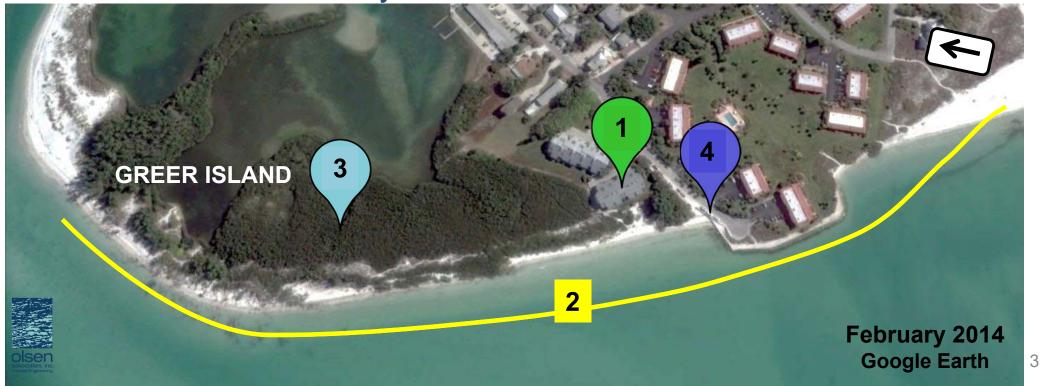


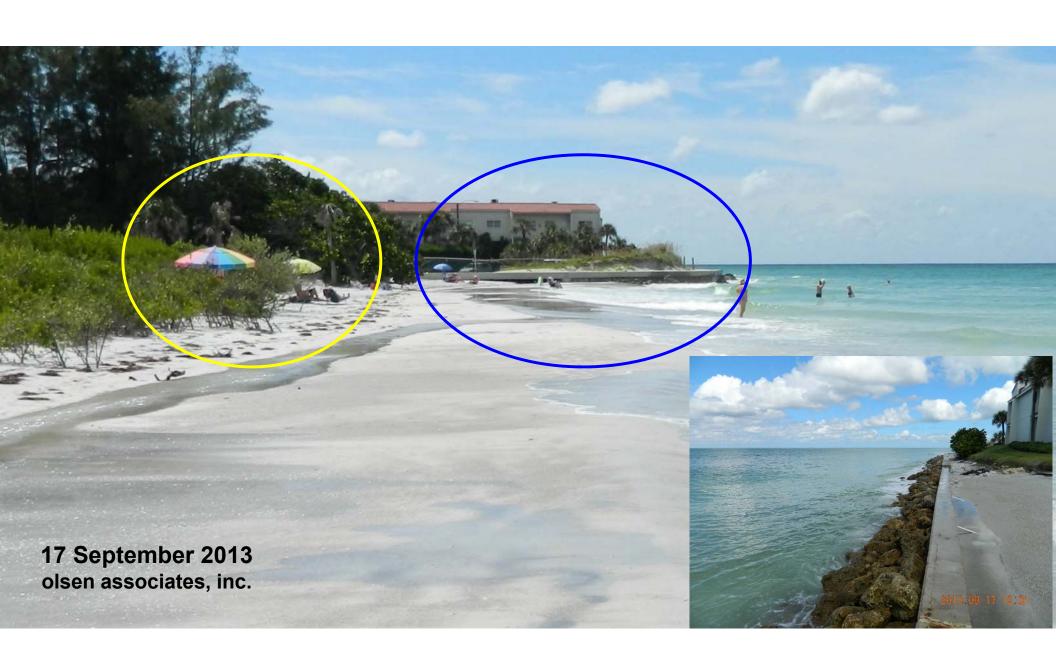


Goals

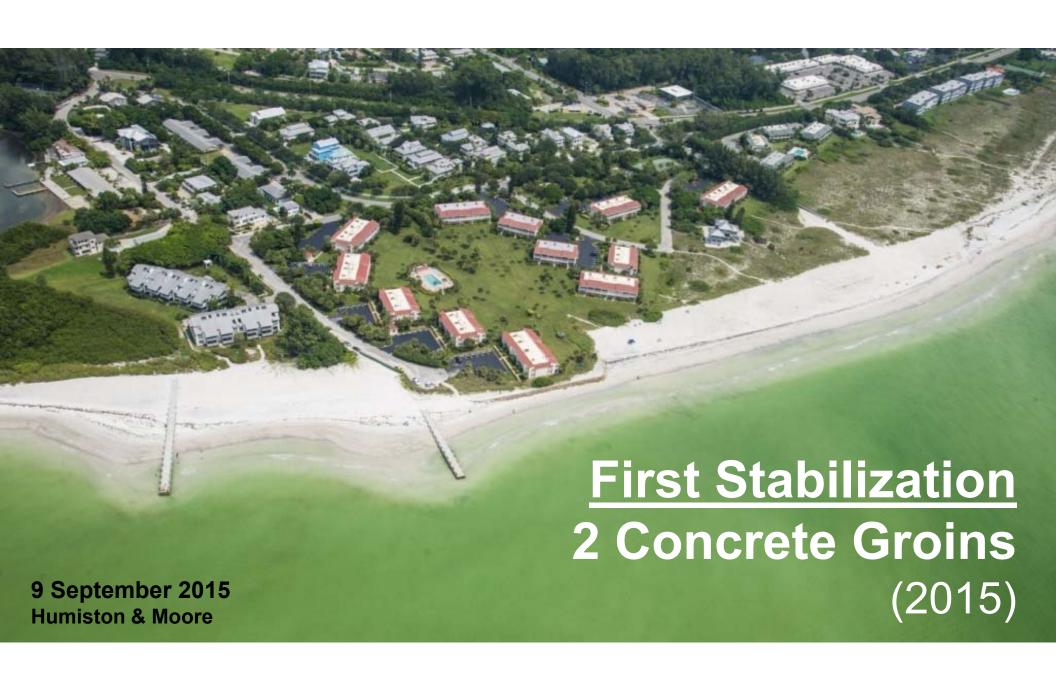
- 1. Storm protection for condo
- 2. Recreational amenity

- 3. Preserve natural resources
- 4. Protect Road

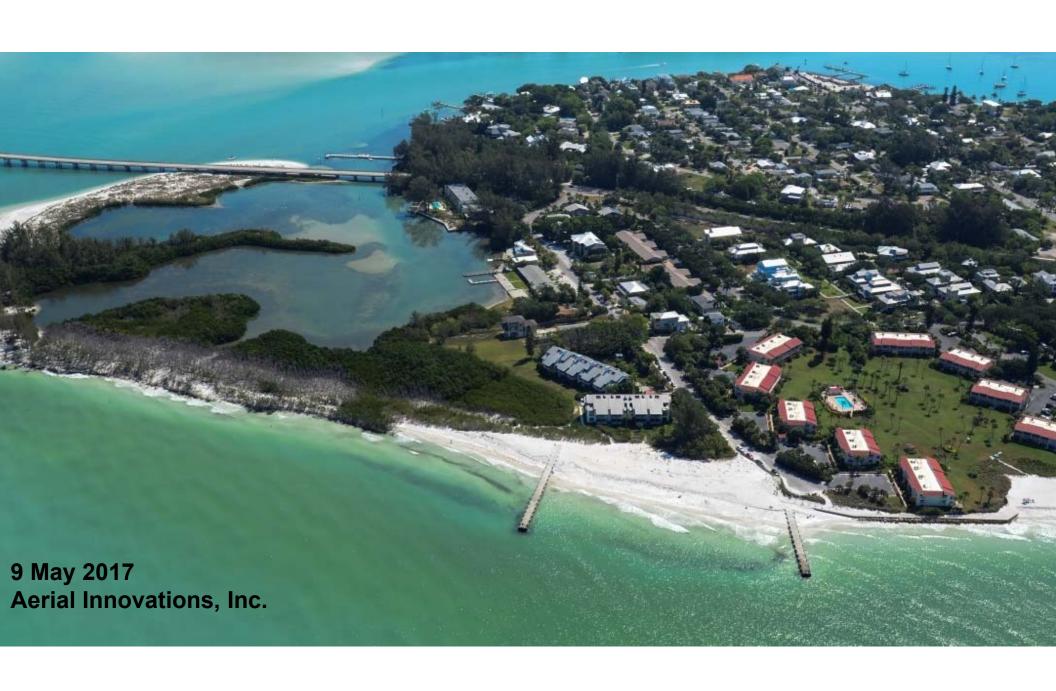


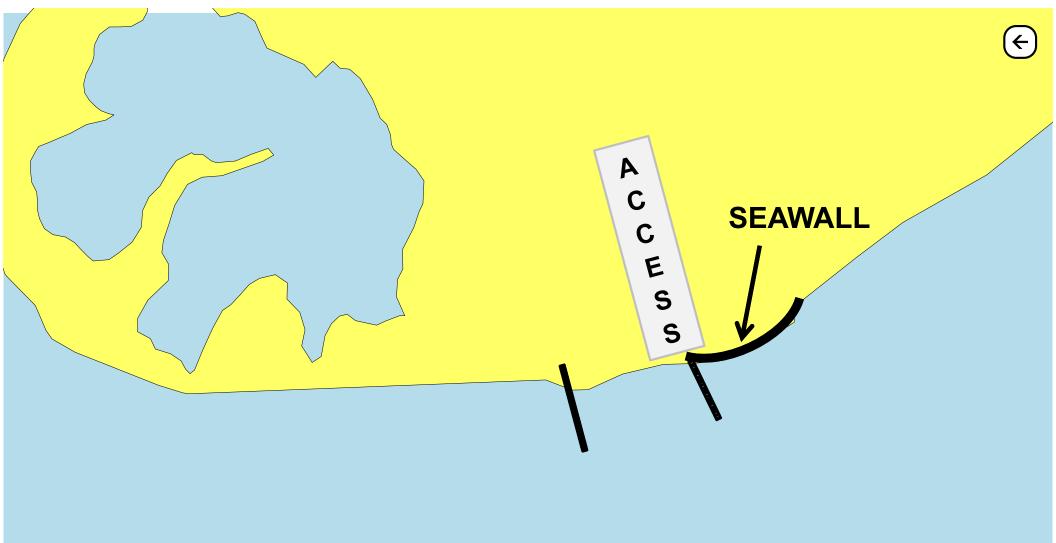




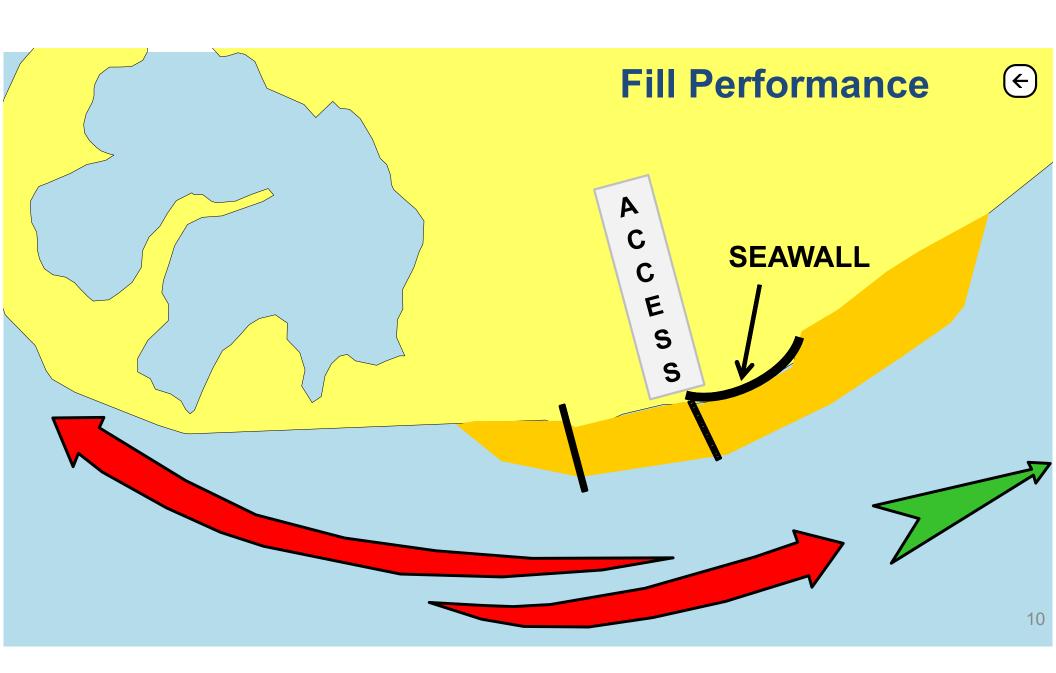


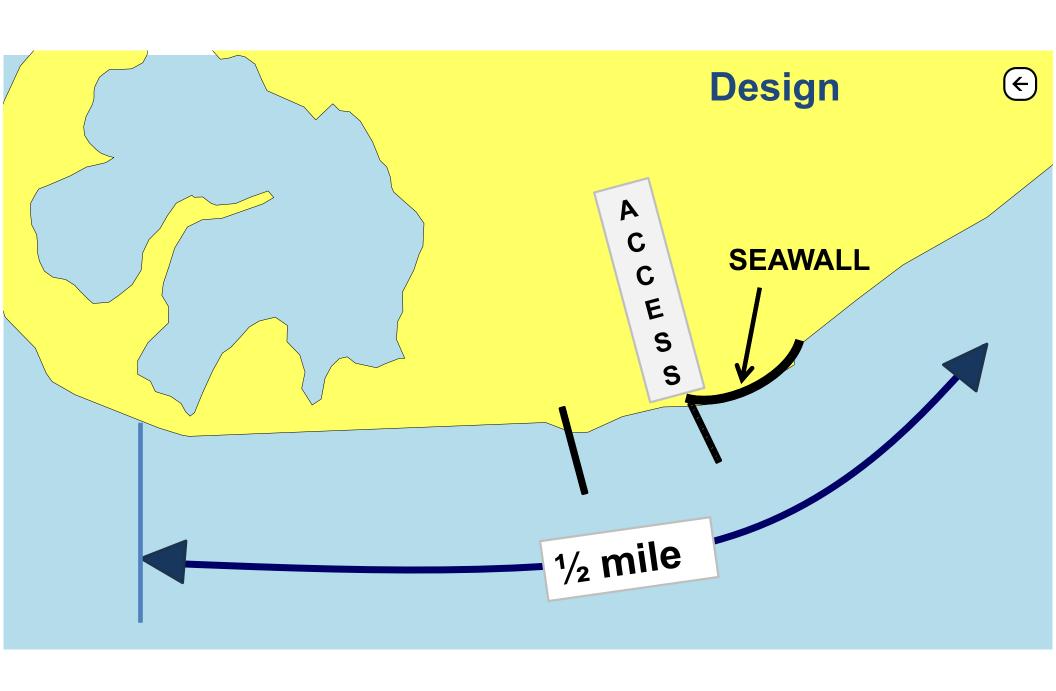


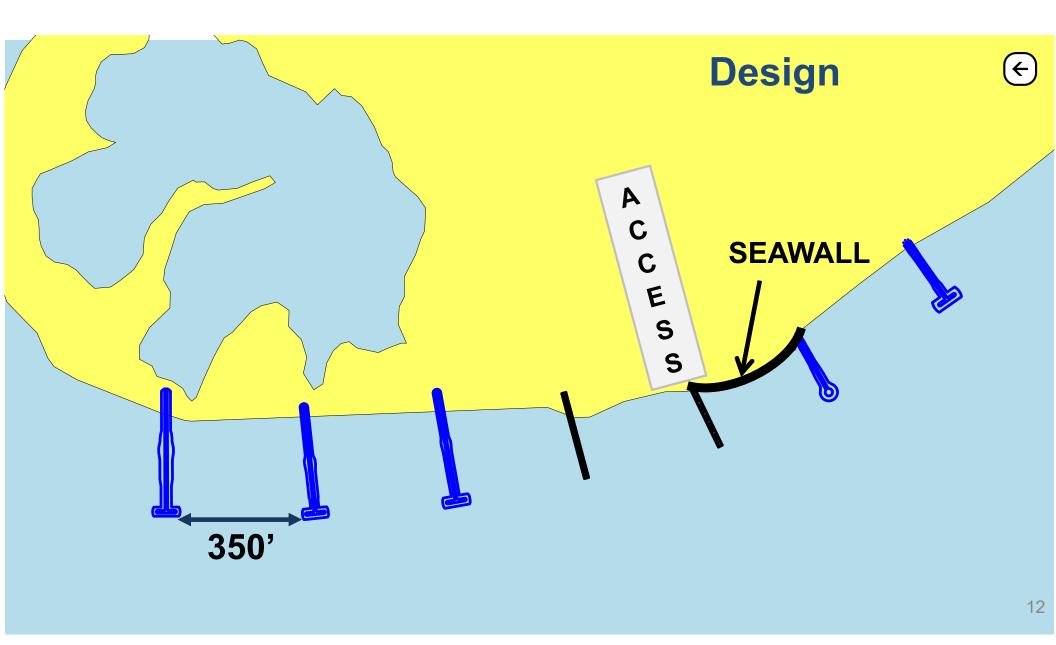


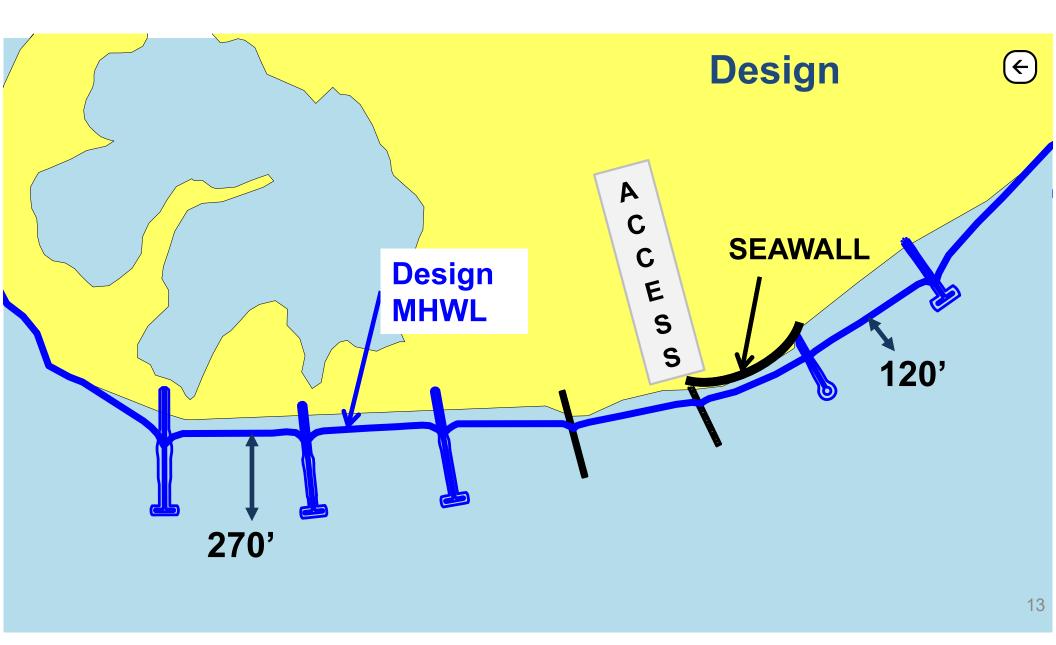


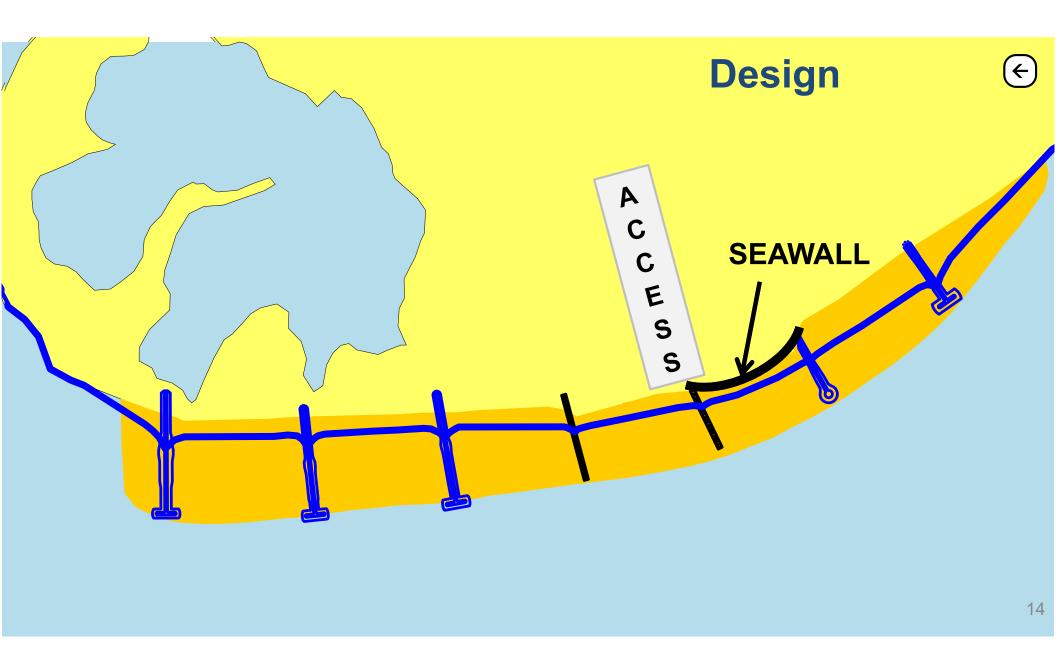
GULF OF MEXICO



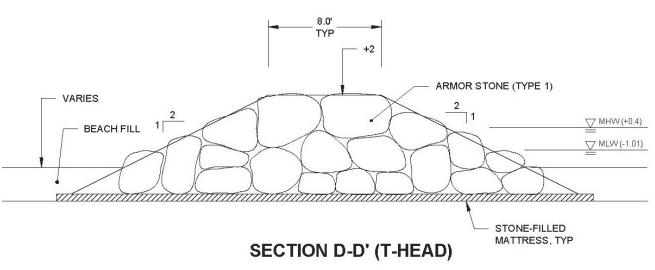


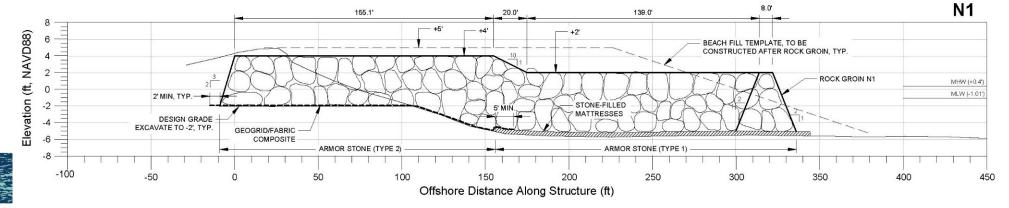
















2020 Post-Eta (Pre-Construction)





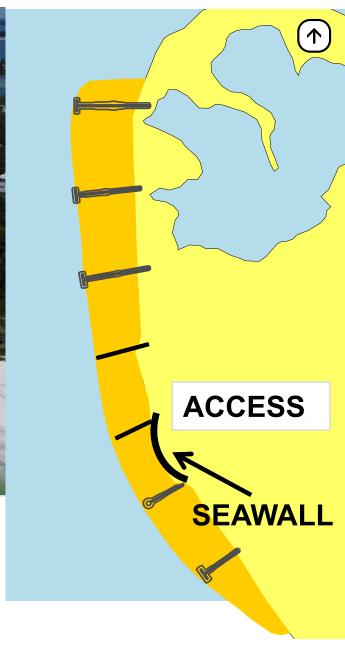
2021 Completed Groins (Pre-Fill)





2021 POST-CON







2021 POST-CON







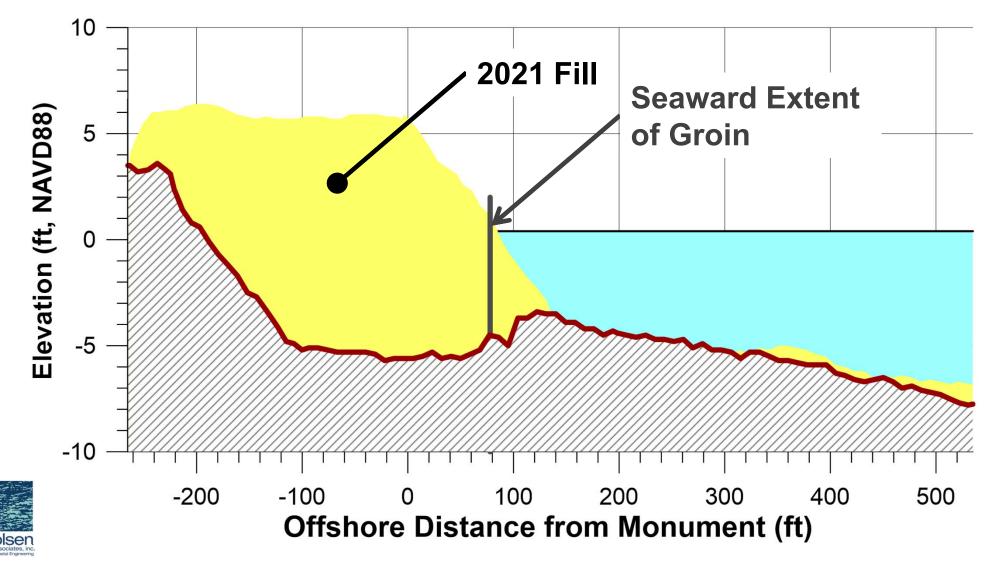
Olsen associates rice. Constate free rice.

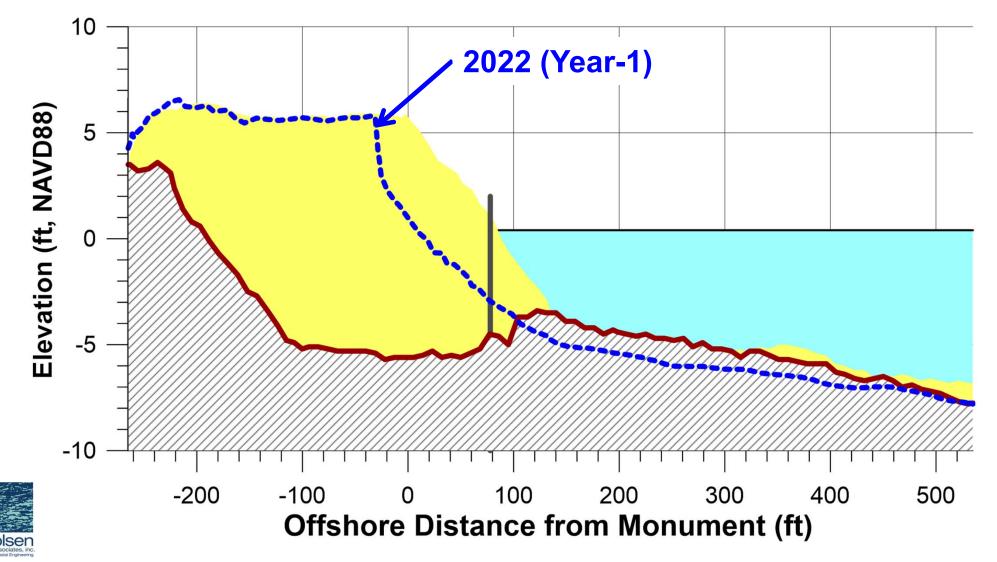


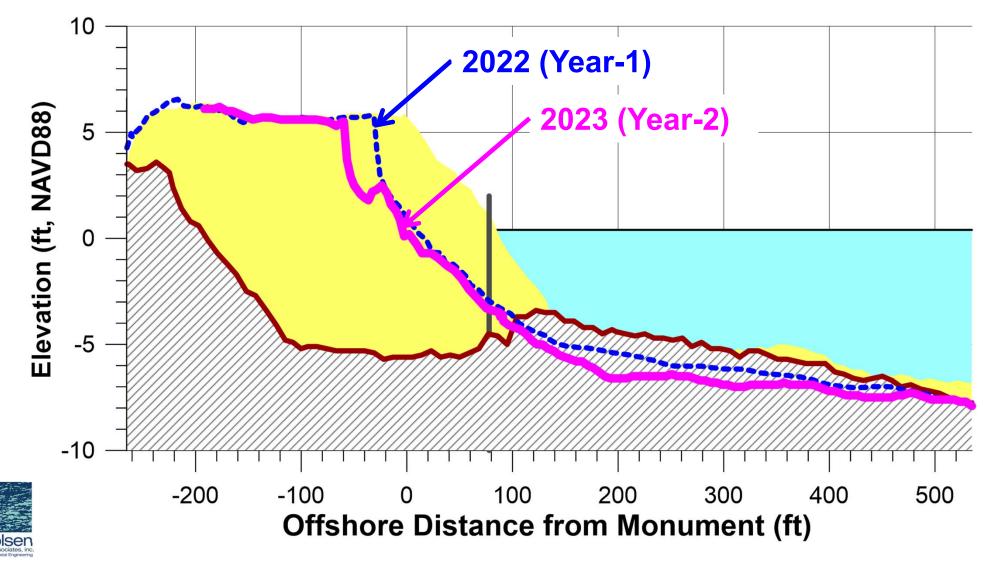


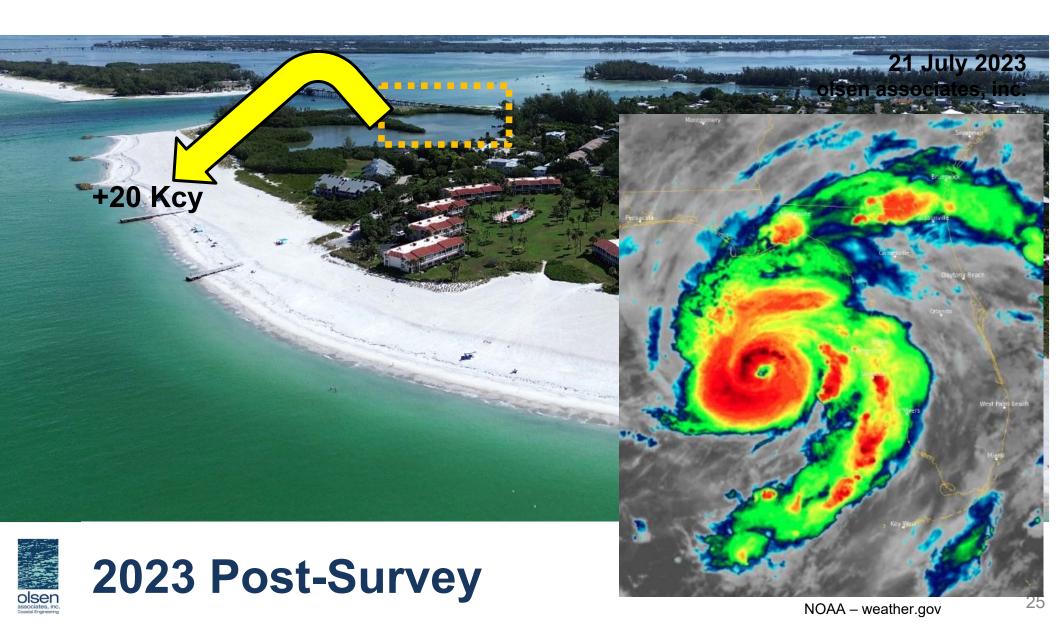


2023 (YEAR-2)









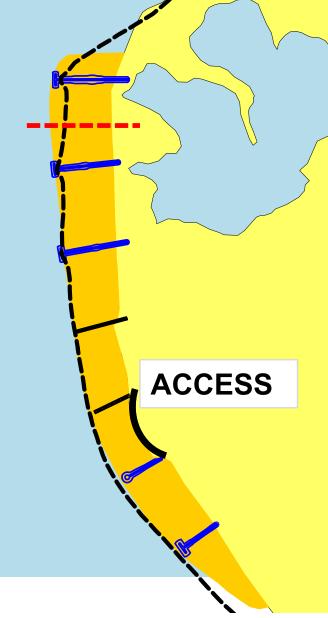




2023 Post-Idalia

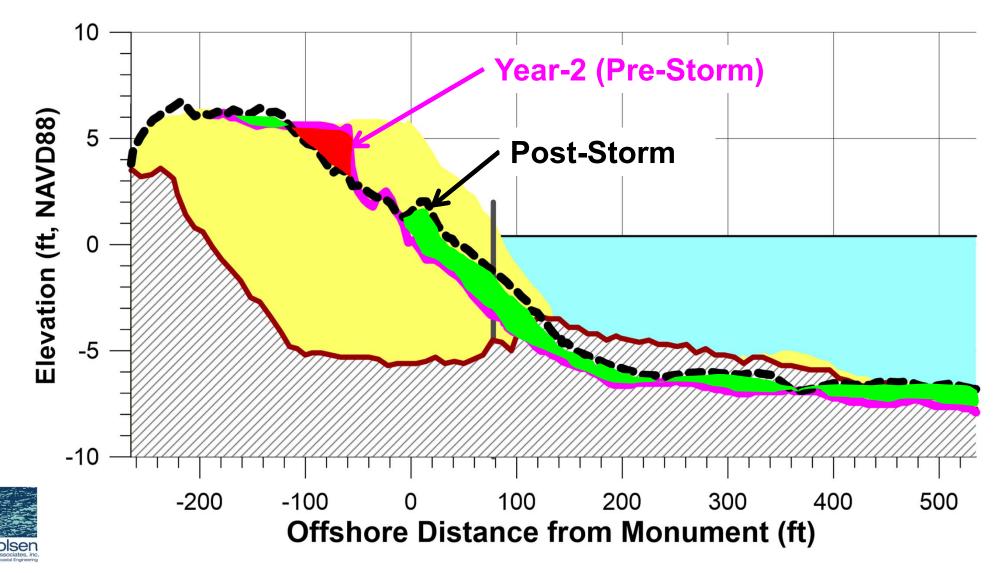
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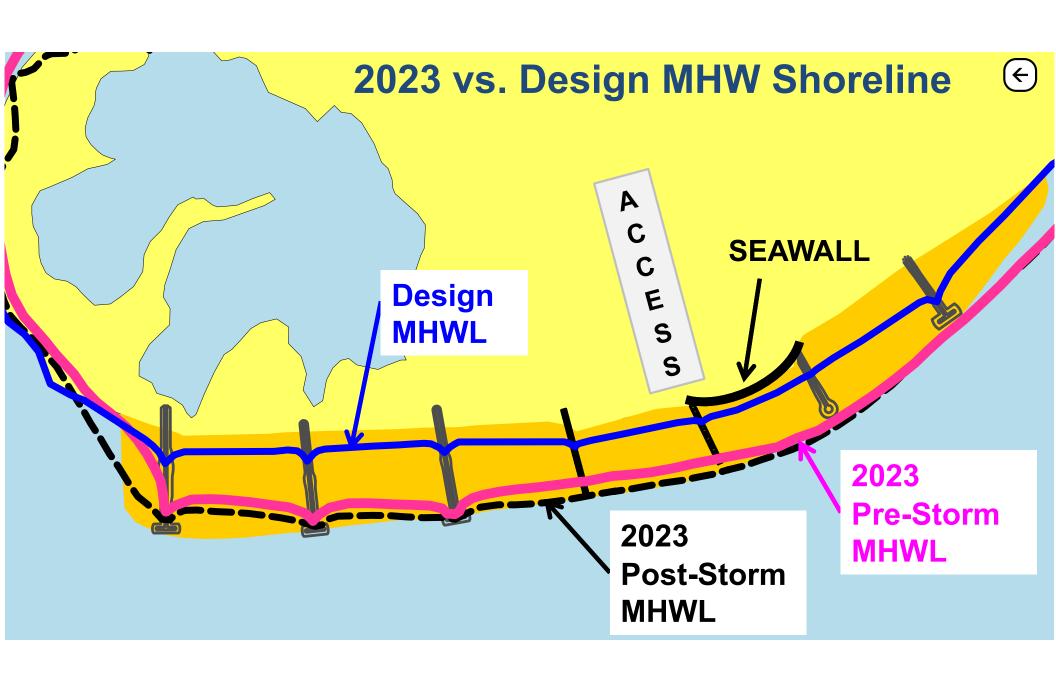


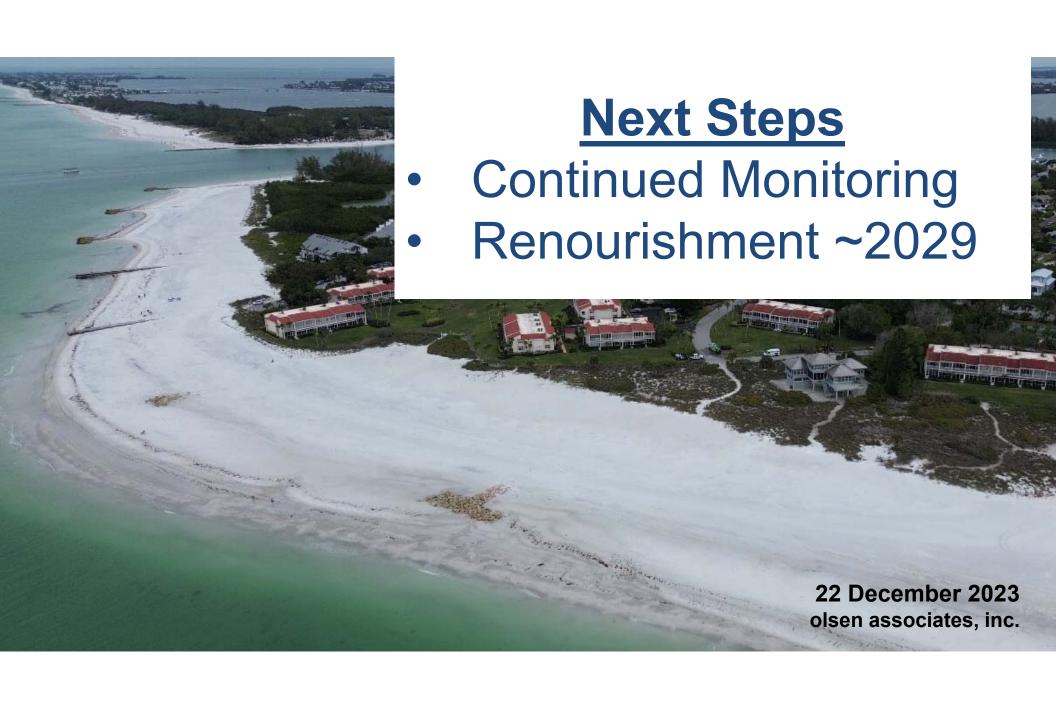




2023 Post-Idalia







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