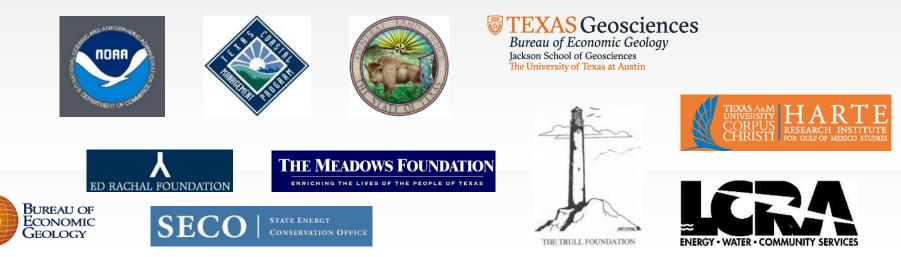
Texas High School Coastal Monitoring Program at Cunningham Middle School at South Park: 2021-2022

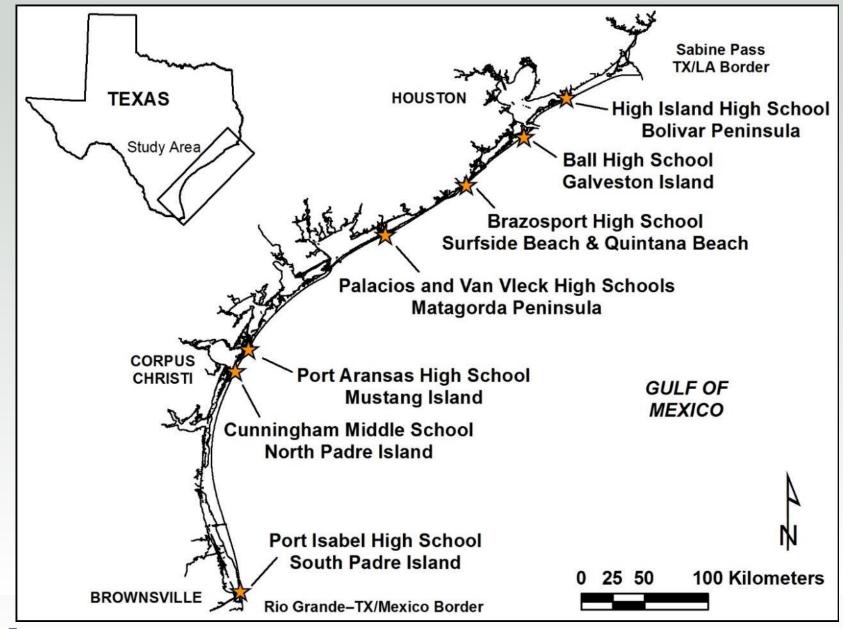
July 2022



Texas High School Coastal Monitoring Program

- Provide high school students with a real-world learning experience by monitoring the beach and dune environment.
- Obtain a better understanding of the relationship between coastal processes, beach morphology, and shoreline change
- Increase public awareness and understanding of coastal change, processes, and hazards by making data and findings available for coastal managers and scientists, students and teacher, and the general public.







Student Collected Data

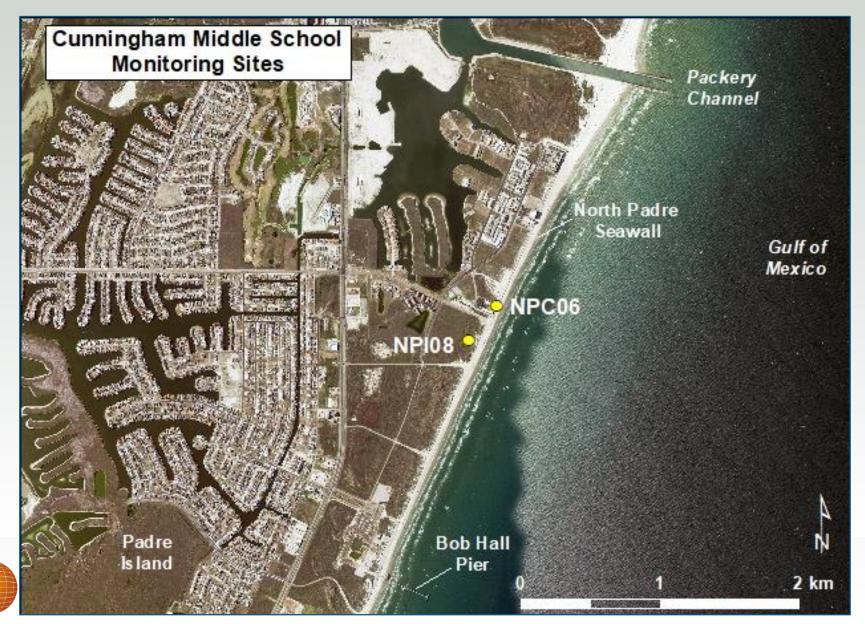
- Topographic transect oriented perpendicular to the shoreline
 - measured from the same starting point landward of the foredune and oriented in the same direction.
- Estimates of processes acting on the beach
 - wind direction and speed; wave direction, height, and period; and longshore current direction and speed
- GPS survey of the vegetation line and shoreline
 - quantitative data on the position of the shoreline and vegetation line







Northern Padre Island Study Sites



2021-2022 field trips

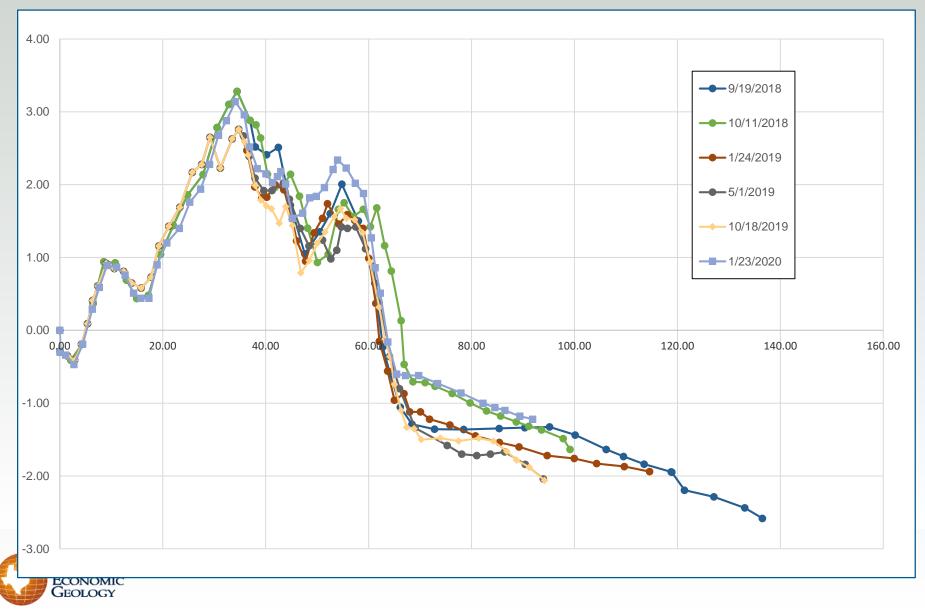
January 27, 2022

April 21, 2022

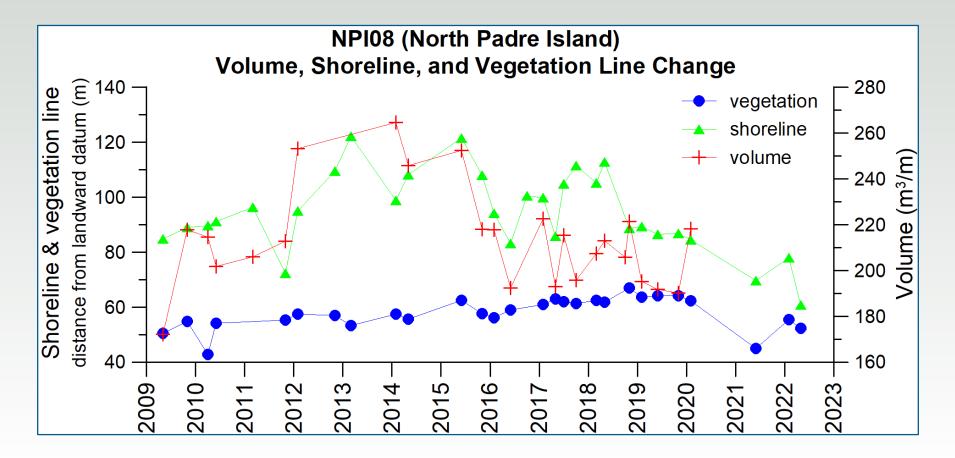




NPI08: fall 2018-winter 2020



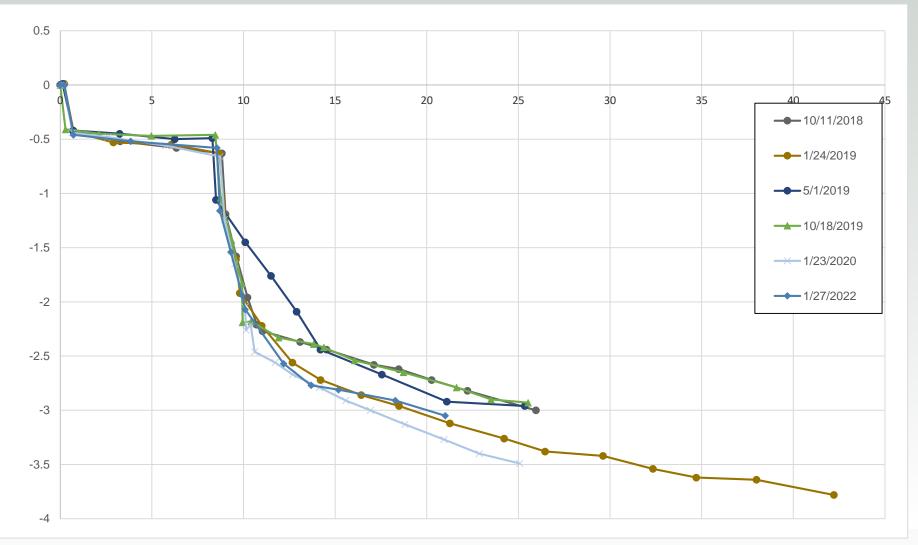
NPI08: shoreline, vegetation line, and volume changes



Sediment volume was calculated above 1 meter NAVD88.

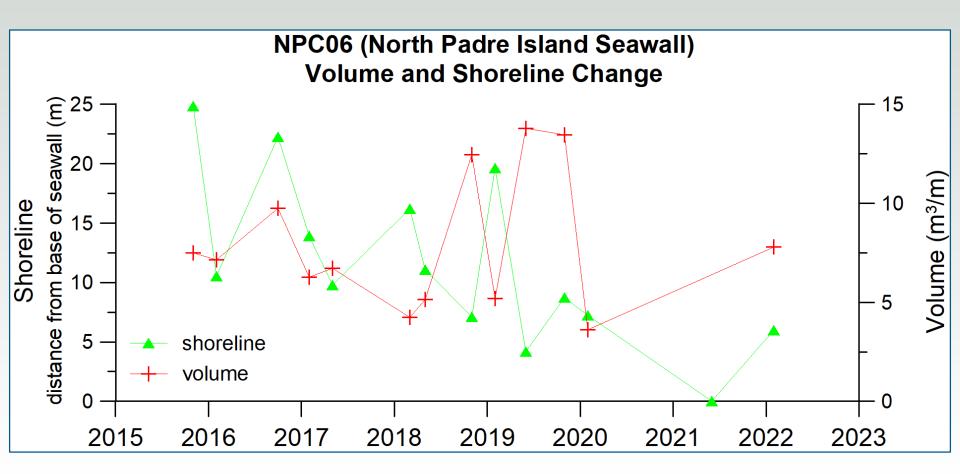


NPC06: fall 2018-winter 2022





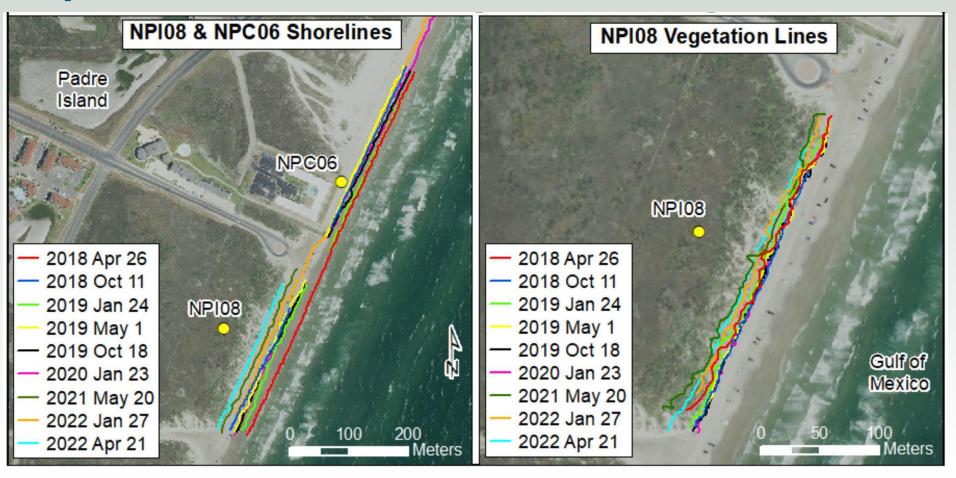
NPC06: shoreline, vegetation line, and volume changes





Sediment volume was calculated above 1 meter NAVD88.

NPI08 & NPC06 shore and vegetation line positions





Seawall shoreline position



