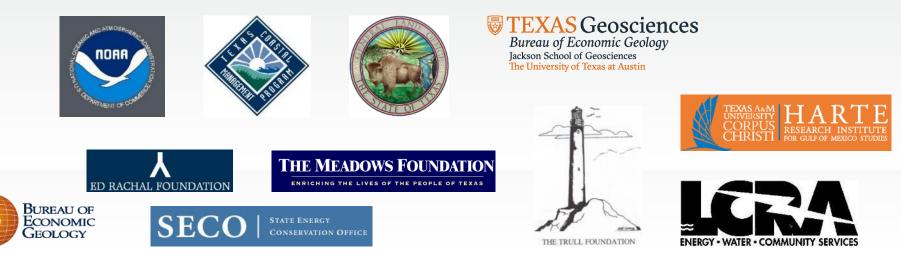
Texas High School Coastal Monitoring Program at Brazosport High School: 2022-2023

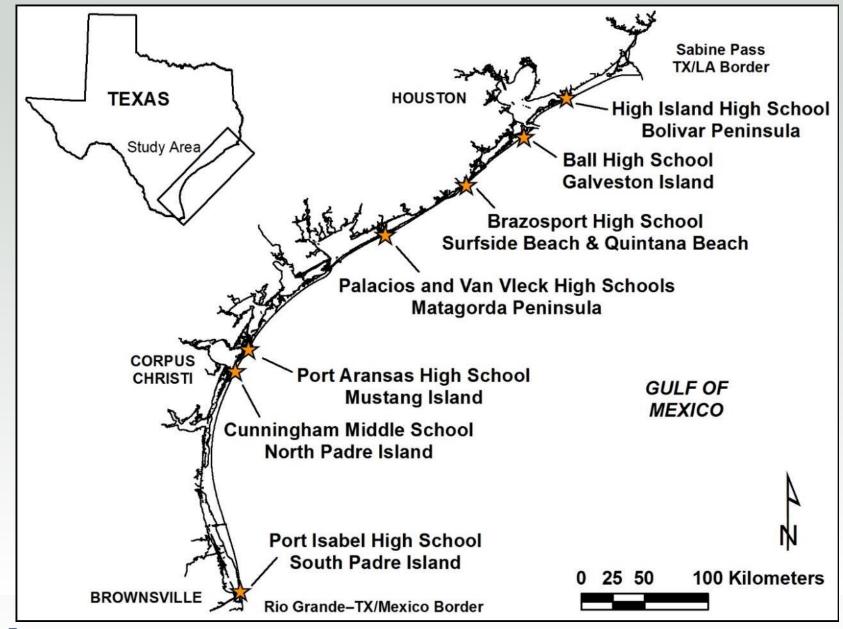
July 2023



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

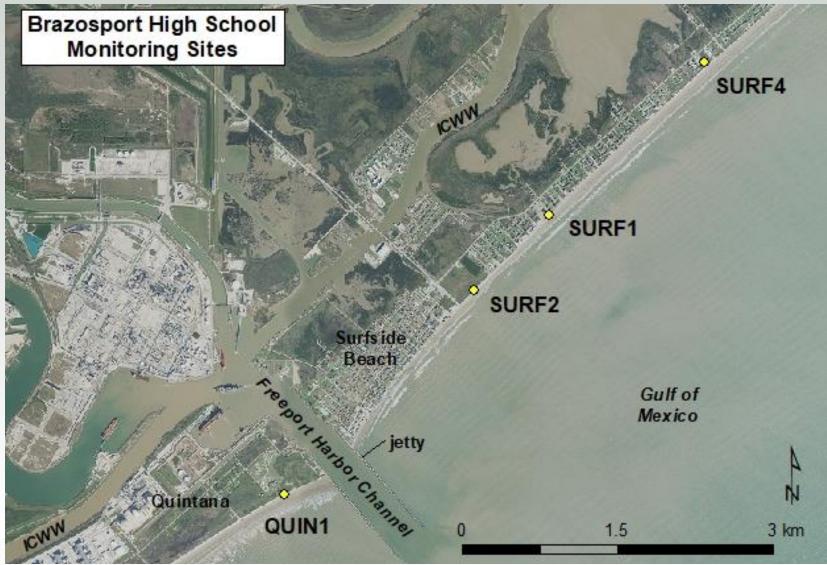
- Topographic transect oriented perpendicular to the shoreline
 - measured from the same starting point landward of the foredune and oriented in the same direction.
- Estimates of processes acting on the beach
 - wind direction and speed; wave direction, height, and period; and longshore current direction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







Surfside & Quintana Study Sites

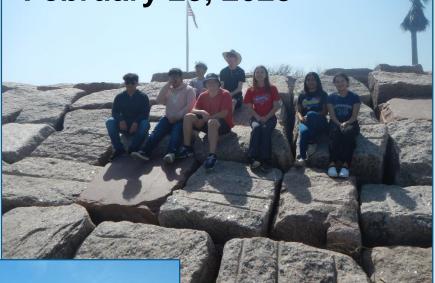




2022-2023 field trips



February 23, 2023

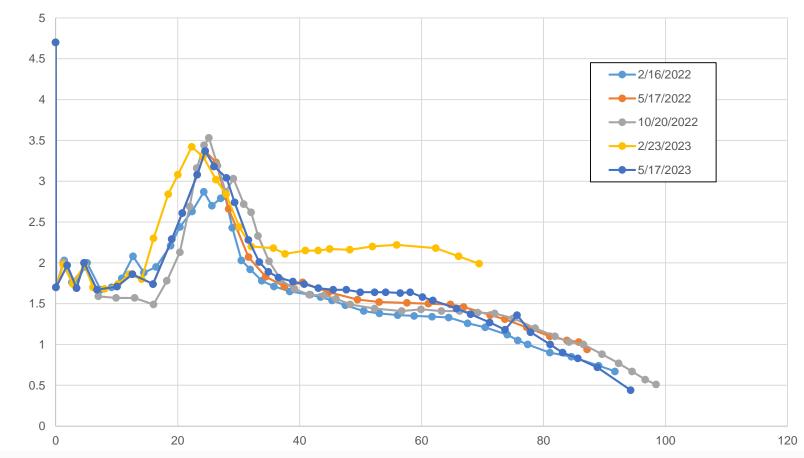


May 17, 2023



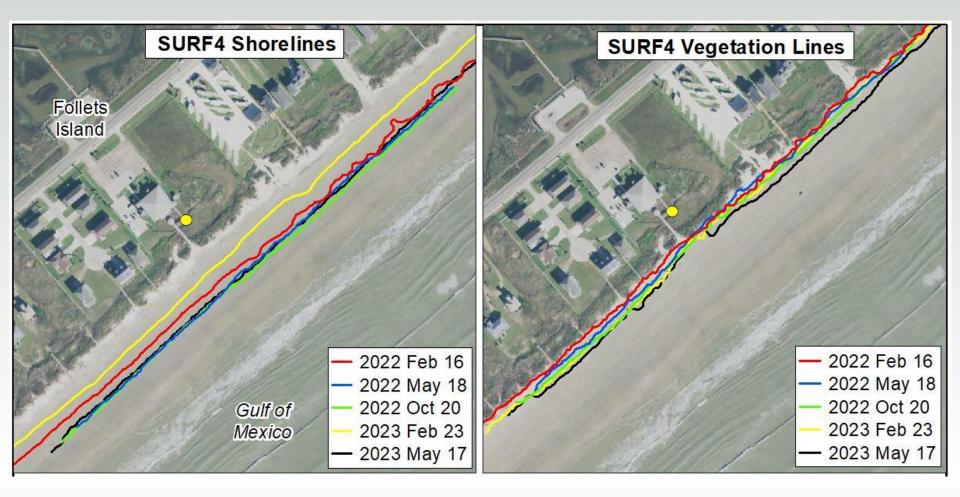


SURF4: winter 2022-spring 2023



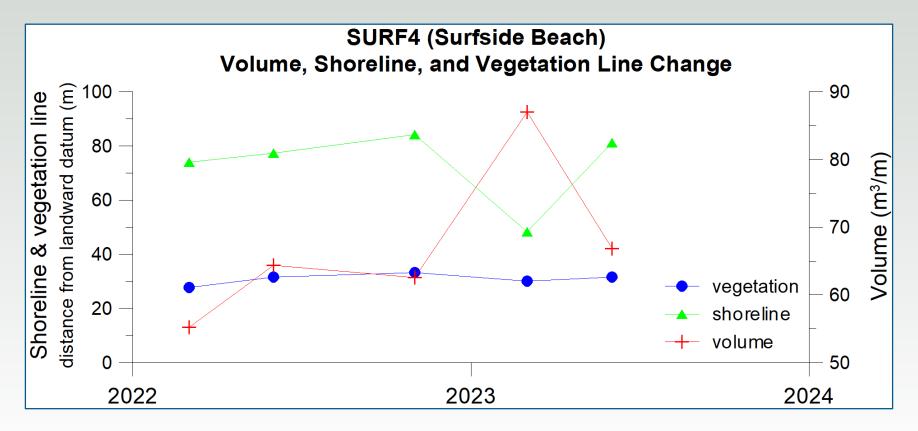


SURF4 shore and vegetation line positions



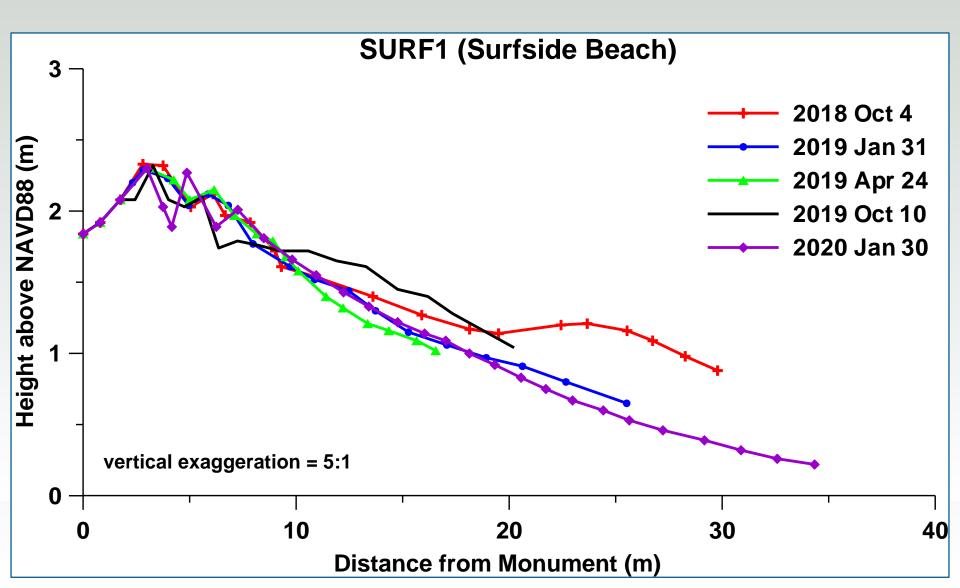


SURF4: shoreline, vegetation line, and volume changes

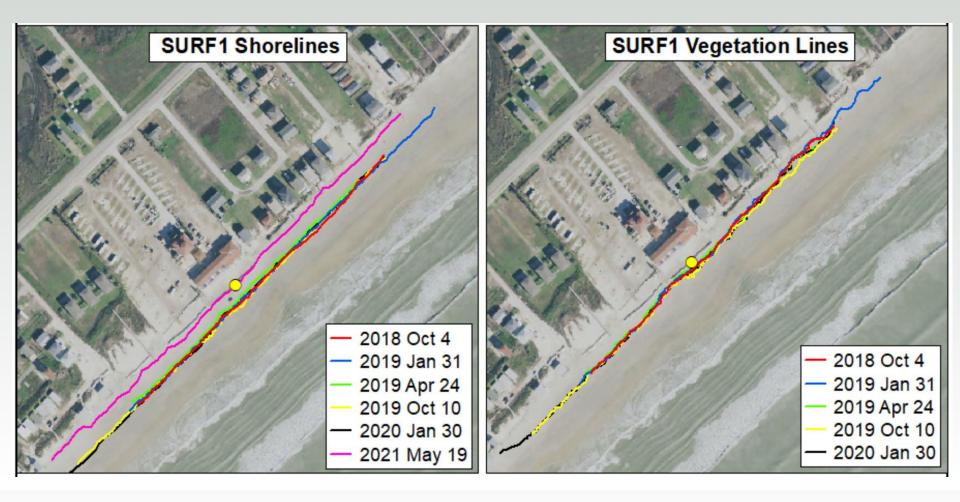




SURF1: fall 2018-winter 2020

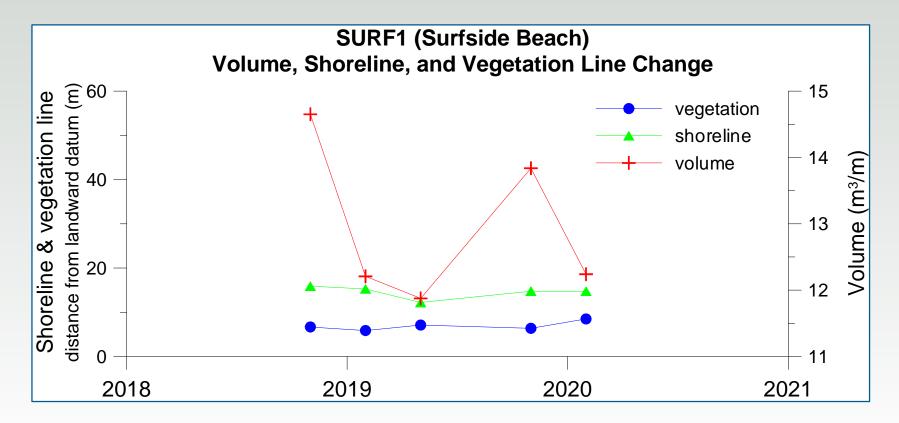


SURF1 shore and vegetation line positions



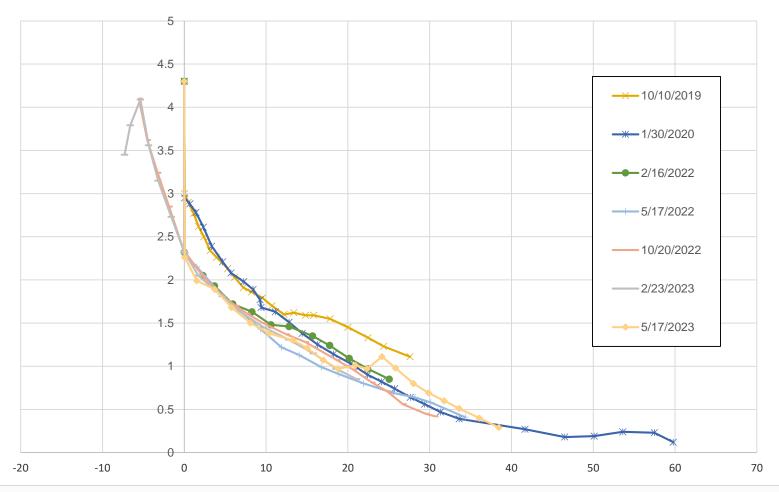


SURF1: shoreline, vegetation line, and volume changes



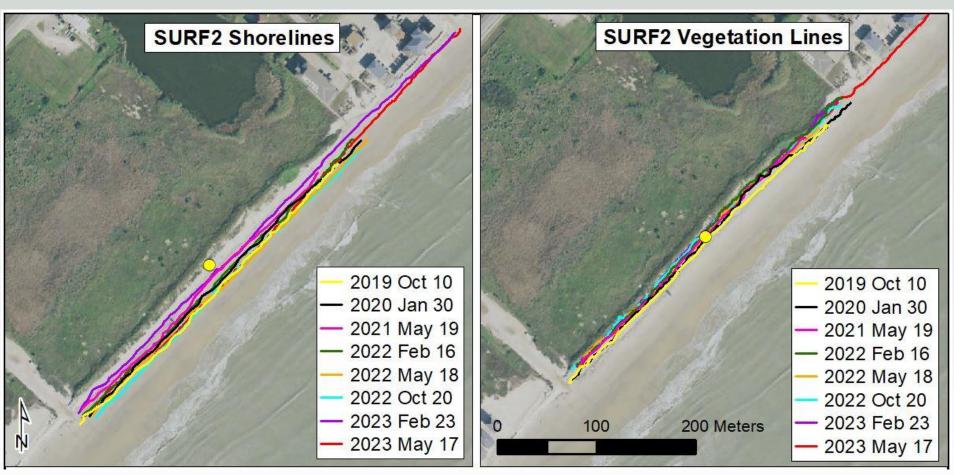


SURF2: fall 2018-spring 2022



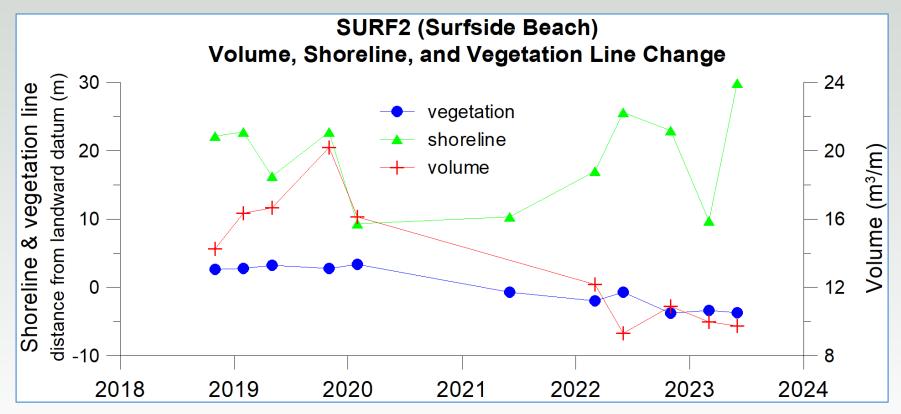


SURF2 shore and vegetation line positions



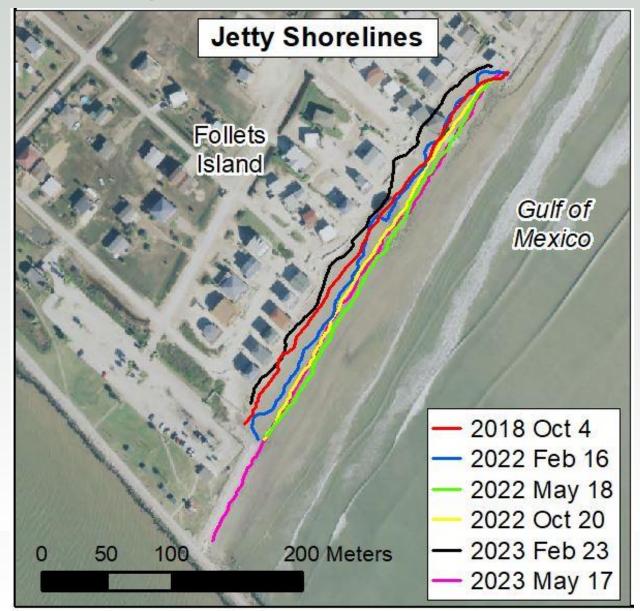


SURF2: shoreline, vegetation line, and volume changes



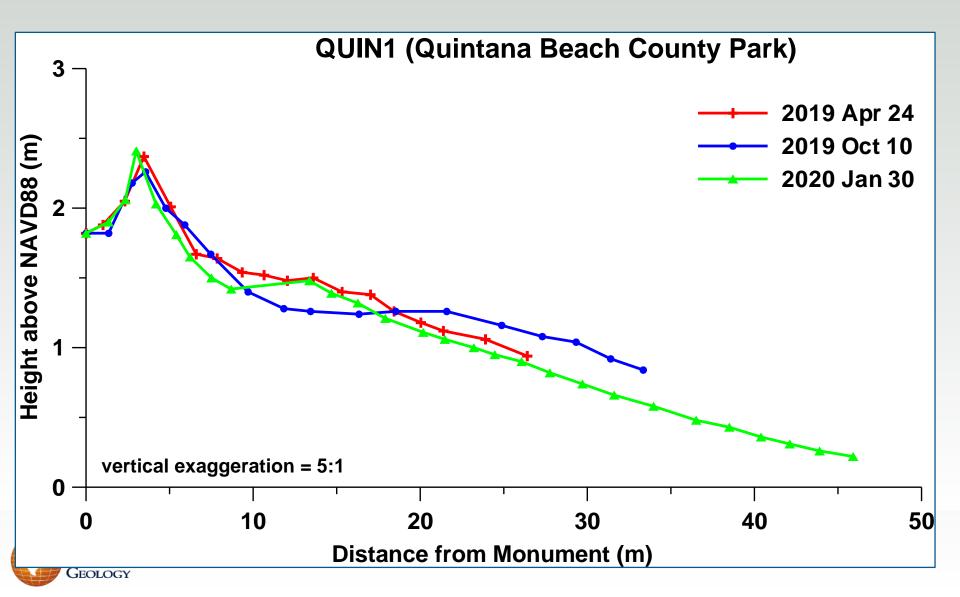


Jetty shoreline positions

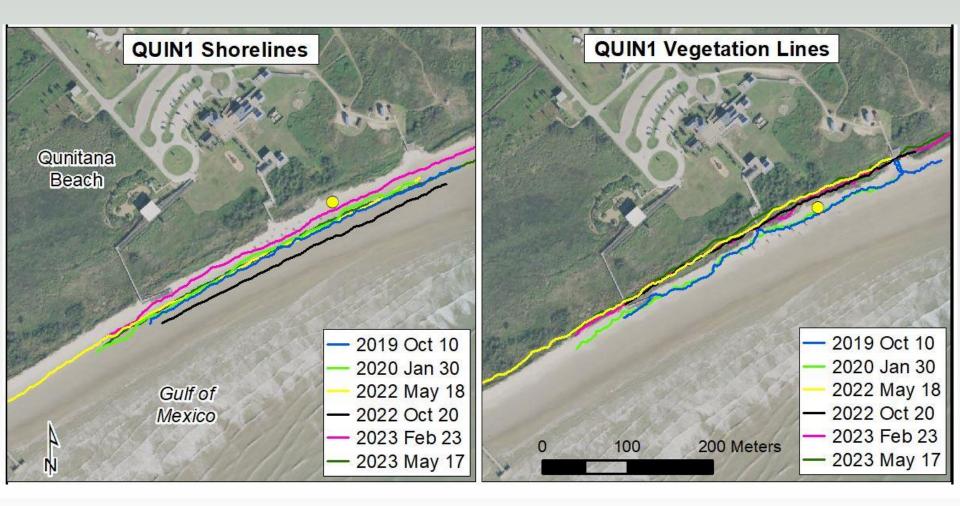




QUIN1: spring 2019-winter 2020



QUIN1 shore and vegetation line positions





QUIN1: shoreline, vegetation line, and volume changes

