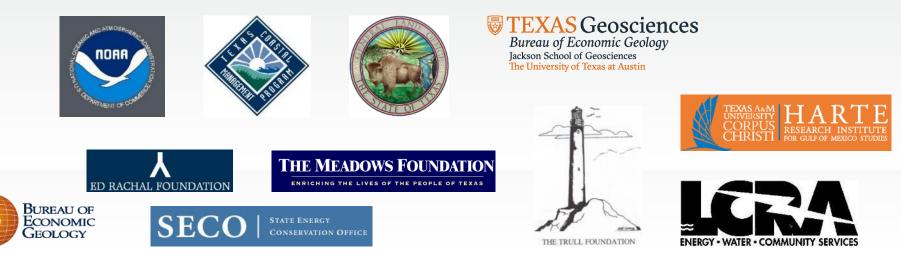
## Texas High School Coastal Monitoring Program at Ball High School: 2021-2022

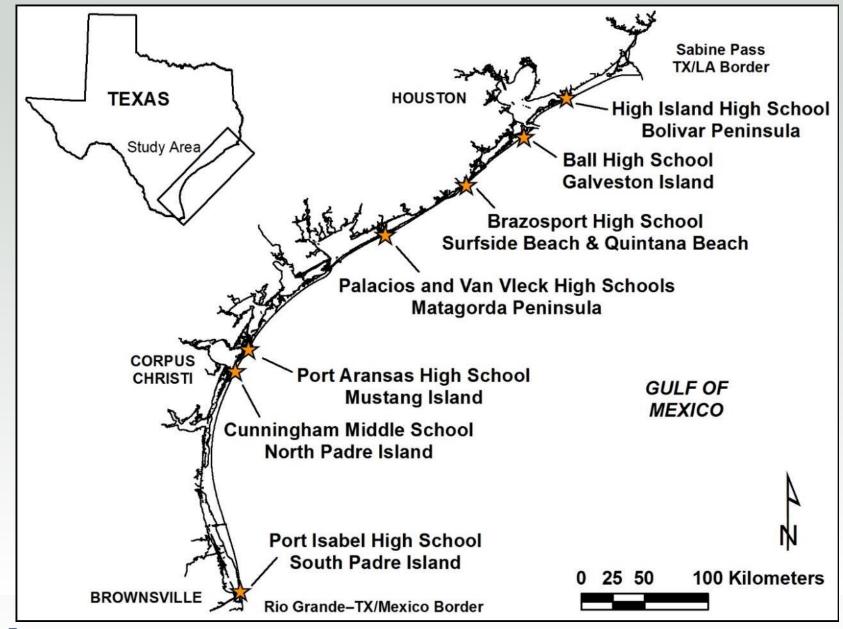
July 2022



### 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









### 2021-2022 field trips

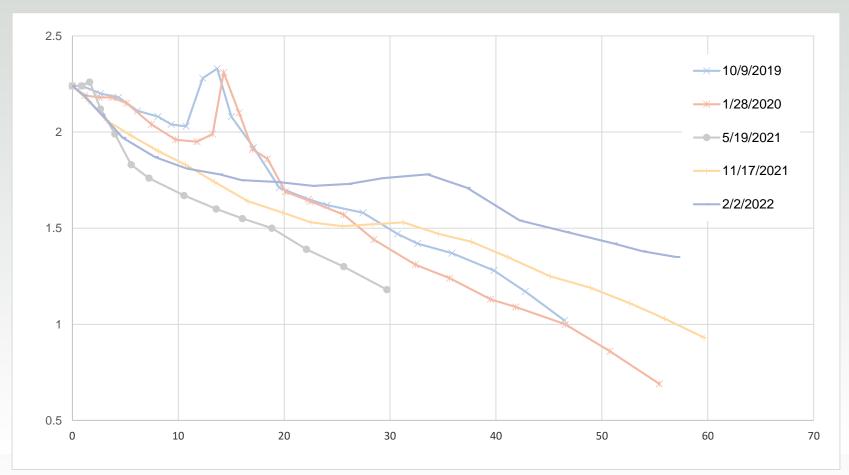
#### November 17, 2021

#### February 2, 2022



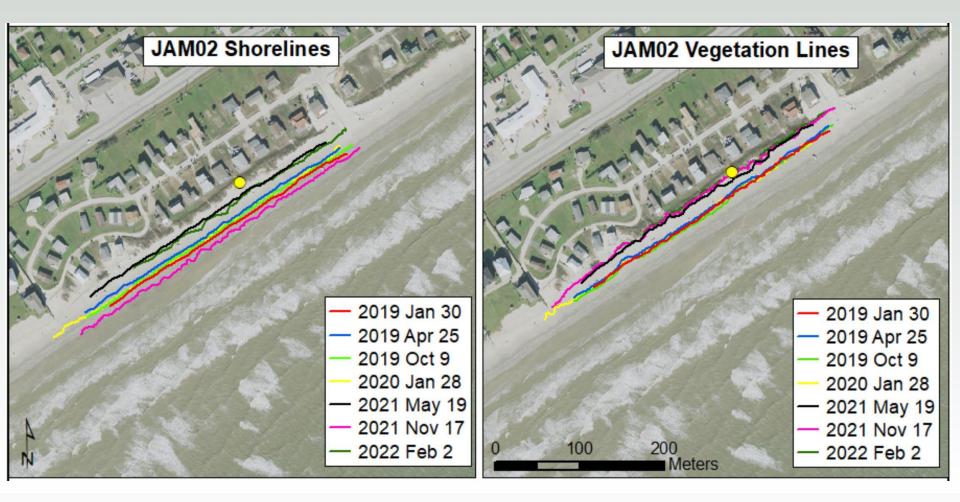


### JAM02: fall 2019-winter 2022



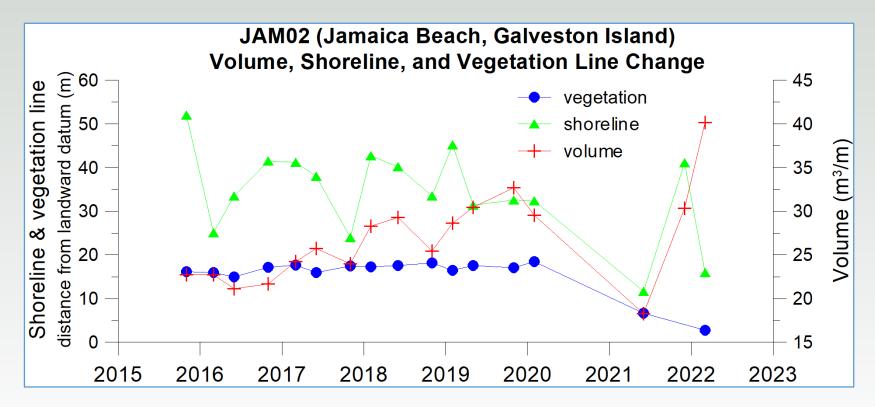


### **JAM02** shore and vegetation line positions





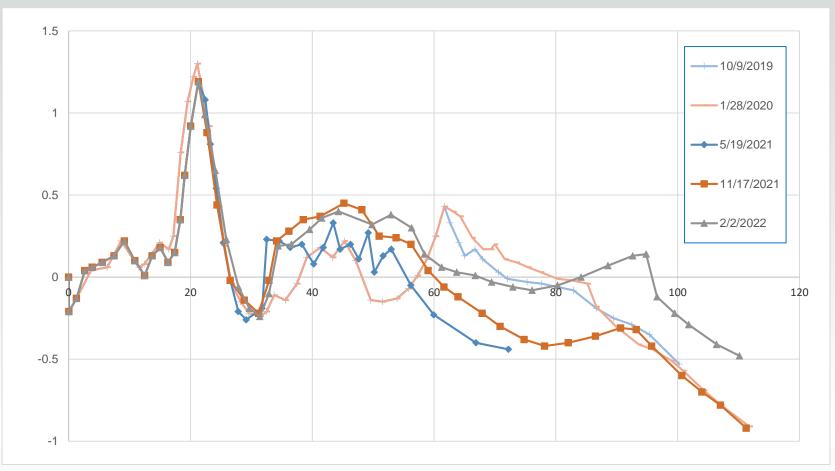
## JAM02: shoreline, vegetation line, and volume changes



Sediment volume was calculated above 1 meter NAVD88.

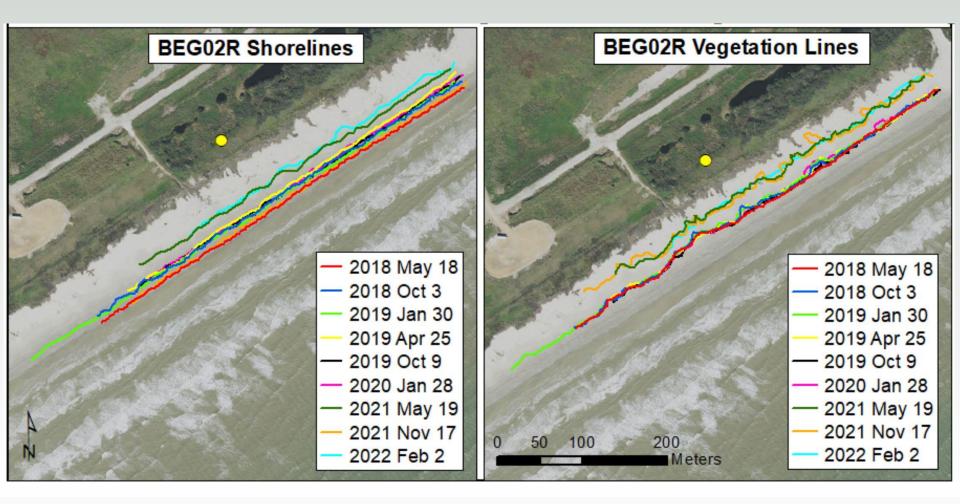


#### **BEG02: fall 2019-winter 2022**



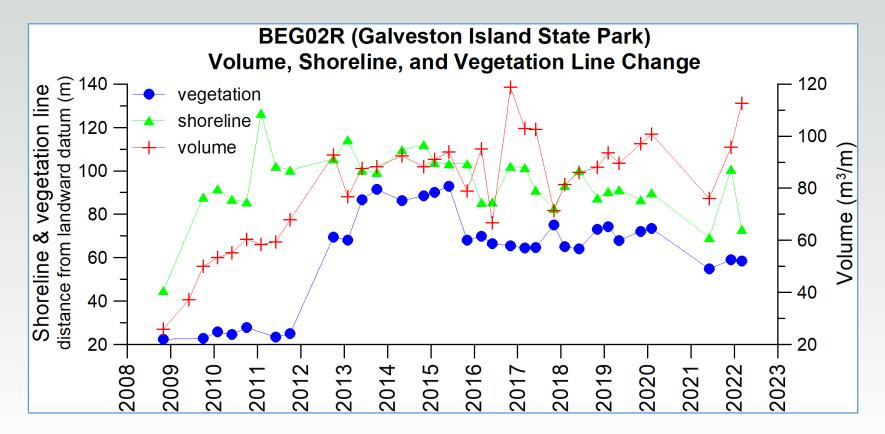


### **BEG02** shore and vegetation line positions





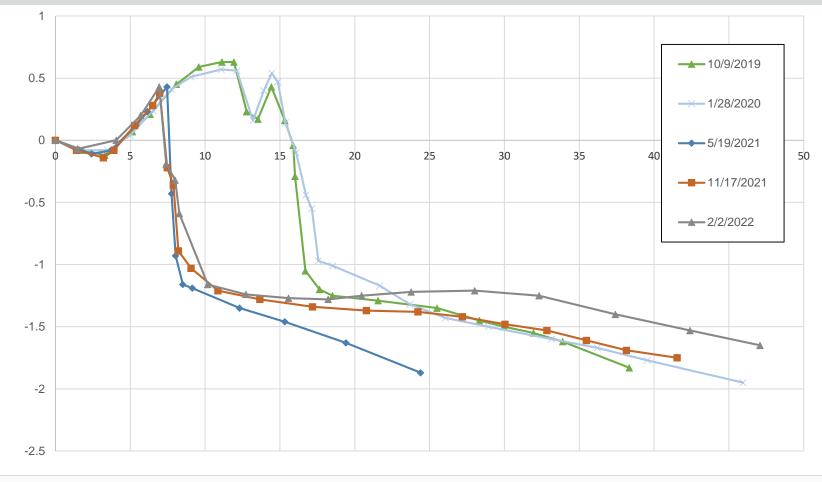
# **BEG02: shoreline, vegetation line, and volume changes**



Sediment volume was calculated above 1 meter NAVD88.

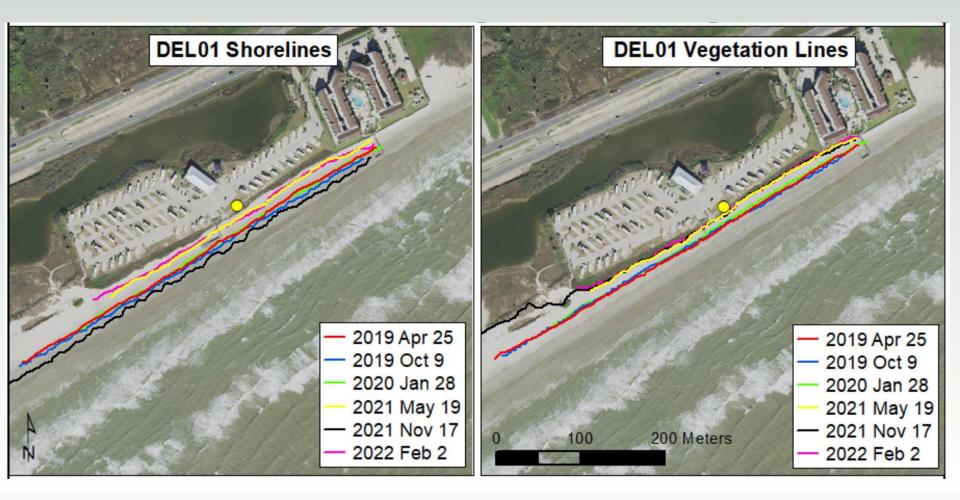


### **DEL01: fall 2019-winter 2022**



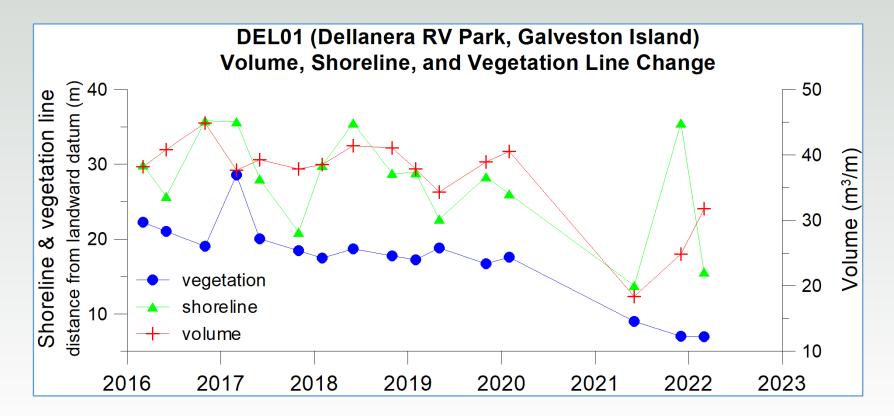


### **DEL01** shore and vegetation line positions





# **DEL01: shoreline, vegetation line, and volume changes**



Sediment volume was calculated above 1 meter NAVD88.



### **Babe's Beach shoreline positions**

