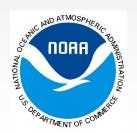
Texas High School Coastal Monitoring Program

Examination of Data Collected from Student Monitored Study Sites Along the Texas Coast



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.





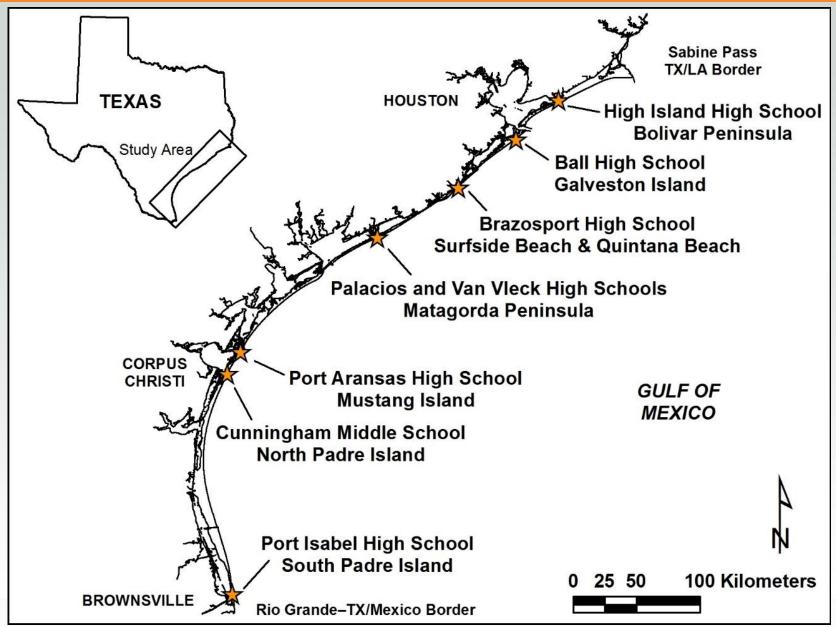














Student Collected Data

- Topographic transect oriented perpendicular to the shoreline
 - measured from the same starting point landward of the foredune and oriented in the same direction.



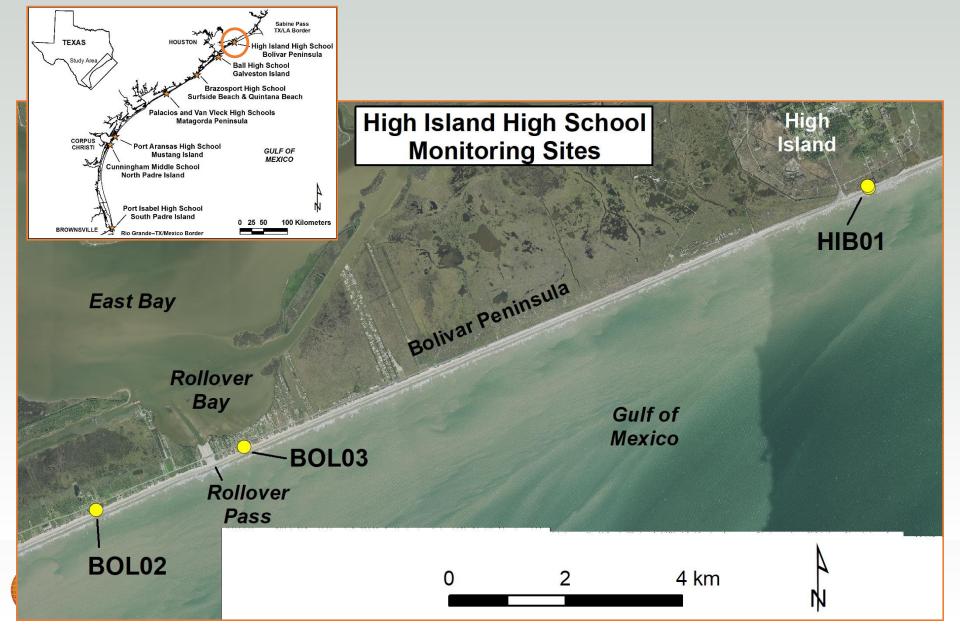
- wind direction and speed; wave direction, height, and period; and longshore current direction and speed
- GPS survey of the vegetation line and shoreline
 - quantitative data on the position of the shoreline and vegetation line

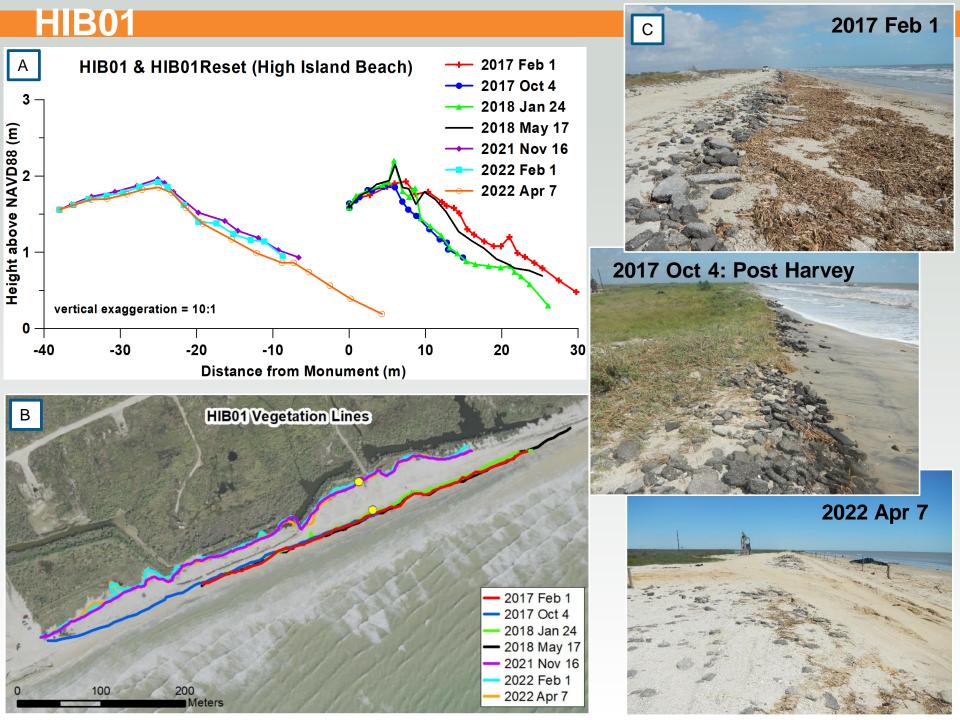


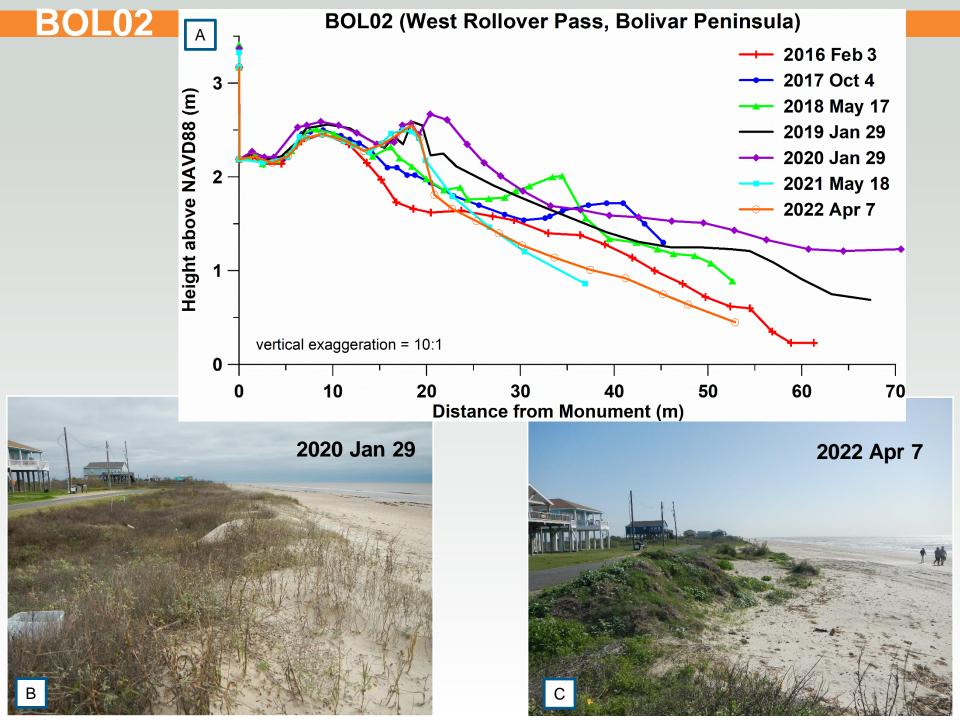


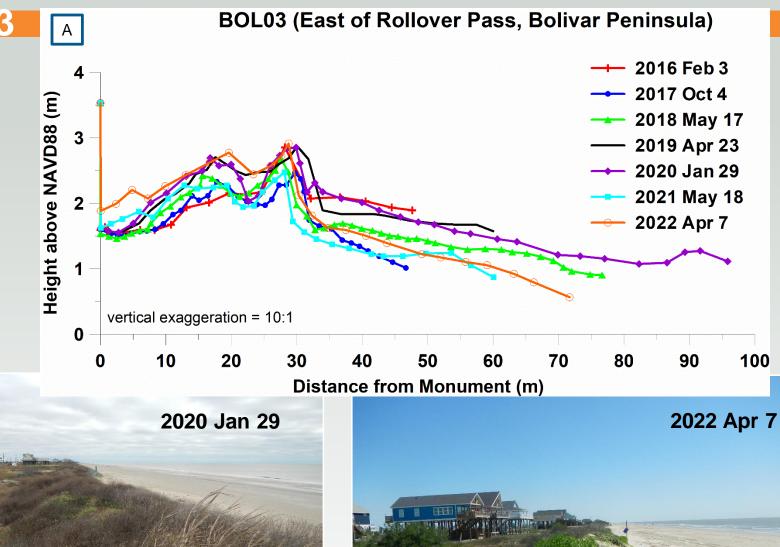


Bolivar Peninsula Study Sites







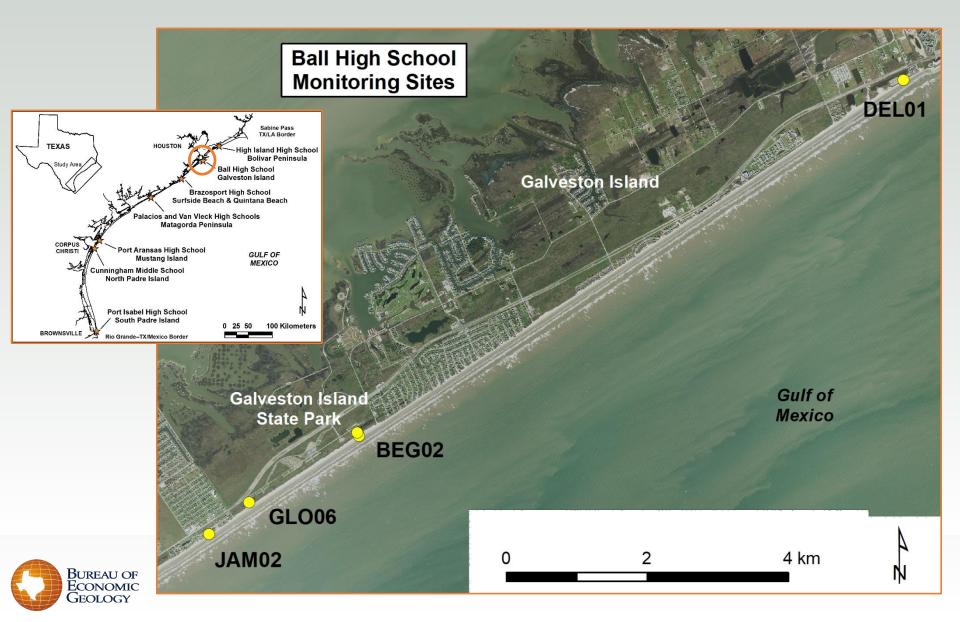






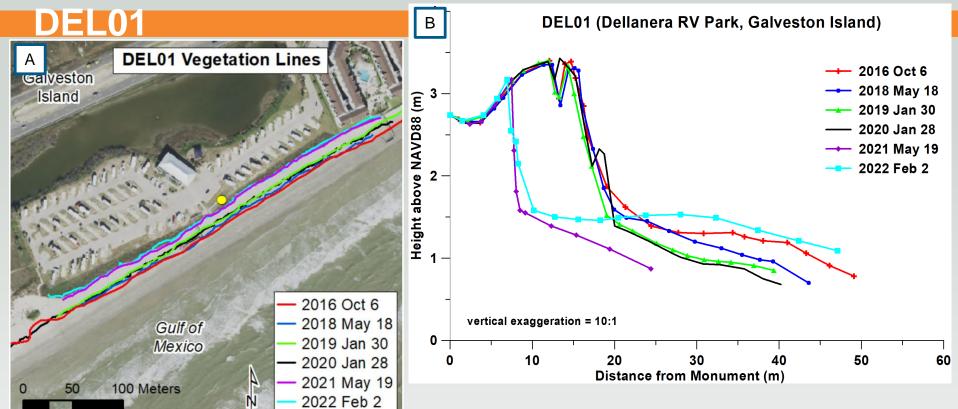


Galveston Island Study Sites



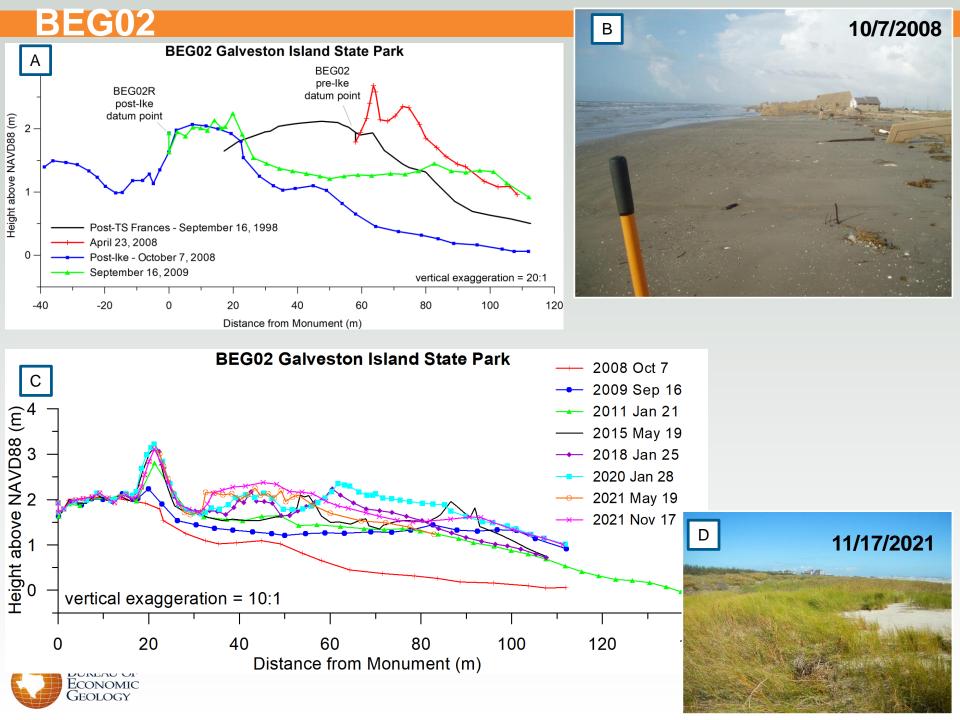
Babe's Beach

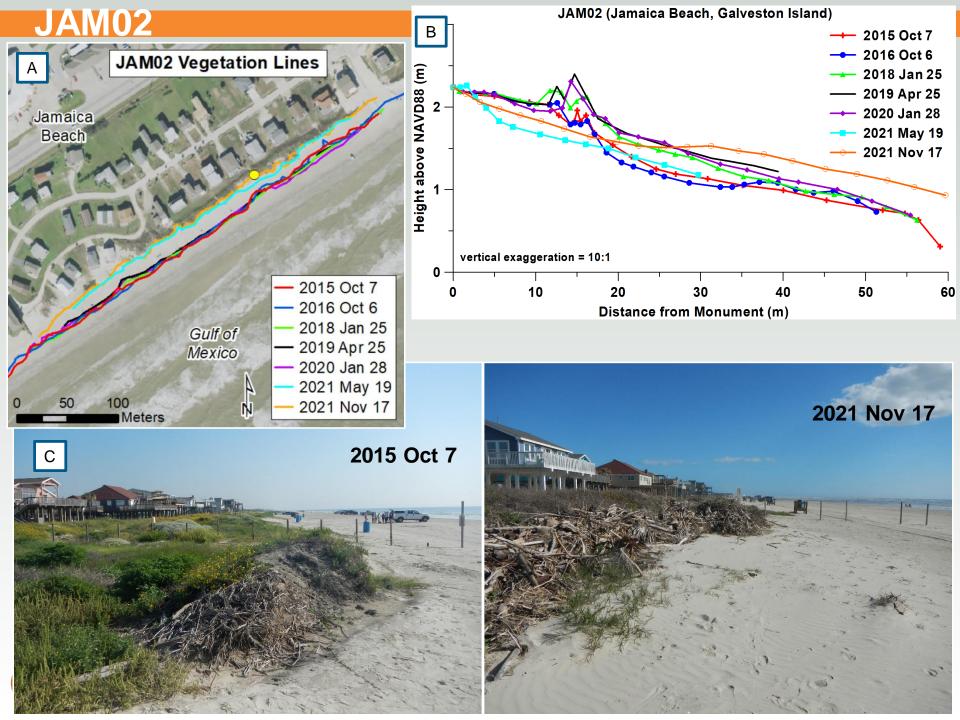




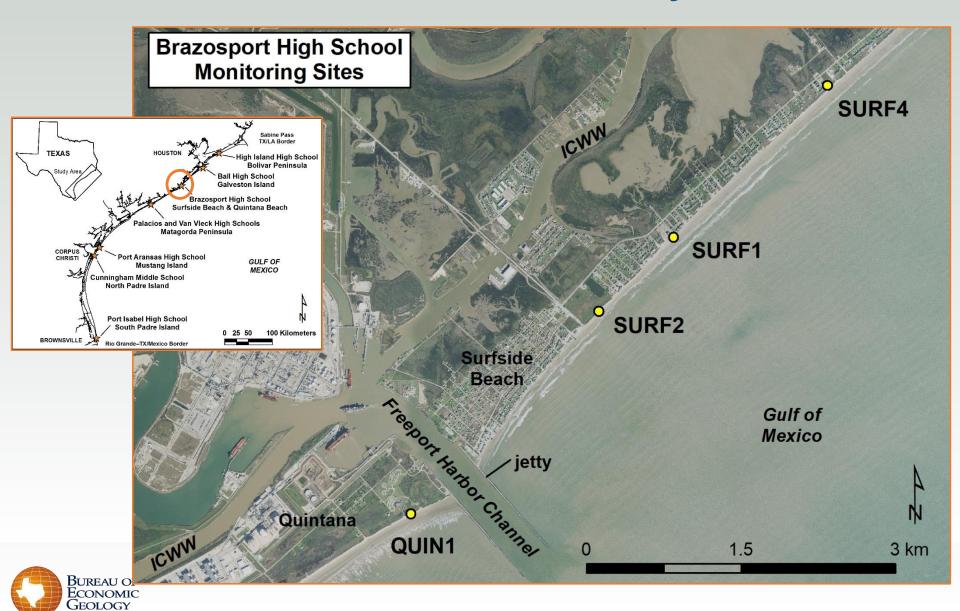


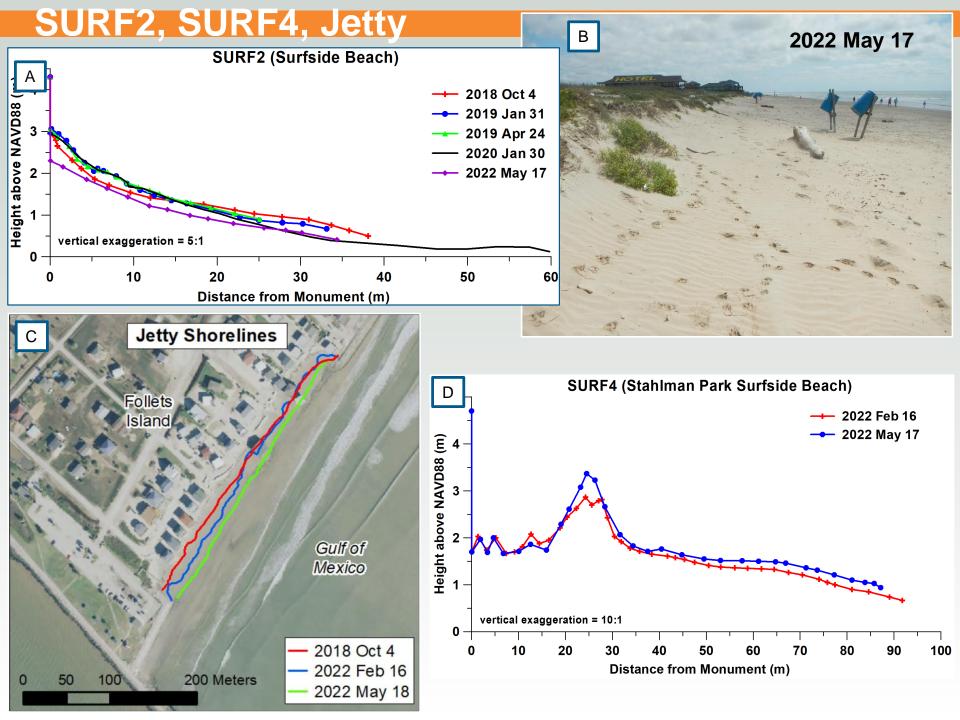






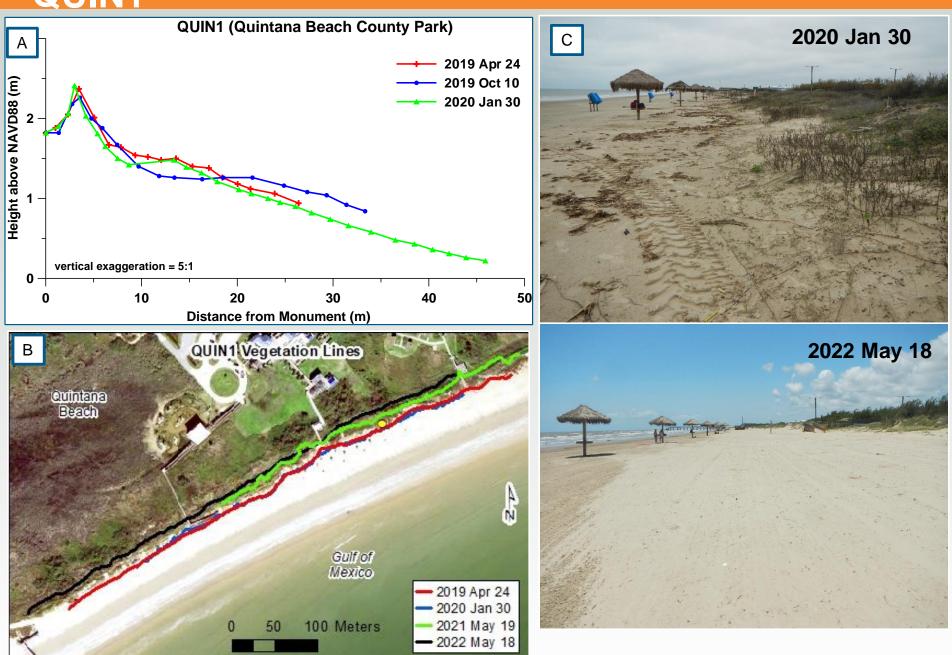
Surfside & Quintana Study Sites



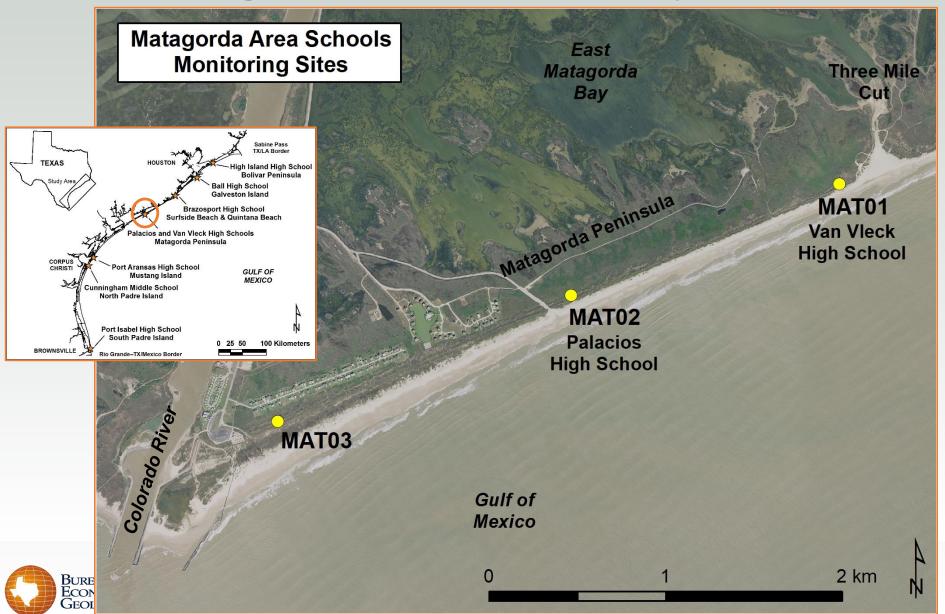


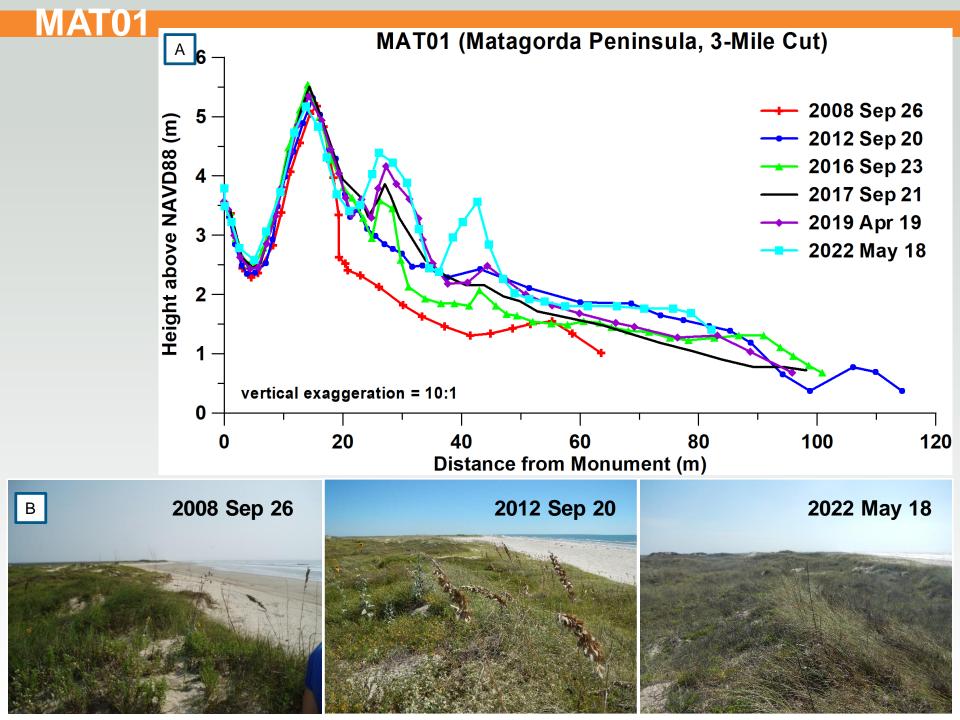
QUIN1

Geology



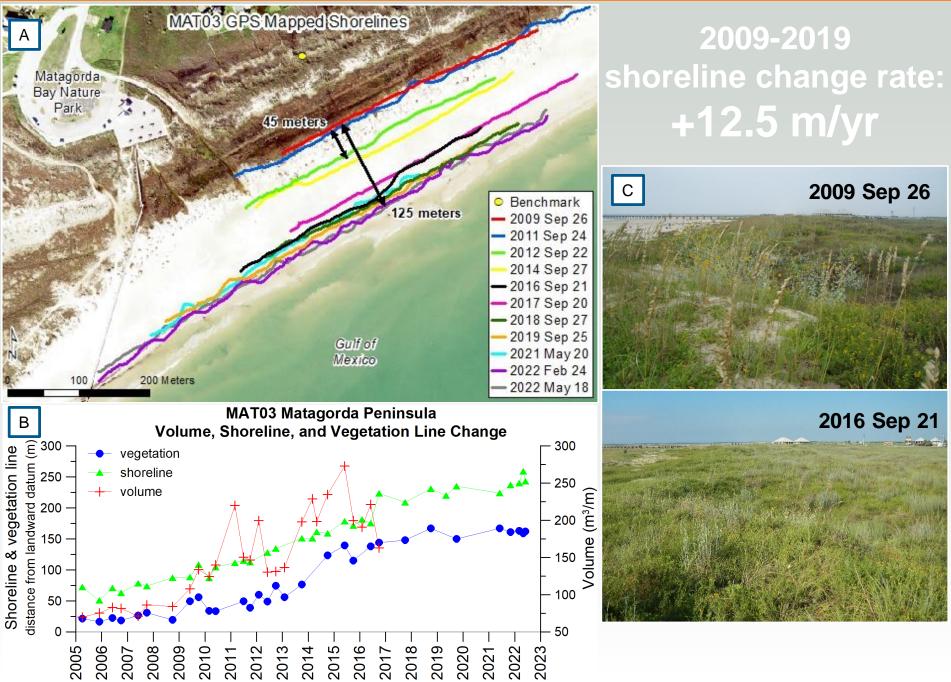
Matagorda Peninsula Study Sites



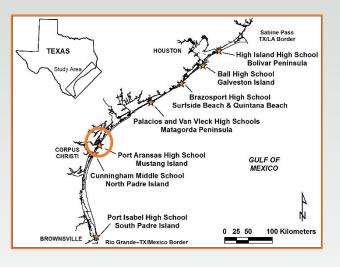


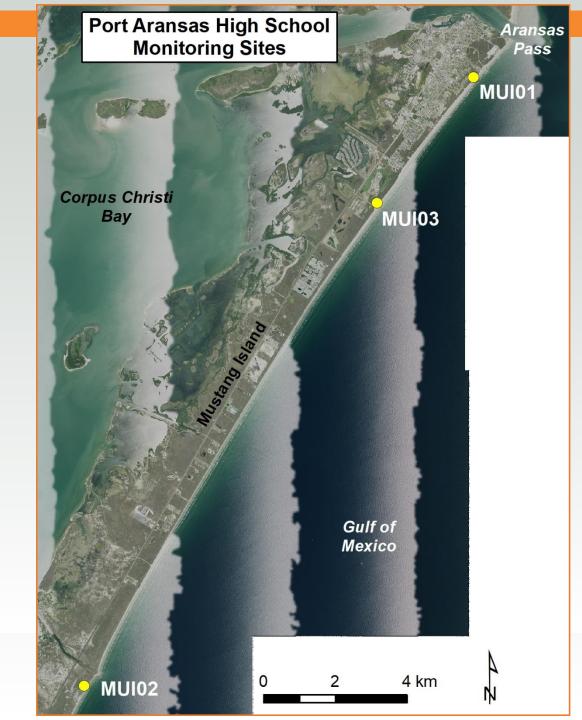
MAT02 MAT02 (Matagorda Peninsula) Α 2007 Sep 27 Pre-lke
2017 Sep 20 Height above NAVD88 (m) 2008 Oct 16 Post-lke — 2019 Apr 9 2020 Feb 13 2009 Sep 18 2013 Sep 26 2022 Apr 8 - 2015 Apr 30 vertical exaggeration = 10:1 20 40 60 80 100 120 140 160 Distance from Monument (m) 2009 Sep 18 2017 Sep 20 2022 Apr 8

MAT03



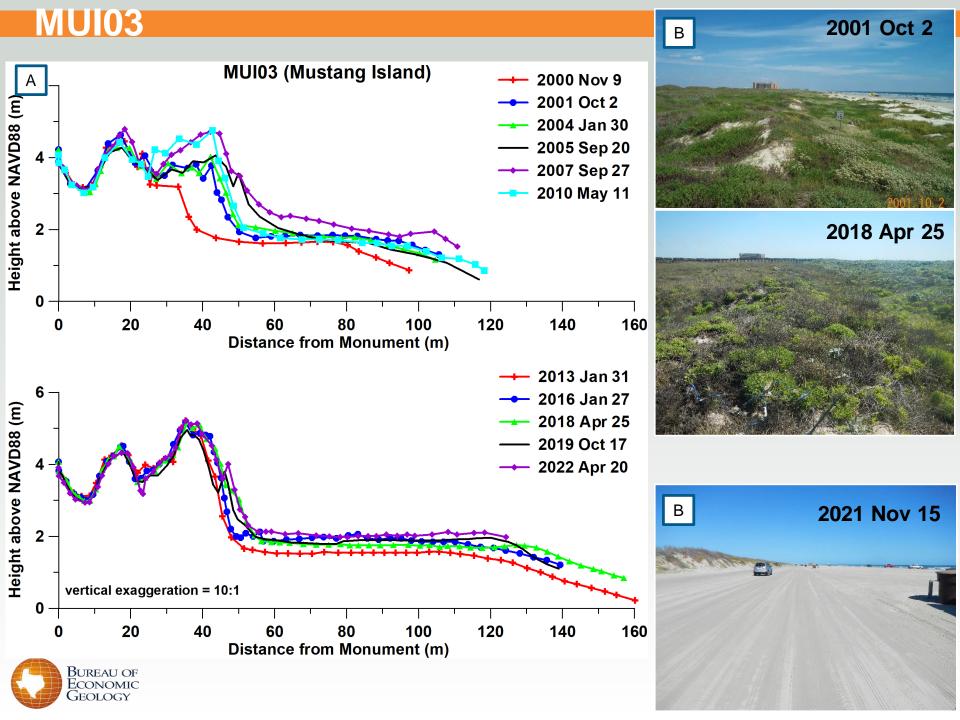
Mustang Island Study Sites

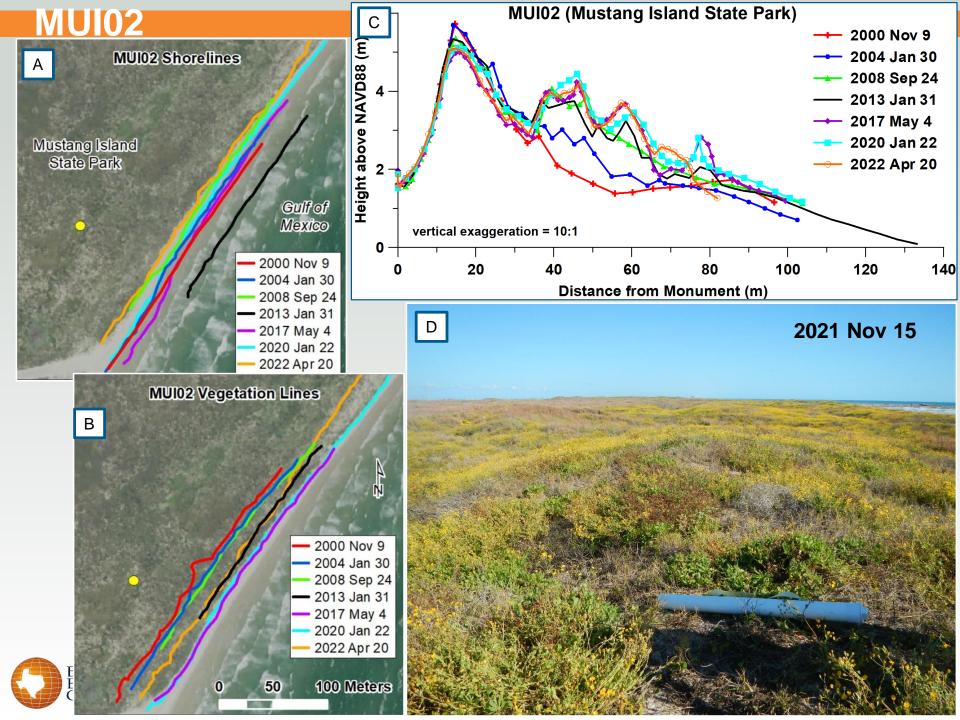




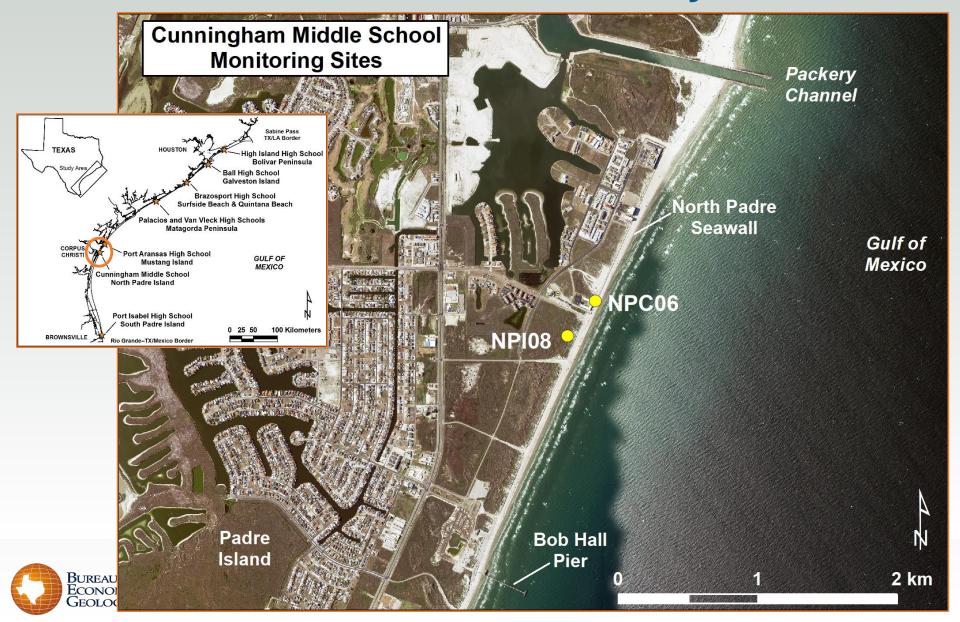


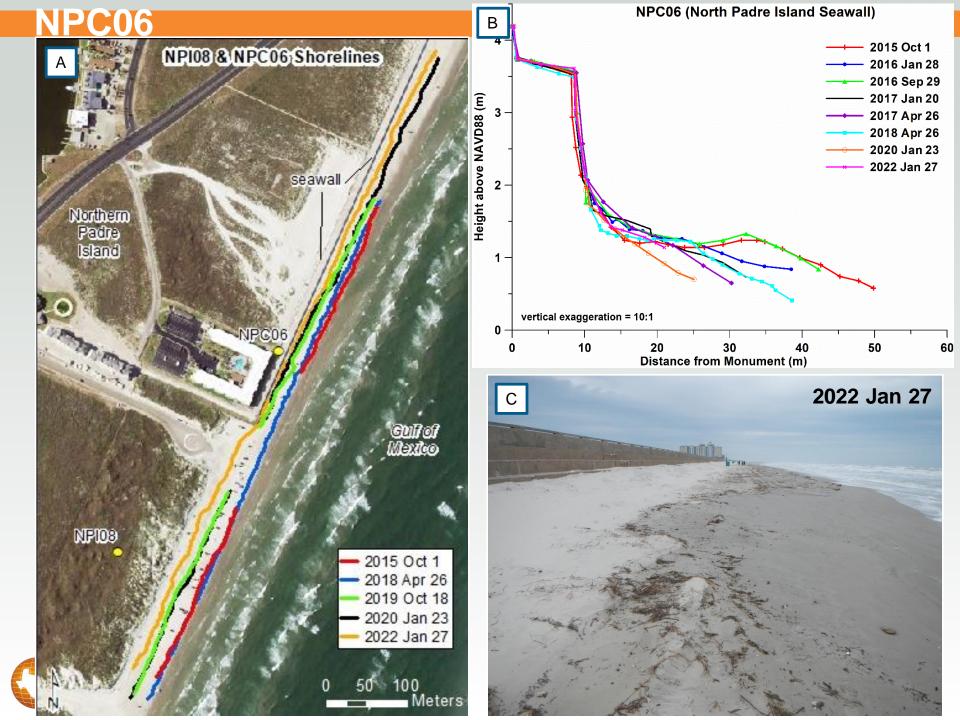
MUI01 2005 Sep 20 **MUI01 Mustang Island** 2001 Apr 9 2003 Jan 23 Height above NAVD88 (m) 2005 Sep 20 2010 Jan 21 2012 Oct 25 2014 Apr 24 2 -2012 Oct 25 0 20 40 80 120 60 100 140 160 0 **Distance from monument (m)** 2015 Jan 29 Height above NAVD88 (m) 6 2016 Jan 27 2017 May 4 2018 Apr 25 - 2019 Oct 17 2022 Apr 20 2022 Apr 20 2 vertical exaggeration 10:1 120 160 40 60 80 100 140 20 Distance from monument (m) Bureau of Economic Geology

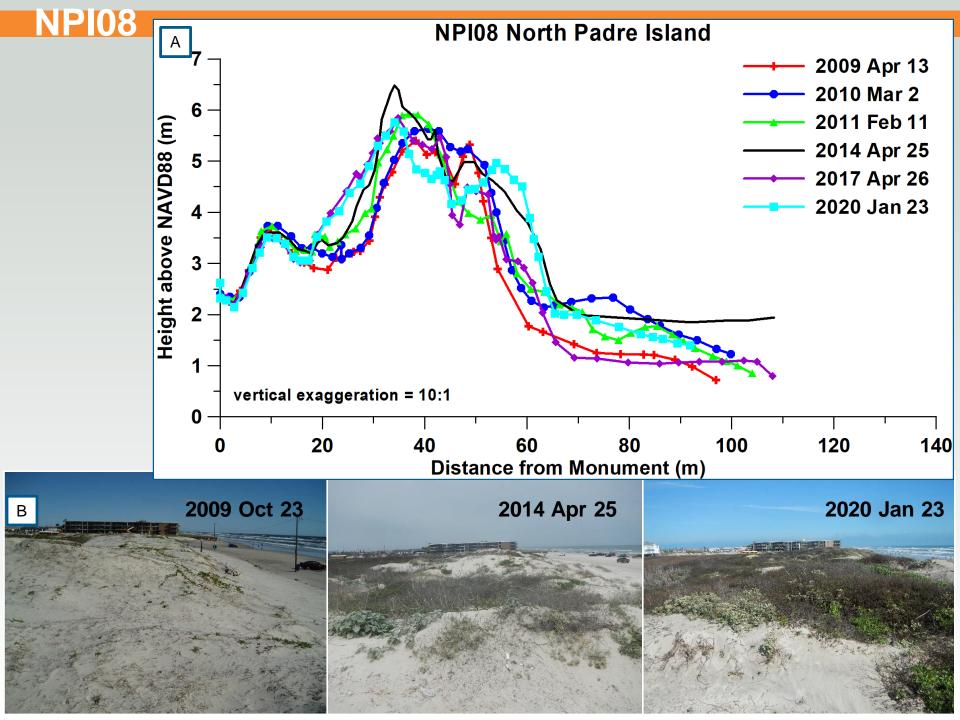




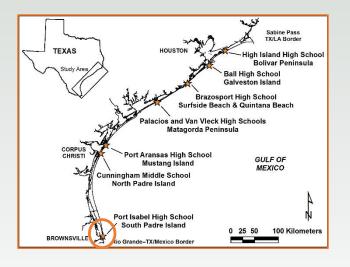
Northern Padre Island Study Sites







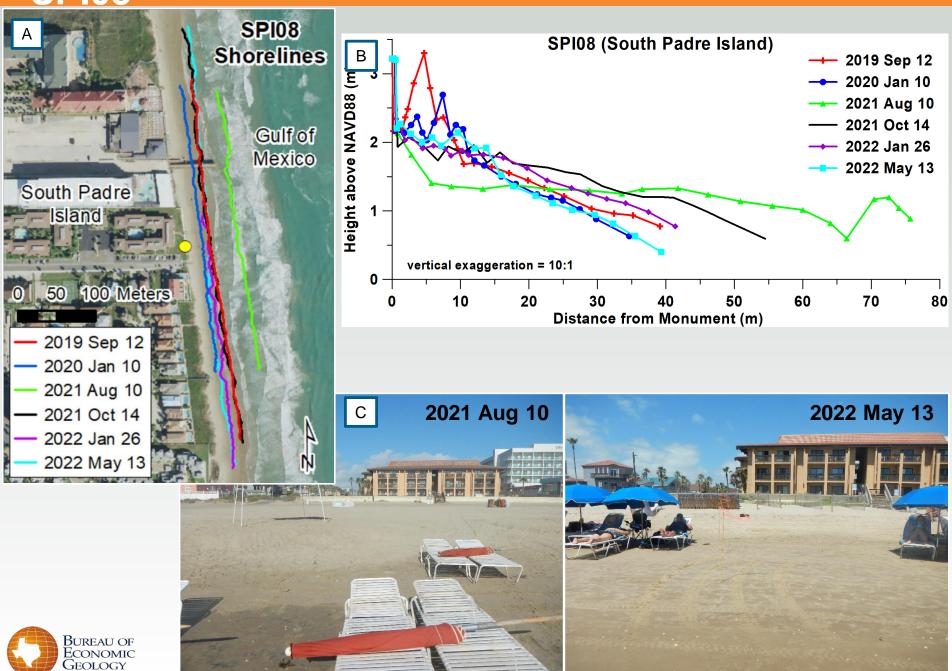
South Padre Island Study Sites

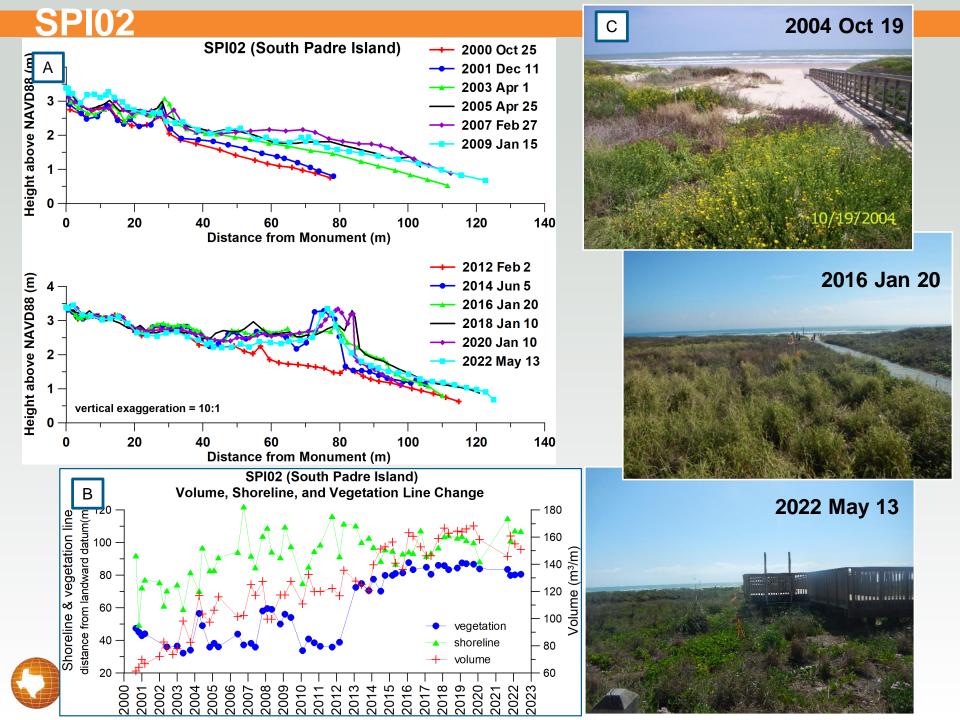


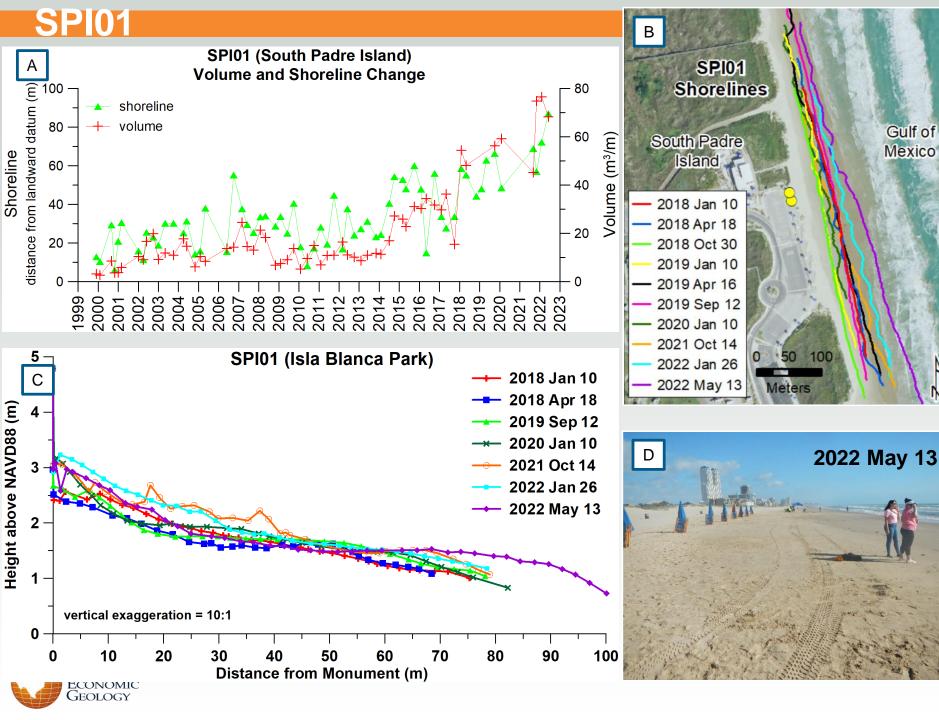




SPI08







THSCMP Website http://www.beg.utexas.edu/thscmp/

THSCMP delivers valuable data to the State of Texas for use by students and teachers, scientists, coastal managers, and the general public.



