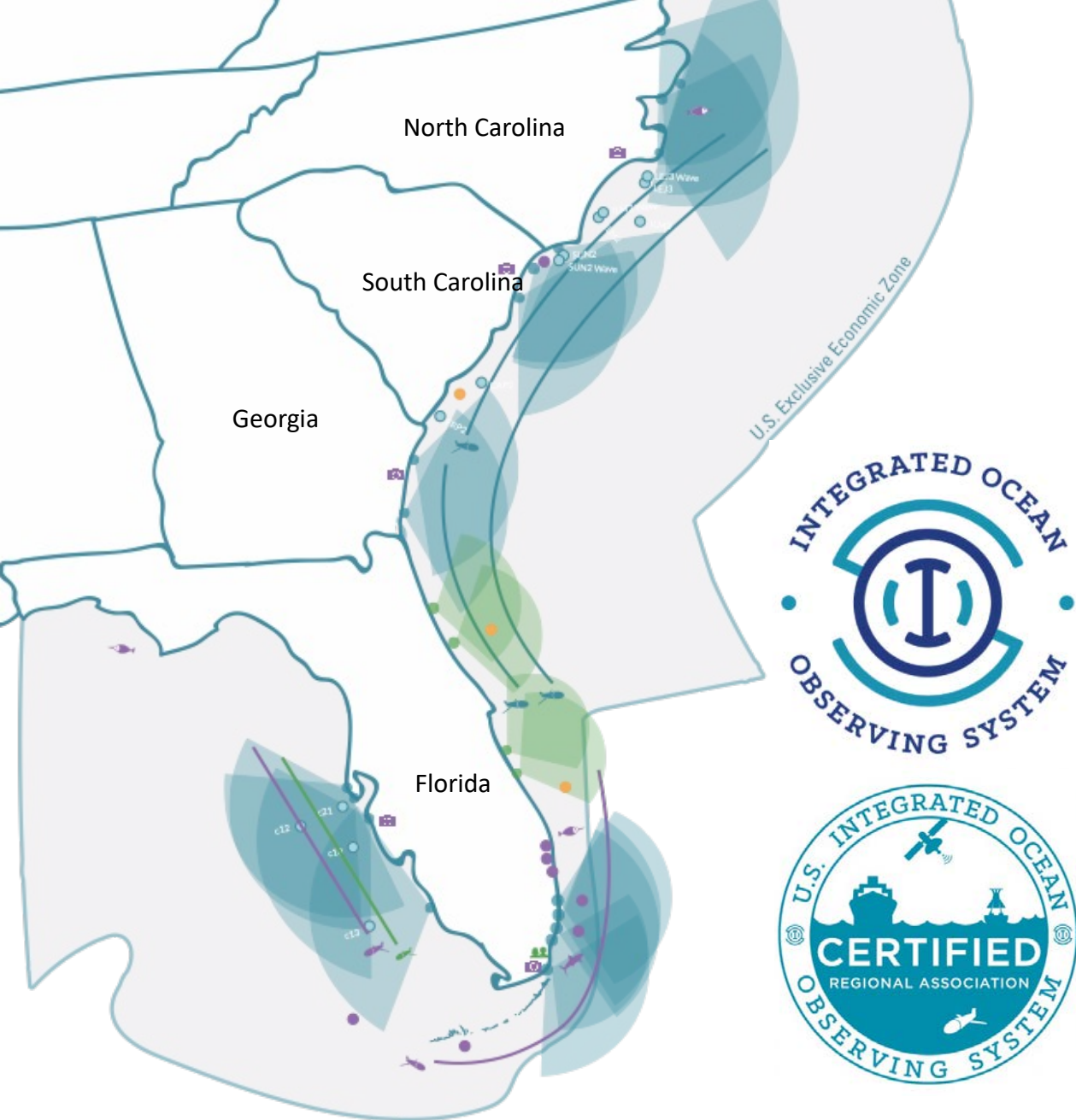


Regional Surface Elevation Table Coordination

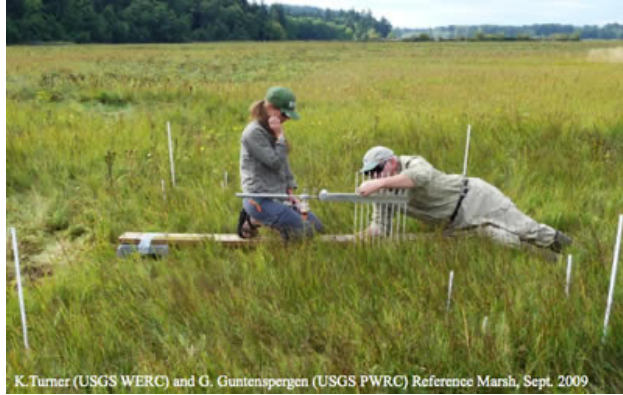
Heather McCarthy
SECOORA 2023 Annual Meeting
May 10, 2023



Overview: Regional SET Coordination



Surface Elevation Table (SET) NNWR, June 2010

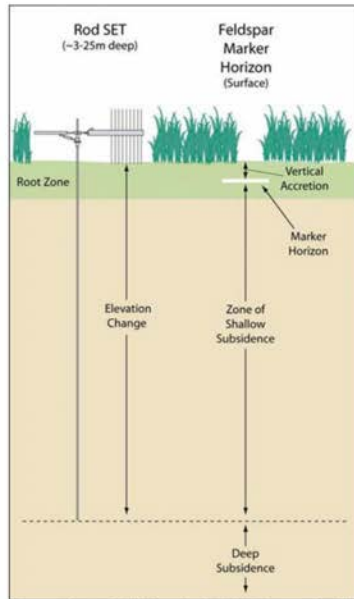


K. Turner (USGS WERC) and G. Guntenspergen (USGS PWRC) Reference Marsh, Sept. 2009

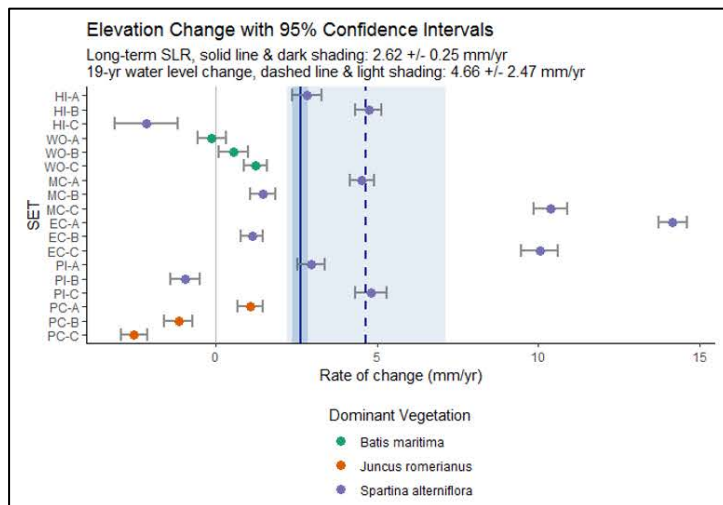
Regional Ocean Data Sharing

Southeast coastal zone managers have expressed the need for additional SET monitoring stations across the region to increase data available on marsh resilience to sea level change.

- **TIMELINE**
 - Two years, with possible extension to five years
- **MAJOR GOALS**
 1. SET inventory for the four states
 2. Community of Practice
 3. Regional SET Workshop
 4. Identify data gaps and needs
 5. Facilitate discussions on data management protocols
 6. 16 new SET stations
 7. Database of regional surface elevation information and trends



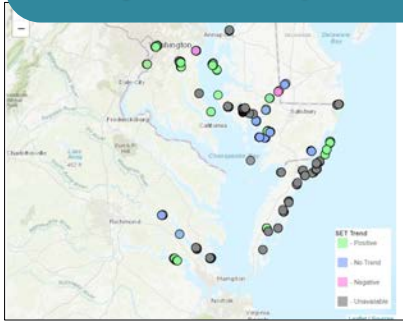
Sources/Usage: Public Domain. Visit Media to see details.



SETr Project, GTM NERR, SET Rate Calcs, 2020-02-26.
Data collected 2013-06-27 to 2019-10-21.

Accomplishments

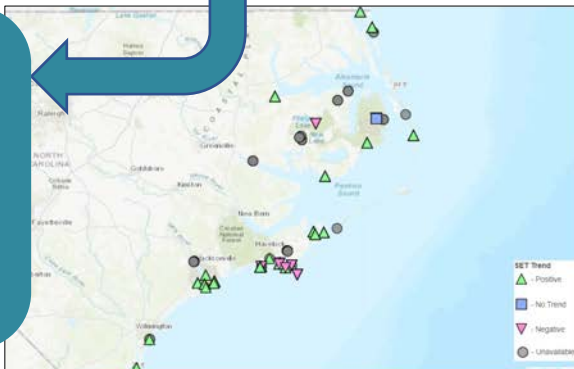
Chesapeake Bay
Sentinel Site
Cooperative (CBSSC)



Gulf of Mexico SET
Inventory
(PLACE:SLR)



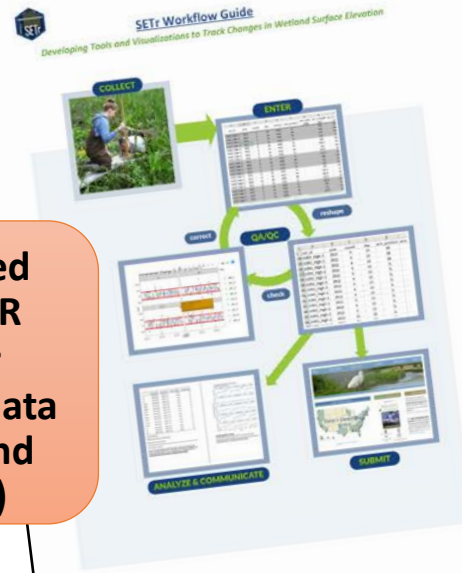
North Carolina
SET Community
of Practice
(NCSSC adopted
by NC SeaGrant)



Standardized
protocols for
collection of
data (led by
National Park
Service)



Standardized
protocols (R
script) for
analyses of data
(led by Grand
Bay NERR)



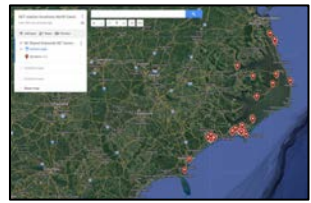
North Carolina
Community of
Practice Workshop
Morehead City, NC
March 31, 2023

- Presented SECOORA initiative & goals
- Gauged interest & need for regional coordination
- Asked about hurdles, challenges, data-sharing
- Requested feedback
- Discussed pivoting to explore new technologies

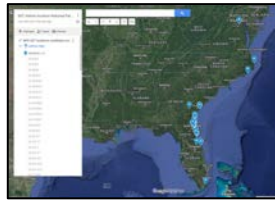


Challenges Looking Ahead

Combining Datasets



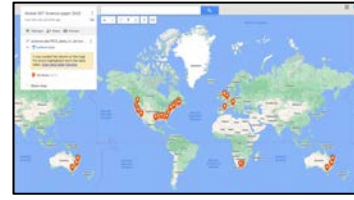
NC Community of Practice Dataset
(closed data)



National Park Service Data
(open data)



Everglades Data Release
(published)



Global Data Release (published)

Gap Analysis



Pivot to test new technologies?



CHALLENGES:

1. Inconsistencies in research methods
2. Varying types & availability of metadata
3. Various vegetation types
4. Confounding variables
5. Access to unpublished data
6. Value of data points is compromised if
 - SETs were part of experimental manipulations
 - SETs have been read for less than 3-5 years