



Tide Station Recovery and Maintenance

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Florida Department of Environmental Protection



Benefit and/or Impact:

- Fulfill the statutory obligations of Florida Statutes Chapter 177, Part II.**
- Provide for continual maintenance of the tide station and benchmark networks.**
- Prevent time delays and increased costs for new tide studies for surveying and mapping services due to the loss of existing tide stations.**
- Assist with providing for protection of the state's critically eroded beaches and the preservation of sovereign lands.**
- In 1975 the Coastal Mapping Act codified the MHWL process into Chapter 177, Part II.**



Benefit and/or Impact:

First agreement between the state and the federal government, the National Ocean Service (NOS) were signed on April 18, 1969. This was halted around 2010.

1. Develop uniform standards and procedures to establish mean high water or mean low water lines (Fla. Stat. §§177.26 & 177.39). This includes creating procedures to:

a. Preserve local tidal datums (Fla. Stat. §177.38(4)).

b. Interpolate between two tidal stations (Fla. Stat. § 177.38(5)).

2. Receive copies of results from surveyors and mappers establishing a local tidal datum and mean high water line. (Fla. Stat. §177.37)



The Department is authorized to:

- 1. Coordinate with public and private agencies to make tidal surveys and maps of coastal areas. (Fla. Stat. §177.29(2)(a)).**
- 2. Serve as the coordinating agency for tidal surveys and mapping performed by the federal government. (Fla. Stat. §177.29(2)(b)).**
- 3. Assist any court, tribunal, agency, and political subdivision and make available information in regard to tidal surveys and determining coastal boundaries. (Fla. Stat. §179.29(2)(c)).**
- 4. Contract with federal, state, or local agencies or private parties to perform surveys, studies, investigation, or mapping activities. (Fla. Stat. §177.29(2)(d)).**
- 5. Develop permanent records of coastal areas. (Fla. Stat. §177.29(2)(e)).**
- 6. Develop uniform specifications and regulations for tidal surveying and coastal mapping. (Fla. Stat. §179.29(2)(f)).**
- 7. Collect and preserve survey data for coastal areas. (Fla. Stat. §177.29(2)(g)).**
- 8. Act as a public repository for coastal maps and establish a library of coastal maps. (Fla. Stat. §177.29(2)(h)).**



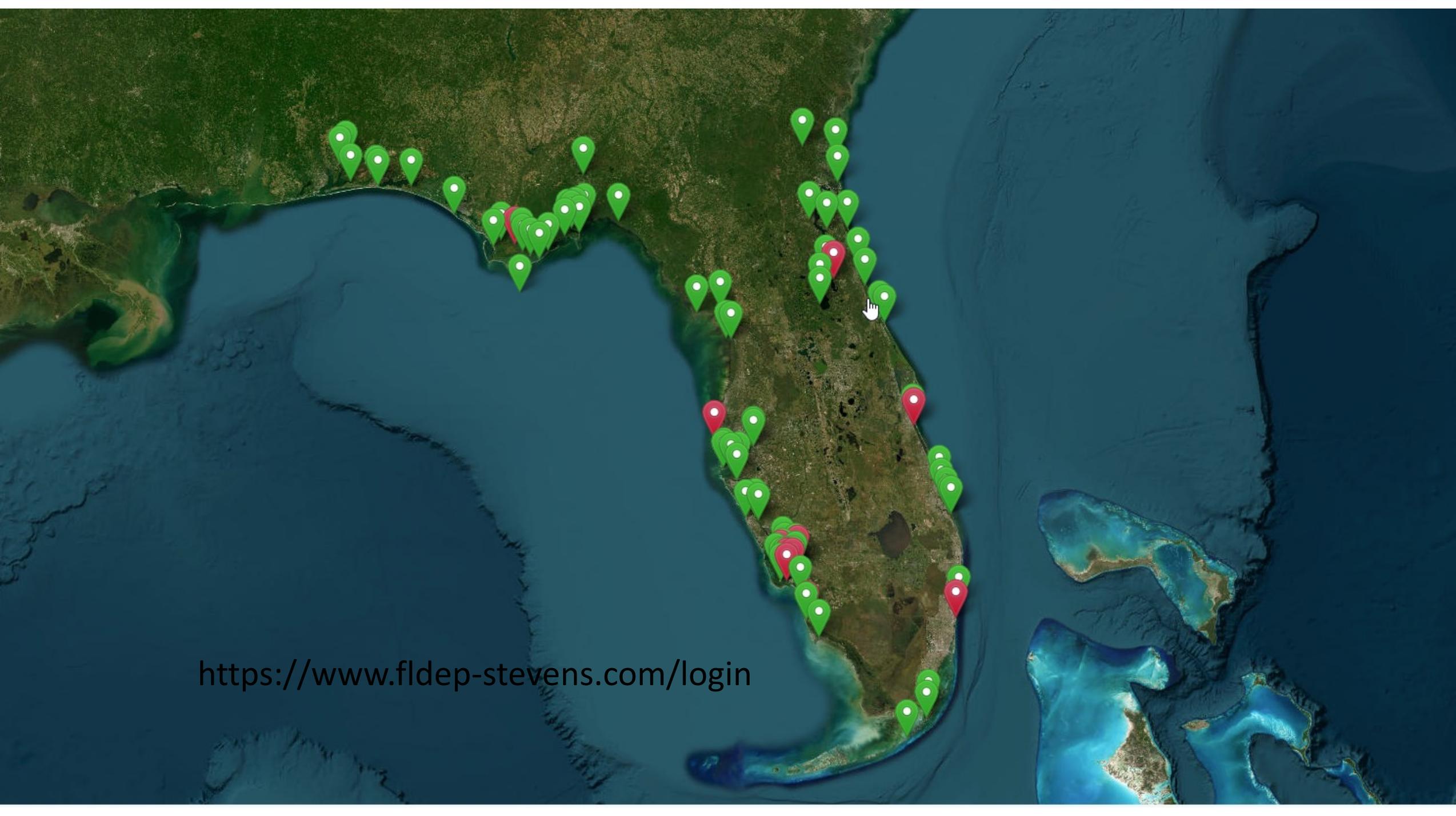
Installed DEP Gauges (7/2022)

DEP Existing Long-Term Stations:

- Tolomato River (Ponte Vedra)
- Bings Landing (Palm Coast)
- Ponce Inlet (New Smyrna)
- Melbourne Causeway
- Binney Dock (Ft. Pierce)
- St. Lucie Inlet (Stuart)
- Shell Point
- Maintain 5 Gauges in Apalachicola NERR

DEP Short Term Stations:

- *Currently 85 Stations Installed*
- *Cape Coral - Additional 6 New Stations*



<https://www.fldep-stevens.com/login>