



Teacher Quest Tampa Bay Program

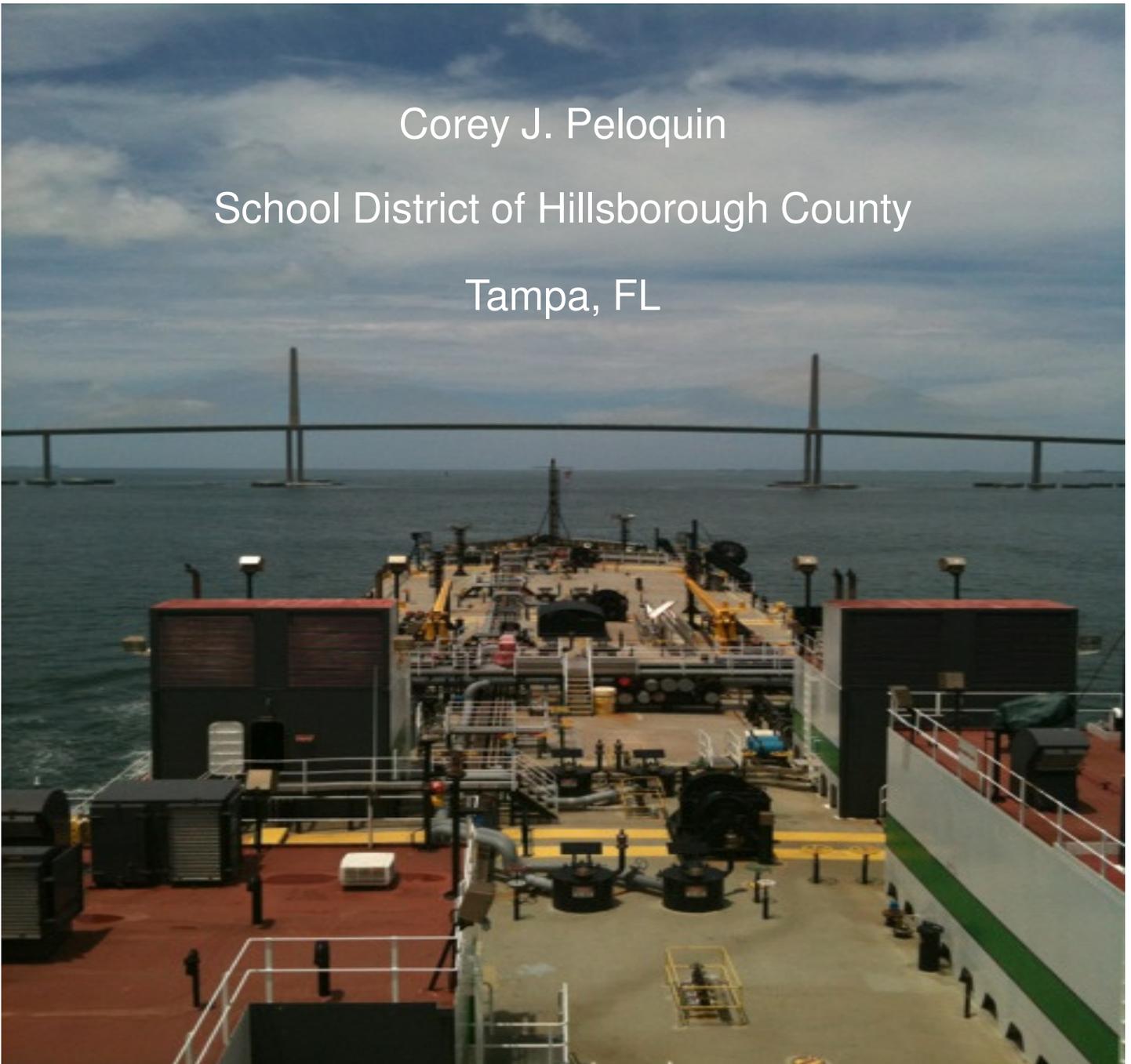
The Propeller Club of the United States

Port of Tampa

Corey J. Peloquin

School District of Hillsborough County

Tampa, FL



Teacher Quest Tampa Bay Program

Summary of Experience & Relevance

- Gained insight and experience in the maritime industry through “in-the-field” exposure
- 5 Port of Tampa Agency Affiliates
 - Tampa Bay Pilots
 - A.R. Savage & Son, Inc.
 - Ports America
 - Pfitzco Engineering
 - International Ship & Repair
- Use experience, knowledge gained, resources, and networking to better create a marine and maritime academy curriculum
 - School District of Hillsborough County
 - Grades 6 – 12
 - First of its kind nationally
 - ***Heavy STEM focus!***



Summer Field Research

Field Research Component

- Seagrass Density & Percent Coverage With Relation To Environmental Factors
- Population Ecology of *Halodule wrightii* and *Thalassia testudinum* Communities



Seagrass Density & Percent Coverage With Relation To Environmental Factors

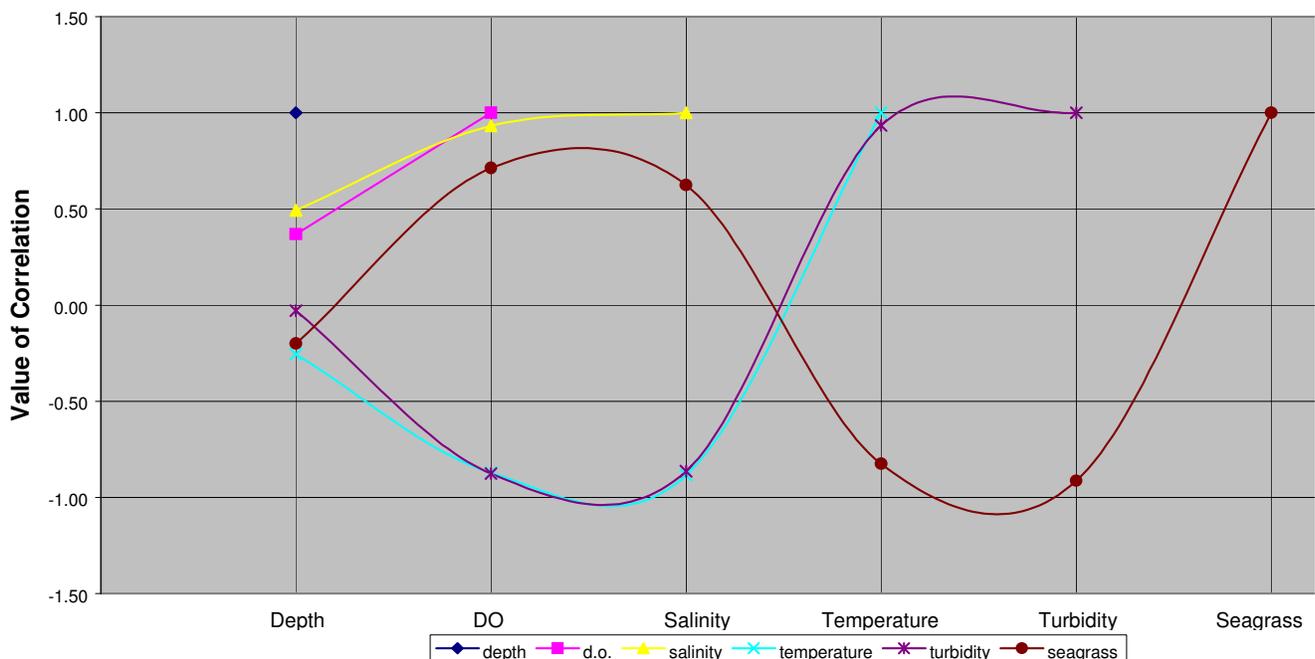
Treatments (Independent Variables)

- Salinity (ppt)
- Temperature (°C)
- Dissolved oxygen (mg / L)
- Turbidity (ftu)
- Water depth (m)

Dependent Variables

- Seagrass density
- Seagrass percent coverage
- Blade length
- Epiphytic algae percent coverage

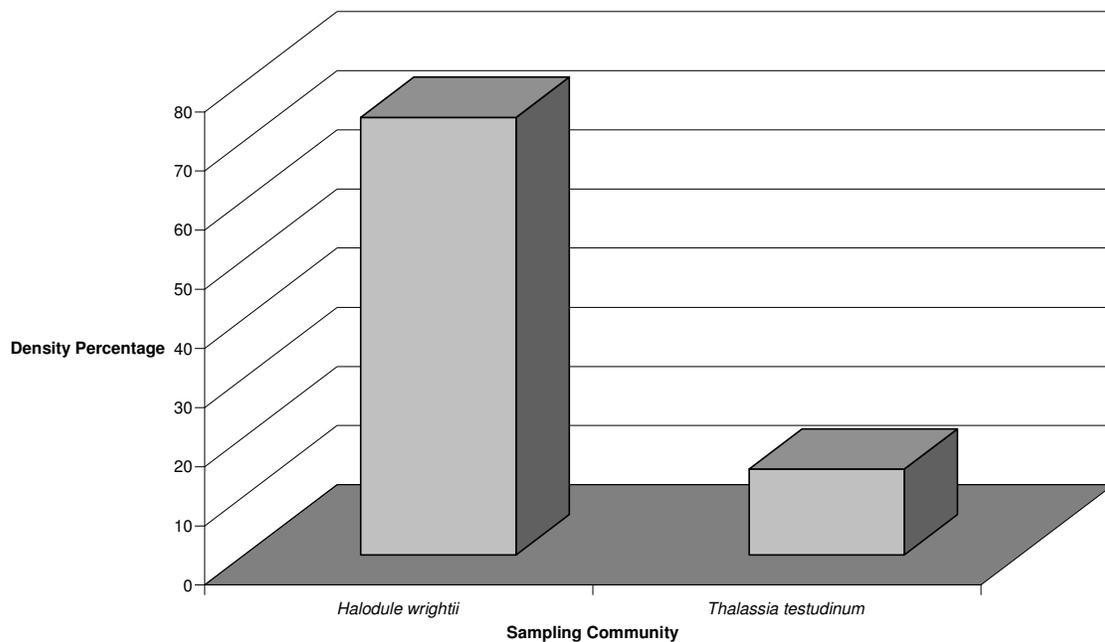
Bishop Harbor Data Correlation



Population Ecology of *Halodule wrightii* and *Thalassia testudinum* Communities

<u>Species</u>	<u>Number of Species Found in <i>Halodule wrightii</i></u>	<u>Number of Species Found in <i>Thalassia testudinum</i></u>
Arrow Shrimp	42	5
Blue Crab	2	1
Clear Shrimp	425	39
Cray Fish	15	2
Green Shrimp	123	10
Hermit Crab	8	22
Pipe Fish	3	4
Seahare	0	2
Snails	16	6
Toad Fish	5	0

Comparison of Organism Median Density in *Halodule wrightii* and *Thalassia testudinum*



Creation of Grade Level Curriculum

Process

- Scope and sequence for each grade level
- Vertical articulation between grade levels
- Input from maritime industry partners
- Internship scenario resulting in high school

