Hurricane Ian and Water Quality:

Collaborations, Initial Thoughts, and Lessons Learned

February 20, 2024

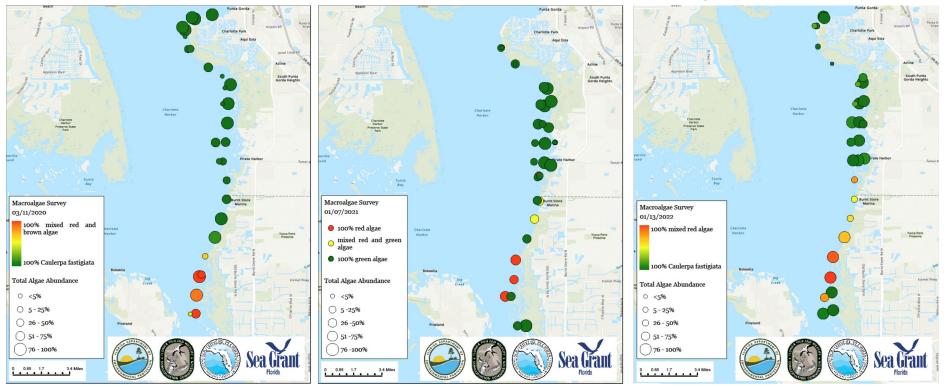








Evidence of Imbalance in the System





Charlotte Harbor

Segments	2020	2022	Δ Acres	% Change	
East Wall North	1,770	1,593	-178	-10%	
East Wall South	1,258	1,183	-76	-6%	
Myakka River	189	148	-40	-21%	
Peace River	349	244	-105	-30%	1.1
Placida	4,029	3,881	-148	-4%	
Southern Charlotte	2,079	2,112	+34	+2%	
Turtle / Bull Bay	4,178	3,944	-233	-6%	
West Wall	1,421	1,807	+386	+27%	
Total	15,273	14,913	-360	-2%	

Mapped Seagrass Acreage - Charlotte Harbor

















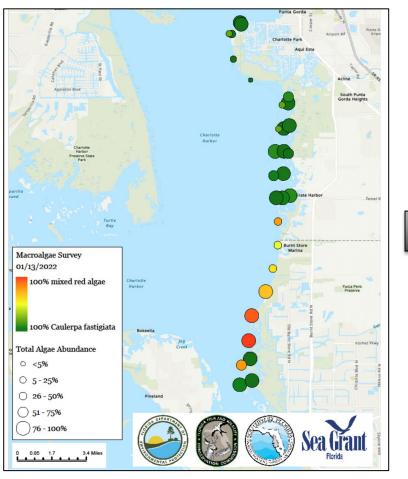


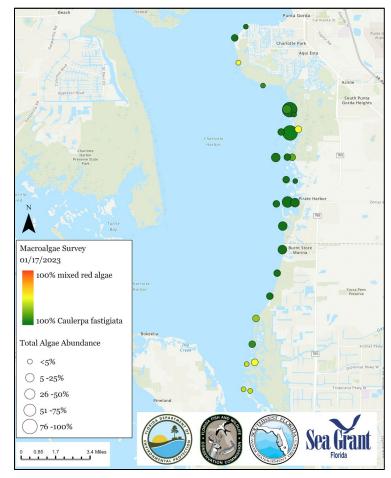






Ian As A Flushing Event??





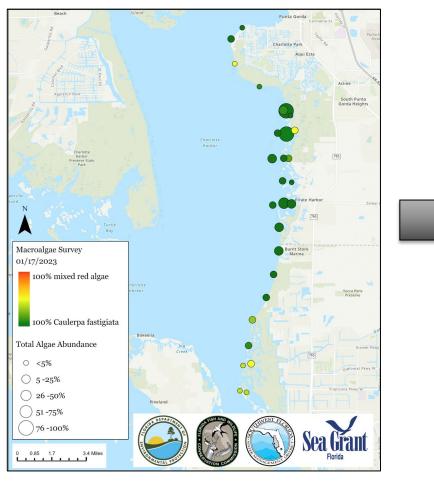
... Or Not So Much

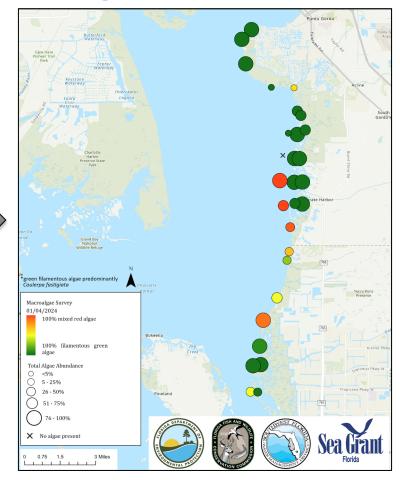


Source: FWC FIM Program, June and July 2023



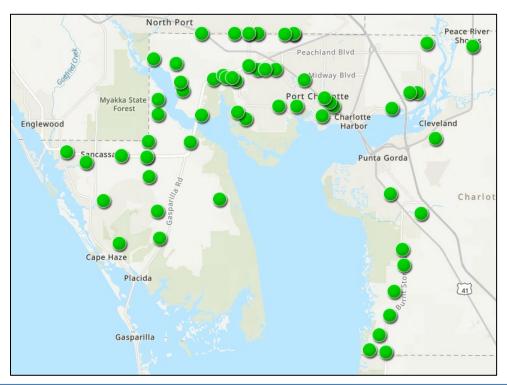
Return of the Macroalgae





Responding to the Imbalance: The County's Role

- AWT Implementation: reduce reclaim irrigation nutrient concentrations
- Central sewer expansion for coastal/canal communities: ongoing since 2017
- County ambient monitoring: nonmandated surface water sampling project tracking possible input concerns
- One Charlotte, One Water





Gaps, Needs, And The Take-Home

- Agency storm sampling response was fantastic, and highlighted the need for continued partnerships to:
 - Maintain resources for compiling and sharing data;
 - Establish common/comparable methods for collection and analysis
- Long-term tracking of flora/fauna response to inputs is vital, and established, ongoing, funded partnerships are the only way to make it happen

