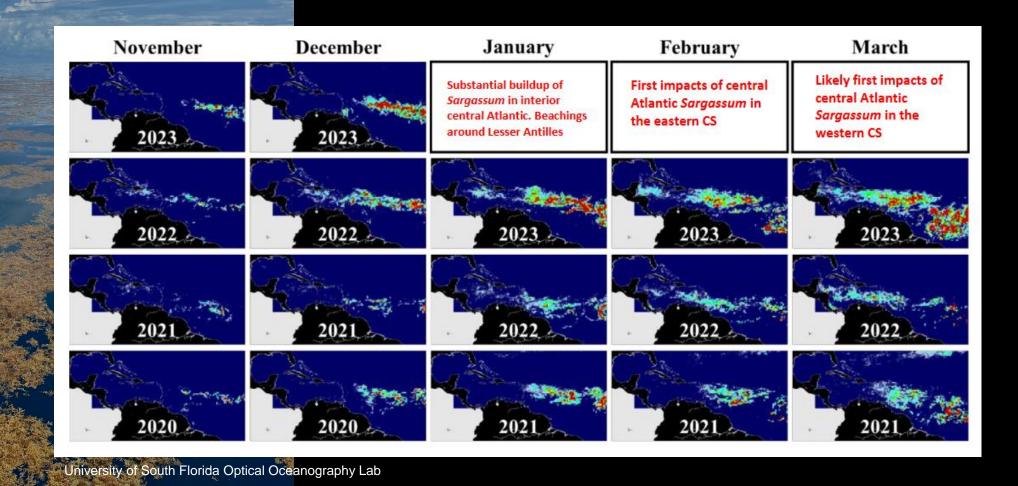


The Effects of Sargassum on Avicennia Seedling Growth

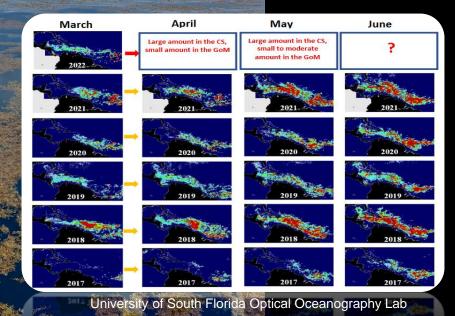
L.T. Simpson, S.J. Canty, I.C. Feller 2024 CHIMMP Workshop

Sargassum proliferation has been unprecedented since 2011.

Wang et al. 2019



The increase in Sargassum density and aerial extent poses a major threat to the economy and public health.







Does Sargassum act as a nutrient subsidy to mangrove growth?



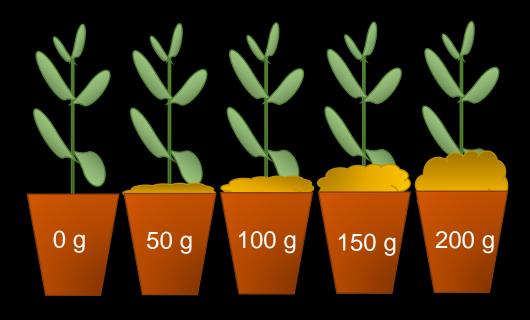












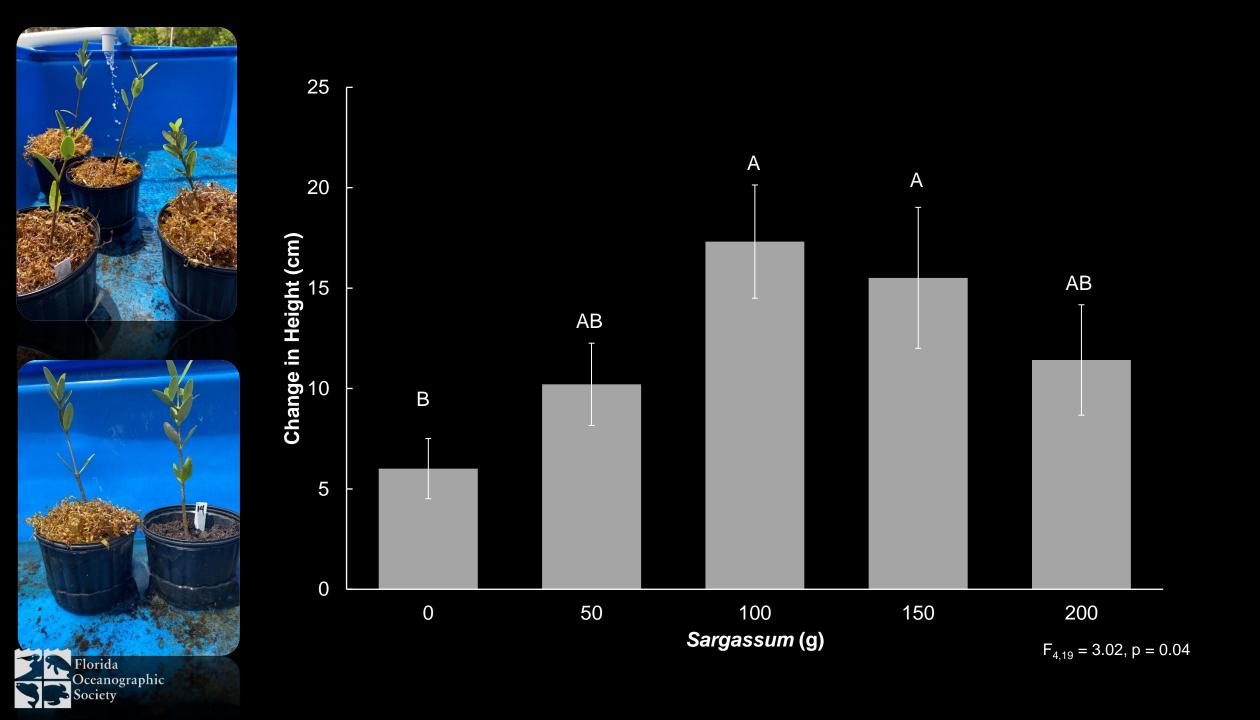
Avicennia germinans seedlings + Sargassum spp. on soil surface (n = 5)



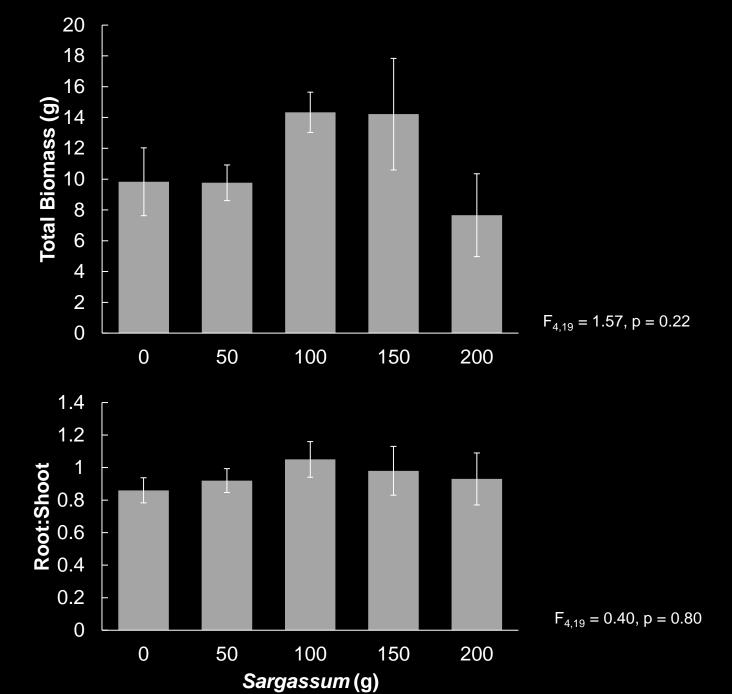
Growth measurements
[height, internode (#), leaf
(#), branching (#)]

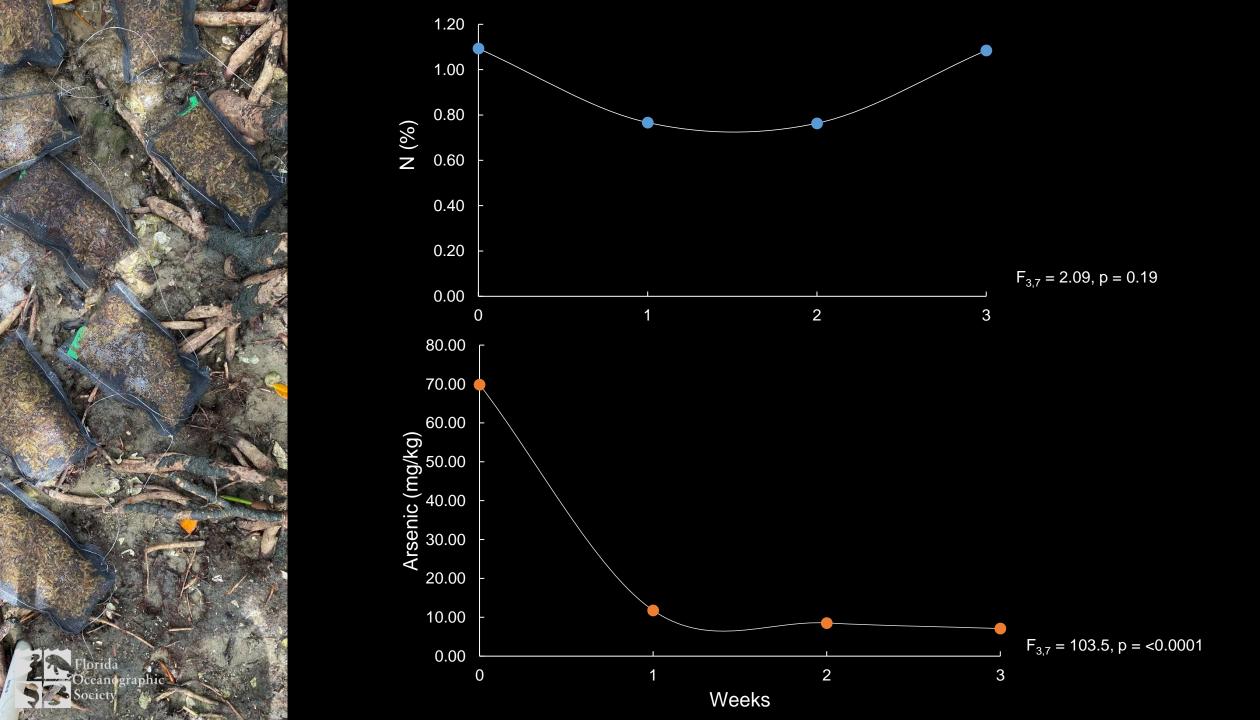


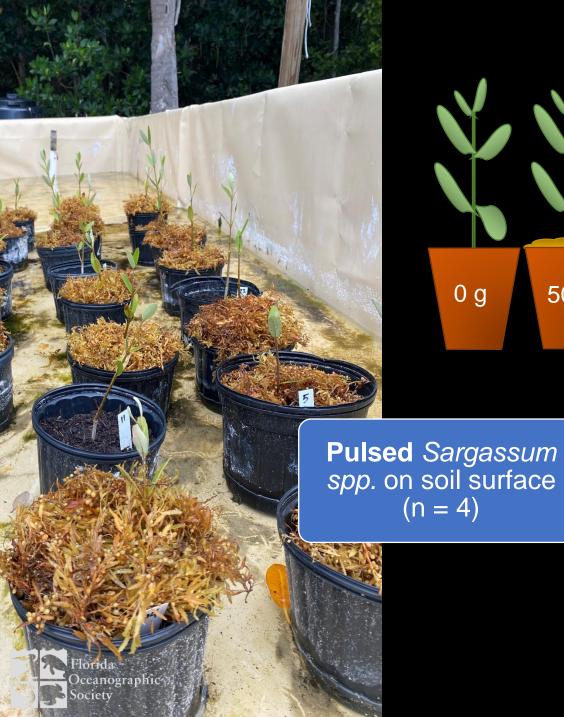
Harvest for biomass

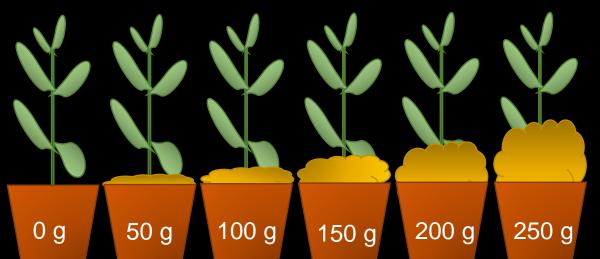












Growth measurements



2023

Harvest for biomass

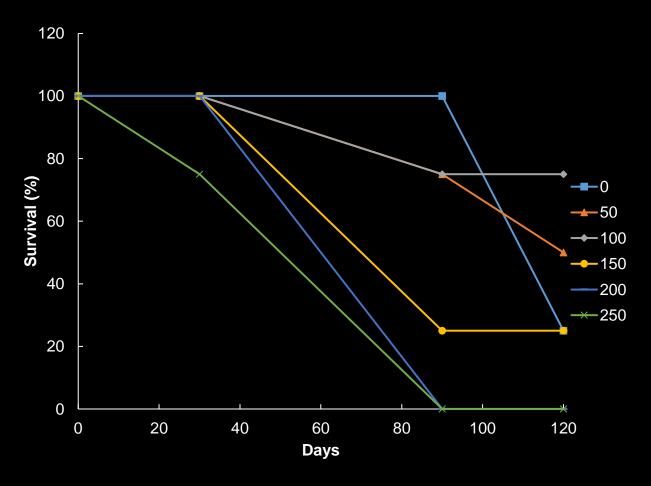
Sargassum

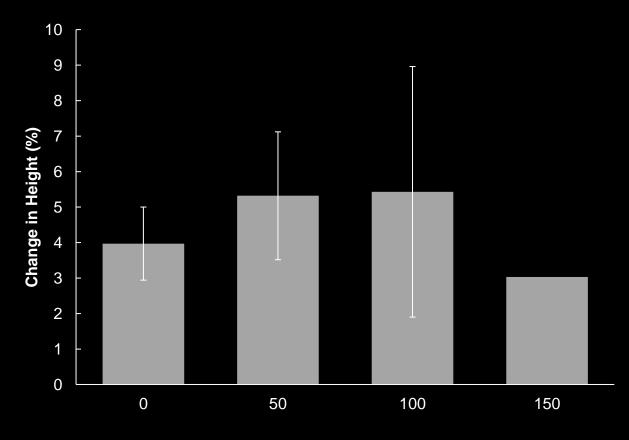
month for 5

months

addition every

Mortality of 17 plants at 120 days



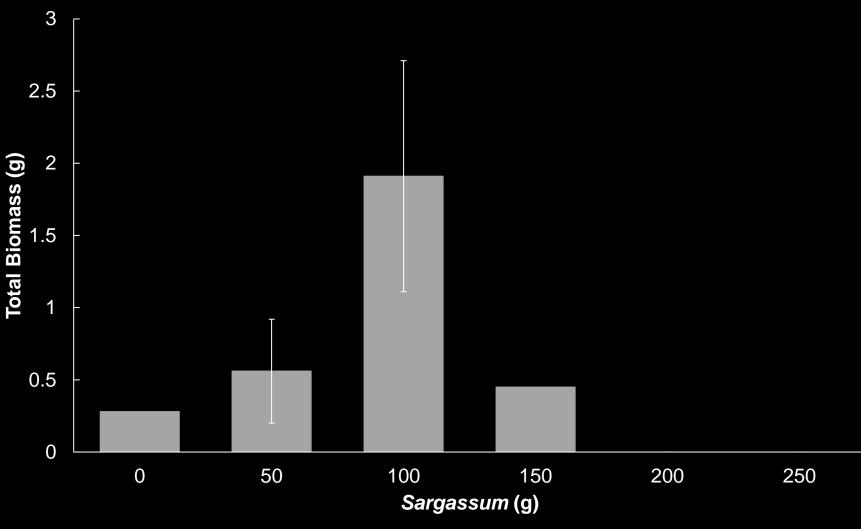


Log-rank test: p = 0.018









 $F_{5,18} = 3.25, p = 0.08$





- Does Sargassum act as a nutrient subsidy to mangrove growth?
 - More research is necessary
 - To the graduate students: Projects don't always go as planned! Don't be discouraged
- This work has implications for mangrove restoration and will be continued.
- Contact lsimpson@floridaocean.org with any questions.

