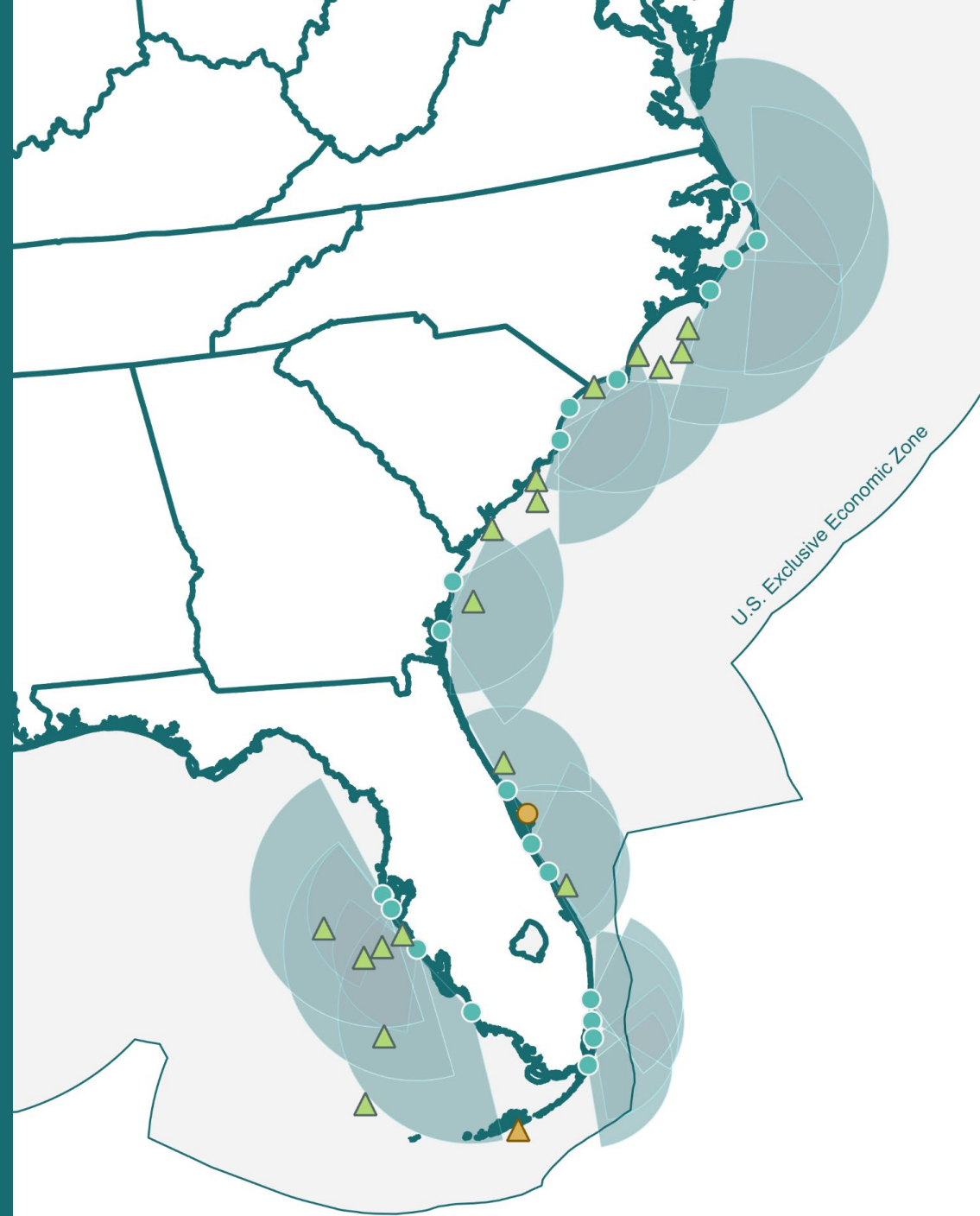


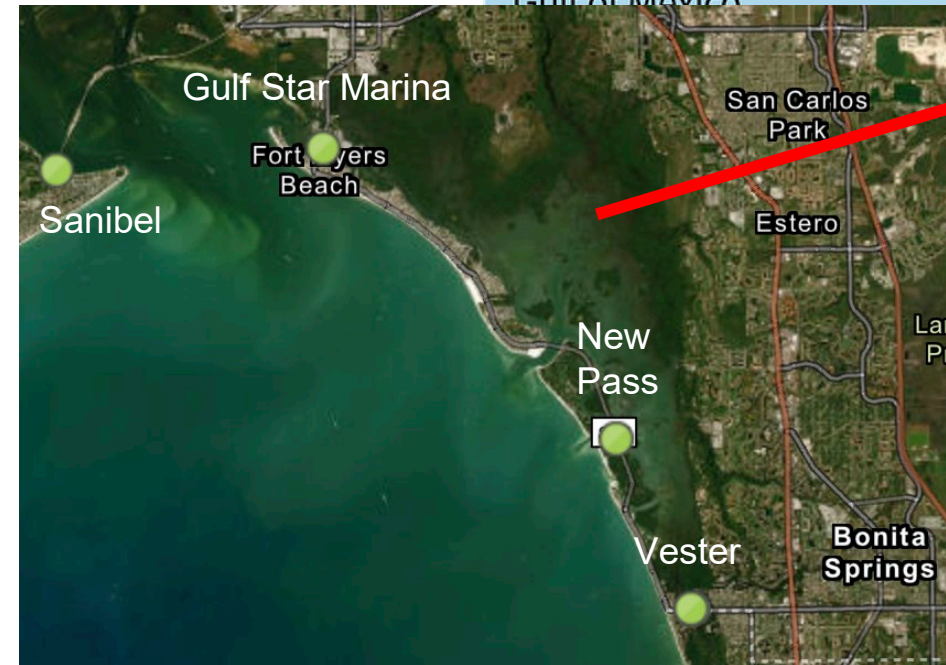
Expansion of the Estero Bay HAB Water Quality Monitoring Network

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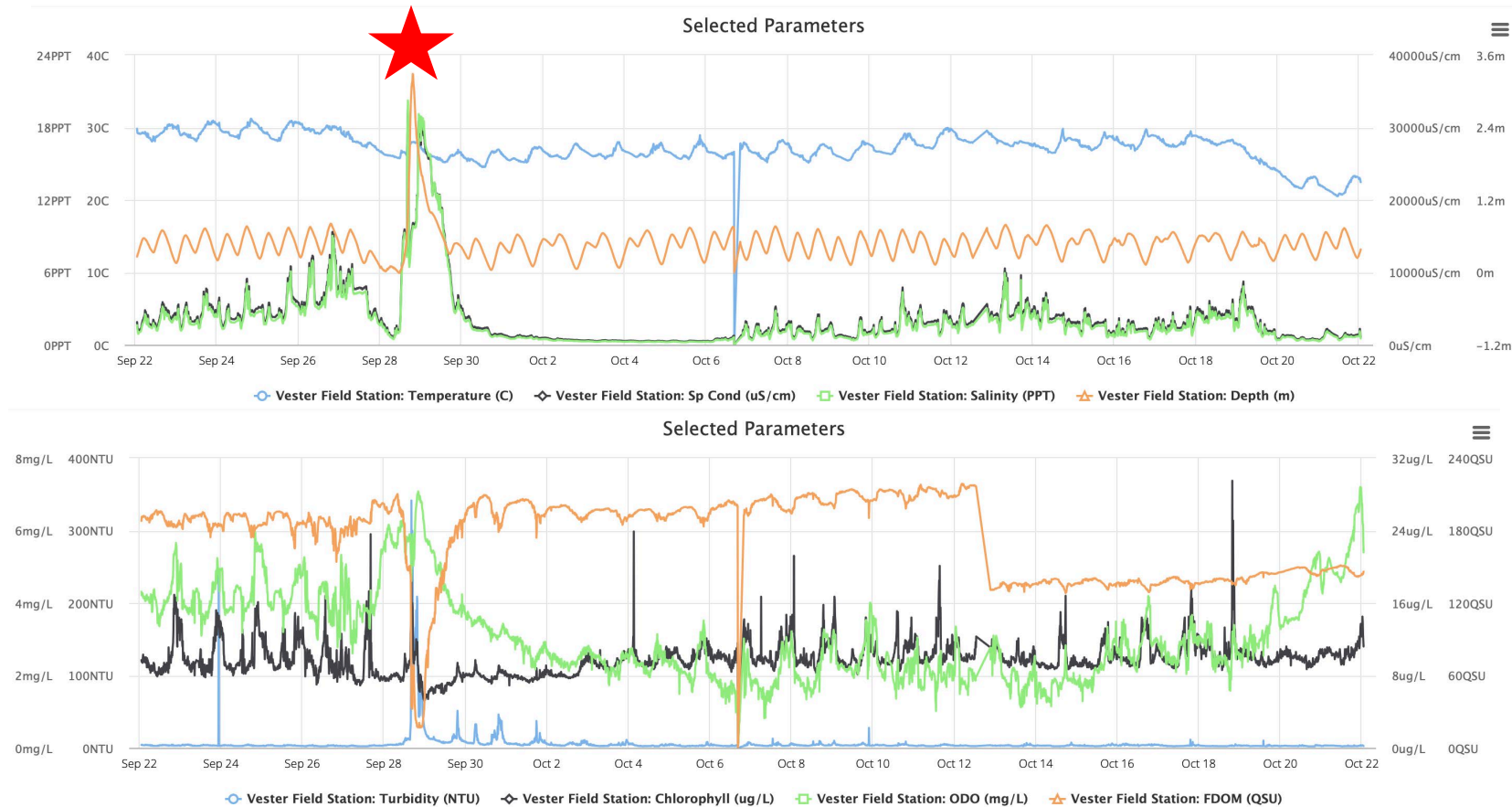
Overview

- Using YSI EXO2 datasondes and YSI EMM25 buoys to monitor for local HABs
- Four stationary YSI EXO2 datasonde locations throughout Estero Bay, FL
- Two buoys used for rapid response
- Two auto samplers used for monthly grab samples
- Live stream data on FGCU Vester Field Station website



Accomplishments

Hurricane Ian – Sep 2022



- Originally proposed two YSI EXO2 datasondes
- Now have four stationary locations with a fifth one being deployed soon
- In the last six months, 16 auto sampler deployments
- Started to develop a phytoplankton classifier for IFCB analysis



Looking Ahead



- Use buoys for rapid response (bloom event, high discharge event, accidental spills of fuel, gray water, etc.)
- Auto samplers will be used once a month
- IFCB will be used to create a catalog of phytoplankton species

