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