Detection, Driver-Response Analysis and Forecasting of Cyanobacterial Harmful Algal Blooms under a Changing Climate

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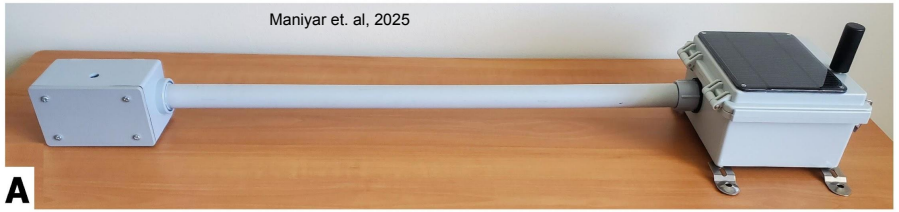
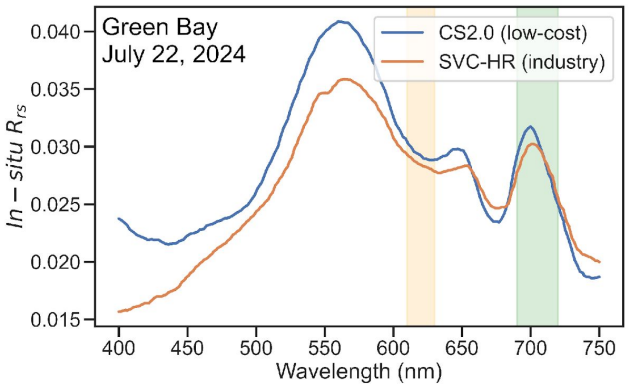




Low-cost CyanoHAB Sensor;

Cost: $1,300; Deployable

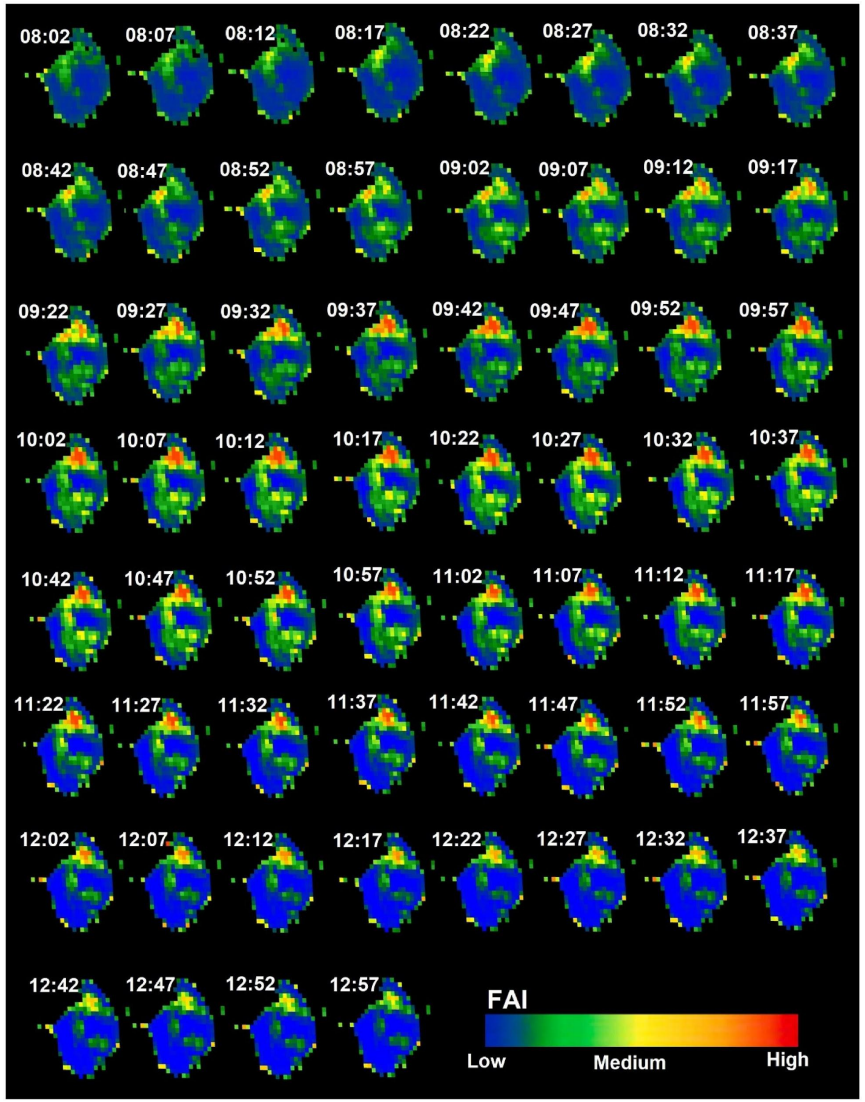
Physics-informed Phycocyanin estimation model:
Satellite Rrs + IOP – PACE/Sentinel-3/GOES

Multidecadal timeseries – CyanoHAB Drivers and Forecasting; Latitudinal Variability

Toxin + Health Risk Maps; Opensource GEE dashboard options for water managers

Project Website;
Report a HAB!
GEE Dashboard

Rapid Migration of



22-EARTH22-0277; PI: Deepak R.