

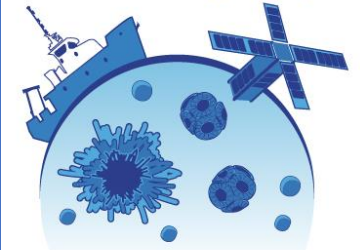


Dr. Sara Rivero-Calle

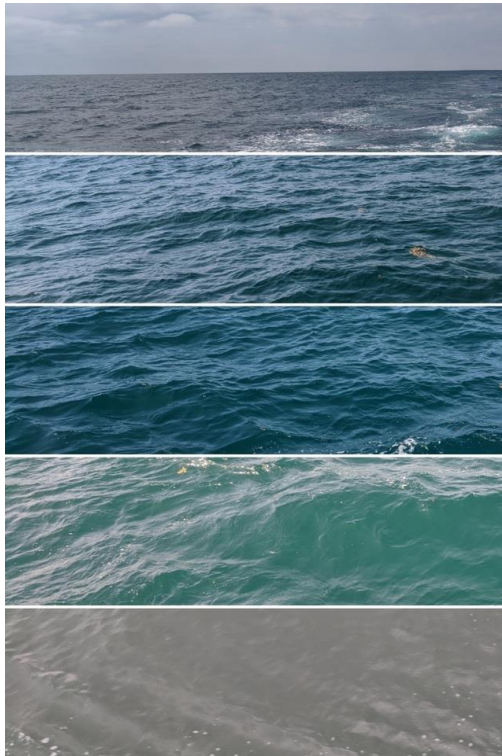
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Bio-Optical and Satellite
OCEANOGRAPHY LAB



Ocean Optics



Satellite Remote Sensing

Interests

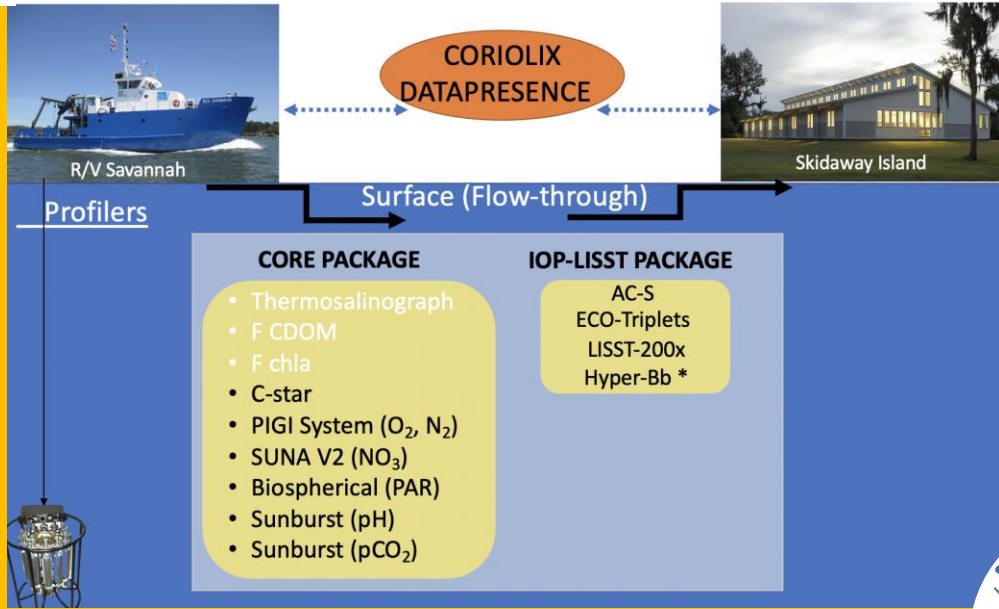
- Phytoplankton blooms
- HABs
- Water quality
- Net Community Production
- Marine Debris





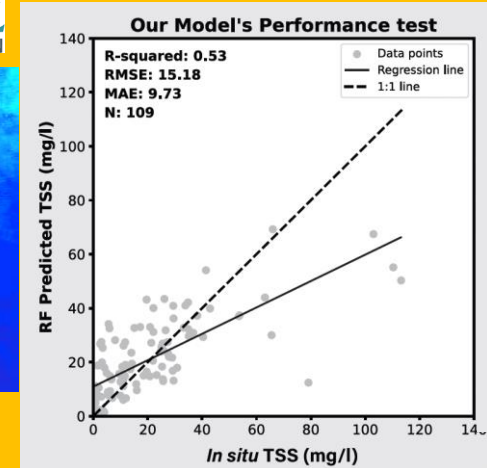
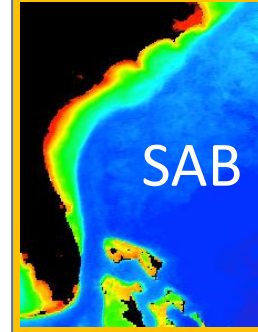
BiOMe:

A shared-use flow-through system of Biogeochemical Optical Measurements



Developing new regional satellite algorithms

Total Suspended Sediments

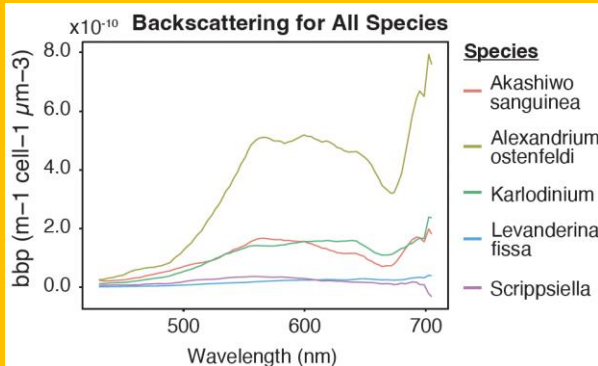


Tested TSS Algorithm	R ²
This Study	0.53
Nechad et al. (2010)	0.02
Hou et al. (2017)	0.00
Zhang et al. (2010)	0.02
Alvado et al. (2021)	0.01
Miller and McKee (2004)	0.02
Xu et al. (2021)	0.02
Petus et al. (2010)	0.02
Jiang et al. (2011)	0.02
Balasubramanian et al. (2020) (SOLID)	0.04

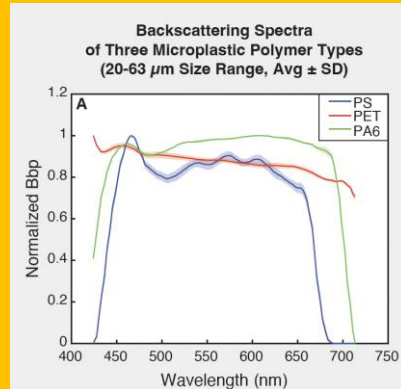
Masud-Ul-Alam et al., in prep.

PPLS: Prototype Instrument

Characterizing optical properties of HABs and microplastics

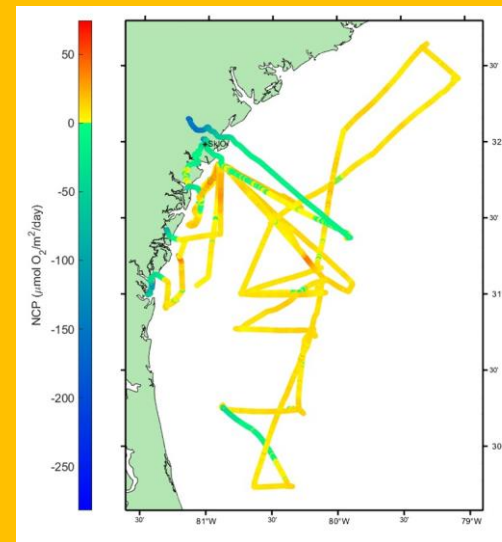


Hunt, MSc. thesis



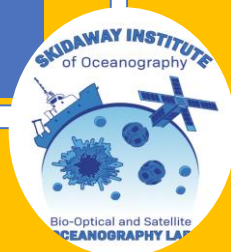
Ohall et al., in prep.

Net Community Production



Lowin et al., 2024

Lowin et al., in prep.

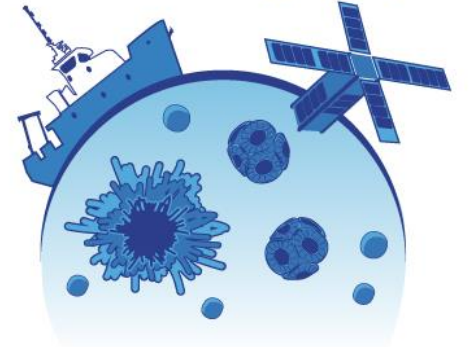


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