

Understanding the Environmental Drivers of Sargassum

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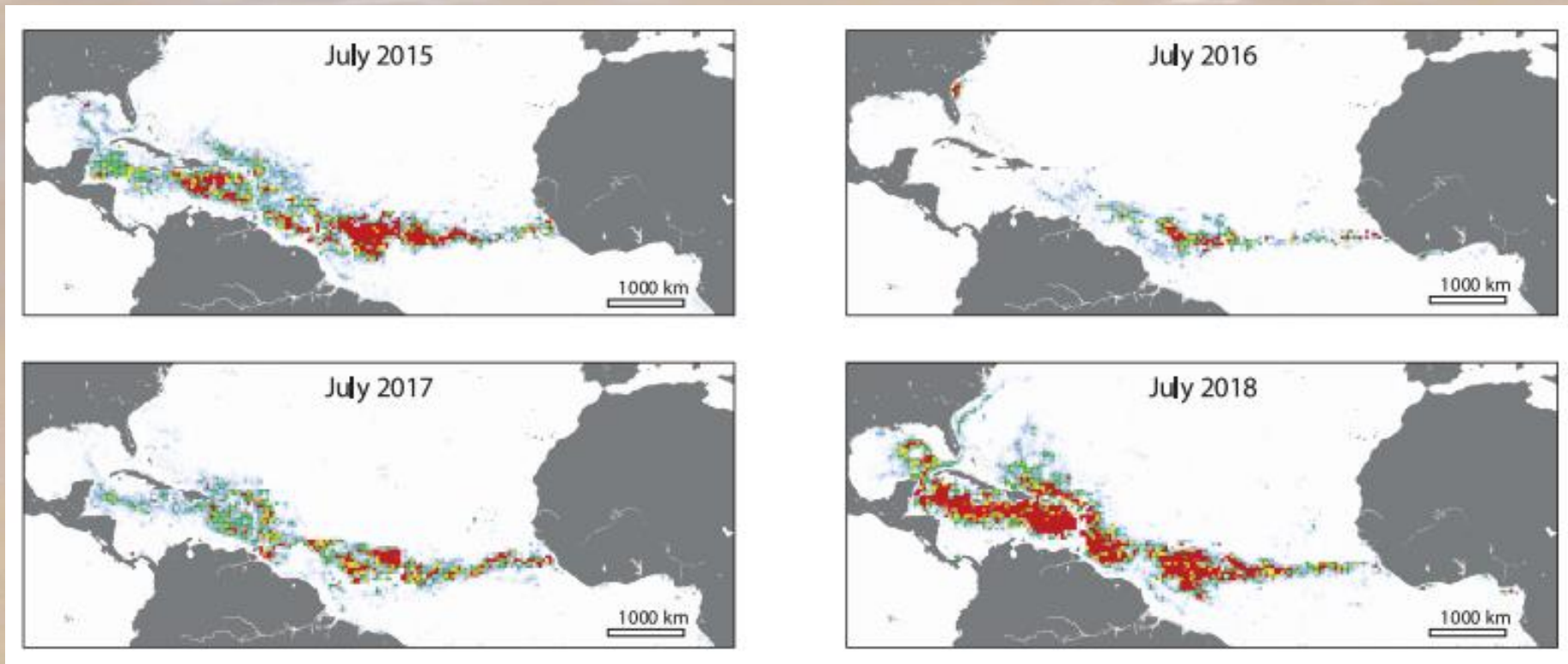
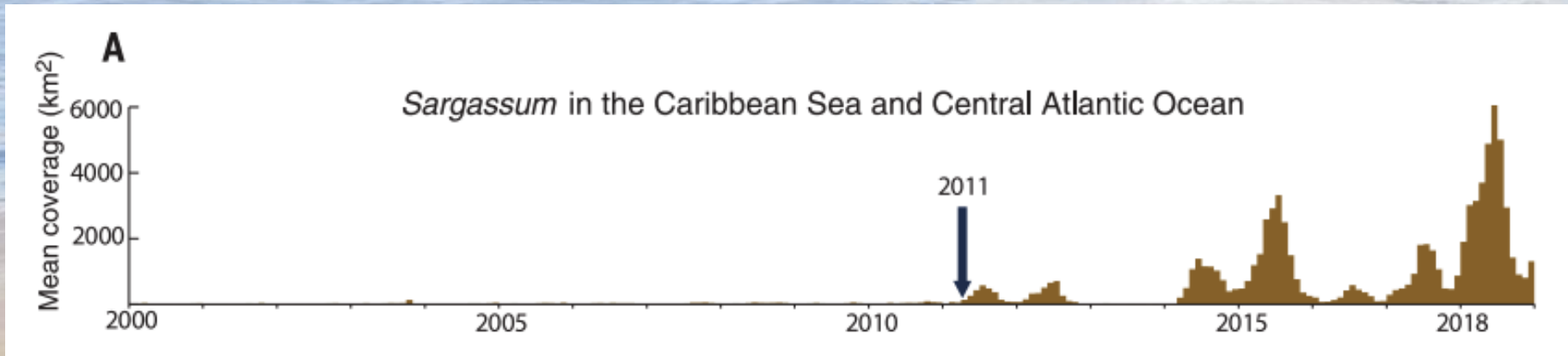
PACE 3 Meeting
February 20, 2025



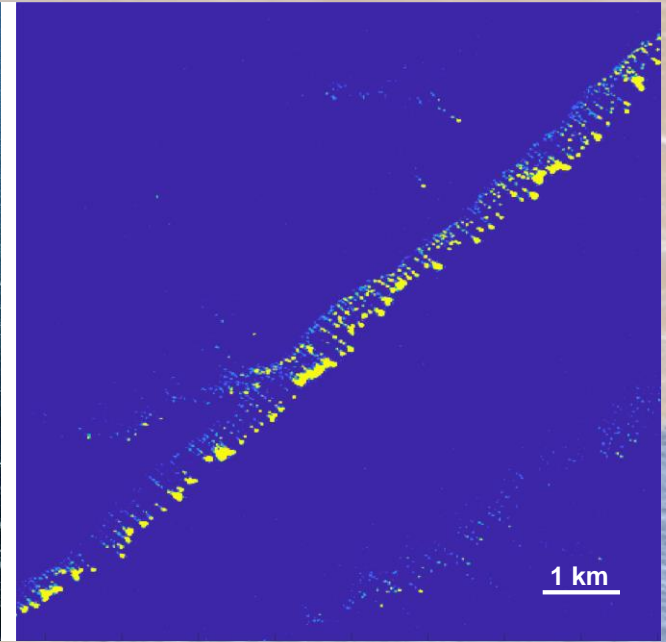
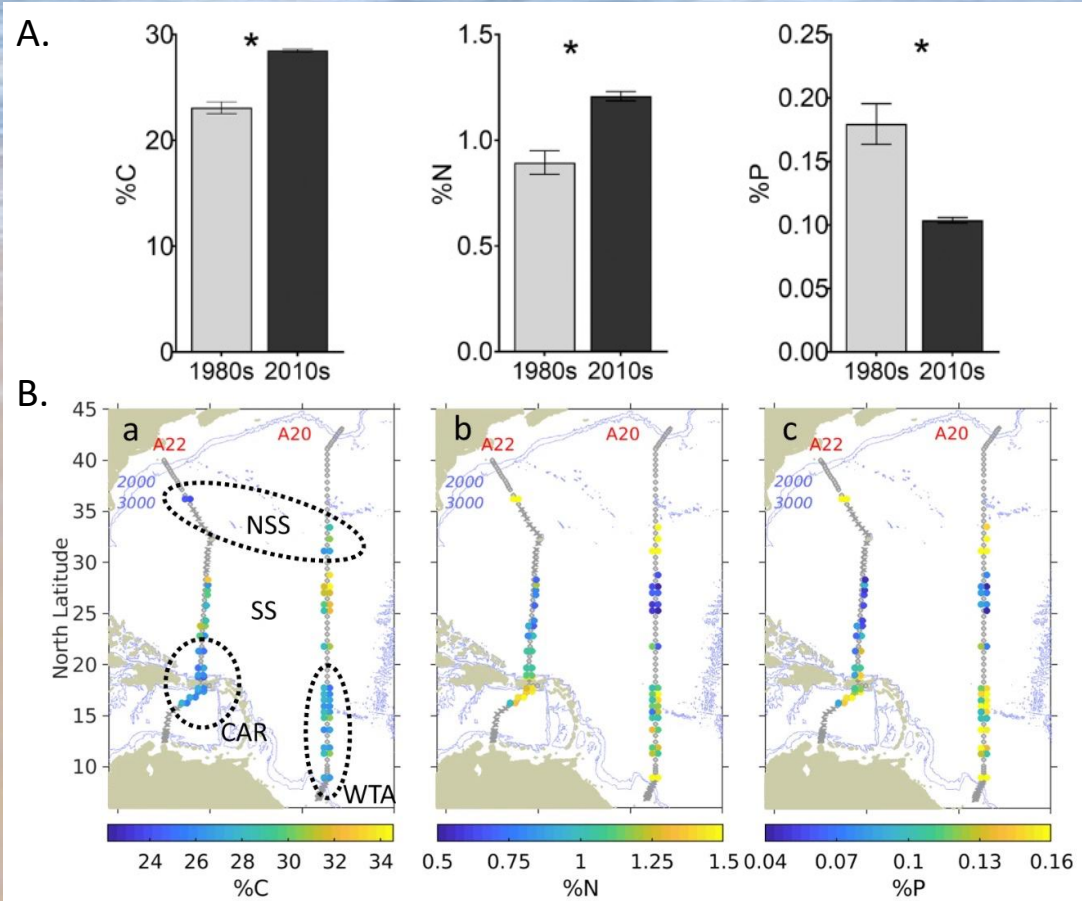
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Sargassum has been increasing in the Atlantic



Spatial and temporal variation in elemental content

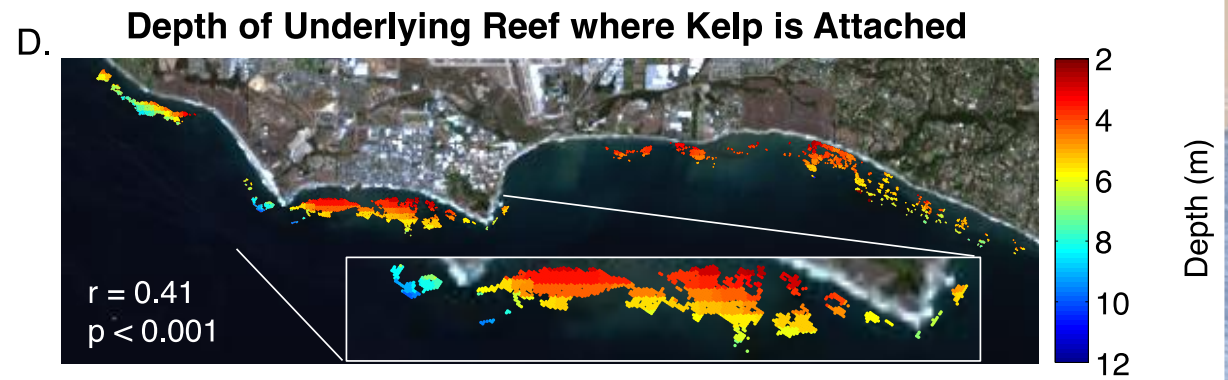
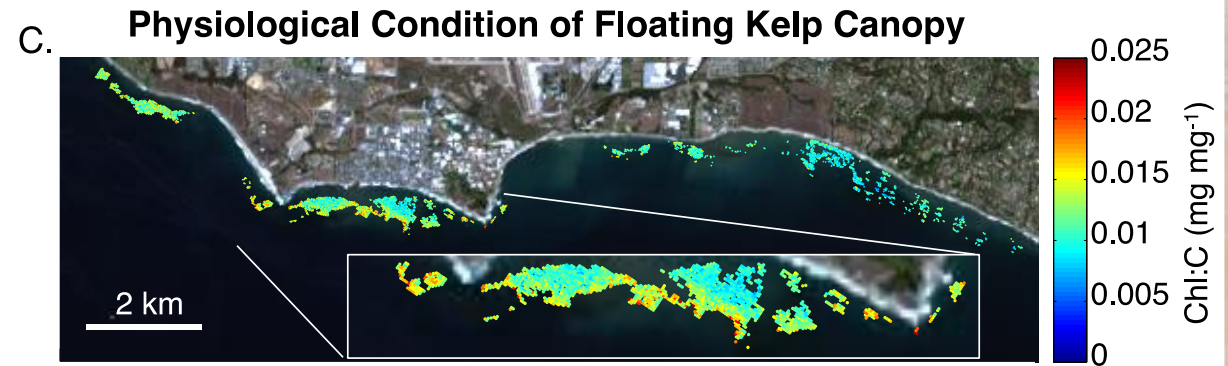
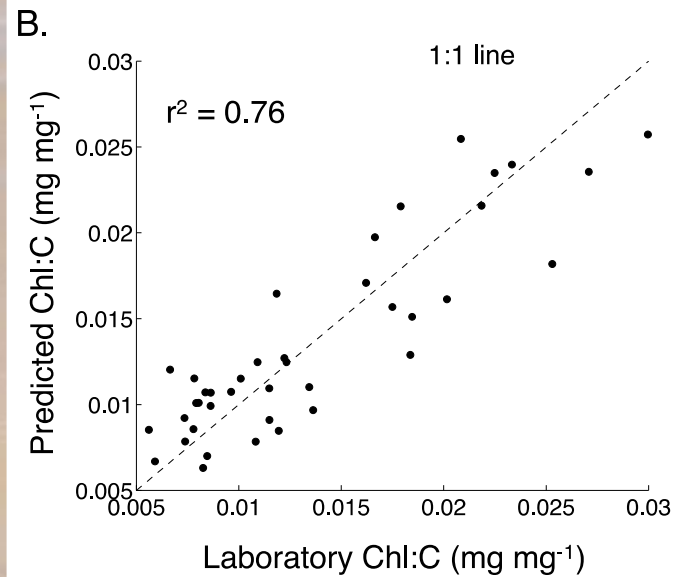
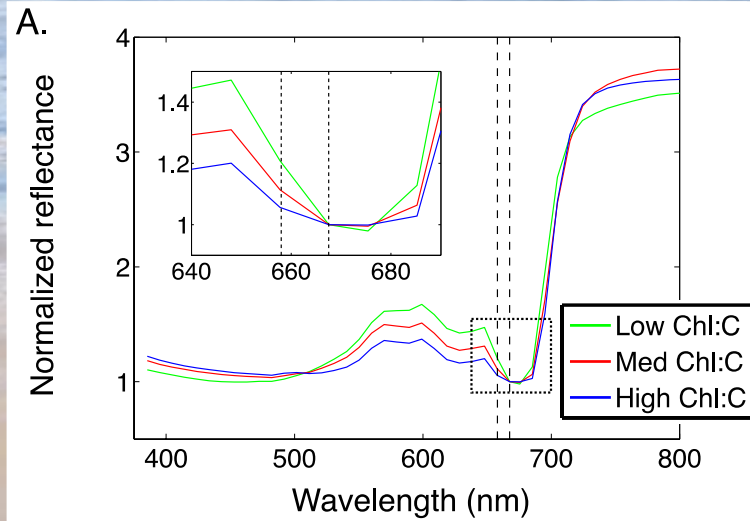


Following Hu 2009

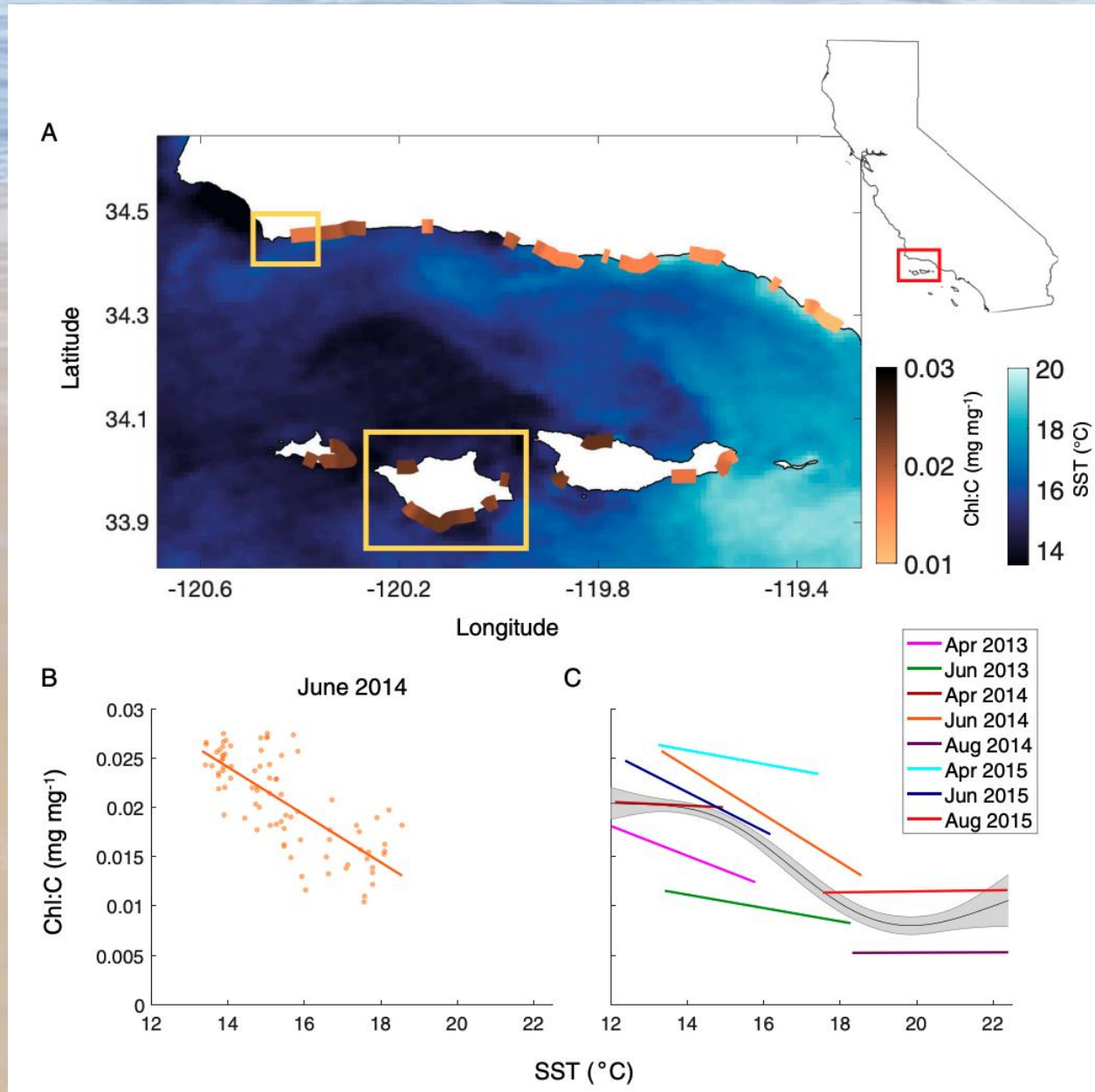
Lapointe et al. 2021; McGillicuddy et al. 2023



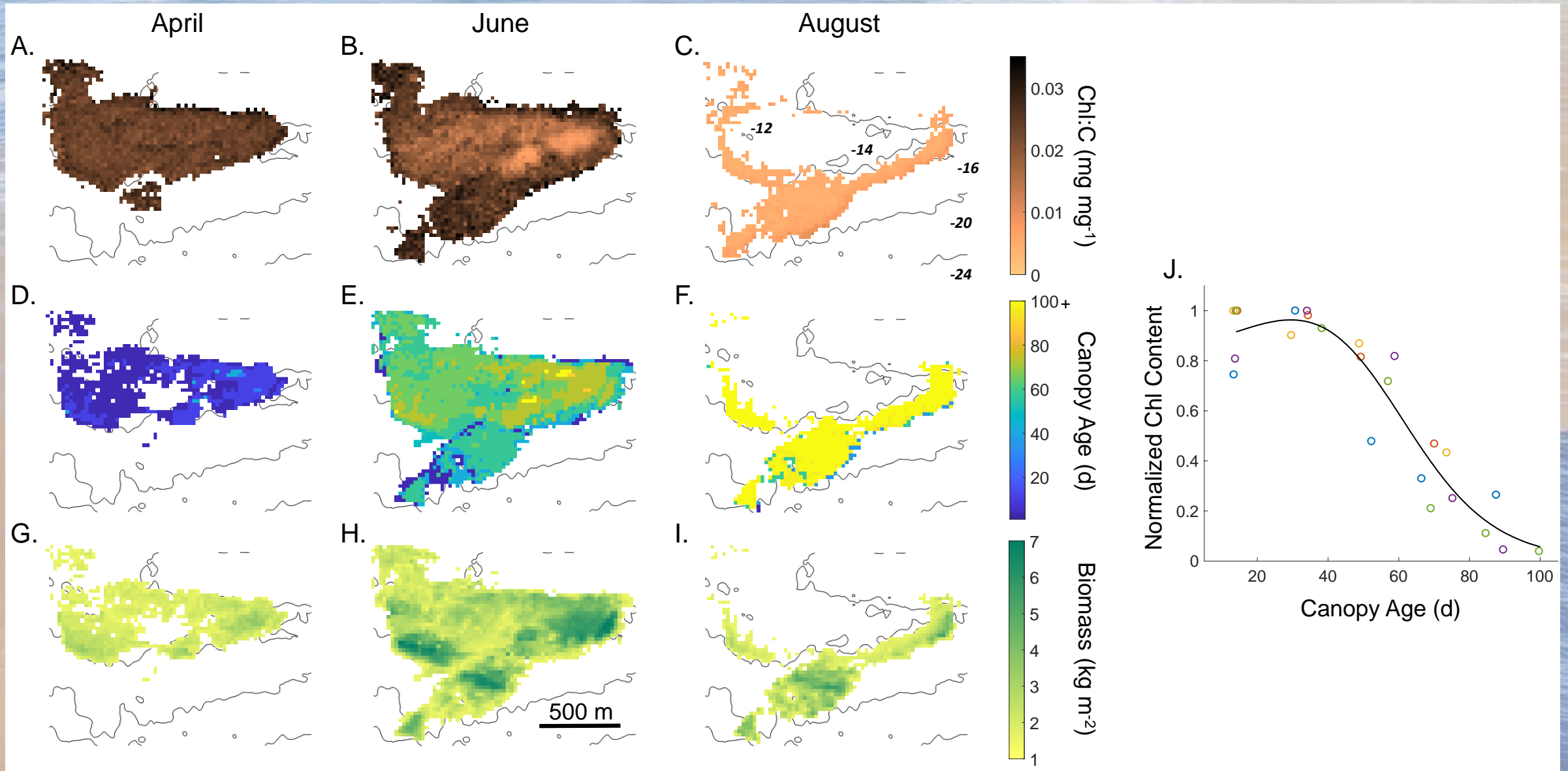
Physiological condition algorithm for floating kelp



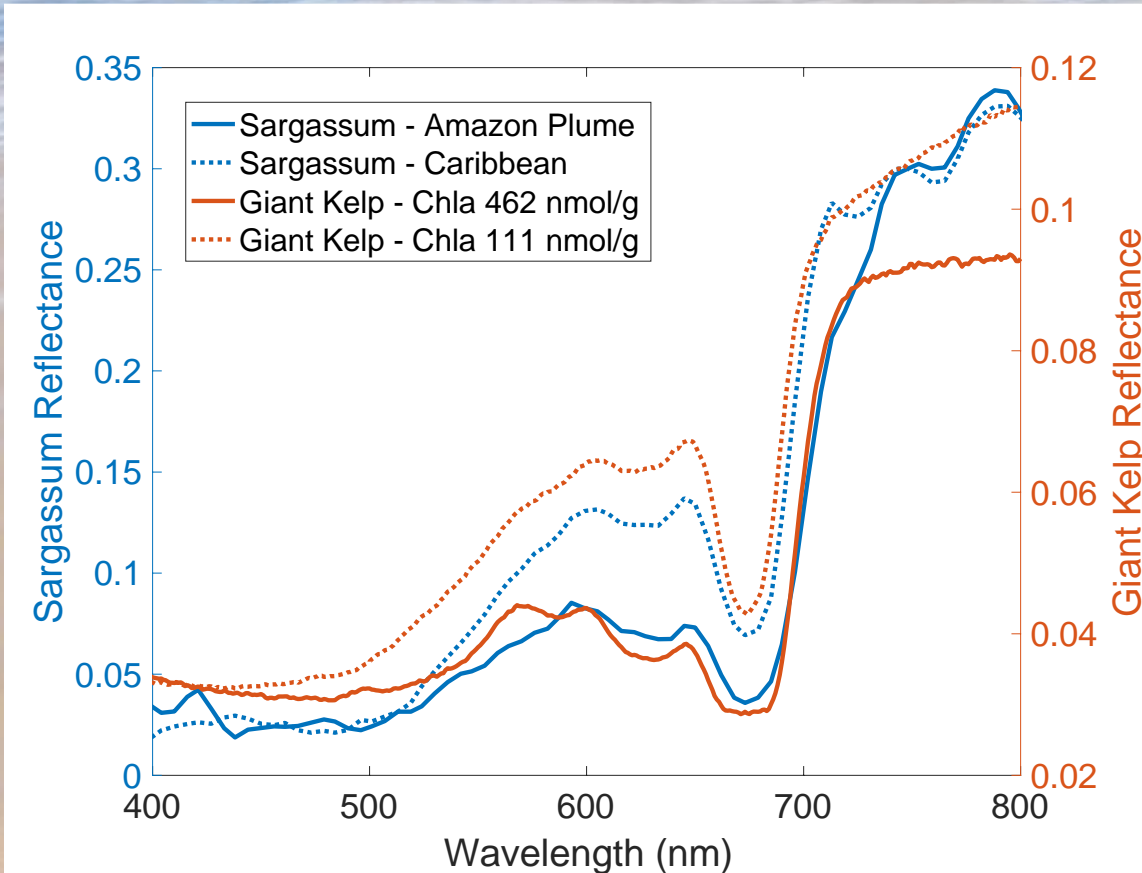
Regional condition associated with seawater nutrients



Local condition associated with senescence

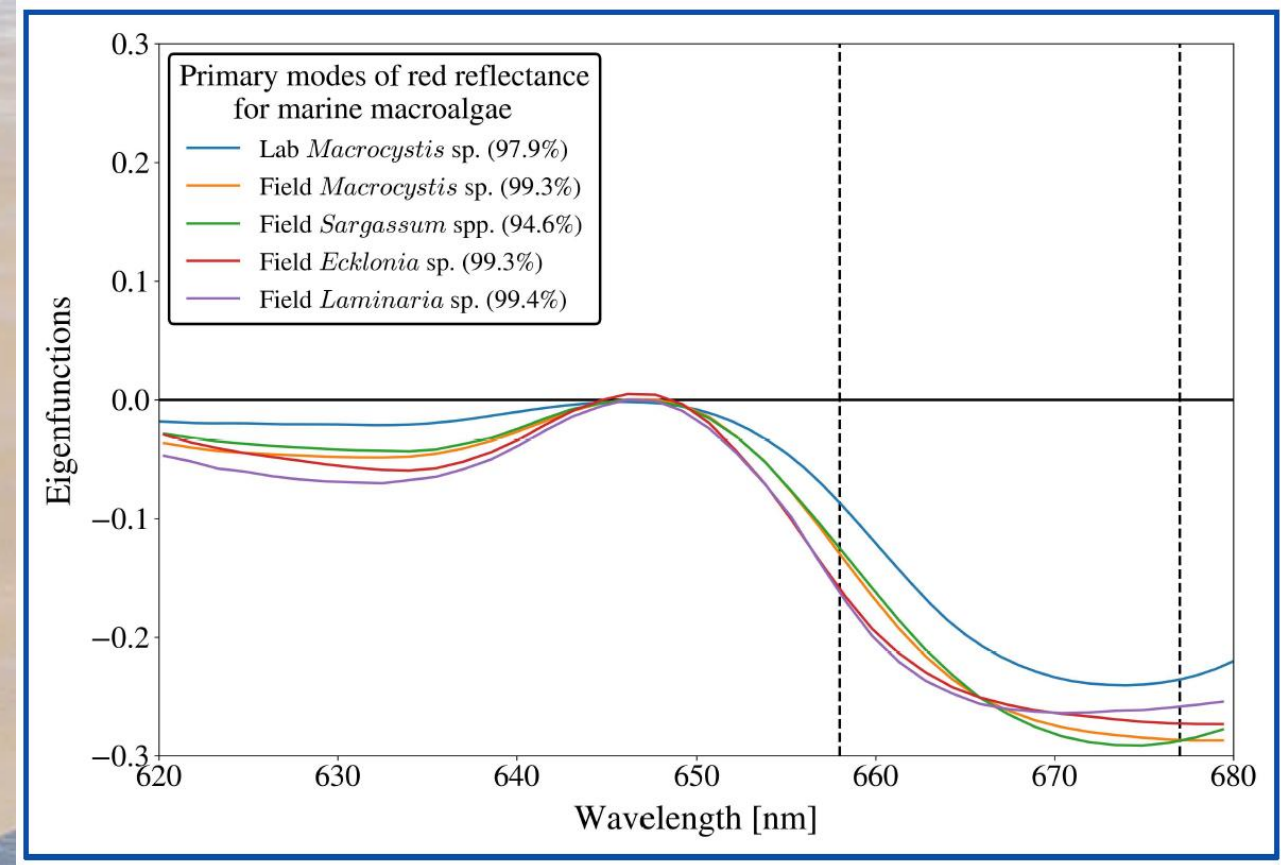


Spectral similarity between species



Data from Bell & Siegel 2023; Hu 2022

Preliminary Results



Thank you!

Contact

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NOAA PNE Cruise

