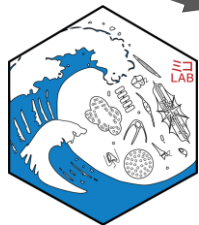
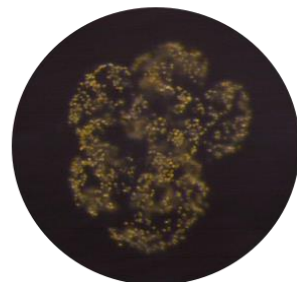
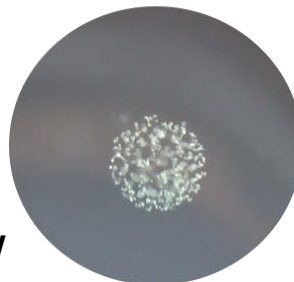
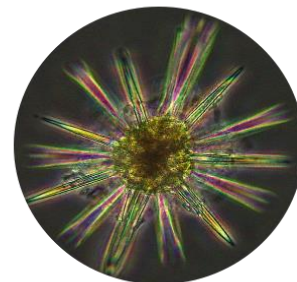
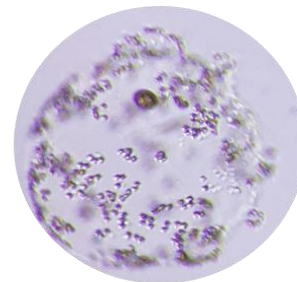


Margaret Mars Brisbin

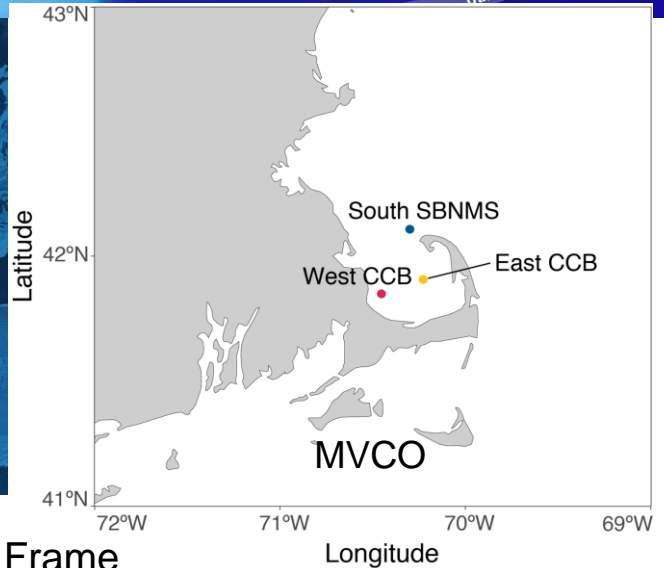
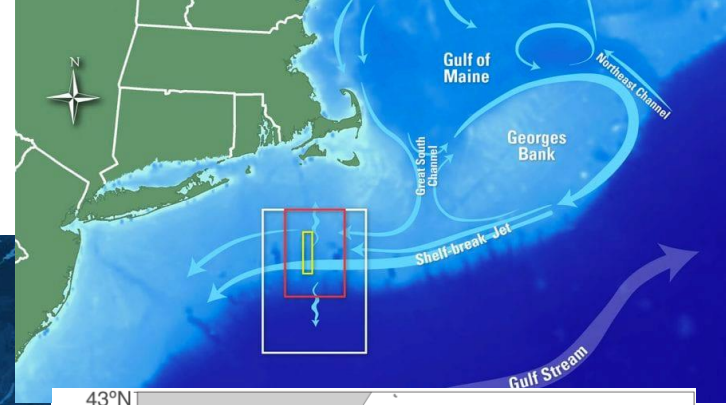
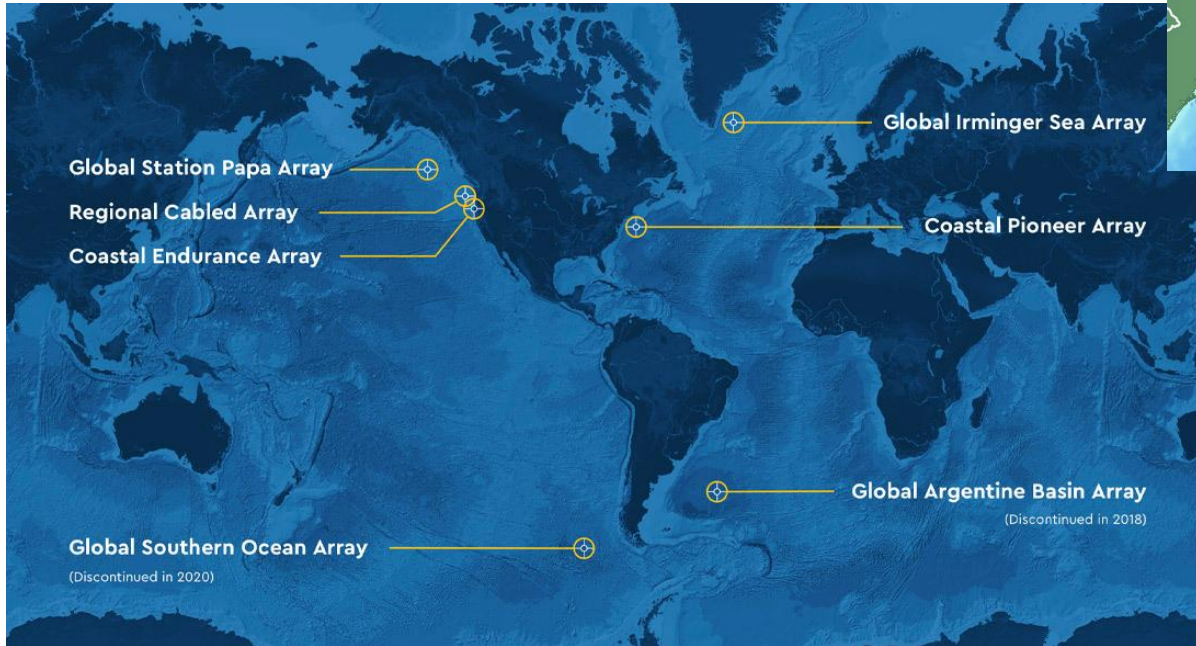
Simons Foundation Marine Microbial Ecology
Postdoc Fellow
Saito & Alexander labs
Woods Hole Oceanographic Institution



Assistant Professor (August 7)
Biological Oceanography
University of South Florida
College of Marine Science
<https://micolab-usf.github.io/home/>



OOI Workshop Data Exploration



Pioneer Array, Inshore Surface Mooring, Near Surface Instrument Frame
CTD, Flort, OPTAA
Time-series

Largely an exercise in data wrangling

- Grouped by hour and took median in order to match up with optaa data
- Nitrate: converted values less than -2 (?) to 0

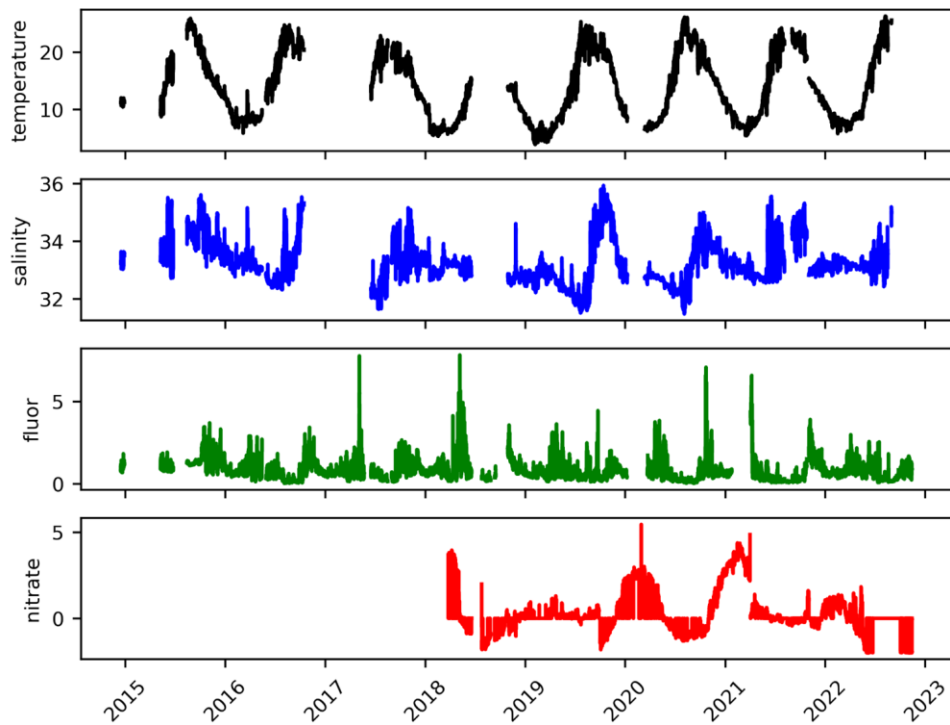
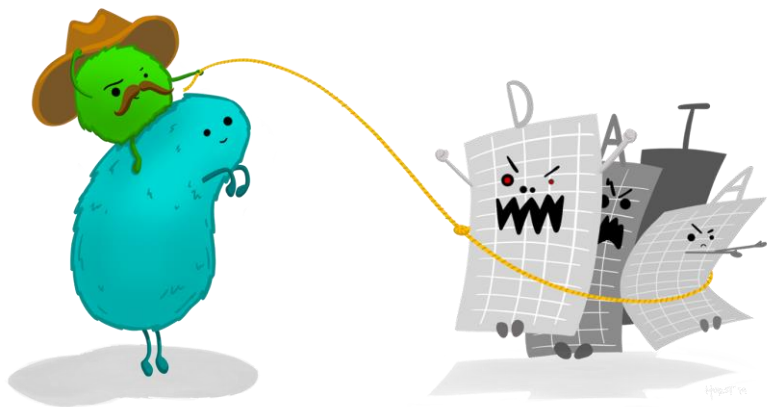
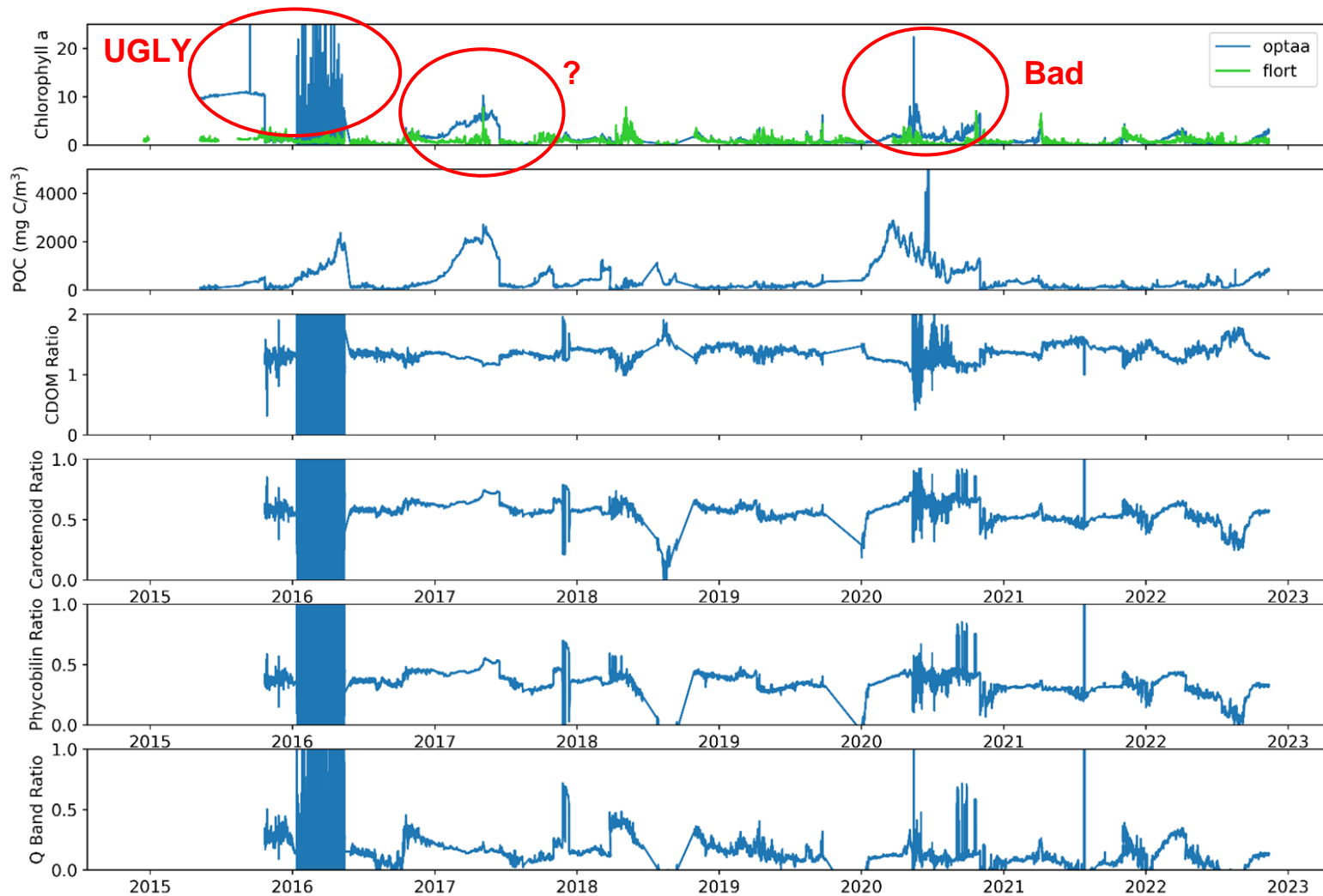
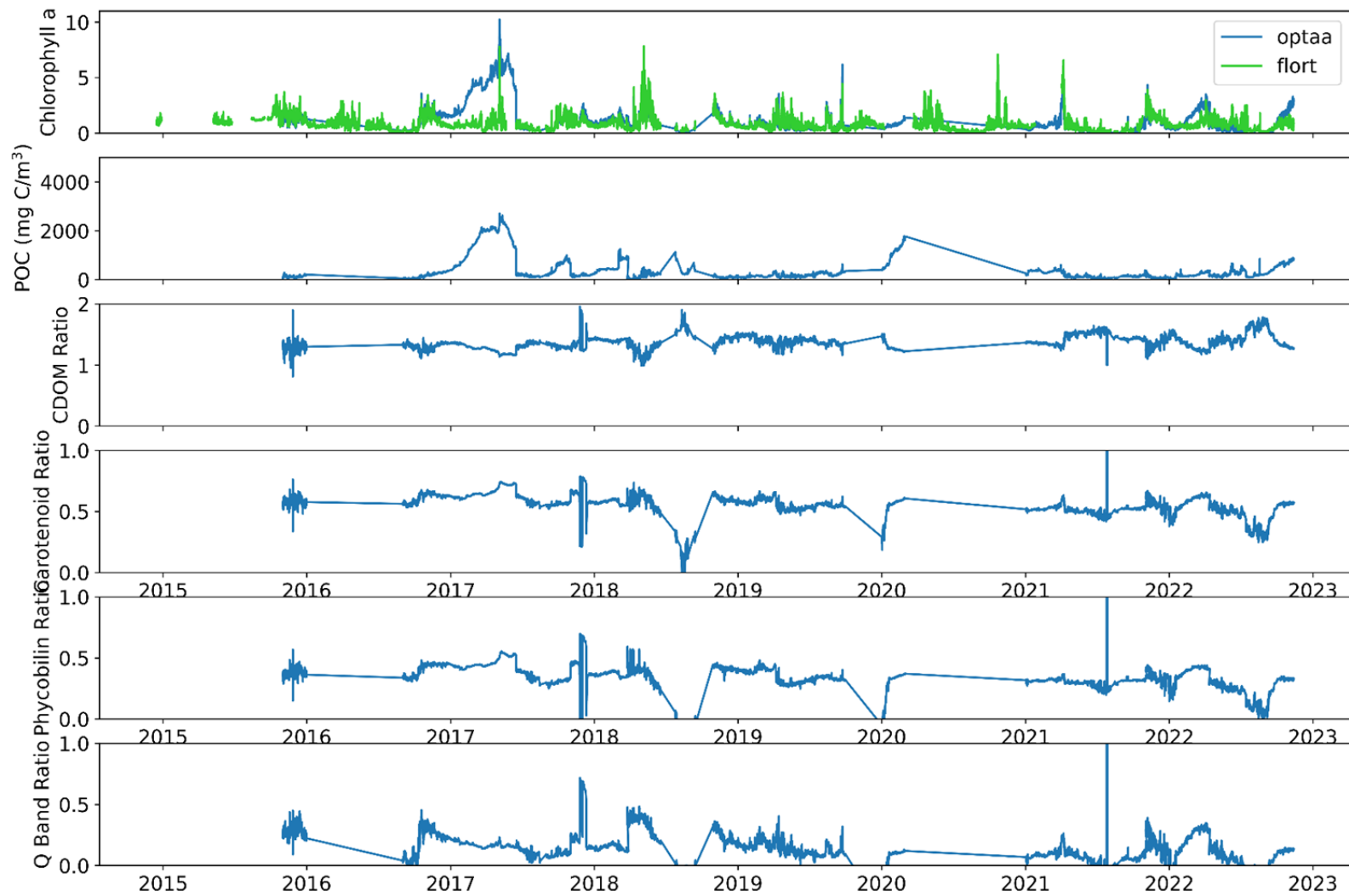


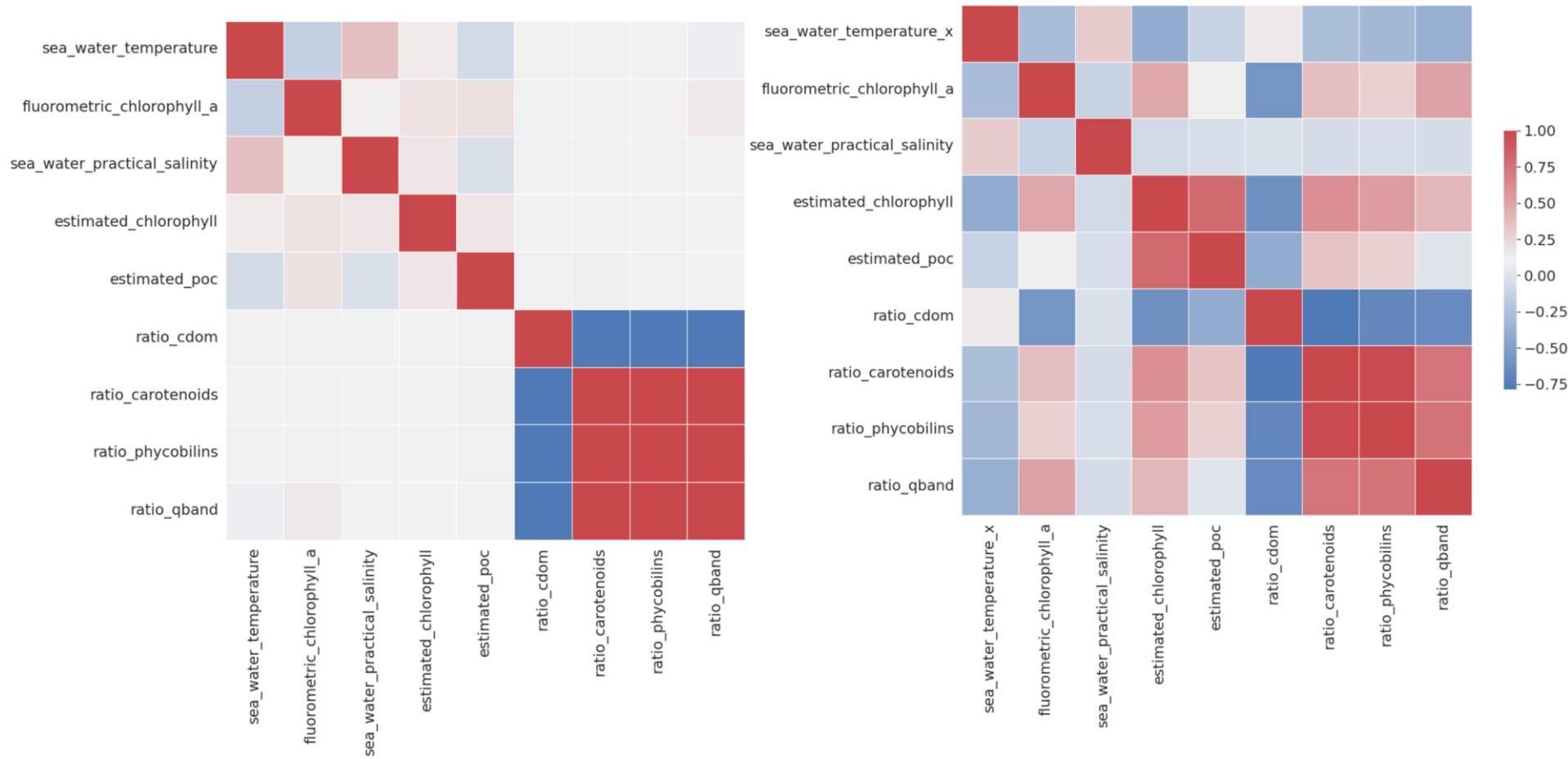
Illustration by Allison Horst



Cleaned better?

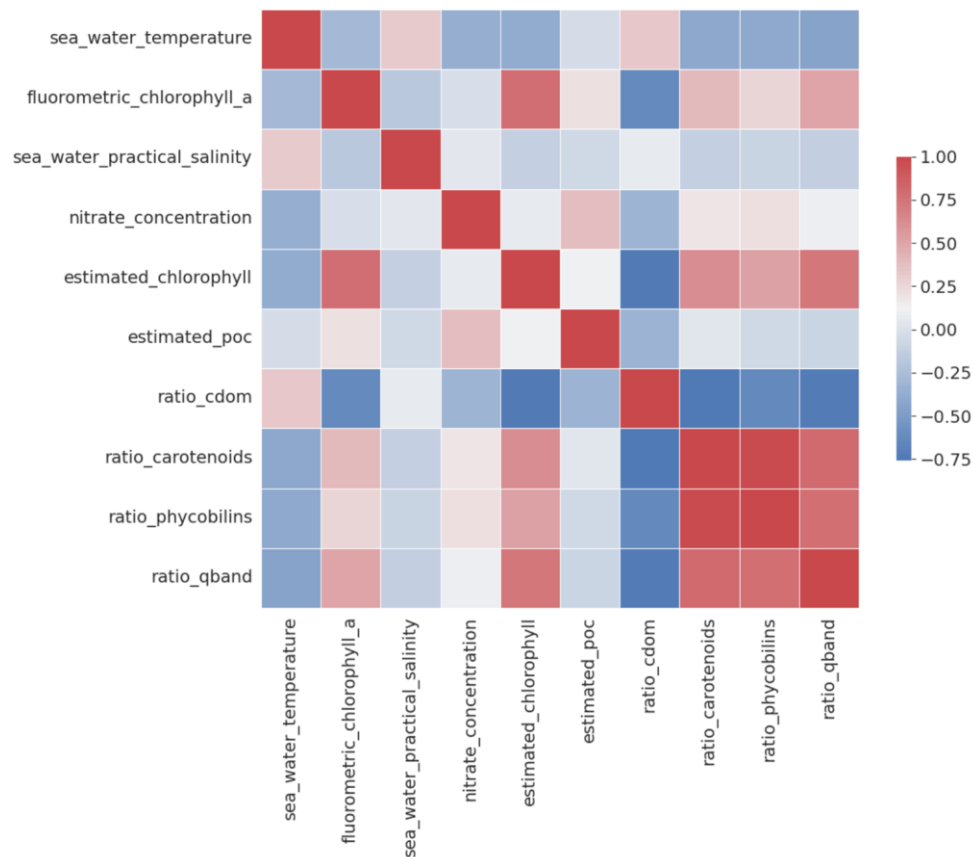


Improved relationships between variables:



With nitrate

- Adding nitrate reduces the length of the time series
- Nitrate + corr with POC, carotenoids, phycobilins
- Nitrate - corr with chlorophyll
- Not expected trend? Maybe lagged correlation (looking at nitrate and flort plots)



Other variables of interest:

PAR

Mix layer depth

Future exploration



Bio-optical evidence for increasing *Phaeocystis* dominance in the Barents Sea

A. Orkney¹, T. Platt², B. E. Narayanaswamy³,
I. Kostakis^{4,5} and H. A. Bouman¹

Phil. Trans. Royal Society A (2021)

(Used satellite data)

Could inform AC-S data
exploration for Phaeo signal @
Irminger and Southern Ocean

