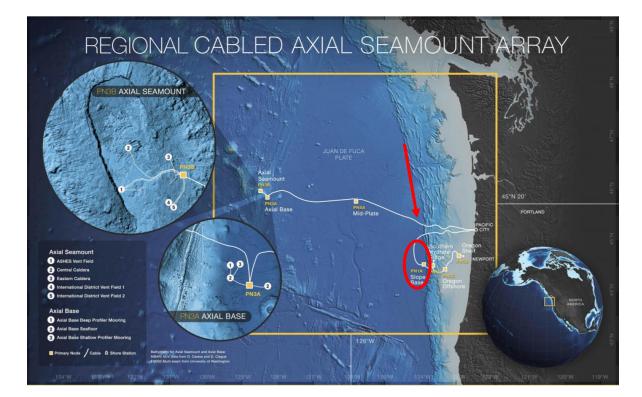
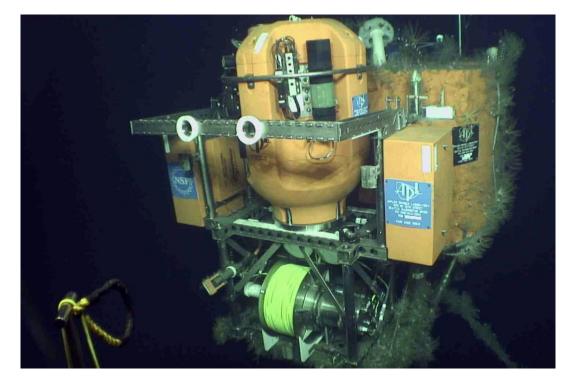
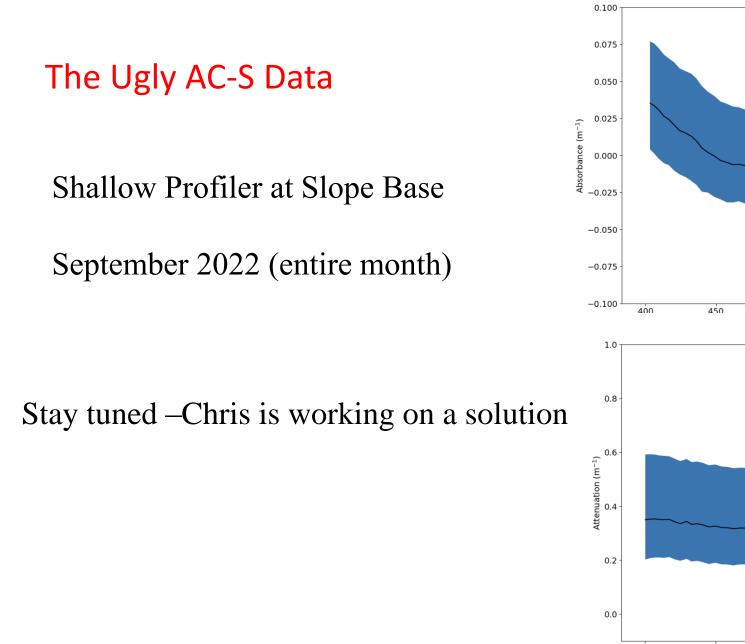
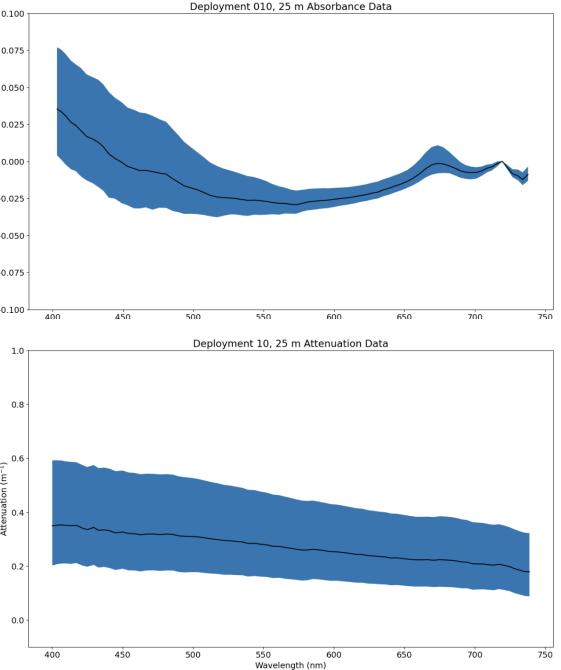
The Ugly, the Good, and the Really Exciting

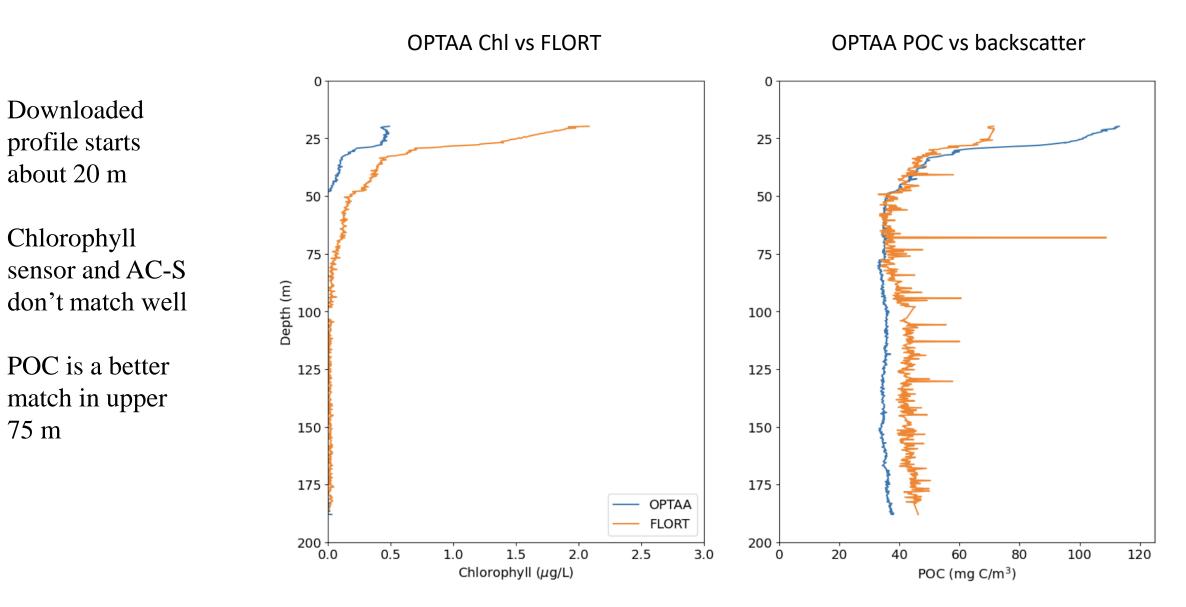
Kendra Daly University of South Florida







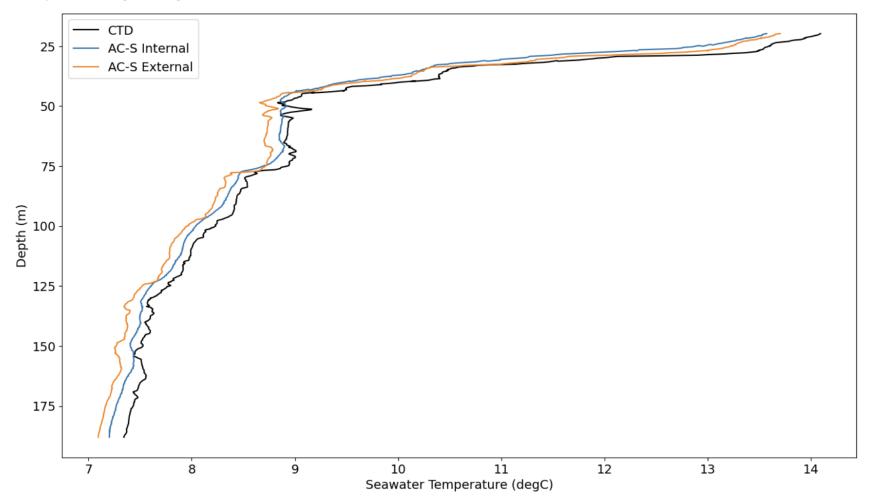




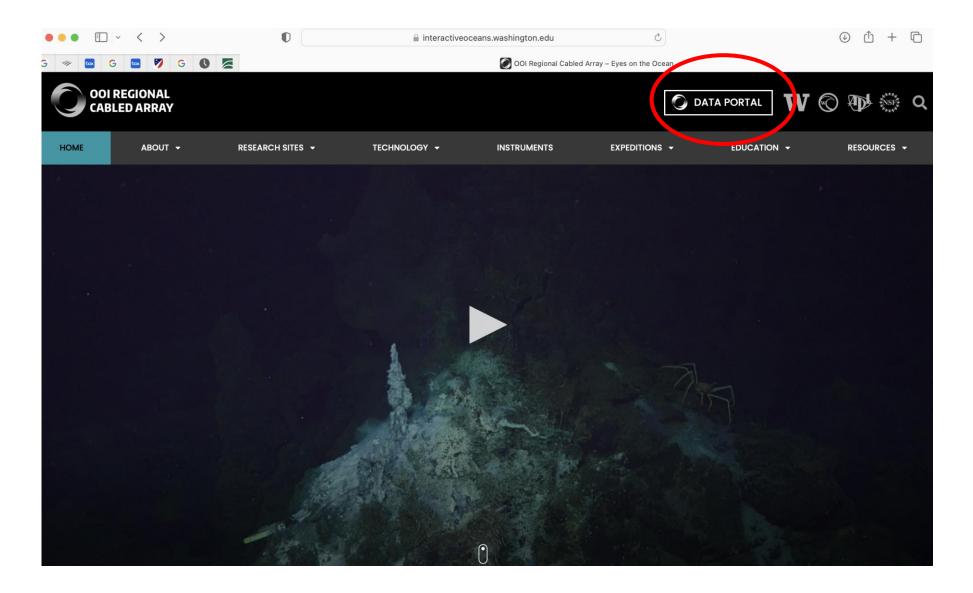
September 2022

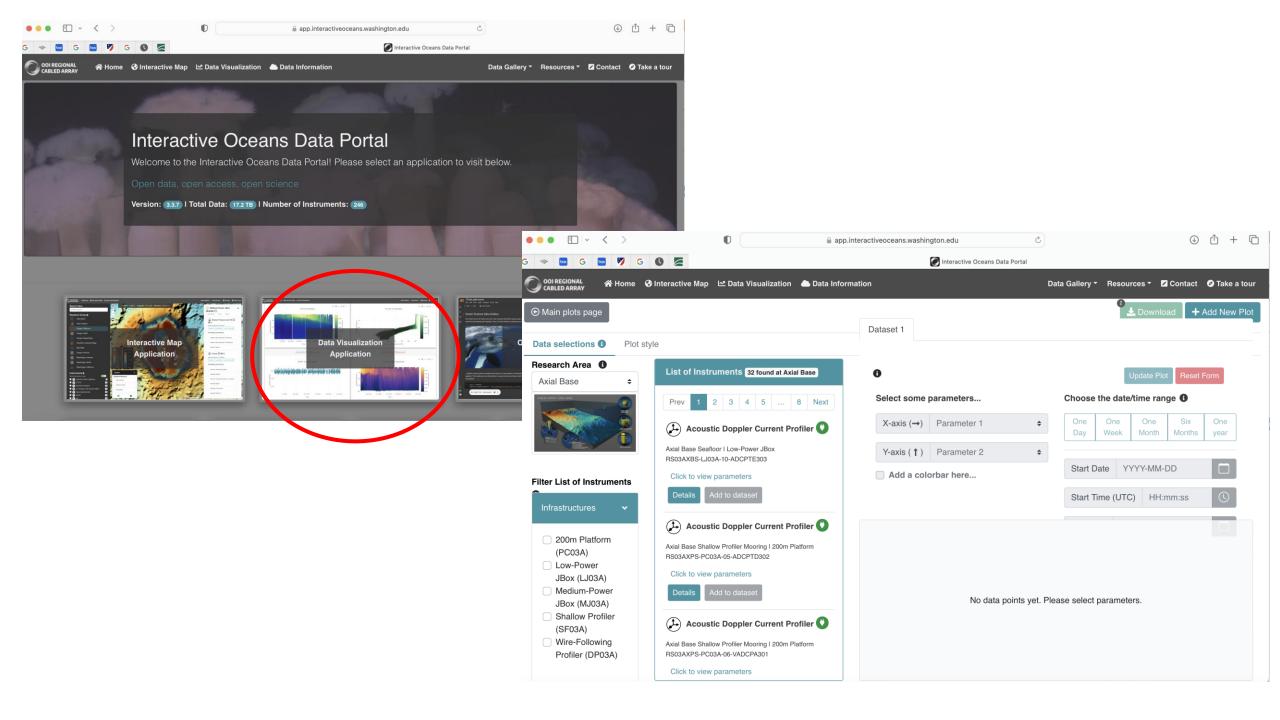
The Good: Temperature matches pretty well

[9]: <matplotlib.legend.Legend at 0x7f8ea853fee0>



Regional Cabled Array Website: Data Portal and Plotting Tools https://interactiveoceans.washington.edu

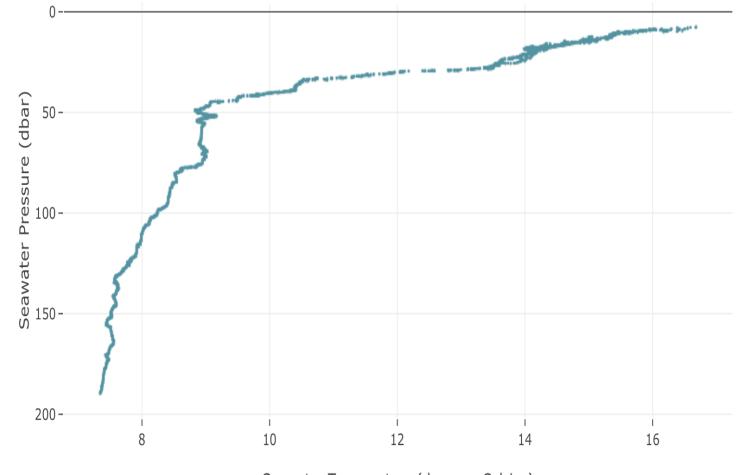




The Really Exciting Ancillary Data

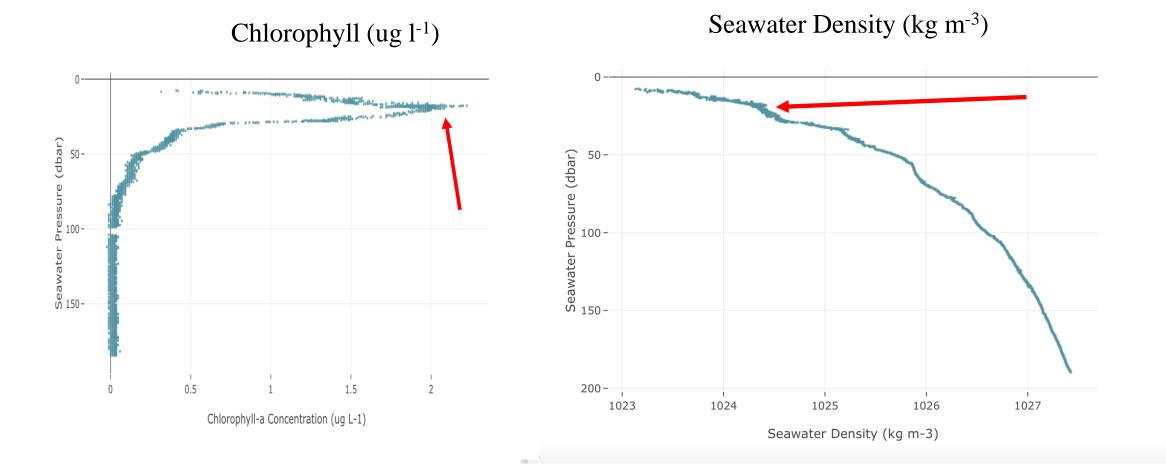
Seawater Temperature (°C)

- Downloaded profile data shows that AC-S was missing data
- Need to better define a profile when downloading AC-S data or any profile



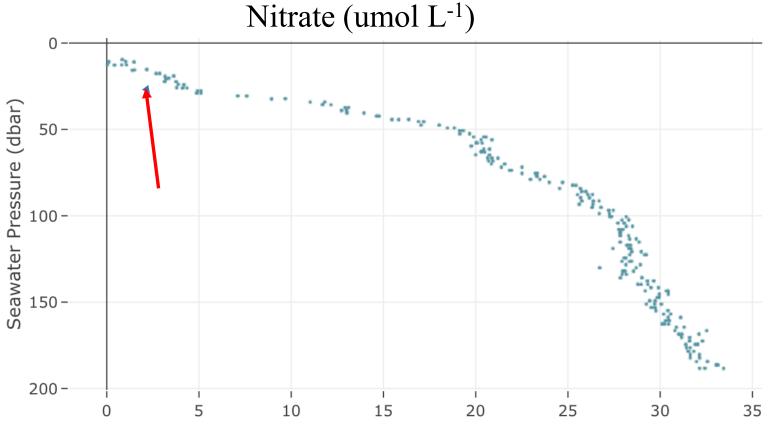
Seawater Temperature (degrees_Celsius)

Thin Layer!! Chl bloom - 2 ug chl l⁻¹ peak at 17.7 m sits on density interface



Thin layers are concentrated aggregations of phytoplankton and zooplankton in coastal and offshore waters that are vertically compressed to thicknesses ranging from several centimeters up to a few meters and are horizontally extensive, sometimes for kilometers.

SUNA Nitrate at detection limit near surface; about 3 umol L⁻¹ at 17 m



Dissolved Nitrate Concentration (umol L-1)

PAR at noon: Chl max at 20% of $I_{0.}$

Phytoplankton are in their happy place!! \mathcal{A} .

Photosynthetically Active Radiation (PAR)

