Homework assignment #1

OOI Bio-Optics Summer School
Homework assignment #1 charge

- Creation of Simple plots:
    o Re-create the exemplars from the pre-work assignment and what we just covered
    o Raw AC-S spectra: L1 versus L2 processed data using Juypter Hub and kdata
    o Temperature plots: CTD, ACS external, internal comparison and interpretations
    o Chl (fluormetric derived) versus Chl derived from absorption line height

- Interpretations
    o Why did the abs/attenuation spectrum change in the processing: comparison from raw AC-S data (L1) to final L2 product?
    o POC estimates using L2 data: what did you infer from this and what additional data do you need to understand POC patterns?
    o Is absorption by CDOM a factor in the data interpretations? Why or why not?
    o Interpretations on phytoplankton community structure: absorption spectra relative to pigment structure and absorption?

- Where did you struggle in working with the data sets?
    o Accessing the data?
    o Saving data: formats and using it for your own purpose?
    o Data formats and the OOI portal/ Juypter Hub?
    o Understanding of how/processing steps of the curated data set?
    o Interpretations of the output data sets?
    o What other data do you need for investigating relationships to BGC parameters that may be of interest to you?