UWYO Buoy Data Processing Notes:

Jackson 2023:

-missing all EXO parameters from 9/9/23-10/18/23 due to low battery issues

-frequent periods of data recording at irregular timesteps throughout the above period

-EXO from Small Buoy 2 deployed at south end of Jackson Lake swapped with main Jackson buoy on 10/18/23. No pH sensor on this EXO, so pH and ORP are absent for

remainder of season. Chla and BGA values seem to be impacted by the change in individual EXOs

-frequent negative values in chla and BGA columns due to low signal (low algal biomass)

-removed weird negative values from depth\_levscout column

-removed anomalously high chla (RFU) and chla (ugL) values on 11/4/23 18:00 MST based on visual inspection of surrounding data. Brief fouling?

Boysen 2023:

- removed weird negative values from depth\_levscout column

-removed data points where all EXO parameters were 0 due to sensor malfunction

-appear to be some anomalously high CHL and BGA values, will reevaluate after analyzing relationship between sensor CHL and CHL in water samples taken by DEQ

Brooks 2023:

-no cleaning required based on visual inspection of EXO data. Some potential outliers in CHL and BGA, can reevaluate if needed

Jackson South small buoy 2023:

-EXO did not retain any data, pulled data from Freeboard portal at 4 hour increments. Some gaps in data exist, particularly toward the end of the season, possibly due to battery or internal EXO issues

Brooks 2024:

-removed chl-a outlier >15 RFU

-removed all BGA values with a z-score >5 (see R script for details)