Fluorometer Calibration Notes

2013-05-21

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2008-30 JOIS

Data had not been calibrated in initial distribution version.

2013-05-17:

Chlorophyll Data Set calibrated using routine ***cal\_fluorometer\_2008v2.m***

Also used:  ***add\_lag.m*** and ***out\_finish\_data\_200830\_justChl.m***

Fit using all bottle data, first using w/in chlorophyll range 0.025 to 10mg/m3 but then reran to match the final decision to use 0.025 to 0.6mg/m3

Also, no alignment had been applied so data were calibrated as is with no alignment (lag) but then re calibrated after applying a 3 second lag and plucking out new CTD values from upcast.

Typically, the CTD fluro is close to a 1:1 relationship with the combined chlorophyll plus phaeophytin values, however that is not the case for this data set.

Range 0.025 to 0.6 with 3 second lag

121 out of 177 observations used, STD 0.014

Slope = 1.3324, Bias = -0.0174

Difference between fits (lag v. no lag) is -0.07 at 5volts, so about a 1% difference. Small difference. Will use the 0.025 to 0.6 fit with 3 second lag.