

CC16070S Underway Data Processing Notes

The Ocean Star does not have a met and tsg system. Some UW variables were extracted from the pH/pCO₂ System

The available variables from these files are:

SOG – ship speed over ground (knots)

TSG_Temp – water temperature (deg C).

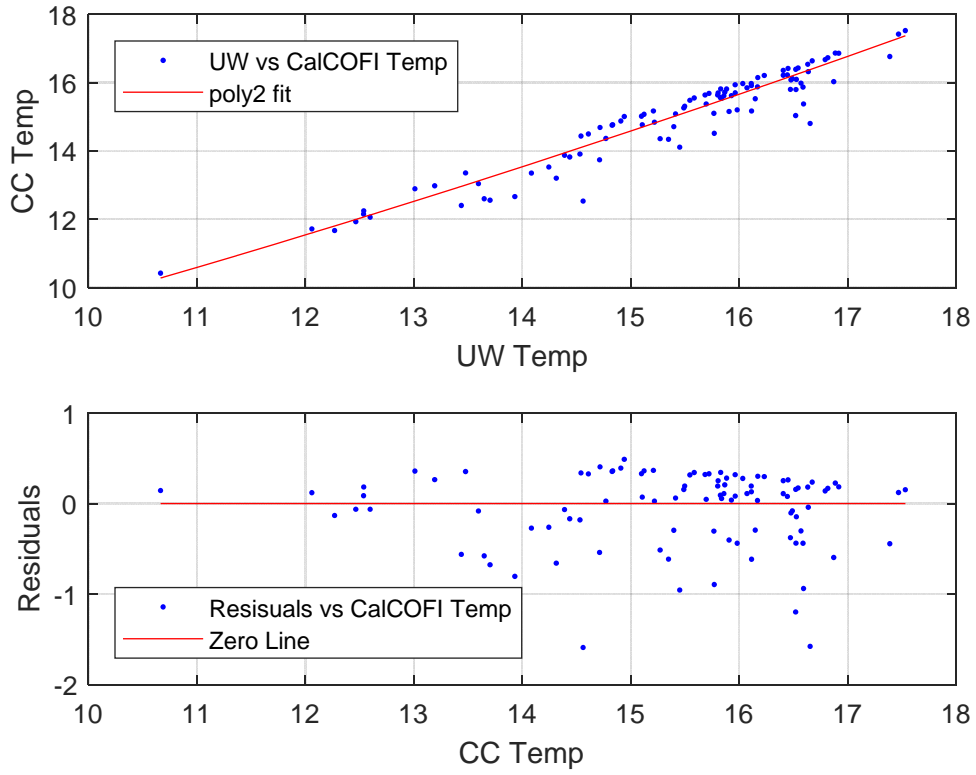
TSG_Sal – water salinity (PSU). ChlFluor – chlorophyll fluorescence (volt). The instrument must have malfunctioned. No meaningful correlation between ChlFluor and CalCOFI bottle Chl values was observed.

Derived variables are:

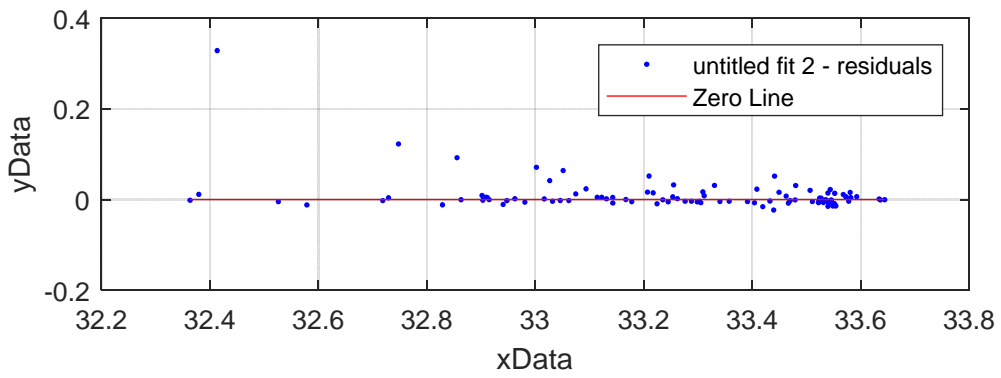
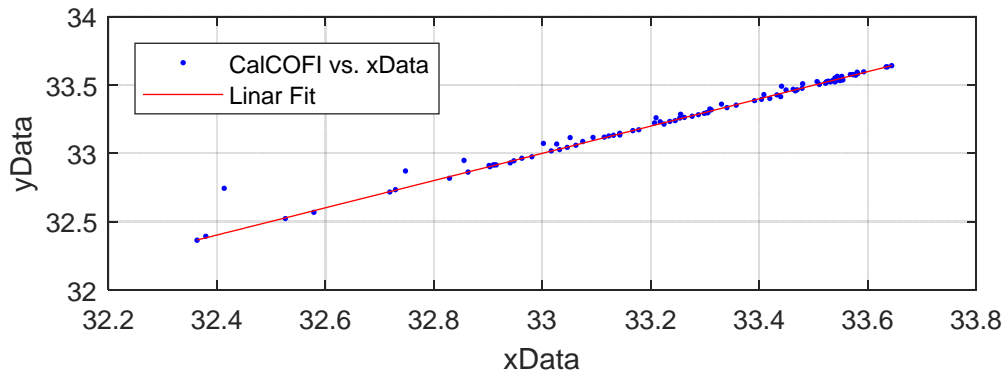
Pred_Temp – temperature derived from calibrations of TSG_Temp vs. CalCOFI 0 to 12 m bottle temperatures (deg C)

Pred_Sal – salinity derived from calibrations of TSG_Sal vs. CalCOFI 0 to 12 m bottle salinity (PSU)

TSG_Temp Calibration: Looks like there is a problem with the flow. About 50% of the samples have ok correspondence and the other 50% of the UW samples are too warm.



TSG_Sal Calibration: The calibration very good. Sample matching was successful.



ChlFluor Calibration: The calibration was not possible. The sensor malfunctioned.

