

CC1604SH Underway Data Processing Notes

No information on UW system flow was available.

The available variables from these files are:

COG – course over ground (deg)

SOG – ship speed over ground (knots)

WindSpeed – wind speed (m/sec)

WindDir – wind direction (deg)

AirTemp – air temperature (deg C)

AtmPres – atmospheric pressure (mb)

RelHum – relative humidity (% saturation)

TSG_Temp – water temperature measured by the TSG SBE 45 unit (deg C). No data are available for the first few days.

TSG_Sal – water salinity measured by the TSG SBE 45 unit (PSU). No data are available for the first few days.

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

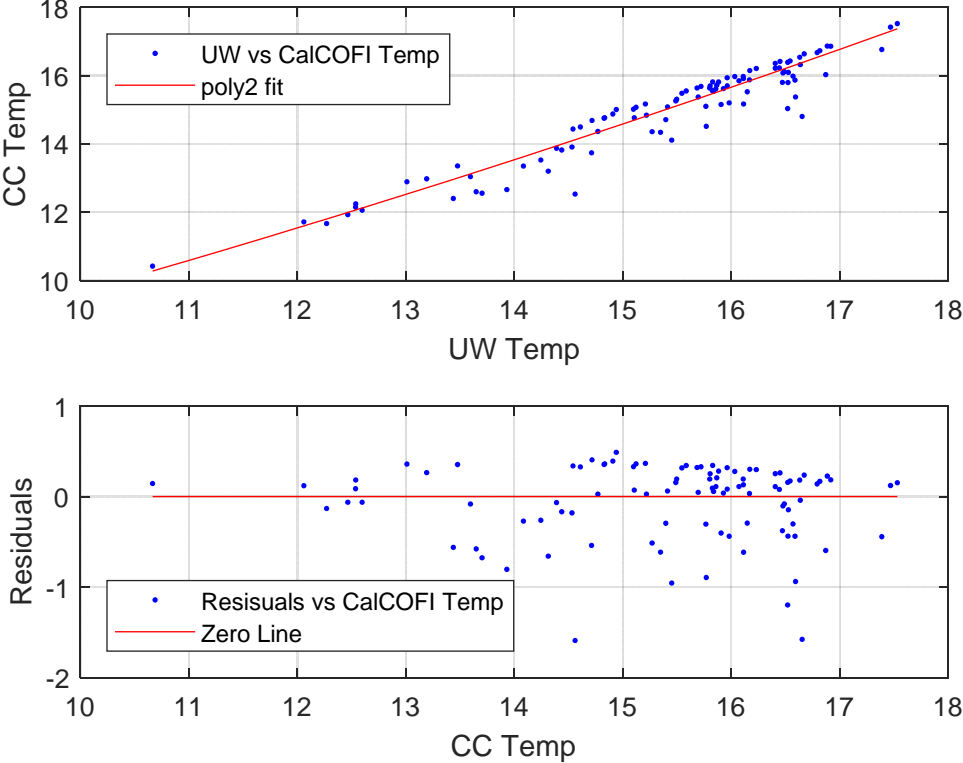
Derived variables are:

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

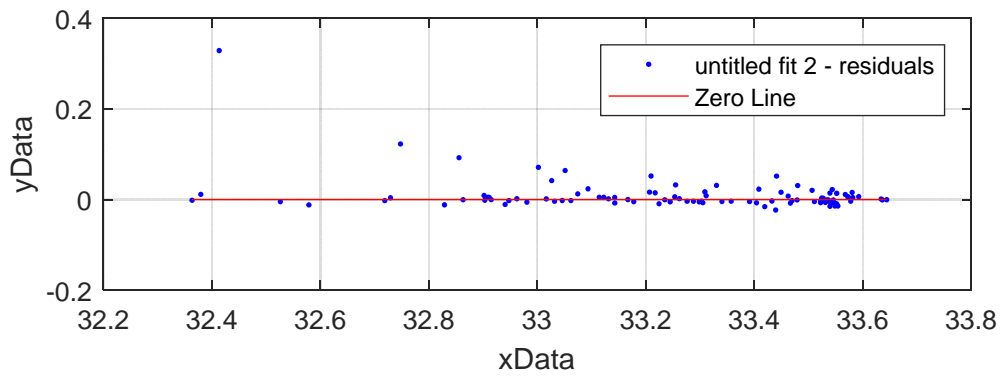
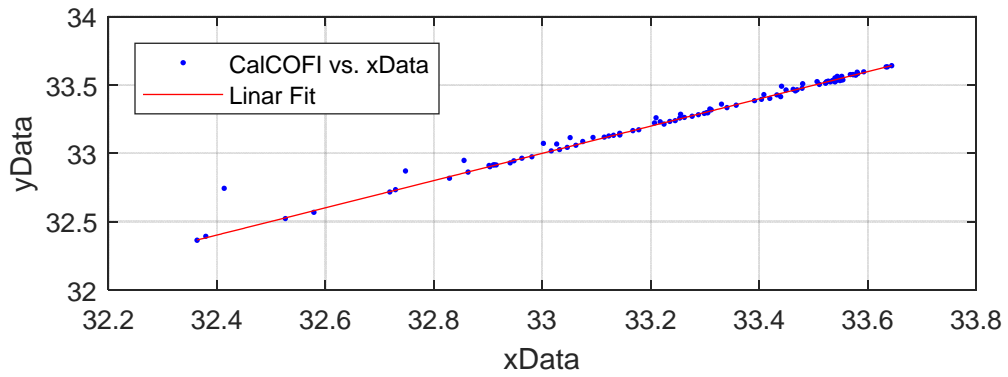
Pred_Sal – salinity derived from calibrations of TSG_Sal vs. CalCOFI 0 to 12 m bottle salinity (PSU)

Pred_ChI – chlorophyll derived from calibrations of ChlFluor vs. CalCOFI 0 to 12 m bottle Chl a (ug-Chl/L).
All values are set to NaN.

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.

