CC2204SH Underway Data Processing Notes

The raw UW data were extracted from the Shimada MOA Continuous.xlsx file and the UW and Fluorometer raw files.

The available variables from these files are:

COG – course over ground (deg)

SOG – ship speed over ground (knots)

USWFlow – flowrate of the UW system (units unknown)

LongWaveRad – **NO DATA FOR CC2204** Long Wave Radiation (W/M^2, Pyranometer)

ShortWaveRad – **NO DATA FOR CC2204** Short Wave Radiation (W/M^2, Pyranometer)

WindSpeed – wind speed (m/sec)

WindDir – wind direction (deg)

AirTemp – air temperature (deg C)

AtmPress – atmospheric pressure (mb)

RelHum – relative humidity (% saturation)

TSG_Temp – temperature measured by the TSG SBE 21 unit (deg C).

TSG_Cond – **NO DATA FOR CC2204** conductivity measured by the TSG SBE 21 unit (mS/cm).

TSG_Sal – water salinity measured by the TSG SBE 21 unit (PSU).
   FOR CC2204 Sal readings during the first few days were off.   Don't use.

TSG_Density – seawater density calculated Temp & Sal (kg/m^3)

SoundVel – **NO DATA FOR CC2204** sound velocity calculated by the TSG unit (m/sec)

TSG_Temp_2 – temperature measured by the TSG SBE 45 unit (deg C).

TSG_Cond_2 – **NO DATA FOR CC2204** conductivity measured by the TSG SBE 45 unit (mS/cm).

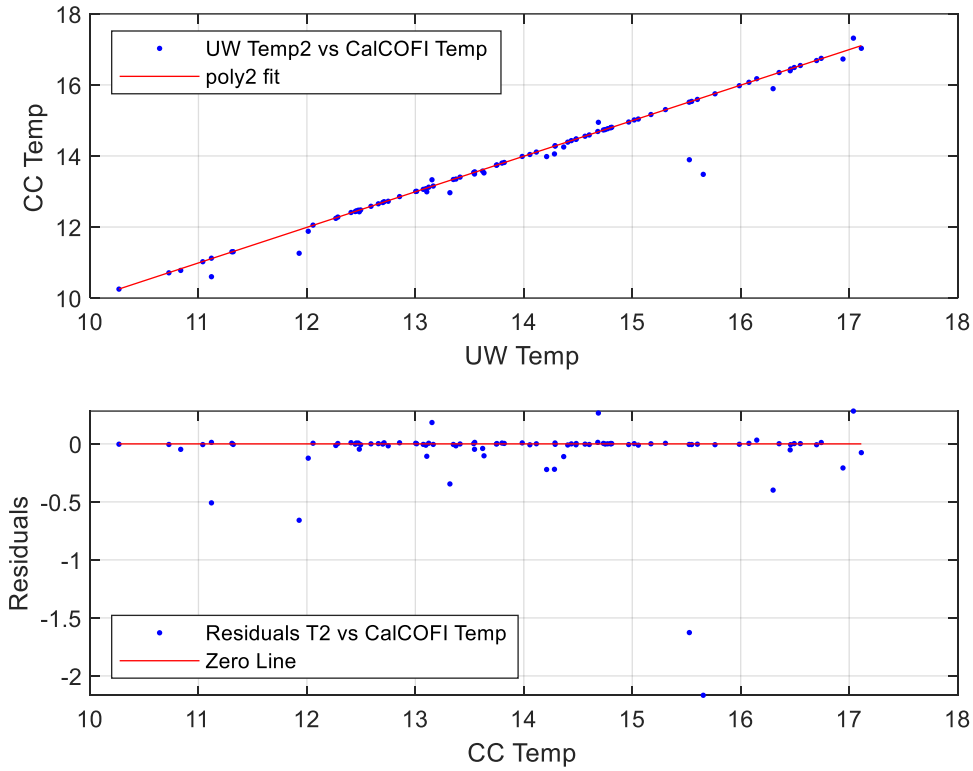TSG_Sal_2 – water salinity measured by the TSG SBE 45 unit (PSU).

TSG_Density_2 – seawater density calculated from Temp & Sal (kg/m^3)

SoundVel_2 – **NO DATA FOR CC2204** sound velocity calculated by the TSG unit (m/sec)
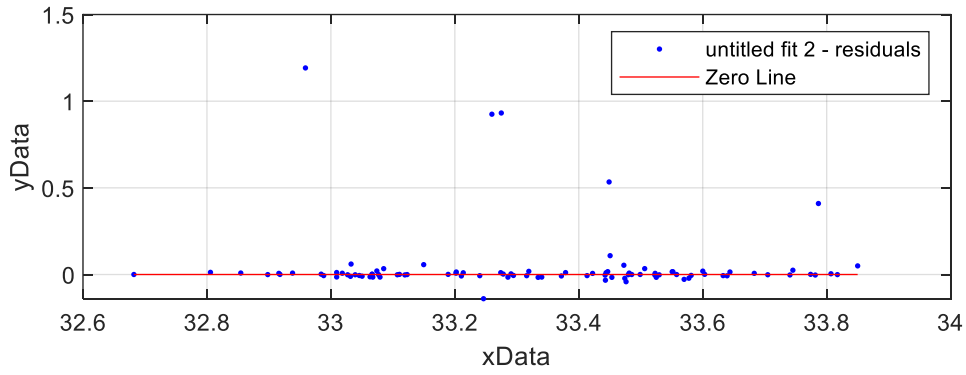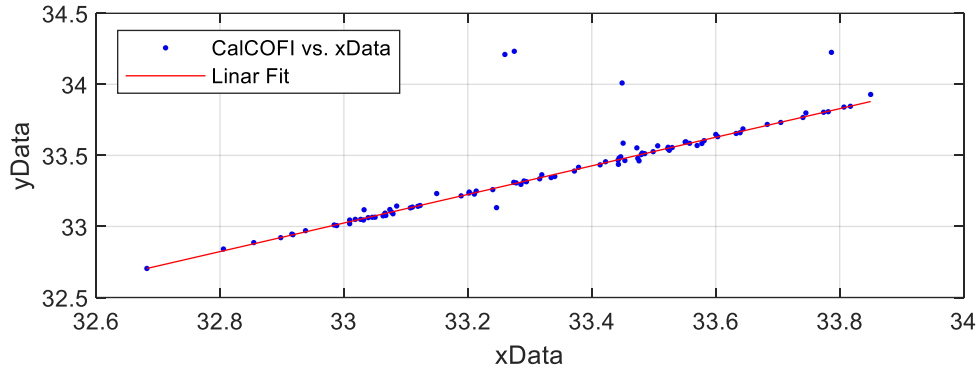
ChlFluor – chlorophyll fluorescence (volt).

Derived variables are:

Pred_Temp – temperature derived from calibrations of TSG_Temp_2 vs. CalCOFI 0 to 8 m bottle
temperatures (deg C)

Pred_Sal – salinity derived from calibrations of TSG_Sal_2 vs. CalCOFI 0 to 8 m bottle salinity (PSU)

Pred_Chl – chlorophyll derived from calibrations of ChlFluor vs. CalCOFI 0 to 8 m bottle Chl a (ug-Chl/L).