

CC1704SH 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 21 unit (deg C).

TSG_Sal – water salinity measured by the TSG SBE 21 unit (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)

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.

