CC1704SH Underway Data Processing Notes

The raw UW data are in the nine ‘MOA Continuous\_00?.elg’ files. 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\_Chl – chlorophyll derived from calibrations of ChlFluor vs. CalCOFI 0 to 12 m bottle Chl a (ug-Chl/L). All values are set to NaN.