

## UNH Underway Chlorophyll Readme file

Data were taken aboard the Ronald Brown by Joe Salisbury, Amanda Plagge and Jennifer St. Louis and processed by Joe Salisbury and Chris Hunt (all of UNH). All data are provisional and have received limited attention. UNH participation in the GOMEEDC Cruise was funded via UNH help funds and UNH NOAA (NA05NOS4731206) Joint Center for Ocean Observation Technology Award (B. Moore, PI). Use of data are encouraged, however kindly contact Joe Salisbury ([joe.salisbury@unh.edu](mailto:joe.salisbury@unh.edu)) prior to use for publications or presentations.

These data run from 2007-07-11 to 2007-07-30. Raw data are available for the dates 2007-07-31 to 2007-08-04. Contact [joe.salisbury@unh.edu](mailto:joe.salisbury@unh.edu) directly for the additional data, as they have not been filtered (see below).

Seawater was pumped into a black 80-liter tank in which the instruments were submerged. The exact depth of the seacock inlet is not known although thought to be ~3m. Data were taken at a rate of 1 Hz and the averaged to 1 minute values. The flow rates were checked 2x daily and ranged from ~4 – 7 liters m<sup>-1</sup>.

The data columns are:

1. date (mm/dd/yy hh:mm)
2. matlab datenum
3. lat (Garvin GPS: degrees, decimal degrees)
4. long (Garvin GPS: degrees, decimal degrees)
5. salinity (Aanderaa conductivity sensor (4319): psu)
6. sst (Aanderaa temperature sensor(4050): degrees C)
7. f- chl (Wetlabs “Ecopuck” stimulated fluorescence of chlorophyll (ex470/em685): mg m<sup>-3</sup>)
8. cdm (Wetlabs “Ecopuck” stimulated fluorescence of colored dissolved and detrital matter (ex370/em460): quinine sulfate units)
9. oxygen saturation (Aanderaa Optode (4330): % saturation)

The Wetlabs instrument was new and deployed with factory calibration settings. The “Optode” underwent a 4-point calibration prior to deployment using Winkler titrations. Salinity and temperature sensors were not calibrated for the cruise.

We filtered out data during times of known equipment malfunction and daily cleaning. Data were also filtered out during low flow (<4 liters m<sup>-1</sup>) and subjectively filtered during times of excessive bubbles. The value “NaN” represents filtered data.