

How to use the CTD data to plot a section:

To prepare the data for use in ODV do as you did for homework 1:

- a. Open each cast file in excel.
- b. Remove its header.
- c. Highlight data and using 'data->text to column' parse the data into columns.
- d. Insert columns where you will append: station number, lat, lon, station depth (optional).
- e. The data you got look something like:

0.500 12.1863 19.1080 14.2522 3.7960 0.2622 0.3380 10 0.0000e+00

These fields are:

Depth [m], temperature [C], Salinity [PSU], Sigma-t (which is density-1000) [ $\text{Kg m}^{-3}$ ], Voltage 0 (turbidity), Voltage 1 (fluorescence by Chlorophyll), Voltage 2 (fluorescence by colored dissolved organic material), an integer (denoting the number of sampled averaged for this bin, and 0.000000e+00 (a flag).

- f. delete the last two columns of data (sample number and flag) as you will not use them.
- g. Ask Virginia for formula to convert Voltage 1 to chlorophyll in units of  $\text{mg m}^{-3}$ .
- h. Blank correct the turbidity voltage by removing 0.082 from Voltage 0.
- i. Blank correct the F\_CDOM voltage by removing 0.033 from Voltage 2.