readme_getWOCEbottles.pdf for the getWOCEbottles zip file.

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Purpose: to allow easy access to a significant portion of the WOCE bottle data by extracting selected stations from an archive. These scripts take a geographic rather than a temporal (historical) perspective on the data and are intended more for helping students gain easy access to a subset of WOCE data, rather than for mainline research, which is likely to require the entire bottle data set (not easily done here).

get_WOCEbottles.m is the main script. It first asks which ocean (Atlantic, Pacific or Indian) and then displays a map with the available stations. Select the desired station by clicking with a mouse. The data is stored in structure, A, and plotted for QC purposes. If you want to use A later, then you will need to save A before shutting down Matlab, e.g., 'save Atlanticdata.mat A' would save the single structure called A, into a mat file called Atlanticdata.mat. The presumption is that analysis will be done on the data saved in A within a separate script that will read in this .mat file. To read this structure into a script, just enter 'load Atlanticdata.mat'.

Load_new_csv.m is used to add new sections to the collection, stored ocean by ocean in .mat files called Abottle.mat, Pbottle.mat, etc. The raw data are taken from the ucsd/whp archive web page in the form of .csv files. These are read in by a script called load_XBTL4.m that does it's best to sort out data that does not meet the nominal format (there is plenty of nonstandard or corrupted data in the .csv files). If you are happy with the data subset provided here, then you will not need these last two scripts.