Instructions for Read SOCATy2019 v2023.m

This is the routine to get the SOCAT v2019 to v2023 data into Matlab. The data files are the "SOCAT V2019-V2023" global and regional zip (or tsv) files, which can be downloaded from the SOCAT Data Download page on www.socat.info. It can also read the individual cruise files from Pangaea (http://doi.pangaea.de) as well as the ascii or csv files downloaded from the cruise viewer on the SOCAT website. Several files can be selected, all with the same extension. Please report bugs to denis.pierrot@noaa.gov

Instructions:

Possible User Input:

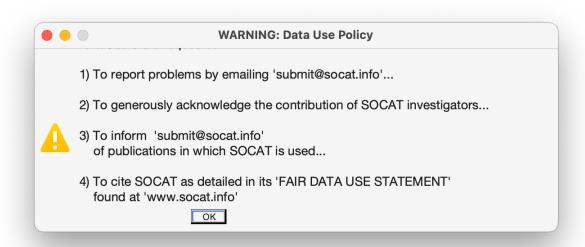
readlines = number of lines read to find the data header 10,000 seems to work well.

dflt or

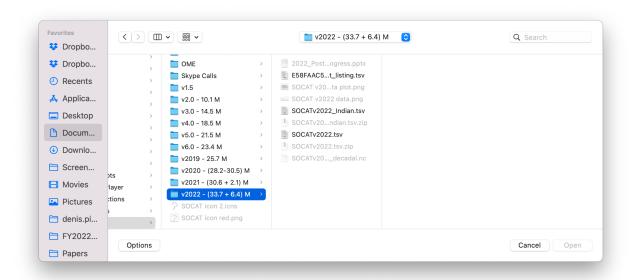
dflt_info = set of column numbers that will show up as selected when interface is created. They can be deselected at will on the interface.

Variables can be found in the code around line 100

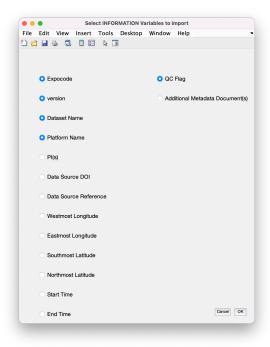
①Start the program, then read the warning.

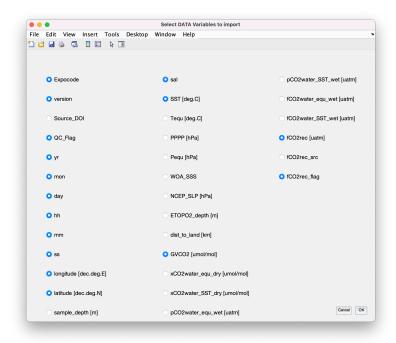


②select the file you want to import. The following extensions are allowed: (.txt _.tab.tsv _.tsv _.csv _.rtf)



③ Select the variables you want to import individually on the interface...click OK. [clicking CANCEL will stop the program]





- ①On the next interface, the data will be plotted in 3D. (If the dataset is big, this might take a while).
- If the variables selected allow, the user will have the possibility to select geographical limits, as well as cruise or data flags to import.
- Enter the geographical limits of the data you want to import, and select which cruise or data flags to import
- Each time a selection is modified, the data selected will be re-plotted and the number of points selected will be displayed at the bottom left of the interface
- The user can reduce the number of points to plot to speed the program.
- To skip plotting altogether, de-select the "Graph" check box.

