

## ecoSUB\_process

Script to process and plot science and engineering data from ecoSUB instruments.

Requires:

- gsw toolbox <http://www.teos-10.org/software.htm>
- cmocean <https://uk.mathworks.com/matlabcentral/fileexchange/57773-cmocean-perceptually-uniform-colormaps>
- m\_map <https://www.eoas.ubc.ca/~rich/map.html>

*Lewis Drysdale, 2021, [lewis.drysdale@sams.ac.uk](mailto:lewis.drysdale@sams.ac.uk)*

Set filepaths and strings for incoming and outgoing data

1. Set paths to data and figure folder
2. Change testdate variable to reflect the folder in /logs
3. Check the IMEI number to match the vehicle used
4. Choose quality control parameters to apply to the data

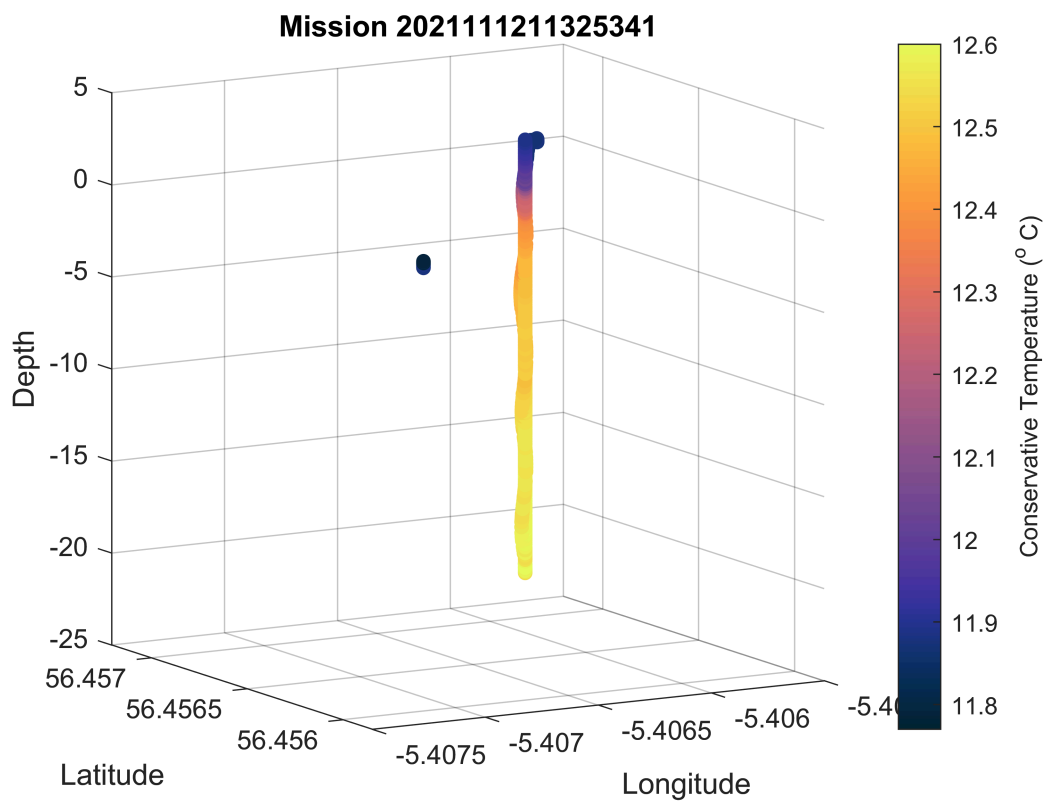
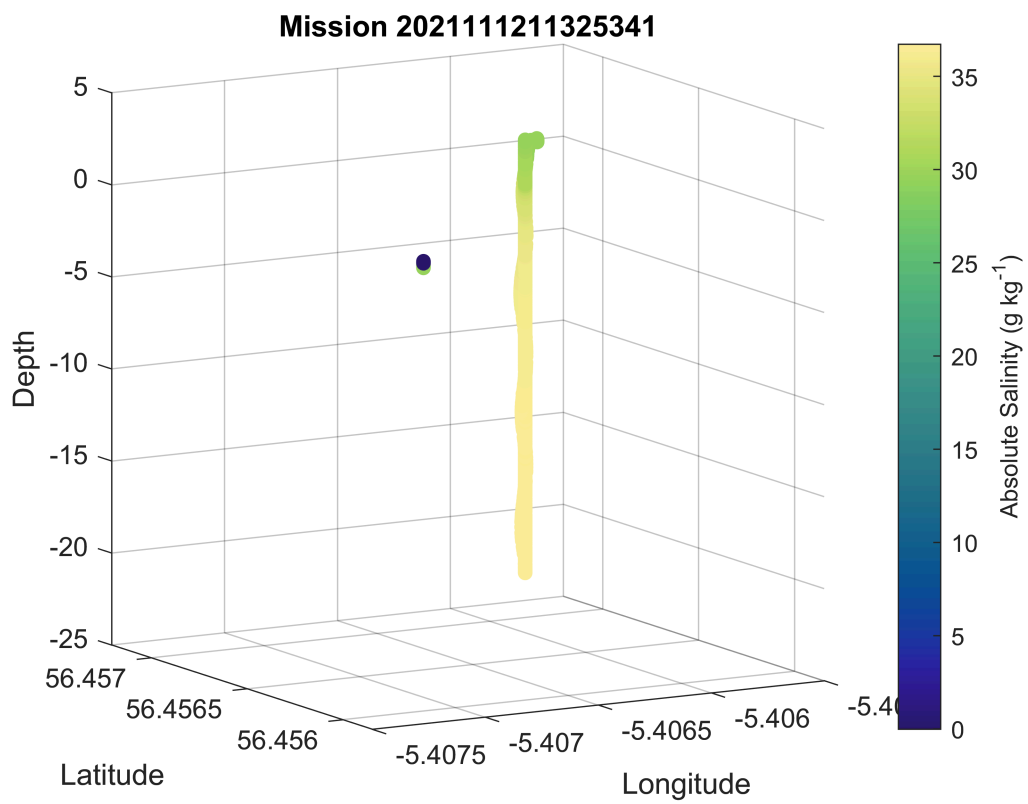
```
inst =  
'milli'
```

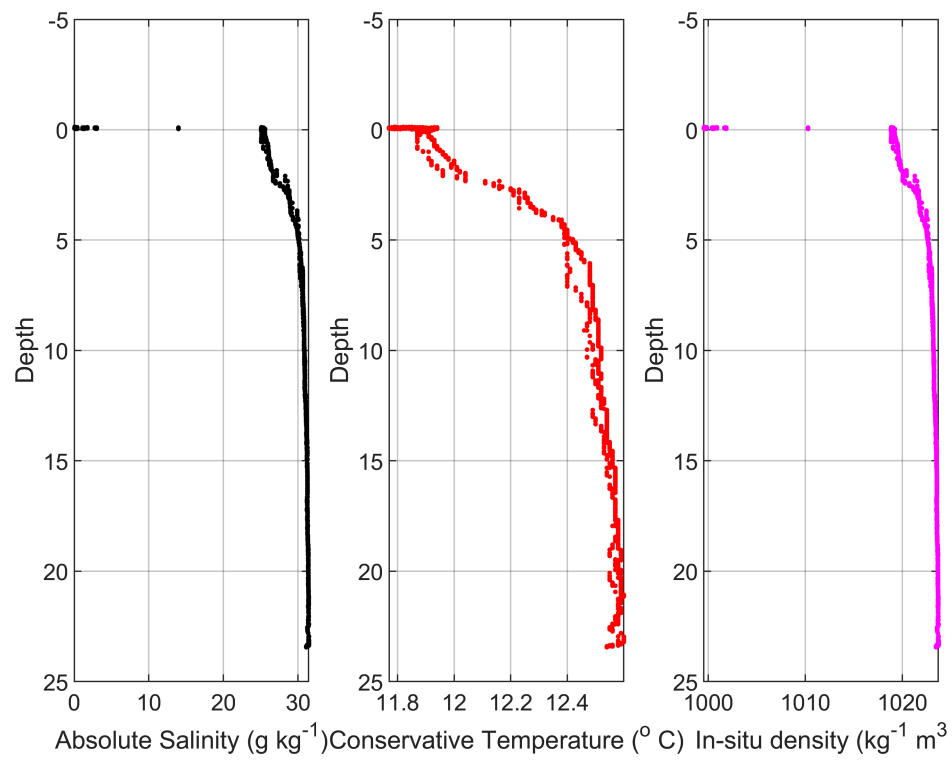
Warning: Column headers from the file were modified to make them valid MATLAB identifiers before creating variable names for the table. The original column headers are saved in the VariableDescriptions property. Set 'PreserveVariableNames' to true to use the original column headers as table variable names.

Extract data, apply QA to science data, and conversion to TEOS-10

Plot science data

will only plot realistic (in-water) values of salinity and temperature





Plot vehicle engineering units

