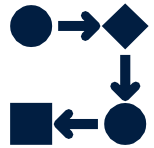
FUGRO

1. Introduction

2. splsensors

3. mergexlsx-spl



3. renamesensors-spl

Tools for Line Name Verification

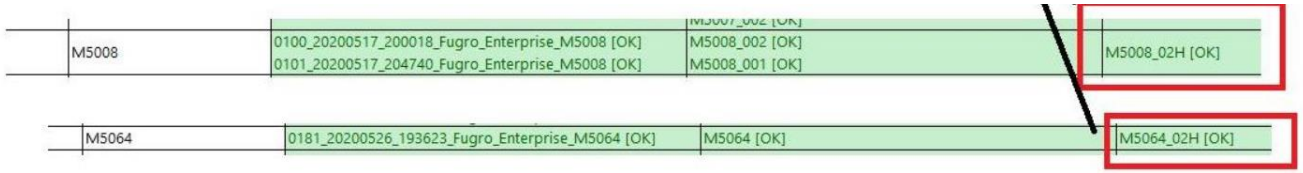
Introduction

To facilitate and speed up the work of listing and finding wrong line name, missing SPL session, gaps in SPL session etc, several tools was created using python3.8 coding. Here are the three tools:

- **splsensors**: main tool that need to be run before the other tools.
- **mergexlsx-spl**: This tool will merge the Final vessel spreadsheet generated by splsensors in one unique spreadsheet.
- **renamesensors-spl**: This tool will rename the sensors files using the Final QC spreadsheet generated by the mergexlsx-spl tool.

TODO:

- A small bug to be resolved: the tool will not find the wrong name when the sensors data have a _01 or _02 but not in the SPL line name.



splsensors

mergexlsx-spl

renamesensors-spl

Home

splsensors

splsensors

Home

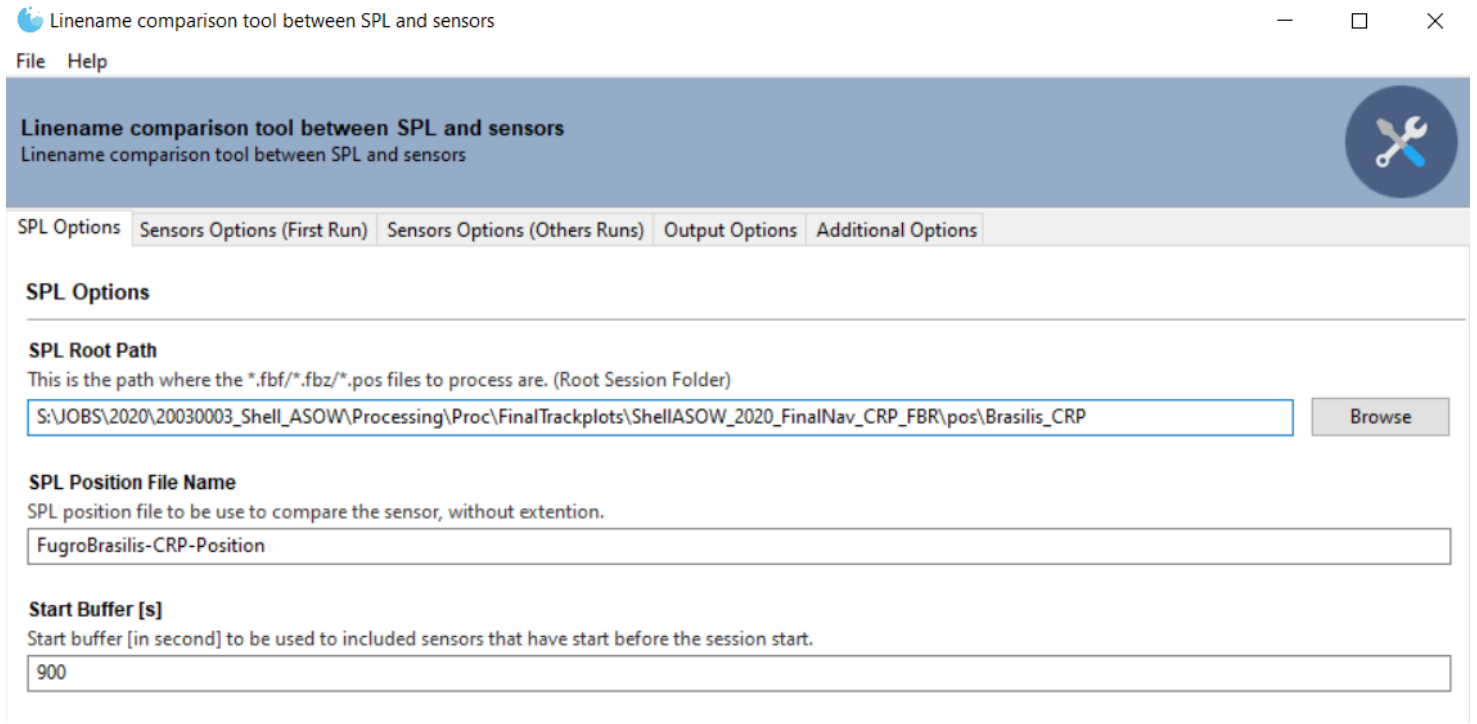
This tool will read the SPL Starfix files (.fbf, .fbz, .pos) and the sensors data (.all, .xtf, .sgy, .csv[mag]) and create a spreadsheet that can be used for:

- finding where the naming convention was not done properly;
- finding missing SPL session;
- finding gaps in the SPL;
- finding sensors that start much before the SPL session;
- finding wrong datetime in the .sgy files.

The tool will create csv file with the list and datetime of the sensors that was read in the first run. For the next runs these csv files can be used to speed up the process if you have new SPL session to check the sensors with or just new sensor data for just on type of data.

Note: All sensors take few millisecond to be read but the .sgy format take must longer from 2 to 10 second, depending of the size.

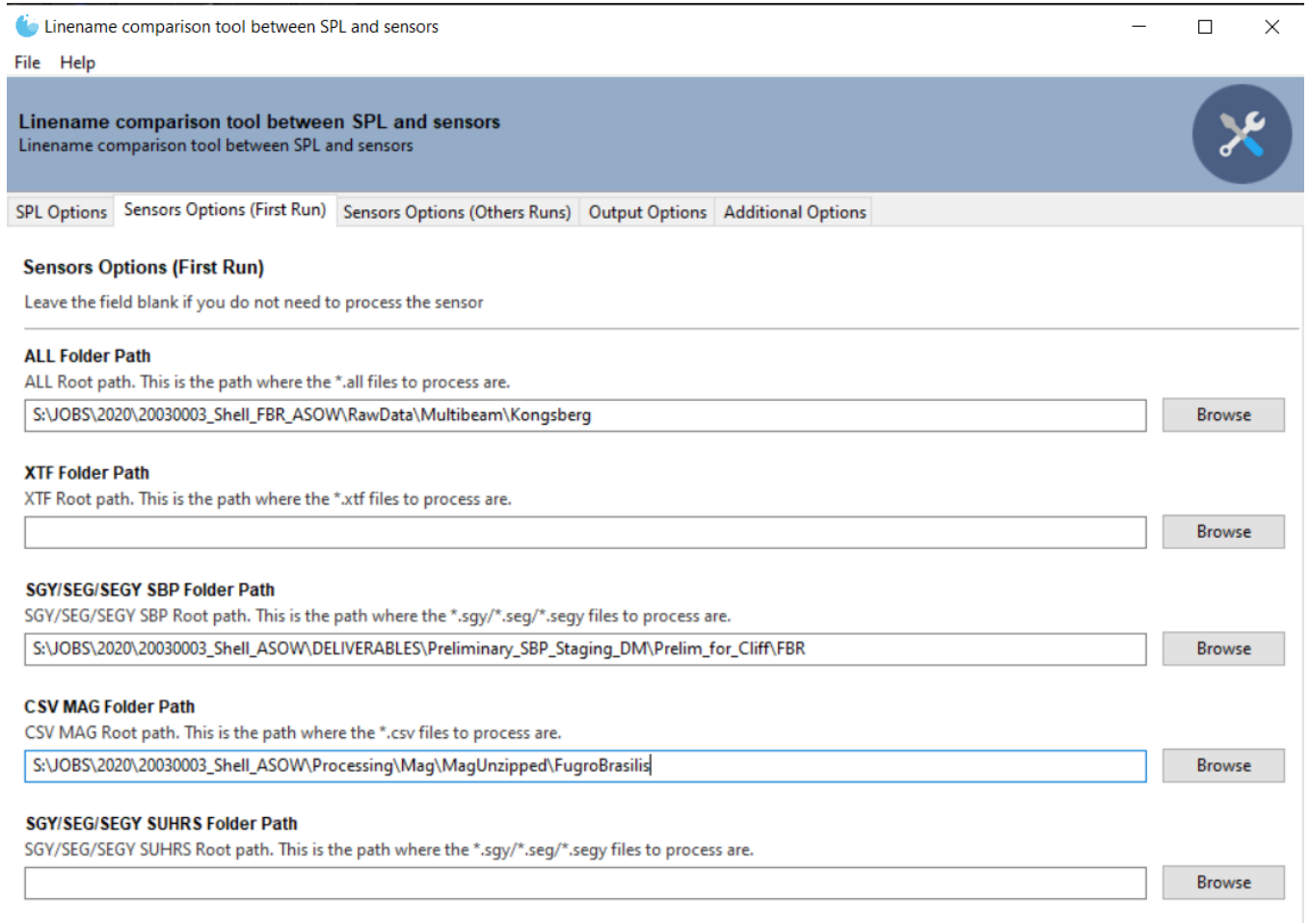
splsensors



This first windows will defined the path of the SPL data, the SPL file name that will be use to do the comparison (e.g.: FugroBrasilis-CRP-Position) and the buffer time that will be use to find the sensors that start before the SPL (e.g.: 900 = 15 mins)

Home

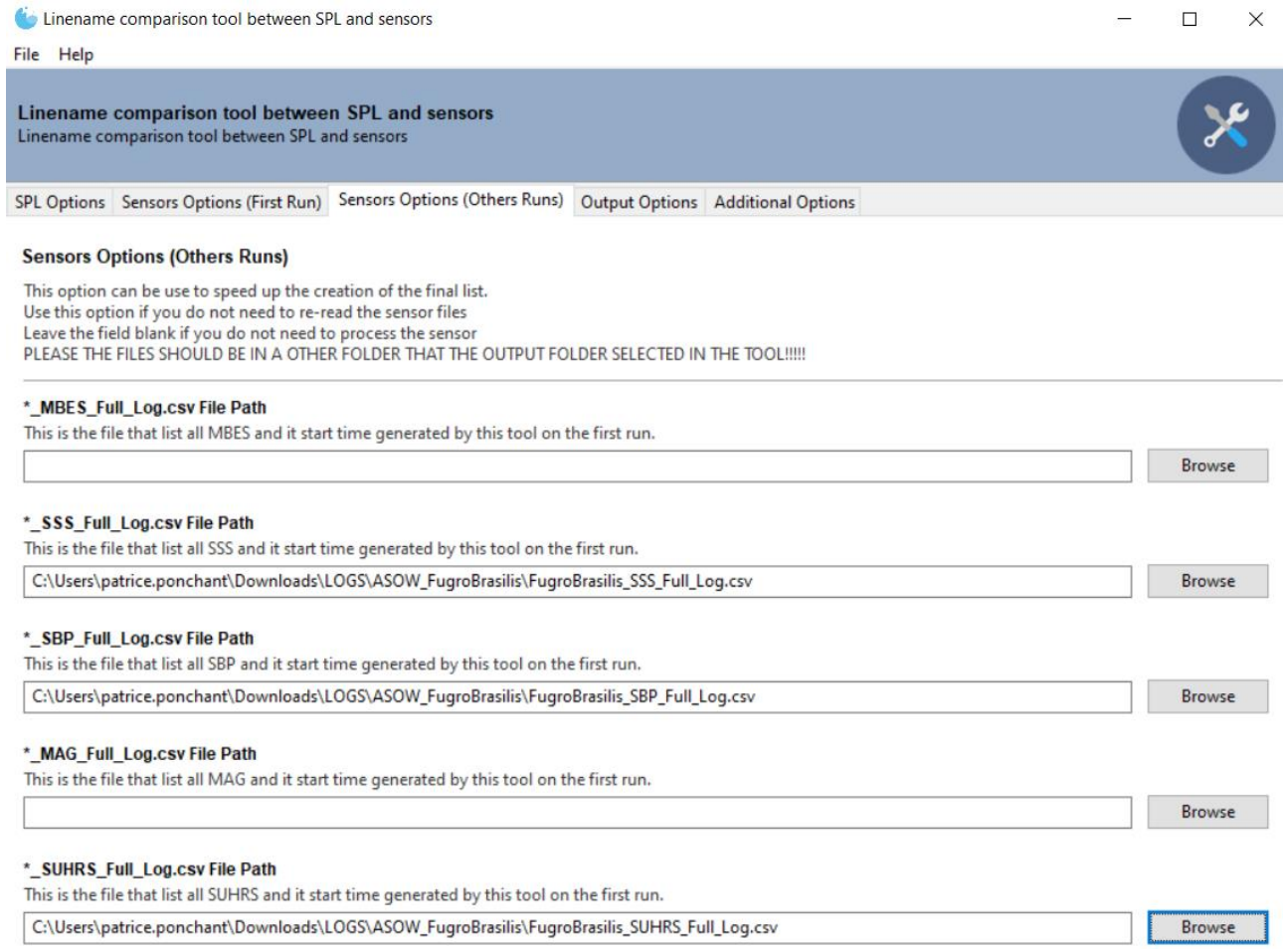
splsensors



Path of all sensors that need to be included to the process. Fill free to leave blank if you do not need or have the sensors type.

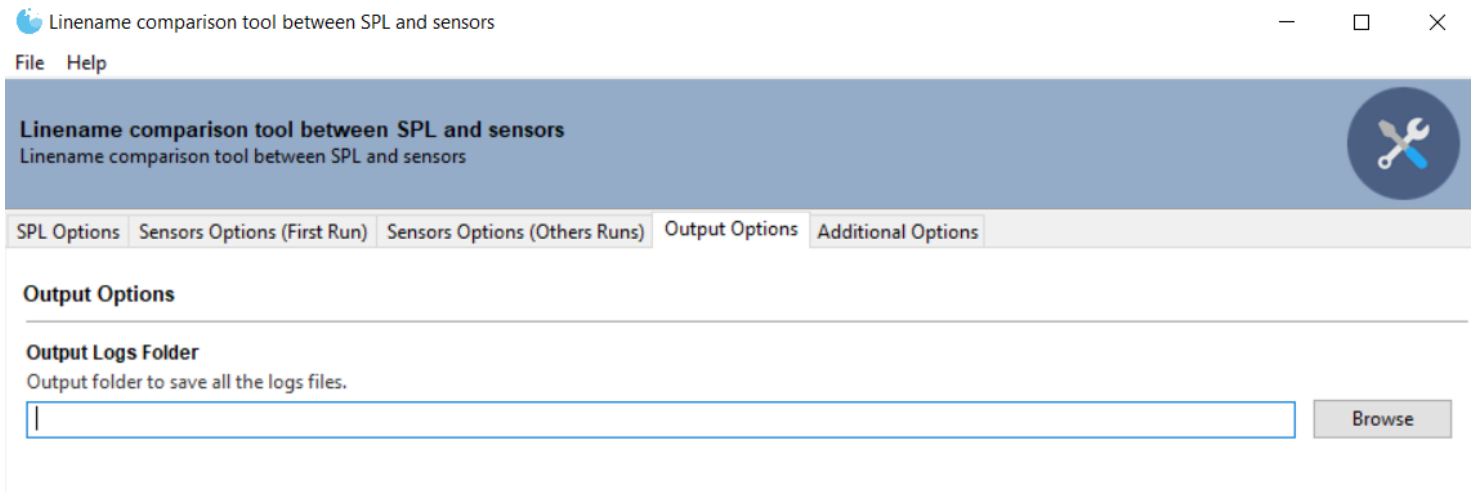
Home

splsensors



Path of all logs that was generated by the first run. Fill free to leave blank if you do not need or have the sensors log type. This is very useful to speed up the process, especially with .sgy data.

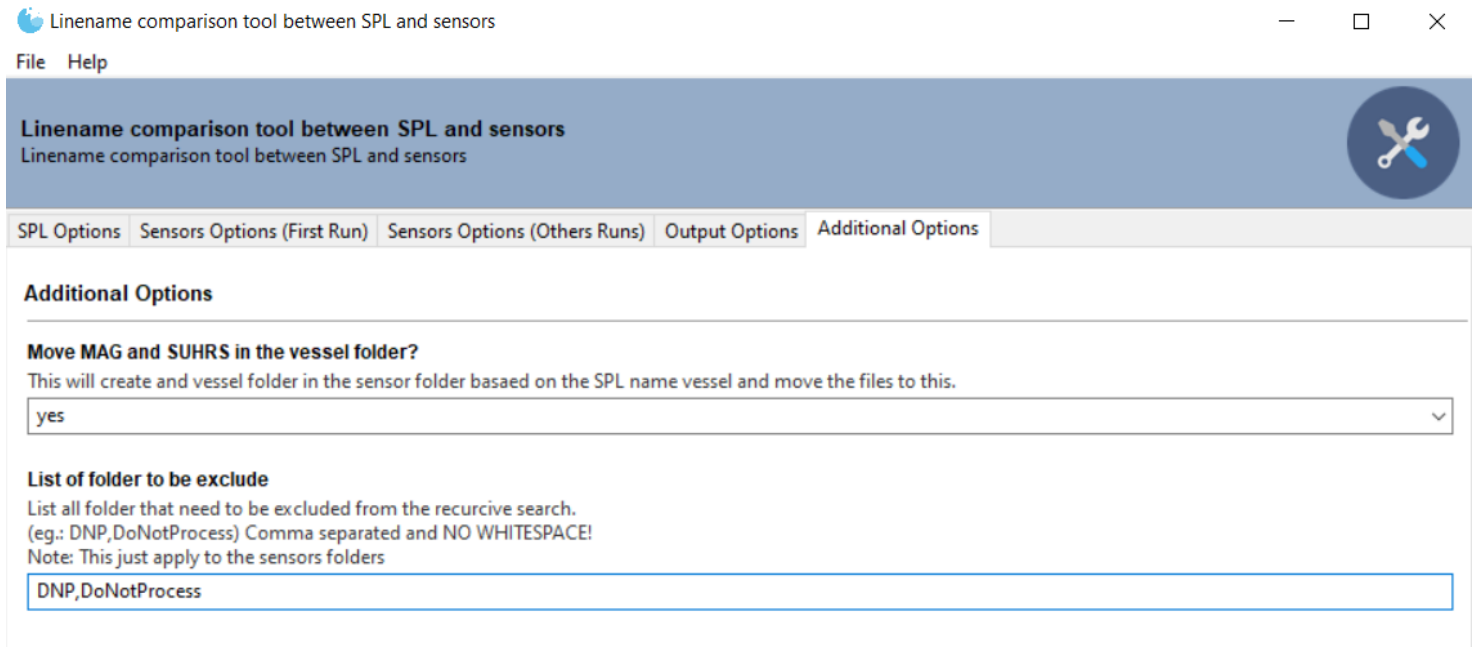
splsensors



Output folder for the logs and spreadsheet to be saved. If you are using the option “Sensors Options (Other Runs)”, please select a other folder that the first logs are. Note: The tool have a safeguard and the tool will stop if you use the same folder.

Home

splsensors



- The option “Move MAG and SUHRS….” is useful when you have the sensors for several vessels in the same folder. You can not run the tool for several vessels at the time, because the sensors from other vessels can match the time from the SPL of the processing vessel. This will help to organised.
  Tips: run this alone before running for all other sensors.
- The option exclude folders, will exclude all the listed folders to be process.

Home

splsensors

Home

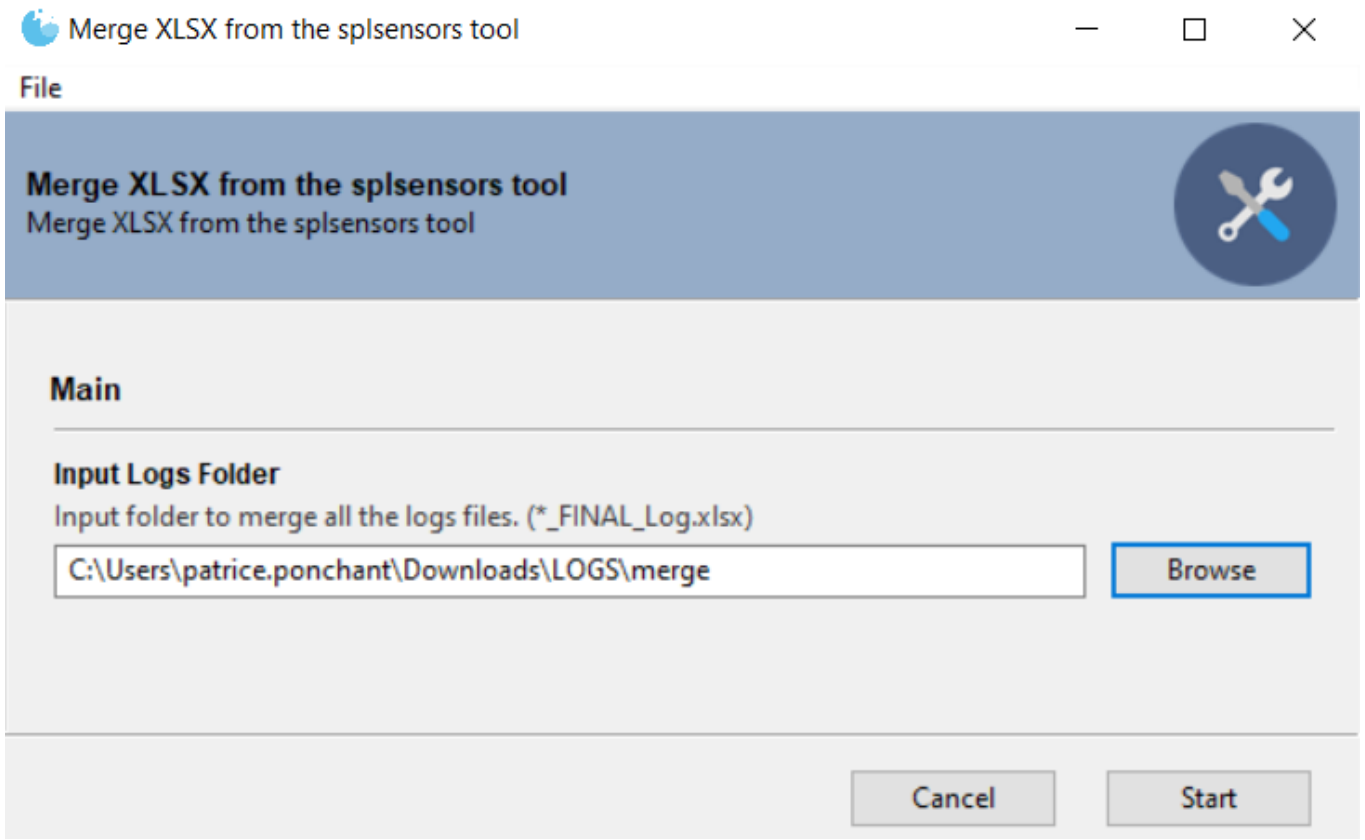
mergexlsx-spl

The final spreadsheet contain the following sheet to QC the data:

- **Summary_Process_Log**: Summary log of the processing
- **Full_List**: Full log list of all sensors without duplicated and skip files. (Sensors Not Transposed)
- **List_Transposed**: Log list of all sensors transposed and matching all sessions)
- **Missing_SPL**: List of all sensors that have missing SPL file.
- **MBES_NotMatching**: MBES log list of all files that do not match the SPL name; without duplicated and skip files
- **SSS_NotMatching**: SSS log list of all files that do not match the SPL name; without duplicated and skip files
- **SBP_NotMatching**: SBP log list of all files that do not match the SPL name; without duplicated and skip files
- **MAG_NotMatching**: MAG log list of all files that do not match the SPL name; without duplicated and skip files
- **SUHRS_NotMatching**: SUHRS log list of all files that do not match the SPL name; without duplicated and skip files
- **Duplicated_SPL_Name**: List of all duplicated SPL name
- **Duplicated_Sensor_Data**: List of all duplicated sensors files; Based on the start time
- **SPL_Problem**: List of all SPL session without a line name in the columns LineName, are empty or too small
- **Skip_SSS_Files**: List of all SSS data that have a file size less than 1 MB
- **Wrong_SBP_Time**: List of all SBP data that have a wrong timestamp

mergexlsx-spl

This tool will merge the vessel final spreadsheet that was created by the splsensors tool. Just select the folder that have the xlsx that need to be merge and the tool will create a new merge spreadsheet named “sheets_combined.xlsx”



Home
renamesensors-spl

renamesensors-spl

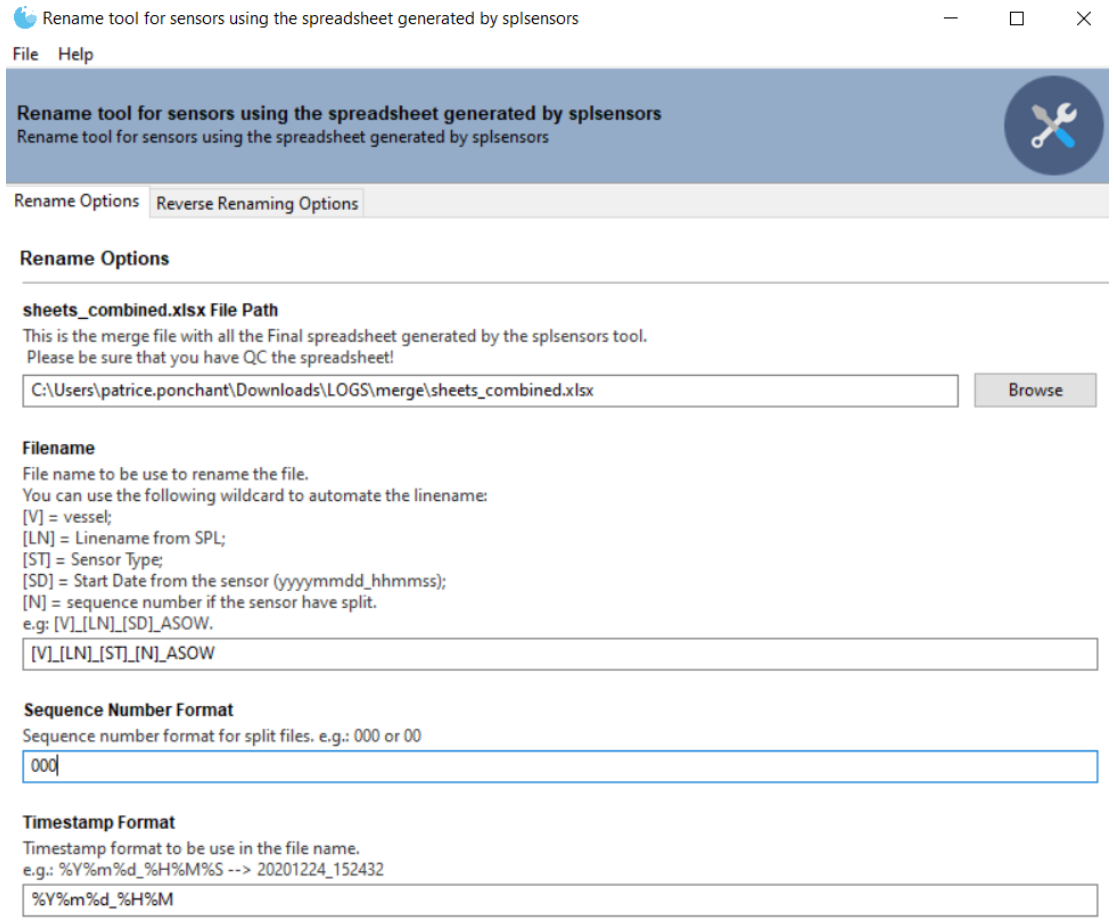
- This tool will rename the sensors files based on the *Full_List* sheet in the final spreadsheet created by the splsensors tool. Before using it, please QC all the data in this sheet, remove if necessary the data that not need to be renamed and then use the tool.

- The tool will use the columns in the sheet to automatically rename the file. [Sensor Start, Vessel Name, Sensor Type, SPL LineName]

- The tool have a option to rename back the sensors name using the log that the tool have created.

Home

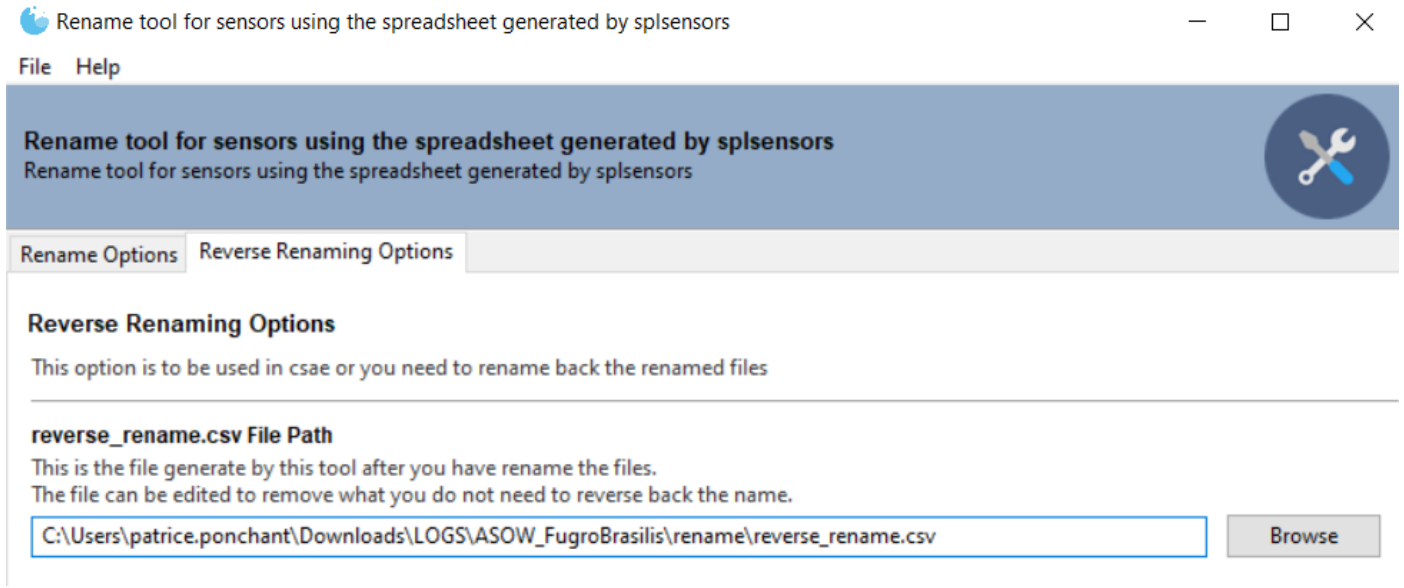
renamesensors-spl



Put the needed information in this windows to rename the sensors files.

Home

renamesensors-spl



This option can be use if the sensors files need to be renamed back.

Note: During the rename process, the tool create o csv file named "reverse_rename.csv" in the same folder that the final spreadsheet use to rename the files. Use this csv to rename back the files.

Home