**Read Me for Python Script to produce “Points Output look-alike CSVs”**

1. Unzip these files in a suitable location. Use the “Create Profiles” tool in TUFLOW MATLAB utilities to generate “\_PROFILES.nc” files for the netcdfs at different locations.
2. Paste these “\_PROFILES.nc” files within the same folder as the Python script.
3. Make changes to NamePTIndex\_v2.csv in the folder to make sure they reflect the new location names and the corresponding PT#.
4. Make changes to Variables.csv in the folder to make sure they include all the variables you want to extract from the “\_PROFILES.nc”
5. Open Jupyter Notebook.
6. Navigate to the Python script within Jupyter Notebook and open it.
7. Make sure the different string fields in the Python script are pointing to NamePTIndex\_v2.csv and Variables.csv (or whatever you’ve named them now) correctly.
8. The Python script needs an example “PROFILES.nc” file to read all the variable names. So in one of the string fields, point it to one of your newly created “\_PROFILES.nc”.
9. The script is designed to process all file names with an extension “.nc” within the folder. So make sure you’re operating only with the “\_PROFILES.nc” files within this folder. You can process multiple files at once.
10. At the end of the script, you should have one “\_PROFILES.csv” for each “\_PROFILES.nc”. These CSV would look exactly like how a TUFLOW FV POINTS output would traditionally print.