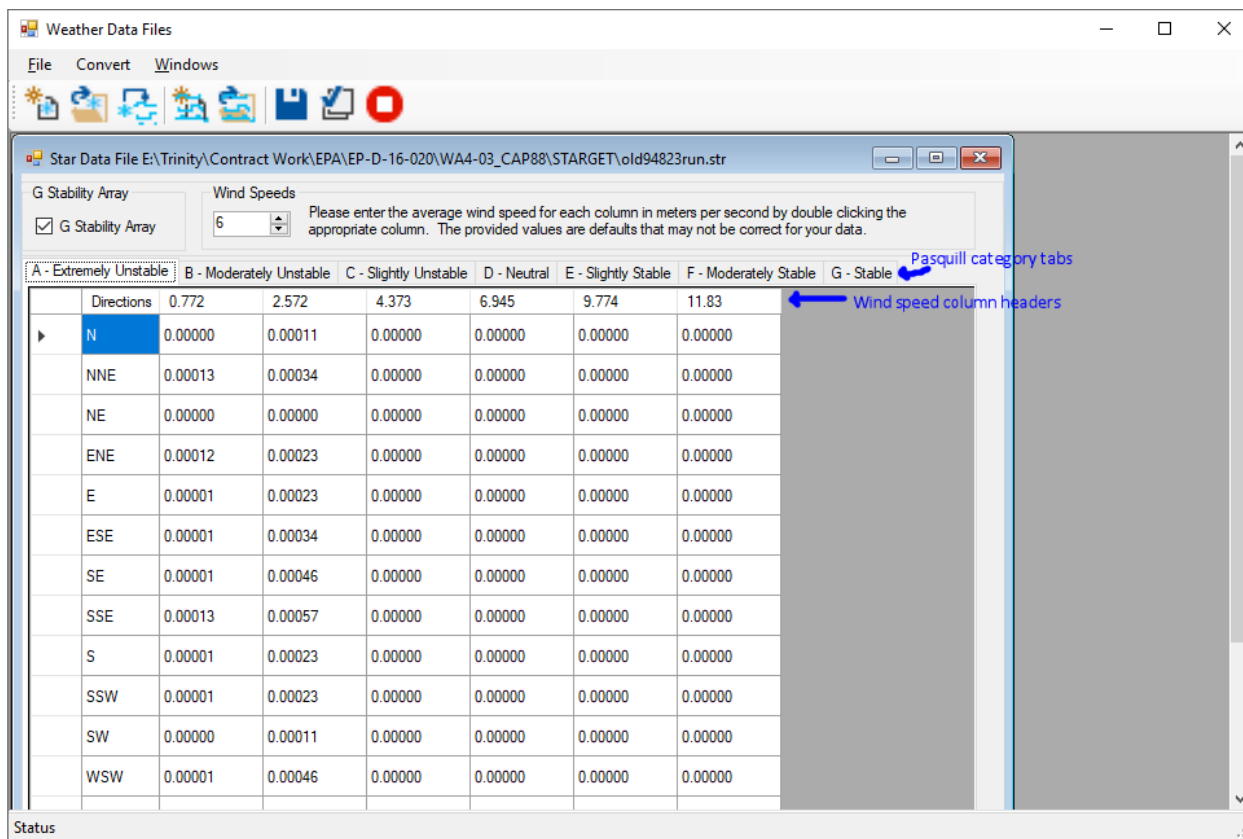


STARGET File Converter Basic Instructions (Beta 0.7.7.1 version)

STARGET converts STAR format files (usually with .str file extension) to CAP88-PC WIND format files (usually with .wnd file extension). STAR format files should have columns containing wind direction, Pasquill category (A-F with optional G category), and fractional frequency of time the wind is from that given direction in that Pasquill category within the specified wind speed range. The wind speed range columns have editable column headers (double click to edit the column header). These column headers define the midpoint of the wind speed range (in meters per second). The default values at the top of the wind speed columns are the values corresponding to the wind speed ranges contained in the original STAR format files that came with older versions of CAP88. These may not be appropriate for your STAR format file.



NOTE: It is important that the wind speed column headers properly reflect the average wind speed for the range represented by the column (e.g. for a range of 2 to 6 meters per second the column header is 4).

Installation:

Double Click StarGetInstaller.exe, follow instructions to install. The installer will create a STARGET entry on the Windows start menu.

Use:

Start STARGET; this typically requires accessing the entry on the Windows start menu.

You can create a new file or, in most situations you will be opening an existing STAR format file. An example STAR format file is included with the installation package (old94823run.str).

Once the STAR format file is opened, TARGET reads the data and presents it as shown in the above image. Each Pasquill category in the STAR file is represented by its own tab (click each tab to view the data within that category). The data displayed on the grid within each tab is the fractional frequency of time the wind is FROM the indicated direction within the speed range defined by the column. The value at the top of the column header is the average wind speed (meters/second) for the wind speed range defined by the column.

If the G Stability Array box is checked then the program will include a tab for the G category. If no data for the G category is included in the STAR file, the program will populate the G tab with zero values.

Most historic STAR files have six wind speed categories. The default values within each wind speed column header are the values for the six historic wind speed categories. If you are not converting one the historic STAR files, then you may have more or fewer wind speed columns, and you will need to manually enter the wind speed column headers. Calculate the average wind speed for the range defined by the column and enter it in the header by double-clicking on the column header. The unit for wind speed is meters per second.

Before converting a STAR file to the CAP88-PC wind file format, the STAR file must be validated. Click the 'check' icon (second from right on the tool bar below the menu bar). Validation checks that the total of the wind speed frequency data over all categories and directions equals 1 (allowing for some round-off differences).

Once the file is validated, the STAR file can be converted to the wind file format. Conversion is done by clicking the Convert icon on the tool bar or by selecting 'Convert' on the menu bar and clicking 'Convert Star to Wind'. A new sub-window pops up showing the various elements of the newly created wind file. The converted file is NOT automatically saved. You must save the new wind file using the 'Save icon on the toolbar (looks like a 3.5 inch floppy disk) or by selecting 'File' on the menu bar and clicking 'Save' or 'Save As'.