Formatting Met data (TAB) files

By Liz Walls, 10/15/2015

The wind speed and wind direction distributions for each meteorological (met) site is entered into Continuum as TAB files. This file format is used in several other wind engineering software programs and can be exported from wind analysis software, such as Windographer, or created in a text file editor.

The format of the TAB file is identical to that used in other wind flow modeling programs such as WaSP.

The screenshot below shows an example of a met TAB file. The list below explains the organization of TAB files:

Row 1: Name of Met site

Row 2: UTM coordinates, X and Y (in metres), height of wind speed or Latitude, Longitude, height of wind speed

Row 3: Number of wind direction sectors, Wind Speed interval (m/s), Wind direction offset
- Continuum will accept either 12, 16 or 24 sectors.
- Wind direction offset must be 0

Row 4: Wind Rose (Frequency, %, in each wind direction sector)
- Wind rose must sum up to 100

Row 5 – N : Wind speed distribution in each wind direction sector
- <u>First column is upper limit of wind speed bin (in m/s) and NOT the midpoint of bin</u>.
- For each wind direction sector, the distribution must sum up to 1000

TextPad - C:\Users\Liz\Desktop\Example TAB.TAB

File   Edit   Search   View   Tools   Macros   Configure   Window   Help

Find incrementally   ☐ Match case

Example TAB.TAB ✕

```
Met1
275710 8102778 80
16 1 0
7.2     5.26    4.31    4.21    4.25    4.48    6.36    11.21   7.44    5.05    4.2     3.83    5.22    7.65    9.83    9.48
0.5     0       0       0       0       0       0       0       0       0       0       0       0       0       0       0
1.5     6.7     40.64   31.75   16.21   13.62   12.96   13.55   11.01   15.47   17.35   16.21   25.19   14.6    13.75   10.59   20.05
2.5     32.2    40.64   40.8    32.4    40.83   36.65   18.05   18.63   33.49   38.57   39.4    25.19   23.72   18.75   21.17   17.05
3.5     56.37   72.08   63.44   67.1    43.14   47.47   25.6    11.86   25.77   50.16   53.29   57.91   36.5    38.7    37.53   31.1
4.5     76.5    79.43   92.95   90.32   61.26   69.02   52.69   37.27   39.93   61.7    76.44   93.14   69.34   47.46   43.3    35.1
5.5     79.17   90.54   108.8   99.6    93.1    62.55   64.71   55.91   52.82   79.06   85.72   78      89.42   62.45   39.44   43.12
6.5     111.4   114.56  99.75   99.6    65.83   79.79   91.8    65.19   70.87   96.41   83.45   72.99   82.11   68.73   50.05   67.17
7.5     103.33  90.54   102     111.13  99.92   97.08   99.33   85.55   100.53  119.61  122.82  85.62   69.34   97.45   76.03   94.27
8.5     111.4   97.91   90.67   106.49  113.55  116.52  96.32   88.08   119.85  123.45  106.59  93.14   72.98   85      88.53   104.33
9.5     83.2    88.71   111.06  113.49  113.55  122.96  105.38  118.64  119.85  131.18  127.47  113.36  76.62   123.73  96.24   102.29
10.5    81.25   70.62   108.35  78.67   89.24   114.57  108.76  123.26  109.49  102.45  103.38  77.53   89.16   99.5    115.51  96.91
11.5    87.85   68.74   63.89   46.97   76.82   82.65   93.36   107.01  88.64   63.02   75.79   85.19   84.4    77.47   119.36  100.68
12.5    51.41   60.38   38.28   52.17   61.38   82.65   84.84   87.88   66.82   63.02   57.45   79.48   96.72   83.09   83.56   82.52
13.5    43.83   49.97   12.76   33.89   61.38   26.69   57.67   63.06   52.24   21.69   28.71   42.53   57.61   57.7    71.63   62.14
14.5    34.74   20.81   10.16   20.84   38.33   24.29   44.08   49.65   47.91   6.47    5.18    42.53   36.99   43.62   42.27   46.33
15.5    27.18   6.19    7.61    20.84   23      2.39    25.45   32.44   31.87   8.65    7.81    17      30.83   28.15   31.39   39.51
16.5    6.01    2.04    5.07    2.57    2.52    7.25    10.12   16.19   18.82   6.47    2.57    2.79    26.67   19.68   10.8    20.32
17.5    1.46    6.19    5.07    2.57    2.52    12.1    1.64    9.5     1.4     0       2.57    2.79    14.36   5.6     10.8    11.26
18.5    6.01    0       5.07    0       0       2.39    3.34    6.64    1.4     2.14    0       0       6.13    8.4     10.8    11.26
19.5    0       0       0       2.57    0       0       1.64    1.87    1.4     0       0       2.79    8.18    2.77    11.88   10.12
20.5    0       0       2.52    2.57    0       0       1.64    4.74    1.4     2.14    2.57    0       6.13    2.77    8.64    3.35
21.5    0       0       0       0       0       0       0       1.87    0       0       0       2.79    6.13    4.19    6.48    1.1
22.5    0       0       0       0       0       0       0       1.87    0       0       2.57    0       2.02    1.37    3.21    0
23.5    0       0       0       0       0       0       0       0.93    0       2.14    0       0       0       1.37    8.64    0
24.5    0       0       0       0       0       0       0       0.93    0       4.31    0       0       0       1.37    1.06    0
25.5    0       0       0       0       0       0       0       0       0       0       0       0       0       2.77    1.06    0
26.5    0       0       0       0       0       0       0       0       0       0       0       0       0       2.77    0       0
27.5    0       0       0       0       0       0       0       0       0       0       0       0       0       1.37    0       0
28.5    0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0
29.5    0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0
30.5    0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0
```

Search Results

Search Results   Tool Output

For Help, press F1   2   9 Read Ovr Block Sync Rec Caps