

TMAXobs.txt

TMAXobs.txt holds daily maximum air temperature forcing data for HYPE. Minimum and maximum air temperature can only be used for models with daily time step (for now). Several of the available model options for potential evaporation depend on vapor pressures and net radiation, which may be calculated with the help of minimum and maximum air temperature data.

The file is located in the forcingdir folder (set in [info.txt](#)). Air temperature (degree Celsius) has to be given for all timesteps, but longer time series is allowed. No missing values may exist. Program won't handle them. The *TMAXobs*-file is read only if readtminmaxobs is set in [info.txt](#).

The file may have comment rows in the beginning of the file. These rows have to begin with ! !. The first row read is column headings. It holds a text string (e.g. 'date', no spaces allowed) for the first column, and integers in the form of station or subbasin id numbers for the rest of the columns.

The first column is date-time. The default format is yyyy-mm-dd. The date-time is the beginning of the timestep. It is possible to use date-time format: yyyymmdd instead. It is expected for all forcing files if readformat 1 is set in [info.txt](#).

The second to last columns are maximum air temperature for all stations or subbasins. The ID number (first row) may be tmaxobsid or subid. If tmaxobsid is used, several subbasins may use the same temperature time series. subid is defined in [GeoData.txt](#). The order of subbasins does not have to be same as in [GeoData.txt](#). tmaxobsid may be defined in [ForcKey.txt](#).

Example snippet of *TMAXobs.txt* file:

```
date          1234  1245
1990-01-01 00:00    0    0
1990-01-01 12:00    2.0  3.0
1990-01-02 00:00   -1.5  0.5
...
```

TMAXobs_nnn.txt holds air temperature forcing data for sequence with seqnr nnn. For seqnr 0 *TMAXobs.txt* is used.