

## Frequently Asked Questions about the NLOS Soil Nitrogen Model and iNLOS Web Interface

### Weather Data Upload Files

One of the options for providing weather observations to the model is through an uploaded file in comma-delimited .csv format (not tab-delimited as some "csv" files are).

The first line of the file must be a header listing the names of the columns. The following columns must be present:

- Date
- Tmax
- Tmin
- Prec
- Et

The column names are not case sensitive, the order doesn't matter and other columns can be mixed in (they just get ignored).

Most common date formats can be handled (e.g. 1961-01-01 or 1/1/1961). Commas embedded in the date strings would obviously be a problem.

Maximum and minimum temperatures (Tmax, Tmin) should be in degrees Celsius; precipitation and evapotranspiration (Prec, Et) in millimetres.

Example:

```
stationId,year,day,temp,tmin,tmax,prec,et,date
Kiel-Holtenau,1961,1,3,0.5,3.4,1.3,0.1,1/1/1961
Kiel-Holtenau,1961,2,2,0.3,3.4,7.4,0.3,1/2/1961
Kiel-Holtenau,1961,3,2.8,1.8,5.1,0,0.2,1/3/1961
Kiel-Holtenau,1961,4,2.6,0.8,4.6,0.8,0.4,1/4/1961
Kiel-Holtenau,1961,5,2.4,0.2,3.4,4.2,0.2,1/5/1961
```

In the example above, the stationId, year, day and temp columns would get ignored; only the last 5 columns would be used and the fact that the date column is last is fine.