Temperature measurements

Source of data

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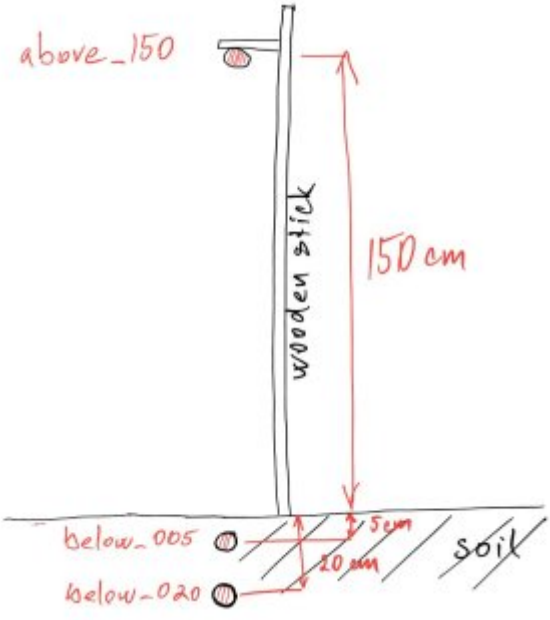
Description of the dataset

Dataset contains temperatures recorded between 2007/10/4 to 2007/10/21 by one microclimatic station, composed from three sensors (see the schema beside), one located 150 cm above ground (`above_150`), one 5 cm below ground (`below_005`) and another 20 cm below ground (`below_020`). Temperatures are recorded by each sensor per 5 minutes, 24 hours per day (288 measurements per day).



Between 2007/10/11 and 2007/10/13, the temperature was not recorded due to technical problems. For this period, the temperatures for each sensor were modeled using GAM models and data from nearby microclimatic station. Modeled data are stored in variables with extension `_model`.

Variables

Variable	Description
`date_time`	date and time of recording (YYYY-MM-DD HH:MM:SS CET, where CET = Central European Time)
`above_150`	sensor situated 150 cm above ground; temperature in °C
`below_005`	sensor situated 5 cm below ground; temperature in °C
`below_020`	sensor situated 20 cm below ground; temperature in °C
`above_150_model`	missing values for sensor S modelled by GAM; temperature in °C
`below_005_model`	missing values for sensor M modelled by GAM; temperature in °C
`below_020_model`	missing values for sensor L modelled by GAM; temperature in °C

Locality

Brno, Czech Republic (Kejbaly experimental garden)

Data for download

- temperatures.xls - Excel file (*.xls format)
- temperatures.txt - plain text file, separated by tabulators (*.txt format)