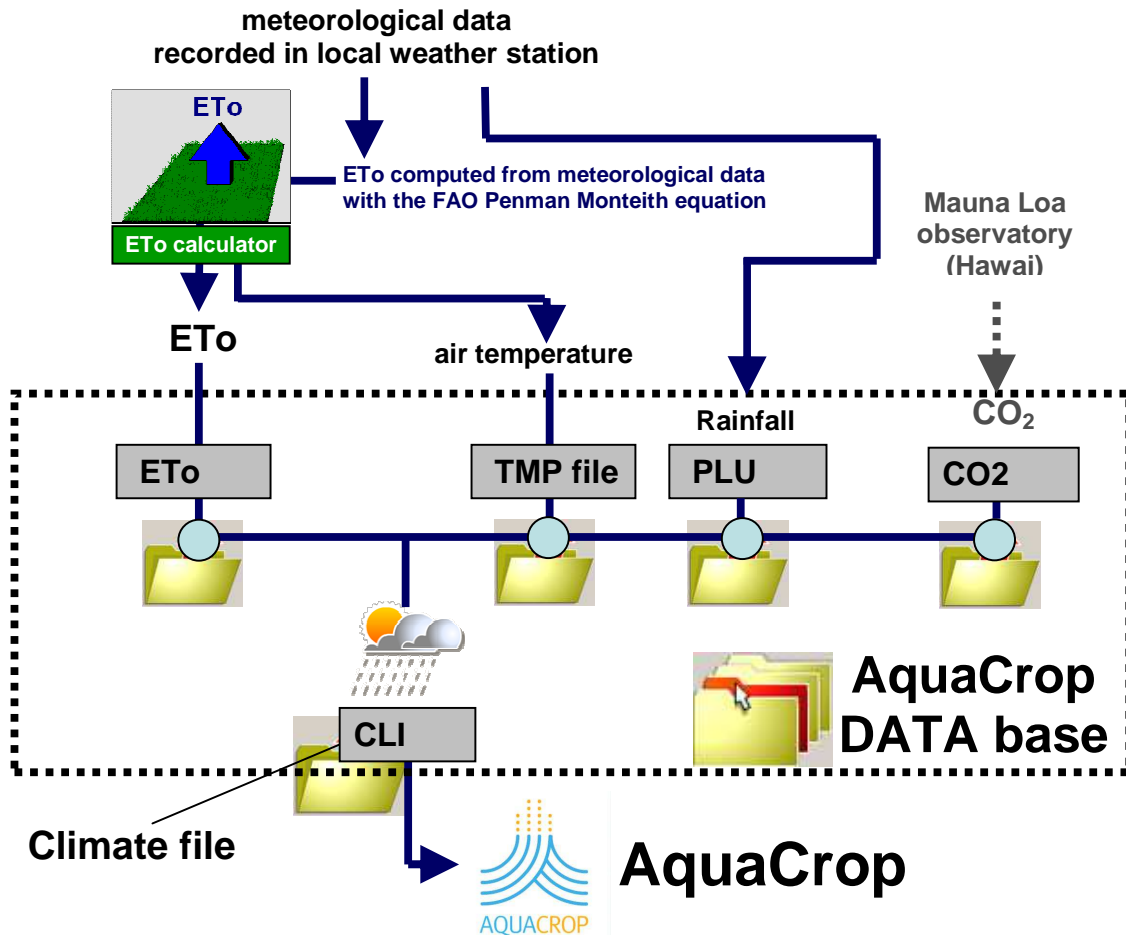


Handout Nr. 6

Climatic data file



A climate file (*.CLI) contains next to its description (1st line) and the reference of the AquaCrop version (2nd line), the names of the air temperature file (*.TMP), ETo file (*.ETo), rainfall file (*.PLU), and CO₂ file (*.CO2).

ETo, TMP and PLU file may contain daily, 10-daily or monthly data of the local weather station. AquaCrop uses as default the MaunaLoa.CO2 file which contains estimated and observed mean annual atmospheric CO₂ concentration for the period 1902 to 2099.

Example of a climate file (files with extension CLI)

Tunis (Tunisia) climatic data
3.0 : AquaCrop Version (January 2009)
Tunis.TMP
Tunis.ETo
Tunis7902.PLU
MaunaLoa.CO2

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Temperature (file with extension TMP), ETo (file with extension ETo) and Rainfall files (file with extension PLU) have all the same structure which consists of:

- 5 lines containing information required by the program;
- an empty line to separate the information from the records;
- 2 lines for the title of the records;
- list of records (1 line for each daily, 10-daily or monthly record). The records are the daily, mean 10-daily or monthly minimum and maximum air temperature in degrees Celsius, the daily, mean 10-daily or monthly ETo in mm/day and the total daily, 10-daily or monthly rainfall data in mm. The data may consist of integers or reals with 1 digit (1/10 of a degree or a millimeter).

1. EXAMPLE TEMPERATURE FILE (files with extension TMP)

First line is a description which is displayed when selecting the file

- 2 : Daily records (1=daily, 2=10-daily and 3=monthly data)
- 1 : First day of record (1, 11 or 21 for 10-day or 1 for months)
- 1 : First month of record

2000 : First year of record (1901 if not linked to a specific year)

```
Tmin (°C)  TMax (°C)
=====
7.0      15.0
8.0      16.0
9.0      18.0
```

2. EXAMPLE ETo file (files with extension ETo)

First line is a description which is displayed when selecting the file

- 3 : Daily records (1=daily, 2=10-daily and 3=monthly data)
- 1 : First day of record (1, 11 or 21 for 10-day or 1 for months)
- 1 : First month of record

1901 : First year of record (1901 if not linked to a specific year)

```
Average ETo (mm/day)
=====
4.9
5.2
6.0
```

3. EXAMPLE RAIN file (files with extension PLU)

First line is a description which is displayed when selecting the file

- 1 : Daily records (1=daily, 2=10-daily and 3=monthly data)
- 1 : First day of record (1, 11 or 21 for 10-day or 1 for months)
- 1 : First month of record

2000 : First year of record (1901 if not linked to a specific year)

```
Total Rain (mm)
=====
0.0
0.0
16.6
```