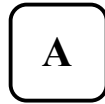




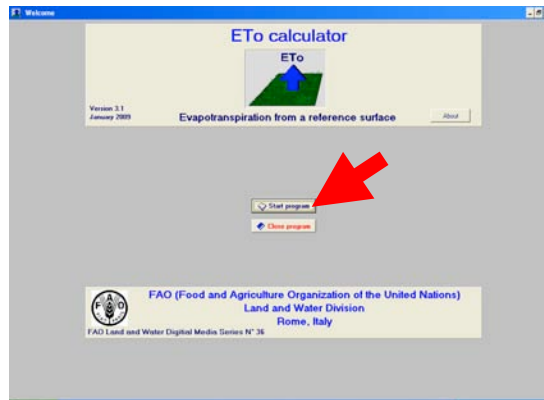
Practical Exercise on PC
Create Climate files – Monthly time step



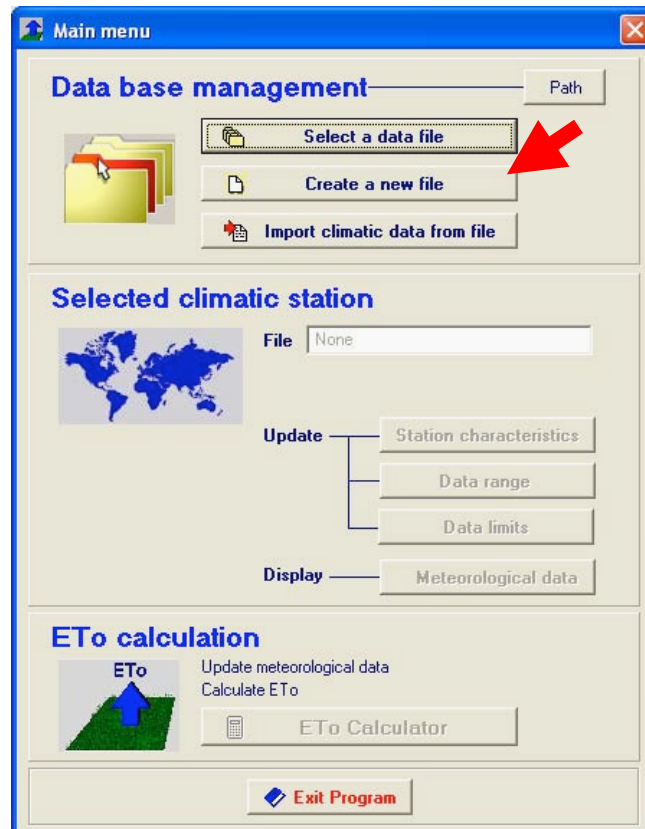
Solution of the exercise

Legend	Red flash		indicates buttons to click
	Red frame		indicates data to input
	Green frame		indicates output data

- Start program EToCalculator.



- In Data base management, Create a new file.



- Input all data required by filling in the *Create menu* page, then click *Create*.

When describing the location, switch from *Degree and Minutes* to *Decimal degrees*.

Be sure to select the correct *Meteorological data Type* (*monthly*) and the suitable *Time range* (*Not linked to a specific year*).

- In *Data and ETo* menu, *Input data description* specify the meteorological parameters monitored.

- In *Data and ETo* menu, *Meteorological data and ETo* input the meteorological data and visualize ETo as a result.

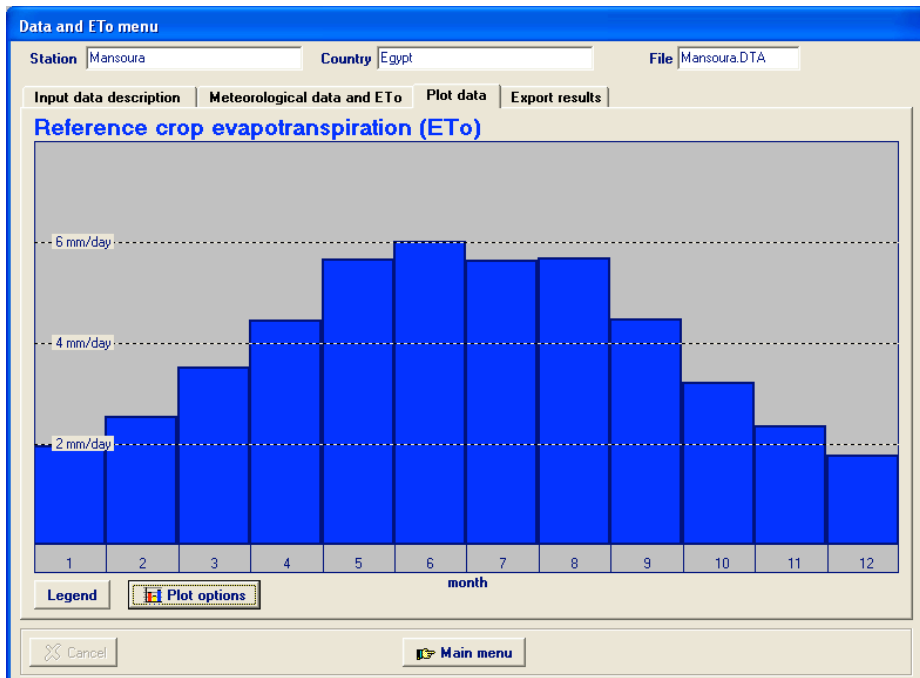
In case of missing data, leave the corresponding cell empty.

The screenshot shows the 'Data and ETo menu' software interface. The 'Input data description' is set to 'Meteorological data and ETo'. The table below shows the input data for months June through December:

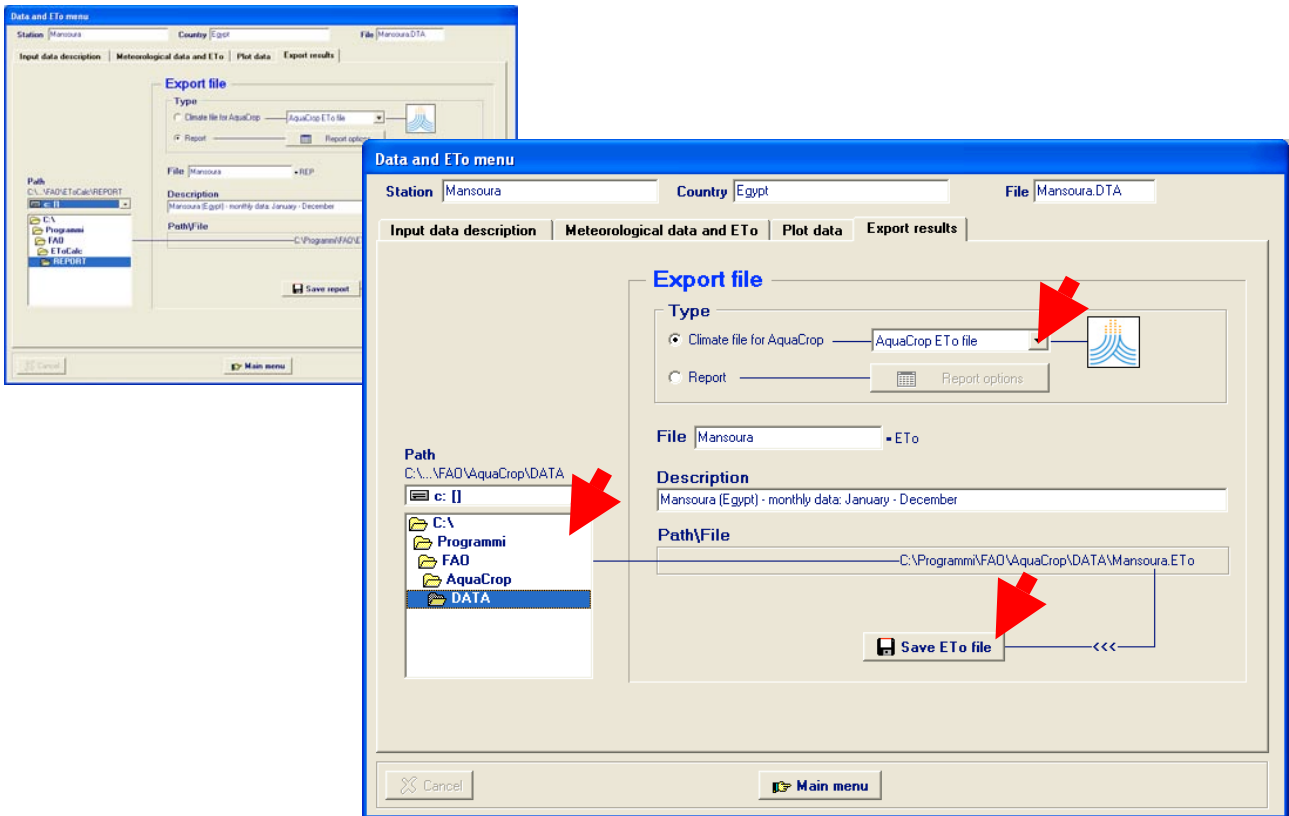
Month	June	July	August	September	October	November	December
Tmax °C	33.6	32.6	33.5	32.5	28.7	25.8	21.2
Tmin °C	18.6	20.5	20.5	19.0	17.1	14.0	9.2
u(2) m/sec	1.50	1.30	1.30	1.10	1.00	1.10	1.10
n hour/day	10.80	10.50		9.40	8.50	7.30	5.90
ETo mm/day	6.0	5.6	5.7	4.5	3.2	2.3	1.8

The text 'Result (ETo)' is displayed in green below the table.

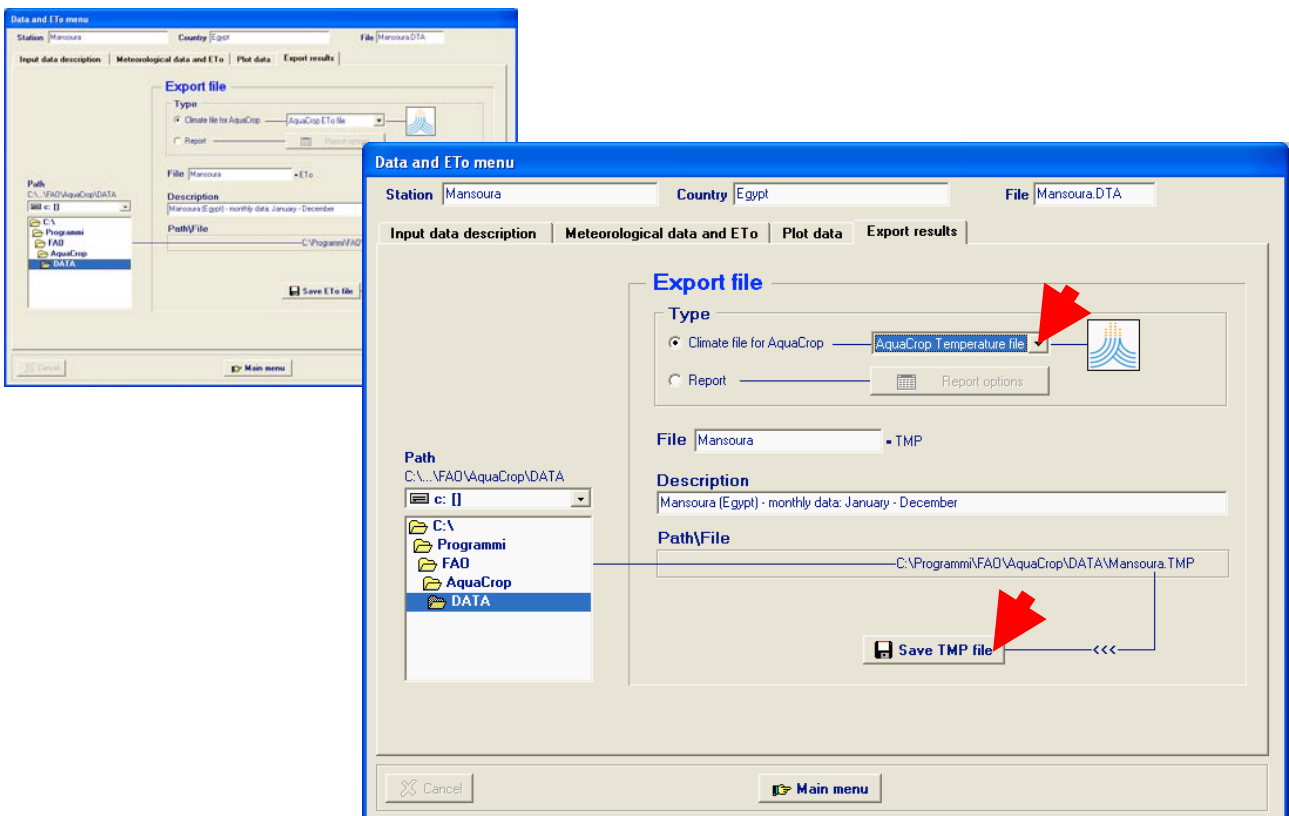
- In *Data and ETo* menu, *Plot data* visualize ETo on graph.



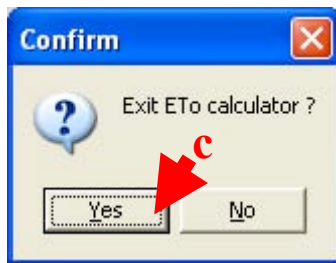
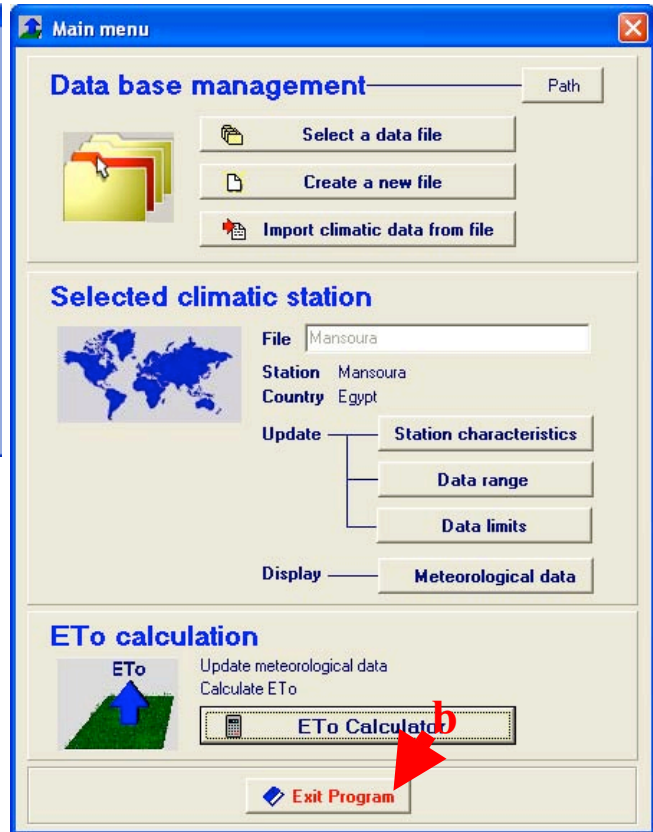
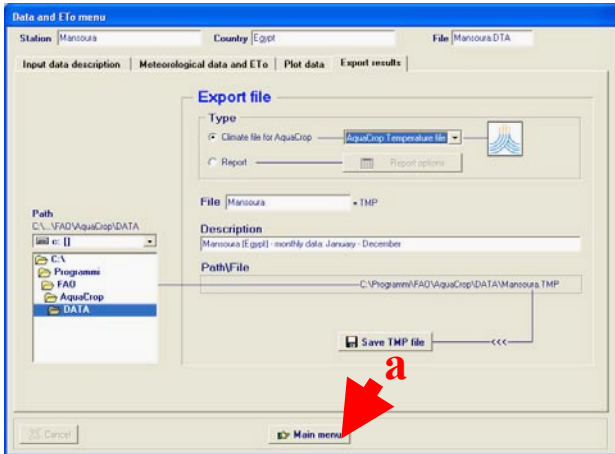
- In *Data and ETo* menu, *Export results* select the *Type* of file to export (*Climate file for AquaCrop, AquaCrop ETo file*), select the *Path* (*C:\..\AquaCrop\DATA*), and *Save ETo file*.



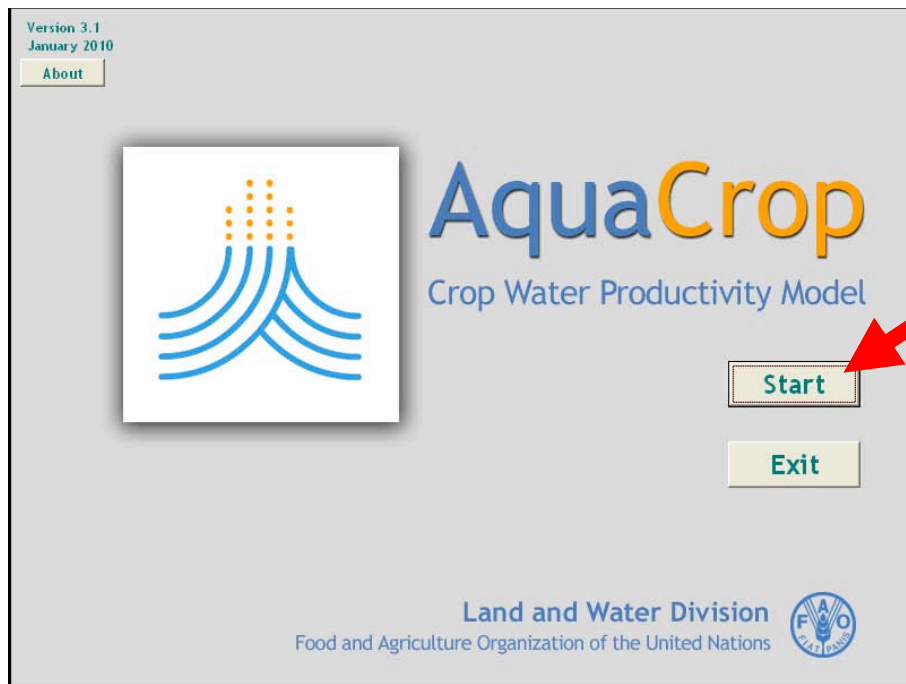
- In *Data and ETo* menu, *Export results* select the *Type* of file to export (*Climate file for AquaCrop, AquaCrop Temperature file*), check the *Path* (*C:\..\AquaCrop\DATA*), and *Save TMP file*.



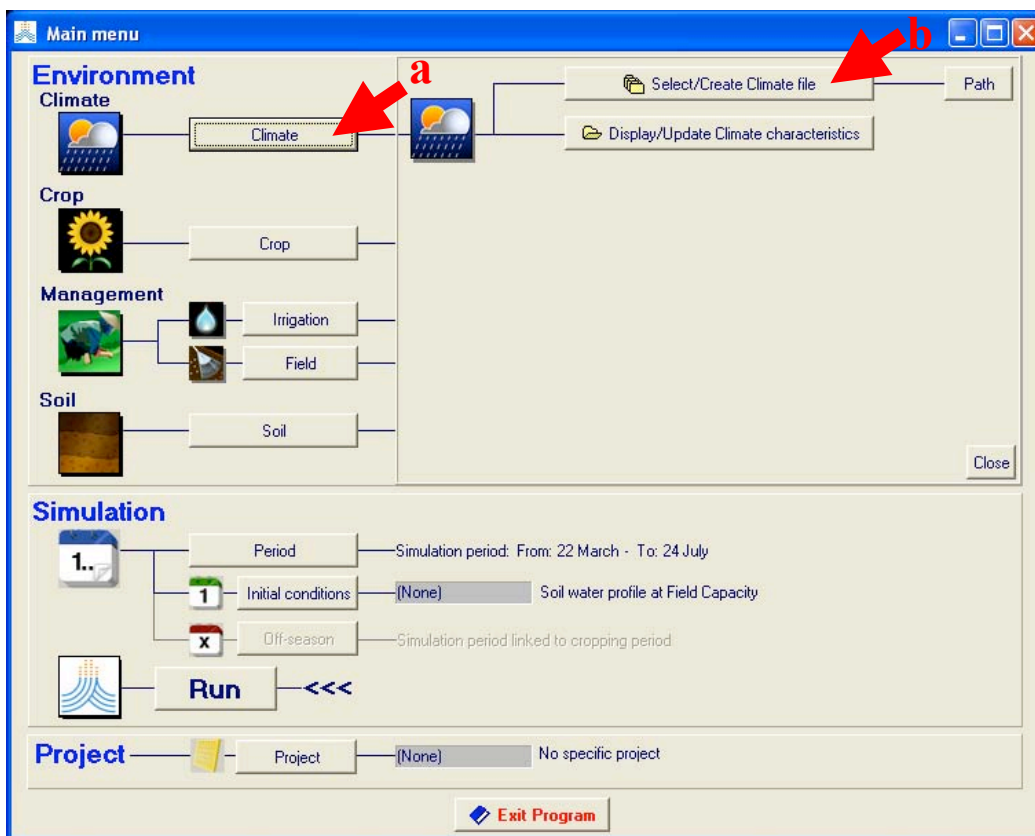
- Click **Main menu (a)**, **Exit program (b)**, then confirm **(c)**.



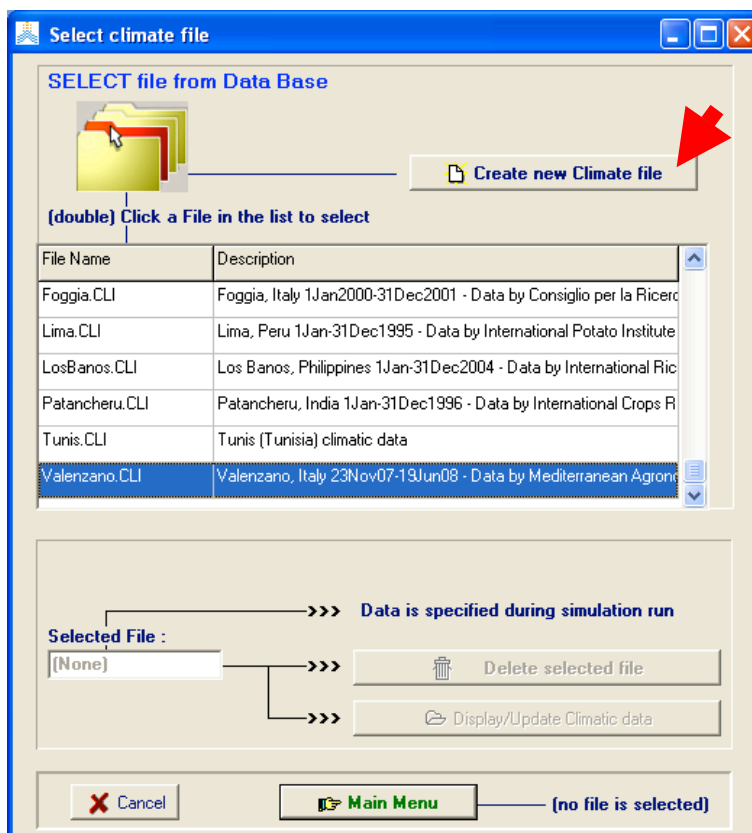
- Start AquaCrop.



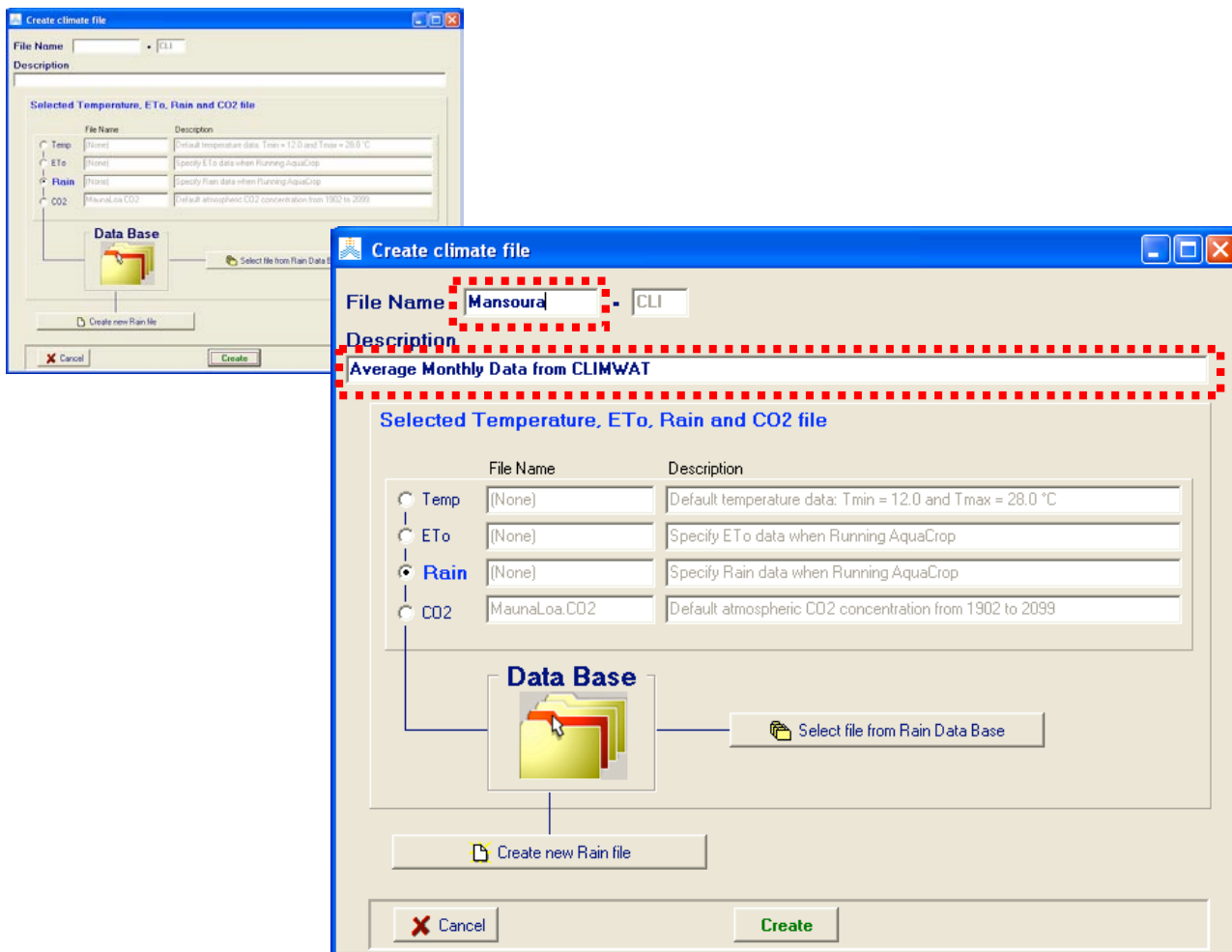
- In *Climate (a)*, *Select/Create Climate file (b)*.



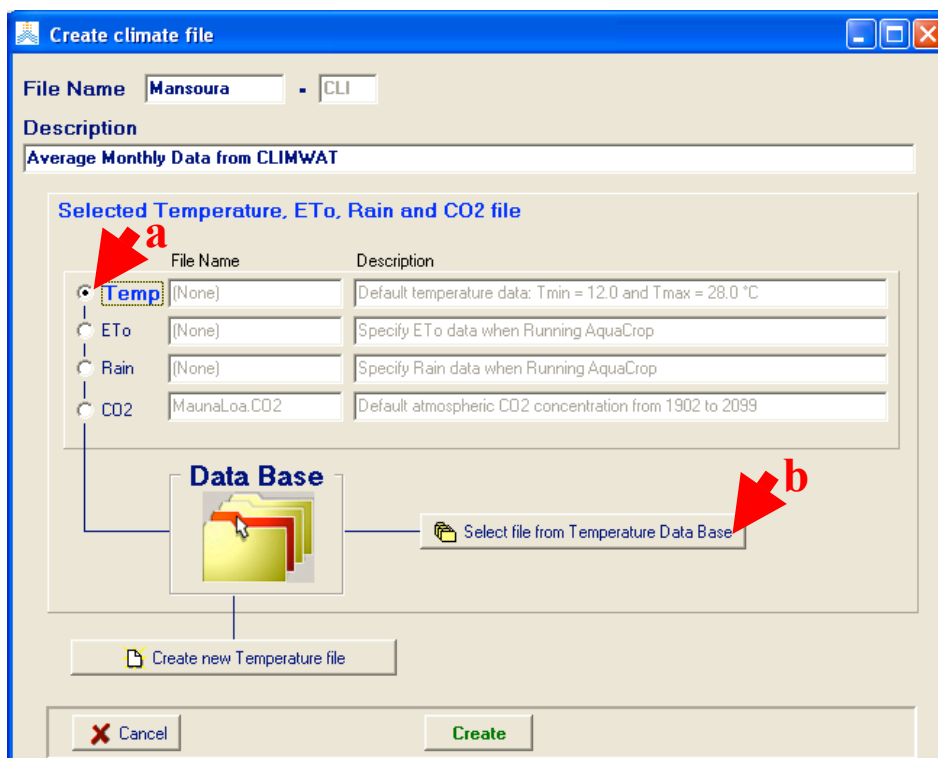
- *Create new Climate file.*



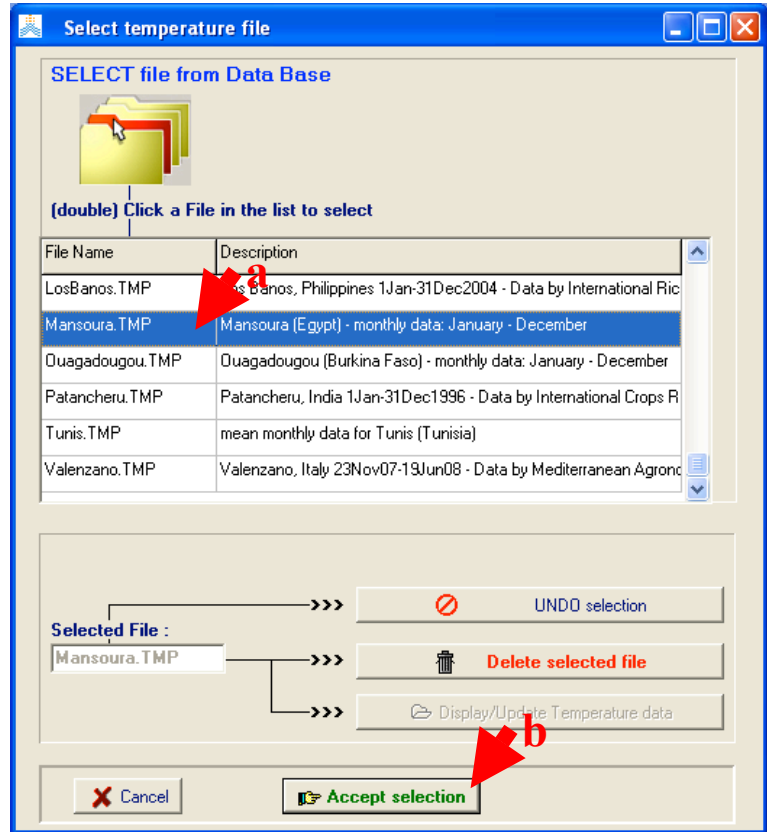
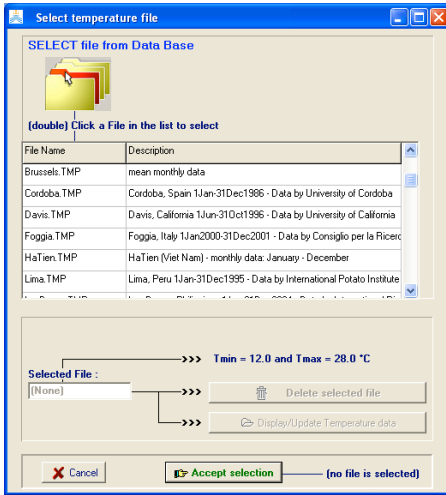
- Provide *File Name* and *Description* (optional).



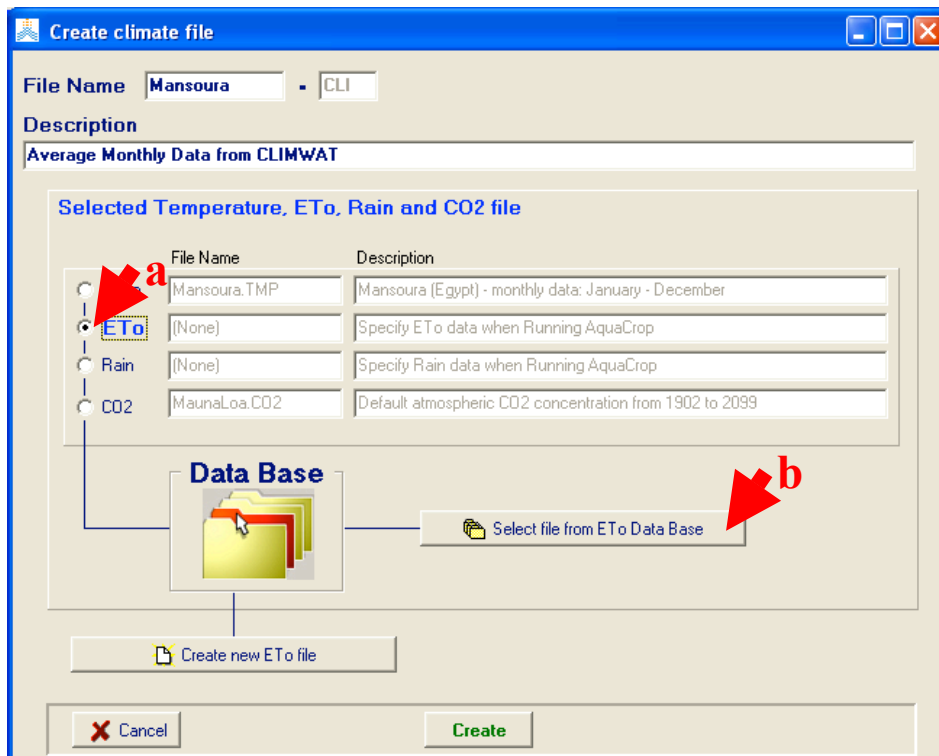
- Select *Temperature* (a), then *Select file from Temperature Data Base* (b).



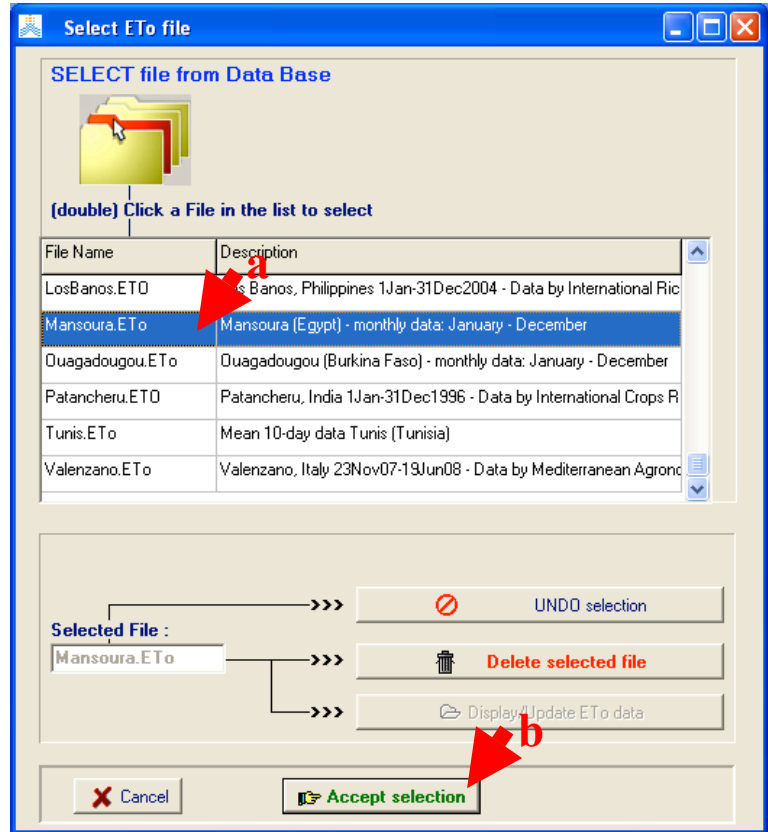
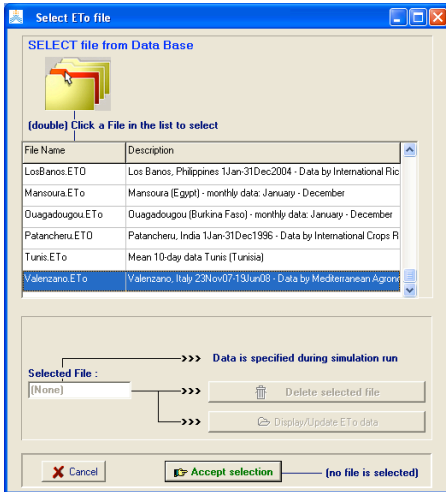
- Select the Temperature file by double clicking the file name (a), then *Accept selection* (b).



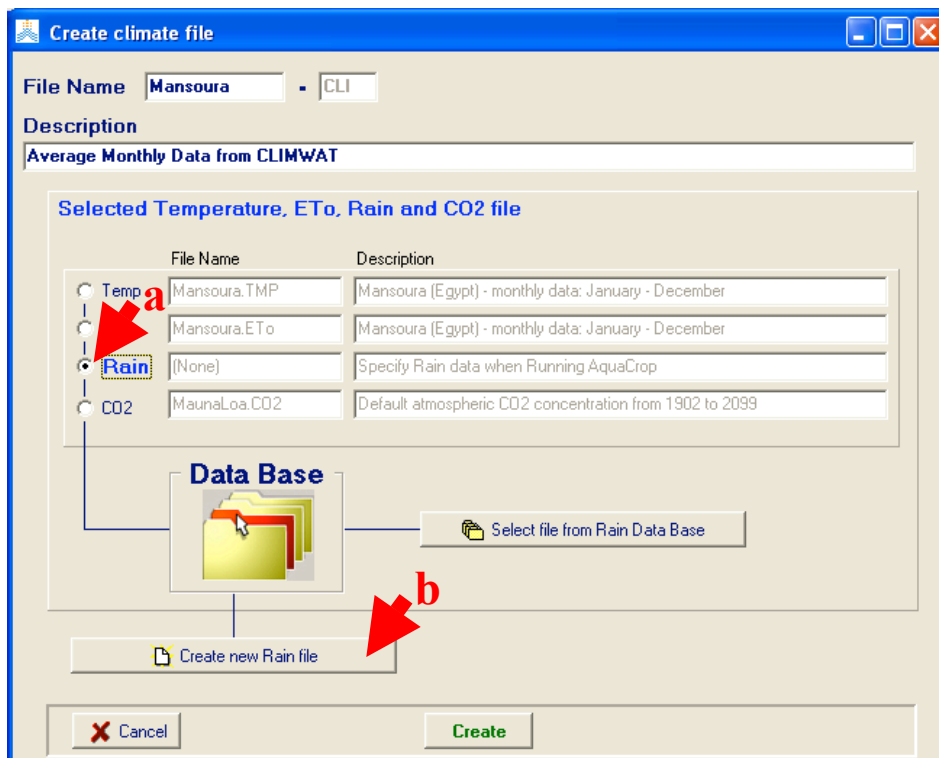
- Select *ETo* (a), then *Select file from ETo Data Base* (b).



- Select the Temperature file by double clicking the file name (a), then *Accept selection* (b).



- Select *Rain* (a), then *Create new Rain file* (b).



- Input all data required in *Create rain file*, the click *Create*.

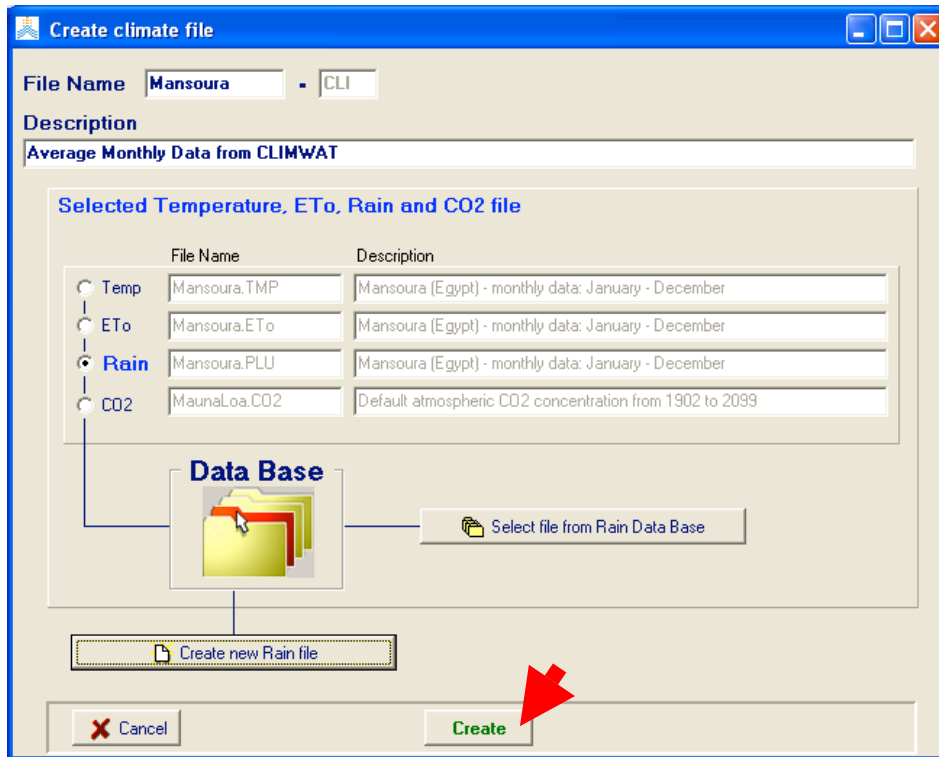
Be sure to select the correct *Meteorological data Type* (*monthly*) and the suitable *Time range* (*Not linked to a specific year*).

- Input all data required in *Display/Update Rainfall file*, the click *Climate file*, and *Save changes to Climate record*.

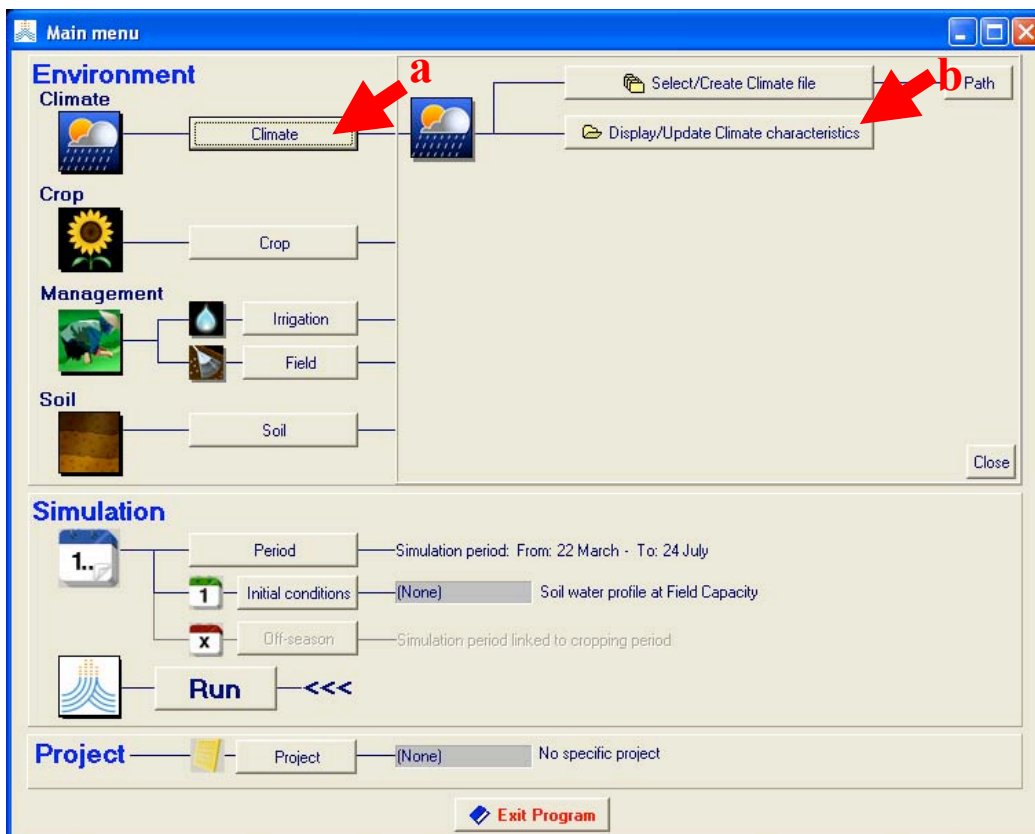
Record	Month	Year	Rain
1	January	none	0.0
2	February	none	
3	March	none	
4	April	none	
5	May	none	
6	June	none	
7	July	none	
8	August	none	

Record	Month	Year	Rain
1	January	none	10.0
2	February	none	8.0
3	March	none	6.0
4	April	none	3.0
5	May	none	4.0
6	June	none	1.0
7	July	none	0.0
8	August	none	0.0

- Create climate file.



- In Climate (a), Display/Update Climate characteristics (b).



- Display climate data.

