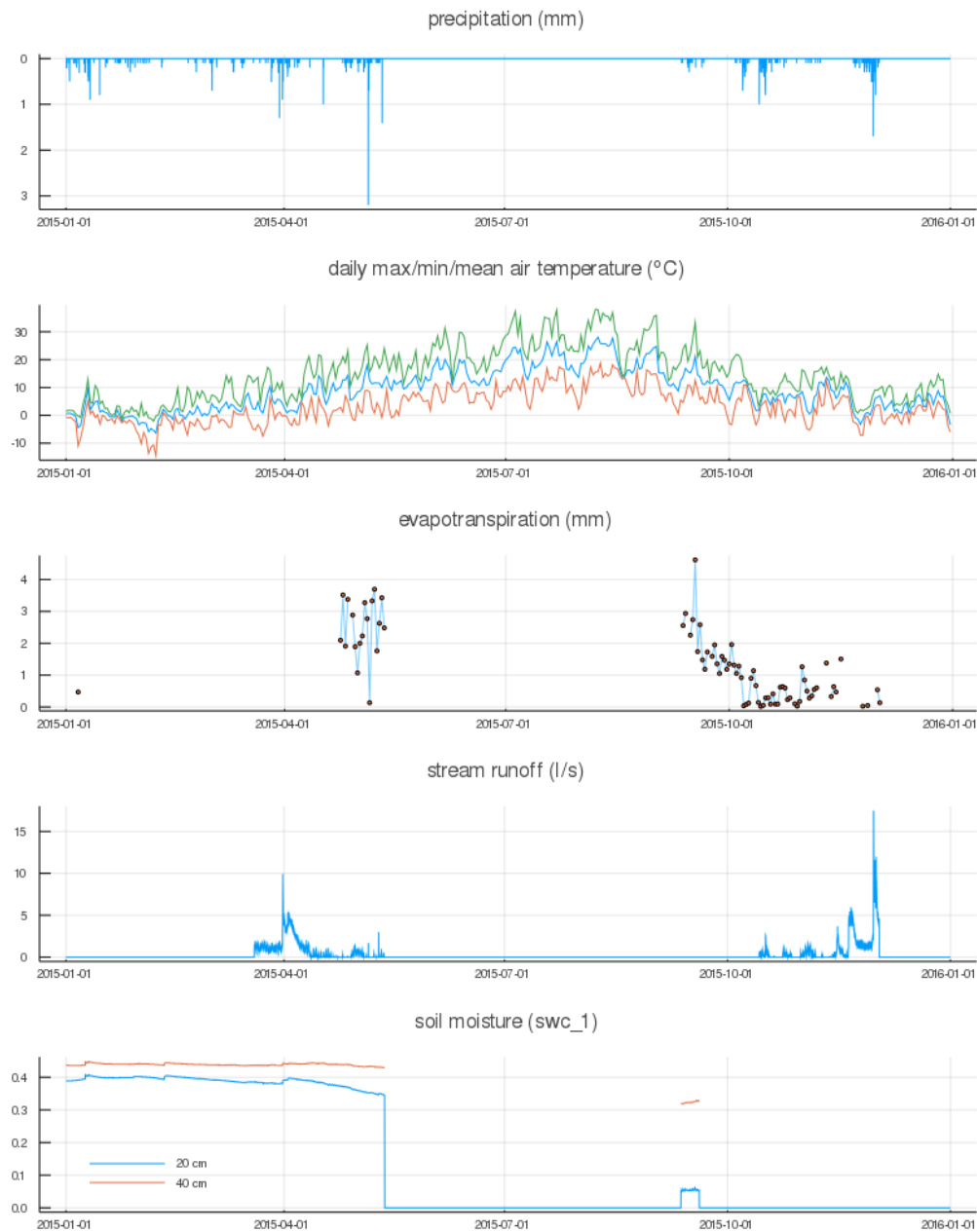


## *Data description for Nučice catchment 2015*

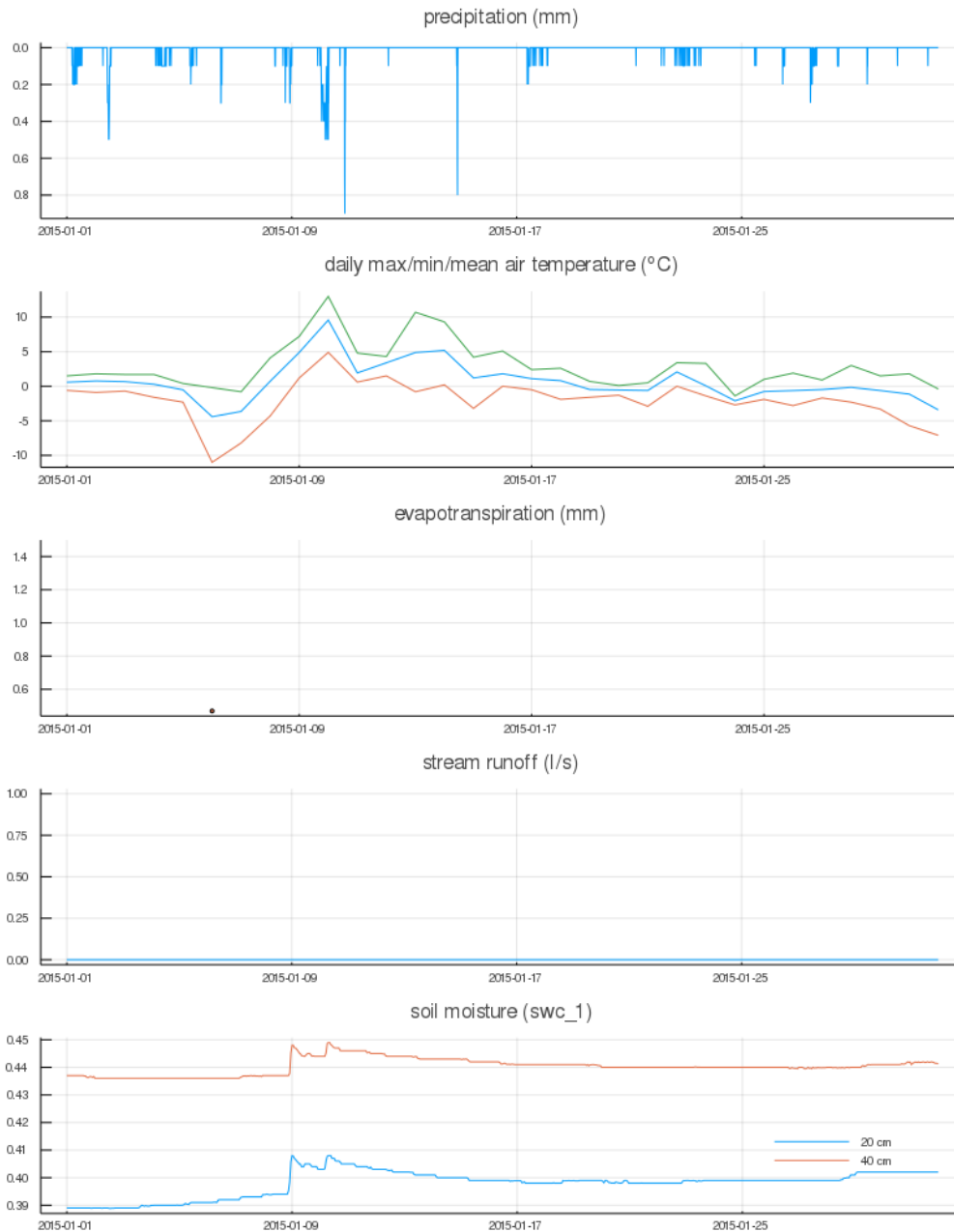
### 1. Summary



Precipitation, reference evapotranspiration, stream discharge, and soil moisture were measured partially in this year. Only air temperature was recorded for most of the year. The highest precipitation is 3.2 mm (in May) and the largest discharge is 17.49 l/s (in November). The lowest/highest temperature were -14.5 °C (in February) and 38.1 °C (in August), respectively.

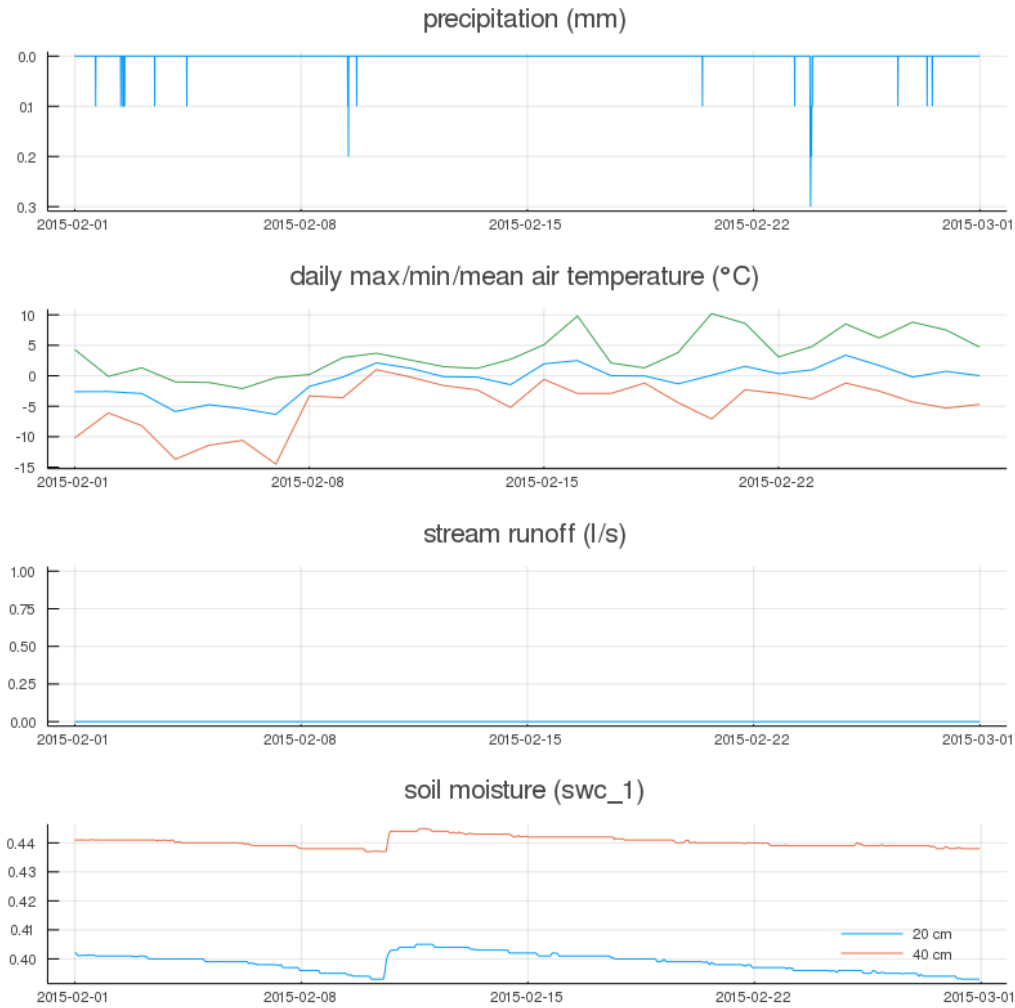
## 2. Monthly analysis

### 2.1. January



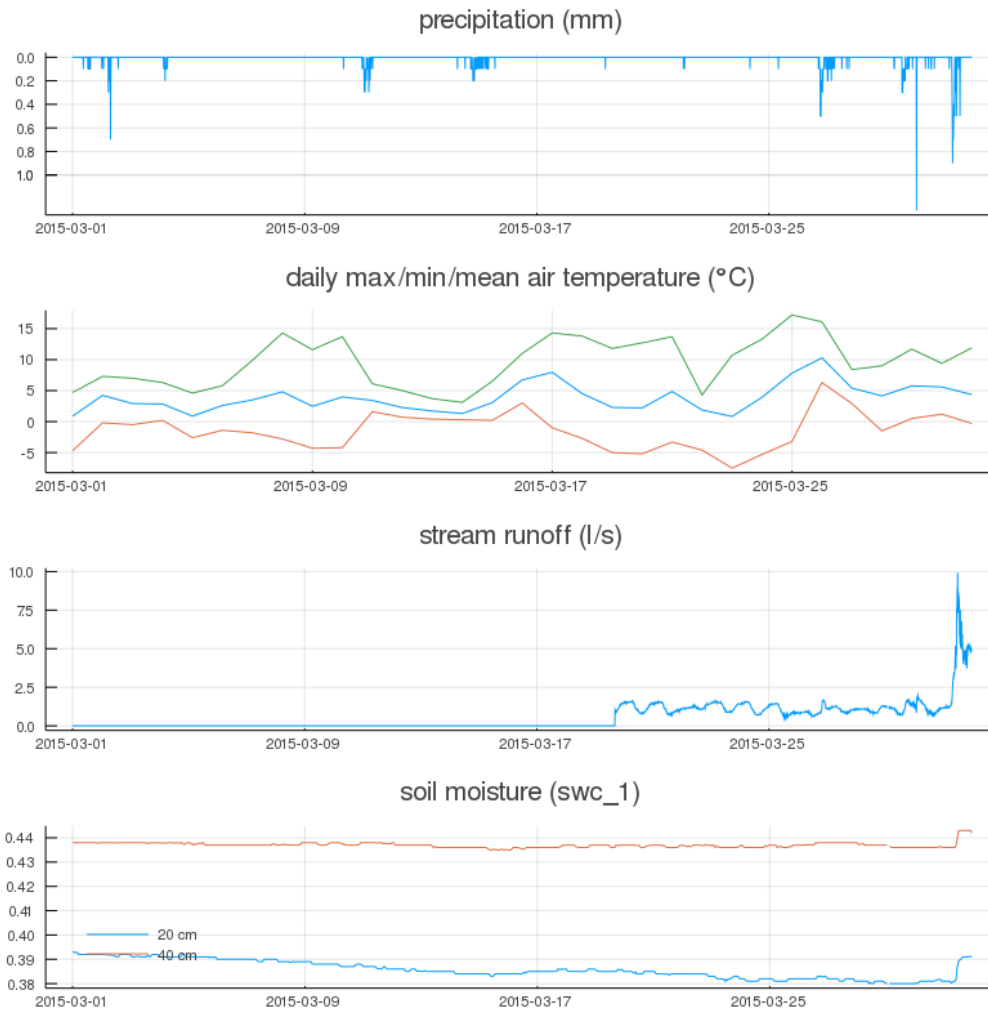
The recorded data includes precipitation, temperature, reference evapotranspiration, stream discharge at the outlet, and soil water content at 2 depths. Precipitation occurred evenly in the month. The average precipitation is about 0.009 mm, the maximum precipitation is 0.9 mm. The mean temperature is 0.7 °C. The minimum and maximum temperature are -11.0 °C and 13.0 °C. The reference evapotranspiration was only recorded for one day with the value of 0.47 mm. No runoff was observed because of the devices error or maintenance of the gauging station. Only two soil moisture sensors (20 cm and 40 cm) were functioning in this month. Soil moisture was in a relatively stable statue. There was only a small increase of soil water content in the subsoil after heavy rainfall events.

## 2.2. February



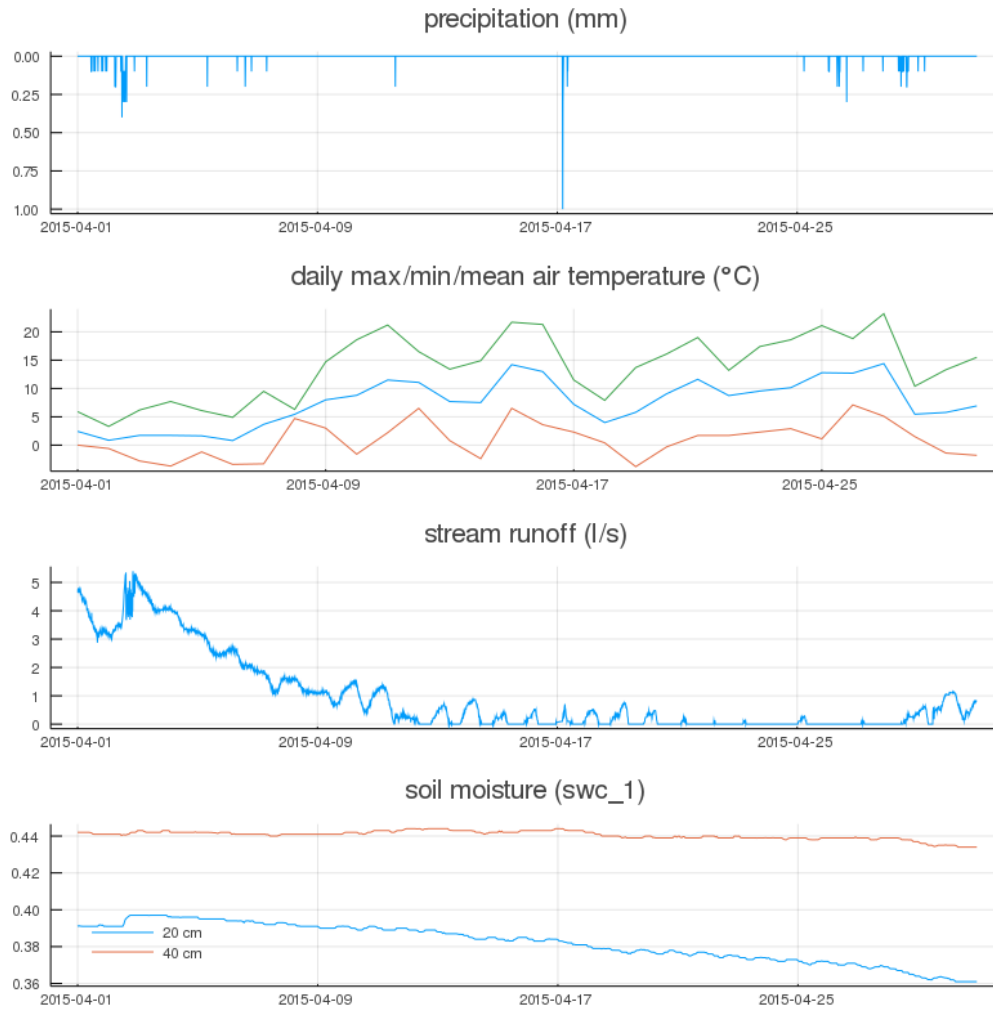
The recorded data includes precipitation, temperature, stream discharge at the outlet, and soil water content at 2 depths. Precipitation occurred evenly in the month. The average precipitation is about 0.001 mm, the maximum precipitation is 0.3 mm. The mean temperature is 0.7 °C. The minimum and maximum temperature are -14.5 °C and 10.2 °C. No runoff was observed because of the devices error or maintenance of the gauging station. Only two soil moisture sensors (20 cm and 40 cm) were functioning in this month. Soil moisture was in a relatively stable statue. There was only a small increase of soil water content in the subsoil after heavy rainfall events.

### 2.3. March



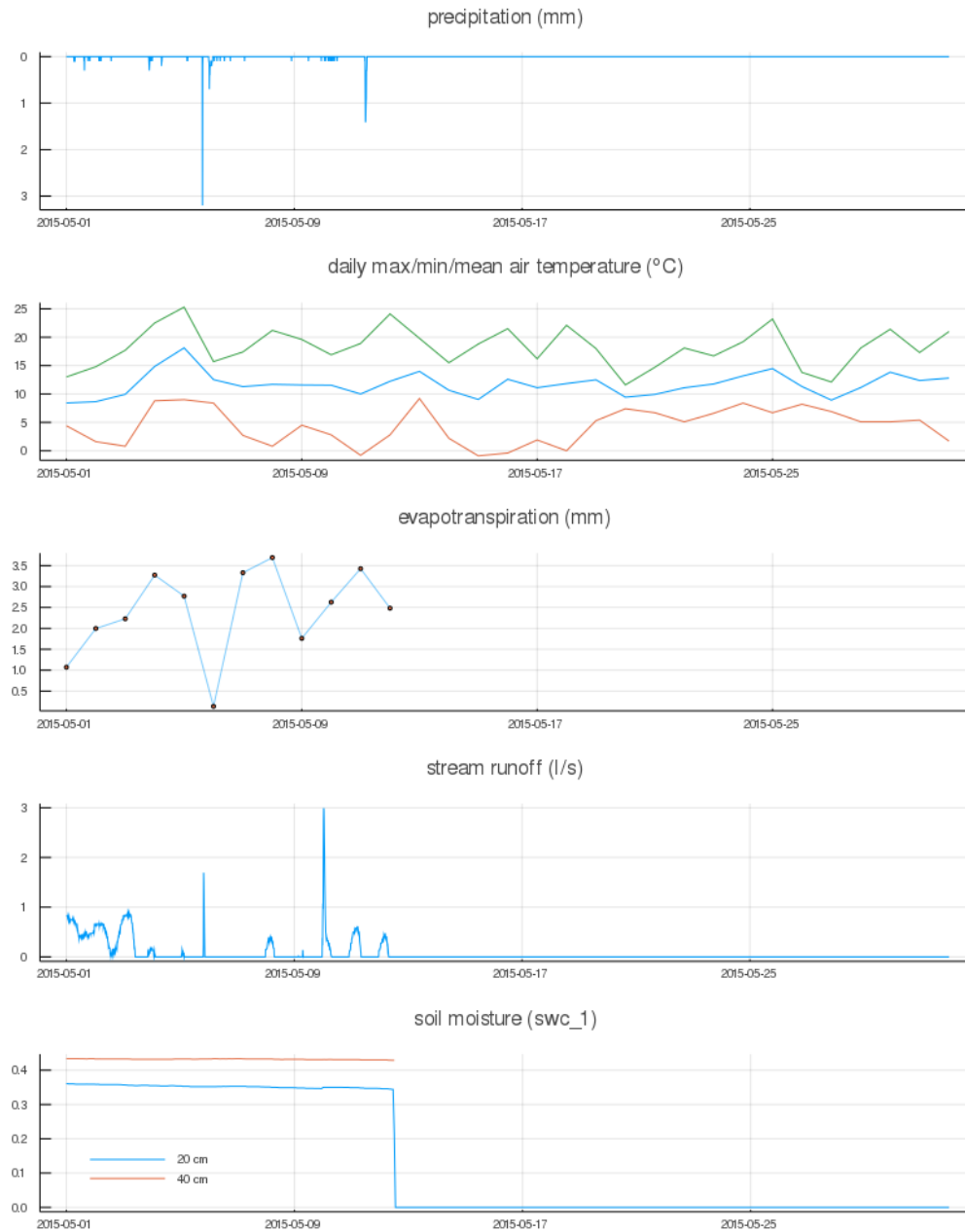
The recorded data includes precipitation, temperature, stream discharge at the outlet, and soil water content at 2 depths. Precipitation occurred evenly in the month. The average precipitation is about 0.009 mm, the maximum precipitation is 1.3 mm. The mean temperature is 3.9 °C. The minimum and maximum temperature are -7.5 °C and 17.2 °C. No runoff was observed for the first half of the month because of the devices error or maintenance of the gauging station. Then a peak flow occurred with the value of 9.93 l/s after a heavy rainfall event. Only two soil moisture sensors (20 cm and 40 cm) were functioning in this month. Soil moisture was in a relatively stable statue. There was only a small increase of soil water content in the subsoil after heavy rainfall events.

## 2.4. April



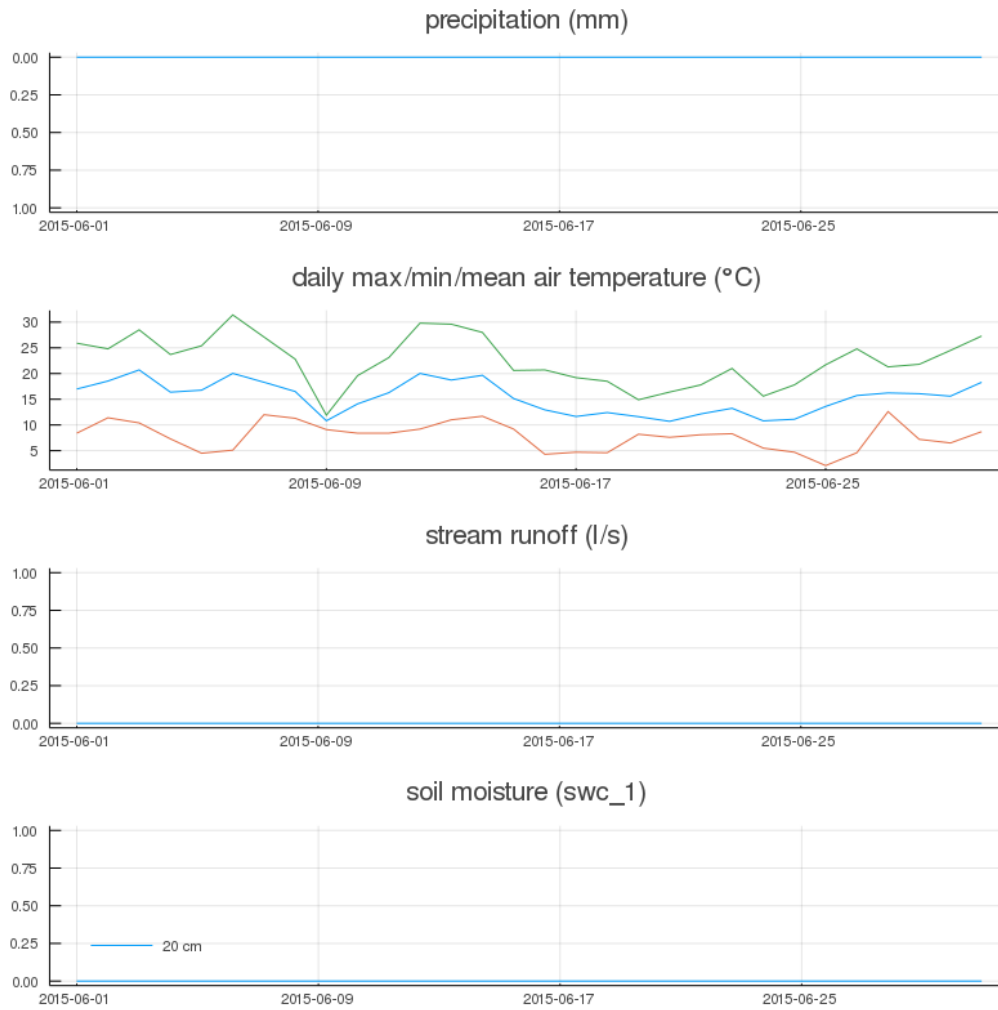
The recorded data includes precipitation, temperature, stream discharge at the outlet, and soil water content at 2 depths. Precipitation occurred evenly in the month. The average precipitation is about 0.003 mm, the maximum precipitation is 1.0 mm. The mean temperature is 7.8 °C. The minimum and maximum temperature are -3.8 °C and 23.2 °C. The stream discharge was higher at the beginning of the month with the highest value of 5.40 l/s. Then the runoff showed a decreasing trend for the rest of the month. Only two soil moisture sensors (20 cm and 40 cm) were functioning in this month. Soil moisture was in a relatively stable statue. However, the 20 cm sensor also showed a decreasing trend as the stream discharge.

## 2.5. May



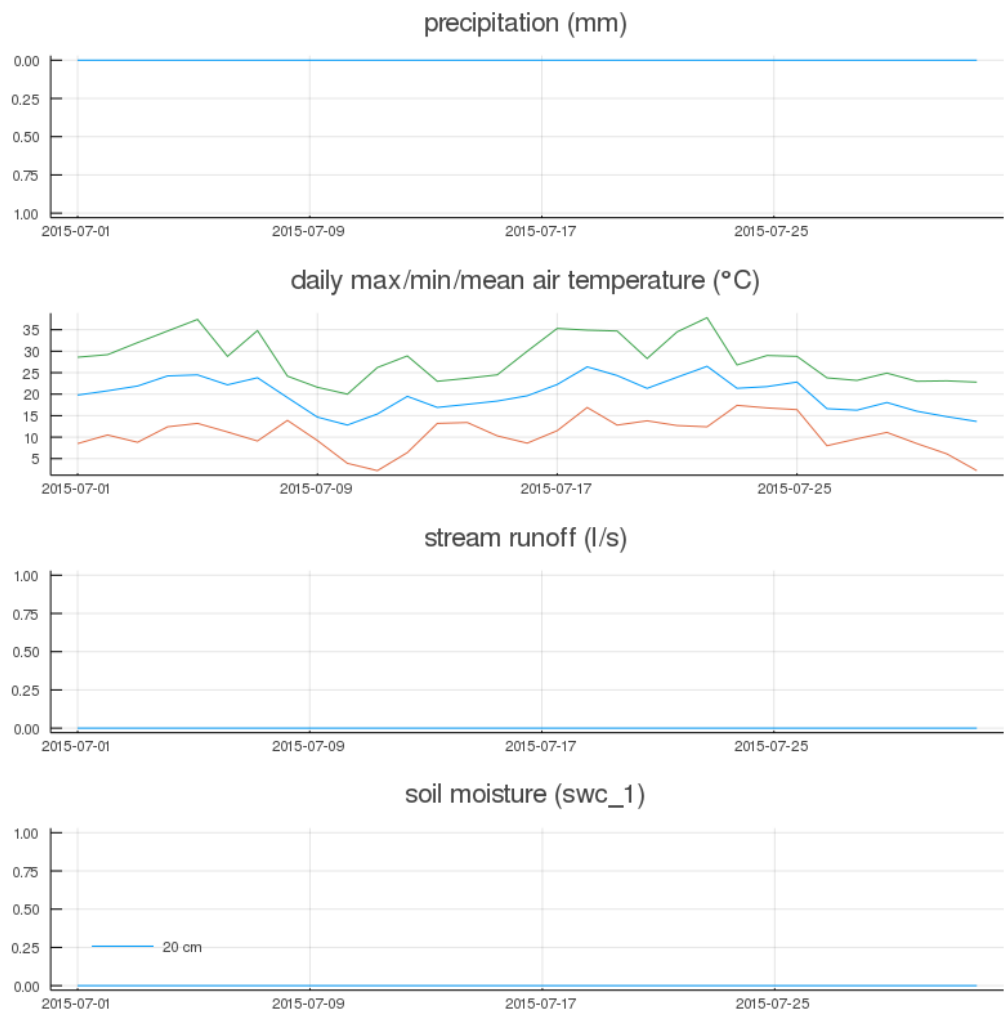
The recorded data includes precipitation, temperature, reference evapotranspiration, stream discharge at the outlet, and soil water content at 2 depths. Precipitation only recorded for the first half of the month. The average precipitation is about 0.005 mm, the maximum precipitation is 3.2 mm. The mean temperature is 11.7 °C. The minimum and maximum temperature are -0.9 °C and 25.3 °C.. The reference evapotranspiration was only recorded for the first half of the month, with a mean value of 2.40 mm. Stream runoff also only recorded for the first half of the month, with a peak discharge of 3.0 l/s. Soil moisture was also only recorded for the first half of the month and soil moisture was in a relatively stable statue.

## 2.6. June



No data is available in this month except temperature. The mean temperature is 15.3 °C. The minimum and maximum temperature are 2.1 °C and 31.4 °C.

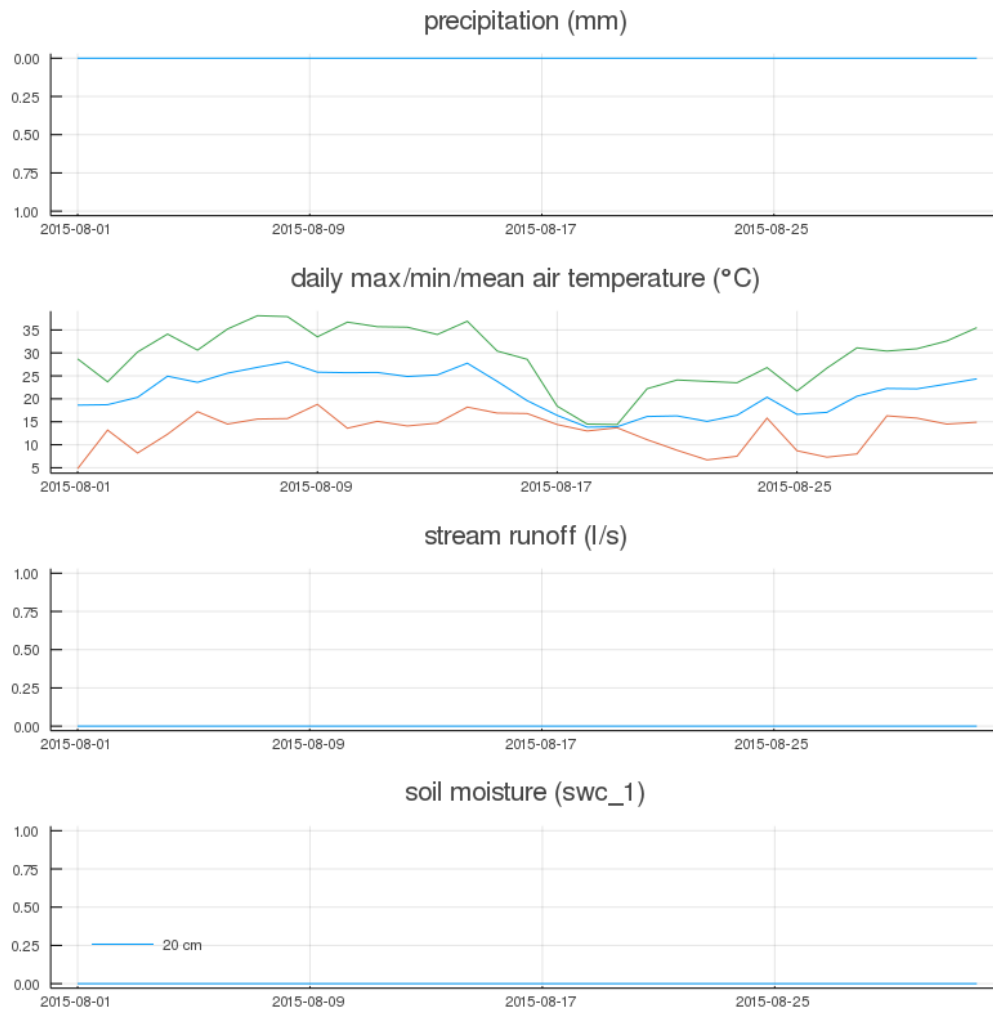
2.7. July



No data is available in this month except temperature. The mean temperature is 19.9 °C. The minimum and maximum temperature are 2.2 °C and 37.8 °C.

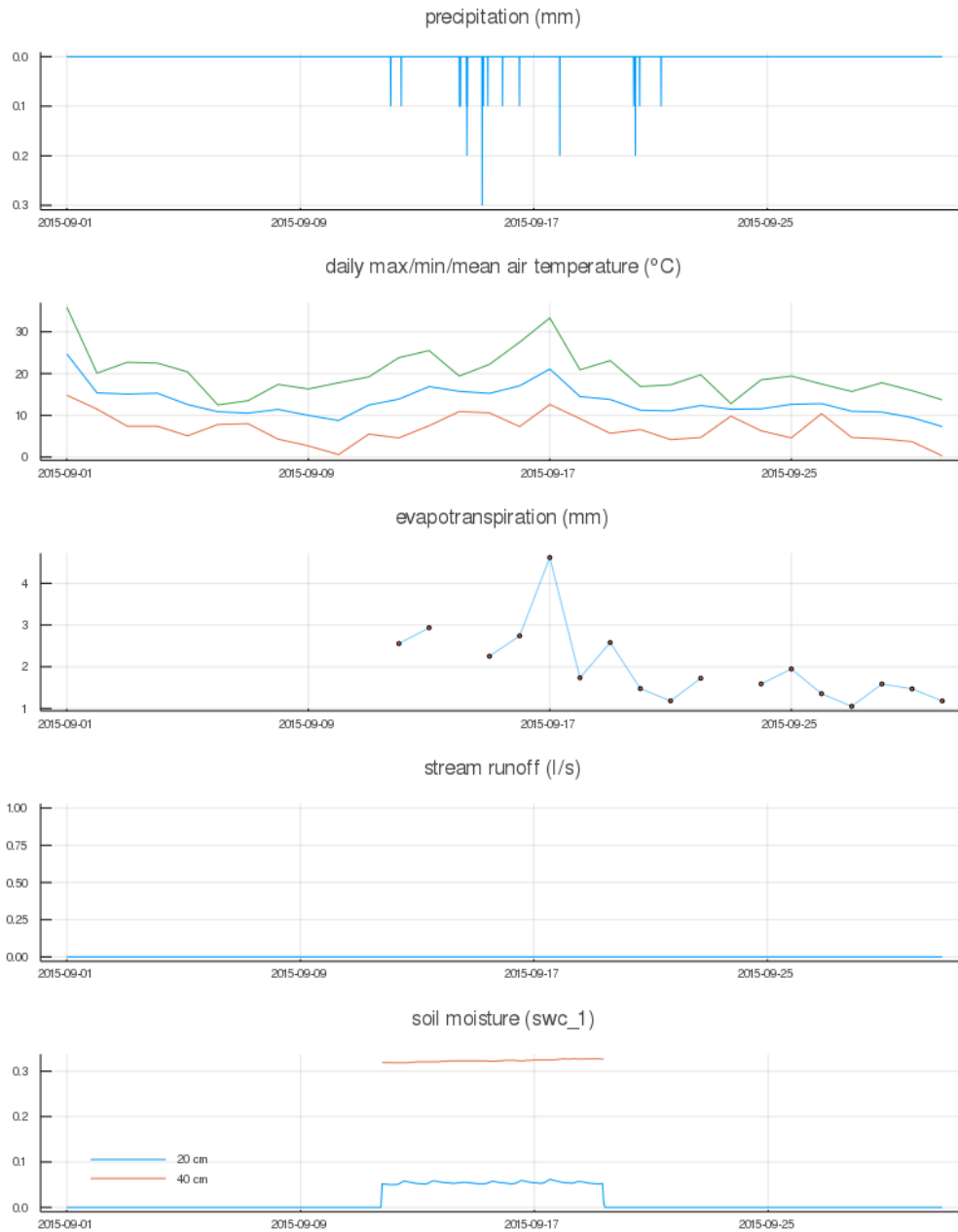


## 2.8. August



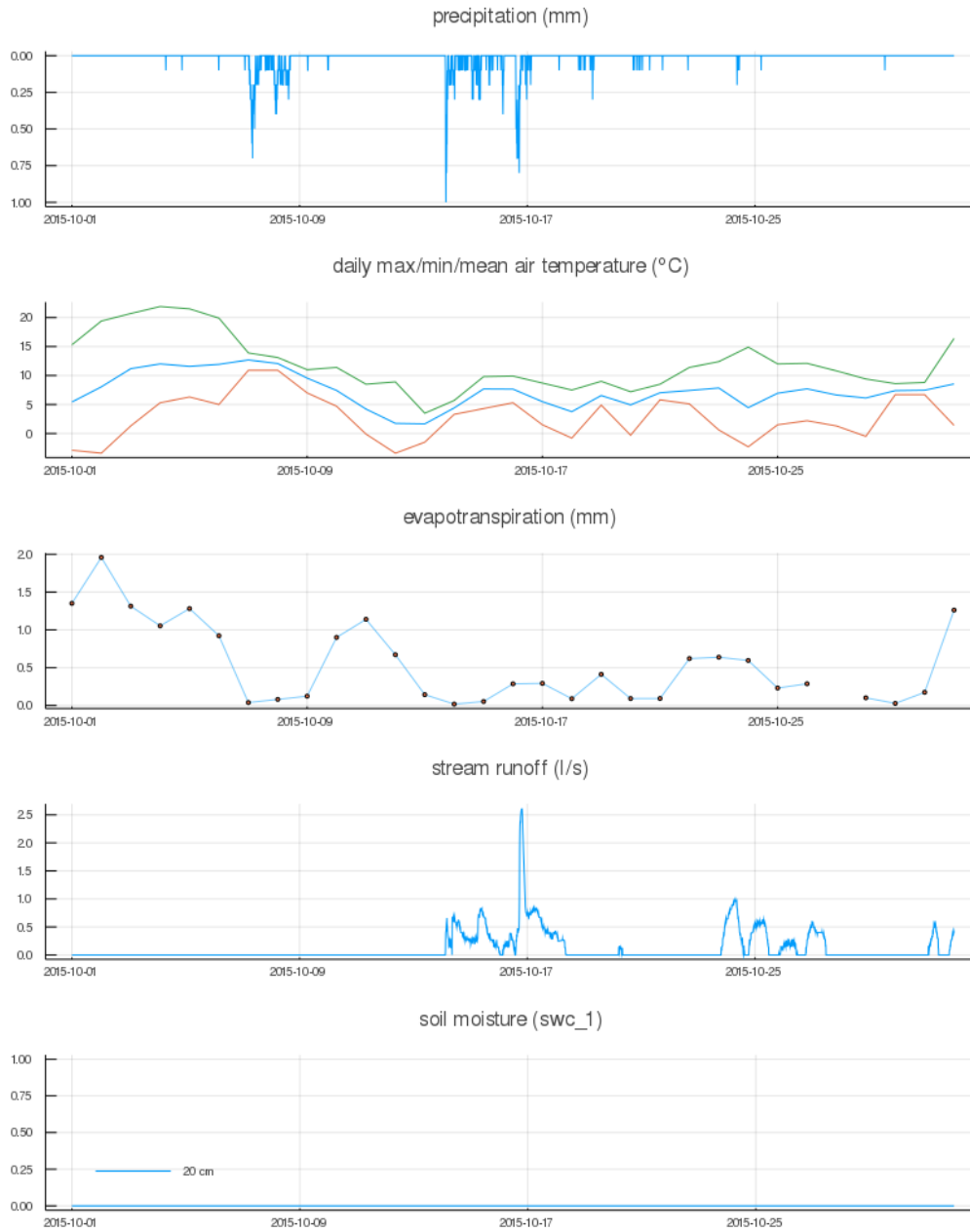
No data is available in this month except temperature. The mean temperature is 21.2 °C. The minimum and maximum temperature are 4.8 °C and 38.1 °C.

## 2.9. September



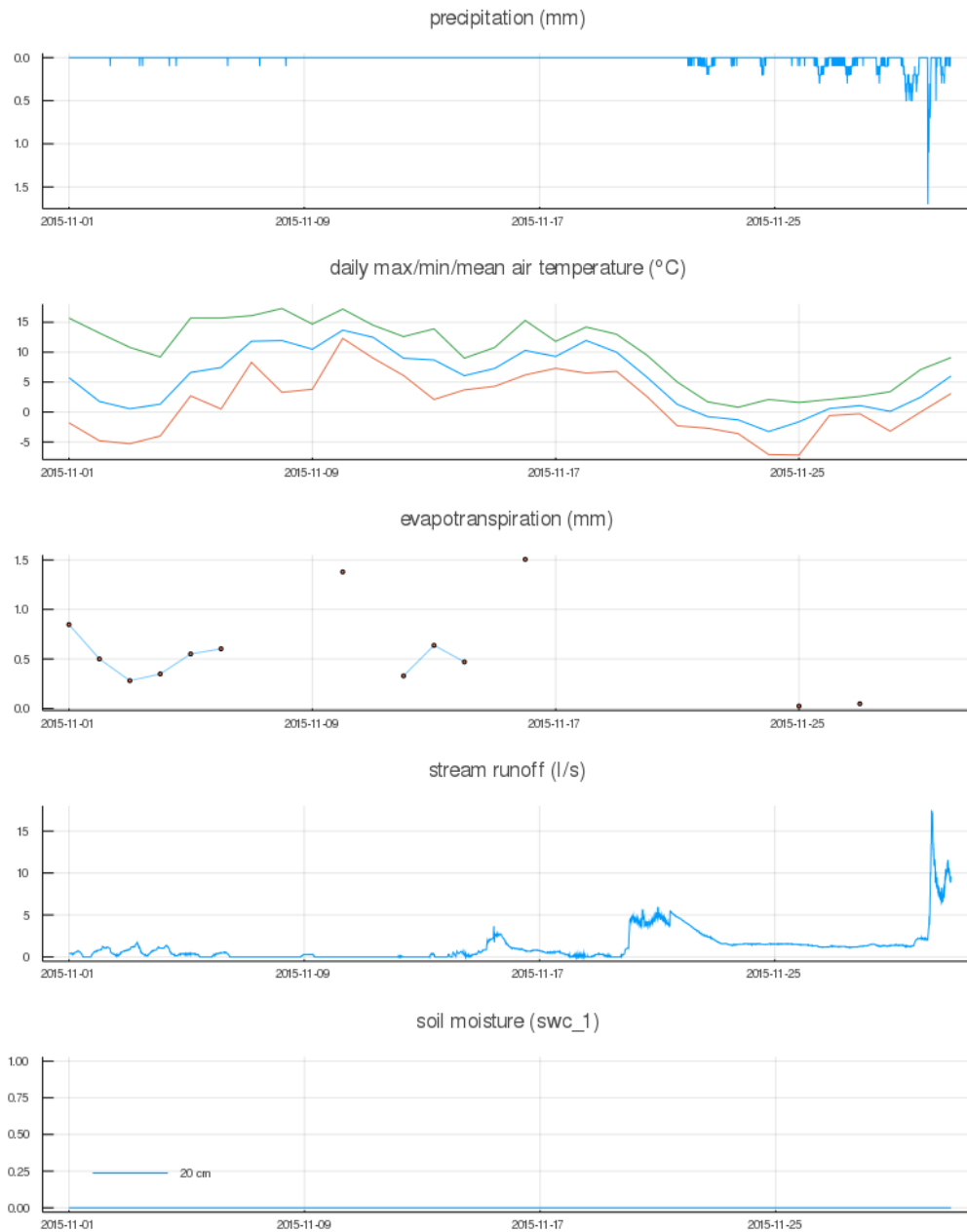
The recorded data includes precipitation (partially recorded), temperature, reference evapotranspiration (partially recorded), and soil water content at 2 depths (partially recorded). The average precipitation is about 0.0006 mm, the maximum precipitation is 0.3 mm. The mean temperature is 13.2 °C. The minimum and maximum temperature are 0.3 °C and 35.9 °C. The reference evapotranspiration was recorded partially in the month. The mean value among the recorded days is 2.00 mm. The soil moisture was recorded only partially in the month (The value stayed stable, however the values in 20 cm depth is too low to be reliable).

## 2.10. October



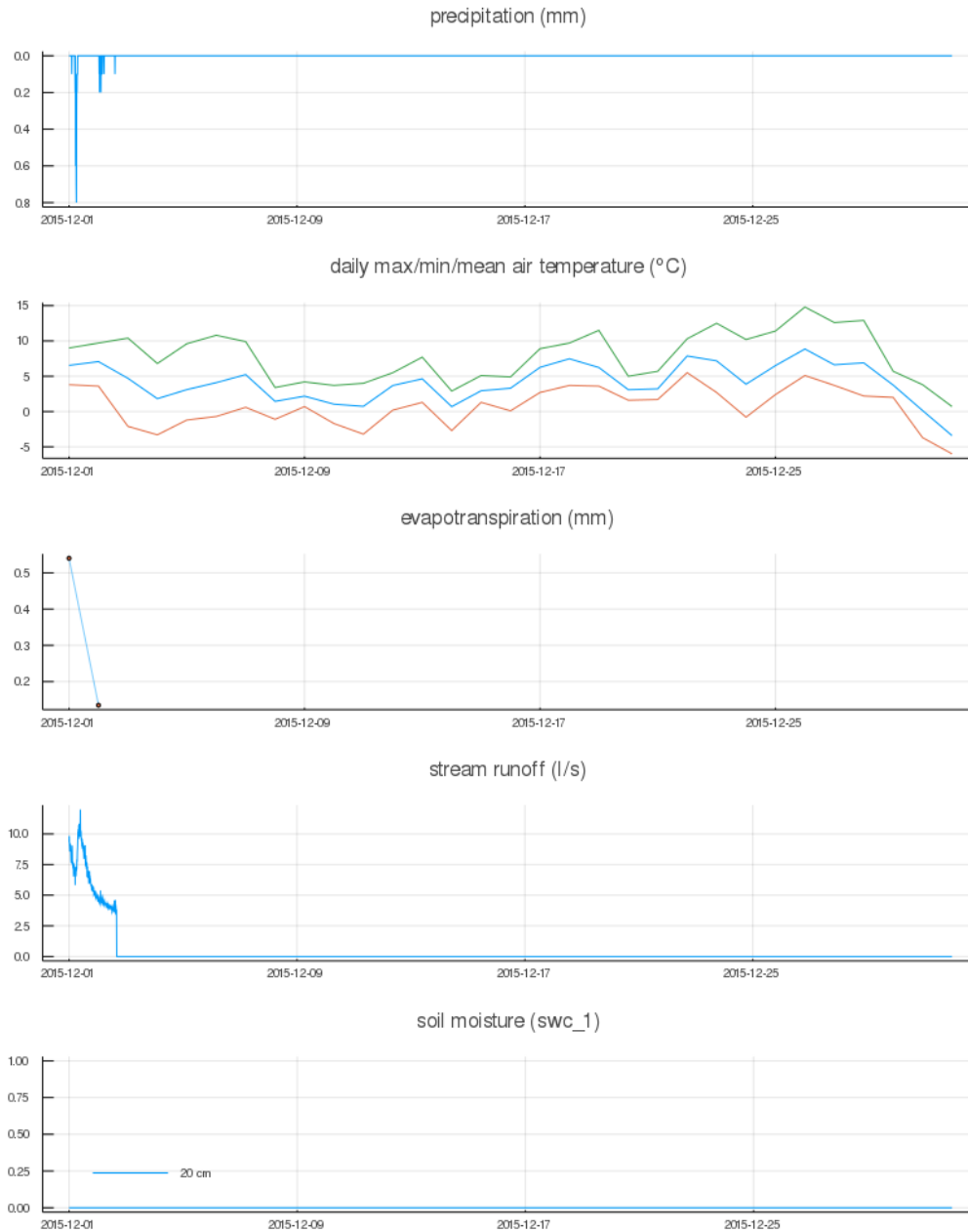
The recorded data includes precipitation, temperature, reference evapotranspiration, stream discharge at the outlet. The average precipitation is about 0.014 mm, the maximum precipitation is 1.0 mm. The mean temperature is 7.3 °C. The minimum and maximum temperature are -3.4 °C and 21.9 °C. The reference evapotranspiration was recorded for most of the month with the mean value of 0.54 mm. The mean stream discharge was recorded as 0.11 l/s. There was a measurement error with soil moisture sensors.

## 2.11. November



The recorded data includes precipitation, temperature, reference evapotranspiration, stream discharge at the outlet. The average precipitation is about 0.016 mm, the maximum precipitation is 1.7 mm (in the end of the month). The mean temperature is 5.6 °C. The minimum and maximum temperature are -7.2 °C and 17.3 °C. The reference evapotranspiration was recorded for the beginning of the month with the mean value of 0.58 mm. The mean stream discharge was recorded as 0.11 l/s and the peak flow was 17.49 l/s. There was a measurement error with soil moisture sensors.

## 2.12. December



Precipitation, reference evapotranspiration, and stream discharge at the outlet only has available data for a few days at the beginning of the month. The average precipitation is about 0.001 mm, the maximum precipitation is 0.8 mm (in the end of the month). The reference evapotranspiration was recorded for the beginning of the month with the mean value of 0.33 mm. The mean stream discharge was recorded as 0.33 l/s and the peak flow was 11.98 l/s. There was a measurement error with soil moisture sensors. Temperature data was completely recorded. The mean temperature is 4.1 °C. The minimum and maximum temperature are -6.0 °C and 14.8 °C.