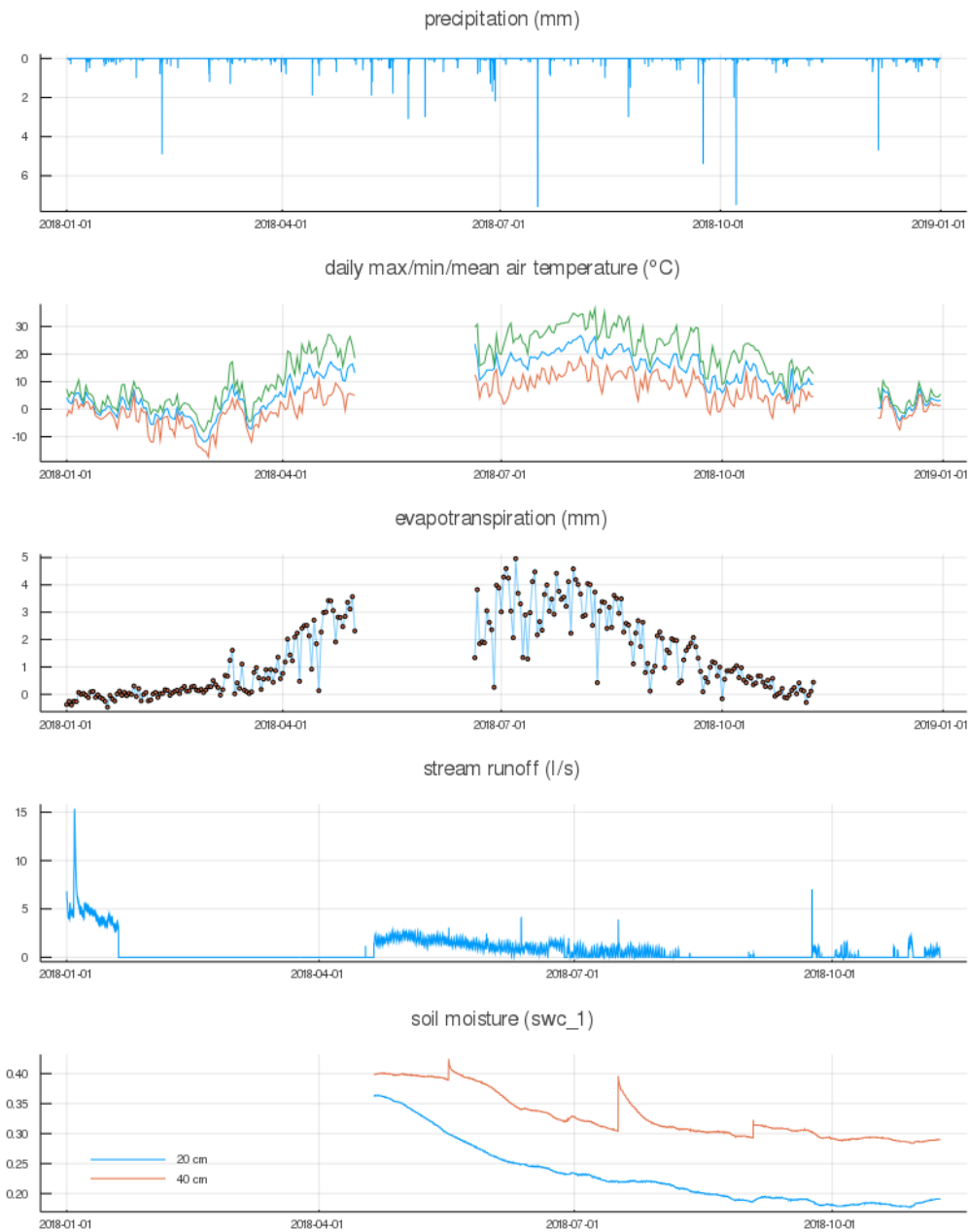


Data description for Nučice catchment 2018

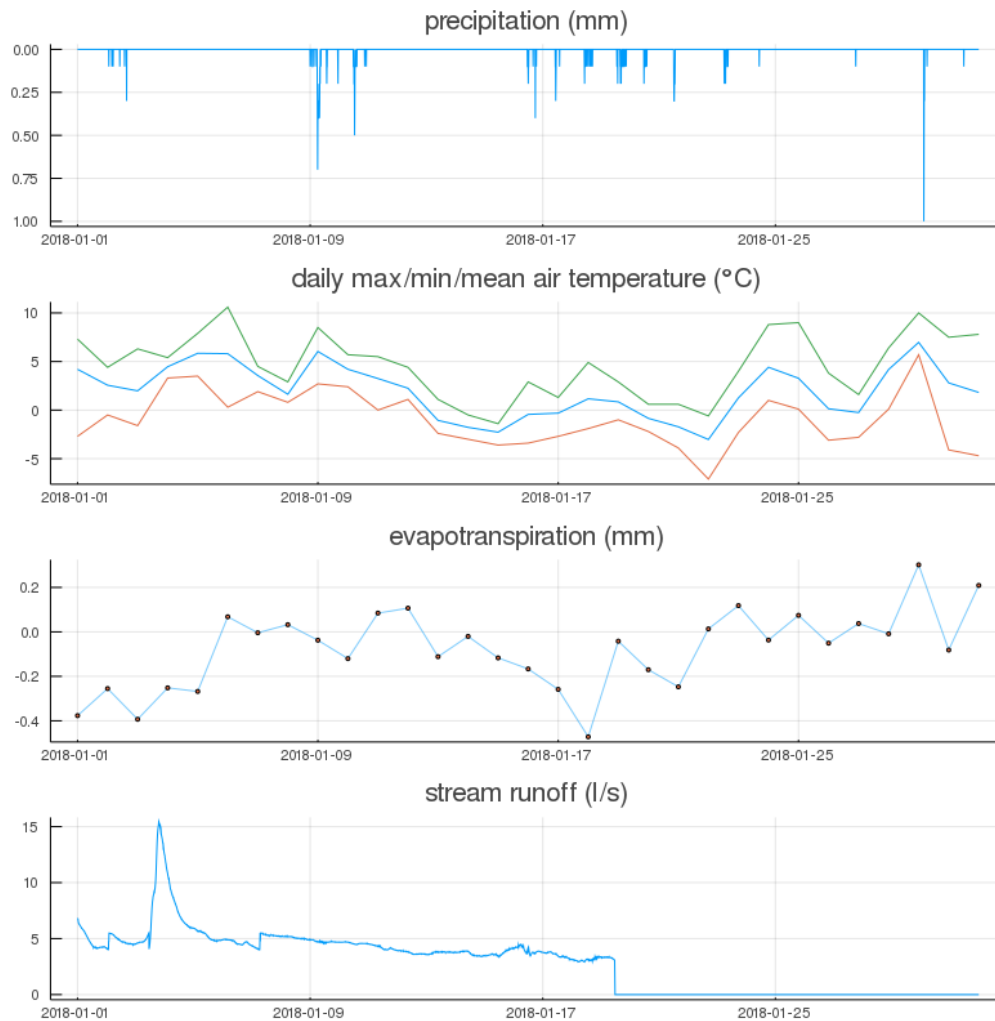
1. Summary



Precipitation, temperature, and stream discharge were measured for most of the year. The highest precipitation is 7.6 mm (in July) and the largest discharge is 15.36 l/s (in January). The lowest/highest temperature were -17.4 °C (in March) and 36.5 °C (in August), respectively.

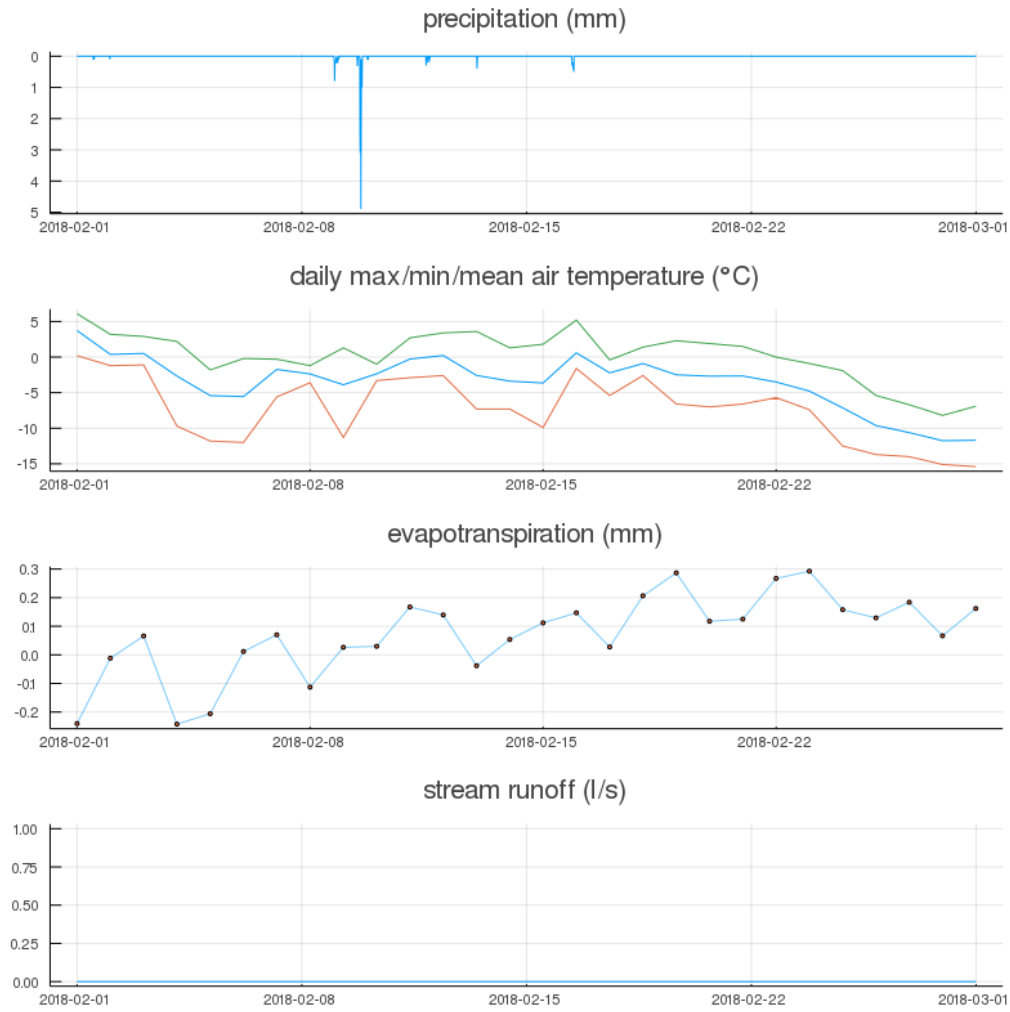
2. Monthly analysis

2.1. January



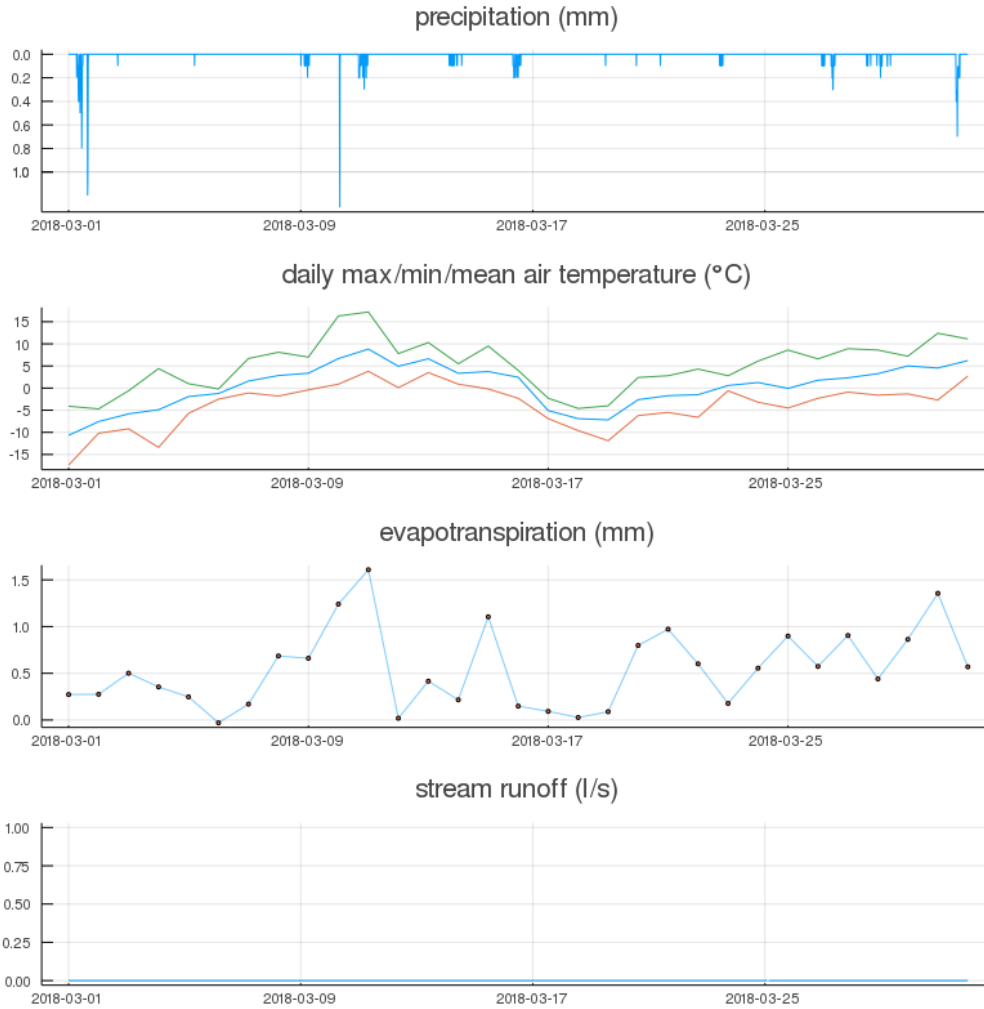
The recorded data includes precipitation, temperature, reference evapotranspiration, stream discharge at the outlet. The average precipitation is about 0.005 mm, the maximum precipitation is 1.0 mm. The mean temperature is 1.9 °C. The minimum and maximum temperature are -7.1 °C and 10.6 °C. The reference evapotranspiration was recorded for most of the month with the mean value of -0.08 mm. A peak flow with rate of 15.36 l/s was recorded after a small rainfall event (either the measurement errors of precipitation or discharge or the results of snow melting). No discharge was measured in the second half of the month (measurement error).

2.2. February



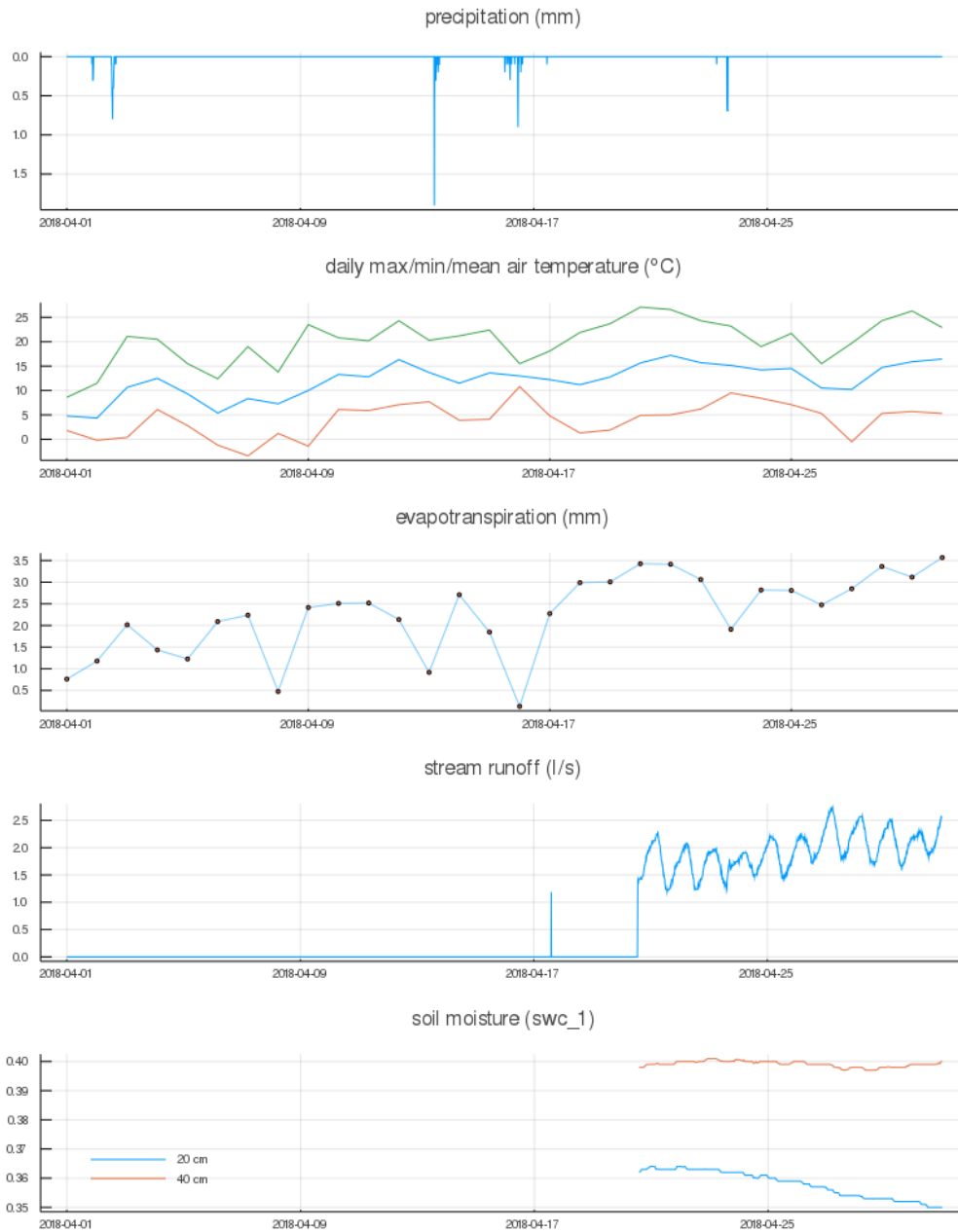
The recorded data includes precipitation, temperature, reference evapotranspiration, stream discharge at the outlet. The average precipitation is about 0.007 mm, the maximum precipitation is 4.9 mm. The mean temperature is -3.5 °C. The minimum and maximum temperature are -15.4 °C and 6.1 °C. The reference evapotranspiration was recorded for most of the month with the mean value of 0.07 mm. No discharge was measured in the month (measurement error).

2.3. March



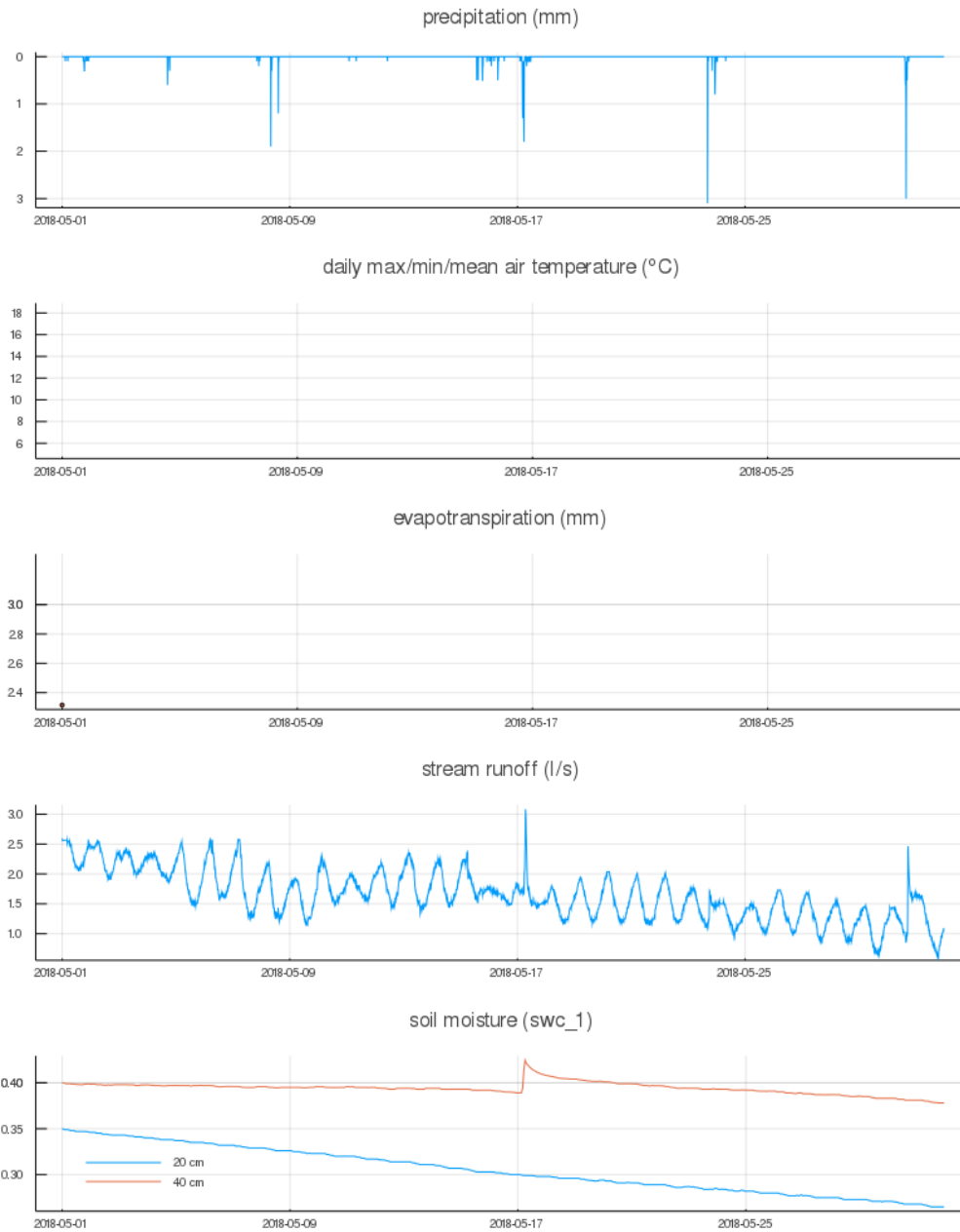
The recorded data includes precipitation, temperature, reference evapotranspiration, stream discharge at the outlet. The average precipitation is about 0.007 mm, the maximum precipitation is 1.3 mm. The mean temperature is 0.40 °C. The minimum and maximum temperature are -17.4 °C and 17.2 °C. The reference evapotranspiration was recorded for most of the month with the mean value of 0.54 mm. No discharge was measured in the month (measurement error).

2.4. April



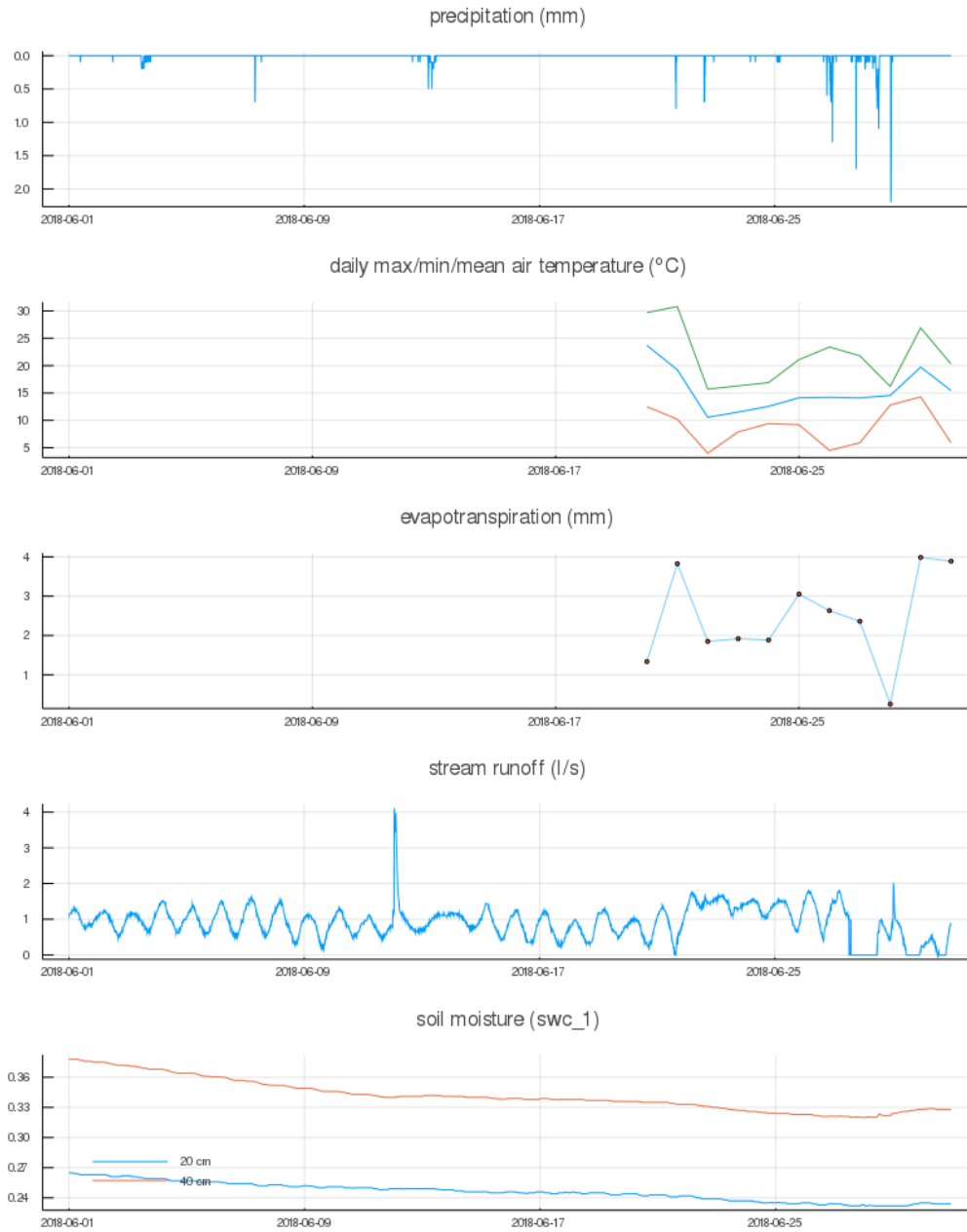
The recorded data includes precipitation, temperature, reference evapotranspiration, stream discharge at the outlet, and soil water content at 2 depths. The average precipitation is about 0.004 mm, the maximum precipitation is 1.9 mm. The mean temperature is 12.1 °C. The minimum and maximum temperature are -3.4 °C and 27.1 °C. The reference evapotranspiration was recorded partially in the month. The mean value among the recorded days is 2.25 mm. The stream had runoff recorded only in the second half of the month. Soil moisture was also recorded only in the second half of the month. There was decline trend of soil water content at the depth of 20 cm.

2.5. May



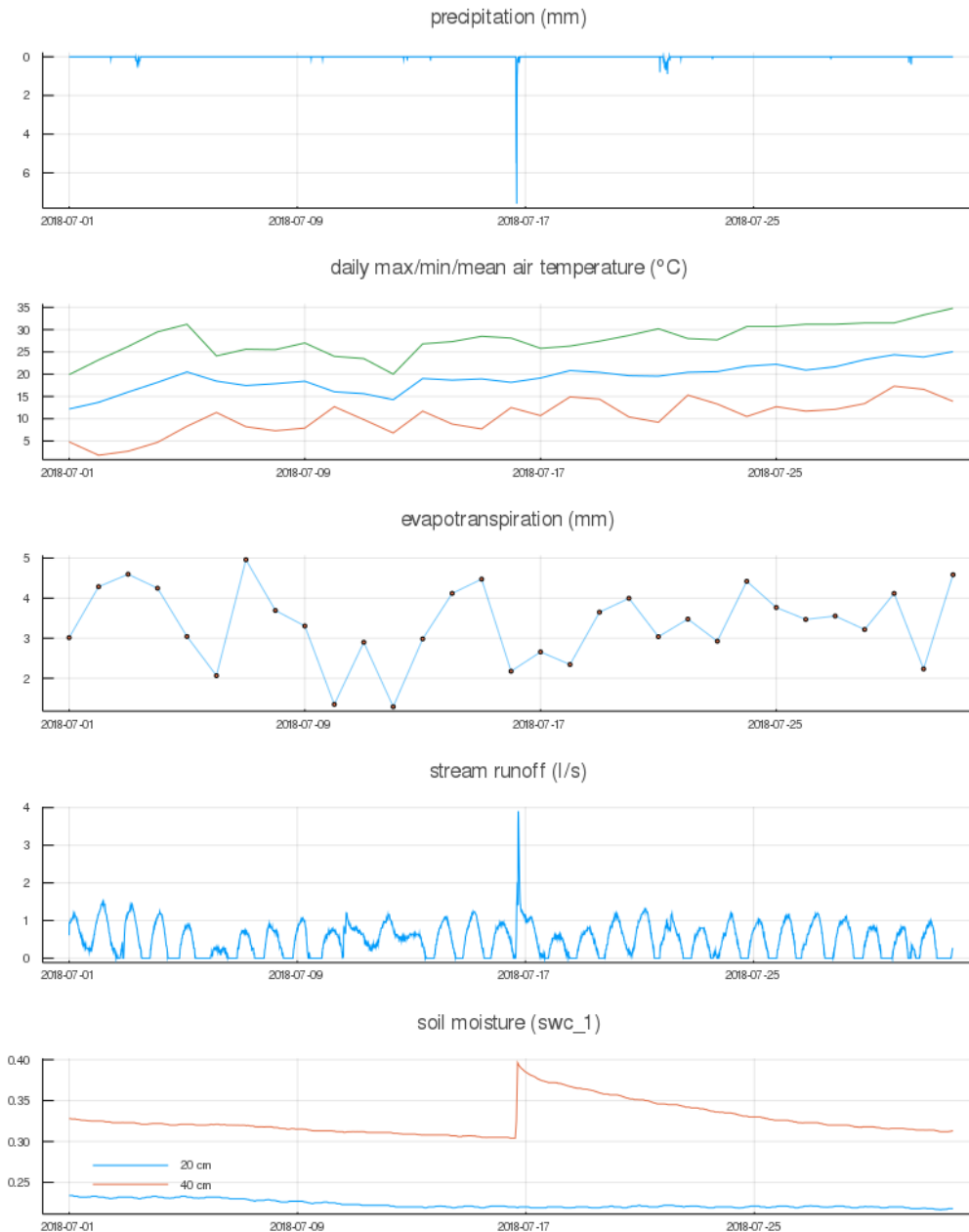
The recorded data includes precipitation, temperature, reference evapotranspiration, stream discharge at the outlet, and soil water content at 2 depths. The average precipitation is about 0.009 mm, the maximum precipitation is 3.1 mm. Temperature was only recorded for one day. The mean temperature is 13.1 °C. The minimum and maximum temperature are 5.0 °C and 18.5 °C. The reference evapotranspiration was only recorded one day in the month with the value of 2.31 mm. The stream had diurnal fluctuation with the amplitude of 0.5 l/s. There was decline trend of soil water content at the depth of 20 cm.

2.6. June



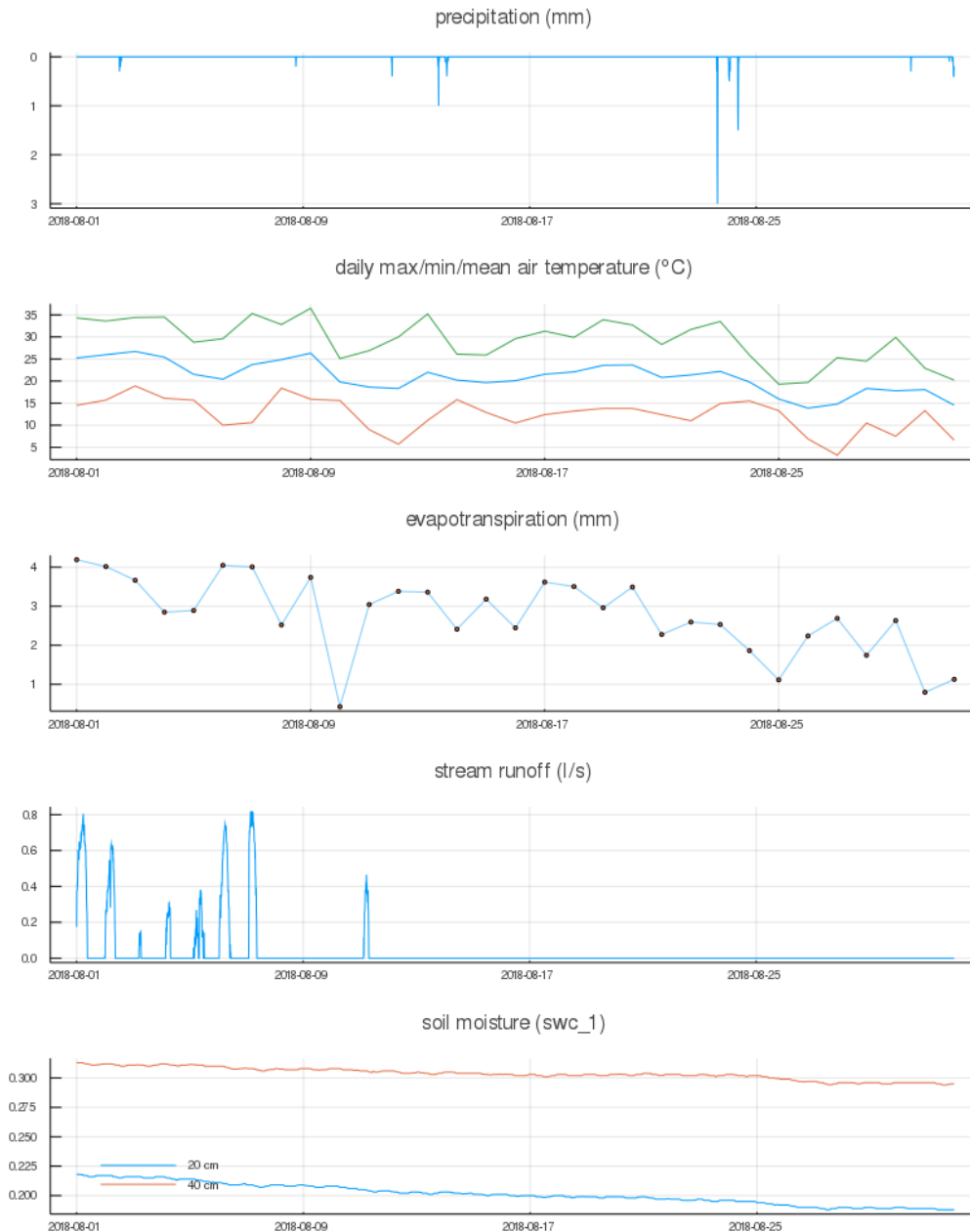
The recorded data includes precipitation, temperature, reference evapotranspiration, stream discharge at the outlet, and soil water content at 2 depths. The average precipitation is about 0.009 mm, the maximum precipitation is 2.2 mm. Temperature was only recorded for the end of the month. The mean temperature is 15.4 °C. The minimum and maximum temperature are 4.0 °C and 30.8 °C. The reference evapotranspiration was only recorded for the end of the month with the value of 2.45 mm. The stream had diurnal fluctuation with the amplitude of 0.5 l/s. There was decline trend of soil water content at both depths.

2.7. July



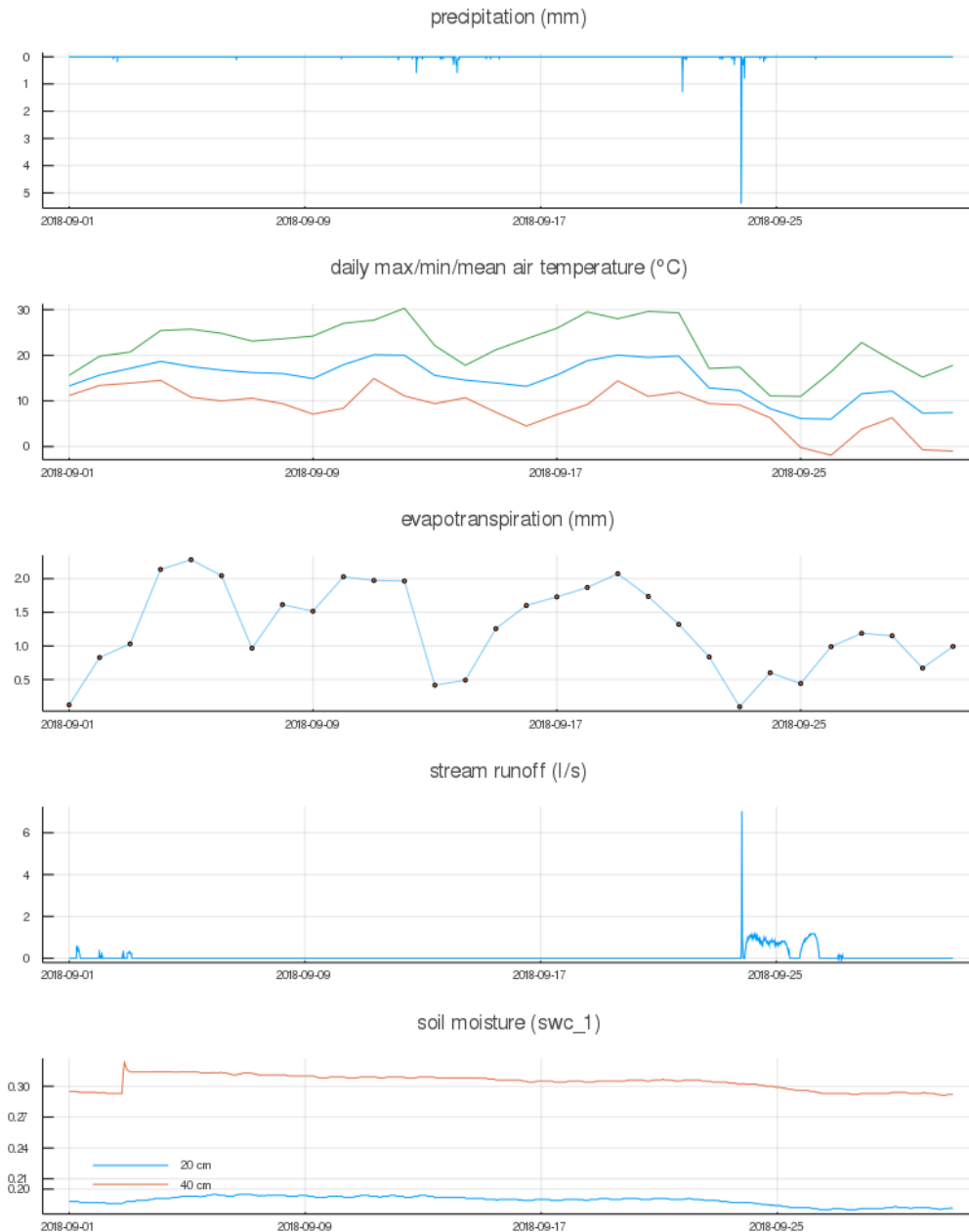
The recorded data includes precipitation, temperature, reference evapotranspiration, stream discharge at the outlet, and soil water content at 2 depths. The average precipitation is about 0.010 mm, the maximum precipitation is 7.6 mm. The mean temperature is 19.2 °C. The minimum and maximum temperature are 1.8 °C and 34.8 °C. The mean reference evapotranspiration rate was 3.35 mm. The stream had diurnal fluctuation with the amplitude of 0.5 l/s. The peak flow was recorded as 3.91 l/s after a heavy rainfall event. Meanwhile the soil water content at 40 cm showed a dramatic increase after the heavy rainfall event. However, there was no clear changes in the soil water content at the depth of 20 cm (Possibly errors with device).

2.8. August



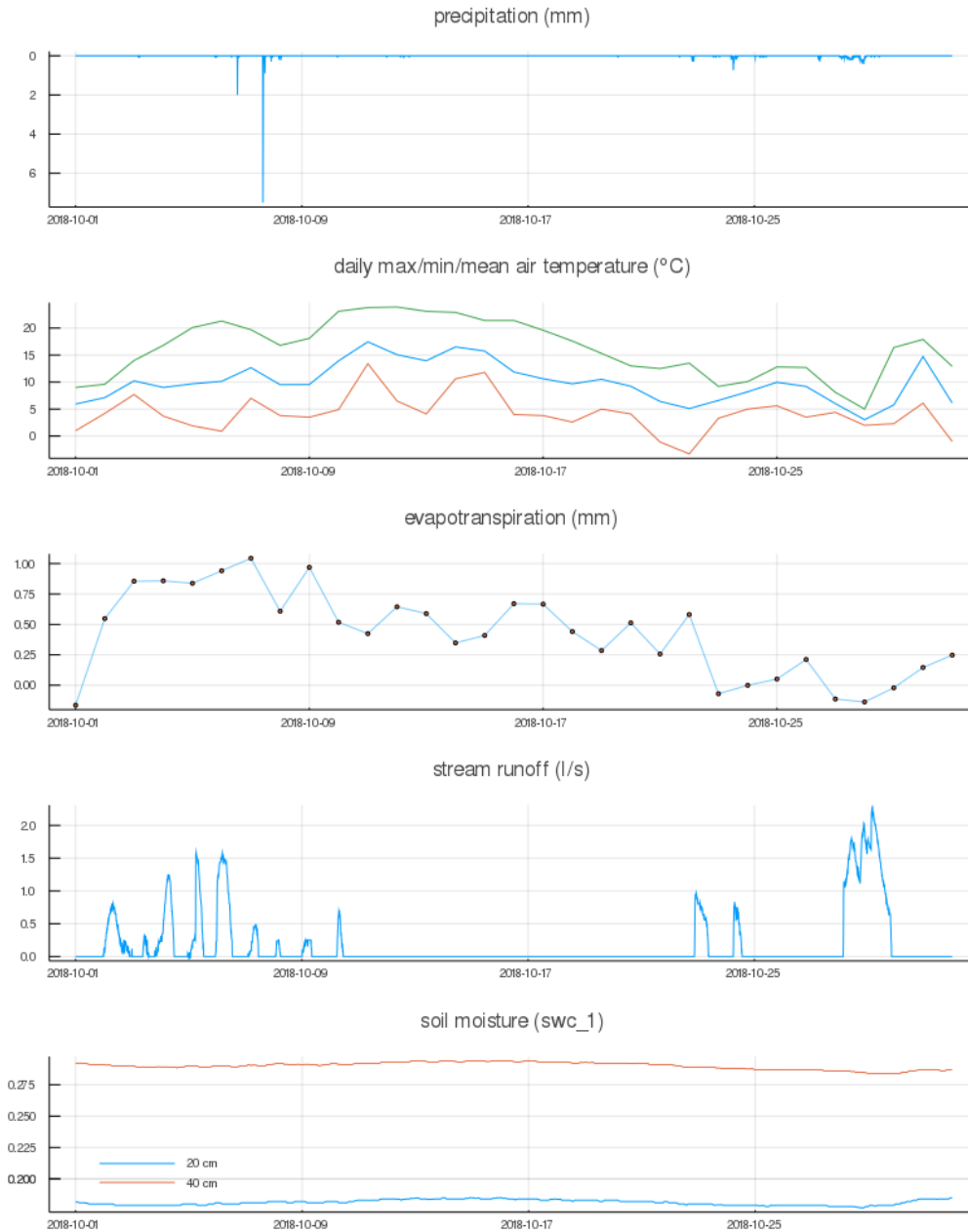
The recorded data includes precipitation, temperature, reference evapotranspiration, stream discharge at the outlet, and soil water content at 2 depths. The average precipitation is about 0.005 mm, the maximum precipitation is 3.0 mm. The mean temperature is 20.9 °C. The minimum and maximum temperature are 3.2 °C and 36.5 °C. The mean reference evapotranspiration rate was 2.75 mm. The stream flow was fluctuating diurnally at the beginning of the month. However, there was no runoff after rainfall events (possibly error with device) . Meanwhile the soil water content at both depths showed a decline trend even though there were rainfall events happened (Possibly errors with device).

2.9. September



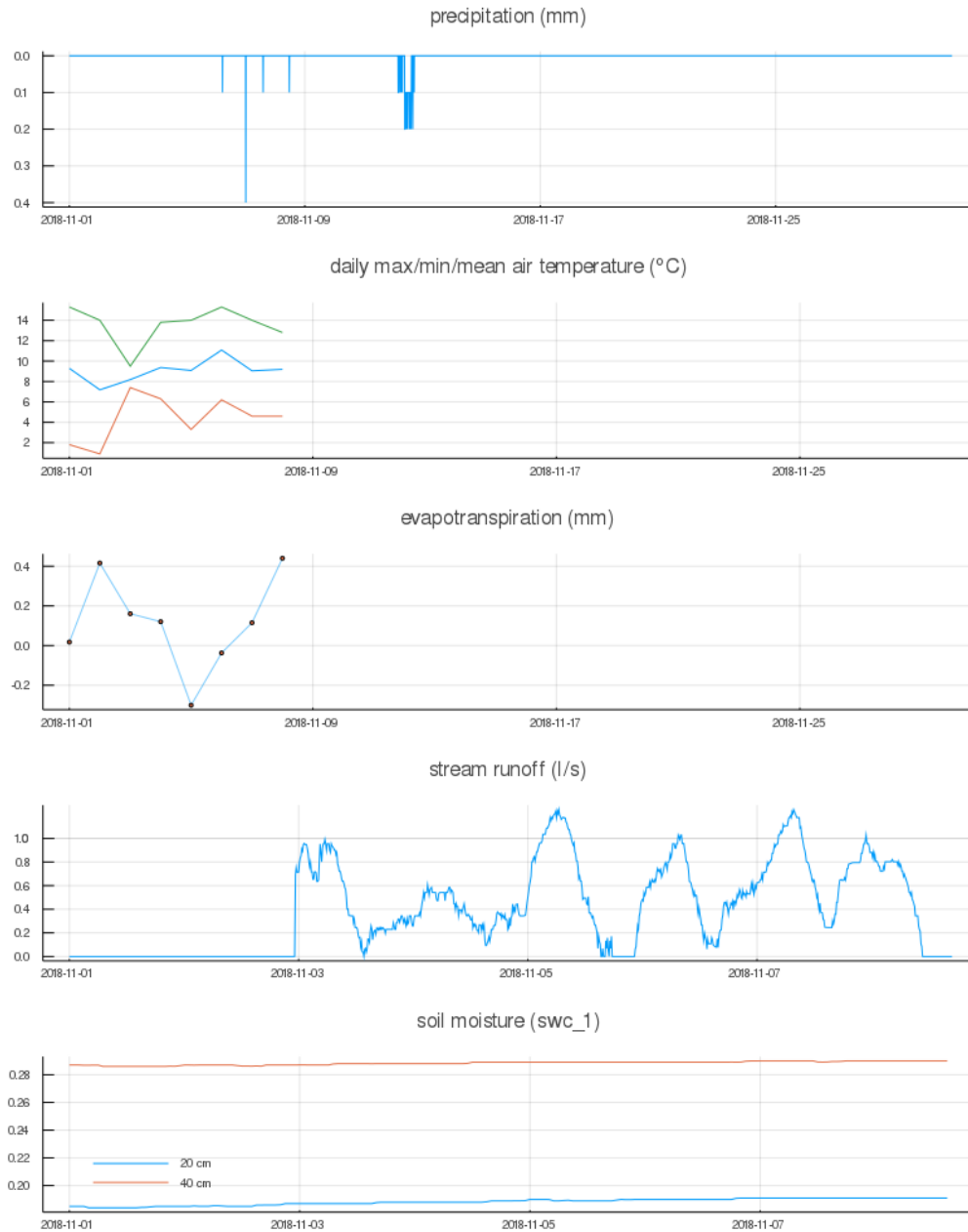
The recorded data includes precipitation, temperature, reference evapotranspiration, stream discharge at the outlet, and soil water content at 2 depths. The average precipitation is about 0.006 mm, the maximum precipitation is 5.4 mm. The mean temperature is 14.6 °C. The minimum and maximum temperature are -1.9 °C and 30.3 °C. The mean reference evapotranspiration rate was 1.27 mm. The stream had almost on flow for the most of the days. There were some peaks occurred after a few heavy rainfall events. Meanwhile the soil water content at both depths only showed a small increase after a small rainfall event and then a steady decline trend even though there were rainfall events happened (Possibly errors with device).

2.10. October



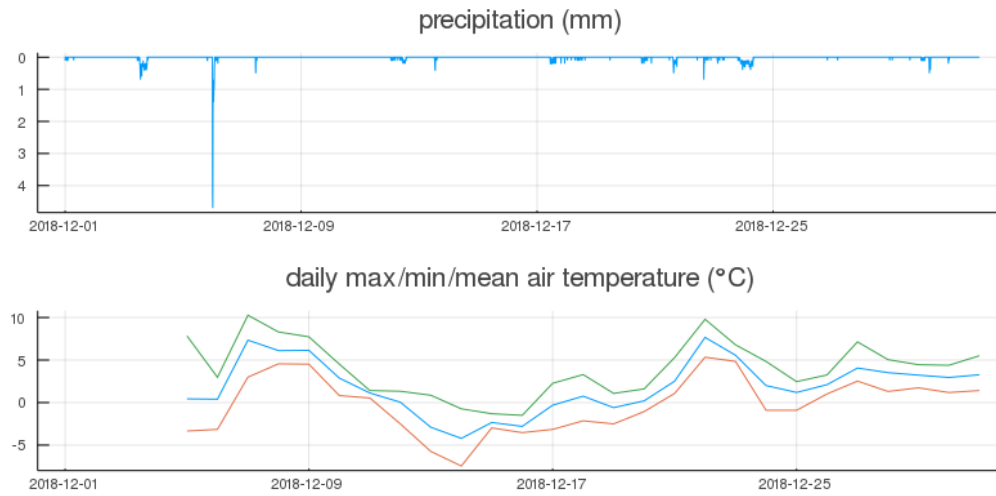
The recorded data includes precipitation, temperature, reference evapotranspiration, stream discharge at the outlet, and soil water content at 2 depths. The average precipitation is about 0.010 mm, the maximum precipitation is 7.5 mm. The mean temperature is 10.0 °C. The minimum and maximum temperature are -3.3 °C and 23.9 °C. The mean reference evapotranspiration rate was 0.42 mm. The stream had almost on flow for the most of the days. There were some small peaks occurred after a small rainfall events. Meanwhile the soil water content at both depths only showed a steady statue even though there were rainfall events happened (Possibly errors with device).

2.11. November



The recorded data includes precipitation, temperature, reference evapotranspiration, stream discharge at the outlet, and soil water content at 2 depths. The average precipitation is about 0.0015 mm, the maximum precipitation is 0.4 mm. The mean temperature is 8.5 °C. The minimum and maximum temperature are 0.9 °C and 15.3 °C. The mean reference evapotranspiration rate was 0.11 mm. The stream had almost on flow for the most of the days. There were some small peaks occurred even no rainfall events happened (Possibly errors with precipitation). Meanwhile the soil water content at both depths only showed a steady statue even though there were rainfall events happened (Possibly errors with device).

2.12. December



The recorded data includes precipitation, temperature. The average precipitation is about 0.015 mm, the maximum precipitation is 4.7 mm. The mean temperature is 1.84 °C. The minimum and maximum temperature are -7.5 °C and 10.3 °C.