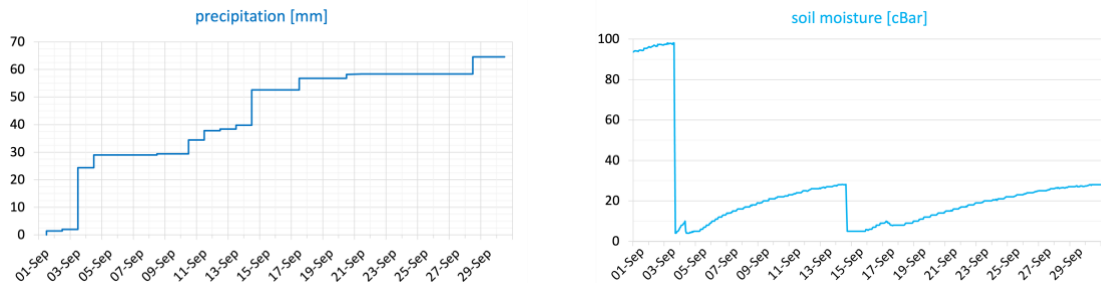


## OffWeather review of September 2025

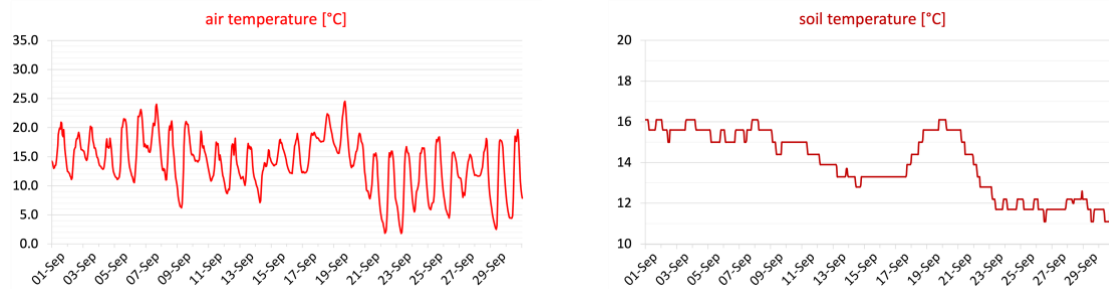
### Precipitation & Soil moisture:

Finally, after a very dry spring and summer *Meteorological Autumn*, which started on 1<sup>st</sup> September, delivered some useful rainfall with 22 mm falling on the 3rd, as may be seen on the precipitation chart, below left. The adjacent soil moisture chart shows the partial vacuum created in the soil by plants drawing moisture in through their roots (known as plant transpiration), which increases as more moisture taken. This partial vacuum is measured by a special sensor, installed in the soil 25 cm deep, in *centibars* (cBar) ranging from 0 (saturated) to 200 (desiccated). Irrigating the soil replaces this partial vacuum with moisture. The soil moisture chart shows the soil to be very dry at the beginning of the month, dropping rapidly due to the heavy rainfall on the 3rd, rising as moisture is lost through transpiration (and to a degree surface evaporation), but lowering again from the rain falling on the 14th and less so on the 17th.



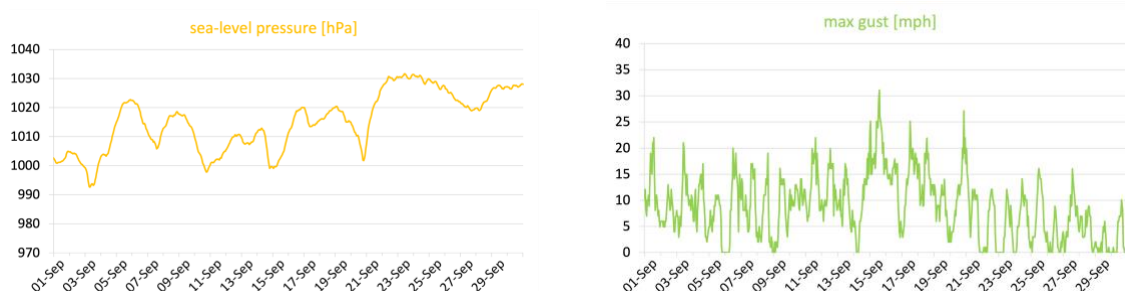
### Air & Soil temperature:

The mean air temperature was 14.3°C, being 0.6°C above the area's average but 0.3°C below that of last September. There were no air frosts but 5 ground frosts. The maximum temperature at this site was 24.8°C on the 19th. The soil temperature (also measured at a depth of 25 cm) follows the air temperature but a few degrees lower. The lowering in soil temperature is also affected by the reduction in day length (fewer sunshine hours). Furthermore, the colder nights around the 21s and 22nd show a marked fall in soil temperature of four degrees.



### Atmospheric pressure & Windspeeds:

The pressure averaged 1015 hPa. The maximum pressure was 1031 hPa with a minimum of 996 hPa. The pressure rose gradually through the month. Variable winds were very breezy at times with a maximum gust of 31 mph on the 15th.



### Sunshine hours & UV Index:

There were 147 hrs of sunshine, which is 105% of the average. This was 49 hours more than last year. There were 0 day(s) when no sunshine was recorded. The UV Index reduces as the sun does not rise so high in the sky since the longest day.

