**Climate Watch (Serial No.: 20240916–38)** 

Initial/Updated/Final

Topic: temperature, precipitation

Organization issuing

the statement: SEEVCCC

<u>Issued</u>/ Amended /

16-9-2024 16:00

Cancelled

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Valid from – to: 16-9-2024 – 30-11-2024 Next amendment: 23-9-2024

Region of concern: Ukraine, Balkans, South Caucasus, Turkey, Romania

"Within the first week (16 to 22 September 2024), ECMWF monthly forecast predicts above normal mean weekly air temperature, with anomaly up to  $+3^{\circ}$ C in southern Ukraine as well as in the area of the Aegean Sea, and up to  $+6^{\circ}$ C in central and northern Ukraine. Probability for exceeding upper tercile (top third of the highest temperature) is above 90%. Below normal mean weekly air temperature, with anomaly up to  $-3^{\circ}$ C, is expected in almost the entire Balkans, South Caucasus, eastern Turkey and most of the Middle East. Probability for exceeding lower tercile (bottom third of the lowest temperature) is around 90%. Precipitation surplus is forecasted for the western and southern Balkans, eastern Turkey and South Caucasus, with up to 90% probability for exceeding upper tercile (top third of the highest precipitation). Precipitation deficit is predicted for Carpathian region and most of Ukraine, with probability for exceeding lower tercile (bottom third of the lowest precipitation) around 80% in the Carpathians and above 90% in Ukraine. "

## **Monitoring**

During the period from 8 to 14 September 2024, weekly precipitation sums were up to 50 mm in most of Romania, western and southwestern Ukraine, northern and parts of eastern and central Balkans, as well as some locations in northern and southwestern Turkey. Precipitation sums up to 75 mm were registered in most of Serbia, Moldova and Bosnia and Herzegovina. In central Moldova precipitation totals were even up to 100 mm, while they were in a range from 100 up to 300 mm in the parts of western, southwestern and central Balkans.

#### Outlook

Within the first week (16 to 22 September 2024), ECMWF monthly forecast predicts above normal mean weekly air temperature, with anomaly up to +3°C in southern Ukraine as well as in the area of the Aegean Sea, and up to +6°C in central and northern Ukraine. Probability for exceeding upper tercile (top third of the highest temperature) is above 90%. Below normal mean weekly air temperature, with anomaly up to -3°C, is expected in almost the entire Balkans, South Caucasus, eastern Turkey and most of the Middle East. Probability for exceeding lower tercile (bottom third of the lowest temperature) is around 90%. Precipitation surplus is forecasted for the western and southern Balkans, eastern Turkey and South Caucasus, with up to 90% probability for exceeding upper tercile (top third of the highest precipitation). Precipitation deficit is predicted for Carpathian region and most of Ukraine, with probability for exceeding lower tercile (bottom third of the lowest precipitation) around 80% in the Carpathians and above 90% in Ukraine.

During the second week (23 to 29 September 2024), above average mean weekly air temperature, with anomaly up to +3°C is expected in western Turkey, most of Ukraine, Moldova, most of Romania, most of Bulgaria, in the area of the Aegean Sea, Cyprus and most of the Middle East. Probability for exceeding upper tercile (top third of the highest temperature) is in a range from around 60% in Romania and western Ukraine and Turkey, up to 90% in the area of the Aegean Sea. Precipitation surplus is expected in the southwestern Balkans and in the area of the Adriatic Sea, with around 60% probability for exceeding upper tercile (top third of the highest precipitation).

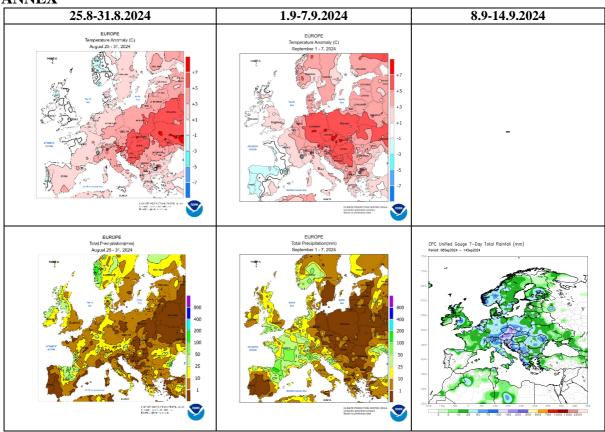
During the following three months (September, October and November), seasonal forecast predicts above average seasonal air temperature in the northwestern and part of central Balkans, central Romania and western Ukraine. Below average mean seasonal air temperature is expected in parts of southeastern and central Turkey, Jordan and most of Israel and Syria. Precipitation surplus is expected in the Carpathians, northern Turkey and eastern and westernmost Georgia. Precipitation deficit is forecasted for rest of the region.

# **Update**

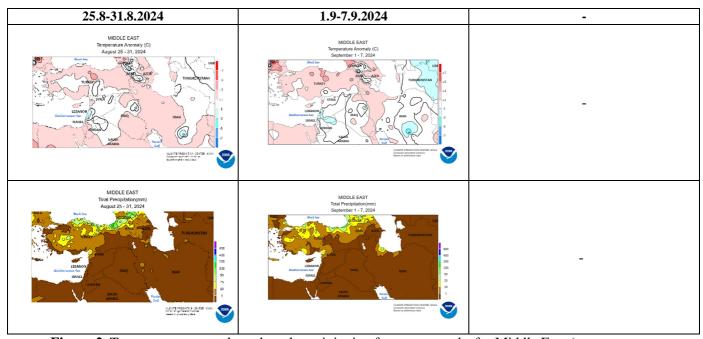
An updated statement will be issued on 23-9-2024

For further information, please contact <a href="mailto:cws-seevccc@hidmet.gov.rs">cws-seevccc@hidmet.gov.rs</a>

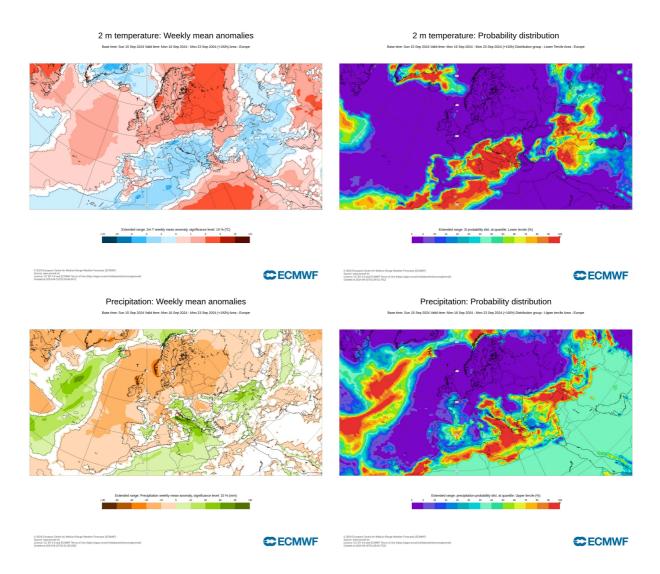
# **ANNEX**



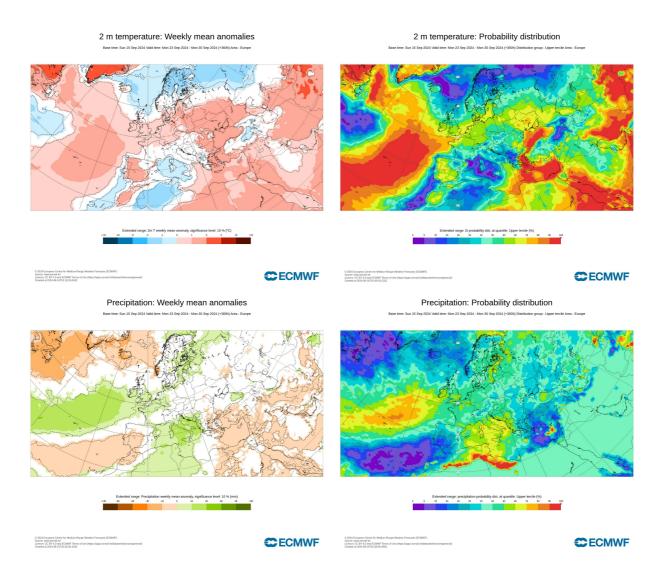
**Figure 1.** Temperature anomaly and total precipitation for recent weeks (source: Climate Prediction Center, USA)



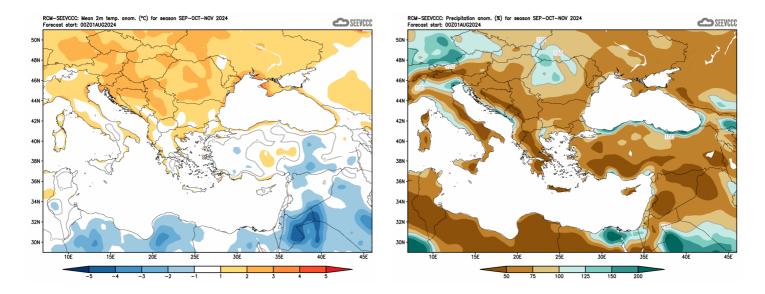
**Figure 2.** Temperature anomaly and total precipitation for recent weeks for Middle East (source: Climate Prediction Center)



**Figure 3.** Outlook for the temperature anomalies and probability for the lower tercile (upper row), along with the precipitation surplus/deficit and probability for the upper tercile (lower row) for the 16.9–22.9.2024 period (source: European Centre for Medium-Range Weather Forecasts)



**Figure 4.** Outlook for the temperature anomalies and probability for the upper tercile (upper row), along with the precipitation surplus/deficit and probability for the upper tercile (lower row) for the 23.9–29.9.2024 period (source: European Centre for Medium-Range Weather Forecasts)



**Figure 5.** Mean seasonal temperature and precipitation anomaly for the season SON (seasonal outlook from RCM – SEEVCCC)

### **Sources**

- Republic Hydrometeorological Service of Serbia (<u>www.hidmet.gov.rs</u>)
- South East European Virtual Climate Change Center (<u>www.seevccc.rs</u>)
- European Centre for Medium-Range Weather Forecasts (<a href="http://www.ecmwf.int/">http://www.ecmwf.int/</a>)
- Climate Prediction Center USA (<a href="http://www.cpc.ncep.noaa.gov/">http://www.cpc.ncep.noaa.gov/</a>)
- Deutscher Wetterdienst (<a href="http://www.dwd.de">http://www.dwd.de</a>)