

Climate Watch (Serial No.: 20231009–40)

Initial/Updated/Final

Topic: **temperature** and **precipitation**

Organization issuing the statement: SEEVCCC

Issued/ Amended / Cancelled 9-10-2023 16:00 P.M.

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Valid from – to: 9-10-2023 – 31-12-2023 Next amendment: 16-10-2023

Region of concern: **SEE**

„ Within the first week (9 to 15 October 2023), ECMWF monthly forecast predicts above average mean weekly air temperature in most of the Balkans and parts of southern and western Romania, with anomaly up to +6°C. Probability for exceeding upper tercile (top third of the highest temperature) is around 90%. Precipitation deficit is expected in most of the region, with probability for exceeding lower tercile (bottom third of the lowest precipitation) in a range from around 60% in South Caucasus, Ukraine and Moldova up to 90% elsewhere. “

Monitoring

During the period from 1 to 7 October 2023, weekly precipitation sums were in a range from 25 up to 100 mm in northern and eastern Turkey, while in rest of the country as well as northern and southeastern Ukraine they were up to 25 mm. In rest of the region precipitation sums were below 2 mm.

Outlook

Within the first week (9 to 15 October 2023), ECMWF monthly forecast predicts above average mean weekly air temperature in most of the Balkans and parts of southern and western Romania, with anomaly up to +6°C, while in Moldova, southwestern Turkey, western and central Ukraine and most of Greece, temperature anomaly is up to +3°C. Below normal temperature anomaly is expected in most of Turkey, eastern Ukraine and South Caucasus with anomaly up to -3°C. Probability for exceeding upper/lower tercile (top/bottom third of the highest/lowest temperature) is around 90%. Precipitation surplus is expected in some parts of Cyprus and southeastern Turkey, with probability for exceeding upper tercile (top third of the highest precipitation) around 60% in Cyprus and around 90% in Turkey. Precipitation deficit is expected in rest of the region, with probability for exceeding lower tercile (bottom third of the lowest precipitation) in a range from around 60% in South Caucasus, Ukraine and Moldova up to 90% elsewhere.

During the second week (16 to 22 October 2023), above normal mean weekly air temperature, with anomaly up to +3°C, is forecasted for the Balkans, Moldova, Romania, western and northwestern Turkey and southern Ukraine. Probability for exceeding upper tercile (top third of the highest temperature) is around 60%. Precipitation surplus is expected in the western Balkans, Carpathian region and most of Ukraine. Precipitation deficit is predicted for most of Turkey and South Caucasus. Probability for exceeding upper/lower tercile (top/bottom third of the highest/lowest precipitation) is up to 60%.

During the following three months (October, November and December), seasonal forecast predicts above average seasonal air temperature in the western, northern and parts of central and eastern Balkans, most of Romania, western and part of central Ukraine. Below average seasonal air temperature is expected in some locations in Jordan. Precipitation surplus is expected in the Carpathians, along Adriatic coast, coastal part of northern Turkey and eastern Georgia. Precipitation deficit is predicted for western and southern Turkey, Cyprus and most of the Balkans.

Update

An updated statement will be issued on 16-10-2023

For further information, please contact cws-seevccc@hidmet.gov.rs

ANNEX

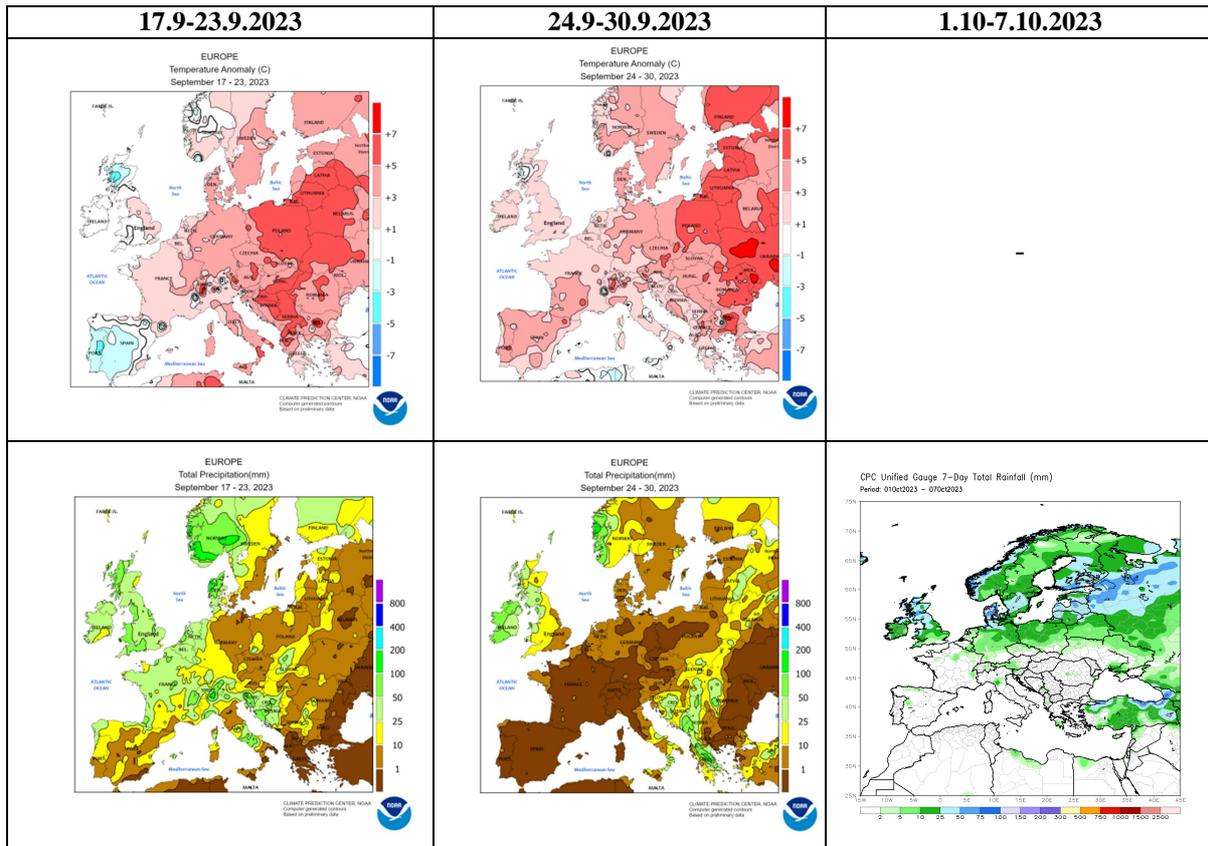


Figure 1. Temperature anomaly and total precipitation for recent weeks (source: Climate Prediction Center, USA)

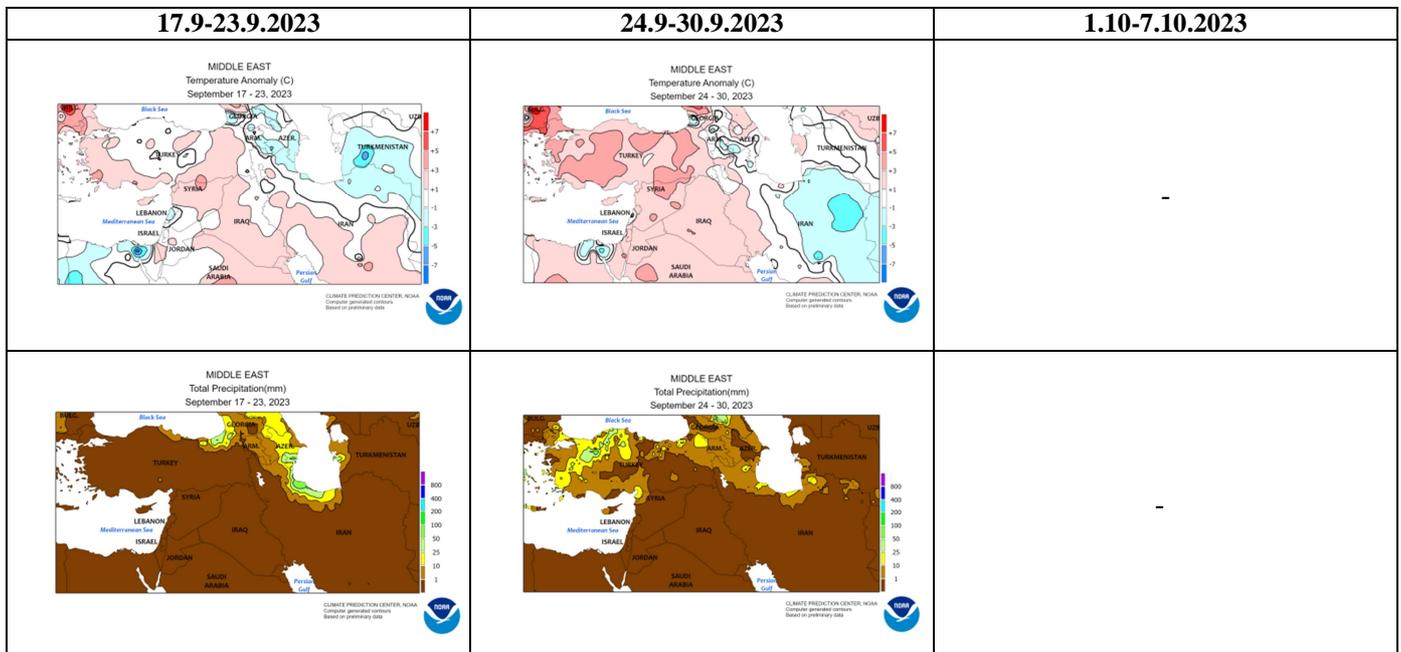


Figure 2. Temperature anomaly and total precipitation for recent weeks for Middle East (source: Climate Prediction Center)

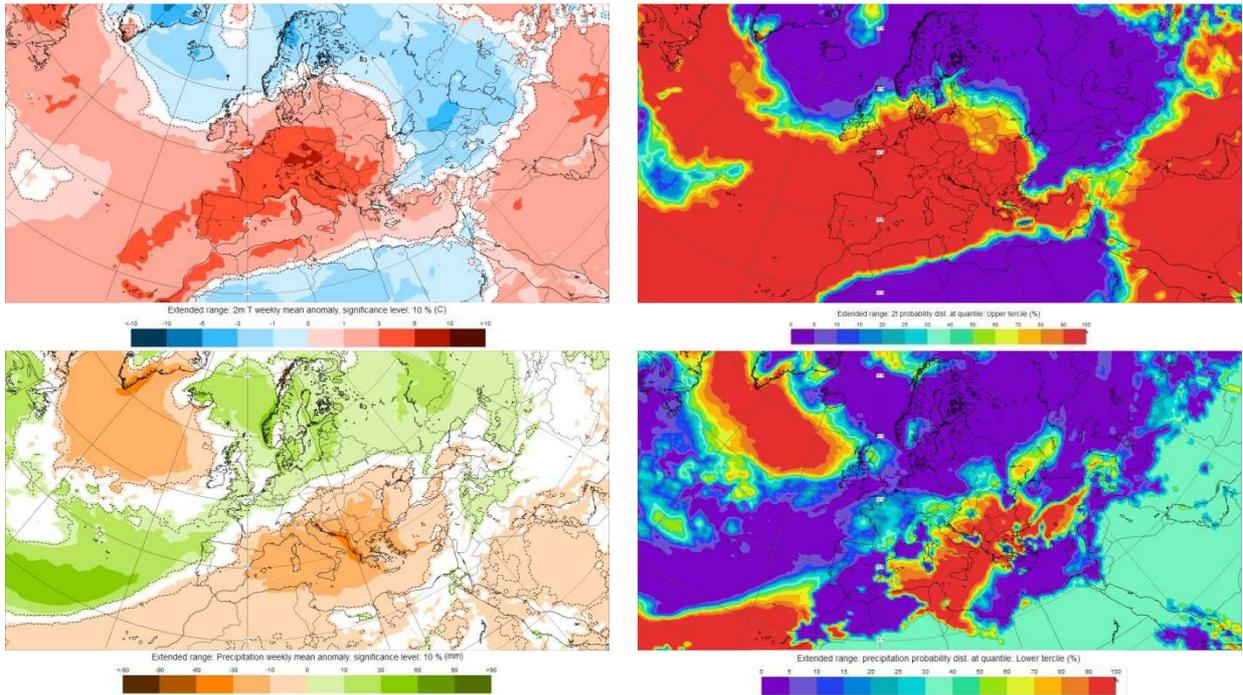


Figure 3. Outlook for the temperature anomalies and probability for the upper tercile (upper row), along with the precipitation surplus/deficit and probability for the lower tercile (lower row) for the 9.10–15.10.2023 period (source: European Centre for Medium-Range Weather Forecasts)

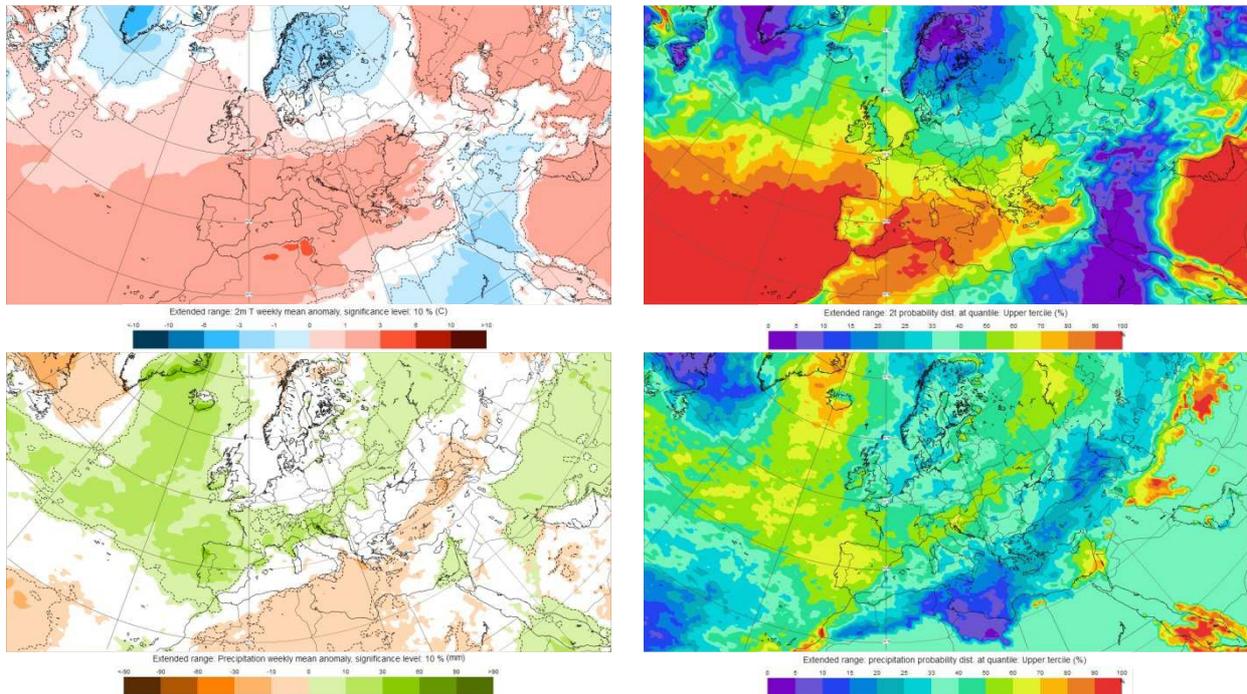


Figure 4. Outlook for the temperature anomalies and probability for the upper tercile (upper row), along with the precipitation surplus/deficit and probability for the upper tercile (lower row) for the 16.10–22.10.2023 period (source: European Centre for Medium-Range Weather Forecasts)

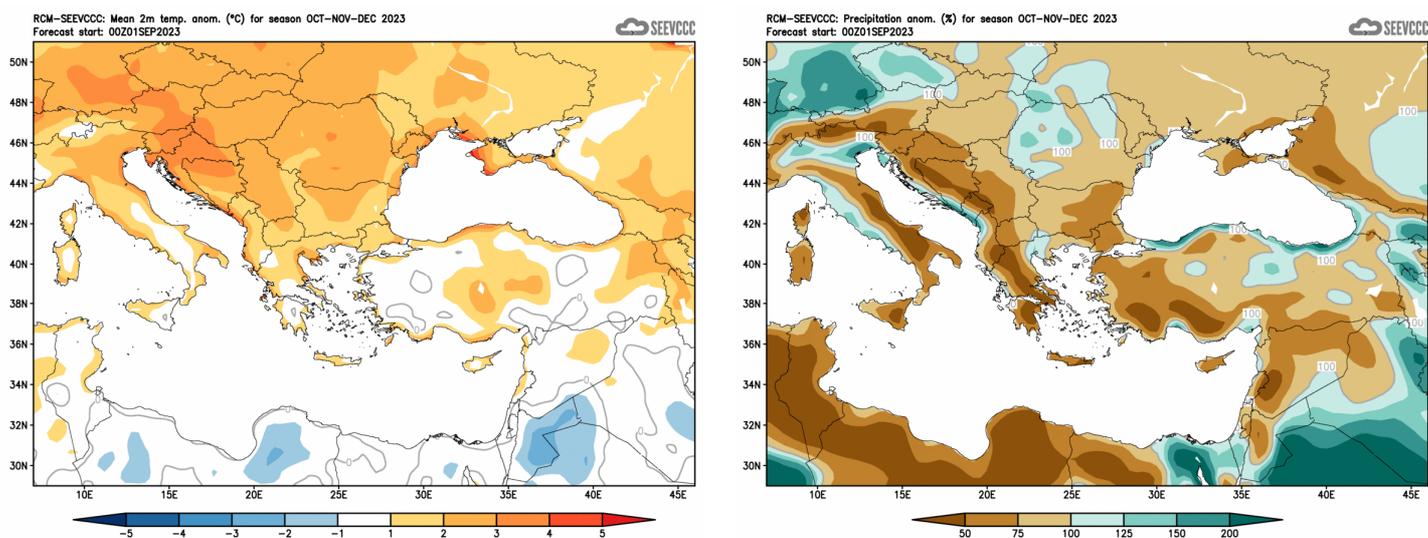


Figure 5. Mean seasonal temperature and precipitation anomaly for the season OND (seasonal outlook from RCM – SEEVCCC)

Sources

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