

Climate Watch (Serial No.: 20231204–48)

Initial/Updated/Final

Topic: **temperature and precipitation**

Organization issuing the statement: SEEVCCC

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Cancelled

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Valid from – to: 4-12-2023 – 31-1-2024 Next amendment: 11-12-2023

Region of concern: **the Balkans, Turkey and South Caucasus**

„ Within the first week (4 to 10 December 2023), ECMWF monthly forecast predicts below average mean weekly air temperature in parts of central, eastern and western Balkans, with anomaly up to -3°C . Probability for exceeding lower tercile (bottom third of the lowest temperature) is around 80%. Temperature up to $+6^{\circ}\text{C}$ is predicted for Turkey and South Caucasus with probability for upper tercile (upper third of the highest temperature) around 90%. Precipitation surplus is expected in eastern and southern Balkans and most of Turkey, with around 90% probability for exceeding upper tercile (top third of the highest precipitation). “

Monitoring

During the period from 26 November to 2 December 2023, weekly precipitation sums were around 75 mm in western Balkans and western Turkey, while in rest of the region they were up to 25 mm.

Outlook

Within the first week (4 to 10 December 2023), ECMWF monthly forecast predicts below average mean weekly air temperature in parts of central, eastern and western Balkans, with anomaly up to -3°C . Probability for exceeding lower tercile (bottom third of the lowest temperature) is around 80%. Temperature up to $+6^{\circ}\text{C}$ is predicted for Turkey and South Caucasus with probability for upper tercile (upper third of the highest temperature) around 90%. Precipitation surplus is expected in eastern and southern Balkans and most of Turkey, with around 90% probability for exceeding upper tercile (top third of the highest precipitation).

During the second week (11 to 17 December 2023), above normal mean weekly air temperature is forecasted for most of the region, with anomaly up to $+3^{\circ}\text{C}$, in Turkey and South Caucasus even up to $+6^{\circ}\text{C}$. Probability for exceeding upper tercile (upper third of the highest temperature) is up to 70% in the Balkans, while in rest of the region is up to 90%. Precipitation surplus is expected in parts of the northern and eastern Balkans and most of Turkey, with around 60% probability for exceeding upper tercile (top third of the highest precipitation).

During the following three months (December, January and February), seasonal forecast predicts above average seasonal air temperature in most of the region. Precipitation surplus is expected in the Carpathians, along Adriatic coast, northern and eastern Turkey and South Caucasus.

Update

An updated statement will be issued on 11-12-2023

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

ANNEX

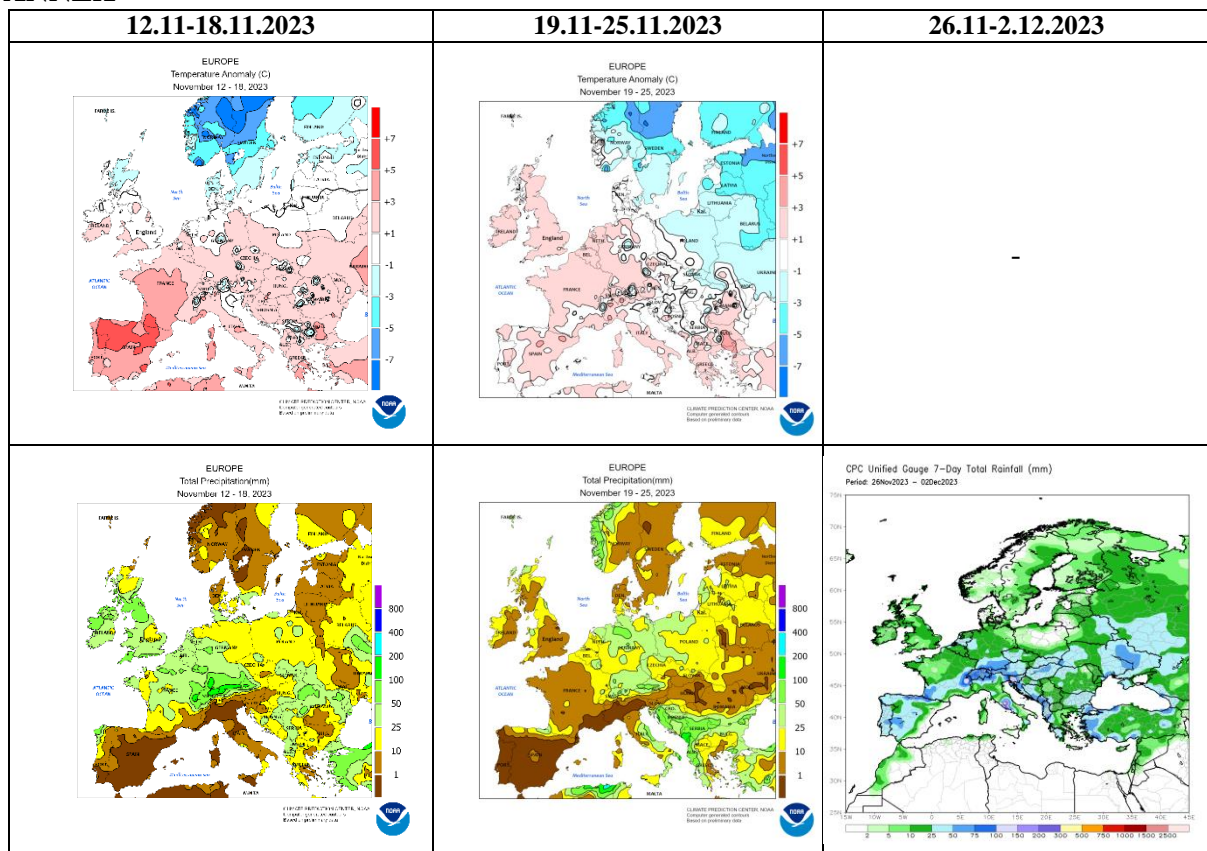


Figure 1. Temperature anomaly and total precipitation for recent weeks (source: Climate Prediction Center, USA)

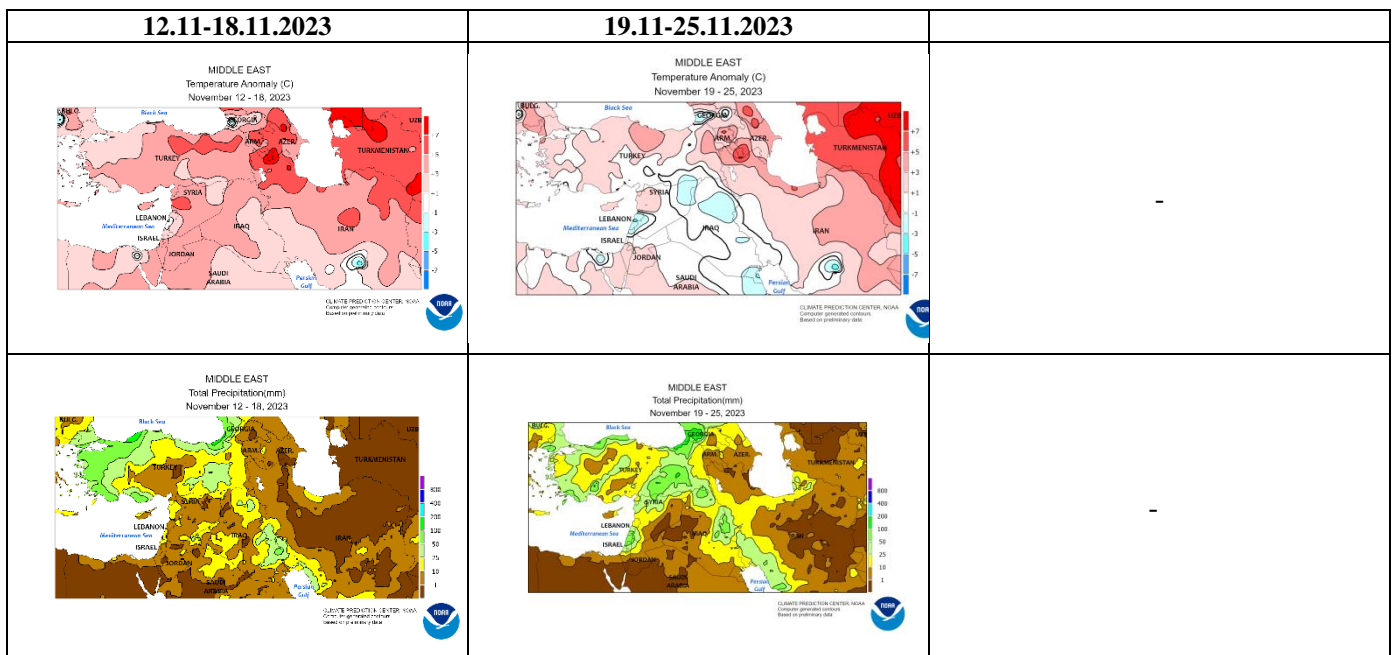


Figure 2. Temperature anomaly and total precipitation for recent weeks for Middle East (source: Climate Prediction Center)

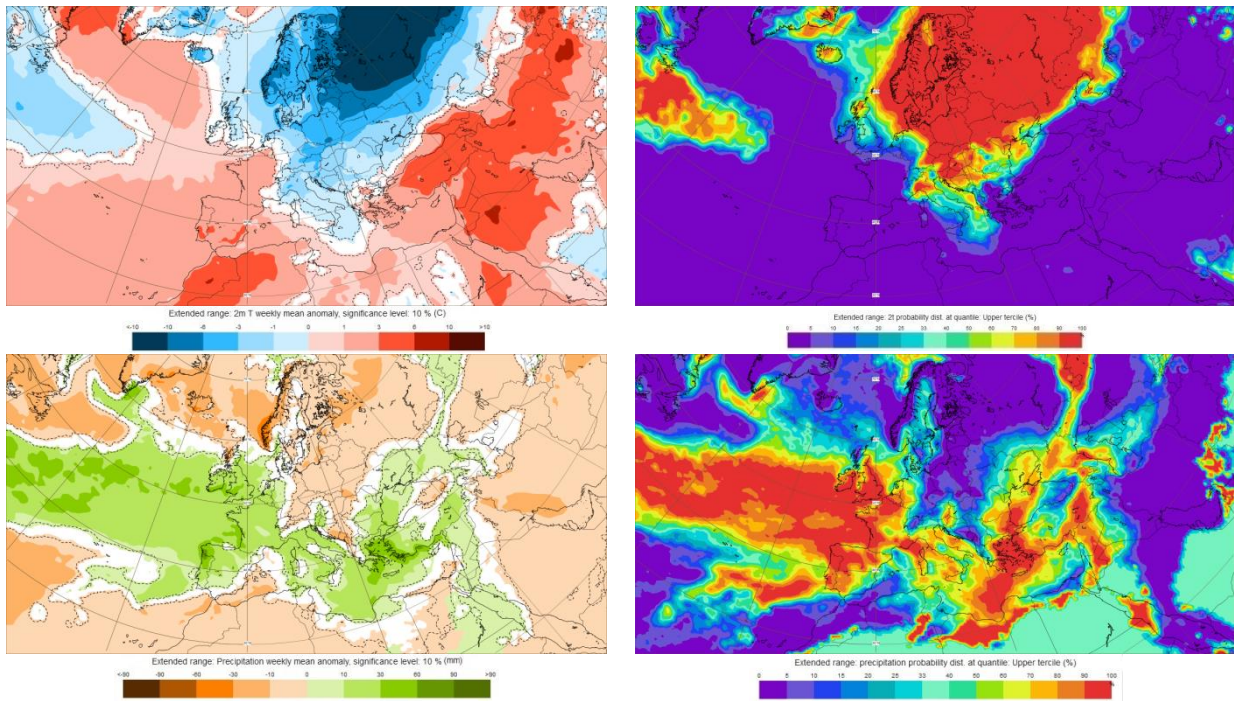


Figure 3. Outlook for the temperature anomalies and probability for the lower tercile (upper row), along with the precipitation surplus/deficit and probability for the upper tercile (lower row) for the 4.12–10.12.2023 period (source: European Centre for Medium-Range Weather Forecasts)

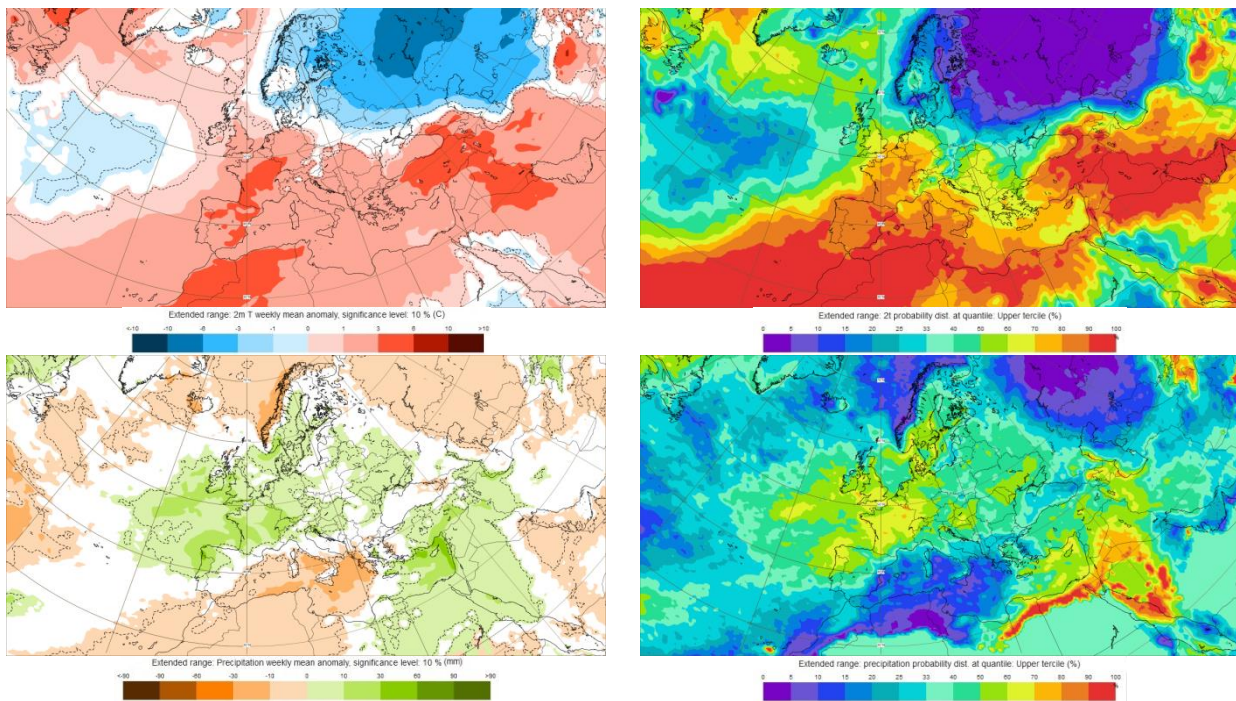


Figure 4. Outlook for the temperature anomalies and probability for the upper tercile (upper row), along with the precipitation surplus/deficit and probability for the upper tercile (lower row) for the 11.12–17.12.2023 period (source: European Centre for Medium-Range Weather Forecasts)

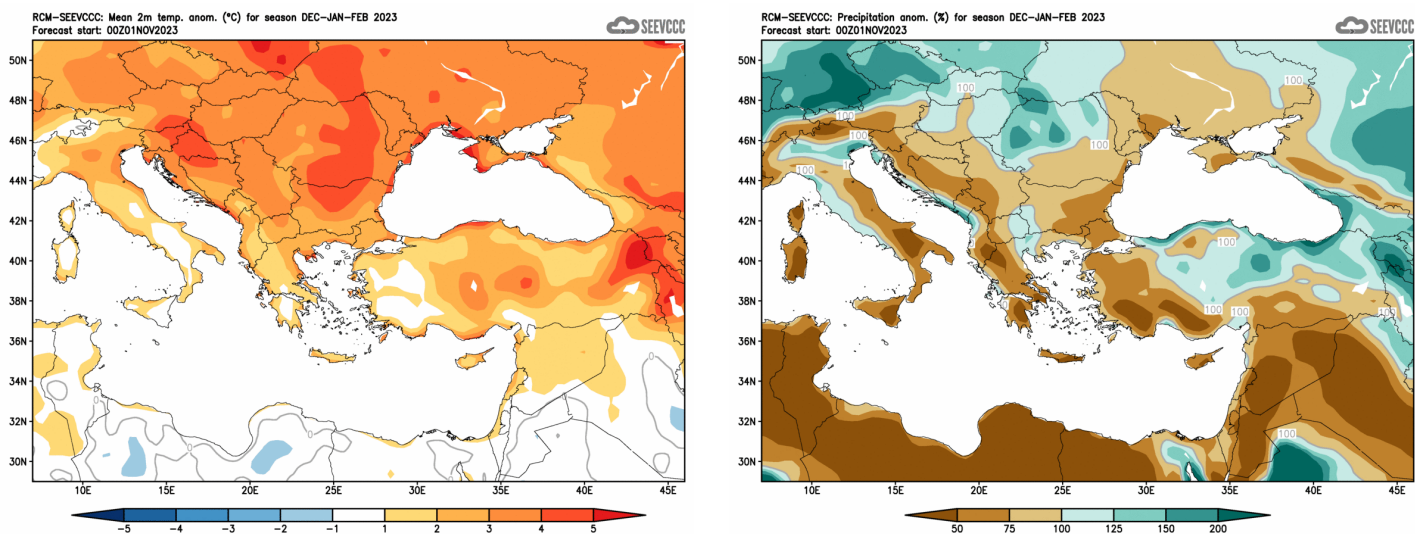


Figure 5. Mean seasonal temperature and precipitation anomaly for the season DJF (seasonal outlook from RCM – SEEVCCC)

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/>)