

Climate Watch (Serial No.: 20231218–50)

Initial/Updated/Final

Topic: **precipitation**

Organization issuing
the statement: SEEVCCC

Issued/ Amended /
Cancelled 18-12-2023 16:00 P.M.

Contact: E-mail: cws-seevccc@hidmet.gov.rs
Phone: +381112066925
Fax: +381112066929

Valid from – to: 18-12-2023 – 31-3-2024 Next amendment: 25-12-2023

Region of concern: **Ukraine, Romania, Greece, Turkey and South Caucasus**

„ Within the first week (18 to 24 December 2023), ECMWF monthly forecast predicts precipitation surplus in the southeastern Aegean Sea, northern and eastern Ukraine, with around 80% probability for exceeding upper tercile. During the second week (25 to 31 December 2023) precipitation surplus is expected in the Carpathian Mountains, northern Ukraine, northeastern Turkey and South Caucasus. Probability for exceeding upper tercile is around 60%, even up to 70% in the Carpathian Mountains. “

Monitoring

During the period from 10 to 16 December 2023, weekly precipitation sums were up to 150 mm in northwestern Turkey, up to a 100 mm in the northwestern Balkans, while in southern and northern Turkey, northeastern Ukraine, western Georgia, as well as parts of the central and eastern Balkans they were up to 50 mm. In rest of the region precipitation totals were up to 25 mm.

Outlook

Within the first week (18 to 24 December 2023), ECMWF monthly forecast predicts above average mean weekly air temperature in almost the entire region, with anomaly up to +3°C and up to +6°C in some parts of the western and eastern Balkans, Moldova and Ukraine. Probability for exceeding upper tercile (top third of the highest temperature) is around 90%. Precipitation surplus is expected in the southeastern Aegean Sea, northern and eastern Ukraine, with around 80% probability for exceeding upper tercile (top third of the highest precipitation).

During the second week (25 to 31 December 2023), above normal mean weekly air temperature is forecasted for almost the entire region, with anomaly up to +3°C. Probability for exceeding upper tercile (top third of the highest temperature) is around 70% in the northern and southern Balkans, southeastern Ukraine, Moldova and Middle East, while in Azerbaijan it is up to 90%. Precipitation surplus is expected in the Carpathian Mountains, northern Ukraine, northeastern Turkey and South Caucasus. Probability for exceeding upper tercile (top third of the highest precipitation) is around 60%, even up to 70% in the Carpathian Mountains.

During the following three months (January, February and March), seasonal forecast predicts above average seasonal air temperature in northwestern, central and eastern Balkans, Carpathian Mountains, Moldova, Ukraine, central and eastern Turkey. Precipitation surplus is expected in the Carpathians, along Adriatic coast, northern, central and eastern Turkey and South Caucasus.

Update

An updated statement will be issued on 25-12-2023

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

ANNEX

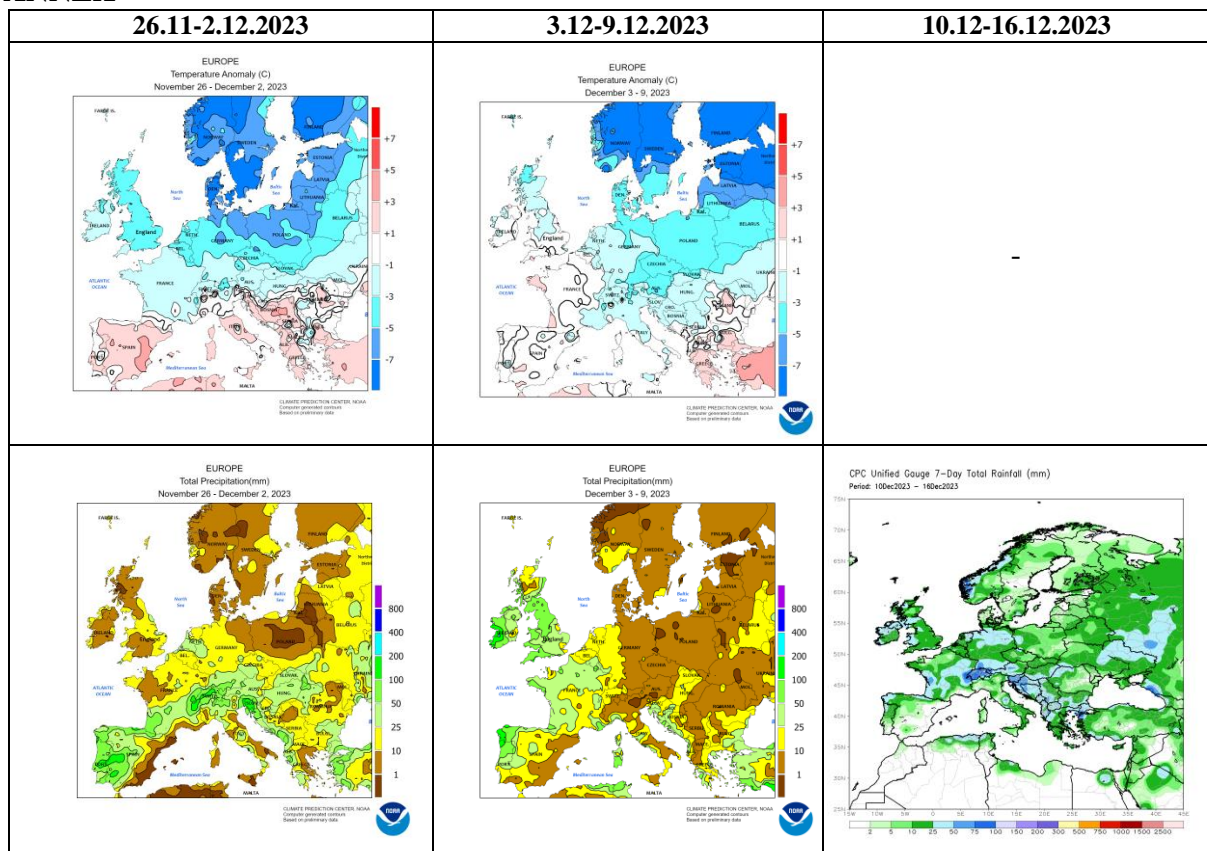


Figure 1. Temperature anomaly and total precipitation for recent weeks (source: Climate Prediction Center, USA)

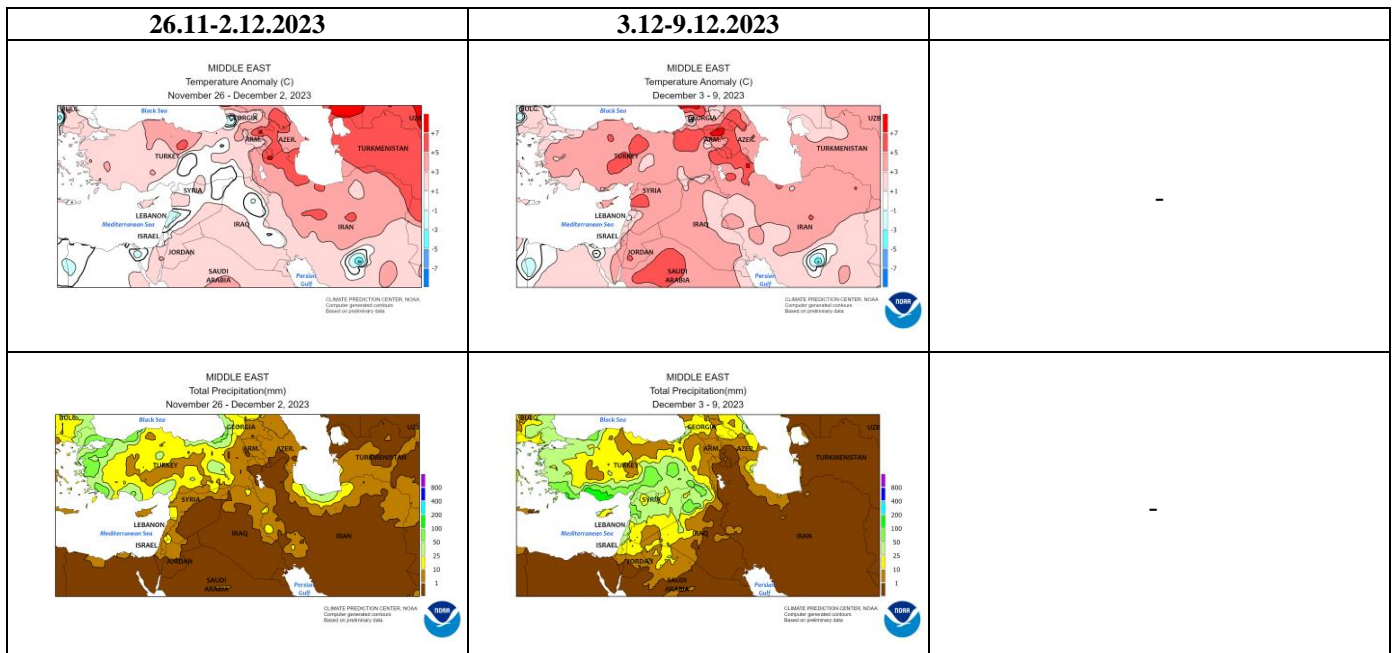


Figure 2. Temperature anomaly and total precipitation for recent weeks for Middle East (source: Climate Prediction Center)

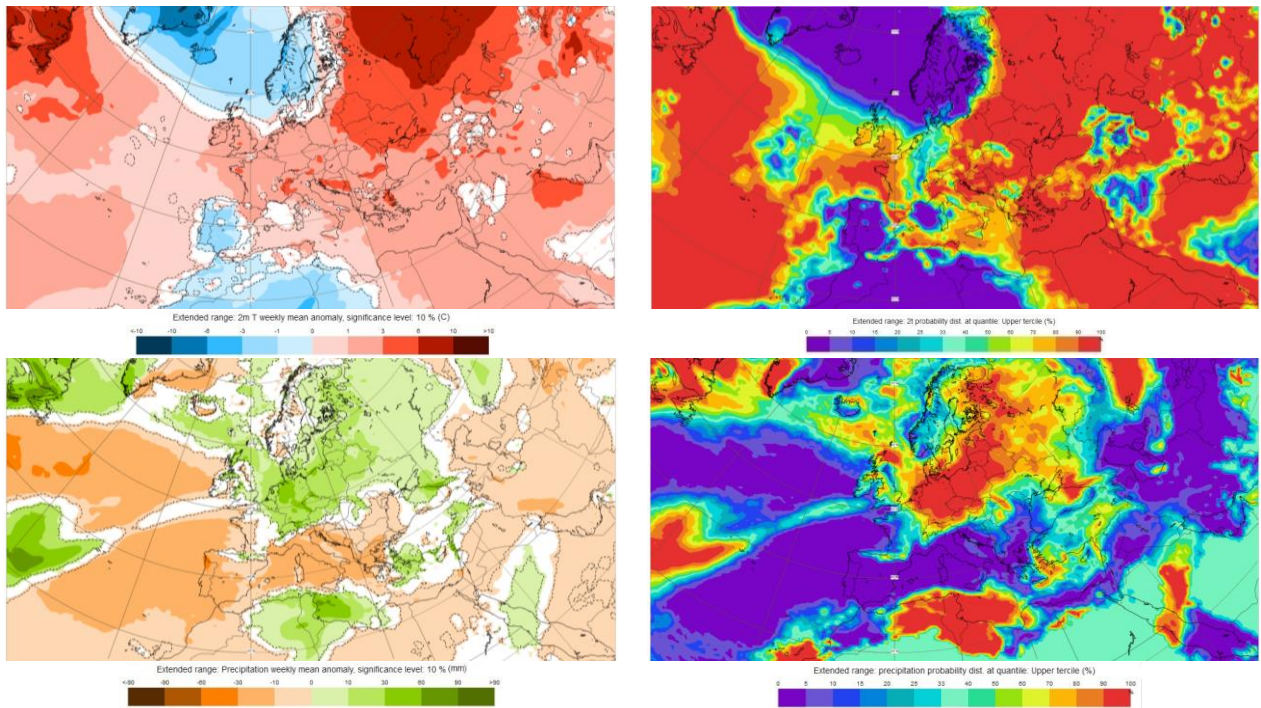


Figure 3. Outlook for the temperature anomalies and probability for the upper tercile (upper row), along with the precipitation surplus/deficit and probability for the upper tercile (lower row) for the 18.12–24.12.2023 period (source: European Centre for Medium-Range Weather Forecasts)

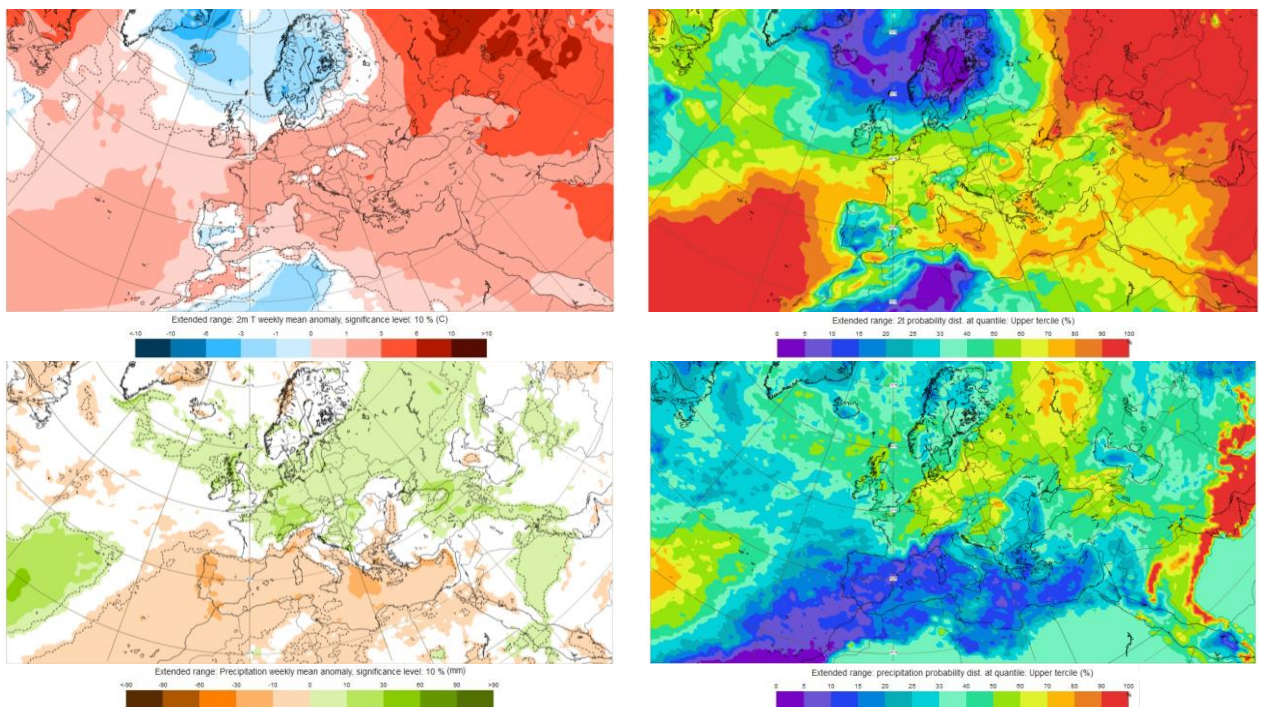


Figure 4. Outlook for the temperature anomalies and probability for the upper tercile (upper row), along with the precipitation surplus/deficit and probability for the upper tercile (lower row) for the 25.12–31.12.2023 period (source: European Centre for Medium-Range Weather Forecasts)

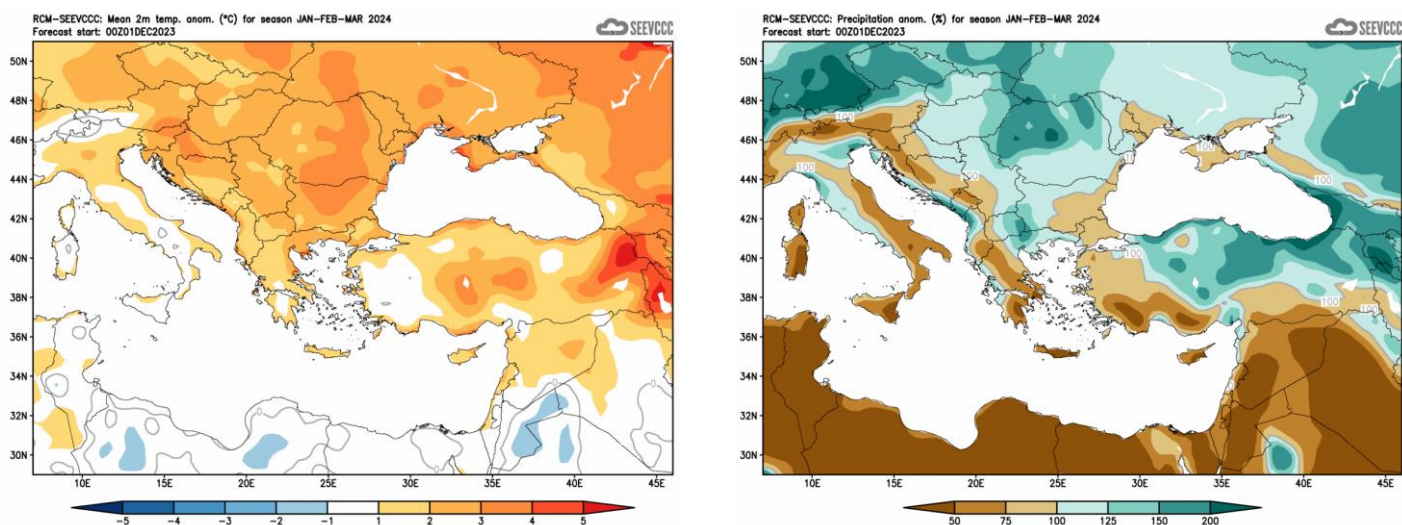


Figure 5. Mean seasonal temperature and precipitation anomaly for the season JFM (seasonal outlook from RCM – SEEVCCC)

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/>)