

Climate Watch (Serial No.: 20230828–34)

Initial/Updated/Final

Topic: **temperature, precipitation**

Organization issuing the statement: SEEVCCC

Issued/ Amended / 28-8-2023 16:00 P.M.
Cancelled

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Valid from – to: 28-8-2023 – 30-11-2023 Next amendment: 4-9-2023

Region of concern: **Turkey, Ukraine, Moldova, South Caucasus, Middle East and Balkans**

„Within the first week (28 August to 3 September 2023), ECMWF monthly forecast predicts above average mean weekly air temperature for the eastern and southern Balkans, northern Turkey and Ukraine, with anomaly up to +6°C. Probability for exceeding upper decile (top ten of the highest temperature) is up to 90%. Precipitation surplus is expected in western and some parts of the eastern Balkans, Moldova, eastern Turkey, South Caucasus and Middle East, with probability up to 90% for exceeding upper tercile (bottom third of the highest precipitation).“

Monitoring

During the period from 20 to 26 August 2023, weekly precipitation sums were below 25 mm in almost the entire region, except at some locations in western Ukraine and northeastern Turkey where they were up to 50 mm.

Outlook

Within the first week (28 August to 3 September 2023), ECMWF monthly forecast predicts above average mean weekly air temperature for the eastern and southern Balkans, northern Turkey and Ukraine, with anomaly up to +6°C. Probability for exceeding upper decile (top ten of the highest temperature) is up to 90%. Precipitation surplus is expected in western and some parts of the eastern Balkans, Moldova, eastern Turkey, South Caucasus and Middle East, with probability up to 90% for exceeding upper tercile (bottom third of the highest precipitation).

During the second week (4 to 10 September 2023), above normal mean weekly air temperature, with anomaly up to +3°C, is forecasted for the eastern and southern Balkans, northern and western coasts of Turkey, Ukraine and Israel. Probability for exceeding upper tercile (top third of the highest temperature) is up to 90% in the southern Balkans, around 80% in Israel and around 70% in Ukraine and Turkey. Precipitation surplus is predicted for the central and northeastern Turkey, Georgia and Armenia, with probability up to 70% 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 western and northern Balkans and part of central and western Romania. Below average seasonal air temperature is expected in Jordan. Precipitation surplus is expected in the Carpathians, along Adriatic coast, northeastern Turkey, South Caucasus and most of the Middle East. Precipitation deficit is predicted for southeastern Moldova, northern and southeastern Ukraine, southwestern Turkey and most of the Balkans.

Update

An updated statement will be issued on 28-8-2023

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

ANNEX

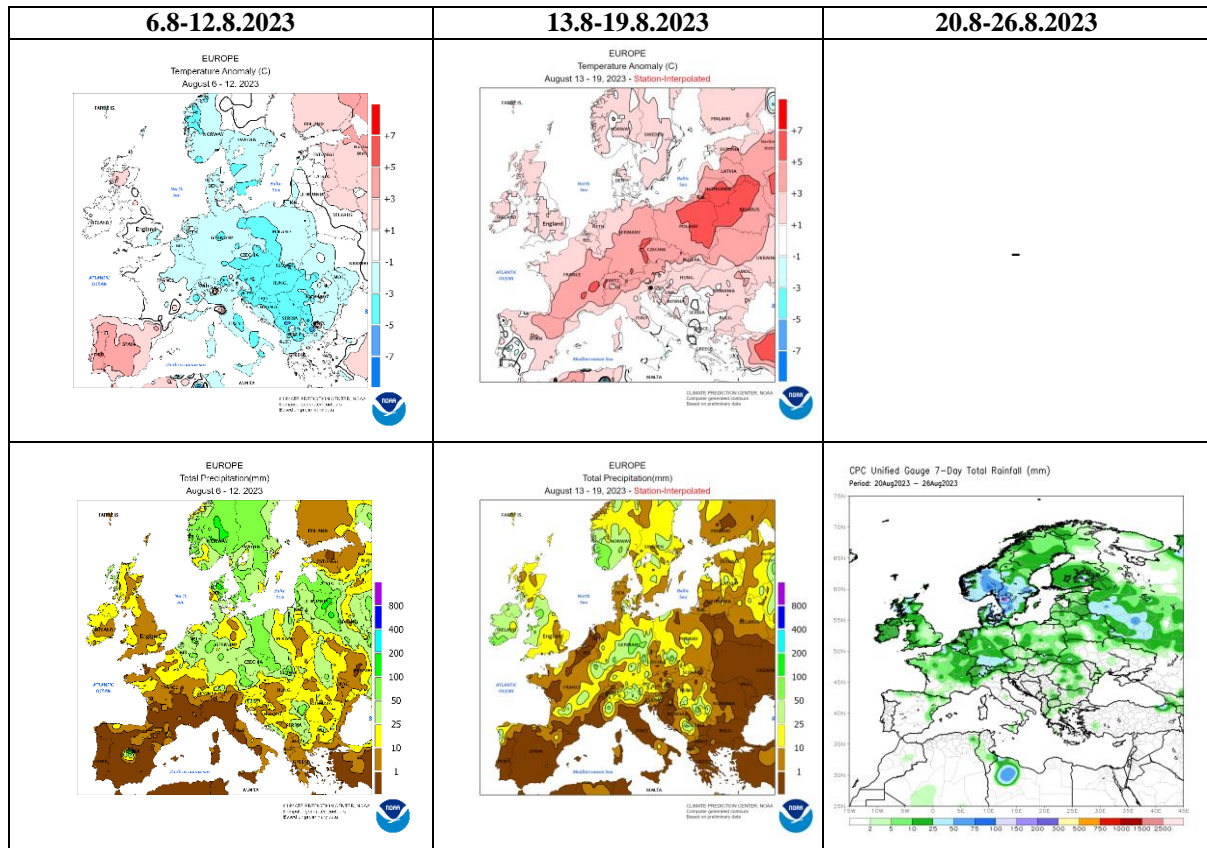


Figure 1. Temperature anomaly and total precipitation for recent weeks (source: Climate Prediction Center, USA)

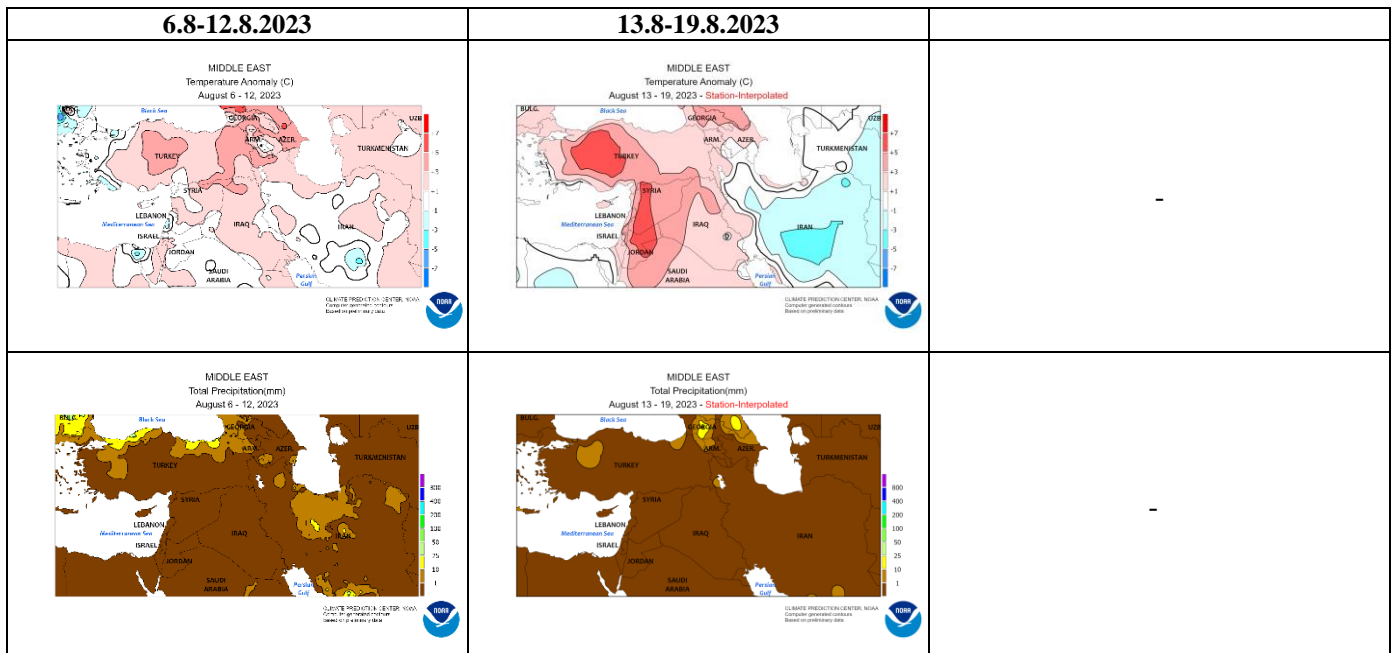


Figure 2. Temperature anomaly and total precipitation for recent weeks for Middle East (source: Climate Prediction Center)

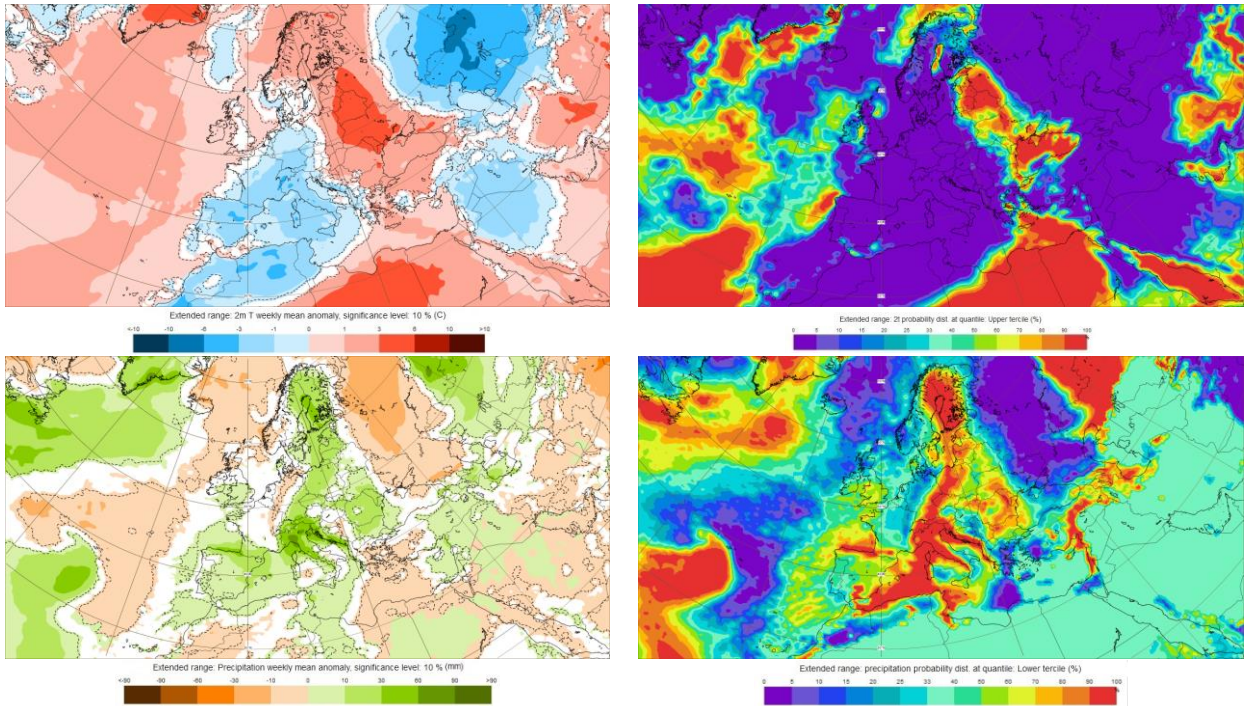


Figure 3. Outlook for the temperature anomalies and probability for the upper decile (upper row), along with the precipitation surplus/deficit and probability for the upper tercile (lower row) for the 28.8–3.9.2023 period (source: European Centre for Medium-Range Weather Forecasts)

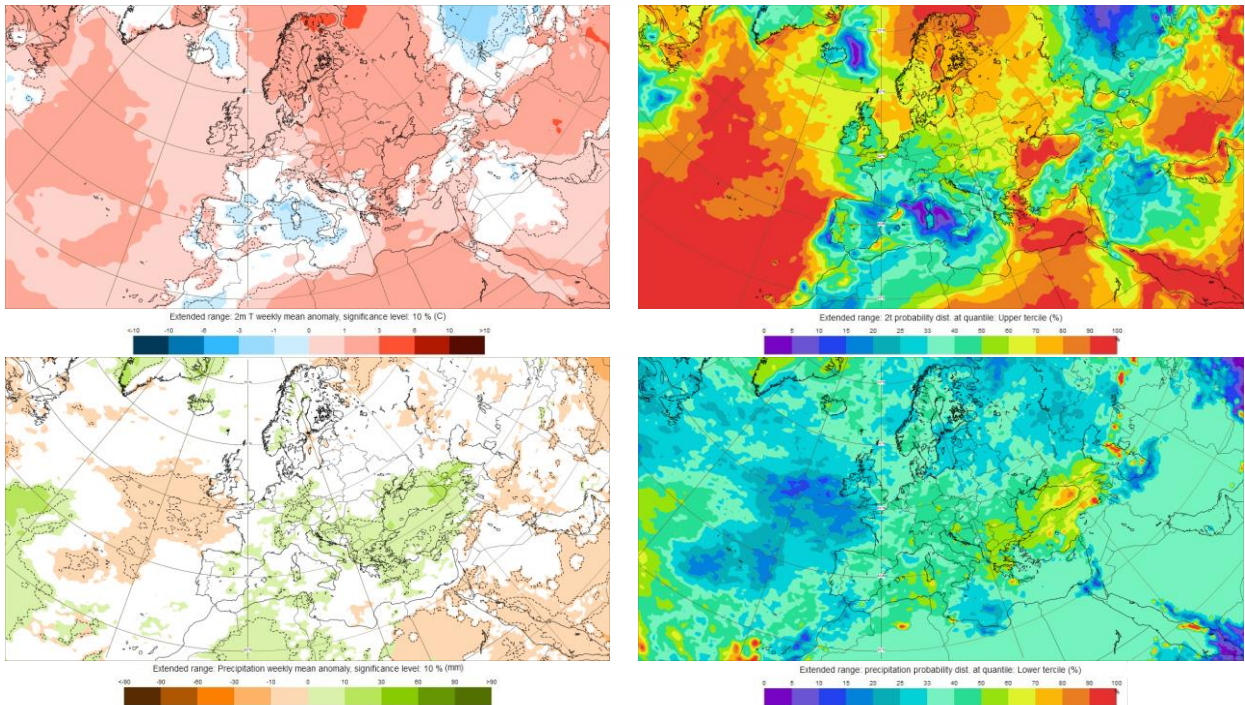


Figure 4. Outlook for the temperature anomalies and probability for the upper tercile (upper row), along with the precipitation surplus/deficit and probability for the upper tercile (lower row) for the 4.9–10.9.2023 period (source: European Centre for Medium-Range Weather Forecasts)

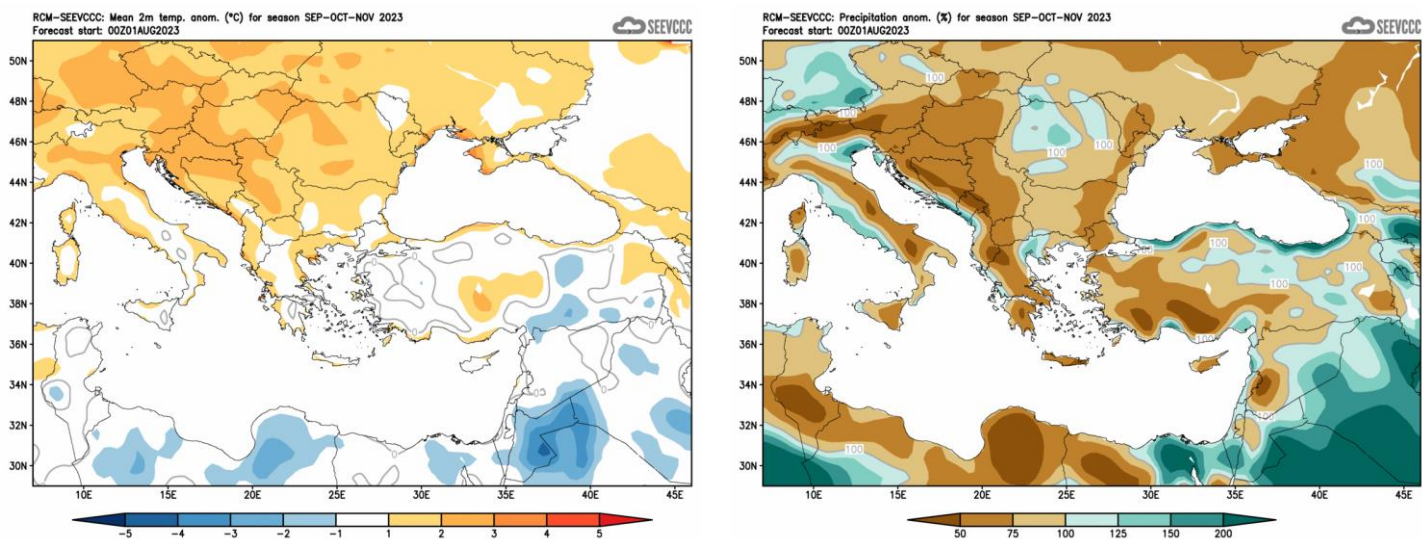


Figure 5. Mean seasonal temperature and precipitation anomaly for the season SON (seasonal outlook from RCM – SEEVCCC)

Sources

- Republic Hydrometeorological Service of Serbia (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/>)