

Climate Watch (Serial No.: 20230814–32)

Initial/Updated/Final

Topic: **temperature, precipitation**

Organization issuing SEEVCCC

the statement:

Issued/ Amended / 14-8-2023 16:00 P.M.

Cancelled

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Valid from – to: 14-8-2023 – 31-10-2023

Next amendment: 21-8-2023

Region of concern: **Turkey, Ukraine, Middle East, Balkans**

„Within the first week (14 to 20 August 2023), ECMWF monthly forecast predicts above average mean weekly air temperature with anomaly up to +3°C for most of the region, up to +6°C for western Ukraine, most of Turkey and Middle East, while in part of western Turkey temperature anomaly is expected to be up to +10°C. Probability for exceeding upper tercile (top third percent of the highest temperature) is more than 90% in most of the region. Precipitation deficit is expected in the western Balkans and northeastern Turkey, with probability around 80% for exceeding lower tercile (bottom third of the lowest precipitation).“

Monitoring

During the period from 6 to 12 August 2023, weekly precipitation sums were up to 100 mm in some locations in northeastern Ukraine and Carpathian region and up to 50 mm in some parts of the central and eastern Balkans, eastern and western Ukraine, while in other parts of the region, precipitation totals were up to 25 mm. Precipitation was not recorded in most of Turkey, Middle East, South Caucasus and Cyprus.

Outlook

Within the first week (14 to 20 August 2023), ECMWF monthly forecast predicts above average mean weekly air temperature with anomaly up to +3°C is predicted for most of the region, up to +6°C for western Ukraine, most of Turkey and Middle East, while in part of western Turkey temperature anomaly is expected to be up to +10°C. Probability for exceeding upper tercile (top third percent of the highest temperature) is more than 90% in most of the region. Precipitation deficit is expected in the western Balkans and northeastern Turkey, with probability around 80% for exceeding lower tercile (bottom third of the lowest precipitation).

During the second week (21 to 27 August 2023), above normal mean weekly air temperature with anomaly up to +3°C is forecasted for most of the SEE region with around 70% probability for upper tercile (top third percent of the highest temperature). Average precipitation sums are predicted for most of the region.

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 21-8-2023

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

ANNEX

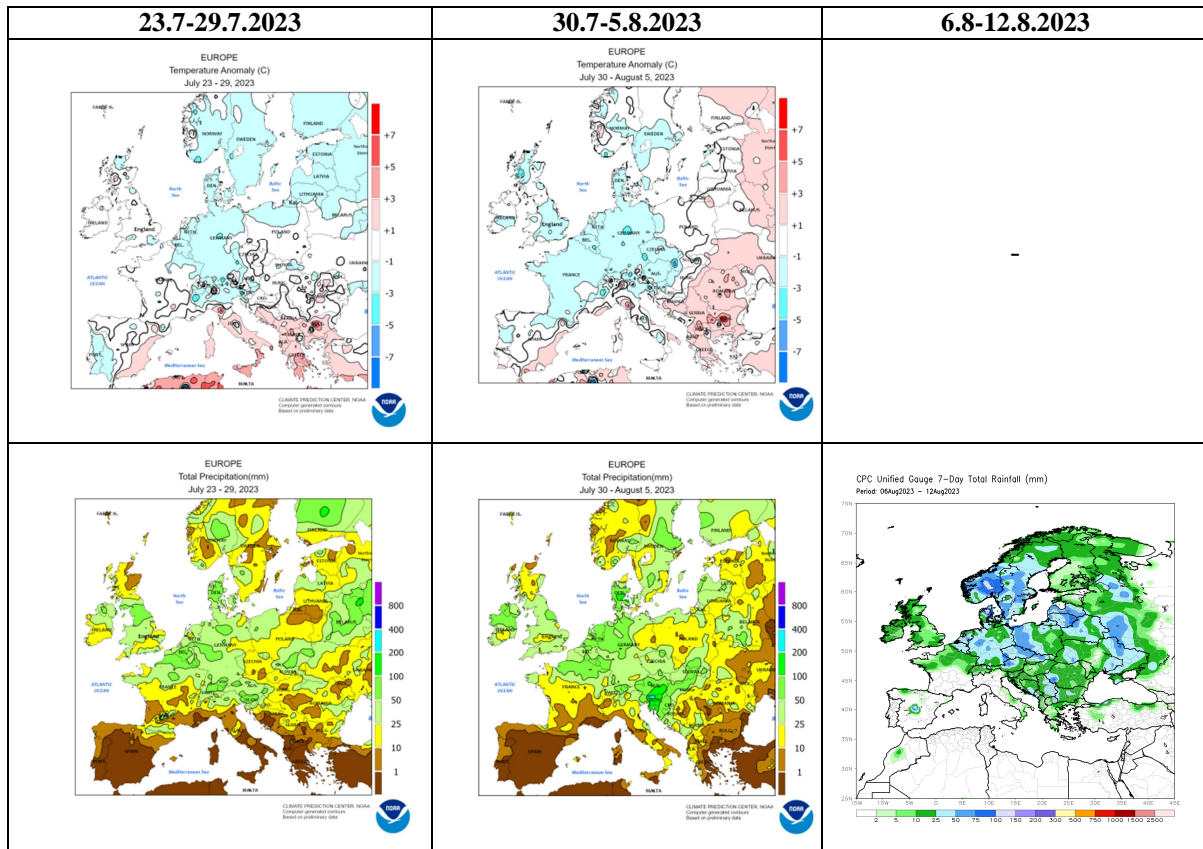


Figure 1. Temperature anomaly and total precipitation for recent weeks (source: Climate Prediction Center, USA)

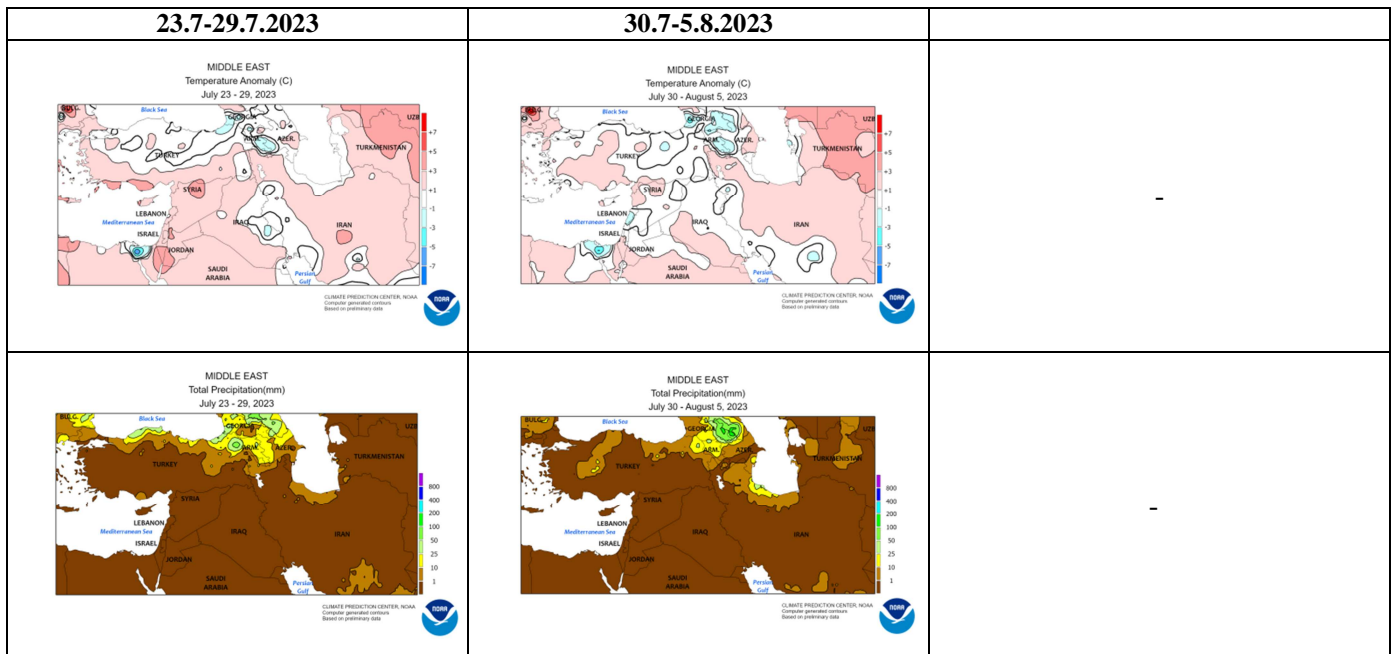


Figure 2. Temperature anomaly and total precipitation for recent weeks for Middle East (source: Climate Prediction Center)

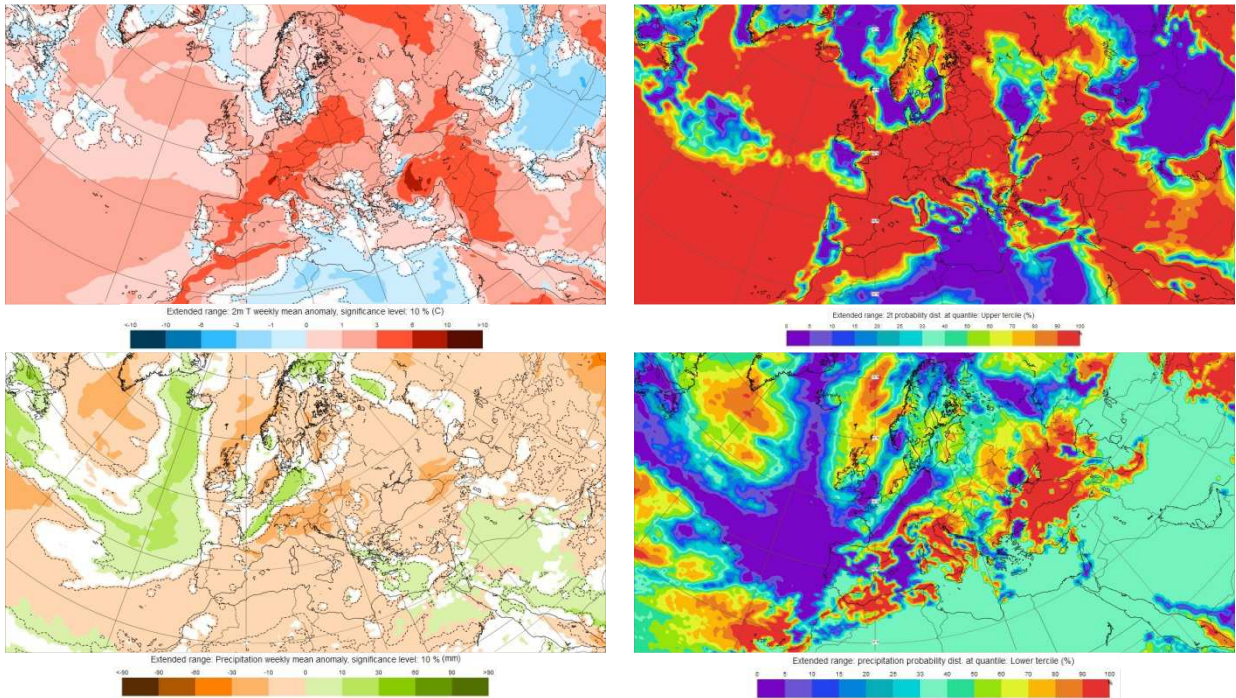


Figure 3. Outlook for the temperature anomalies and probability for the upper tercile (upper row), along with the precipitation surplus/deficit and probability for the lower tercile (lower row) for the 14.8–20.8.2023 period (source: European Centre for Medium-Range Weather Forecasts)

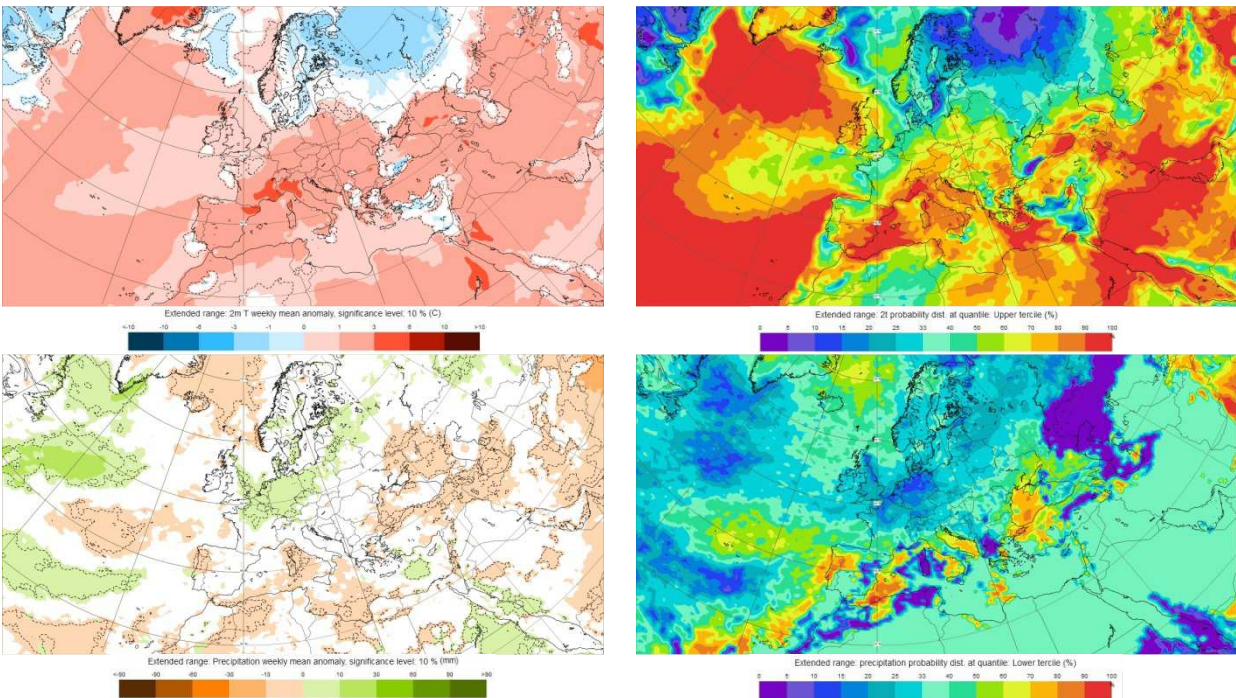


Figure 4. Outlook for the temperature anomalies and probability for the upper tercile (upper row), along with the precipitation surplus/deficit and probability for the lower tercile (lower row) for the 21.8–27.8.2023 period (source: European Centre for Medium-Range Weather Forecasts)

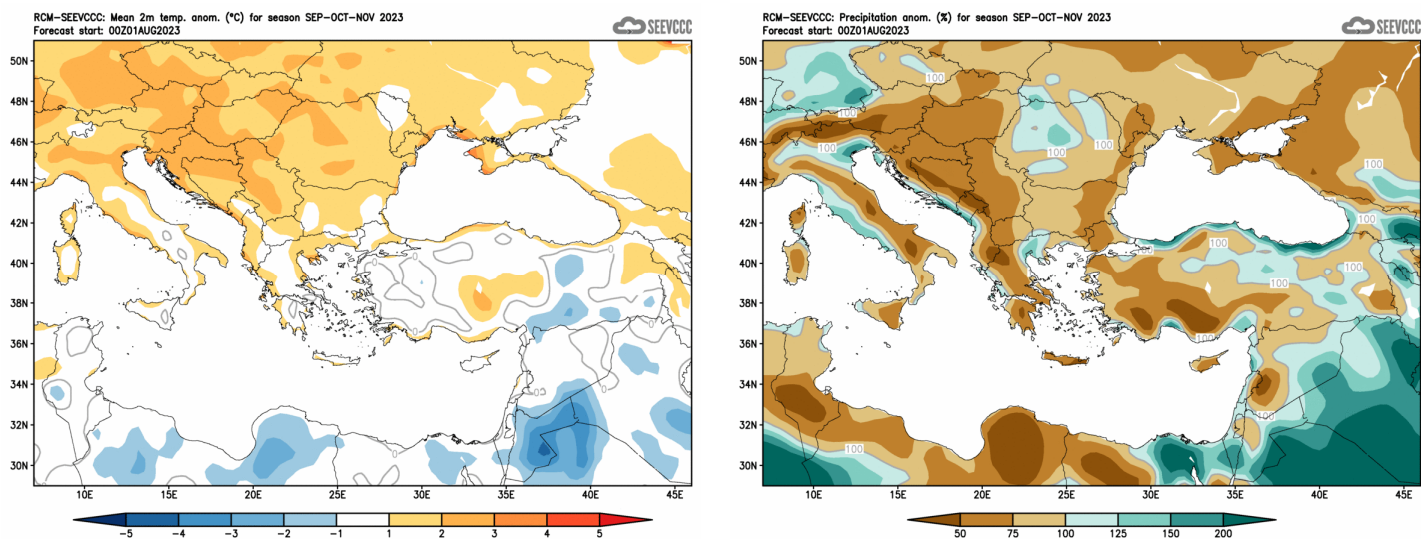


Figure 5. Mean seasonal temperature and precipitation anomaly for the season SON (seasonal outlook from RCM – SEEVCCC)

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/>)