

Climate Watch (Serial No.: 20230731–30)

Initial/Updated/Final

Topic: **temperature, precipitation**

Organization issuing SEEVCCC

the statement:

Issued/ Amended / 31-7-2023 16:00 P.M.

Cancelled

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Valid from – to: 31-7-2023 – 30-9-2023

Next amendment: 7-8-2023

Region of concern: **SEE**

„ Within the first week (31 July to 6 August 2023), ECMWF monthly forecast predicts above average mean weekly air temperature with anomaly up to +3°C in Bulgaria, Turkey, southeastern Greece, South Caucasus and part of southeastern Ukraine, with around 90% probability for exceeding upper tercile (top thirty percent of the highest temperature). Below average mean weekly air temperature with anomaly up to –3°C is predicted for the western Balkans with up to 90% probability for exceeding lower tercile. Precipitation surplus is forecasted for the western Balkans, Carpathian region and most of Moldova and western Ukraine, with around 80% probability for upper tercile (top third of the highest precipitation). Precipitation deficit is expected in most of Greece, northern Turkey and western Georgia, with probability up to 90% for exceeding lower tercile (bottom third of the lowest precipitation). “

Monitoring

During the period from 23 to 29 July 2023, weekly precipitation sums were up to 50 mm in some parts of Romania, Croatia, western and northern Ukraine, while in other parts of the region, precipitation totals were up to 25 mm. Precipitation was not recorded in southern Balkans, Cyprus, Middle East and most of Turkey.

Outlook

Within the first week (31 July to 6 August 2023), ECMWF monthly forecast predicts above average mean weekly air temperature with anomaly up to +3°C in Bulgaria, Turkey, southeastern Greece, South Caucasus and part of southeastern Ukraine, with around 90% probability for exceeding upper tercile (top thirty percent of the highest temperature). Below average mean weekly air temperature with anomaly up to -3°C is predicted for the western Balkans with up to 90% probability for exceeding lower tercile. Precipitation surplus is forecasted for the western Balkans, Carpathian region and most of Moldova and western Ukraine, with around 80% probability for upper tercile (top third of the highest precipitation). Precipitation deficit is expected in most of Greece, northern Turkey and western Georgia, with probability up to 90% for exceeding lower tercile (bottom third of the lowest precipitation).

During the second week (7 to 13 August 2023), above normal mean weekly air temperature with anomaly up to +3°C is forecasted in central and eastern Turkey and South Caucasus, with around 80% probability for upper tercile (top thirty percent of the highest temperature). Below average mean weekly air temperature with anomaly up to -3°C is expected in the central, eastern and southern Balkans, most of Romania, Moldova and western Ukraine, with around 70% probability for exceeding lower tercile. Temperature anomaly up to -6°C is predicted for the northern and western Balkans, as well as part of western Romania, with around 90% probability for exceeding lower tercile. Precipitation surplus is expected in the western and northwestern Ukraine, with probability of more than 60% for exceeding upper tercile. Precipitation deficit is predicted for the southern Balkans, Georgia and part of western Turkey, with probability up to 70% for exceeding lower tercile (bottom third of the lowest precipitation).

During the following three months (July, August and September), seasonal forecast predicts above average seasonal air temperature in Romania, Moldova, Ukraine and most of the Balkans. Below average seasonal air temperature is expected in some parts of eastern and southeastern Turkey. Precipitation surplus is expected in the Carpathians, northeastern Turkey, South Caucasus and most of the Middle East. Precipitation deficit is predicted for Moldova, most of Ukraine, most of Turkey and most of the Balkans.

Update

An updated statement will be issued on 7-8-2023

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

ANNEX

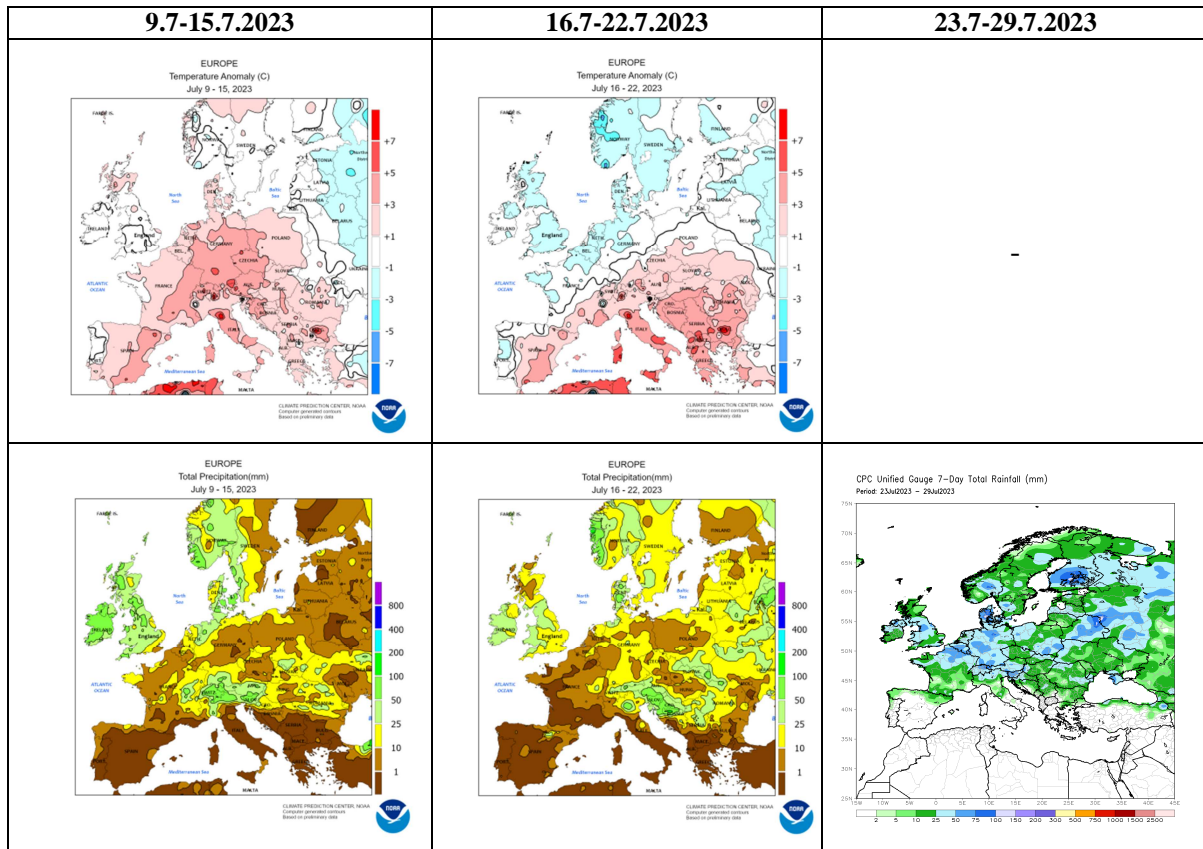


Figure 1. Temperature anomaly and total precipitation for recent weeks (source: Climate Prediction Center, USA)

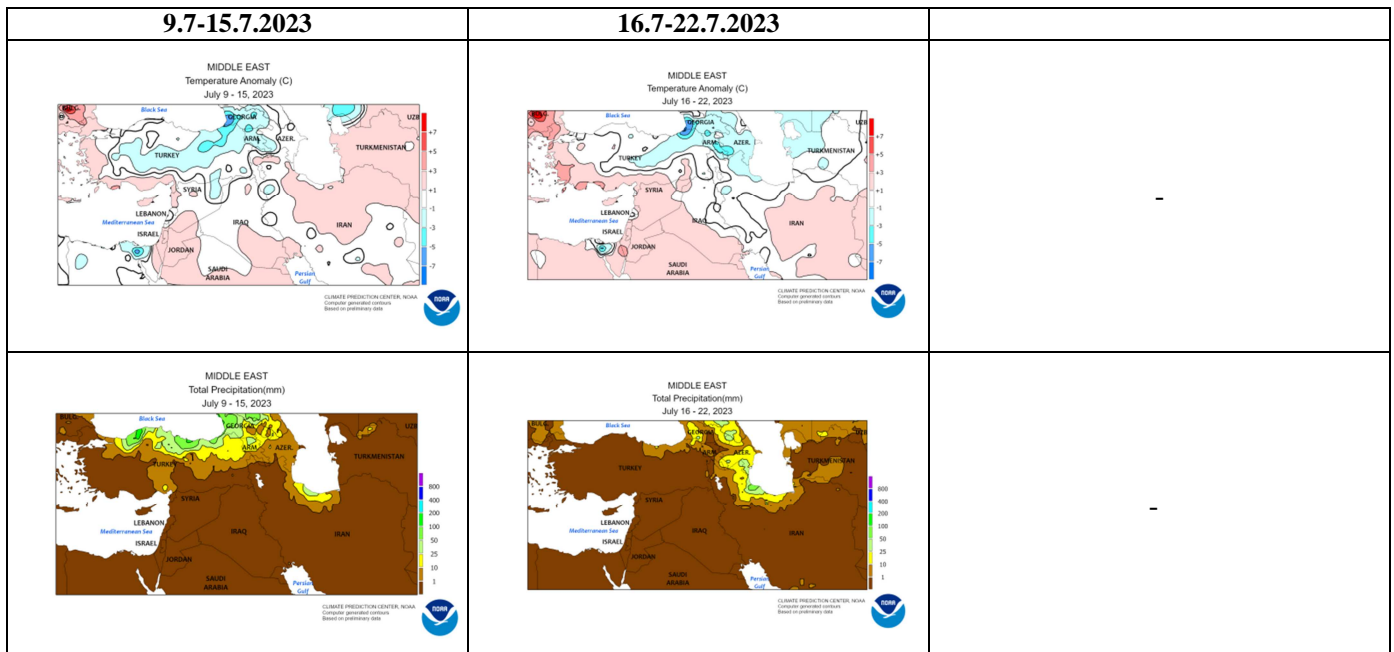


Figure 2. Temperature anomaly and total precipitation for recent weeks for Middle East (source: Climate Prediction Center)

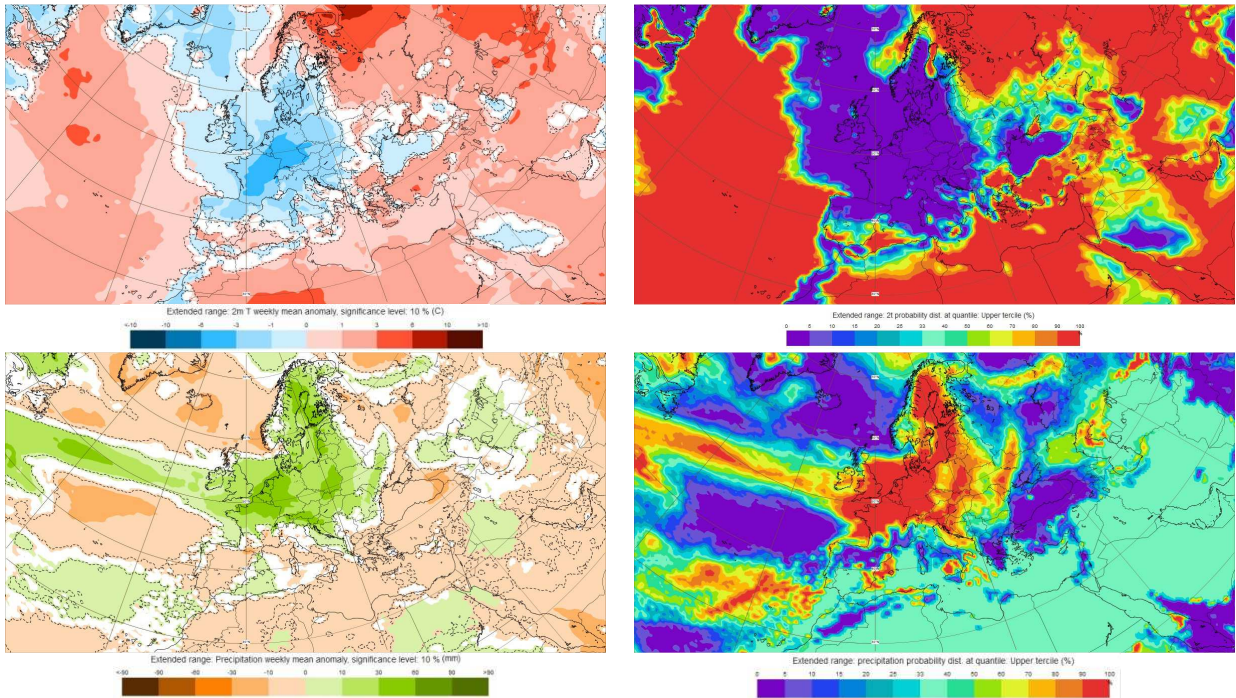


Figure 3. Outlook for the temperature anomalies and probability for the upper tercile (upper row), along with the precipitation surplus/deficit and probability for the upper tercile (lower row) for the 31.7–6.8.2023 period (source: European Centre for Medium-Range Weather Forecasts)

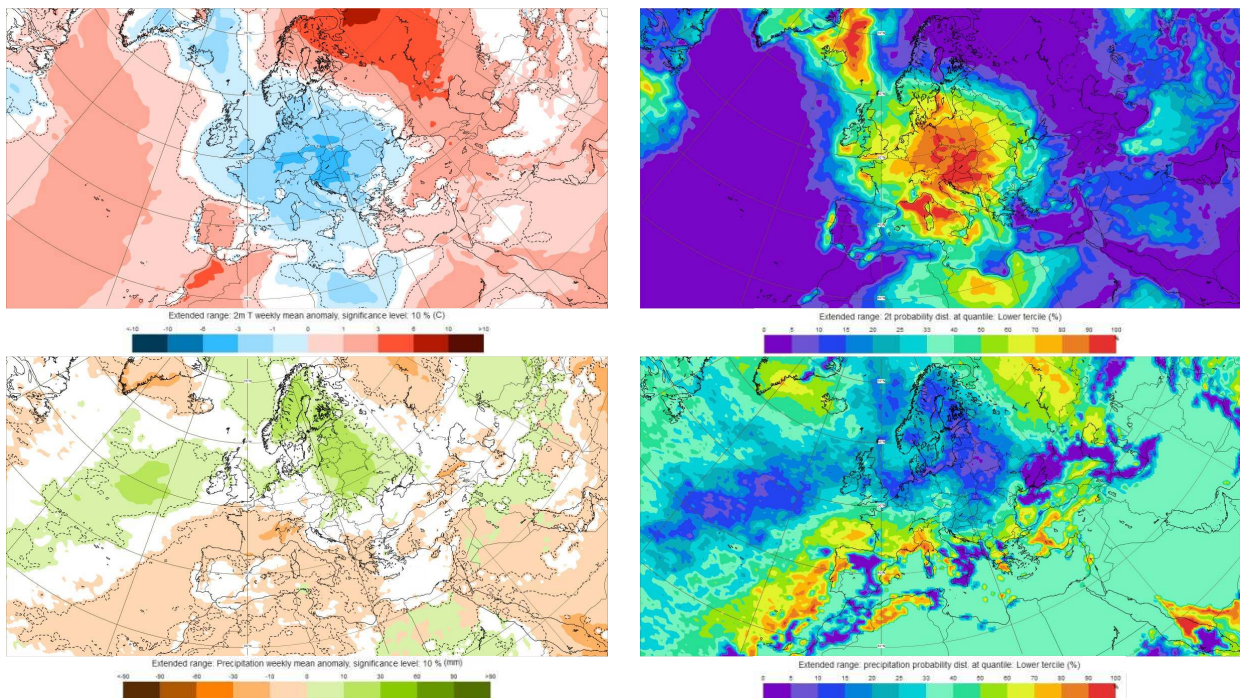


Figure 4. Outlook for the temperature anomalies and probability for the lower tercile (upper row), along with the precipitation surplus/deficit and probability for the lower tercile (lower row) for the 7.8–13.8.2023 period (source: European Centre for Medium-Range Weather Forecasts)

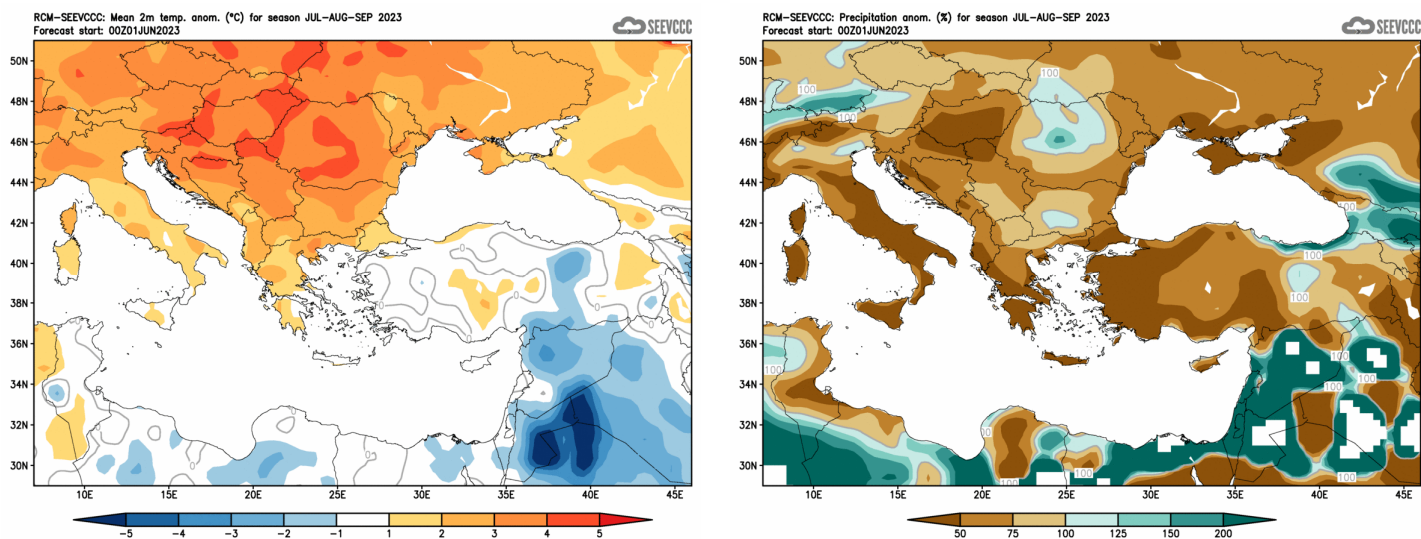


Figure 5. Mean seasonal temperature and precipitation anomaly for the season JAS (seasonal outlook from RCM – SEEVCCC)

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/>)