

Climate Watch (Serial No.: 20240520–21)

Initial/Updated/Final

Topic: **temperature and precipitation**

Organization issuing the statement: SEEVCCC

Issued/ Amended / 20-5-2024 16:00
Cancelled

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

Valid from – to: 20-5-2024 – 31-8-2024 Next amendment: 27-5-2024

Region of concern: **SEE**

„ Within the first week (13 to 19 May 2024), ECMWF monthly forecast predicts above normal mean weekly air temperature in some central and southern parts of Balkans, northern Moldova, western Ukraine, Cyprus, southwestern Turkey and Middle East, with anomaly up to +3°C (up to +6°C in Turkey and Ukraine) and 90% probability for upper tercile. Below average mean weekly air temperature is expected in the South Caucasus, with anomaly up to –6°C and up to 90% probability for exceeding lower tercile. Precipitation surplus is predicted for the Pannonian Plain, northwestern and central Balkans, with up to 90% probability for exceeding upper tercile. “

Monitoring

During the period from 12 to 18 May 2024, weekly precipitation sums were up to 25 mm in most of the SEECOF region. Precipitation sums around 50 mm were recorded in northwestern Balkans, northeastern Turkey and South Caucasus.

Outlook

Within the first week (20 to 26 May 2024), ECMWF monthly forecast predicts above normal mean weekly air temperature in some central and southern parts of Balkans, northern Moldova, western Ukraine, Cyprus, southwestern Turkey and Middle East, with anomaly up to +3°C (up to +6°C in Turkey and Ukraine) and 90% probability for upper tercile (top third of the highest temperature). Below average mean weekly air temperature is expected in the South Caucasus, with anomaly up to -6°C and up to 90% probability for exceeding lower tercile (bottom third of the lowest temperature). Precipitation surplus is predicted for the Pannonian Plain, northwestern and central Balkans, with up to 90% probability for exceeding upper tercile (top third of the highest precipitation). Precipitation deficit is expected in eastern Romania, Moldova, Ukraine and Aegean Sea, with up to 90% probability for lower tercile (bottom third of the lowest precipitation).

During the second week (27 May to 2 June 2024), average mean weekly air temperature is expected in the Pannonian Plain, northern Romania, Moldova, western Ukraine and Israel, with anomaly up to +3°C (up to +6°C in Ukraine) and around 80% probability for exceeding upper tercile (top third of the highest temperature). Precipitation deficit is predicted for Romania, Moldova and Ukraine, with around 60% probability for exceeding lower tercile (bottom third of the lowest precipitation).

During the following three months (June, July and August), seasonal forecast predicts above average seasonal air temperature in most parts of the Balkans, Ukraine, Moldova, as well as some parts of central and eastern Turkey and Georgia. Precipitation surplus is expected in the Carpathians, northeastern Turkey and Georgia. Precipitation deficit is forecasted for Pannonian Plain, coastal areas of the Balkans, southern Ukraine, Cyprus, and western, central and southern Turkey.

Update

An updated statement will be issued on 27-5-2024

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

ANNEX

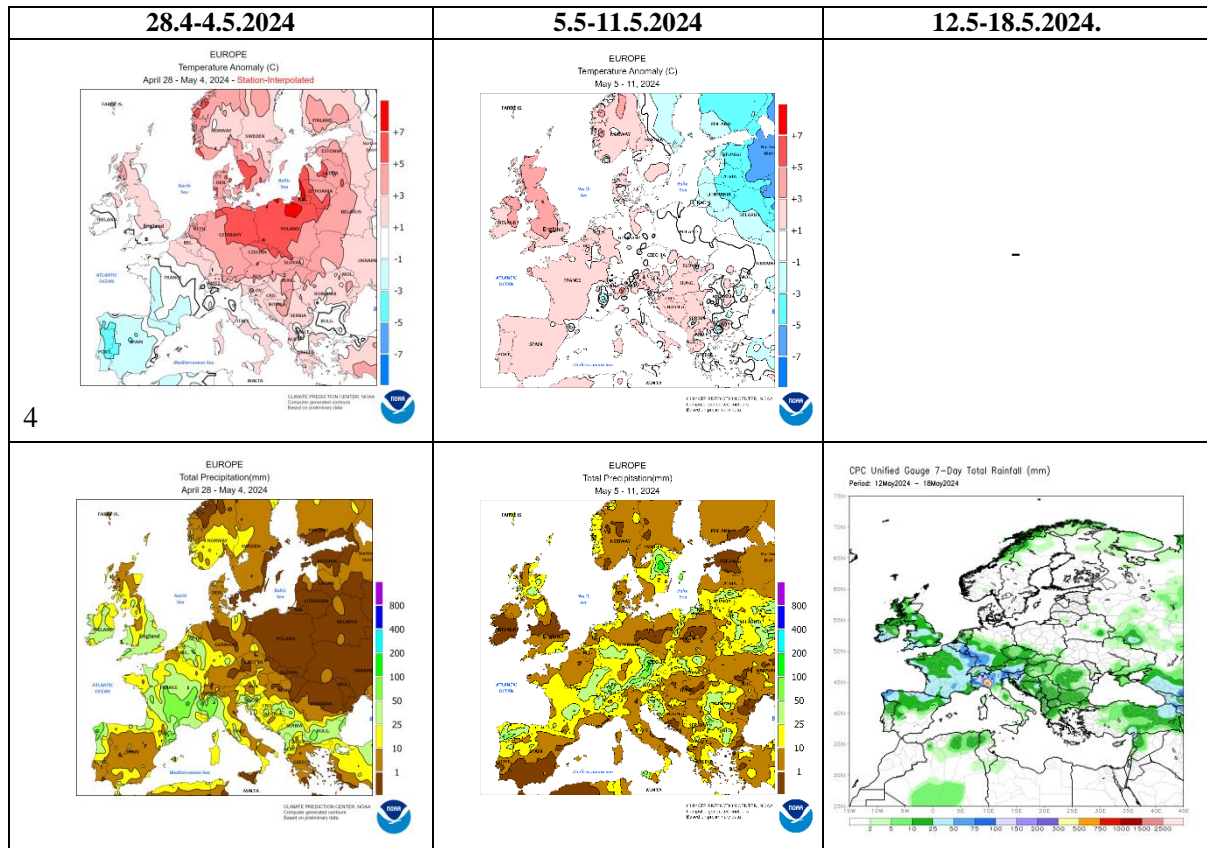


Figure 1. Temperature anomaly and total precipitation for recent weeks (source: Climate Prediction Center, USA)

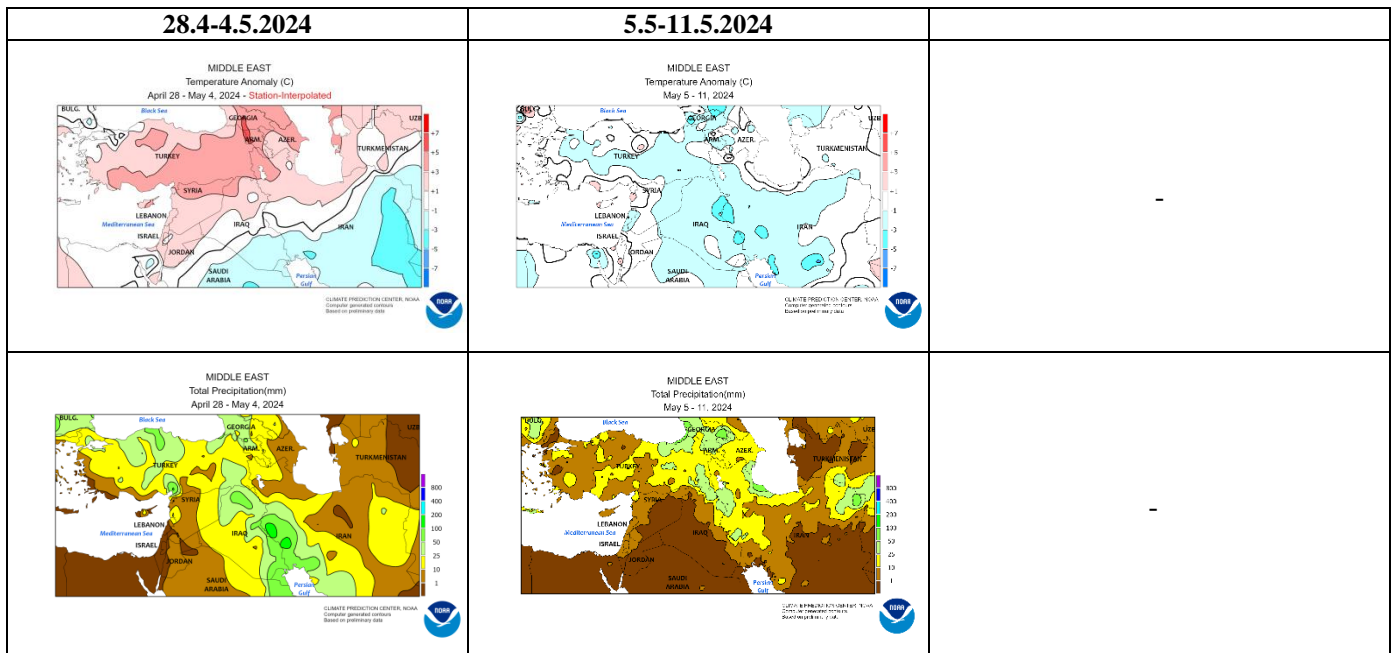
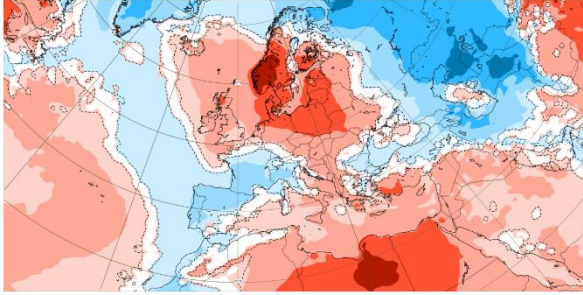


Figure 2. Temperature anomaly and total precipitation for recent weeks for Middle East (source: Climate Prediction Center)

2 m temperature: Weekly mean anomalies

Base time: Sun 18 May 2024 19:00 UTC. Min: 20 May 2024 - Max: 27 May 2024 (+1200) Area: Europe



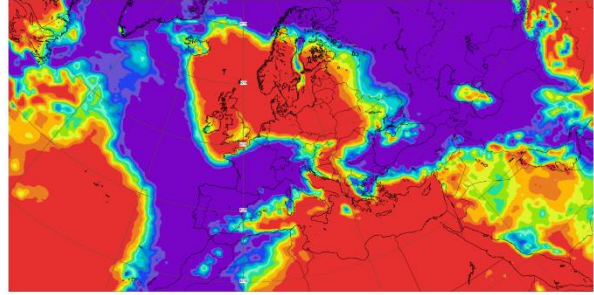
Extended range: 2 m weekly mean anomaly, significance level: 12.5% (PC)

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2 m temperature: Probability distribution

Base time: Sun 18 May 2024 19:00 UTC. Min: 20 May 2024 - Max: 27 May 2024 (+1200) Distribution group: Upper tercile Area: Europe



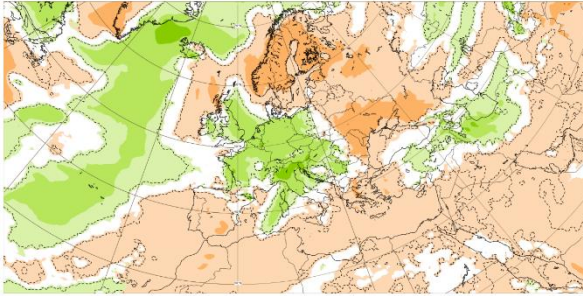
Extended range: 2 m probability dist. at quartile: Upper tercile (50)

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Precipitation: Weekly mean anomalies

Base time: Sun 18 May 2024 19:00 UTC. Min: 20 May 2024 - Max: 27 May 2024 (+1200) Area: Europe



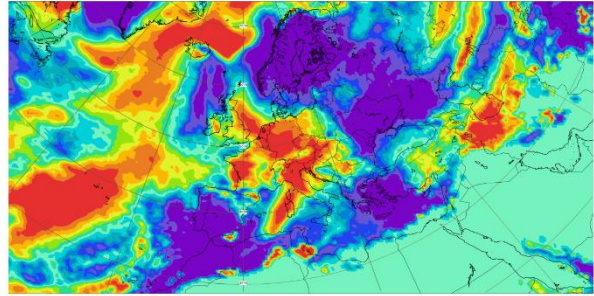
Extended range: Precipitation weekly mean anomaly, significance level: 12.5% (ms)

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Precipitation: Probability distribution

Base time: Sun 18 May 2024 19:00 UTC. Min: 20 May 2024 - Max: 27 May 2024 (+1200) Distribution group: Upper tercile Area: Europe



Extended range: precipitation probability dist. at quartile: Upper tercile (50)

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Data source: www.ecmwf.int/en/forecast



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 13.5–19.5.2024 period (source: European Centre for Medium-Range Weather Forecasts)

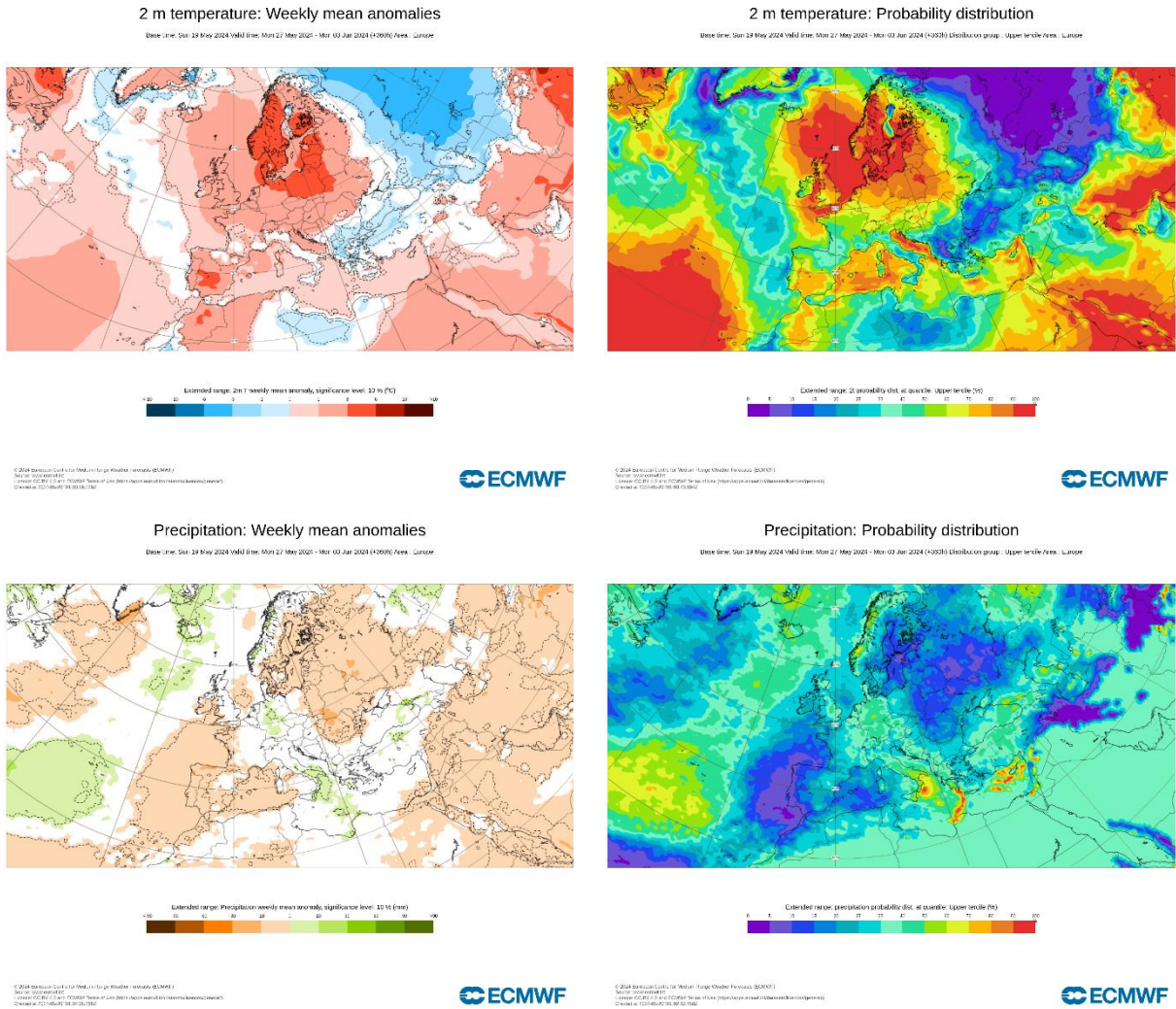


Figure 4. Outlook for the temperature anomalies and probability for the upper tercile (upper row), along with the precipitation surplus/deficit and probability for the upper tercile (lower row) for the 20.5–26.5.2024 period (source: European Centre for Medium-Range Weather Forecasts)

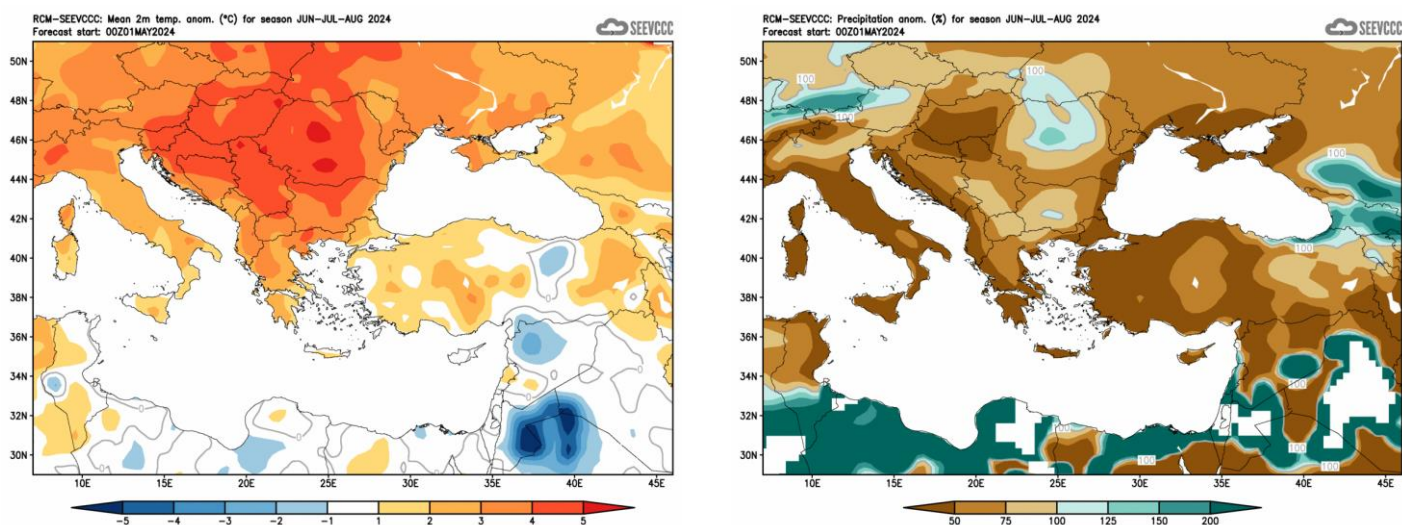


Figure 5. Mean seasonal temperature and precipitation anomaly for the season JJA (seasonal outlook from RCM – SEEVCCC)

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>)