

Climate Watch (Serial No.: 20230220–7)

Initial/Updated/Final

Topic: **precipitation** and **temperature**

Organization issuing the statement: SEEVCCC

Issued/ Amended / 20-2-2023 16:00 P.M.
Cancelled

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Valid from – to: 20-2-2023 – 30-4-2023 Next amendment: 24-2-2023

Region of concern: **SEE**

„Within the first week (20 to 26 February 2023), ECMWF monthly forecast predicts below average mean weekly air temperature, with anomaly up to -3°C , in eastern Turkey, South Caucasus and northern Middle East. Probability for exceeding lower tercile is around 60%. Above normal temperature, with anomaly up to $+6^{\circ}\text{C}$, is predicted for rest of the region with around 90% probability for exceeding upper tercile. Precipitation surplus is predicted for the Carpathian region, parts of Ukraine, northernmost Turkey, as well as Georgia with up to 90% for exceeding upper tercile.“

Monitoring

During the period from 12 to 19 February 2023, weekly precipitation sums were below 25 mm in most of the region. In parts of northeastern Turkey weekly precipitation totals were up to 100 mm.

Outlook

Within the first week (20 to 26 February 2023), ECMWF monthly forecast predicts below average mean weekly air temperature, with anomaly up to -3°C , in eastern Turkey, South Caucasus and northern Middle East. Probability for exceeding lower tercile is around 60%. Above normal temperature, with anomaly up to $+6^{\circ}\text{C}$, is predicted for rest of the region with around 90% probability for exceeding upper tercile. Precipitation surplus is predicted for Carpathian region, parts of Ukraine, northernmost Turkey, as well as Georgia with up to 90% for exceeding upper tercile. Precipitation deficit is forecasted for the southern Balkans, western Turkey and East Mediterranean with up to 90% probability for exceeding lower tercile.

During the second week (27 February to 6 March 2023), above average mean weekly air temperature, with anomaly up to $+3^{\circ}\text{C}$, is forecasted for most of the region. Probability for exceeding upper tercile is around 70%. Precipitation deficit is forecasted for parts of southern Balkans, most of Ukraine, as well as southern Turkey with up to 60% probability for exceeding lower tercile. Average precipitation sums are expected for most of the Balkans.

During the following three months (February, March and April), seasonal forecast predicts above average seasonal air temperature in northwestern and eastern Balkans, Ukraine, eastern Turkey and South Caucasus. Precipitation surplus is expected along southern part of the Adriatic Sea coast, some parts of the Carpathians, northern Turkey, western Ukraine and South Caucasus. Precipitation deficit is predicted for the northwestern and southern Balkans, southern and western Turkey and Middle East.

Update

An updated statement will be issued on 24-2-2023

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

ANNEX

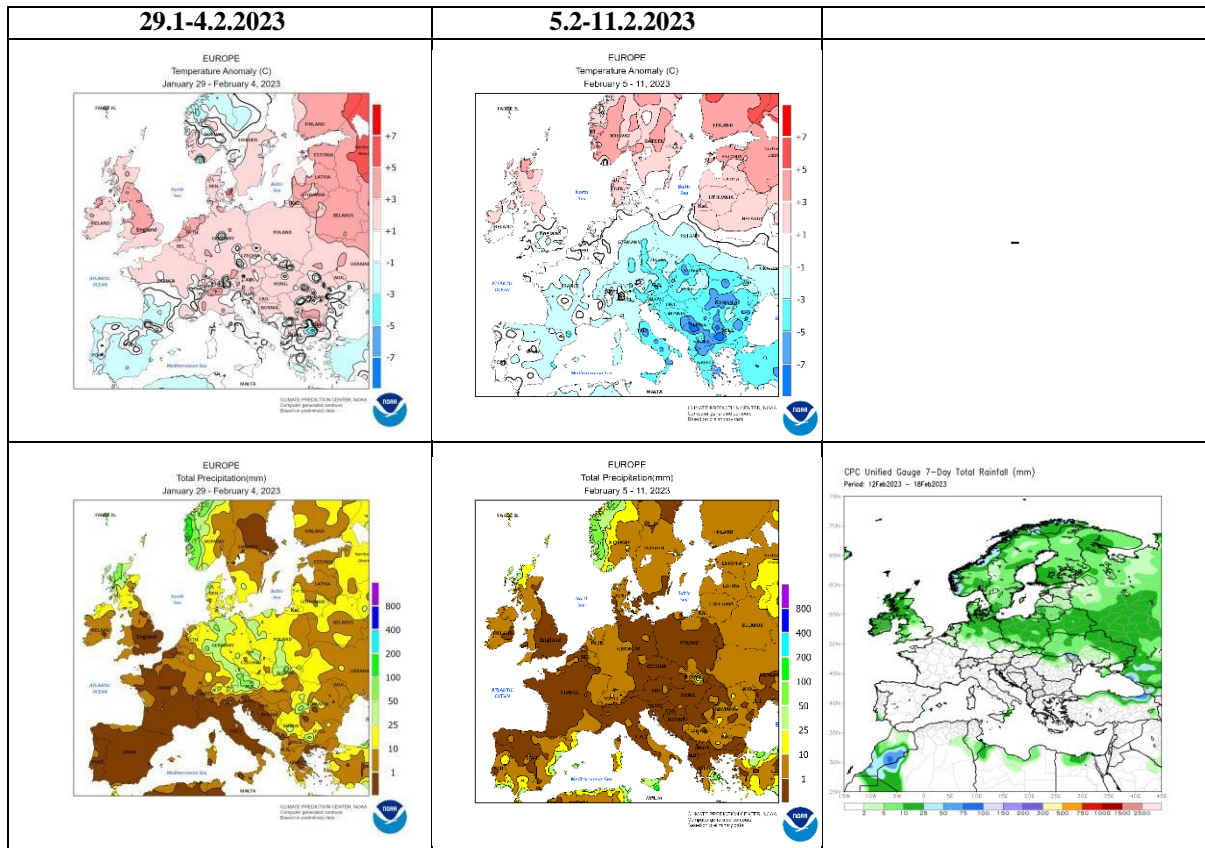


Figure 1. Temperature anomaly and total precipitation for recent weeks (source: Climate Prediction Center, USA)

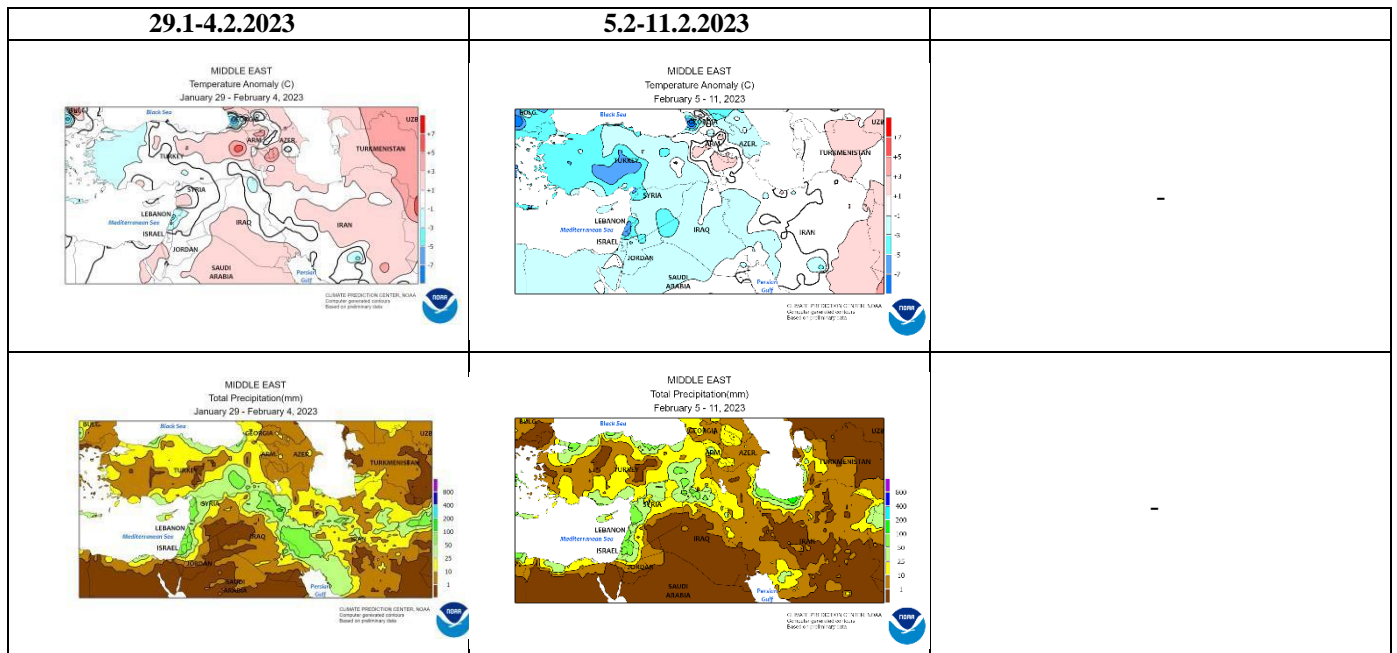


Figure 2. Temperature anomaly and total precipitation for recent weeks for Middle East (source: Climate Prediction Center)

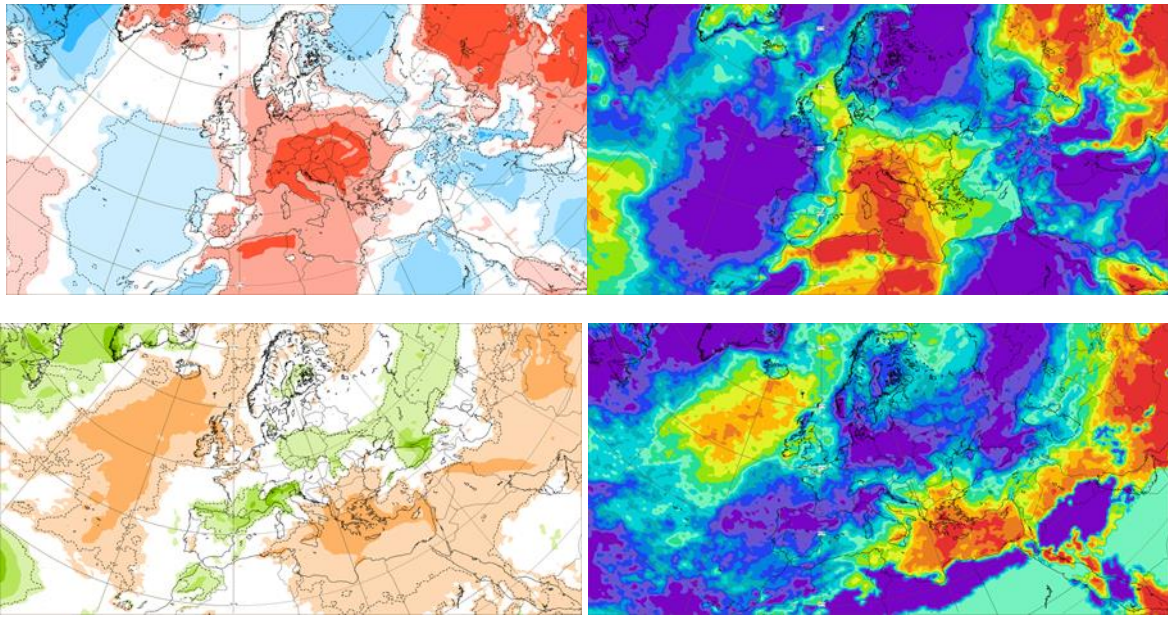


Figure 3. Outlook for the temperature anomalies and probability for the upper tercile (upper row), along with the precipitation surplus/deficit and probability for the lower tercile (lower row) for the 20.2–26.2.2023 period

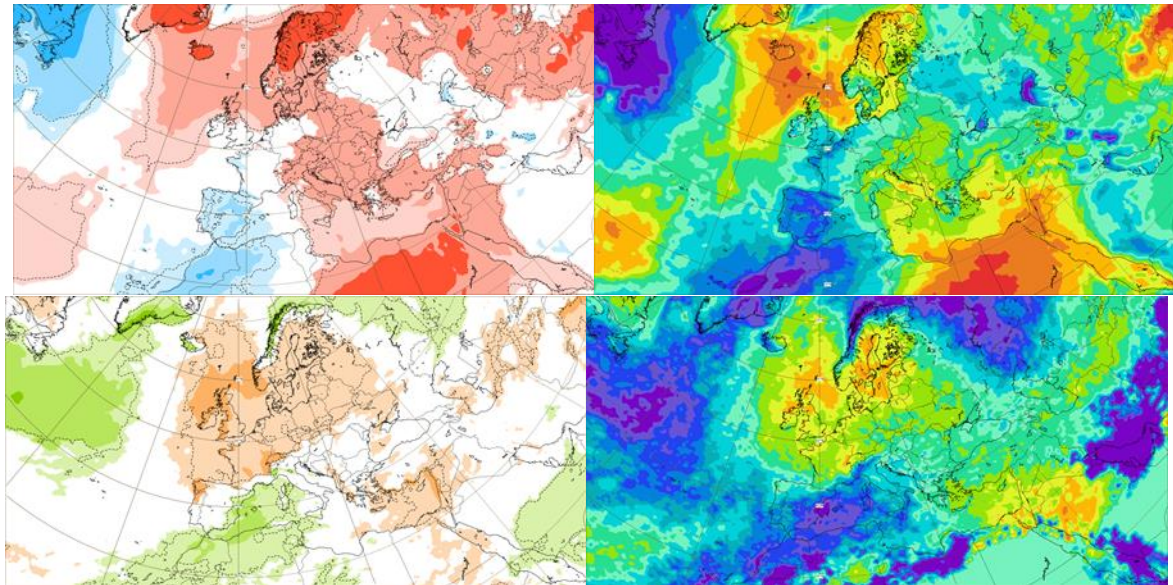


Figure 4. Outlook for the temperature anomalies and probability for the upper tercile (upper row), along with the precipitation surplus/deficit and probability for the lower tercile (lower row) for the 26.2–6.3.2023 period

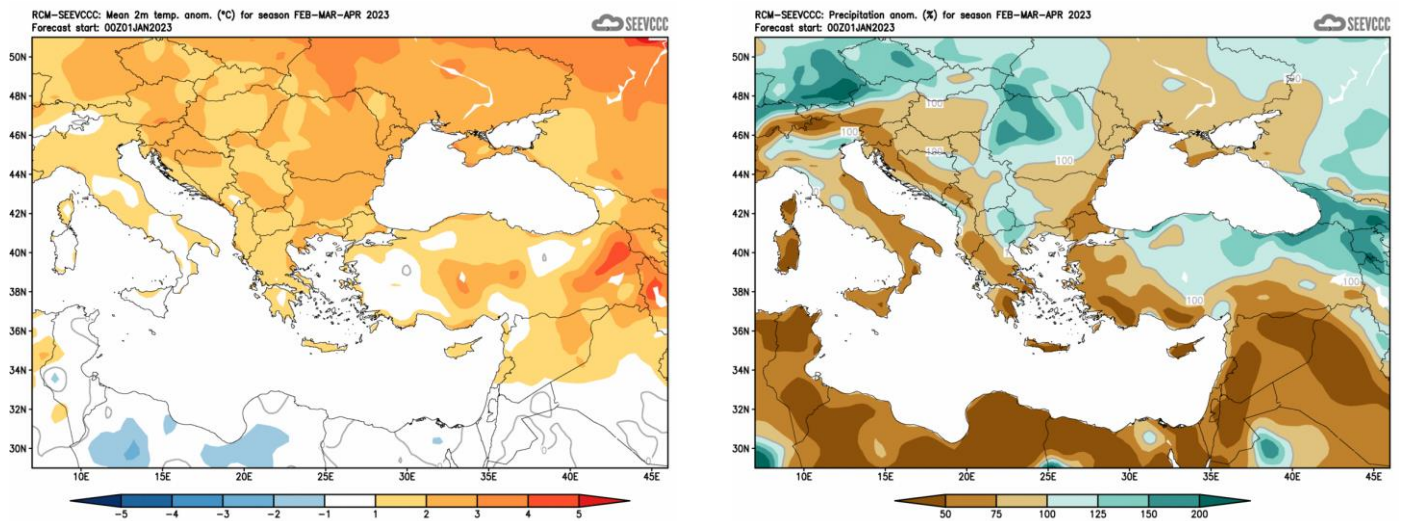


Figure 6. Mean seasonal temperature and precipitation anomaly for the season FMA (seasonal outlook from RCM – SEEVCCC)

Sources

- Republic Hydrometeorological Service of Serbia (www.hidmet.gov.rs)
- South East European Virtual Climate Change Center (www.seevccc.rs)
- European Center 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/>)