

Climate Watch (Serial No.: 20230227–8)

Initial/Updated/Final

Topic: **temperature**

Organization issuing
the statement: SEEVCCC

Issued/ Amended /
Cancelled 27-2-2023 16:00 P.M.

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Valid from – to: 27-2-2023 – 31-5-2023 Next amendment: 6-3-2023

Region of concern: **Turkey, Armenia, western Azerbaijan, Middle East**

„Within the first week (27 February to 5 March 2023), ECMWF monthly forecast predicts above average mean weekly air temperature, with anomaly up to +6°C in most of Turkey, Armenia, western Azerbaijan and Middle East. Probability for exceeding upper tercile is above 90%.“

Monitoring

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

Outlook

Within the first week (27 February to 5 March 2023), ECMWF monthly forecast predicts above average mean weekly air temperature, with anomaly in a range from +3°C in the southern and southeastern Balkans, northeastern Turkey, Georgia, eastern Azerbaijan and eastern Ukraine, up to +6°C in most of Turkey, Armenia, western Azerbaijan and Middle East. Probability for exceeding upper tercile is low in Ukraine, around 70% in the southern Balkans and Georgia, elsewhere probability is above 90%. Below normal air temperature, with anomaly up to -3°C, is predicted for part of the western Balkans, with around 70% probability for exceeding lower tercile. Precipitation surplus is predicted for the area of the Adriatic Sea and parts of eastern and southeastern Balkans with up to 80% probability for exceeding upper tercile. Precipitation deficit is forecasted for southern Turkey and southern part of Aegean Sea with up to 90% probability for exceeding lower tercile.

During the second week (6 to 12 March 2023), above average mean weekly air temperature, with anomaly up to +3°C is forecasted for the eastern and southern Balkans, most of Turkey, eastern Romania, eastern Ukraine, Georgia, with around 60% probability for exceeding upper tercile. Temperature anomaly up to +6°C is forecasted for Middle East, central Turkey, Armenia and most of Azerbaijan, with around 80% probability for exceeding upper tercile. Average precipitation sums are predicted for most of the region. Precipitation surplus is expected along the coasts of the Adriatic and Ionian Seas and westernmost part of Turkey, with around 60% probability for exceeding upper tercile.

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

Update

An updated statement will be issued on 6-3-2023

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

ANNEX

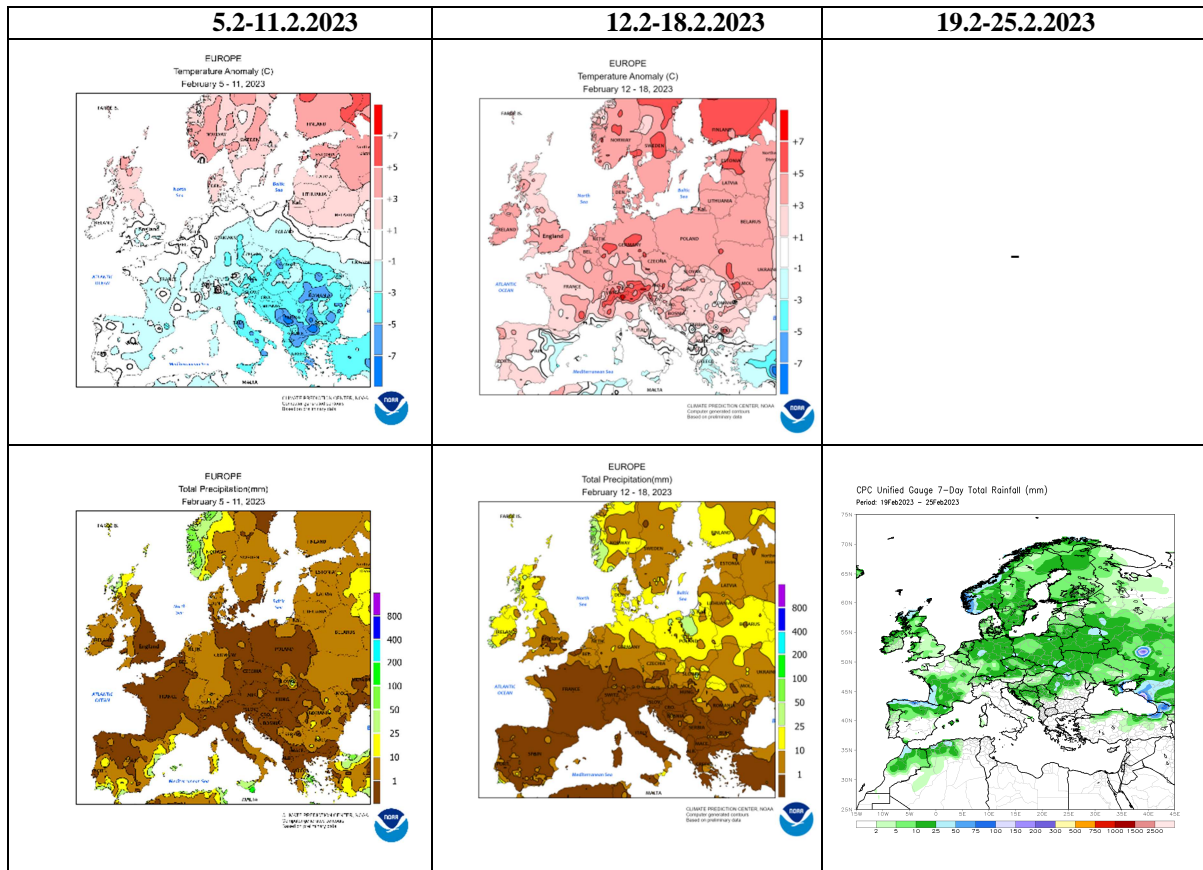


Figure 1. Temperature anomaly and total precipitation for recent weeks (source: Climate Prediction Center, USA)

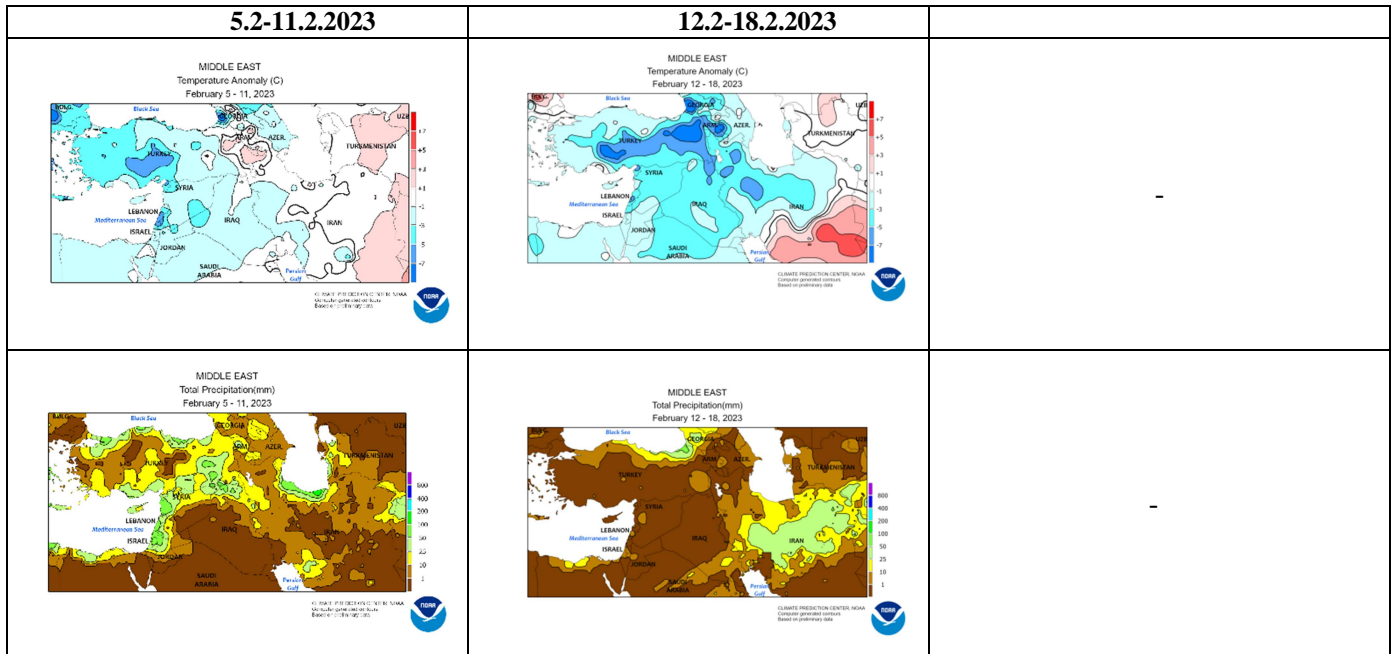


Figure 2. Temperature anomaly and total precipitation for recent weeks for Middle East (source: Climate Prediction Center)

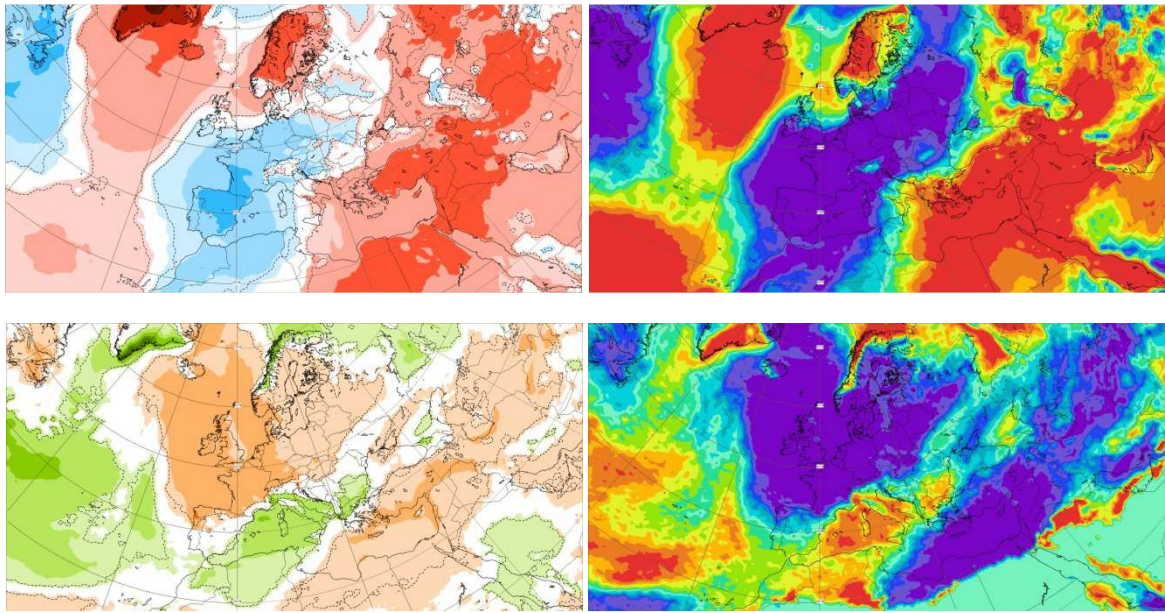


Figure 3. Outlook for the temperature anomalies and probability for the upper tercile (upper row), along with the precipitation surplus/deficit and probability for the upper tercile (lower row) for the 27.2–5.3.2023 period

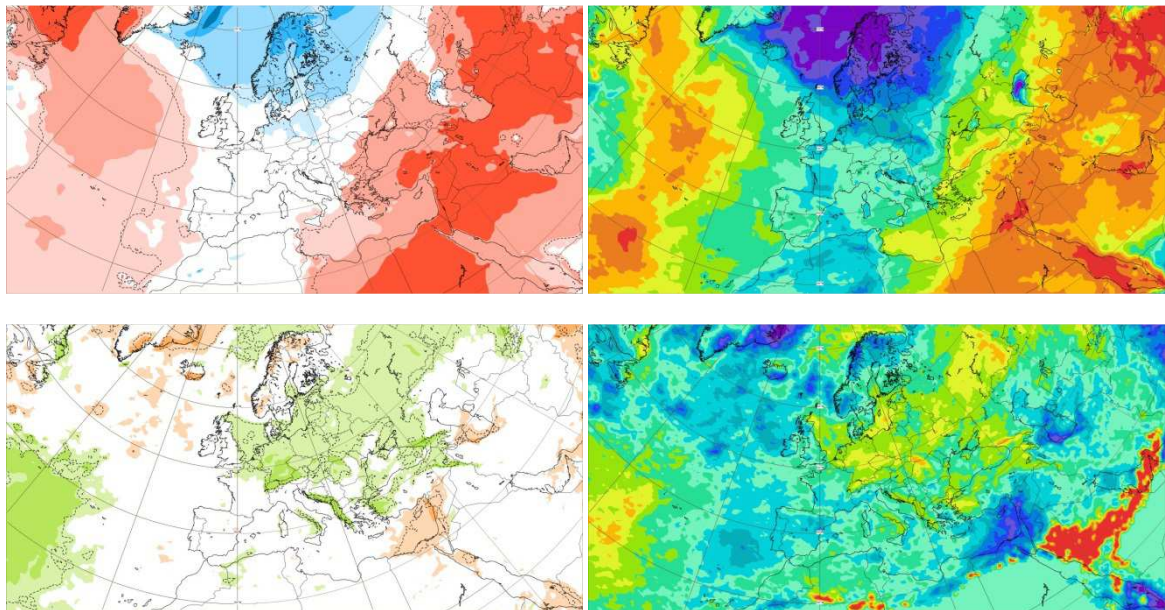


Figure 4. Outlook for the temperature anomalies and probability for the upper tercile (upper row), along with the precipitation surplus/deficit and probability for the upper tercile (lower row) for the 6.3–12.3.2023 period

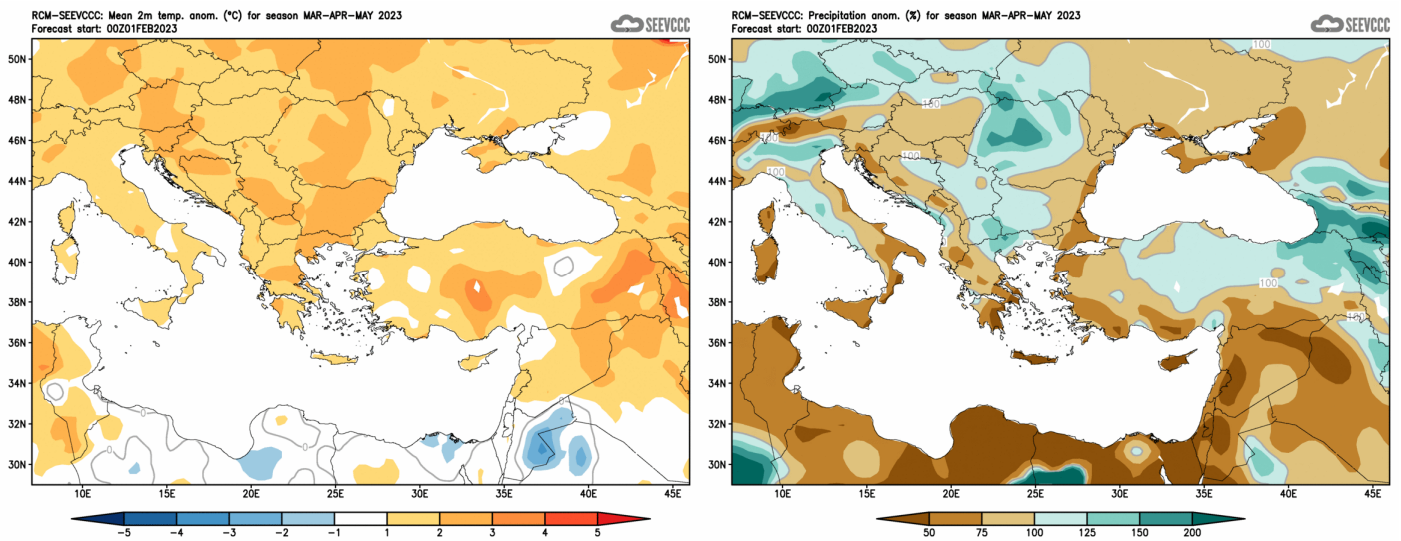


Figure 6. Mean seasonal temperature and precipitation anomaly for the season MAM (seasonal outlook from RCM – SEEVCCC)

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/>)