Climate Watch (Serial No.: 20241021–43)

Initial/Updated/Final

Topic: **temperature, precipitation**
Organization issuing the statement: SEEVCCC

Issued/ Amended / Cancelled: 21-10-2024 16:00

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

Valid from – to: 21-10-2024 – 31-1-2025 Next amendment: 28-10-2024

Region of concern: **Balkans, Turkey and South Caucasus**

„ Within the first week (21 to 27 October 2024), ECMWF monthly forecast predicts below normal mean weekly air temperature in eastern and southern Balkans with anomaly up to -3 °C, in Turkey and South Caucasus even up to -6 °C. Probability for exceeding lower tercile is up to 90%. In rest of the Balkans average temperature is expected. Precipitation deficit is predicted for most of the region, with up to 90% probability for exceeding lower tercile. “

Monitoring

During the period from 13 to 19 October 2024, weekly precipitation sums were up to 200 mm in northern Turkey and western Georgia, and up to 25 mm in other parts of the region.

Outlook

Within the first week (21 to 27 October 2024), ECMWF monthly forecast predicts below normal mean weekly air temperature in eastern and southern Balkans with anomaly up to -3 °C, in Turkey and South Caucasus even up to -6 °C. Probability for exceeding lower tercile (bottom third of the highest temperature) is up to 90%. In rest of the Balkans average temperature is expected. Precipitation deficit is predicted for most of the region, with up to 90% probability for exceeding lower tercile (bottom third of the lowest precipitation).

During the second week (28 October to 4 November 2024), below average mean weekly air temperature, with anomaly up to –1 °C, is forecasted for western Balkans and eastern Turkey, with up to 60% probability for exceeding lower tercile (bottom third of the lowest temperature). Average precipitation sums are predicted for most of the region.

During the following three months (November, December and January), seasonal forecast predicts above average seasonal air temperature in most of the Balkans, Cyprus, Turkey, South Caucasus and Middle East. Precipitation surplus is expected in the southern Aegean Sea and northeastern coastal part of Turkey. Precipitation deficit is forecasted for parts of Pannonian Plain, Cyprus, southeastern Turkey and Middle East.

Update

An updated statement will be issued on 28-10-2024

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

ANNEX

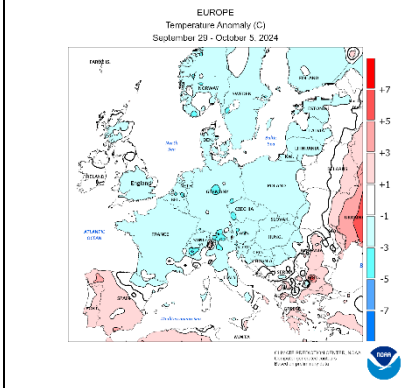
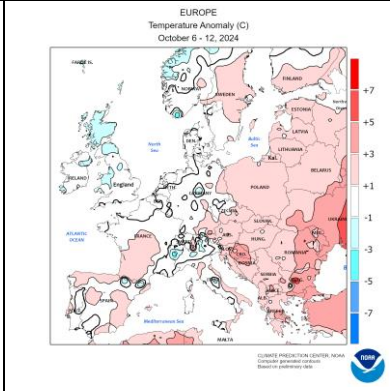
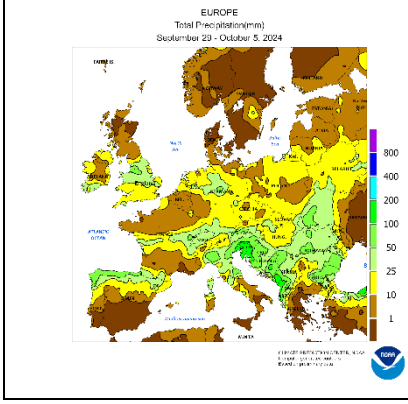
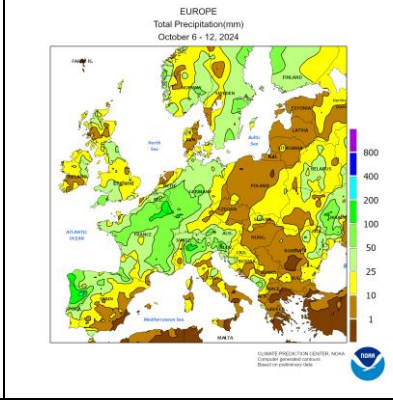
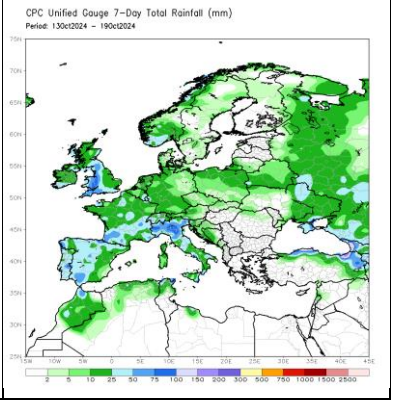
29.9-5.10.2024	6.10-12.10.2024	13.10-19.10.2024
		-
		

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

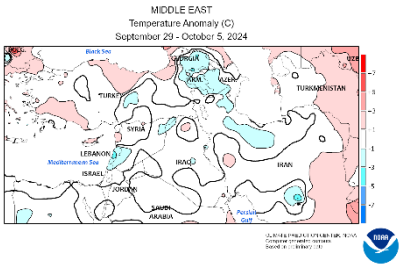
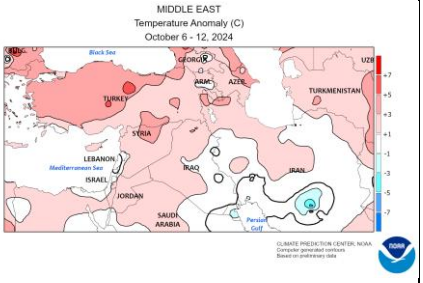
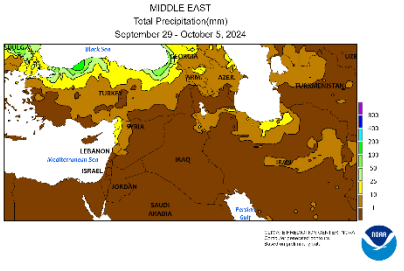
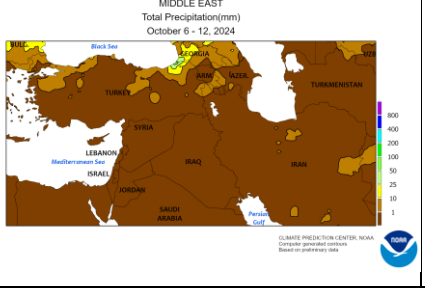
29.9-5.10.2024	6.10-12.10.2024	-
		-
		-

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

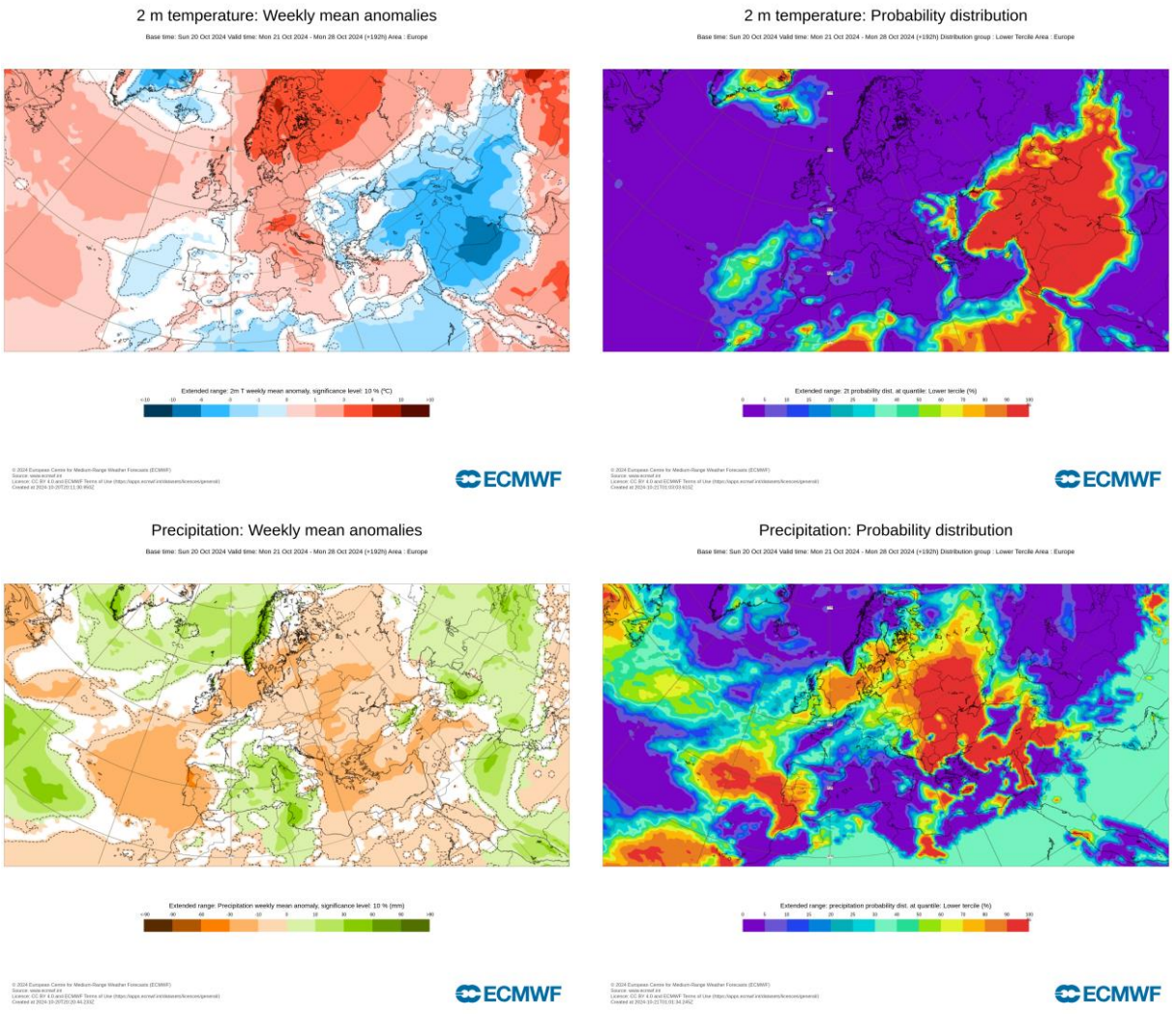


Figure 3. Outlook for the temperature anomalies and probability for the lower tercile (upper row), along with the precipitation surplus/deficit and probability for the lower tercile (lower row) for the 21.10–27.10.2024 period (source: European Centre for Medium-Range Weather Forecasts, ECMWF)

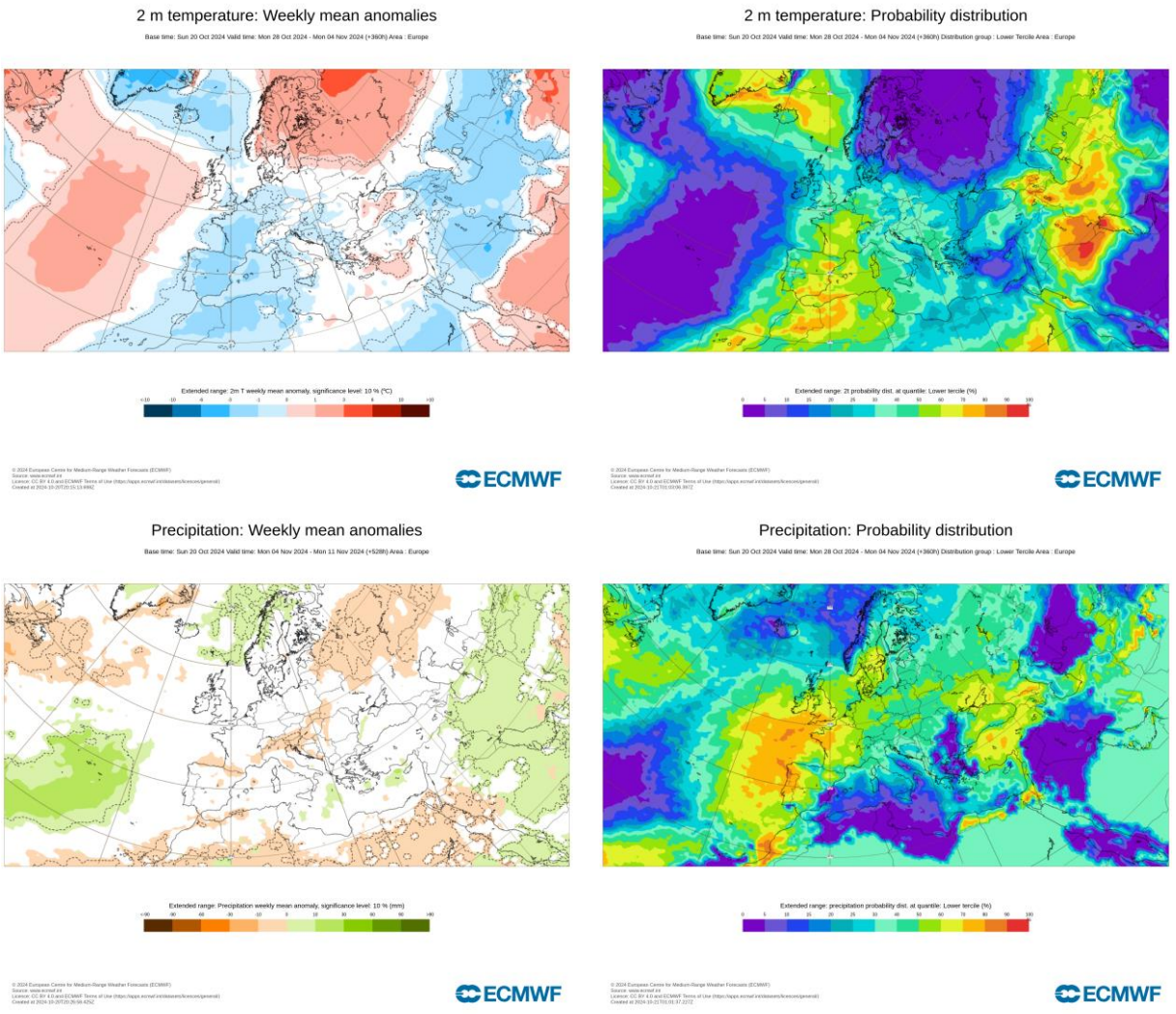


Figure 4. Outlook for the temperature anomalies and probability for the lower tercile (upper row), along with the precipitation surplus/deficit and probability for the lower tercile (lower row) for the 28.10–4.11.2024 period (source: ECMWF)

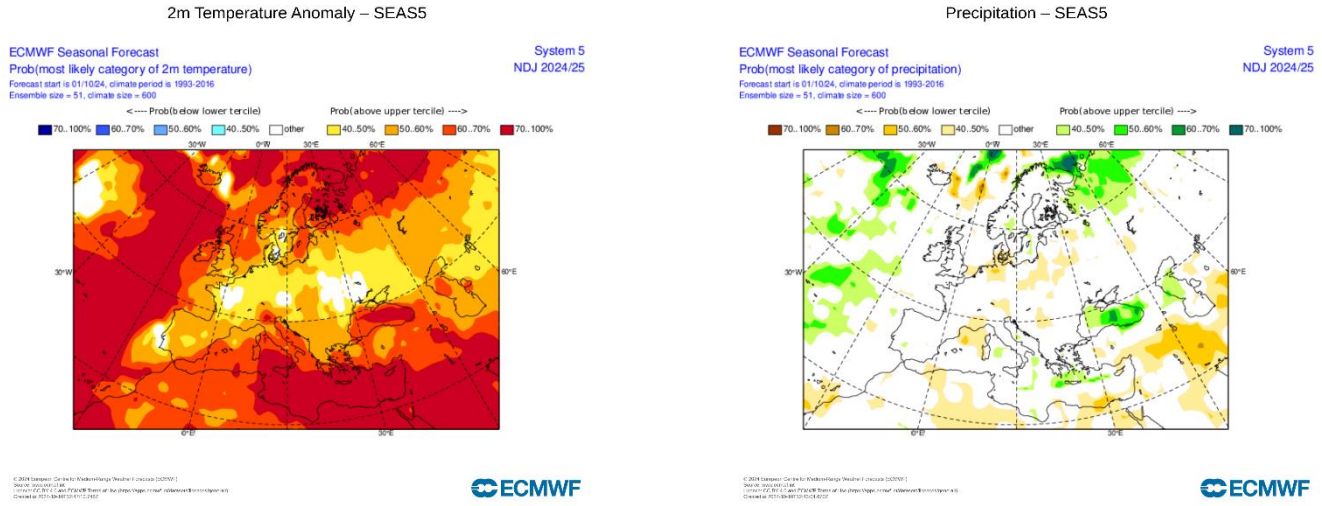


Figure 5. Mean seasonal air temperature and precipitation anomaly probabilities for the season NDJ (source: ECMWF)

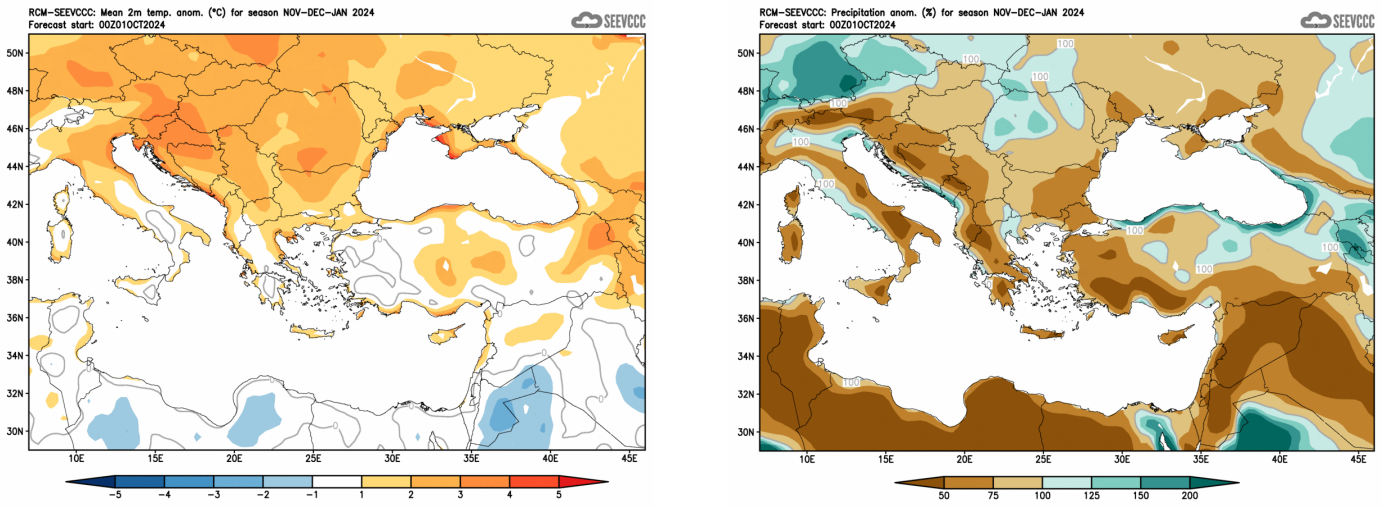


Figure 6. Mean seasonal temperature and precipitation anomaly for the season NDJ (seasonal outlook from RCM – SEEVCCC)

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)