Climate Watch (Serial No.: 20231225–51)

Initial/Updated/Final

Topic: **precipitation**

Organization issuing the statement:	SEEVCCC
Issued/ Amended / Cancelled	25-12-2023 16:00 P.M.
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Valid from – to: 25-12-2023 – 31-3-2024 Next amendment: 1-1-2024

Region of concern: **the Balkans, Ukraine, Turkey**

„ Within the second week (1 to 7 January 2024), ECMWF monthly forecast predicts precipitation surplus in the Balkans, Ukraine and Turkey. Probability for exceeding upper tercile (top third of the highest precipitation) is around 60%, even up to 80% in the Carpathian Mountains and central Balkans. “

Monitoring

During the period from 17 to 23 December 2023, weekly precipitation sums were up to 75 mm in the southwestern Turkey, while in rest of the region precipitation totals were up to 25 mm.

Outlook

Within the first week (25 to 31 December 2023), ECMWF monthly forecast predicts above average mean weekly air temperature in the entire region, with anomaly up to +6°C. Probability for exceeding upper tercile (top third of the highest temperature) is around 90%. Precipitation deficit is expected in almost the entire region, with around 80% probability for exceeding lower tercile (bottom third of the lowest precipitation).

During the second week (1 to 7 January 2024), above normal mean weekly air temperature is forecasted for the entire region, with anomaly up to +6°C. Probability for exceeding upper tercile (top third of the highest temperature) is around 80% in the Balkans, while in Turkey and South Caucasus it is up to 90%. Precipitation surplus is expected in the Balkans, Ukraine and Turkey. Probability for exceeding upper tercile (top third of the highest precipitation) is around 60%, even up to 80% in the Carpathian Mountains and central Balkans.

During the following three months (January, February and March), seasonal forecast predicts above average seasonal air temperature in northwestern, central and eastern Balkans, Carpathian Mountains, Moldova, Ukraine, central and eastern Turkey. Precipitation surplus is expected in the Carpathians, along Adriatic coast, northern, central and eastern Turkey and South Caucasus.

Update

An updated statement will be issued on 1-1-2024

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

ANNEX

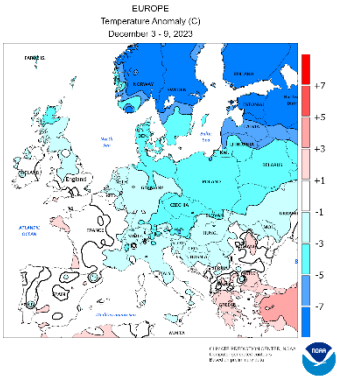
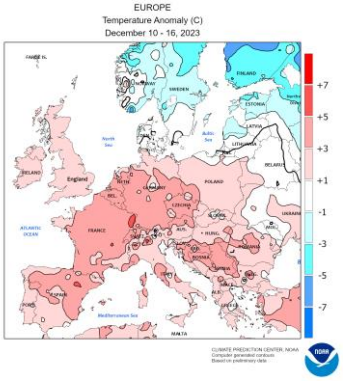
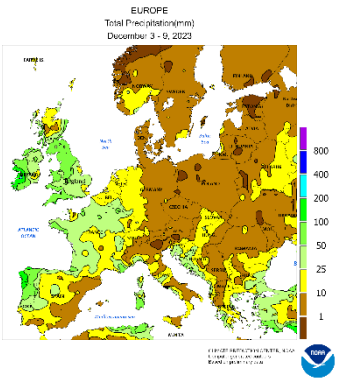
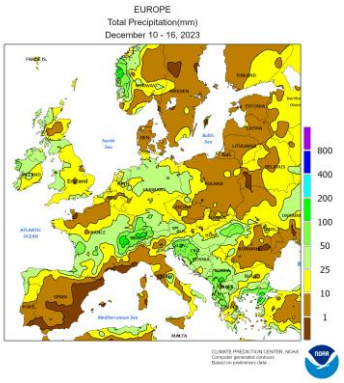
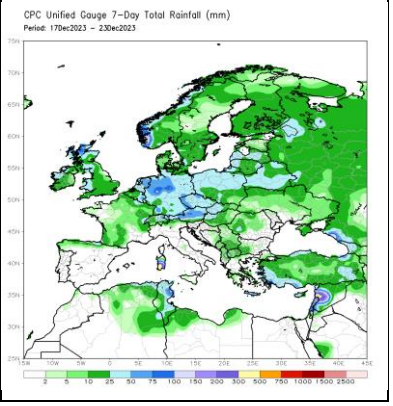
3.12-9.12.2023	10.12-16.12.2023	17.12-23.12.2023
		-
		

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

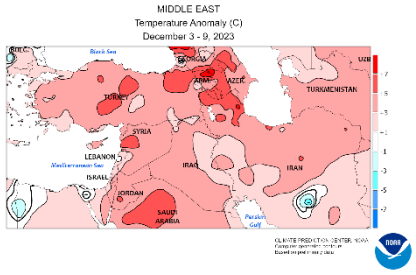
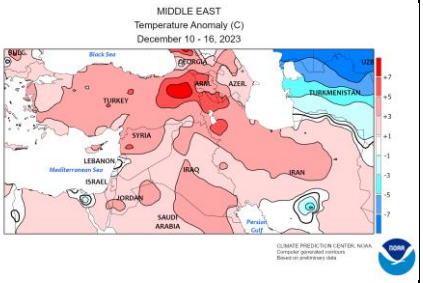
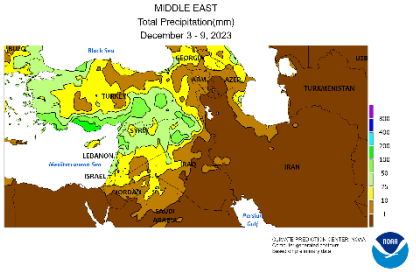
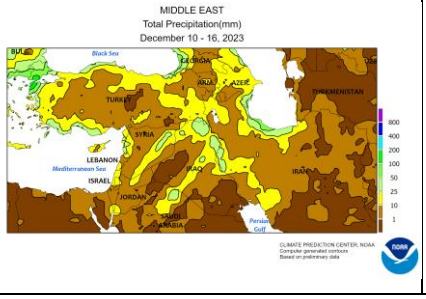
3.12-9.12.2023	10.12-16.12.2023	
		-
		-

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

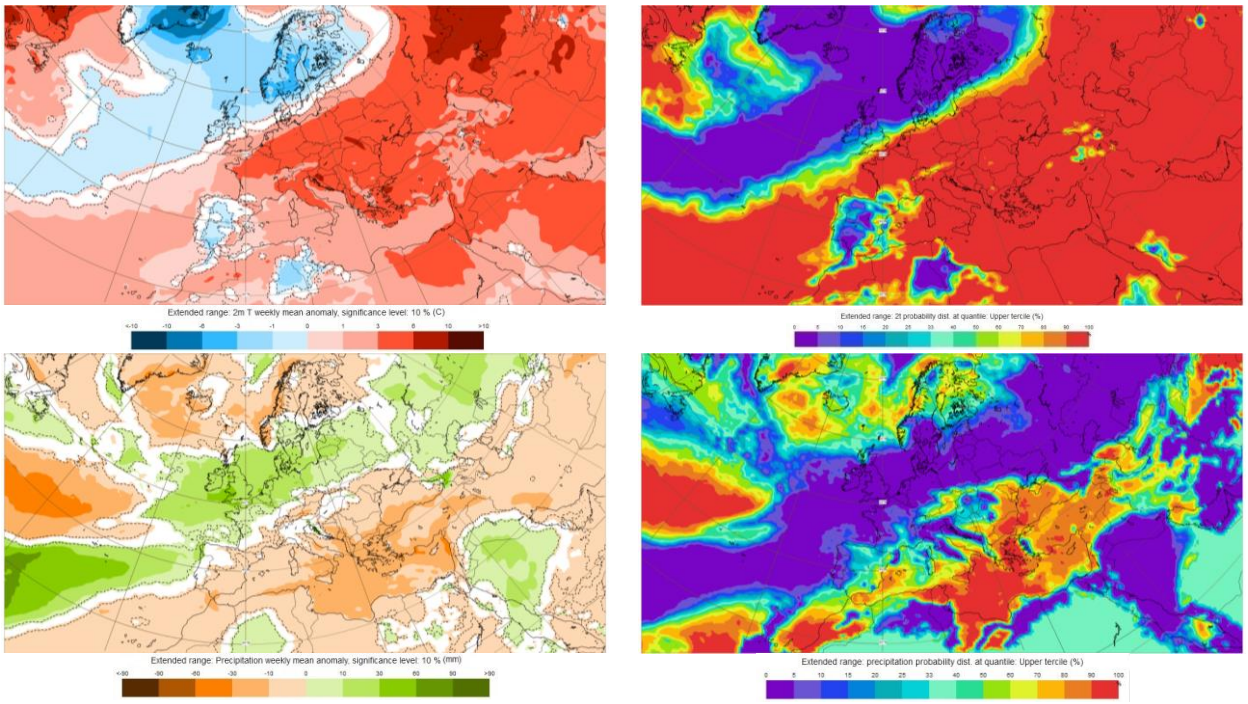


Figure 3. Outlook for the temperature anomalies and probability for the upper tercile (upper row), along with the precipitation surplus/deficit and probability for the lower tercile (lower row) for the 25.12–31.12.2023 period (source: European Centre for Medium-Range Weather Forecasts)

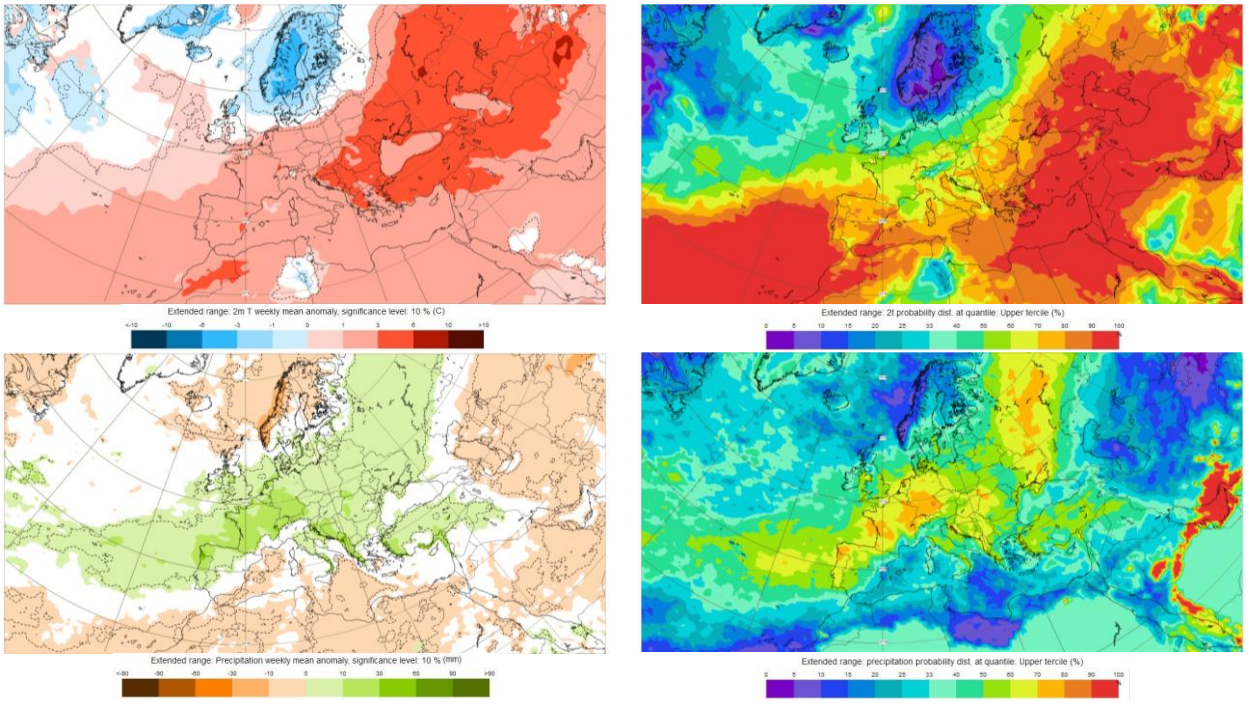


Figure 4. Outlook for the temperature anomalies and probability for the upper tercile (upper row), along with the precipitation surplus/deficit and probability for the upper tercile (lower row) for the 1.1–7.1.2024 period (source: European Centre for Medium-Range Weather Forecasts)

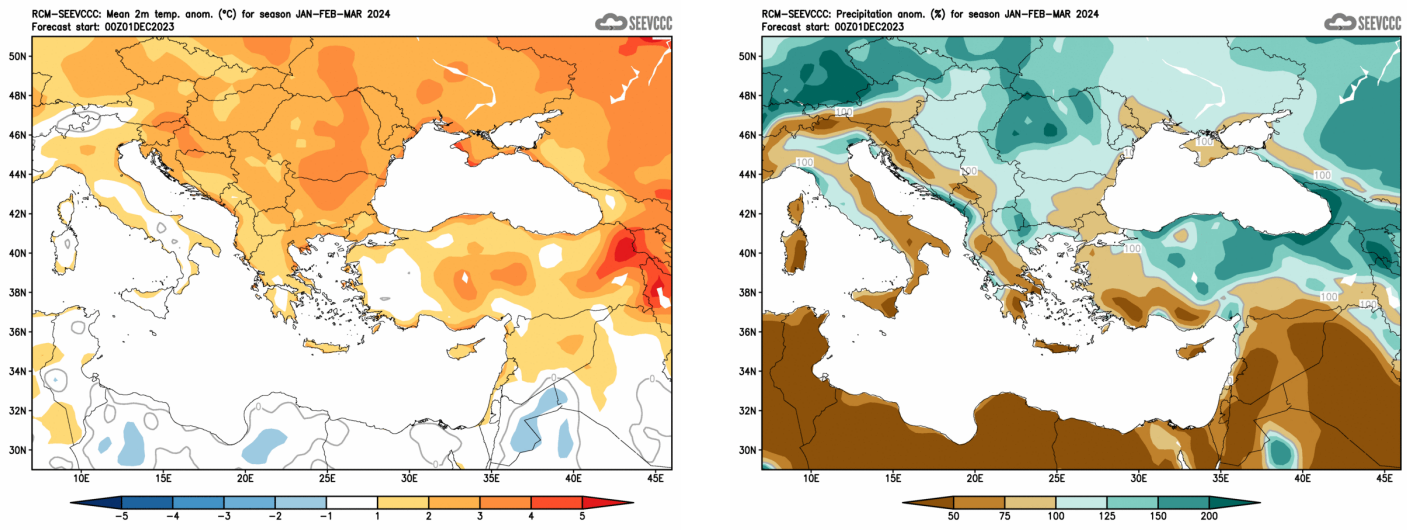


Figure 5. Mean seasonal temperature and precipitation anomaly for the season JFM (seasonal outlook from RCM – SEEVCCC)

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/)