Climate Watch (Serial No.: 20231002–39)

Initial/Updated/Final

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

Issued/ Amended / Cancelled: 2-10-2023 16:00 P.M.

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

Valid from – to: 2-10-2023 – 31-12-2023 Next amendment: 9-10-2023

Region of concern: **SEE**

„ Within the first week (2 to 8 October 2023), ECMWF monthly forecast predicts above average mean weekly air temperature in most of the Balkans, Moldova and Ukraine with anomaly up to +3°C, and below normal temperature in most of Turkey and South Caucasus with anomaly in the range from -3°C to -6°C. Probability for exceeding upper/lower tercile (top/bottom third of the highest/lowest temperature) is up to 90%. Precipitation surplus is expected in some parts of central and eastern Turkey and South Caucasus, with 90% probability for exceeding upper tercile (top third of the highest precipitation). Precipitation deficit is expected in most of the Balkans and western Turkey, with probability up to 90% for exceeding lower tercile (bottom third of the lowest precipitation). “

Monitoring

During the period from 24 to 30 September 2023, weekly precipitation sums reached 75 mm in the western Balkans and some part of western Turkey. In rest of the region precipitation sums were below 25 mm.

Outlook

Within the first week (2 to 8 October 2023), ECMWF monthly forecast predicts above average mean weekly air temperature in most of the Balkans, Moldova and Ukraine with anomaly up to +3°C, and below normal temperature in most of Turkey and South Caucasus with anomaly in the range from -3°C to -6°C. Probability for exceeding upper/lower tercile (top/bottom third of the highest/lowest temperature) is up to 90%. Precipitation surplus is expected in some parts of central and eastern Turkey and South Caucasus, with 90% probability for exceeding upper tercile (top third of the highest precipitation). Precipitation deficit is expected in most of the Balkans and western Turkey, with probability up to 90% for exceeding lower tercile (bottom third of the lowest precipitation).

During the second week (9 to 15 October 2023), above normal mean weekly air temperature, with anomaly up to +3°C, is forecasted for most of the Balkans, Moldova and Ukraine. Probability for exceeding upper tercile (top third of the highest temperature) is around 70%. Precipitation deficit is predicted for most of the Balkans, Moldova, Ukraine and Turkey with probability around 70% for exceeding lower tercile (bottom third of the lowest precipitation).

During the following three months (October, November and December), seasonal forecast predicts above average seasonal air temperature in the western, northern and parts of central and eastern Balkans, most of Romania, western and part of central Ukraine. Below average seasonal air temperature is expected in some locations in Jordan. Precipitation surplus is expected in the Carpathians, along Adriatic coast, costal part of northern Turkey and eastern Georgia. Precipitation deficit is predicted for western and southern Turkey, Cyprus and most of the Balkans.

Update

An updated statement will be issued on 9-10-2023

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

ANNEX

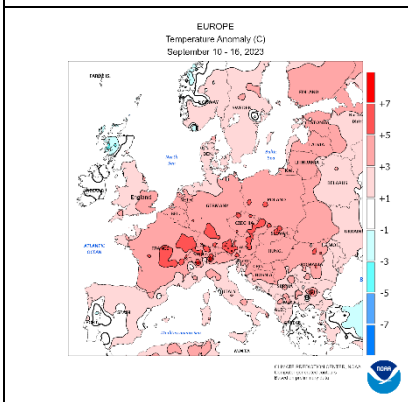
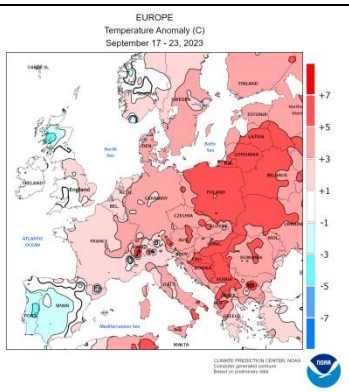
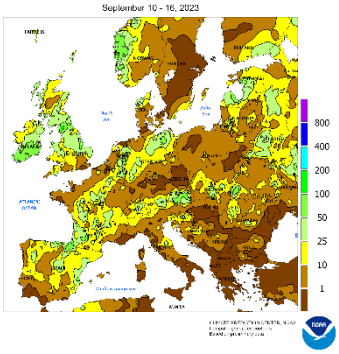
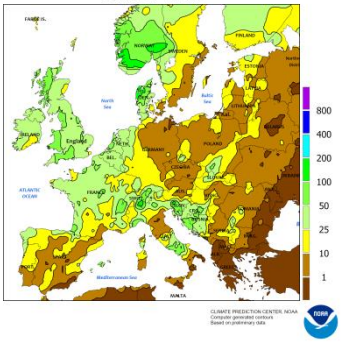
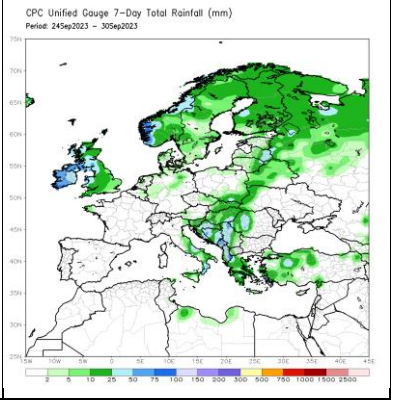
10.9-16.9.2023	17.9-23.9.2023	24.9-30.9.2023
		-
		

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

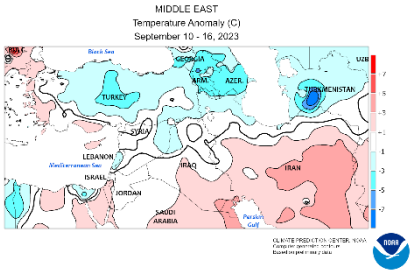
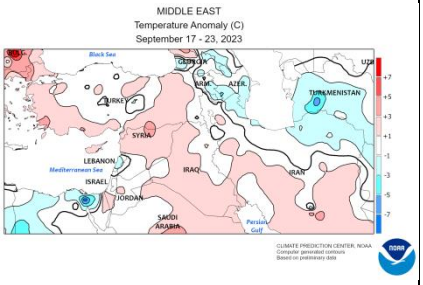
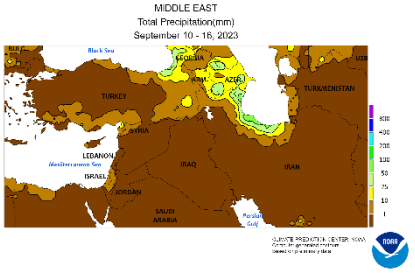
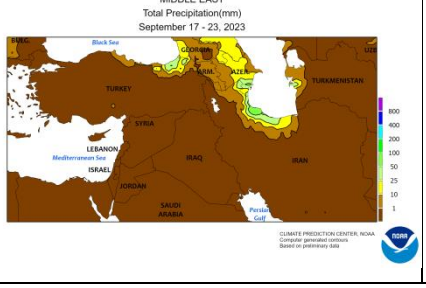
10.9-16.9.2023	17.9-23.9.2023	24.9-30.9.2023
		-
		-

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

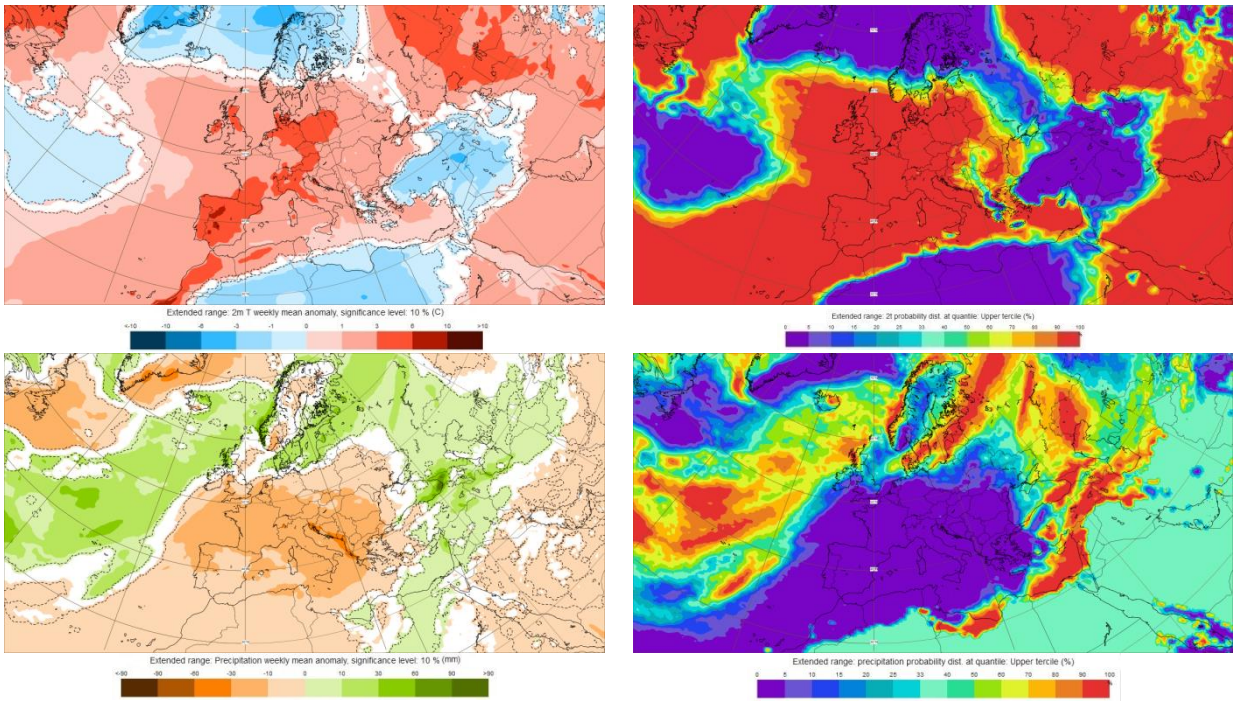


Figure 3. Outlook for the temperature anomalies and probability for the upper tercile (upper row), along with the precipitation surplus/deficit and probability for the upper tercile (lower row) for the 2.10–8.10.2023 period (source: European Centre for Medium-Range Weather Forecasts)

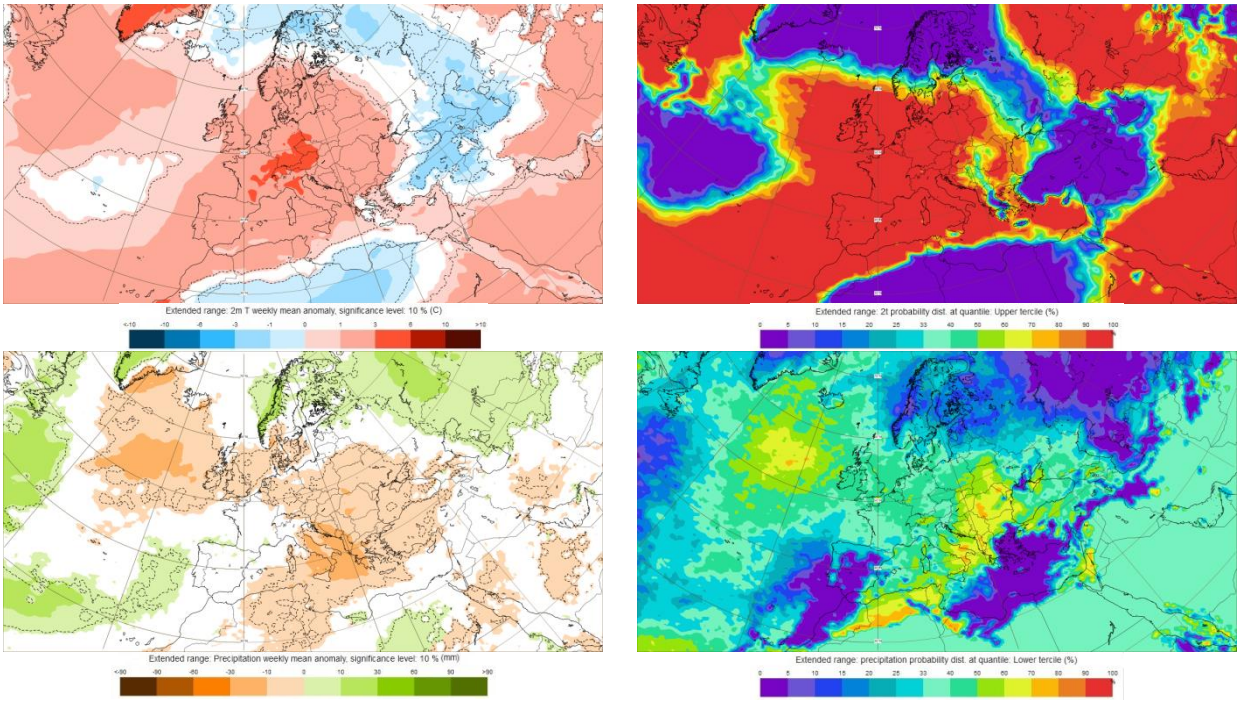


Figure 4. Outlook for the temperature anomalies and probability for the upper tercile (upper row), along with the precipitation surplus/deficit and probability for the lower tercile (lower row) for the 9.10–15.10.2023 period (source: European Centre for Medium-Range Weather Forecasts)

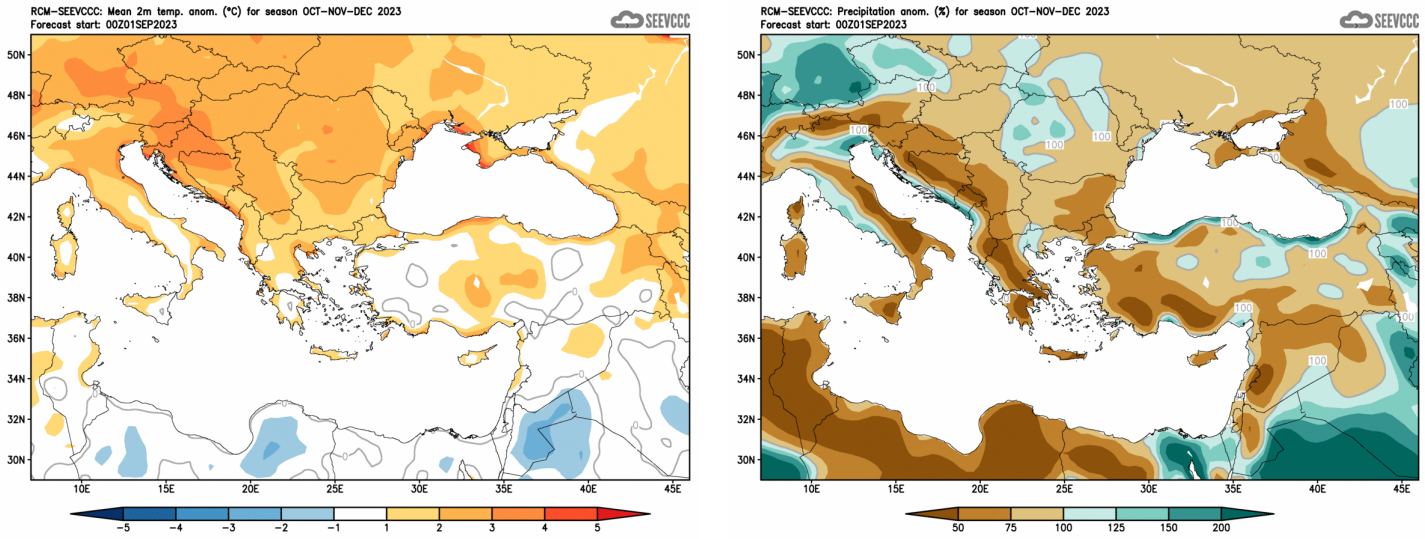


Figure 5. Mean seasonal temperature and precipitation anomaly for the season OND (seasonal outlook from RCM – SEEVCCC)

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/)