Climate Watch (Serial No.: 20230116–2)

Initial/Updated/Final

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

Issued/ Amended / Cancelled: 16-1-2023 16:00 P.M.

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Valid from – to: 16-1-2023 – 31-3-2023 Next amendment: 23-1-2023

Region of concern: **Balkans, Pannonian Plain and Carpathian region**

„Within the first week (16 to 22 January 2023), ECMWF monthly forecast predicts above average mean weekly air temperature, with anomaly up to +10°C, in Moldova, most of Ukraine, most of Romania and eastern Bulgaria, and up to +6°C in rest of the region. Probability for exceeding upper tercile is around 80% in the western Balkans and up to 100% in the remainder of the region. Precipitation surplus is forecasted for the Balkans, Pannonian Plain and Carpathian region, with probability for exceeding upper tercile in a range from 70% up to 90%.“

Monitoring

During the period from 8 to 14 January 2023, weekly precipitation sums in most of the Balkans, except central and southeastern parts, were in a range from 25 mm up to 75 mm, and in southwestern Turkey up to 100 mm. In rest of the SEE region weekly precipitation totals were below 25 mm.

Outlook

Within the first week (16 to 22 January 2023), ECMWF monthly forecast predicts above average mean weekly air temperature, with anomaly up to +10°C, in Moldova, most of Ukraine, most of Romania and eastern Bulgaria, and up to +6°C in rest of the region. Probability for exceeding upper tercile is around 80% in the western Balkans and up to 100% in the remainder of the region. Precipitation surplus is forecasted for the Balkans, Pannonian Plain and Carpathian region, with probability for exceeding upper tercile in a range from 70% up to 90%.

During the second week (23 to 29 January 2023), above average mean weekly air temperature is forecasted for northern and eastern Turkey, Armenia, Moldova, Ukraine and most of Romania, with anomaly up to +3°C. Probability for exceeding upper tercile is around 60% and in Turkey and Armenia around 80%. Precipitation deficit is expected in the southwestern Balkans and southwestern and eastern Turkey, with around 60% probability for exceeding lower tercile.

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

Update

An updated statement will be issued on 23-1-2023

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

ANNEX

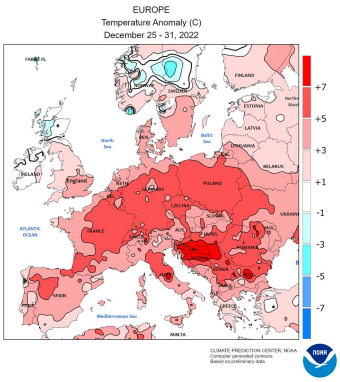
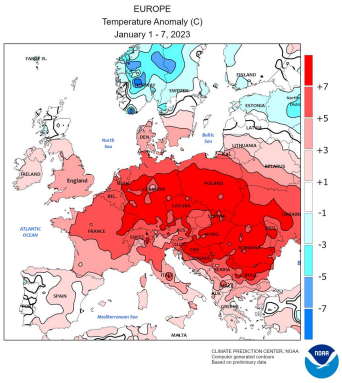
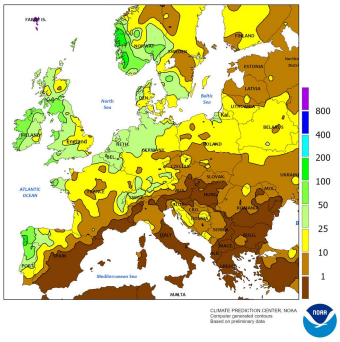
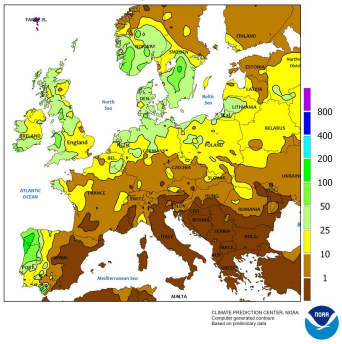
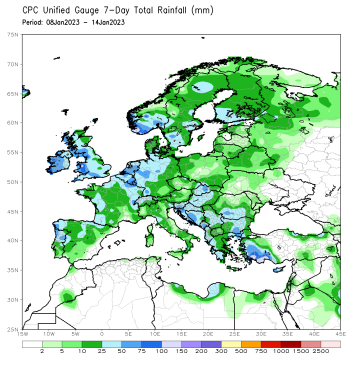
25.12-31.12.2022	1.1-7.1.2023	8.1-14.1.2023
		-
		

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

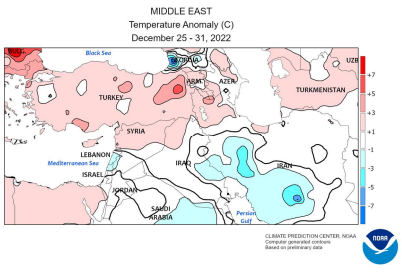
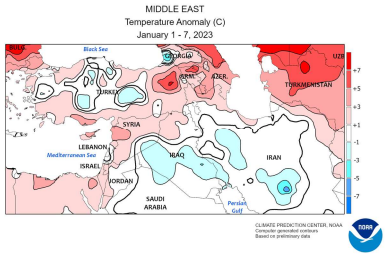
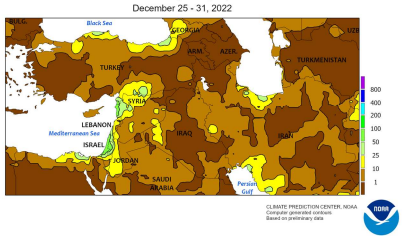
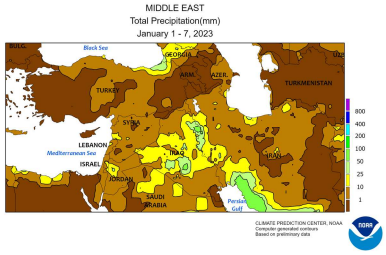
25.12-31.12.2022	1.1-7.1.2023	
		-
		-

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

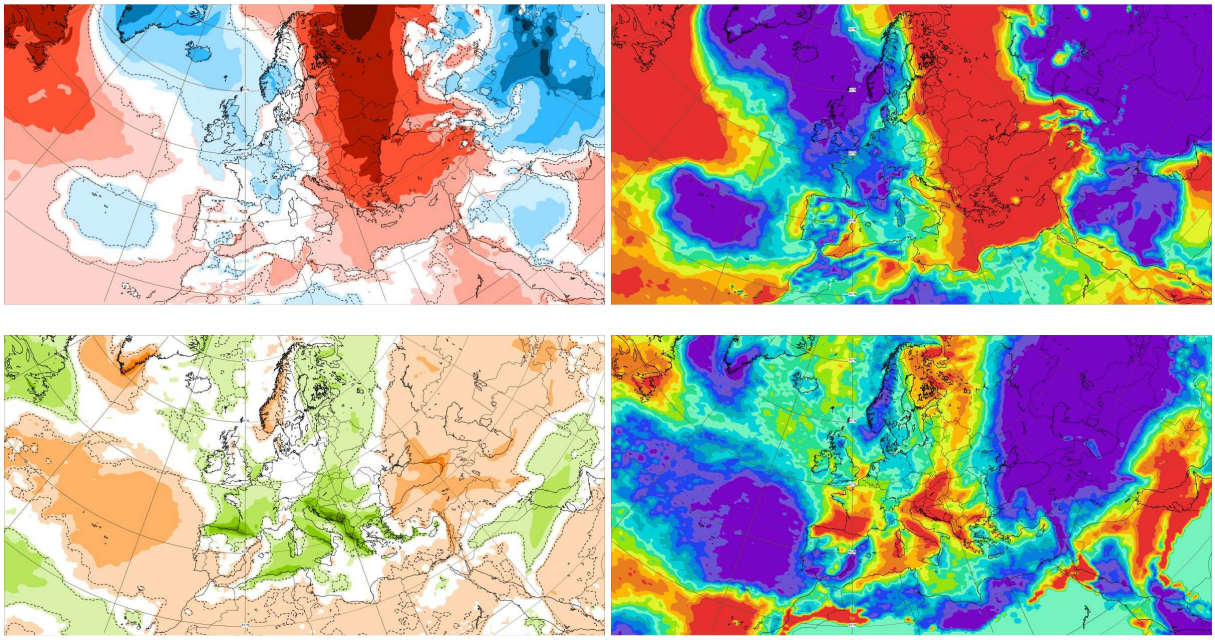


Figure 3. Outlook for the temperature anomalies and probability for the upper tercile (upper row), along with the precipitation surplus/deficit and probability for the upper tercile (lower row) for the 16.1–22.1.2023 period

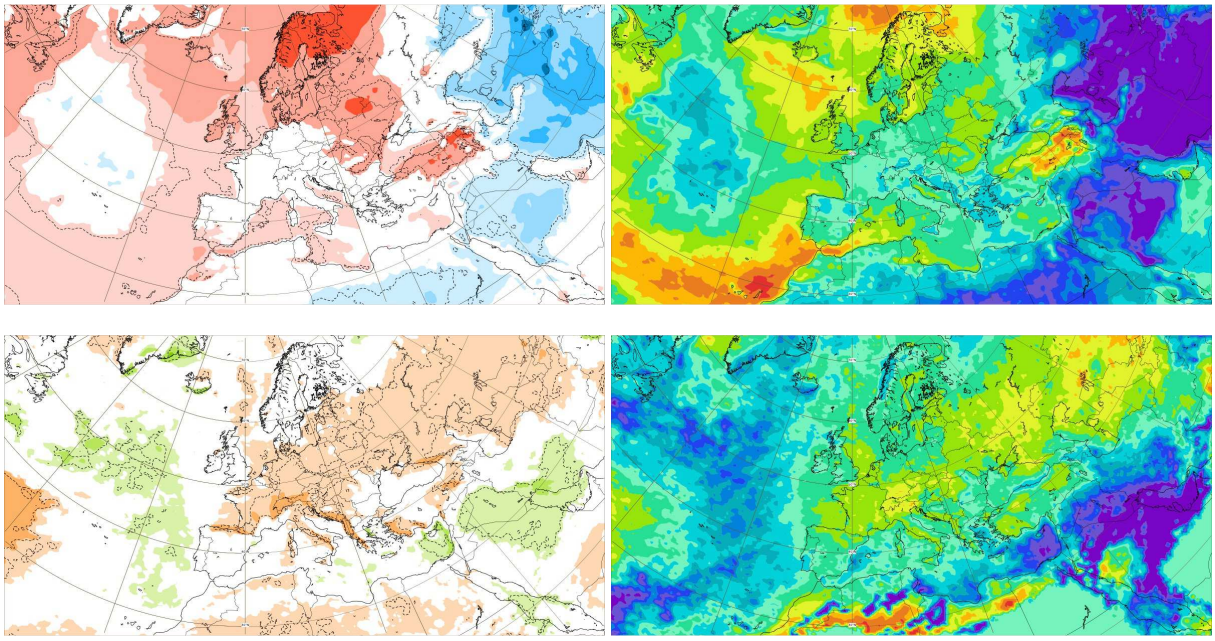


Figure 4. Outlook for the temperature anomalies and probability for the upper tercile (upper row), along with the precipitation surplus/deficit and probability for the upper tercile (lower row) for the 23.1–29.1.2023 period

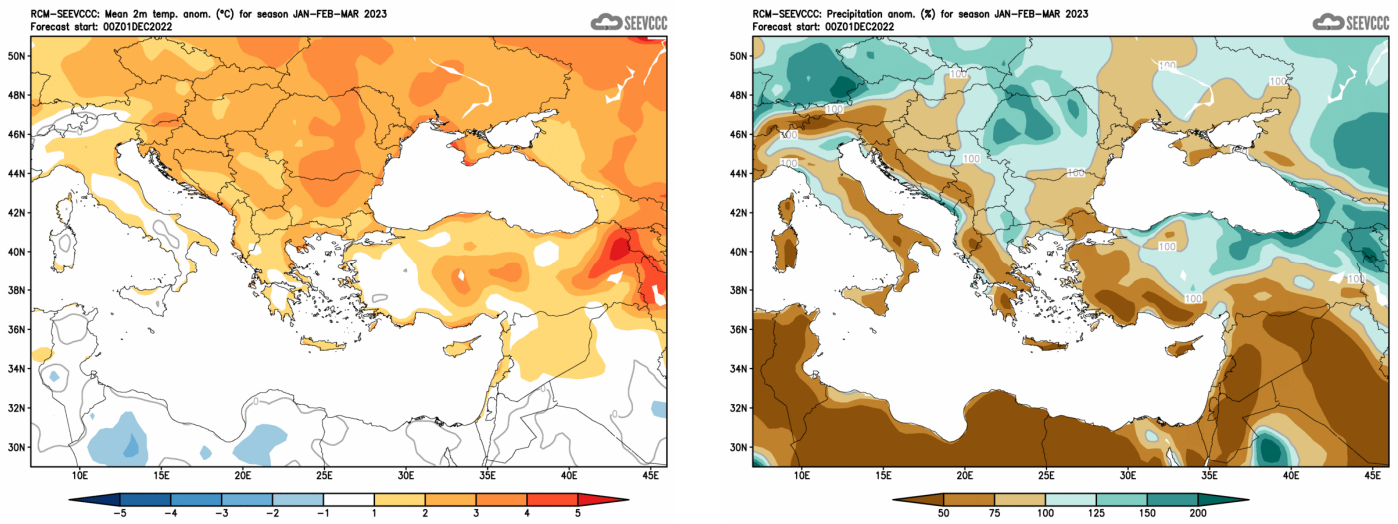


Figure 6. Mean seasonal temperature and precipitation anomaly for the season JFM (seasonal outlook from RCM – SEEVCCC)

Sources

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