

## Climate Watch (Serial No.: 20211202–51)

Initial/Updated/Final

Topic: **temperature** and **precipitation**

Organization issuing the statement: SEEVCCC

Issued/ Amended / 20-12-2021 16:00 P.M.  
Cancelled

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Valid from – to: 20-12-2021 – 28-2-2022 Next amendment: 27-12-2021

Region of concern: **Ukraine, Balkans, Turkey, Georgia, Armenia, Lebanon and Israel**

**„Within the first week (20 to 26 December 2021), ECMWF monthly forecast predicts below normal mean weekly air temperature for some parts of the central and eastern Balkans, Turkey and Ukraine, with anomaly up to -3°C, in Ukraine up to -6°C. Probability for exceeding lower tercile is around 70%, in Ukraine and Turkey up to 90%. Precipitation surplus is expected for Adriatic Sea coast, around 70% probability, as well as Georgia, Armenia, eastern Turkey and eastern Mediterranean coast, with up to 90% probability for exceeding upper tercile. “**

### Monitoring

During the period from 12 to 18 December 2021, precipitation sums were up to 50 mm in the central Balkans, Carpathian Mountains, Cyprus, western Turkey and along the eastern Mediterranean coast, with up to 100 mm in southern Turkey and up to 300 mm in western Bulgaria. In rest of the region, weekly precipitation totals were below 25 mm.

## **Outlook**

Within the first week (20 to 26 December 2021), ECMWF monthly forecast predicts below normal mean weekly air temperature for some parts of the central and eastern Balkans, Turkey and Ukraine, with anomaly up to  $-3^{\circ}\text{C}$ , in Ukraine up to  $-6^{\circ}\text{C}$ . Probability for exceeding lower tercile is around 70%, in Ukraine and Turkey up to 90%. Precipitation surplus is expected for Adriatic Sea coast, around 70% probability, as well as Georgia, Armenia, eastern Turkey and eastern Mediterranean coast, with up to 90% probability for exceeding upper tercile.

During the second week (27 December 2021 to 2 January 2022), below average air temperature is expected in the northwestern Balkans and northern Ukraine, with anomaly up to  $-3^{\circ}\text{C}$  and up to 70% probability for exceeding lower tercile. Precipitation surplus is expected for most of the Balkans, with up to 70% probability for exceeding upper tercile.

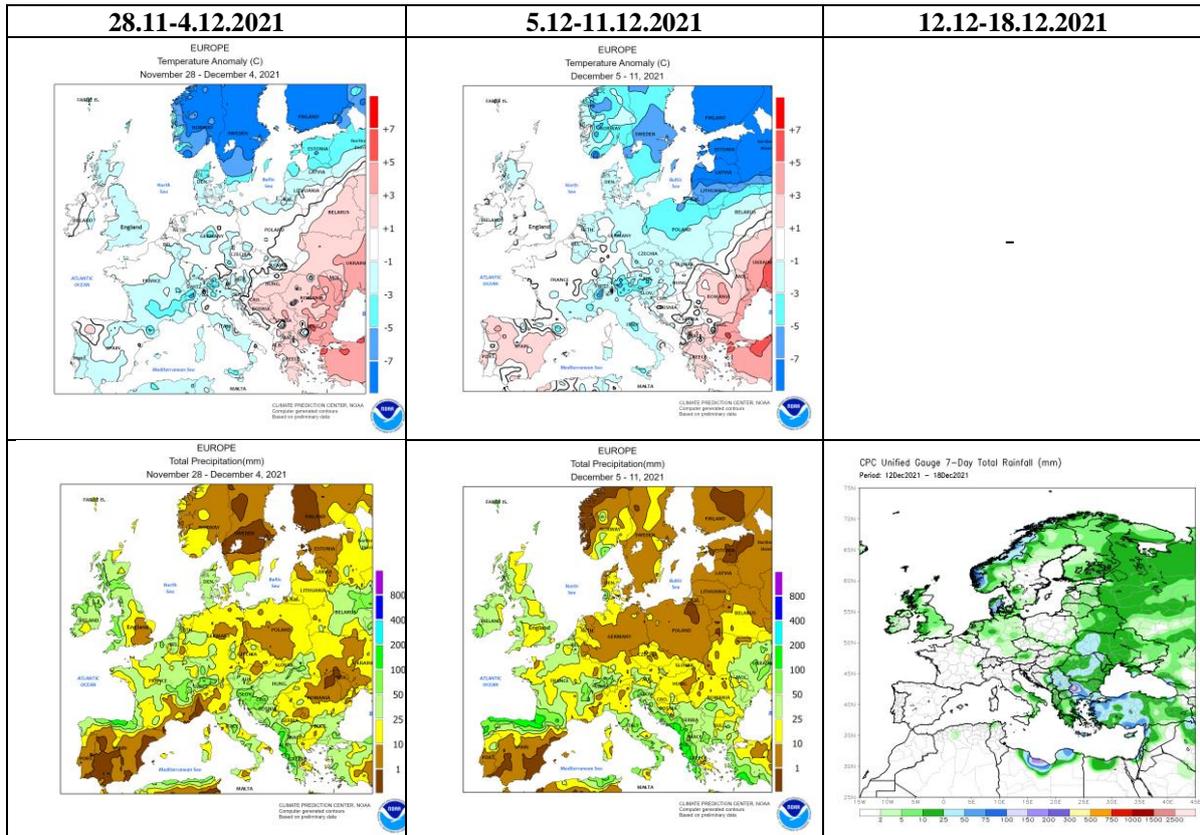
During the following three months (December, January and February) seasonal forecast predicts above normal seasonal air temperature for the northern and western parts of Balkans. Precipitation surplus is expected in the Carpathian Mountains, as well as along the coasts of Adriatic and southern Black Sea. Precipitation deficit is predicted for the western and southern Balkans, Cyprus and southern and western Turkey.

## **Update**

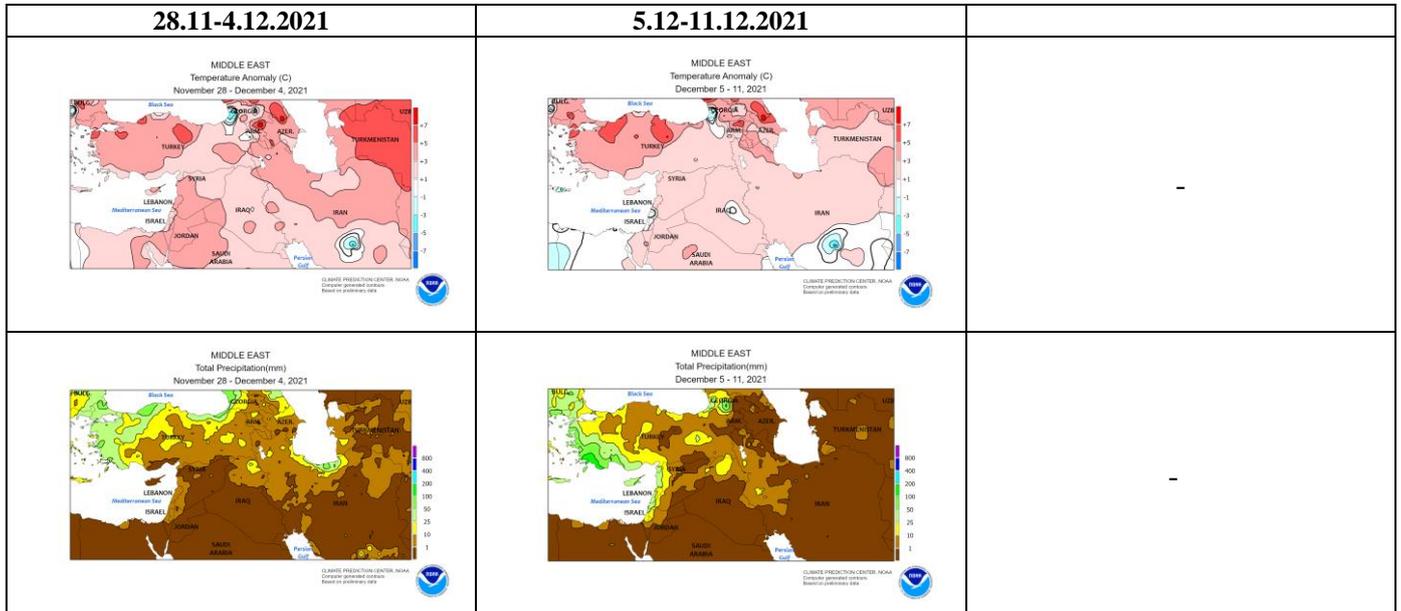
An updated statement will be issued on 27-12-2021

For further information please contact [cws-seevccc@hidmet.gov.rs](mailto:cws-seevccc@hidmet.gov.rs)

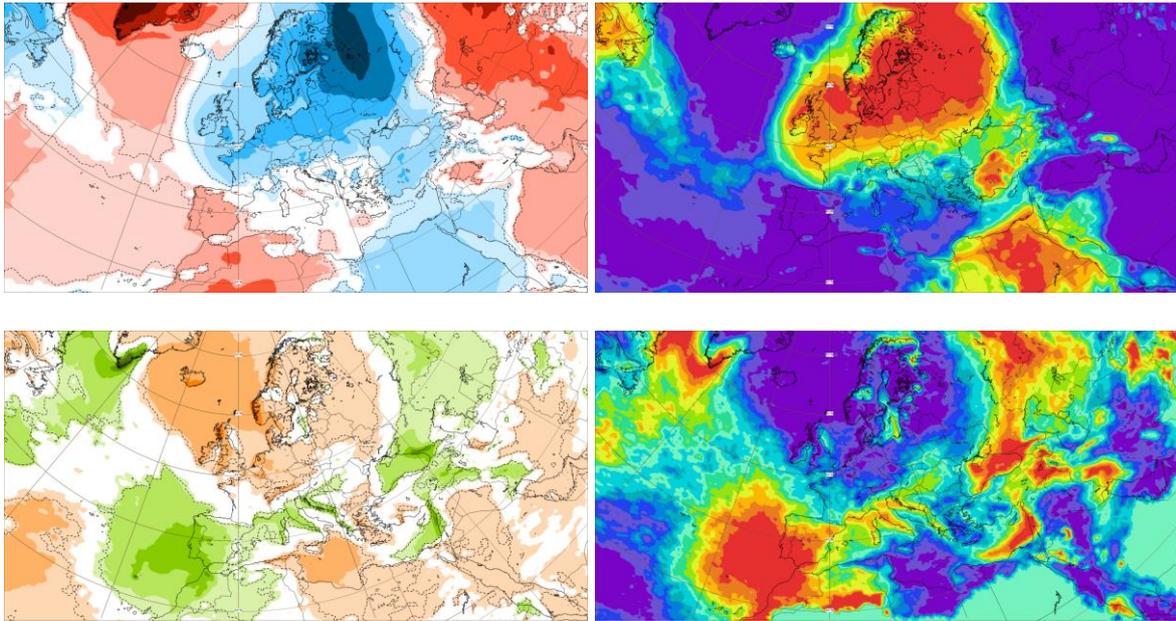
**ANNEX**



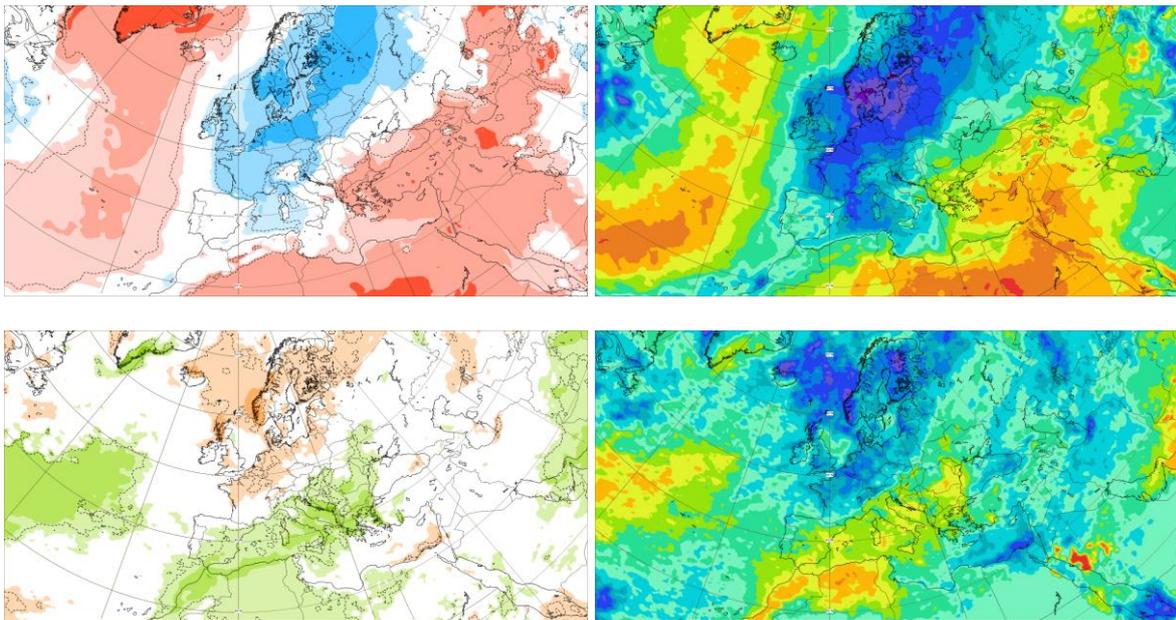
**Figure 1.** Temperature anomaly and total precipitation for recent weeks (source: Climate Prediction Center, USA)



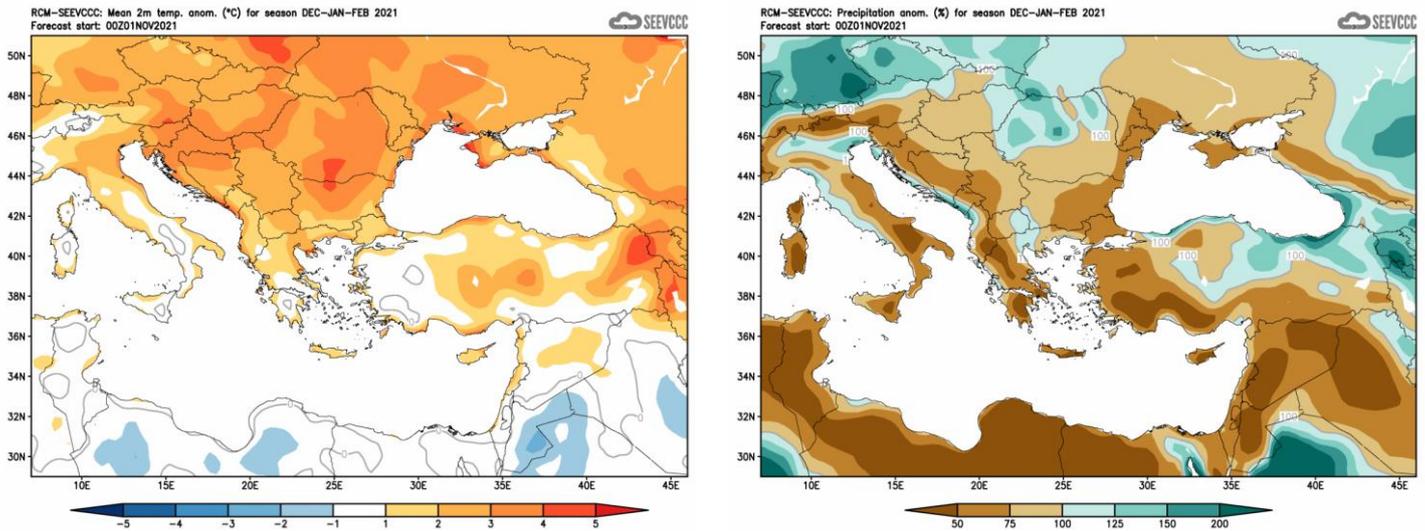
**Figure 2.** Temperature anomaly and total precipitation for recent weeks for Middle East (source: Climate Prediction Center, USA)



**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 upper tercile (lower row) for the 20–26.12.2021 period



**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 27.12.2021–2.1.2022 period



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

### Sources

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