

Climate Watch (Serial No.: 20211227–52)

Initial/Updated/Final

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

Organization issuing the statement: SEEVCCC

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Cancelled

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Valid from – to: 27-12-2021 – 31-3-2022 Next amendment: 3-1-2021

Region of concern: **SEE region**

„ Within the first week (20 to 26 December 2021), ECMWF monthly forecast predicts above normal mean weekly temperature in northern Ukraine and some location in Turkey, with anomaly up to -3°C and up to 80% probability for exceeding lower tercile. Above normal temperature is expected in rest of the region, with anomaly up to +6°C and with 90% probability for exceeding upper tercile. Precipitation surplus is expected for Adriatic Sea coast, some parts on the south Balkans, central and eastern Balkans, as well as Moldova and Ukraine, with around 90% probability for exceeding upper tercile. Precipitation deficit is predicted for eastern Turkey and South Caucasus, with up to 70% for exceeding lower tercile. “

Monitoring

During the period from 19 to 26 December 2021, precipitation sums were up to 100 mm in parts of the northwestern Balkans and South Caucasus, southern and northern Turkey, reaching up to 150 mm in some locations in the southern Balkans. In rest of the region, weekly precipitation totals were below 25 mm.

Outlook

Within the first week (27 December 2021 to 3 January 2022), ECMWF monthly forecast predicts above normal mean weekly temperature for northern Ukraine and some locations in Turkey, with anomaly up to -3°C and up to 80% probability for exceeding lower tercile. Above normal temperature is expected in rest of the region, with anomaly up to $+6^{\circ}\text{C}$ and with 90% probability for exceeding upper tercile. Precipitation surplus is expected for Adriatic Sea coast, some parts on the southern Balkans, central and eastern Balkans, as well as Moldova and Ukraine, with around 90% probability for exceeding upper tercile. Precipitation deficit is predicted for eastern Turkey and South Caucasus, with up to 70% probability for exceeding lower tercile.

During the second week (4 to 11 January 2022), below average air temperature is expected in the northwestern Balkans and northern Ukraine, with anomaly up to -3°C and up to 70% probability for exceeding lower tercile. Above normal temperature is predicted in rest of the region, with anomaly up to $+3^{\circ}\text{C}$ and with 70% probability for exceeding upper tercile. Precipitation deficit is expected along the coasts of Adriatic Sea, south Balkans, as well as western Turkey and the Balkans, with up to 70% probability for exceeding lower tercile. Precipitation surplus is expected for Carpathian Mountains, Ukraine and eastern Turkey with up to 70% for exceeding upper tercile.

During the following three months (January, February and March) seasonal forecast predicts above normal seasonal air temperature for most of the region. Precipitation surplus is expected in the Carpathian Mountains, Ukraine, most of Turkey, South Caucasus as well as along the coasts of Adriatic and southern Black Sea. Precipitation deficit is predicted for the remainder of the region.

Update

An updated statement will be issued on 3-1-2022

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

ANNEX

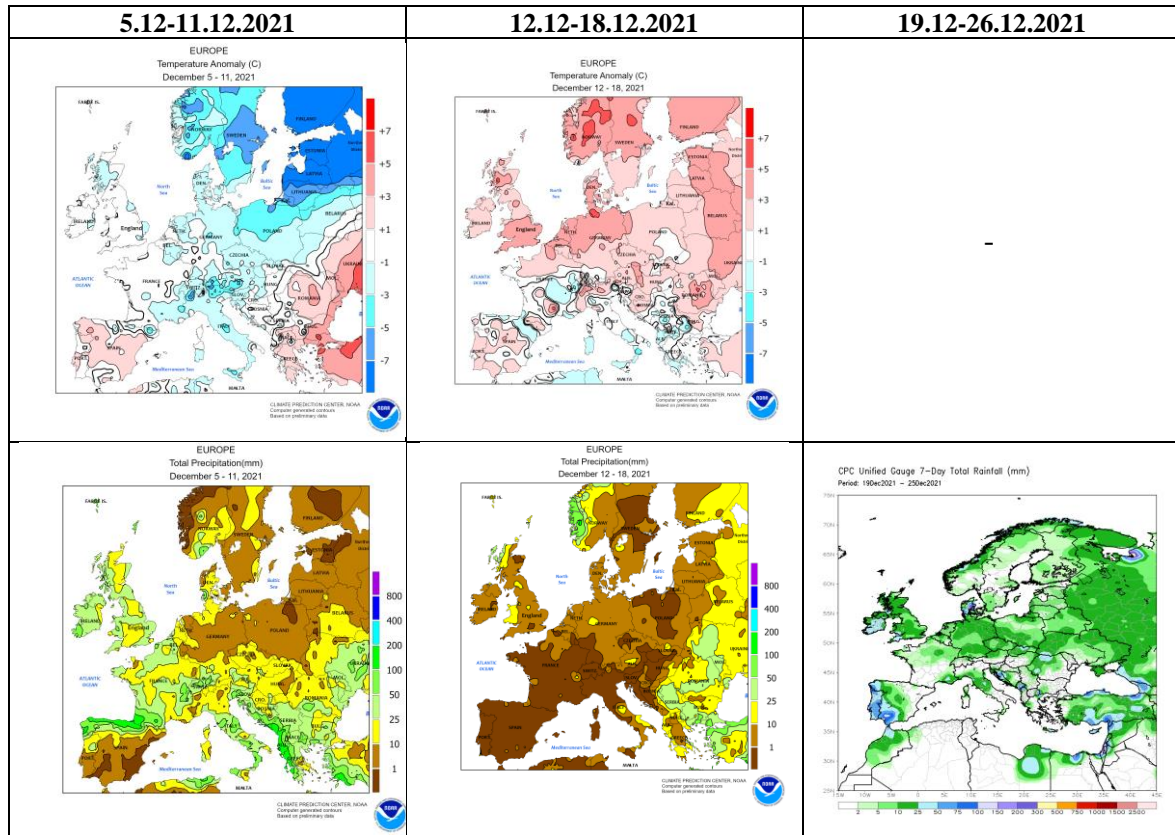


Figure 1. Temperature anomaly and total precipitation for recent weeks (source: Climate Prediction Center, USA)

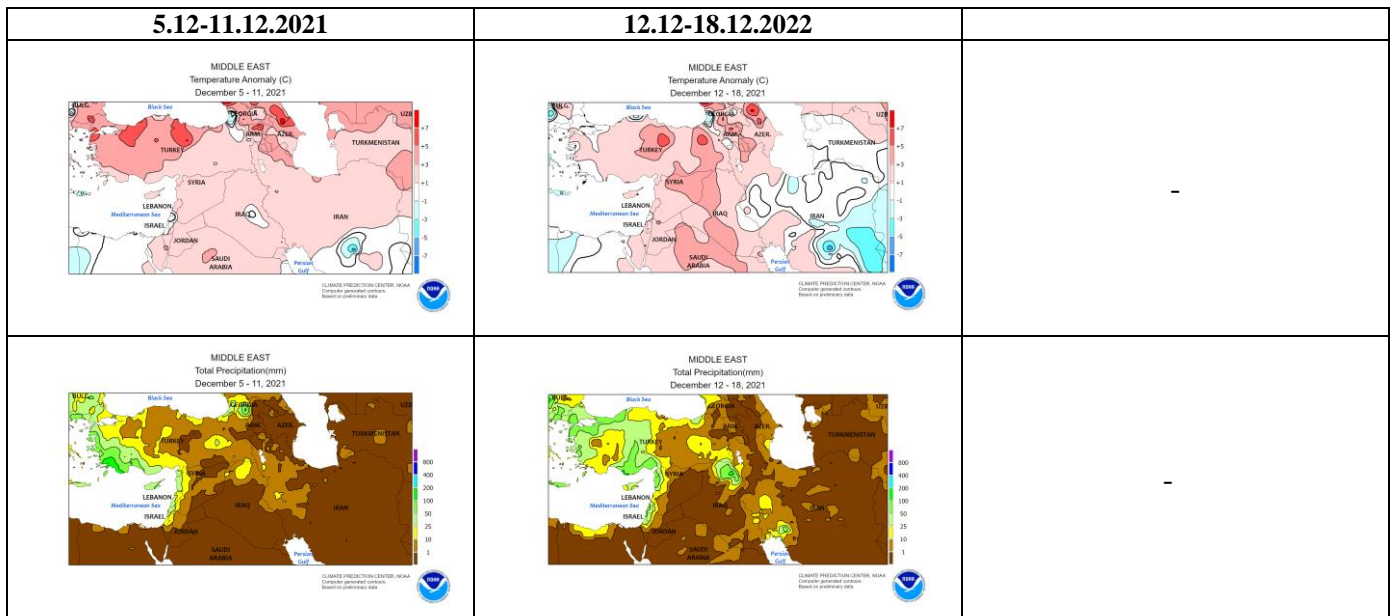


Figure 2. Temperature anomaly and total precipitation for recent weeks for Middle East (source: Climate Prediction Center, USA)

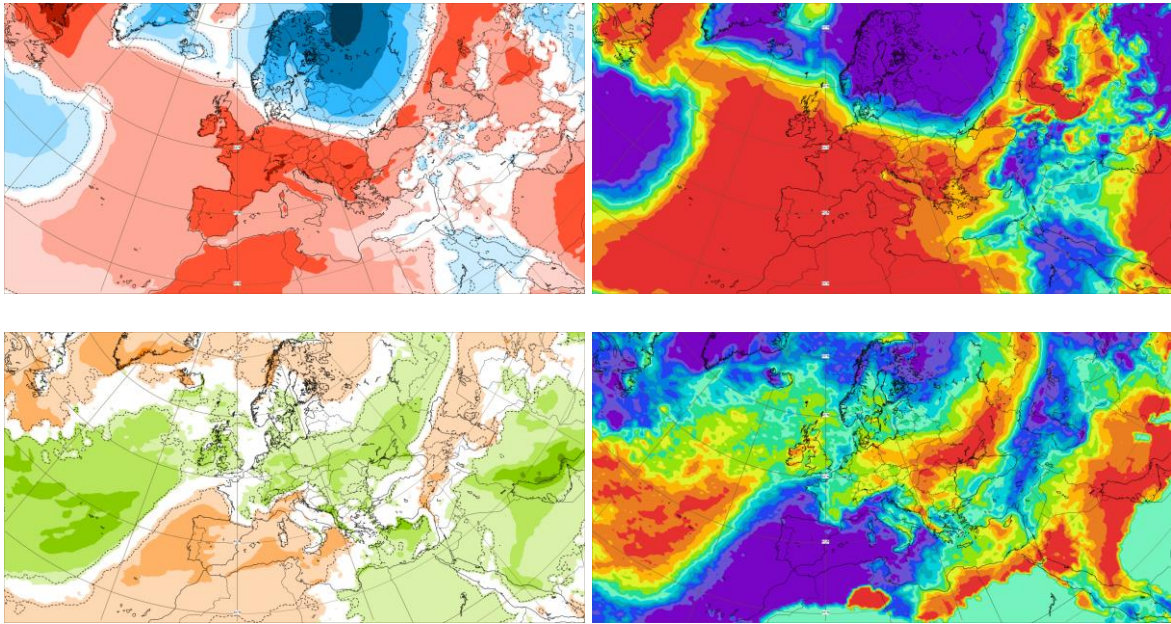


Figure 3. Outlook for the temperature anomalies and probability for the upper tercile (upper row), along with the precipitation surplus/deficit and probability for the upper tercile (lower row) for the 27.12.2021-3.1.2022 period

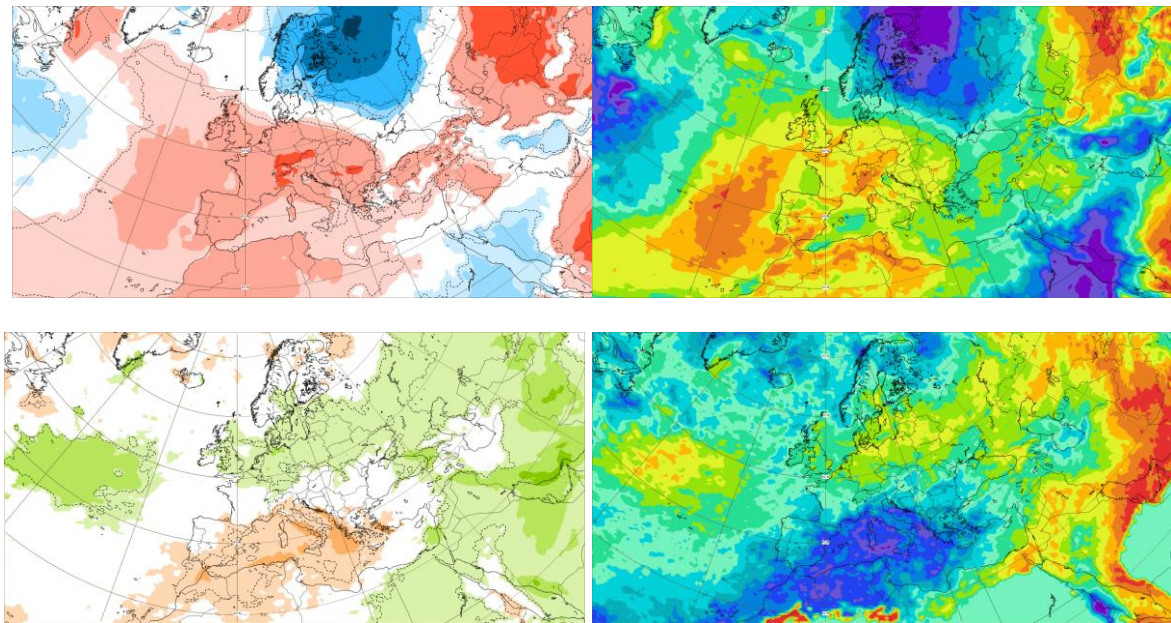


Figure 4. Outlook for the temperature anomalies and probability for the lower tercile (upper row), along with the precipitation surplus/deficit and probability for the lower tercile (lower row) for the 4.1.-1.1.2022 period

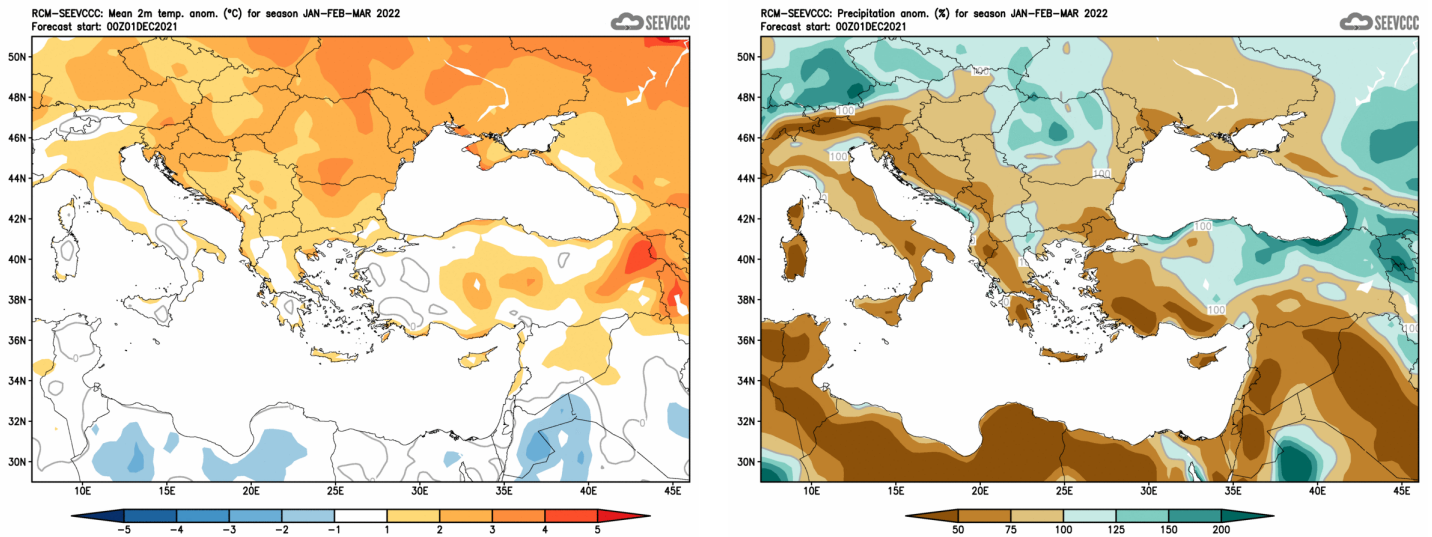


Figure 6. Mean seasonal temperature and precipitation anomaly for the season JFM (seasonal outlook from RCM – SEEVCCC)

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/>)