

Climate Watch (Serial No.: 20210104 – 01)

Initial/Updated/Final

Topic: **precipitation**

Organization issuing
the statement: SEEVCCC

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Cancelled

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Valid from – to: 4-1-2021 – 31-3-2021 Next amendment: 11-1-2021

Region of concern: **the Balkans, Carpathians, Moldova, Ukraine and Turkey**

„Within the period from January 4th to 10th 2021, ECMWF monthly forecast predicts precipitation surplus along the Adriatic and Ionian Sea costs, Carpathians, Moldova, Ukraine and western Turkey, with up to 90% probability for exceeding upper tercile, with possibility of extension until January 17th.”

Monitoring

During the period from December 27th 2020 to January 2nd 2021, precipitation sums were below 25 mm in almost the entire SEE region. In the western Balkans, weekly precipitation totals reached up to 100 mm, while in Montenegro and northern Albania they exceeded 100 mm.

Outlook

Within the first week (January 4th to 10th 2021), ECMWF monthly forecast predicts above average temperature for almost the entire SEE region, with anomaly reaching up to +6°C. Probability for exceeding upper tercile is up to 90%. Precipitation surplus is forecasted along the Adriatic and Ionian Sea coasts, Carpathians, Moldova, Ukraine and western Turkey, with up to 90% probability for exceeding upper tercile.

During the second week (January 11th to 17th 2021), above average temperature is predicted for most of the Balkans, southern Ukraine, with anomaly up to +5°C, as well as Turkey, South Caucasus and Middle East, with anomaly reaching up to +4°C. Probability for exceeding upper tercile is ranging from 60% in the Balkans, Ukraine and most of Turkey, up to 90% in South Caucasus and Middle East. Precipitation surplus is expected in most of the SEE region, with probability for exceeding upper tercile ranging from 60% in the Balkans and most of Turkey, around 70% in Moldova, Ukraine and northeastern Turkey and up to 80% in the Carpathians.

In the period from January 4th to 31st 2021, above average temperature is predicted for the entire SEE region, with north to south gradient of anomaly from +1°C to +4°C and probability from 60% to 90% for exceeding upper tercile. Precipitation surplus is forecasted for most of the Balkans, Carpathians, Moldova, Ukraine and western Turkey, with probability up to 90% 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, while in parts of Turkey and southern Balkans average temperature is forecasted. Precipitation surplus is expected for northern Turkey and Carpathian region. Precipitation deficit is predicted for the southern Balkans and southern Turkey. Average seasonal precipitation sums are expected in rest of the region.

Update

An updated statement will be issued on 11-1-2021

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

ANNEX

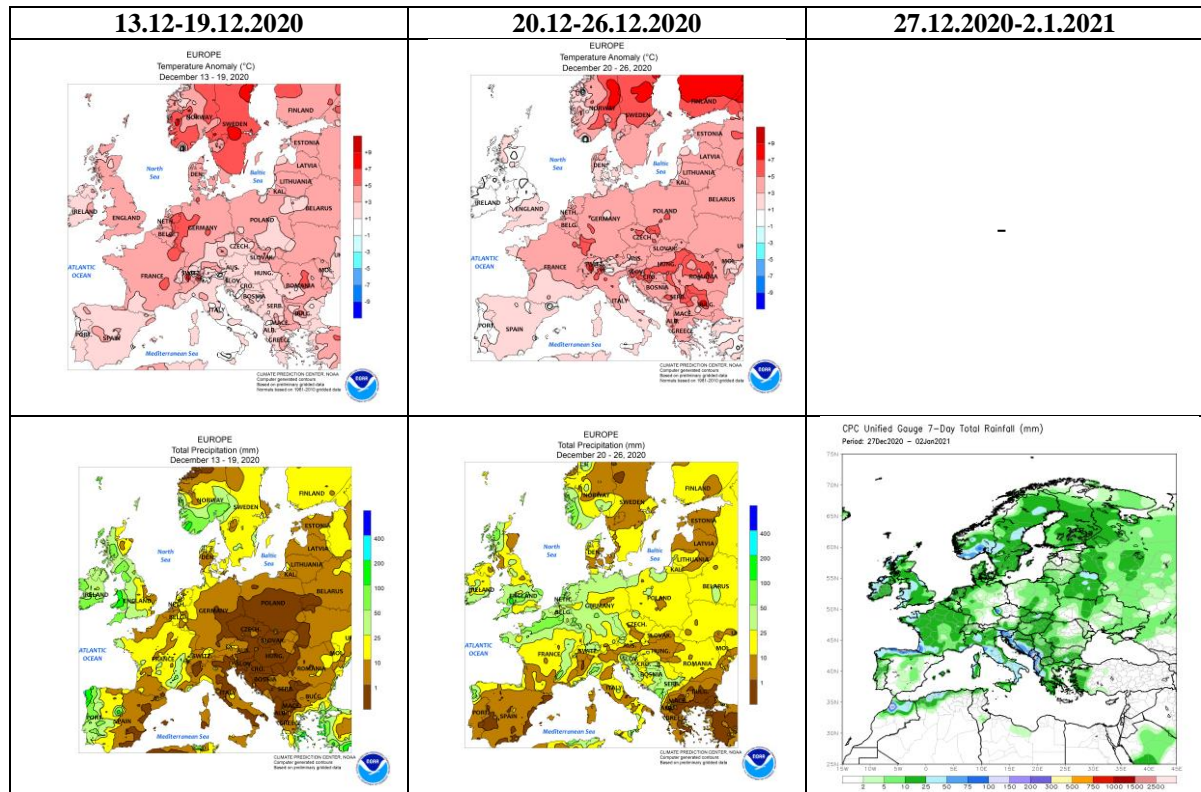


Figure 1. Temperature anomaly and total precipitation for recent weeks (source: Climate Prediction Center, USA)

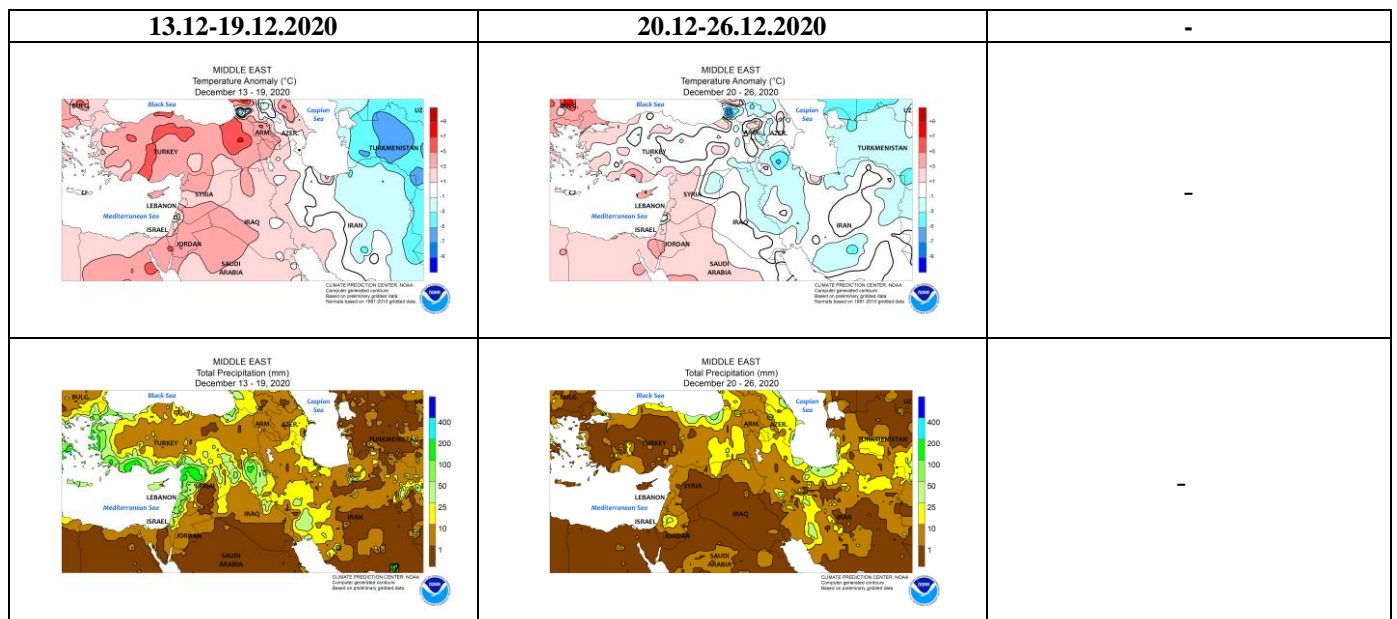


Figure 2. Temperature anomaly and total precipitation for recent weeks for Middle East (source: Climate Prediction Center, USA)

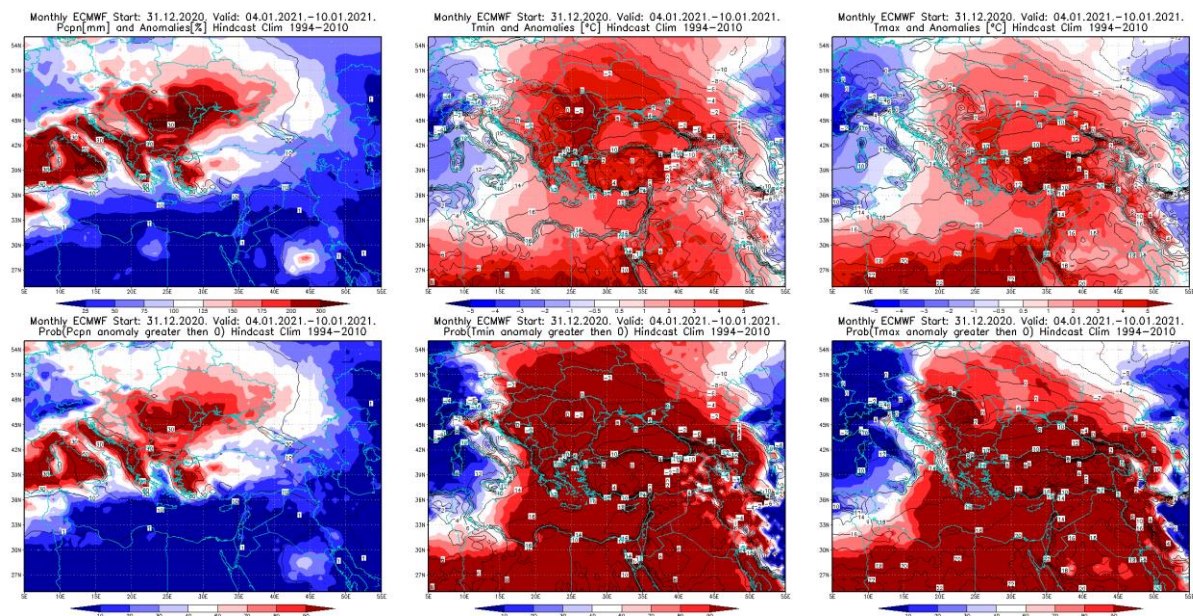


Figure 3. Outlook for the precipitation amount anomaly, minimum and maximum temperature anomalies (upper row), along with the probability of precipitation surplus/deficit and positive minimum and maximum temperature anomalies (lower row) for the 4.1–10.1.2021 period

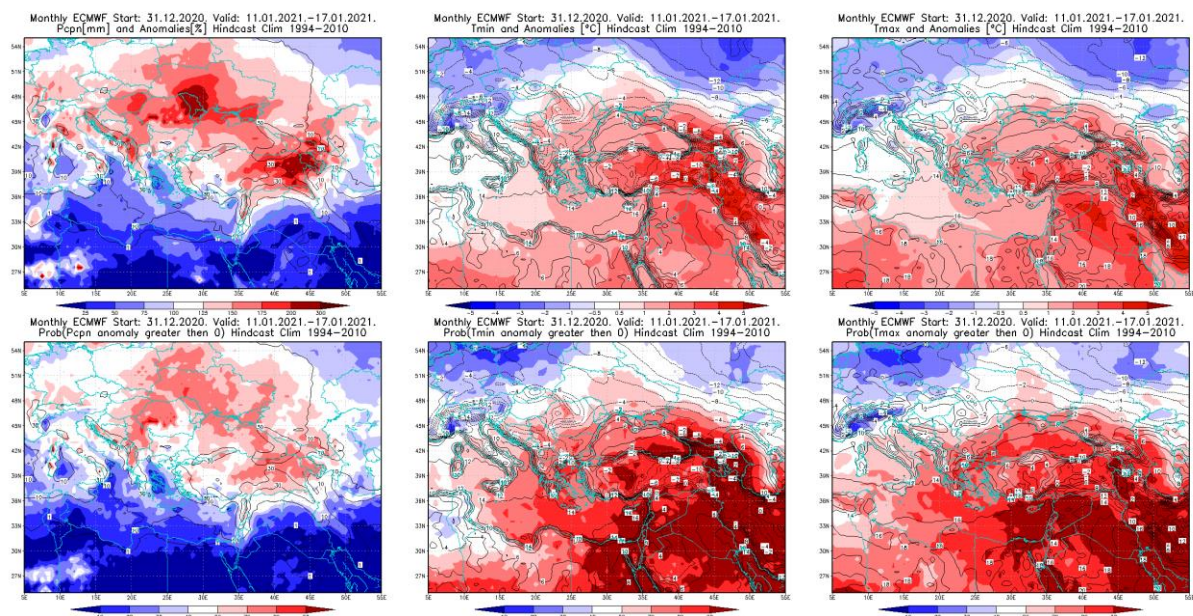


Figure 4. Outlook for the precipitation amount anomaly, minimum and maximum temperature anomalies (upper row), along with the probability of precipitation surplus/deficit and positive minimum and maximum temperature anomalies (lower row) for the 11.1–17.1.2021 period

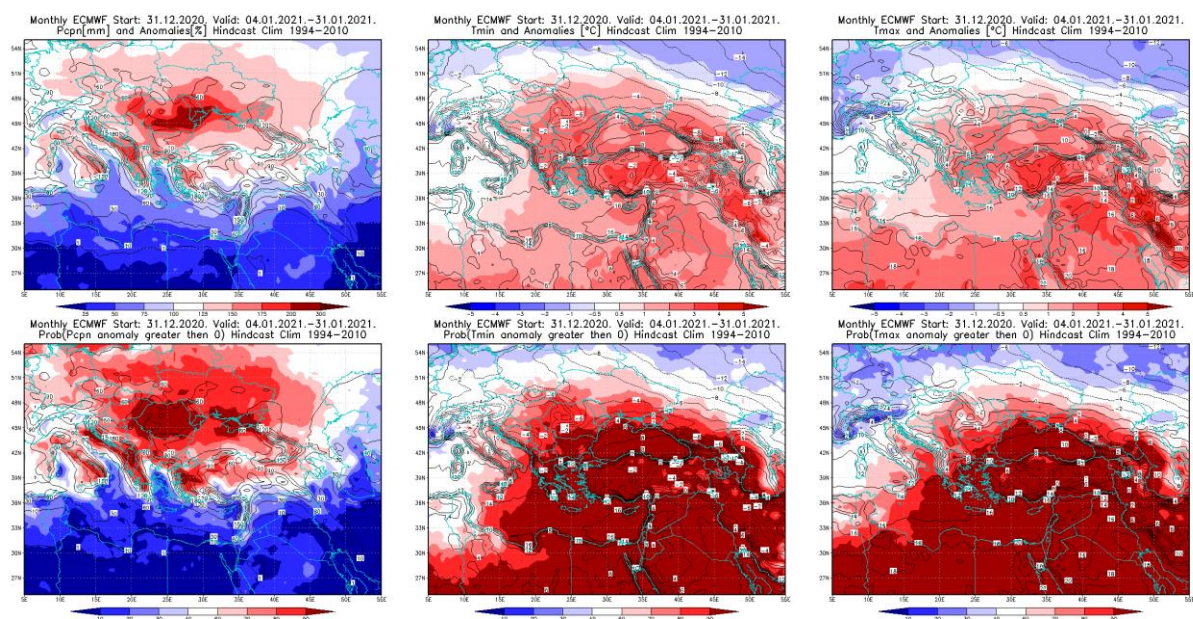


Figure 5. Outlook for the precipitation amount anomaly, minimum and maximum temperature anomalies (upper row), along with the probability of precipitation surplus/deficit and positive minimum and maximum temperature anomalies (lower row) for the 4.1–31.1.2021 period

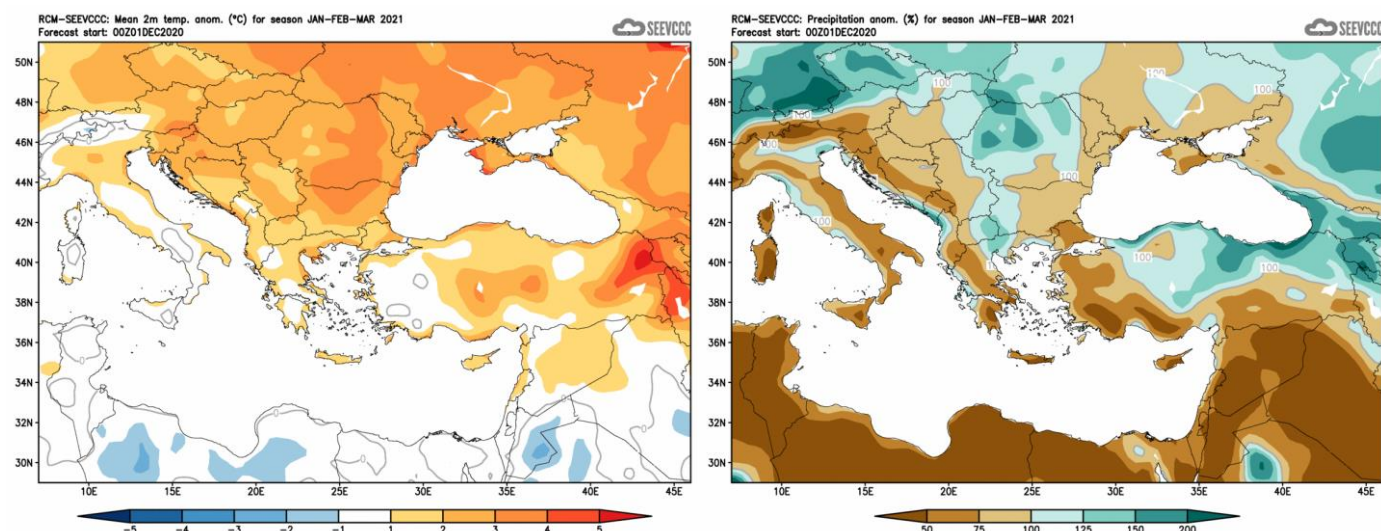


Figure 6. Mean seasonal temperature and precipitation anomaly for the season JFM (seasonal outlook from RCM – SEEVCCC)

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/>)