

Climate Watch (Serial No.: 20210329 – 13)

Initial/Updated/Final

Topic: **temperature and precipitation**

Organization issuing the statement: SEEVCCC

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Cancelled

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

Valid from – to: 29-3-2021 – 30-6-2021 Next amendment: 5-4-2021

Region of concern: **SEE**

„Within the first week (29 March - 4 April 2021), ECMWF monthly forecast predicts below normal mean weekly air temperature for Turkey, South Caucasus and Middle East with anomaly up to -4°C and more than 90% probability for exceeding lower tercile. Precipitation surplus is predicted for most of Ukraine, with up to 60% probability for exceeding upper tercile. Precipitation deficit is predicted for rest of the region with around 80% probability for exceeding lower tercile in Turkey and parts of the South Balkans.”

Monitoring

During the previous week wet conditions with precipitation of more than 50 mm prevailed in most of the Balkans. In northern and central Turkey, as well as south Georgia weekly precipitation totals reached up to 100 mm, while in some parts of western Greece they reached up to 150 mm.

Outlook

Within the first week (29 March - 4 April 2021), ECMWF monthly forecast predicts below normal mean weekly air temperature for Turkey, South Caucasus and Middle East with anomaly up to -4°C and more than 90% probability for exceeding lower tercile. Above average temperature is predicted for most of the Balkans, Moldova and Ukraine, with anomaly reaching up to $+3^{\circ}\text{C}$ and up to 80% probability for exceeding upper tercile. Precipitation surplus is predicted for most of Ukraine, with up to 60% probability for exceeding upper tercile. Precipitation deficit is predicted for rest of the region with around 80% probability for exceeding lower tercile in Turkey and parts of the South Balkans.

During the second week (5 - 11 April 2021), above average temperature is predicted for most of the SEE region, with anomaly up to $+3^{\circ}\text{C}$. Probability for exceeding upper tercile is in a range from 60% in most of Balkans up to 80% in southern Balkans and western Turkey. Precipitation deficit is predicted for most of the Southern Balkans, Turkey, South Caucasus and Middle East with low probability for exceeding lower tercile. In rest of the region average precipitation sums are expected.

In the period from 29 March to 25 April 2021, above average temperature is predicted for most of the region, with anomaly up to $+2^{\circ}\text{C}$ and up to 60% probability for exceeding upper tercile. Precipitation deficit is predicted for the South Balkans, western and southern Turkey, as well as Middle East with up to 80% probability for exceeding lower tercile. Average precipitation is expected in rest of the region.

During the following three months (April, May and June) seasonal forecast predicts above normal seasonal air temperature for most of the region. Precipitation surplus is expected for Carpathian and South Caucasus region, as well as western Ukraine. Precipitation deficit is predicted for the southern and eastern Balkans, Cyprus, western and southern Turkey. Average seasonal precipitation sums are expected in rest of the region.

Update

An updated statement will be issued on 5-4-2021

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

ANNEX

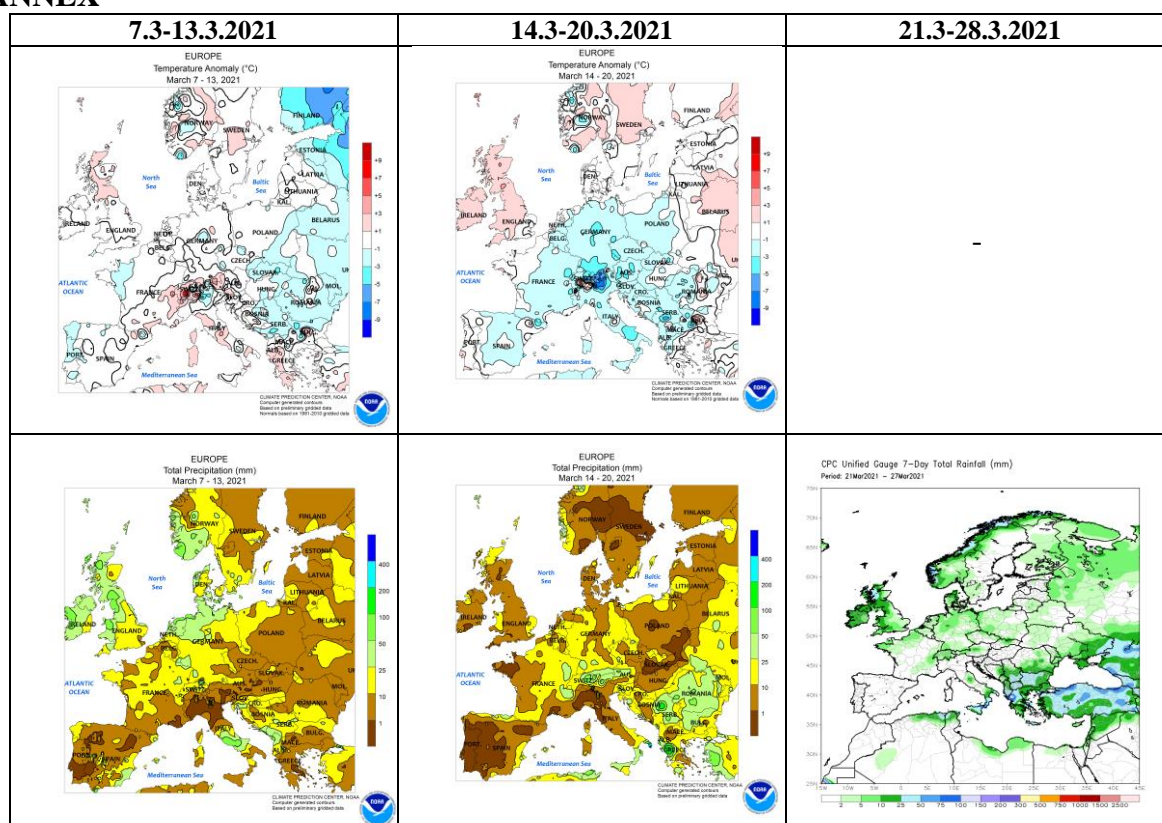


Figure 1. Temperature anomaly and total precipitation for recent weeks (source: Climate Prediction Center, USA)

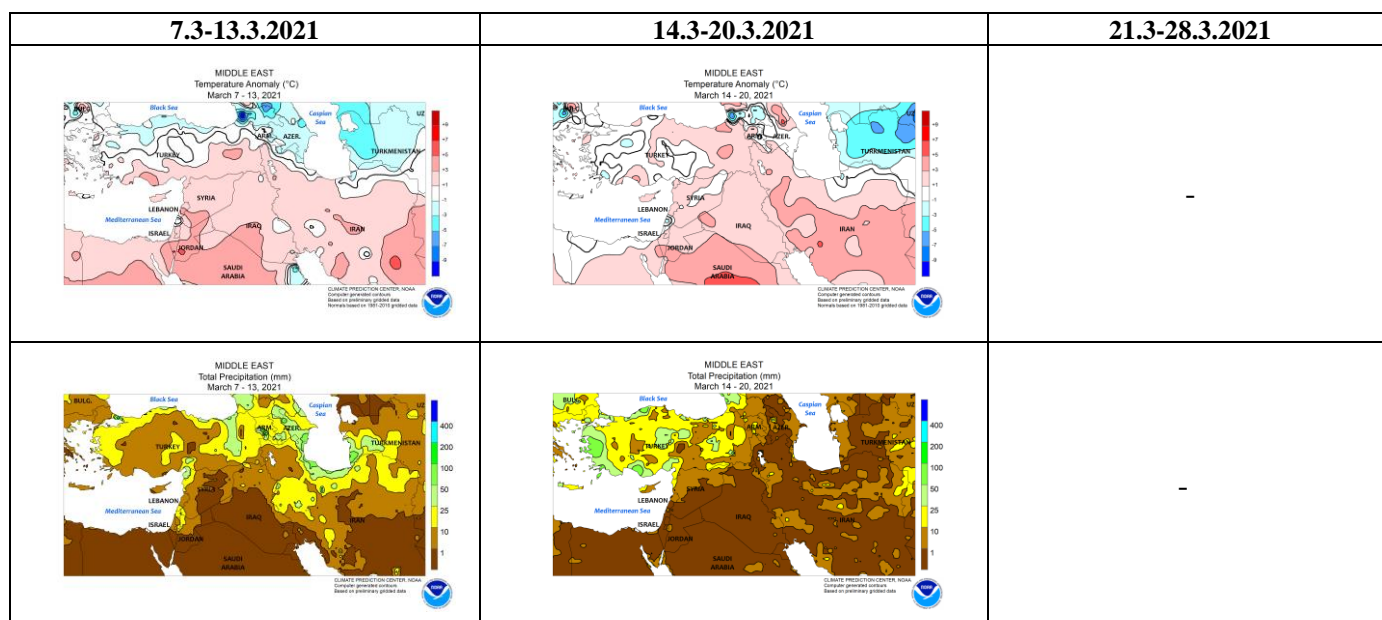


Figure 2. Temperature anomaly and total precipitation for recent weeks for Middle East (source: Climate Prediction Center, USA)

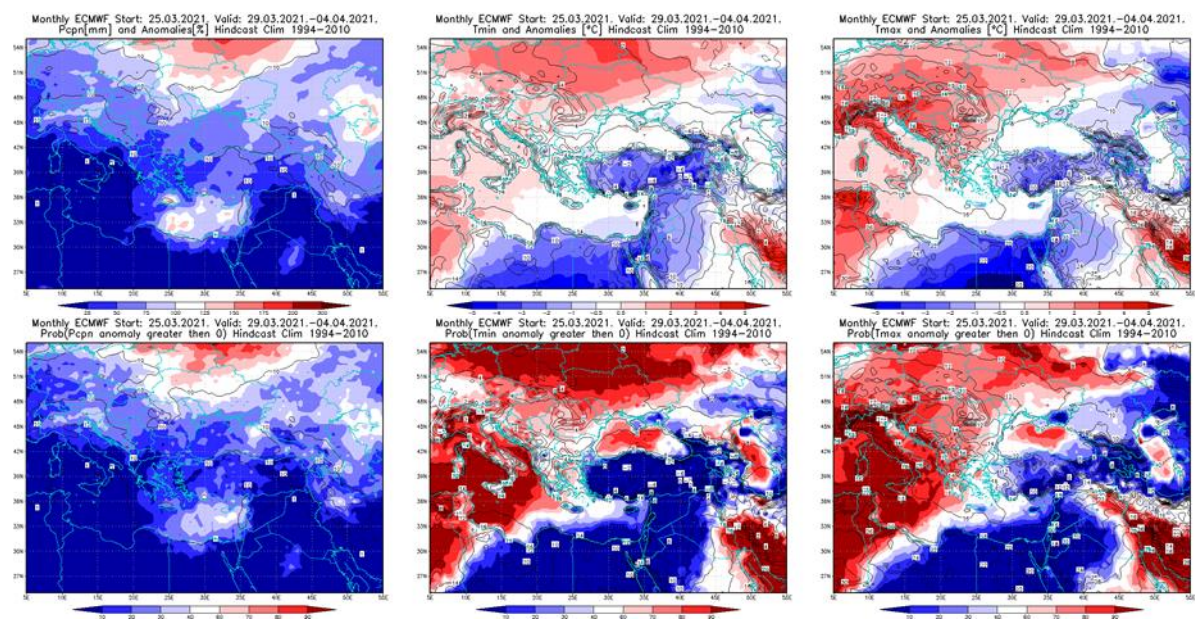


Figure 3. Outlook for the precipitation amount anomaly, minimum and maximum temperature anomalies (upper row), along with the probability of precipitation surplus/deficit and positive minimum and maximum temperature anomalies (lower row) for the 29.3–4.4.2021 period

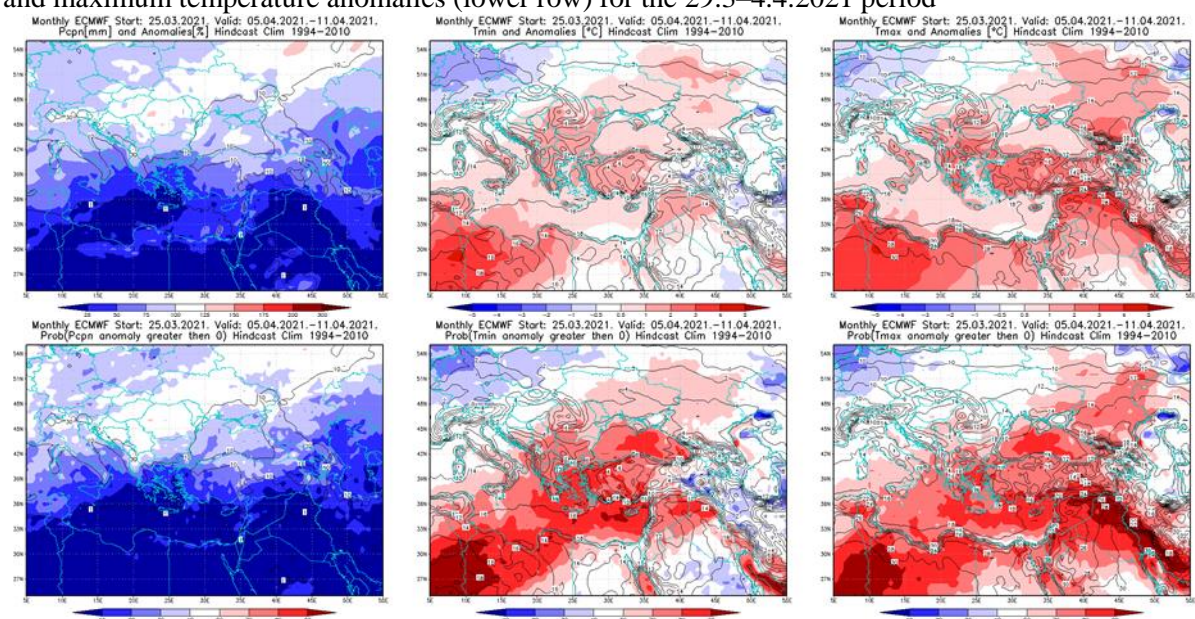


Figure 4. Outlook for the precipitation amount anomaly, minimum and maximum temperature anomalies (upper row), along with the probability of precipitation surplus/deficit and positive minimum and maximum temperature anomalies (lower row) for the 5.4–11.4.2021 period

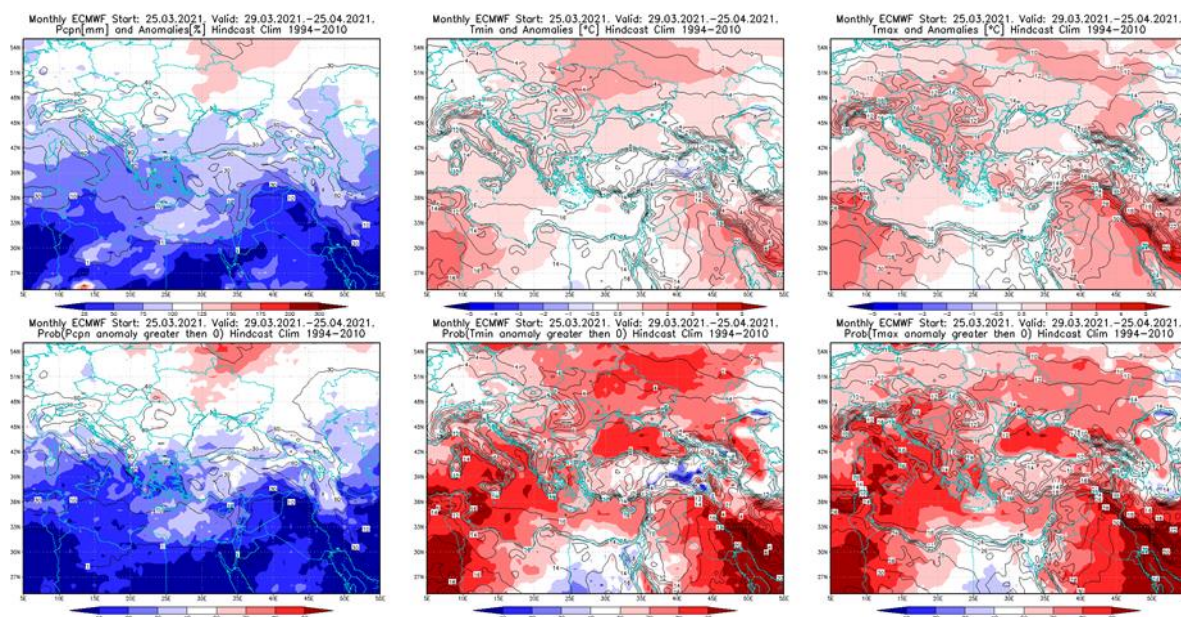


Figure 5. Outlook for the precipitation amount anomaly, minimum and maximum temperature anomalies (upper row), along with the probability of precipitation surplus/deficit and positive minimum and maximum temperature anomalies (lower row) for the 29.3 –25.4.2021 period

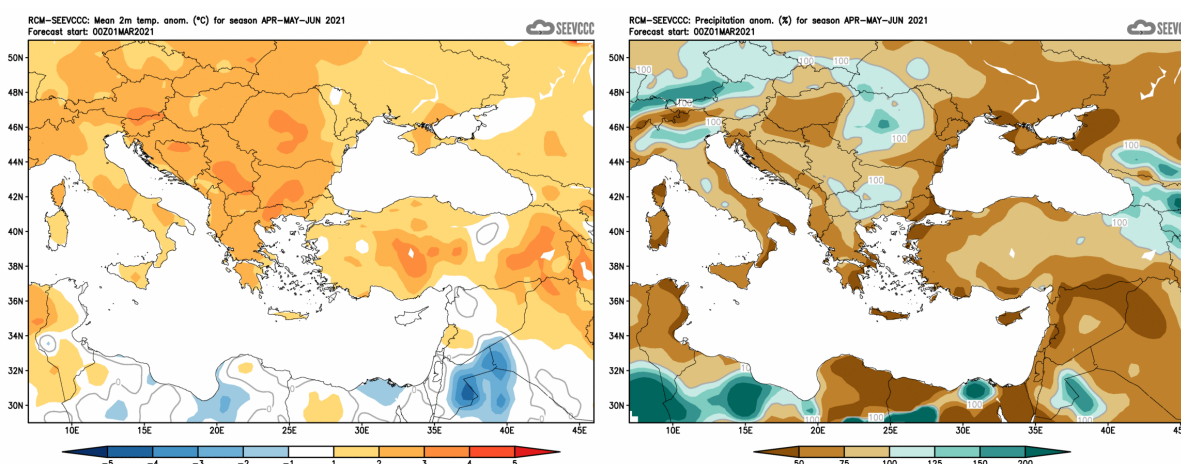


Figure 6. Mean seasonal temperature and precipitation anomaly for the season AMJ (seasonal outlook from RCM – SEEVCCC)

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/>)