

Climate Watch (Serial No.: 20181203 – 00)

Initial/Updated/Final

Topic: **temperature and precipitation**

Organization issuing the statement: SEEVCCC

Issued/ Amended / Cancelled 3-12-2018 12:00 P.M.

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Valid from – to: 3-12-2018 – 28-2-2019 Next amendment: 10-12-2018

Region of concern: **SEE region**

„In the period from December 3rd to 9th 2018, ECMWF monthly forecast predicts above normal mean weekly air temperature, with anomaly in a range from +2°C up to +3°C, in most of Balkans, westernmost Ukraine, northwestern Romania and most of Turkey, while in south Caucasus region temperature anomaly is up to +4°C. Probability for exceeding upper tercile is around 80%, and in south Caucasus up to 90%. Below normal mean weekly air temperature, with anomaly up to -2°C, is forecasted for Moldova, southern Ukraine and eastern Bulgaria, eastern Romania, while in southern Romania temperature anomaly is up to -4°C. Probability for exceeding lower tercile is around 80% in southern Romania. Precipitation surplus is expected in most of the SEE region, with around 80% probability for exceeding upper tercile.”

Monitoring

In the period from November 25th to December 1st 2018, above normal air temperature was registered in the southern Balkans, Cyprus, most of Turkey and south Caucasus, with anomaly reaching up to +3°C, and in eastern and central Turkey with anomaly reaching up to +5°C, at some locations even up to +7°C. Below normal air temperature was recorded in most of the Balkans and most of Romania, with anomaly up to -3°C. In Ukraine, Moldova, eastern Romania and northeastern Bulgaria temperature anomaly reached up to -5°C, while in part of southwestern Ukraine, northern Moldova and northeastern Romania temperature anomaly was up to -7°C. Precipitation totals were up to 50 mm in most of the region. Coastal areas of the southwestern Greece, most of the southwestern Balkans, western and southern Turkey as well as western Cyprus, received up to 100 mm of precipitation.

Outlook

Within the first week (December 3rd to 9th 2018), ECMWF monthly forecast predicts above normal mean weekly air temperature, with anomaly in a range from +2°C up to +3°C, in most of Balkans, westernmost Ukraine, northwestern Romania and most of Turkey, while in south Caucasus region temperature anomaly is up to +4°C. Probability for exceeding upper tercile is around 80%, and in south Caucasus up to 90%. Below normal mean weekly air temperature, with anomaly up to -2°C, is forecasted for Moldova, southern Ukraine and eastern Bulgaria, eastern Romania, while in southern Romania temperature anomaly is up to -4°C. Probability for exceeding lower tercile is around 80% in southern Romania. Precipitation surplus is expected in most of the SEE region, with around 80% probability for exceeding upper tercile. Precipitation deficit is expected in the southern Balkans with low probability.

During the second week (December 10th to 16th 2018), below normal mean weekly air temperature is predicted for most of Ukraine and Moldova, with anomaly around -2°C. Probability for exceeding lower tercile is around 60%. Above normal mean weekly air temperature, with anomaly in a range from +2°C up to +3°C, is forecasted for the south Caucasus and most of Turkey. Probability for exceeding upper tercile is around 80% in south Caucasus. Precipitation surplus is expected in central and eastern Turkey and most of south Caucasus, with around 60% probability for exceeding upper tercile.

In the period from December 3rd to 30th 2018, above normal mean monthly air temperature is predicted for most of the Balkans and south Caucasus, with anomaly up to +2°C, and probability for exceeding upper tercile is up to 80%. Precipitation surplus is expected in southeastern Turkey, Azerbaijan and most of Armenia, with around 60% probability for exceeding upper tercile.

During the following three months (December, January and February) seasonal forecast predicts above normal seasonal air temperature for most of the Balkans, Romania, Moldova, Ukraine, south Caucasus and some locations in central and eastern Turkey. Precipitation surplus is predicted for the Carpathian region, most of South Caucasus, southwestern Ukraine, northernmost and eastern Turkey and along the coast of Adriatic Sea. Precipitation deficit is expected in most of the western and southern Balkans, western and southern Turkey, Cyprus and Jordan.

Update

An updated statement will be issued on 10-12-2018

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

ANNEX

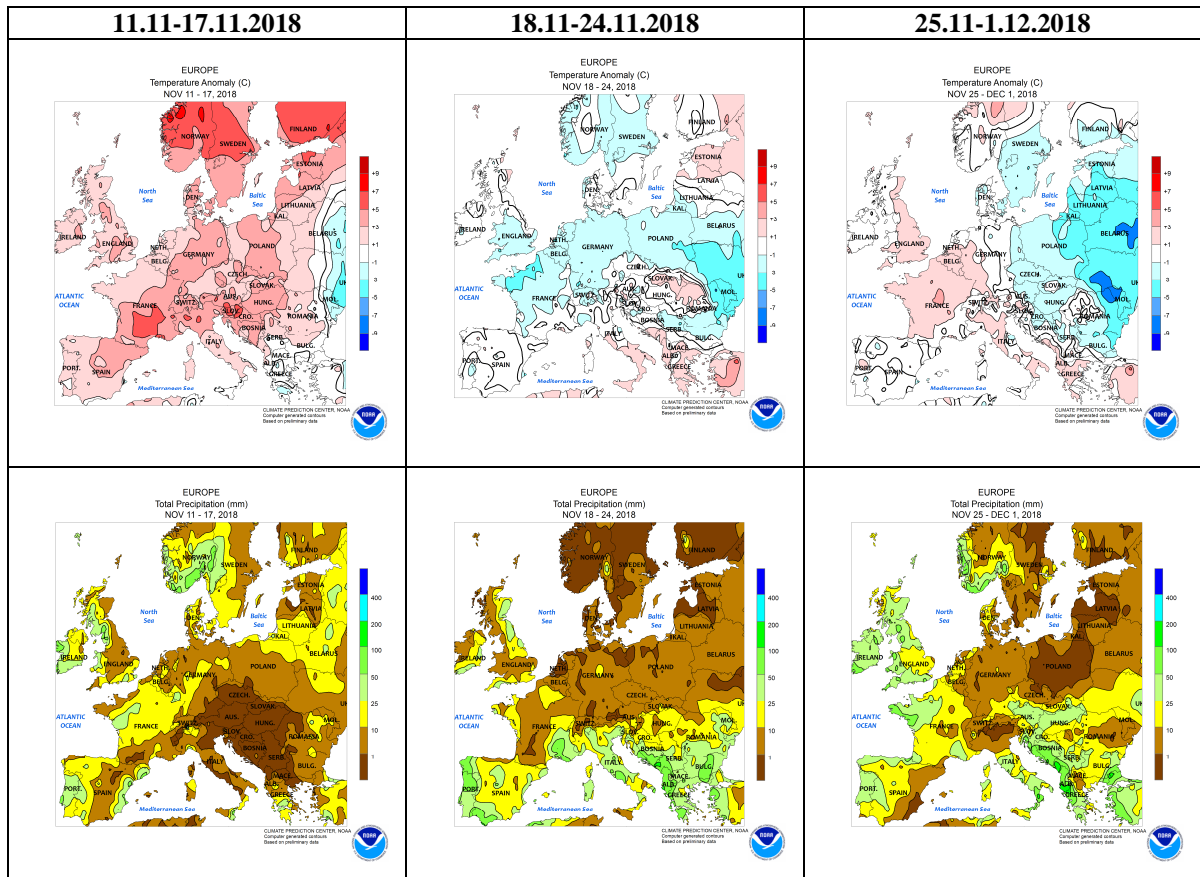


Figure 1. Temperature anomaly and total precipitation for recent weeks (source: Climate Prediction Center, USA)

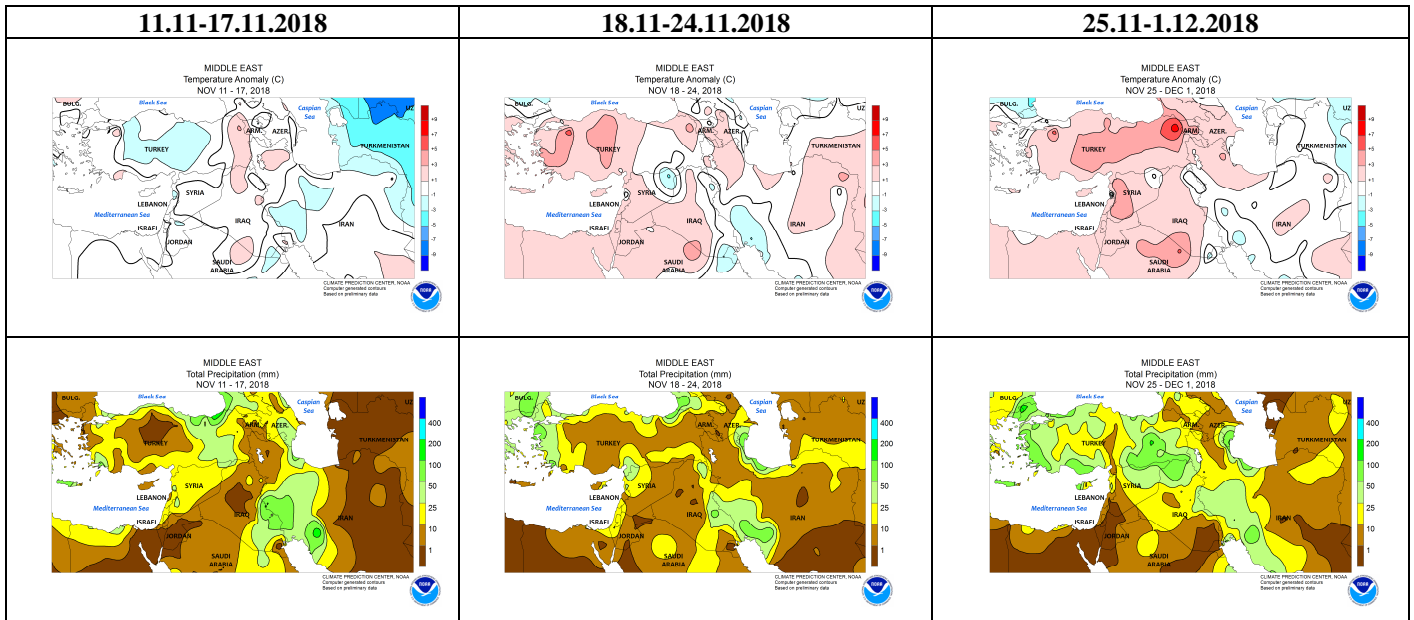


Figure 2. Temperature anomaly and total precipitation for recent weeks for Middle East (source: Climate Prediction Center, USA)

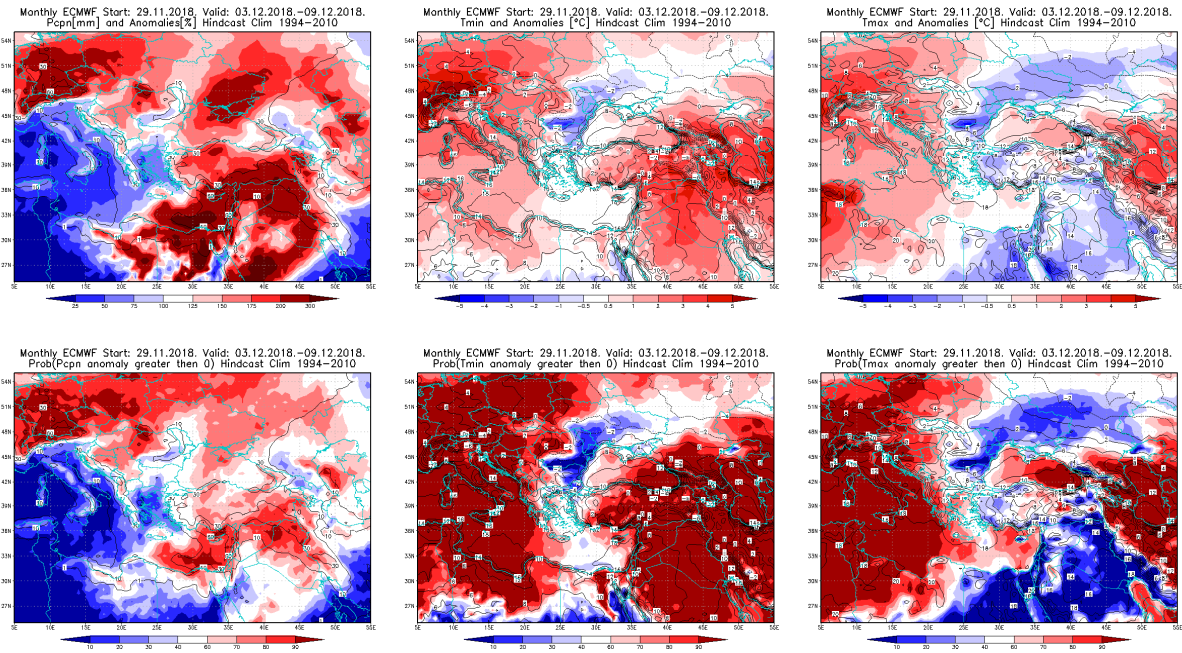


Figure 3. Outlook for the precipitation amount anomaly, minimum and maximum temperature anomalies (upper row), along with the probability of precipitation surplus/deficit and positive minimum and maximum temperature anomalies (lower row) for the 3.12 - 9.12.2018 period

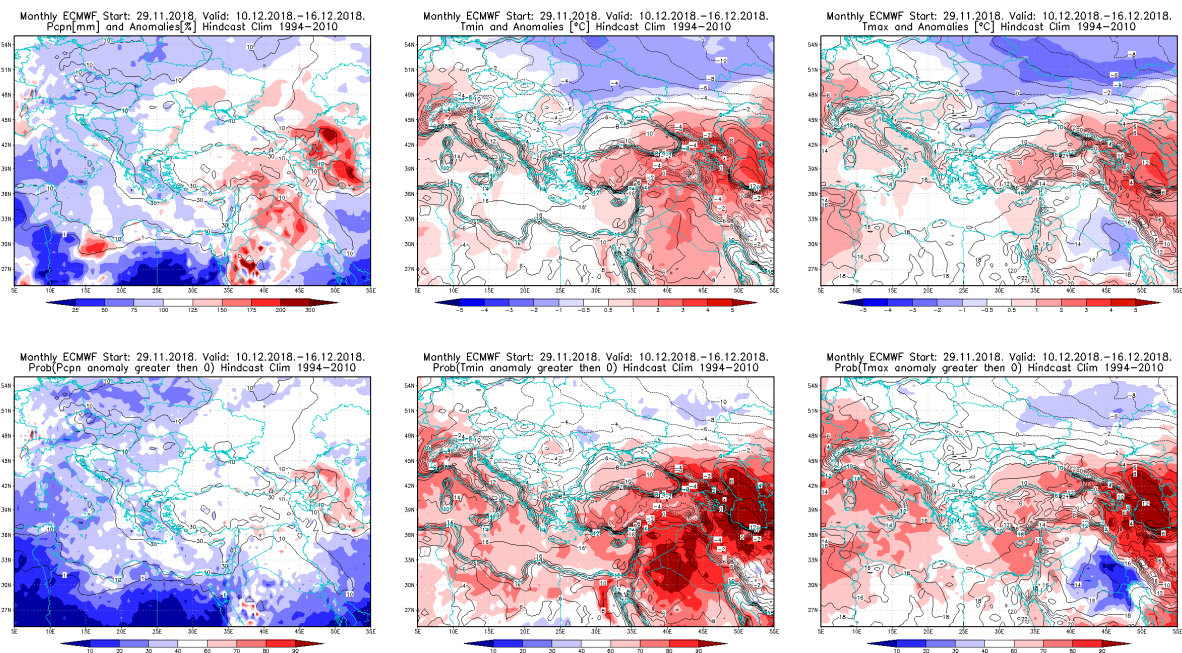


Figure 4. Outlook for the precipitation amount anomaly, minimum and maximum temperature anomalies (upper row), along with the probability of precipitation surplus/deficit and positive minimum and maximum temperature anomalies (lower row) for the 10.12 - 16.12.2018 period

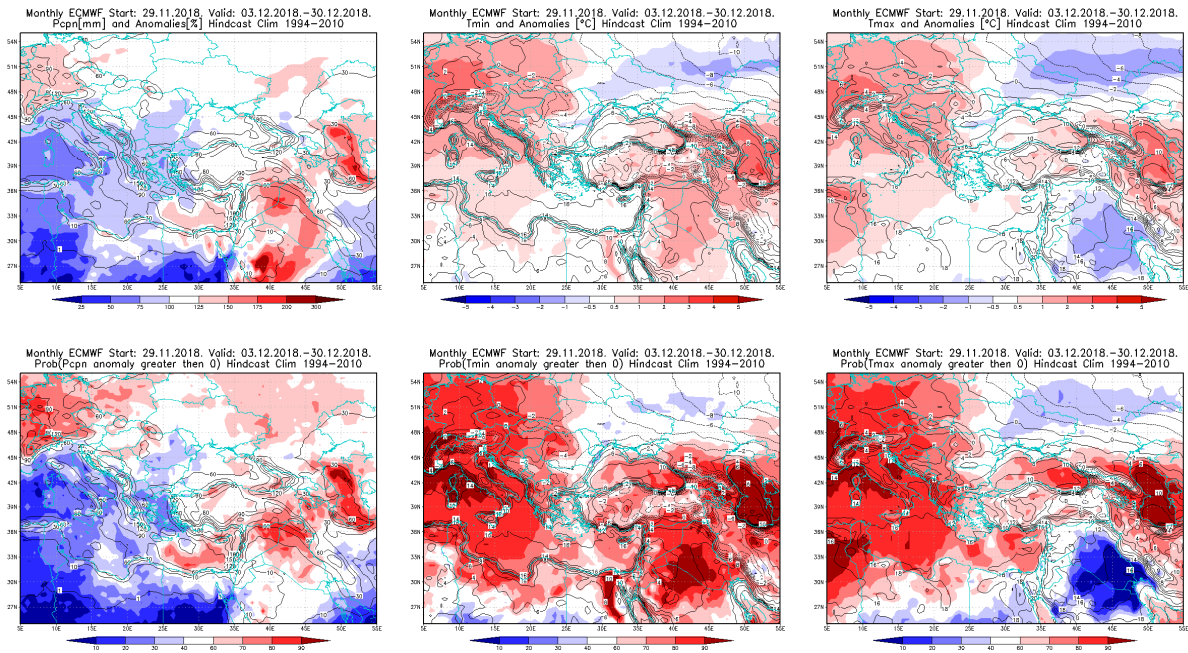


Figure 5. Outlook for the precipitation amount anomaly, minimum and maximum temperature anomalies (upper row), along with the probability of precipitation surplus/deficit and positive minimum and maximum temperature anomalies (lower row) for the 3.12 – 30.12.2018 period

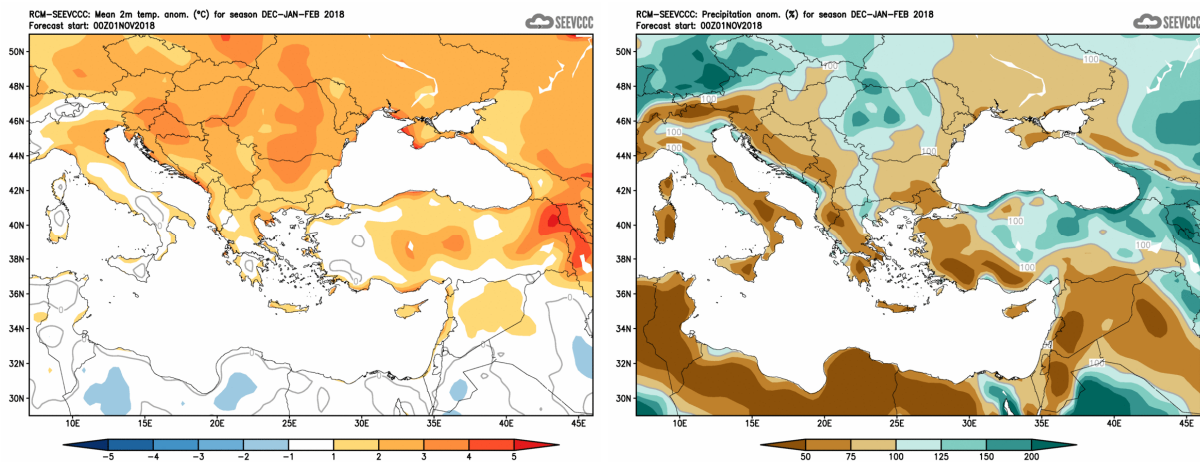


Figure 6. Mean seasonal temperature and precipitation anomaly for the season DJF (seasonal outlook from RCM – SEEVCCC)

Sources

- Republic Hydrometeorological Service of Serbia (www.hidmet.gov.rs)
- 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/>)