

## Climate Watch (Serial No.: 20190114 – 00)

Initial/Updated/Final

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

Organization issuing the statement: SEEVCCC

Issued/ Amended / Cancelled 14-1-2019 12:00 P.M.

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Valid from – to: 14-1 – 31-3-2019 Next amendment: 21-1-2019

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

**„In the period from January 7th to 13th 2019, ECMWF monthly forecast predicts below normal mean weekly air temperature, with anomaly up to -3°C, in most of the SEE region. Probability for exceeding lower tercile is up to 90% in the southern Balkans and western Turkey. Precipitation surplus is expected in Turkey, Cyprus, western Romania, western and eastern Ukraine and most of the Balkans, with probability for exceeding upper tercile ranging from 60% up to 90% in southern Turkey.”**

### Monitoring

In the period from January 6<sup>th</sup> to 12<sup>th</sup> 2019, above normal air temperature was registered in south Caucasus and northernmost Turkey, with anomaly reaching up to +3°C, at some locations even up to +5°C. Below normal air temperature was recorded in rest of the region, with anomaly reaching up to -3°C, in the central Balkans and parts of eastern Romania and northern Ukraine even up to -7°C. Weekly precipitation sums were in a range from 50 up to 200 mm in most of Turkey, the southern and central Balkans, eastern Ukraine, central Moldova and northern Israel. In rest of the region precipitation sums were below 25 mm.

## **Outlook**

Within the first week (January 14<sup>th</sup> to 20<sup>th</sup> 2019), ECMWF monthly forecast predicts below normal mean weekly air temperature, with anomaly up to -3°C, in most of the SEE region. Probability for exceeding lower tercile is up to 90% in the southern Balkans and western Turkey. Above normal mean weekly air temperature, with anomaly up to +2°C, is predicted for the northwestern Balkans, with around 80% probability for exceeding upper tercile, and in south Caucasus forecasted anomaly is up to +3°C with probability for exceeding upper tercile up to 90%. Precipitation surplus is expected in Turkey, Cyprus, western Romania, western and eastern Ukraine and most of the Balkans, with probability for exceeding upper tercile ranging from 60% up to 90% in southern Turkey. Precipitation deficit is forecasted for the eastern Balkans, eastern Romania, Moldova, southwestern Ukraine and south Caucasus, with probability around 60% for exceeding lower tercile.

During the second week (January 21<sup>st</sup> to 27<sup>th</sup> 2019), above normal mean weekly air temperature, with anomaly up to +3°C, is forecasted for the eastern Balkans, eastern Ukraine, south Caucasus and most of Turkey. Probability for exceeding upper tercile is in a range from 70% in the eastern Balkans up to 90% in south Caucasus. Precipitation surplus is expected in the Balkans, Moldova, Romania, most of Ukraine and western Turkey, with around 70% probability for exceeding upper tercile. Precipitation deficit is forecasted for south Caucasus Middle East and eastern Turkey, with probability around 60% for exceeding lower tercile.

In the period from January 14<sup>th</sup> to February 10<sup>th</sup> 2019, above normal mean weekly air temperature, with anomaly up to +2°C, is forecasted for most of Bulgaria, eastern Ukraine, south Caucasus and most of Turkey. Probability for exceeding upper tercile is in a range from 70% in Bulgaria up to 90% in south Caucasus. Precipitation surplus is expected in most of the Balkans, Romania, most of Turkey, as well as some locations in southern and northern Ukraine, with probability for exceeding upper tercile in a range from 70% in northern part of the region up to 90% in the south.

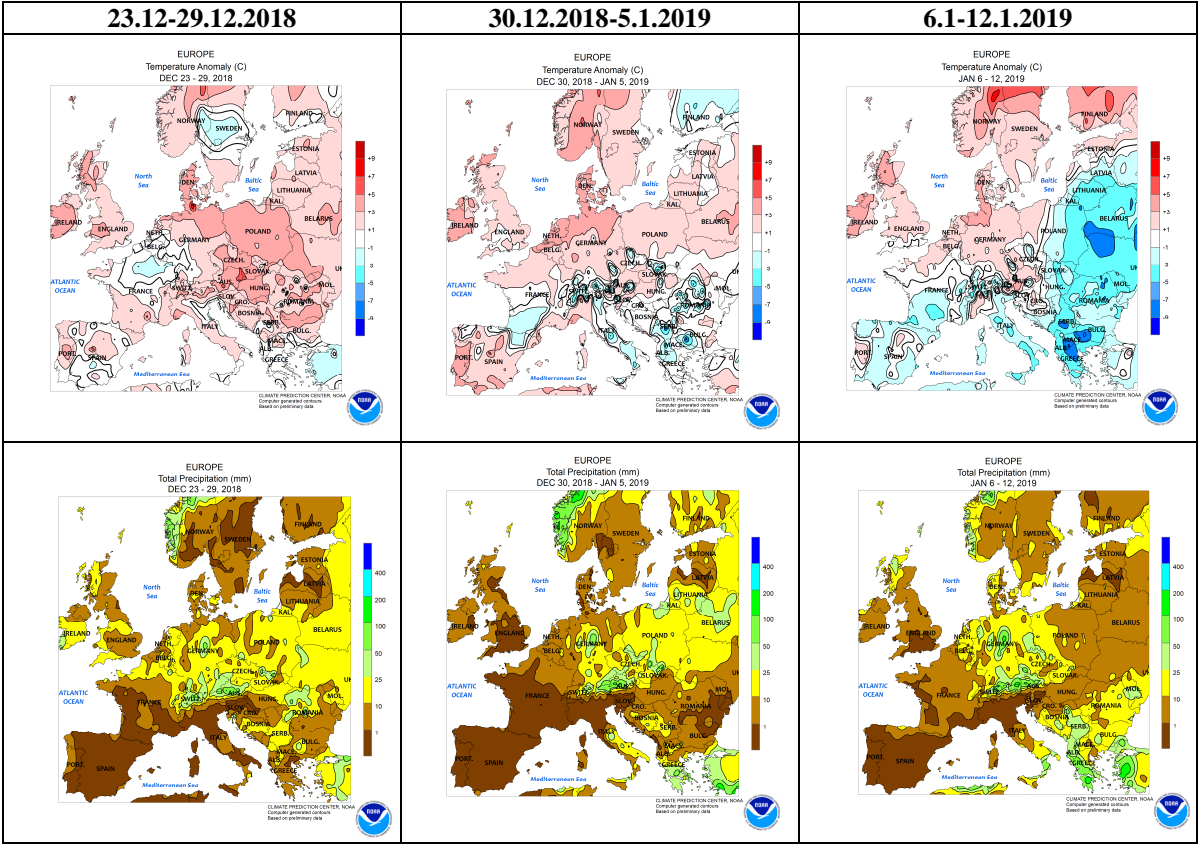
During the following three months (February, March and April) seasonal forecast predicts above normal seasonal air temperature for the eastern and central Balkans, most of Romania, Ukraine and some locations in south Caucasus and in central and eastern Turkey. Precipitation surplus is predicted for the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

## **Update**

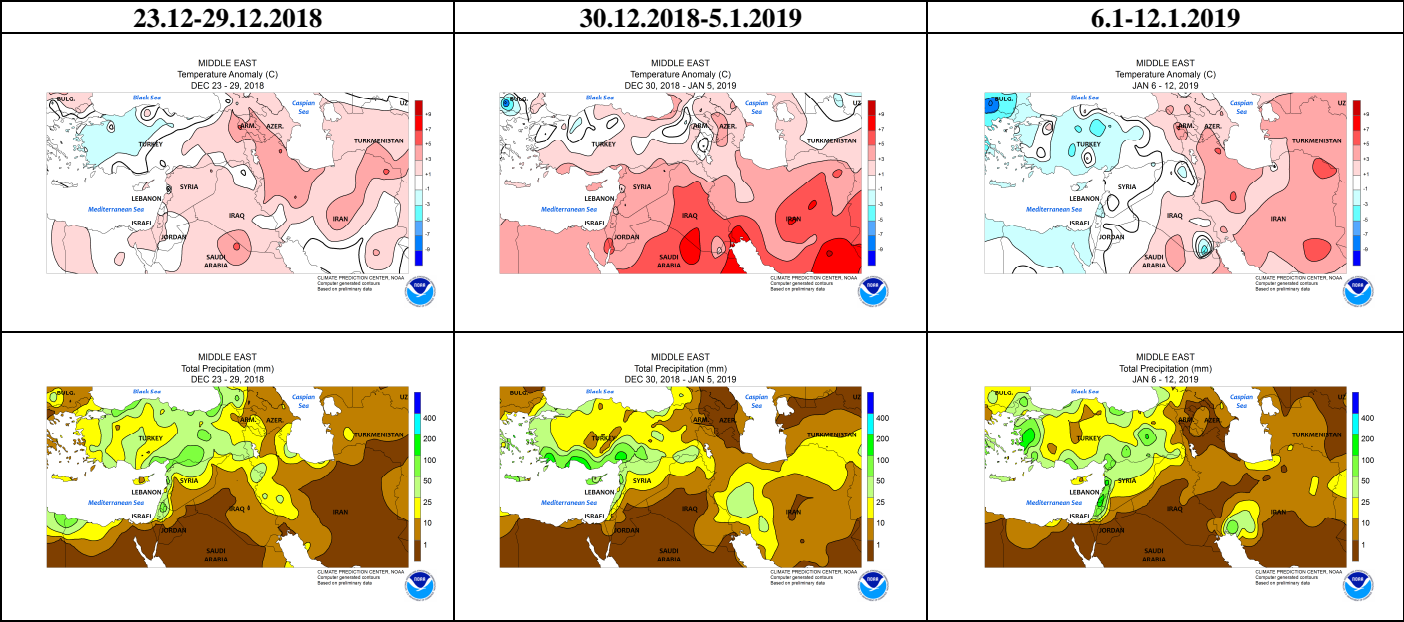
An updated statement will be issued on 21-1-2019

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

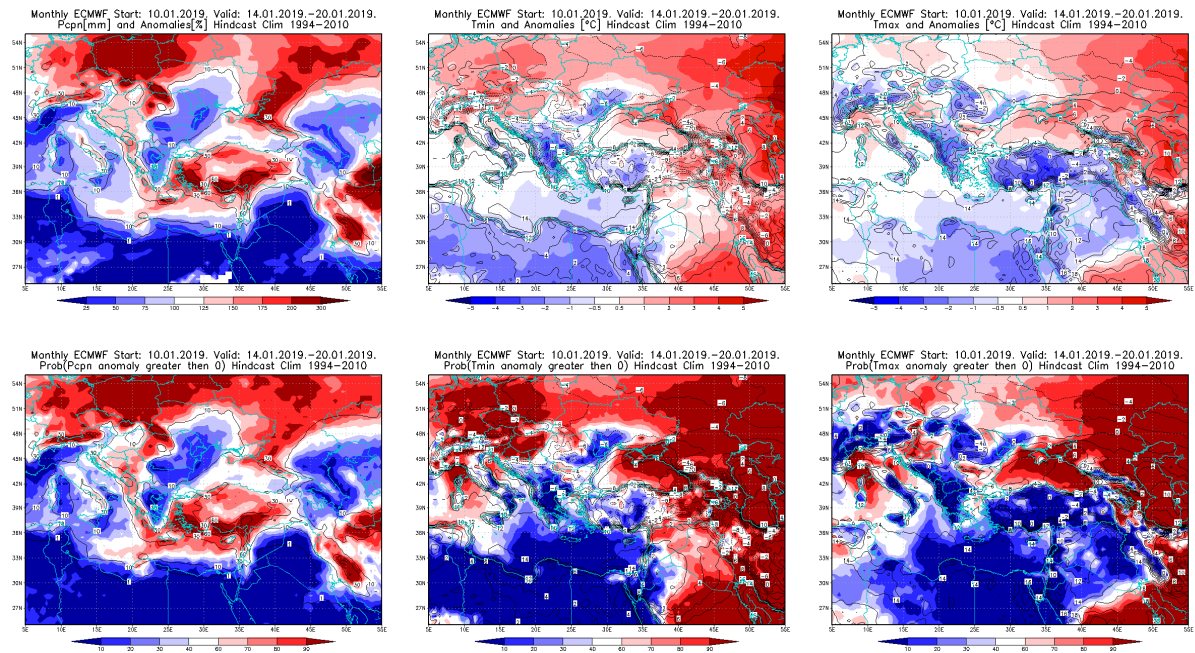
ANNEX



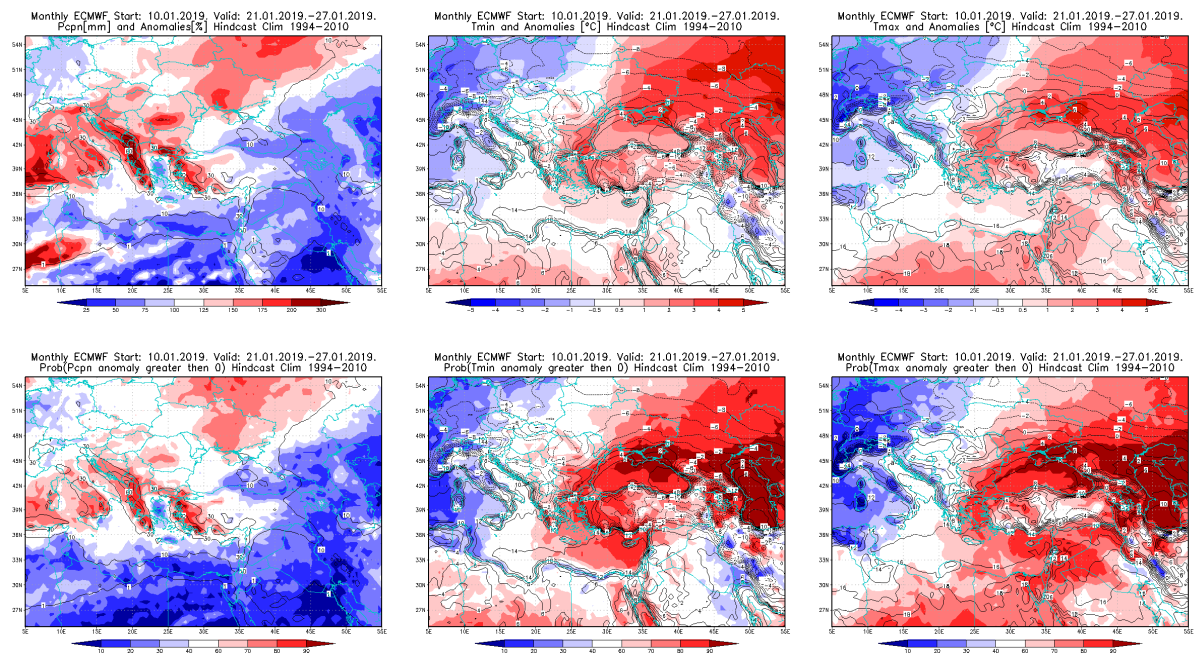
**Figure 1.** Temperature anomaly and total precipitation for recent weeks (source: Climate Prediction Center, USA)



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

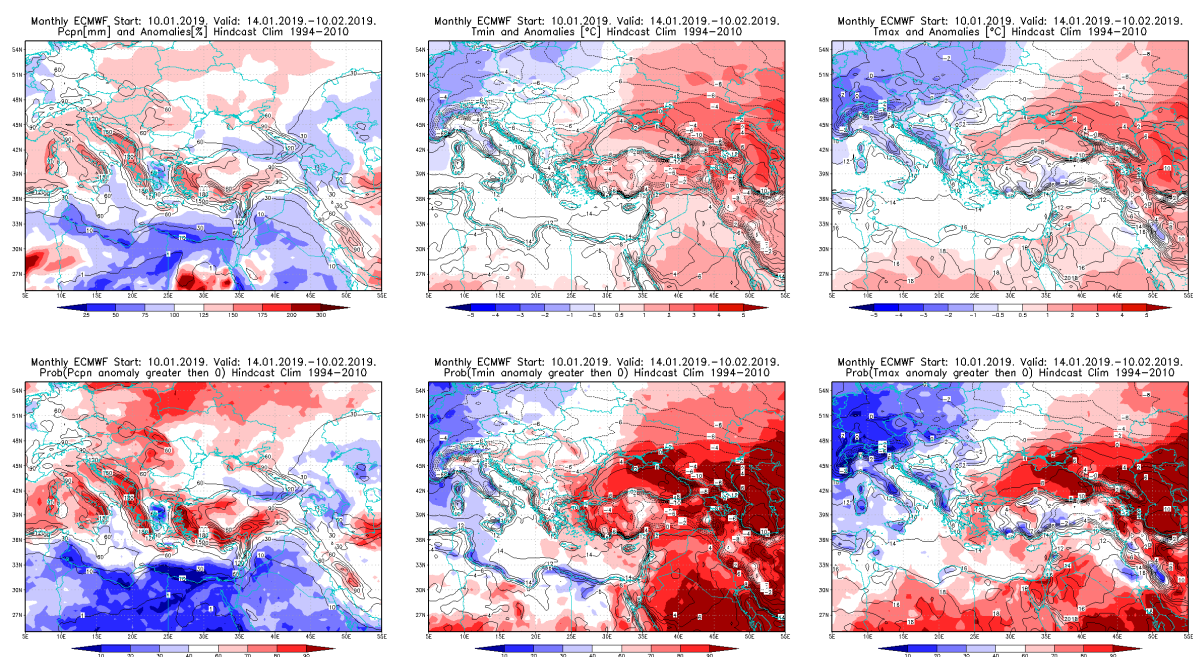


**Figure 3.** Outlook for the precipitation amount anomaly, minimum and maximum temperature anomalies (upper row), along with the probability of precipitation surplus/deficit and positive minimum and maximum temperature anomalies (lower row) for the 14.1 - 20.1.2019 period

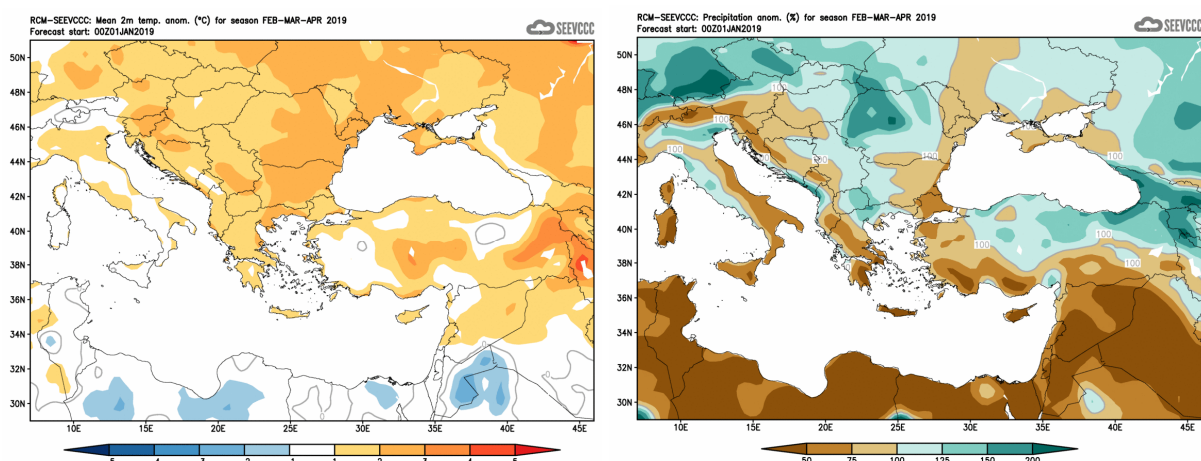


**Figure 4.** Outlook for the precipitation amount anomaly, minimum and maximum temperature anomalies (upper row), along with the probability of precipitation surplus/deficit and positive minimum and maximum temperature anomalies (lower row) for the 21.1 - 27.1.2019 period





**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 14.1 – 10.2.2019 period



**Figure 6.** Mean seasonal temperature and precipitation anomaly for the season FMA (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/>)