Climate Watch (Serial No.: 20181231 – 00)

Initial/Updated/Final

Topic: **temperature** and **precipitation**
Organization issuing the statement: SEEVCCC

Issued/ Amended / Cancelled: 31-12-2018 12:00 P.M.

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Valid from – to: 31-12-2018 – 31-3-2019 Next amendment: 7-1-2019

Region of concern: **Cyprus, Turkey, the Balkans, Romania, Ukraine and Middle East**

„In the period from December 31st 2018 to January 6th 2019, ECMWF monthly forecast predicts below normal mean weekly air temperature, with anomaly up to -4°C and in central Turkey up to -5°C, in southwestern and southern Balkans, northwestern Romania, eastern Ukraine, Cyprus, western and central Turkey, as well as Middle East. Probability for exceeding lower tercile is from 60% in Ukraine, 70% in the Balkans and Middle East, up to 90% in central Turkey. Precipitation surplus is expected in part of the southern and southeastern Balkans, Carpathian region, western Ukraine, eastern Turkey, South Caucasus and Middle East, with up to 90% probability for exceeding upper tercile."

Monitoring

In the period from December 23rd to 29th 2018, above normal air temperature was registered in most of the SEE region, with anomaly reaching up to +5°C and in Armenia even up to +7°C. Below normal air temperature was recorded in western Turkey and southern Balkans, with anomaly up to -3°C. Weekly precipitation sums up to 25 mm were recorded in most of the SEE region. Northwestern Romania, southwestern Bulgaria, eastern Ukraine, western Georgia, northern and parts of eastern Turkey, as well as northern Israel and Jordan, received up to 100 mm of precipitation.

Outlook

Within the first week (December 31st 2018 to January 6th 2019), ECMWF monthly forecast predicts below normal mean weekly air temperature, with anomaly up to -4°C and in central Turkey up to -5°C, in southwestern and southern Balkans, northwestern Romania, eastern Ukraine, Cyprus, western and central Turkey, as well as Middle East. Probability for exceeding lower tercile is from 60% in Ukraine, 70% in the Balkans and Middle East, up to 90% in central Turkey. Precipitation surplus is expected in part of the southern and southeastern Balkans, Carpathian region, western Ukraine, eastern Turkey, South Caucasus and Middle East, with up to 90% probability for exceeding upper tercile.

During the second week (January 7th to 13th 2019), above normal mean weekly air temperature, with anomaly up to +3°C, is forecasted for northern Balkans and Azerbaijan. Below normal mean weekly air temperature, with anomaly up to -3°C, is forecasted for central Turkey and eastern Ukraine. Probability for exceeding upper/lower tercile is up to 60%. Precipitation surplus is expected in the northwestern Balkans, along coast of the Adriatic and Ionian Sea, as well as Carpathian region, with around 60% probability for exceeding upper tercile.

In the period from December 31st 2018 to January 27th 2019, above normal mean monthly air temperature is predicted for northern and central Balkans, Moldova, eastern Turkey and South Caucasus, with anomaly up to +2°C and up to 60% probability for exceeding upper tercile. Only in Azerbaijan up to +3°C is expected, with up to 80% probability for exceeding upper tercile. Below normal mean weekly air temperature, with anomaly up to -2°C, is forecasted for central Turkey, with up to 60% probability for exceeding lower tercile. Precipitation surplus is expected in the northwestern Balkans, along coast of the Adriatic and Ionian Sea, as well as Carpathian region, southeastern Turkey and northern Georgia, with up to 80% probability 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 Balkans, Romania, Moldova, Ukraine, south Caucasus, Cyprus and some locations 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 and Jordan.

Update

An updated statement will be issued on 7-1-2019

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

ANNEX

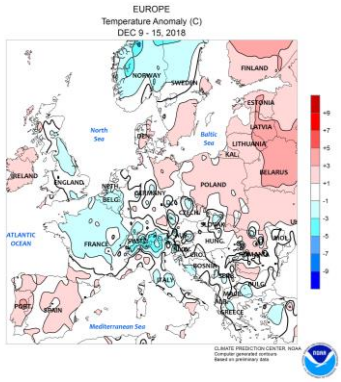
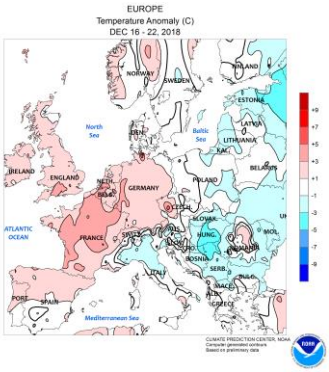
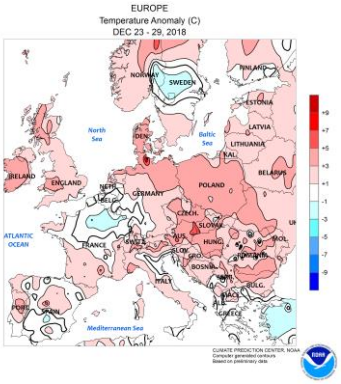
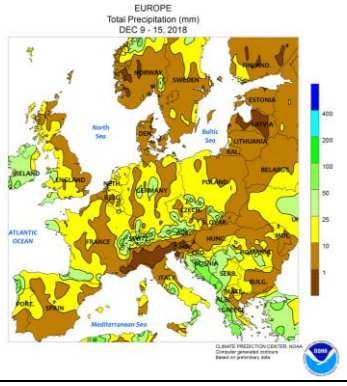
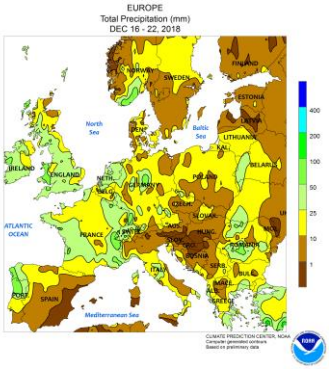
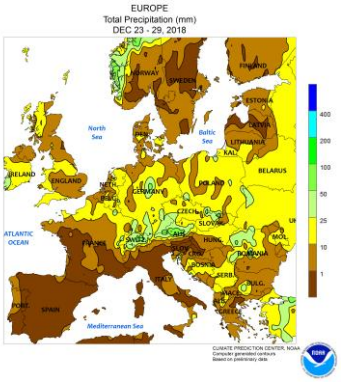
9.12-15.12.2018	16.12-22.12.2018	23.12-29.12.2018
		
		

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

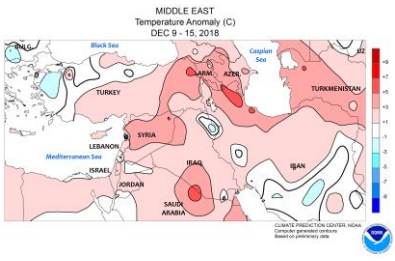
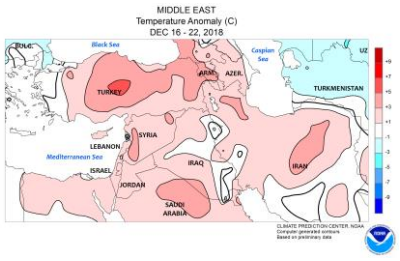
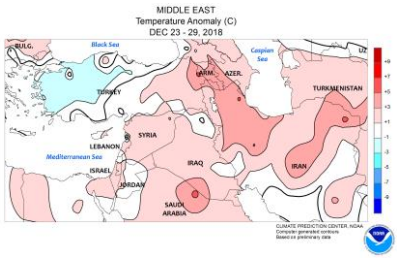
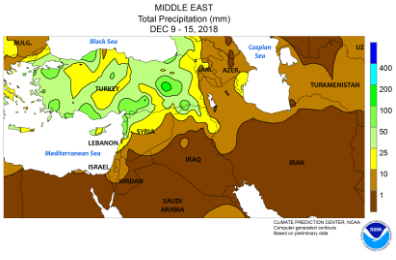
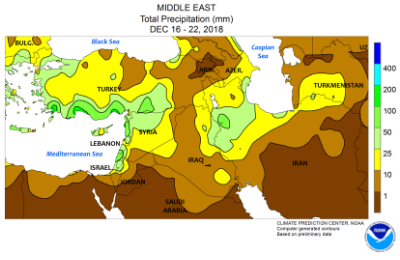
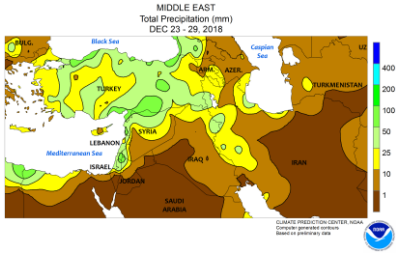
9.12-15.12.2018	16.12-22.12.2018	23.12-29.12.2018
		
		

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

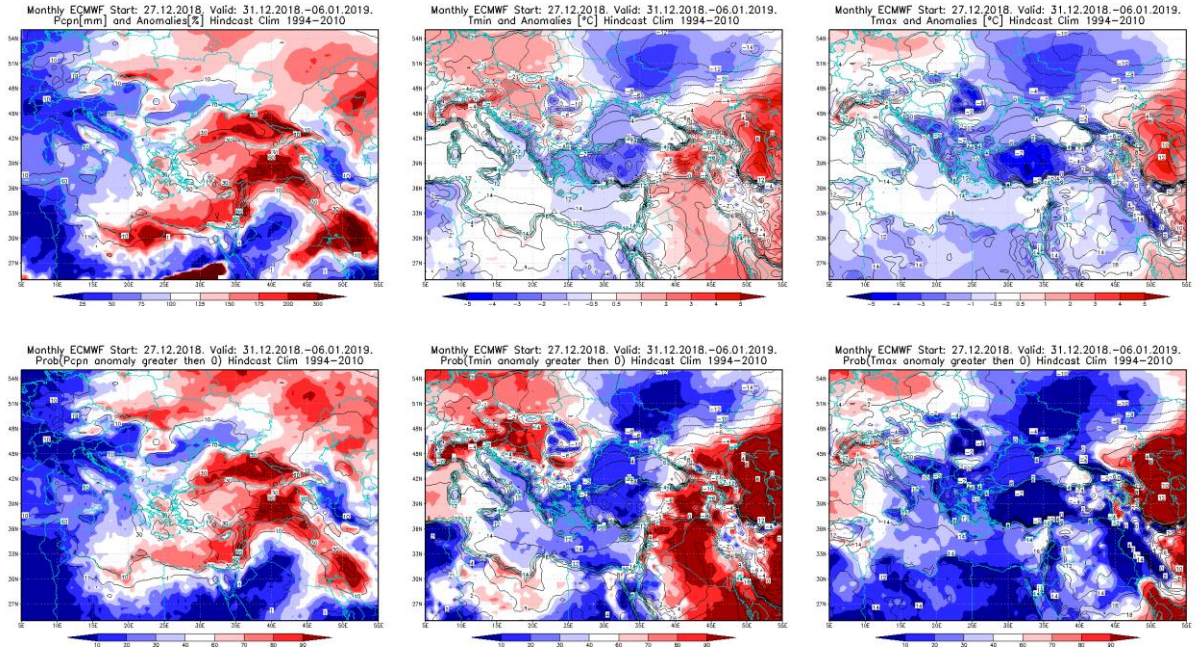


Figure 3. Outlook for the precipitation amount anomaly, minimum and maximum temperature anomalies (upper row), along with the probability of precipitation surplus/deficit and positive minimum and maximum temperature anomalies (lower row) for the 31.12 - 6.1.2019 period

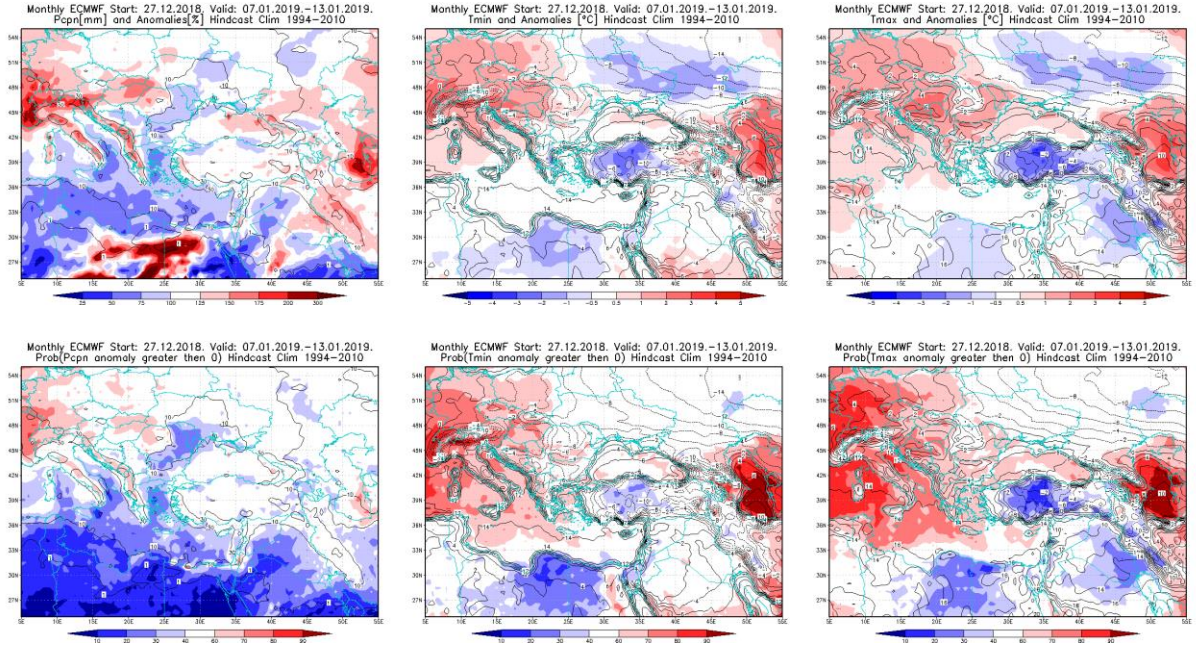


Figure 4. Outlook for the precipitation amount anomaly, minimum and maximum temperature anomalies (upper row), along with the probability of precipitation surplus/deficit and positive minimum and maximum temperature anomalies (lower row) for the 7.1 – 13.1.2019 period

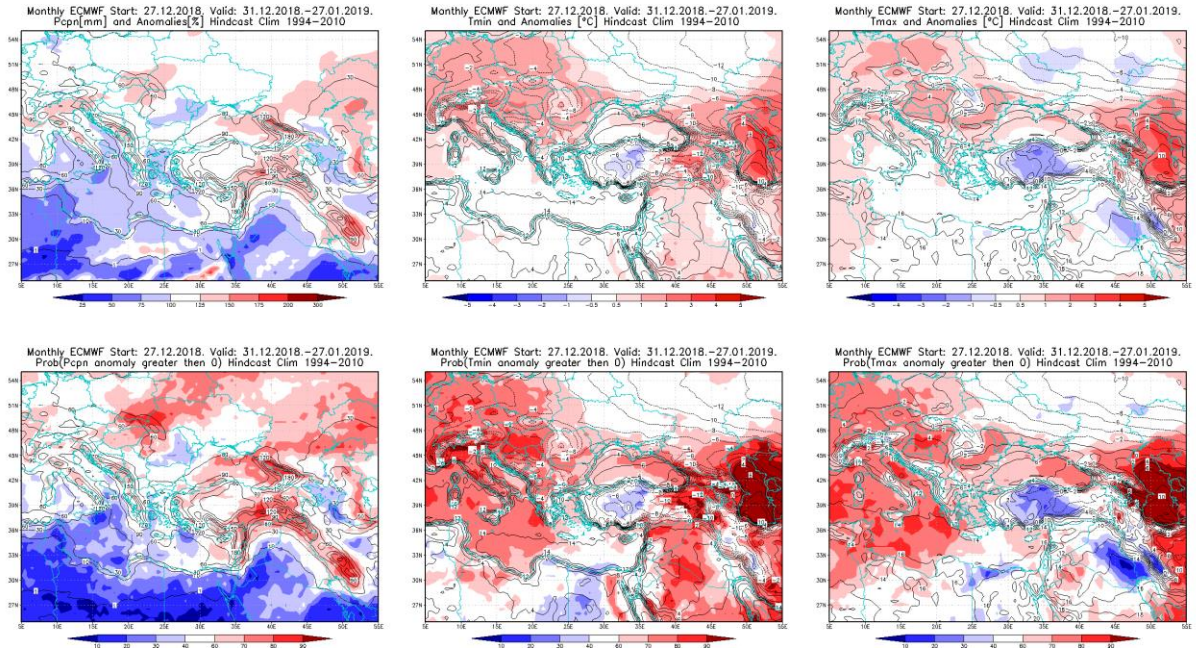


Figure 5. Outlook for the precipitation amount anomaly, minimum and maximum temperature anomalies (upper row), along with the probability of precipitation surplus/deficit and positive minimum and maximum temperature anomalies (lower row) for the 31.12 – 27.1.2019 period

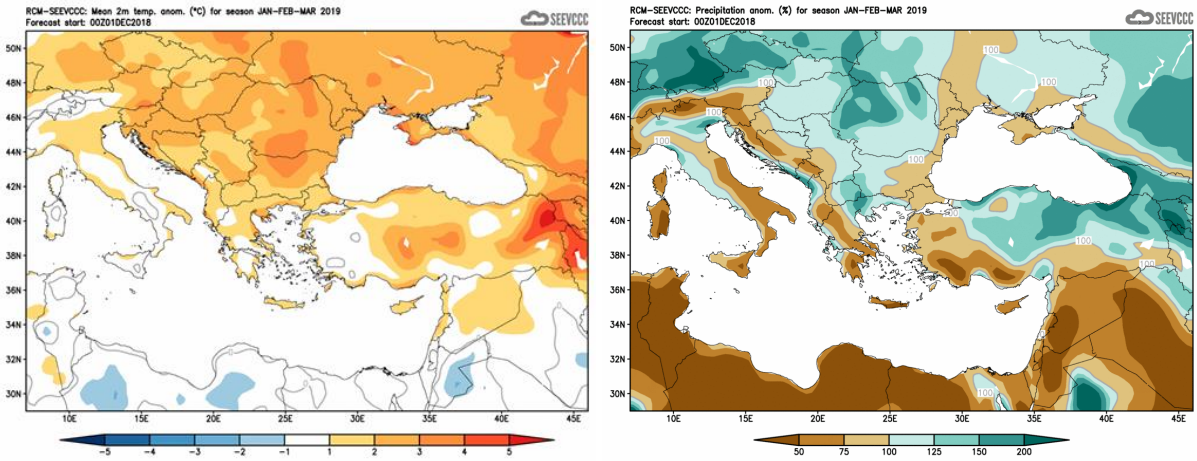


Figure 6. Mean seasonal temperature and precipitation anomaly for the season JFM (seasonal outlook from RCM – SEEVCCC)

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/)