Climate Watch (Serial No.: 20160926– 00)

Initial/Updated/Final

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

Issued/ Amended / Cancelled: 26-9-2016 12:00 P.M.

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Valid from – to: 26-9-2016– 9-10-2016 Next amendment: 3-10-2016

Region of concern: **the SEE region, Ukraine**

„In the period from September 26th to October 2nd 2016, below normal mean weekly air temperature, with anomaly up to -4°C, is expected in most of the region, except northwestern Balkans. Probability for exceeding lower tercile is up to 90%. Precipitation surplus is expected in eastern and southern Ukraine, with 60% probability for exceeding upper tercile."

Monitoring

In the period from September 18th to 24th 2016, below normal air temperature[1] was registered in most of the SEE region, with anomaly up to -3°C, while above normal air temperature, with anomaly up to +3°C, was observed in southern Greece, Cyprus, Israel, northern Turkey and Azerbaijan. Weekly precipitation sums reached 200 mm in northern Turkey, while in western, eastern and southwestern Balkans, as well as western and central Caucasus, they were up to 100 mm. In rest of the region precipitation totals were below 25 mm.

[1] Reference climatological period is the 1981-2010 period

Outlook

Within the first week (September 26th to October 2nd, 2016), ECMWF monthly forecast predicts below normal mean weekly air temperature, with anomaly up to -4°C, in most of the region, except northwestern Balkans. Probability for exceeding lower tercile is up to 90%. Precipitation surplus is expected in eastern and southern Ukraine, with 60% probability for exceeding upper tercile.

During the second week (October 3rd to 26th, 2016), below normal mean weekly air temperature is expected in most of the SEE region, with anomaly up to -2°C. Probability for exceeding lower tercile is up to 60%. Precipitation surplus is expected in eastern and southern Ukraine, with up to 60% probability for exceeding upper tercile.

In the period from September 26th to October 23rd 2016, below normal mean monthly air temperature is expected in the Balkans and southern Ukraine, with up to 60% probability for exceeding lower tercile and anomaly around -1°C, while anomaly up to -2°C is predicted in rest of the SEE region, with around 70% probability for exceeding lower tercile. Precipitation surplus is expected over eastern Ukraine, while deficit is predicted for southern Balkans, Cyprus, south Caucasus, Middle East, southern and eastern Turkey, with up to 60% probability for exceeding upper/lower tercile.

During the following three months (September, October and November) SEEVCCC seasonal forecast predicts above normal seasonal air temperature in the northwestern Balkans and southern Ukraine. Below normal seasonal air temperature is predicted in most of central Turkey, as well as Jordan and Israel. Precipitation deficit is expected over most part of the SEE region, while precipitation surplus is predicted along Adriatic coast, over the Carpathian Mountains, coastal parts of northern and southern Turkey and scattered locations in south Caucasus.

Update

An updated statement will be issued on 3-10-2016

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

ANNEX

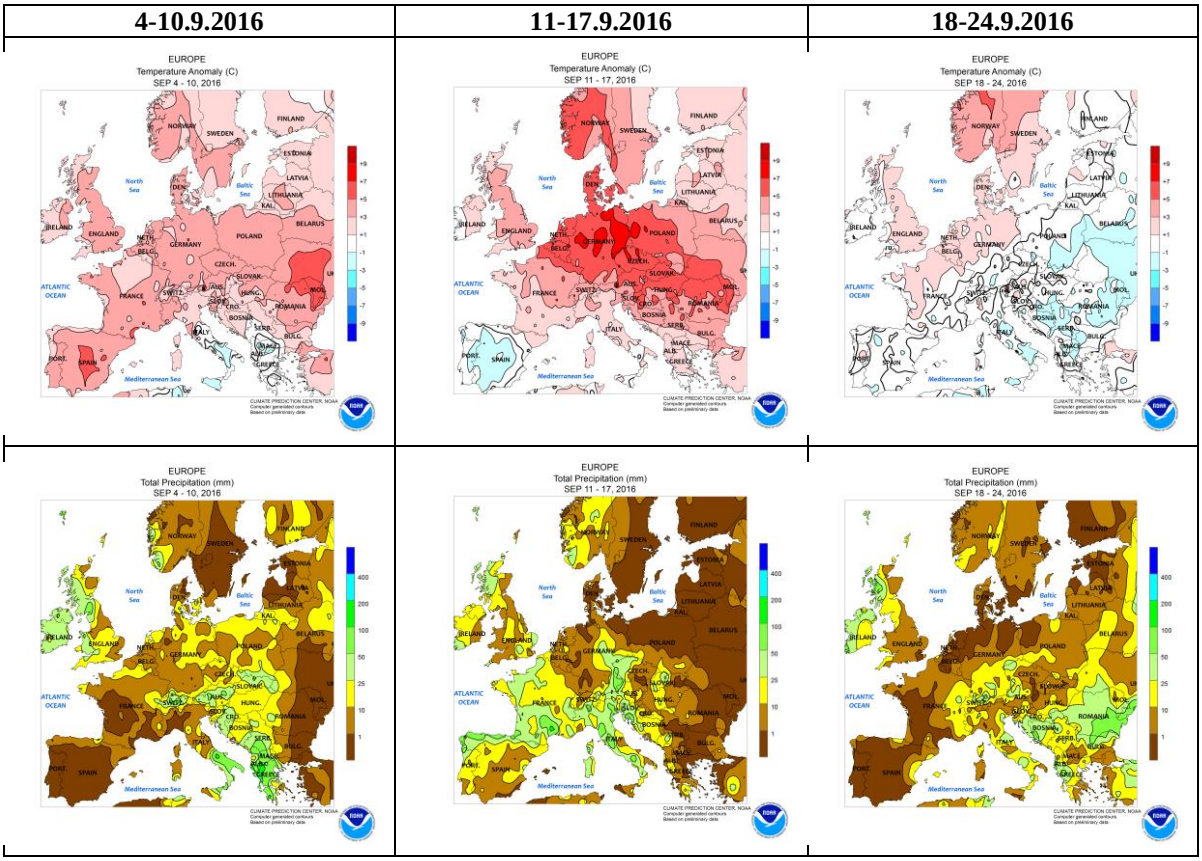

Figure 1. Temperature anomaly and total precipitation for recent weeks (source: Climate Prediction Center, USA)

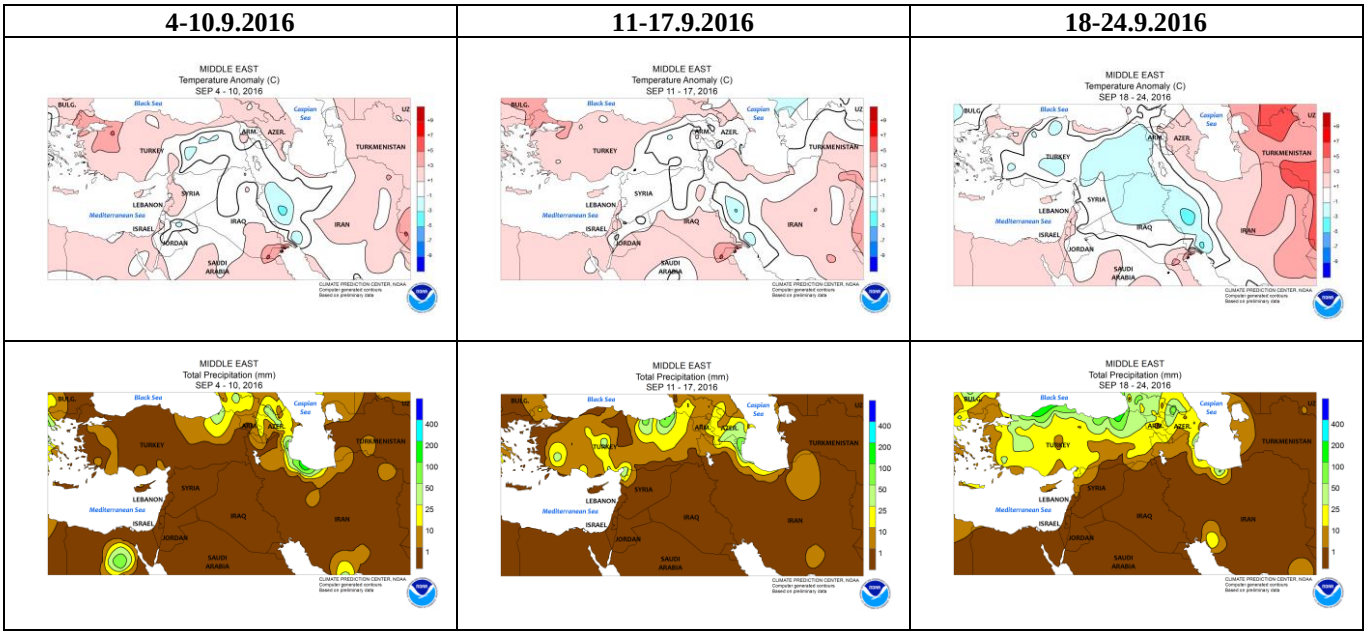

Figure 2. Temperature anomaly and total precipitation for recent weeks for Middle East (source: Climate Prediction Center, USA)

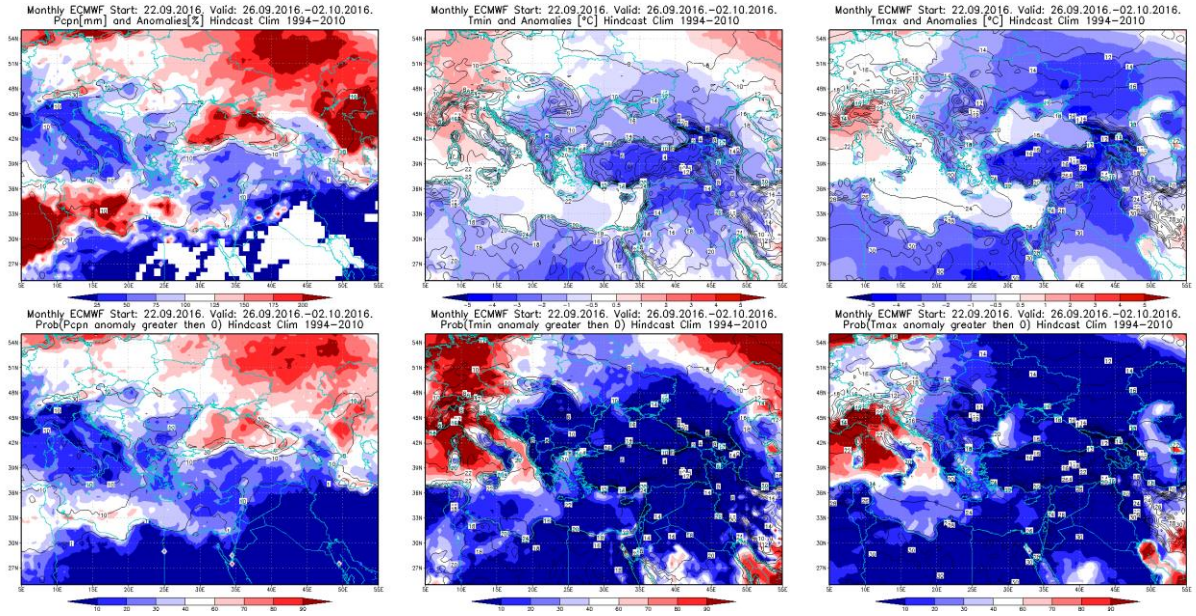

Figure 3. Outlook for the precipitation amount anomaly, minimum and maximum temperature anomalies (upper row), along with the probability of precipitation 26.9–2.10.2016 period

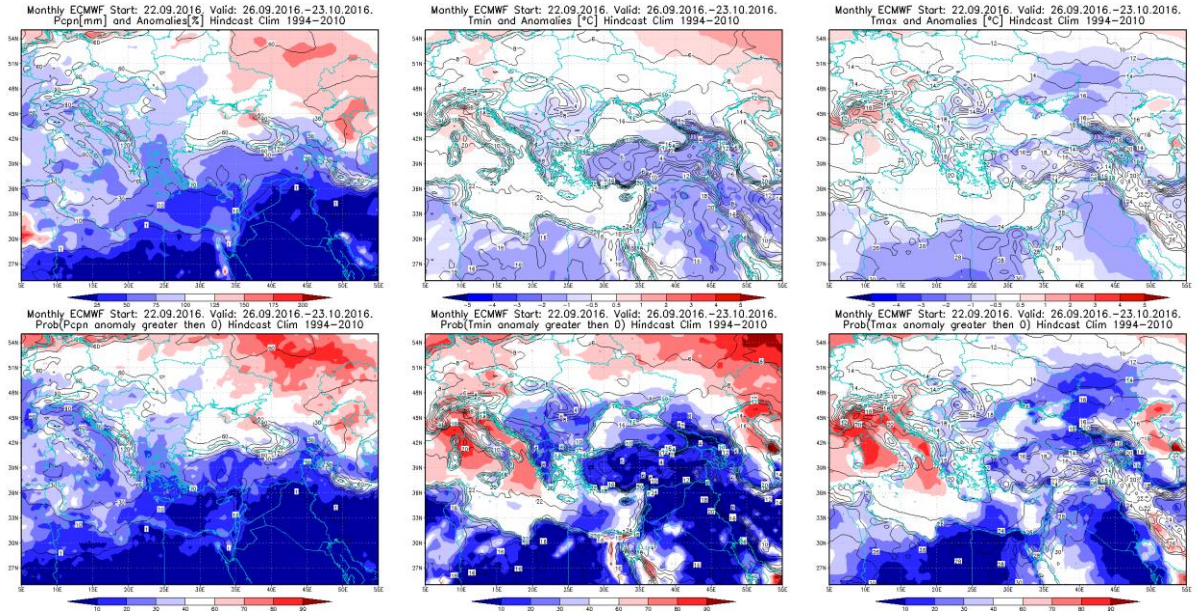

Figure 4. Outlook for the precipitation amount anomaly, minimum and maximum temperature anomalies (upper row), along with the probability of precipitation surplus/deficit and positive minimum and maximum temperature anomalies (lower row) for the 26.9– 23.10.2016 period

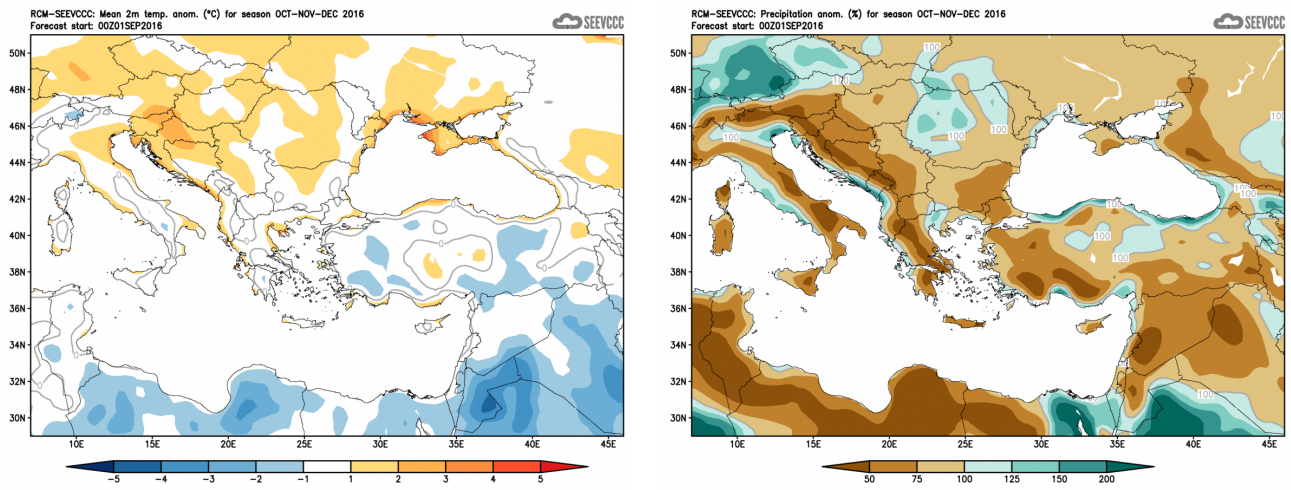

Figure5. Mean seasonal temperature and precipitation anomaly for the season OND (seasonal outlook from RCM – SEEVCCC)

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/)