

Climate Watch (Serial No.: 20130422 – 00)

Initial/Updated/Final

Topic: Precipitation surplus

Warning:

0 No particular awareness

Organization issuing the statement: SEEVCCC

1 Potentially dangerous

2 Dangerous

Issued/ Amended / 22-4-2013 12:00 P.M.
Cancelled

3 Very dangerous

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Valid from – to:

22-4-2013 – 5-5-2013

Next amendment: 29-4-2013

Region of concern: South-eastern Europe

„Above normal temperature is expected in the Balkans and westernmost of Turkey, with anomaly from + 1 °C up to +3 °C. Below normal temperature is expected in central, eastern Turkey and south Caucasus with anomaly from -1 °C up to -3 °C. The probability for these events is around 90%. Precipitation deficit is expected in easternmost of Serbia, most parts of Bulgaria and Romania, Moldova, Turkey and part of south Caucasus. Precipitation surplus is expected in southern Albania, FYR of Macedonia and most parts of Greece. Probability is up to 80%“.

Monitoring

In the period from April 14th to 20th in Turkey, south Caucasus and central Bulgaria temperature below normal 1981-2010¹ with anomaly from -1 °C to -3 °C was recorded. Most parts of Serbia, Romania, eastern Bosnia and Herzegovina and Croatia, the most parts of Montenegro, Albania as well as western part of Greece observed above normal temperature, with anomaly from +1 °C to +3 °C, even up to +5 °C in western part of Croatia, Bosnia and Herzegovina and Montenegro. In most parts of SEE region precipitation was up to 10 mm. In Turkey, most parts of Bulgaria and south Caucasus precipitation amount was up to 50 mm.

Outlook

Within the first week (April 22nd to 28th, 2013), ECMWF monthly forecast predicts above normal temperature in the Balkans and westernmost of Turkey, with anomaly from

¹ Reference climatological period is the 1981-2010 period

+ 1 °C up to +3 °C. Below normal temperature with anomaly from -1 °C up to -3 °C is expected in central, eastern Turkey and south Caucasus. The probability for these events is around 90%. Precipitation deficit is expected in easternmost of Serbia, most part of Bulgaria and Romania, Moldova, Turkey and part of south Caucasus. Precipitation surplus is expected in southern Albania, FYR of Macedonia and most parts of Greece. Probability is up to 80%. Water stage at the highest point of Danube River will recede and hold steady, whereas the middle portion will feature slight rise followed by minor water level drop; downstream firstly on the rise followed by minor receding. Water stage on the upstream portion of Tiza River will slightly recede and recede. The middle part of the river flow features steady water level and slight drop, downstream it will slightly recede and recede. The entire Sava River flow characterizes receding and minor receding. Stagnation is expected on the Drina River.

During the second week (April 29th to May 5th, 2013) above normal temperature, with anomaly around +1 °C, is expected in most part of Serbia, FYR of Macedonia, most parts of Albania, Greece and Bulgaria with probability up to 70%. In Romania, Moldova, Turkey and south Caucasus, temperature anomaly from +1 °C up to +3 °C is expected, with probability around 80%. Surplus is expected only in western Romania, while deficit is expected in south Caucasus. Probability for these events is around 60%. Water stage at the highest point of Danube River will recede and hold steady. Tiza River water level features minor receding and receding. Slight water level drop and stagnation is expected on the entire Sava River flow. Drina River water stage is expected to slightly rise and then stagnate.

In the period from April 22nd to May 19th, in the whole SEE region, with less confidence, average temperature is expected, with the exception of eastern Turkey and south Caucasus where below normal temperature is expected. Average precipitation is expected in the whole SEE region.

During the following three months (May, Jun, July) SEEVCCC seasonal forecast predicts above normal temperature, with anomaly from +1 °C up to +4 °C, in the Balkans and part of southern Turkey. Temperature below normal, with anomaly around -2 °C, is expected in central part of Turkey. Precipitation deficit is expected in northern and southern Serbia, southern and southwestern Bosnia and Herzegovina, Croatia, most parts of Montenegro, south Albania, Moldova, southeastern Bulgaria, eastern Romania, along the costal region of Greece, western Turkey. While surplus is expected in central Romania, part of northern Turkey and south Caucasus.

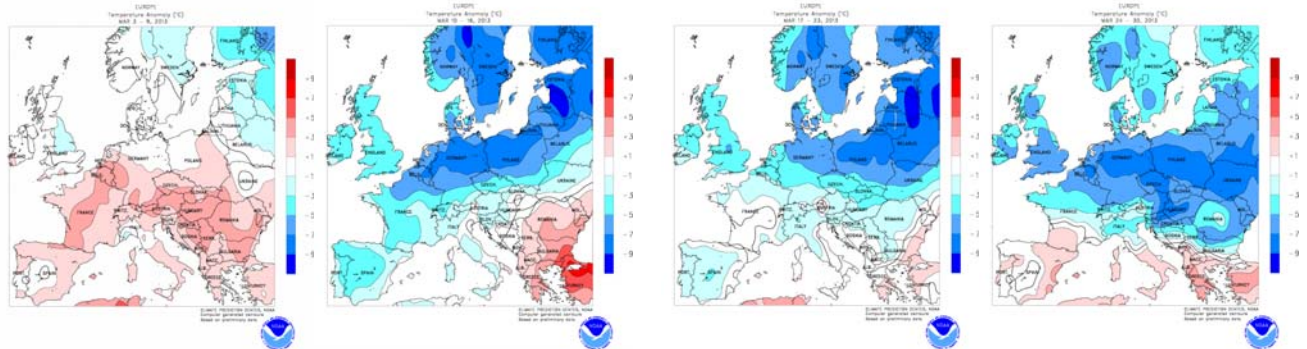
Update

An updated statement will be issued on 29-4-2013.

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

ANNEX

3-3 -2013– 9-3-2013 10-3 -2013– 16-3-2013 17-3 -2013– 23-3-2013 24-3 -2013– 30-3-2013



31-3 -2013– 6-4-2013 7-4 -2013– 13-4-2013 14-4-2013 –20-4-2013

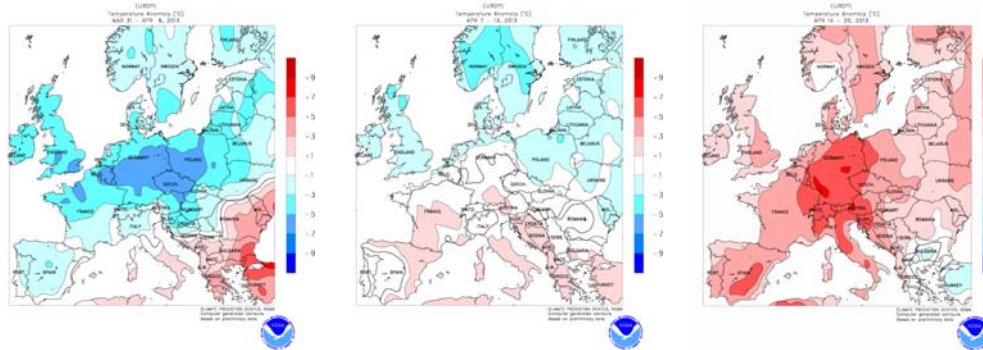
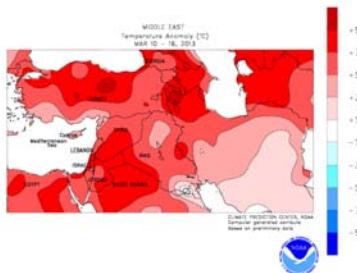
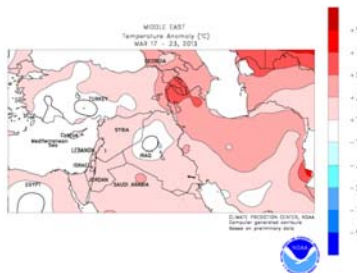


Figure 1. Temperature anomaly for recent weeks (source: Climate Prediction Center, USA)

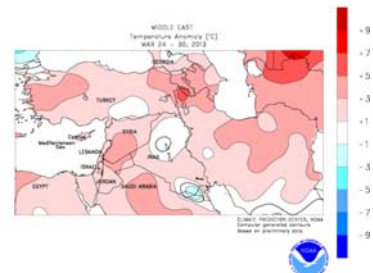
10-3 -2013– 16-3-2013



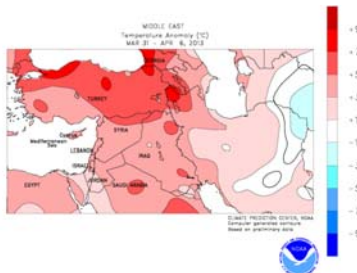
17-3 -2013– 23-3-2013



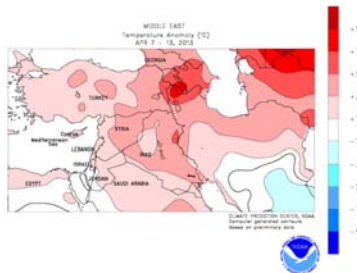
24-3 -2013– 30-3-2013



31-3 -2013– 6-4-2013



7-4 -2013– 13-4-2013



14-4-2013– 20-4-2013

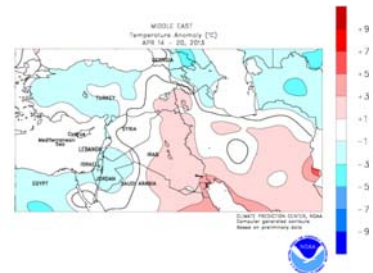


Figure2. Temperature anomaly for recent weeks for Middle East (source: Climate Prediction Center, USA)

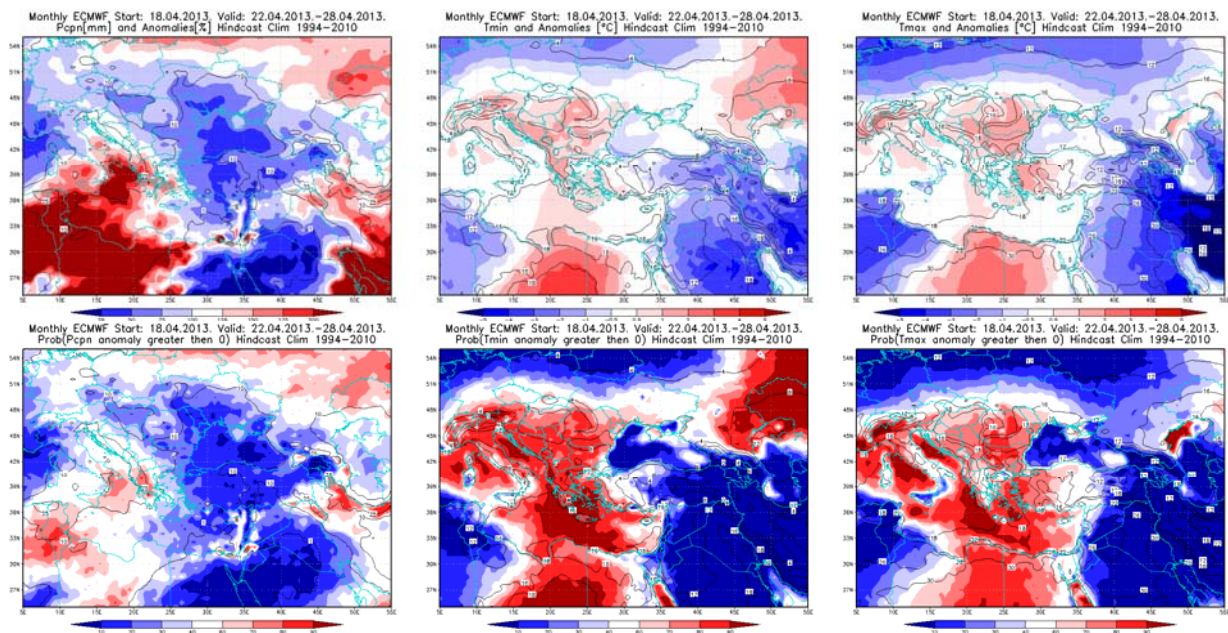


Figure 3. Outlook of the precipitation amount anomaly, minimum and maximum temperature anomalies (upper row), along with the probability of precipitation surplus and positive minimum and maximum temperature anomalies (lower row) for the 22 –28.4.2013 period

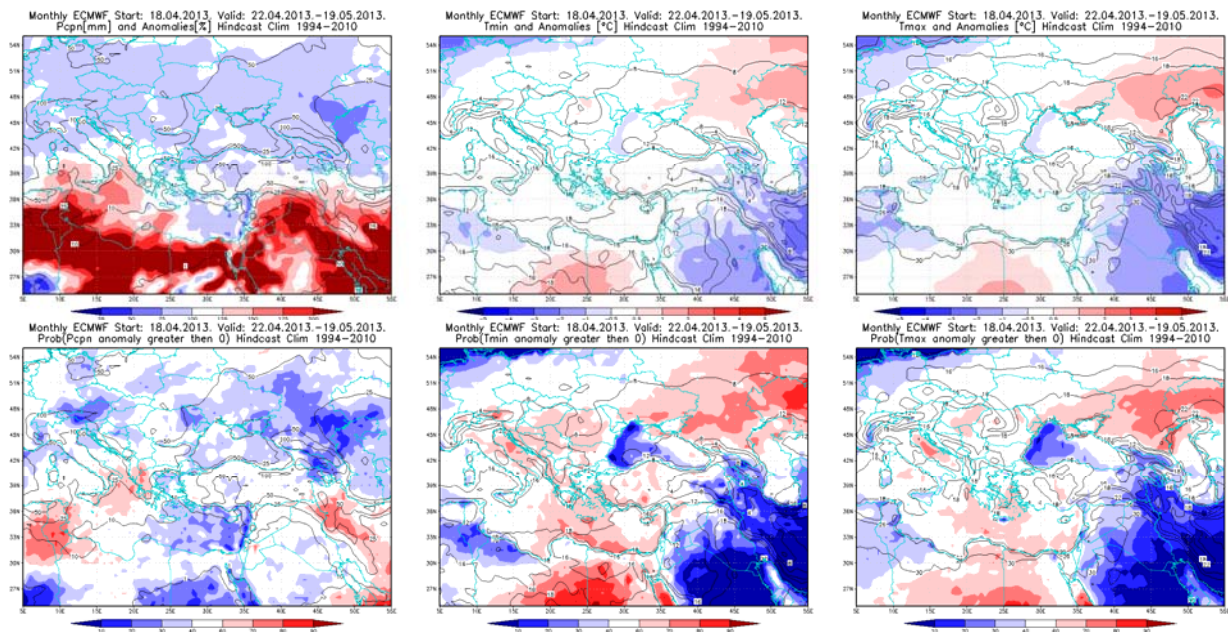


Figure 4. Outlook of the precipitation amount anomaly, minimum and maximum temperature anomalies (upper row), along with the probability of precipitation surplus and positive minimum and maximum temperature anomalies (lower row) for the 22.04– 19.05.2013 period

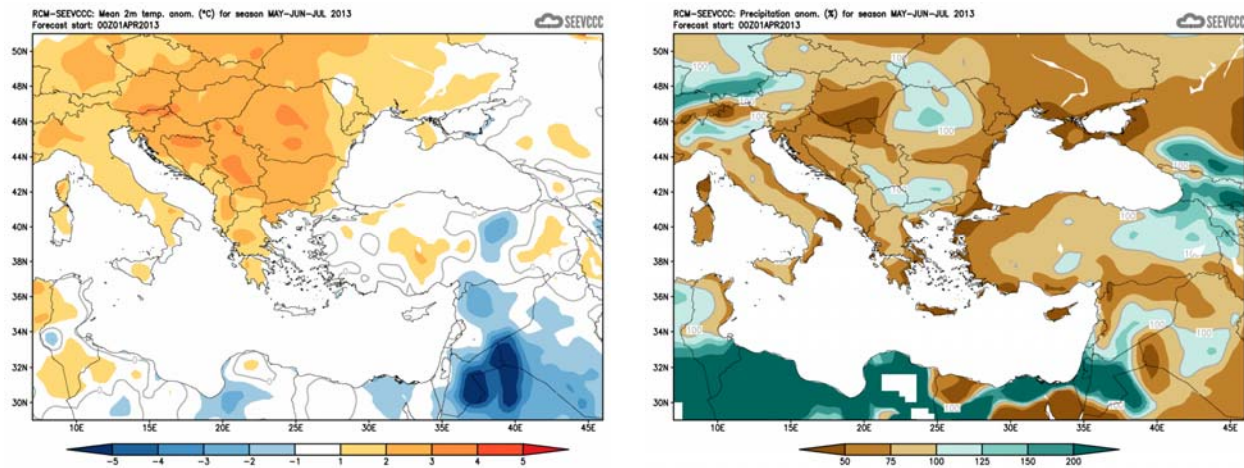


Figure 5. Mean seasonal temperature and precipitation anomaly for the season MJJ (seasonal outlook of RCM – SEEVCCC)

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/>)