Climate Watch (Serial No.: 20130325 – 00)

Initial/Updated/Final

Topic: Precipitation surplus	Warning:	0	No particular awareness
Organization issuing the statement: SEEVCCC		1	Potentially dangerous
		2	Dangerous
Issued/ Amended / Cancelled: 25-3-2013 12:00 P.M.		3	Very dangerous

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Valid from – to: 25-3-2013 – 7-4-2013 Next amendment: 1-4-2013

Region of concern: South-eastern Europe

„Temperature below normal in the Balkans, with anomaly from -2 ^{o}C up to -6 ^{o}C, is expected. In most part of Turkey and south Caucasus temperature above normal is expected, with anomaly from +1 ^{o}C up to +4 ^{o}C. The probability for these events is around 90%. Precipitation surplus is expected in the Balkans as well as in western and central parts of Turkey, with probability around 90%. Precipitation deficit is expected in eastern and southern Turkey and south Caucasus, with probability around 80%. Water level rise is expected downstream of Tiza, on middle course of Sava and on Drina river ".

Monitoring

In the period from March 17 to 23, northern Moldova, northern, western and southwestern Romania, western Bulgaria, eastern and northern Serbia, northern Croatia and northernmost of Bosnia and Herzegovina experienced mean temperature below normal 1981-2010[1], with anomaly from -1 ^{o}C up to -3 ^{o}C. In southern Romania, southern Bulgaria, southern Greece, most part of Turkey and in south Caucasus mean temperature was above normal 1981-2010, with anomaly from +1 ^{o}C up to +5 ^{o}C. In most of SEE region precipitation amount was from 25 up to 100mm, with the exception from southernmost Romania, southernmost Bulgaria, most part of FYR of Macedonia, most part of Greece, part of central Turkey, eastern Turkey and mostly over south Caucasus where amount was up to 10 mm.

Outlook

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

Within the first week (March 25th to 31st, 2013), ECMWF mounthly forecast predicts temperature below normal in the Balkans, with anomaly from -2 °C up to -6 °C. In most part of Turkey and south Caucasus temperature above normal is expected, with anomaly from +1 °C up to +4 °C. The probability for these events is around 90%. Precipitation surplus is expected in the Balkans and western and central parts of Turkey, with probability around 90%. Precipitation deficit is expected in eastern and southern Turkey and south Caucasus, with probability around 80%. Danube River level will hold steady. Water level in the upper course of Tiza River will stagnate, whereas a minor rise will occur downstream. The most upper course of Sava River is expected to hold steady and the middle course is featured by stagnation and slight receding. A minor water level rise is expected on Drina River.

During the second week (April 1st to 7th, 2013) temperature below normal, with anomaly up to -2 °C, is expected in the Balkans. The probability is around 60%. Temperature above normal is expected in central and eastern Turkey and south Caucasus, with anomaly around +2 °C, and probability around 60%. Precipitation surplus is expected in Serbia, Croatia, Bosnia and Herzegovina, Montenegro, Albania, FYR of Macedonia, Greece, western Romania, southern Bulgaria, westernmost and southern Turkey. The probability for these events is around 70%. Water level on Danube River will hold steady; stagnation and slight receding will be observed downstream. Tiza River will hold steady. This week will characterize stagnation and slight receding of Sava River level. Drina River is expected to hold steady, then rise, leading to water level rise.

In the period from March 25th to April 21st, in the Balkans, below average temperature is expected, with anomaly from -1 °C up to -4 °C. In most part of Turkey and south Caucasus, above average temperature, with anomaly up to +2, is expected. The probability for these events is up to 80%. Precipitation surplus is expected in most of Balkans and western Turkey, with probability up to 90%.

During the following three months (April, May, Jun) SEEVCCC seasonal forecast predict temperature above normal, with anomaly up to +2 °C, in most of Balkans, part of central Turkey and in some part of South Caucasus. Precipitation deficit is expected in northern Serbia, northern Croatia and along the costal regions, while surplus is expected in eastern FYR of Macedonia, central Romania, easternmost of Turkey and south Caucasus.

Update

An updated statement will be issued on 25-03-2013.

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

ANNEX

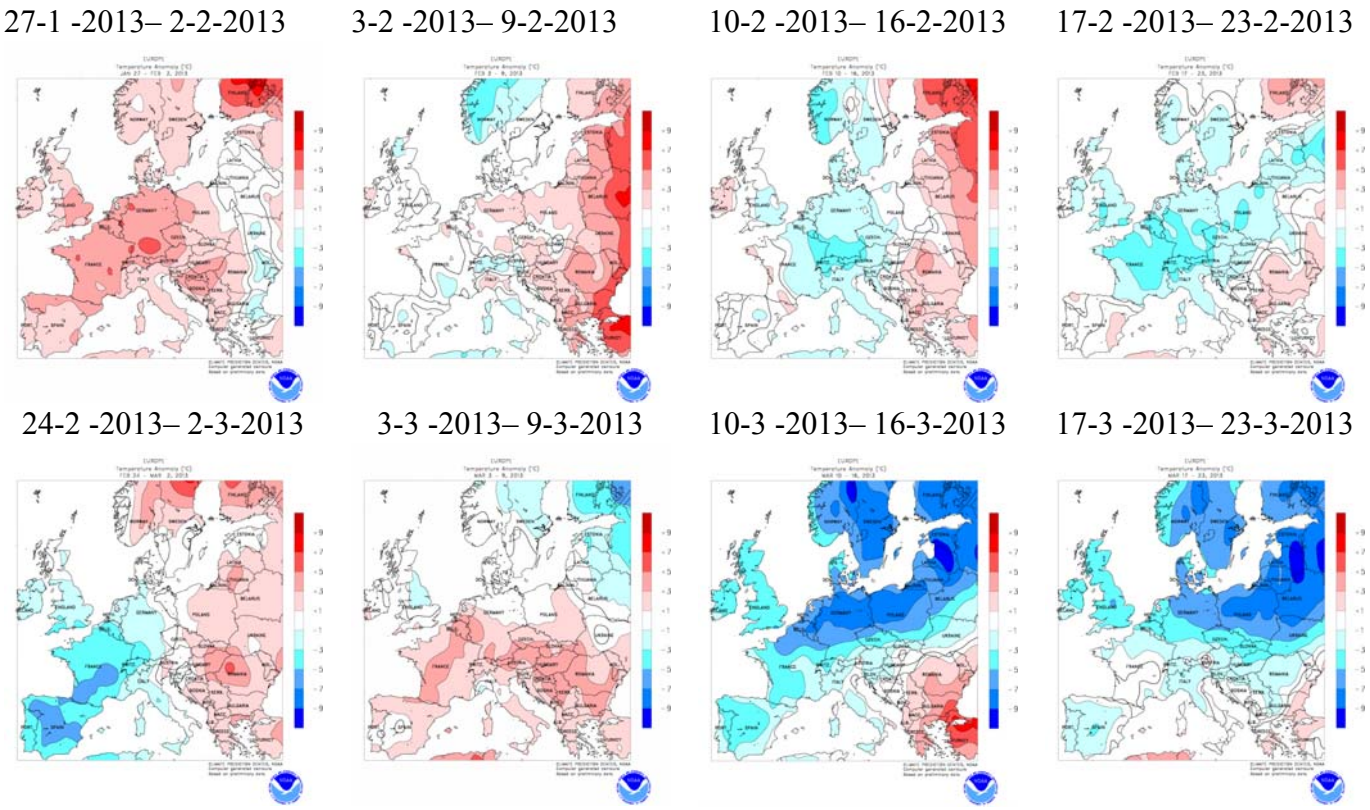

Figure 1. Temperature anomaly for recent weeks (source: Climate Predication Center, USA)

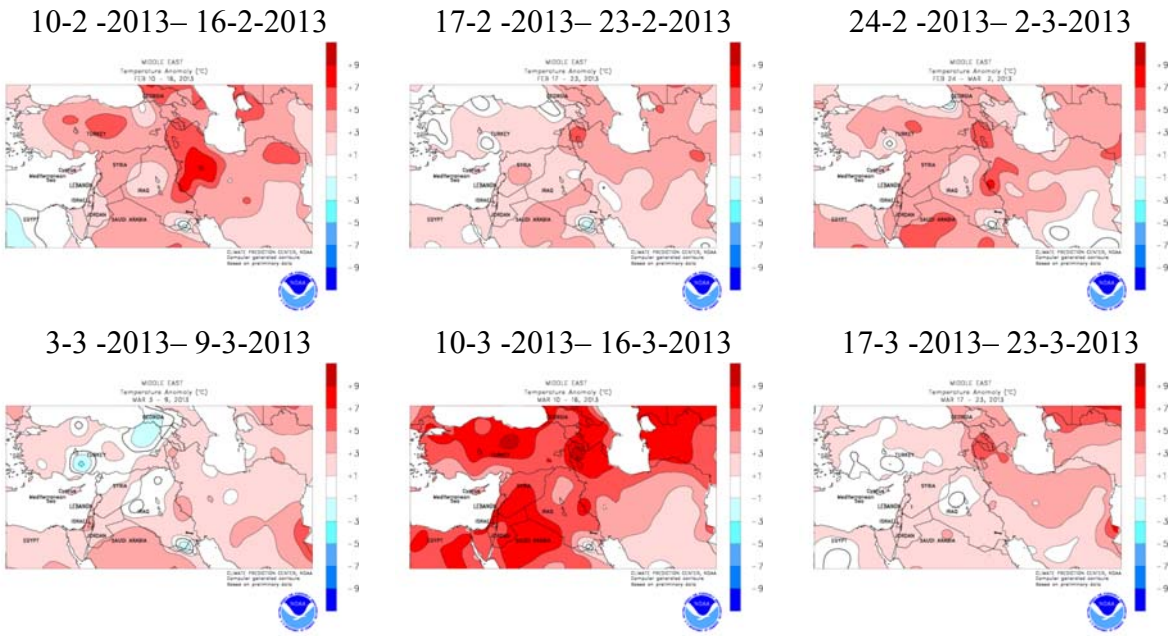

Figure 2. Temperature anomaly for recent weeks for Middle East (source: Climate Predication Center, USA)

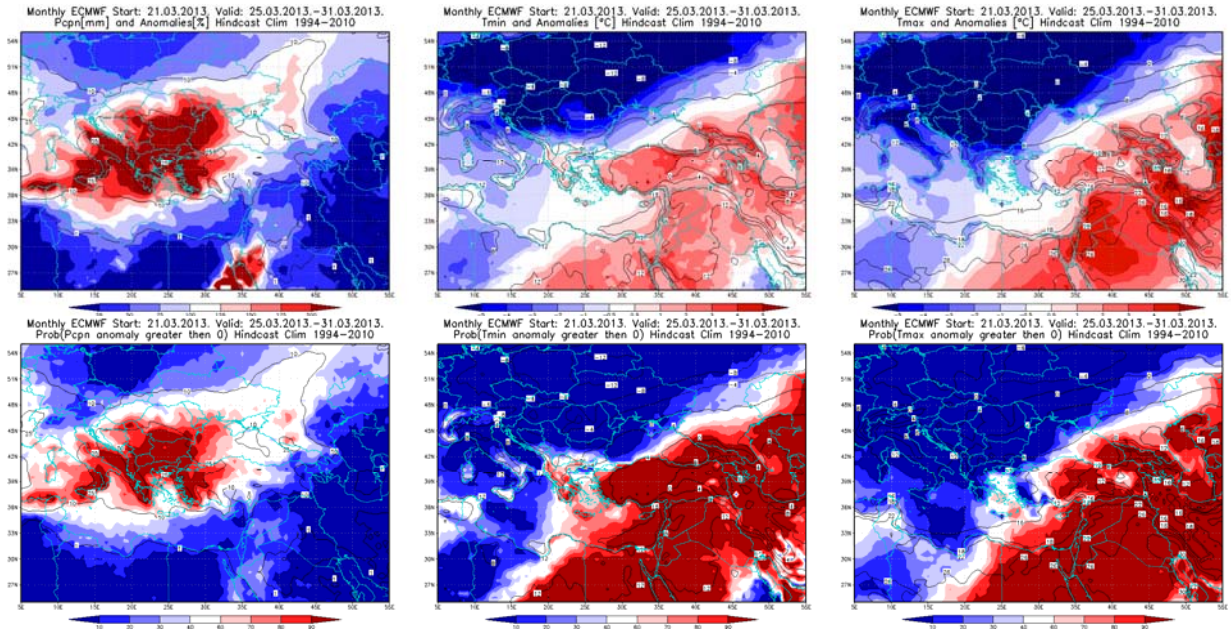

Figure 3. Outlook of the precipitation amount anomaly, minimum and maximum temperature anomalies (upper row), along with the probability of precipitation surplus and positive minimum and maximum temperature anomalies (lower row) for the 25 –31.03.2013 period

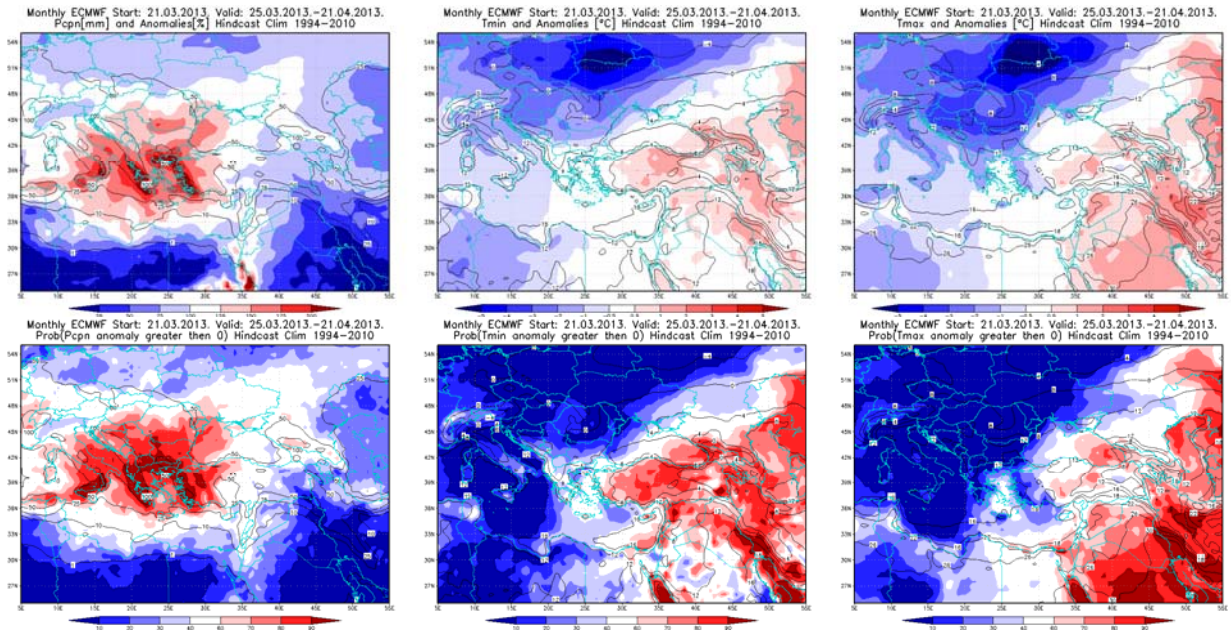

Figure 4. Outlook of the precipitation amount anomaly, minimum and maximum temperature anomalies (upper row), along with the probability of precipitation surplus and positive minimum and maximum temperature anomalies (lower row) for the 25.03– 21.04.2013 period

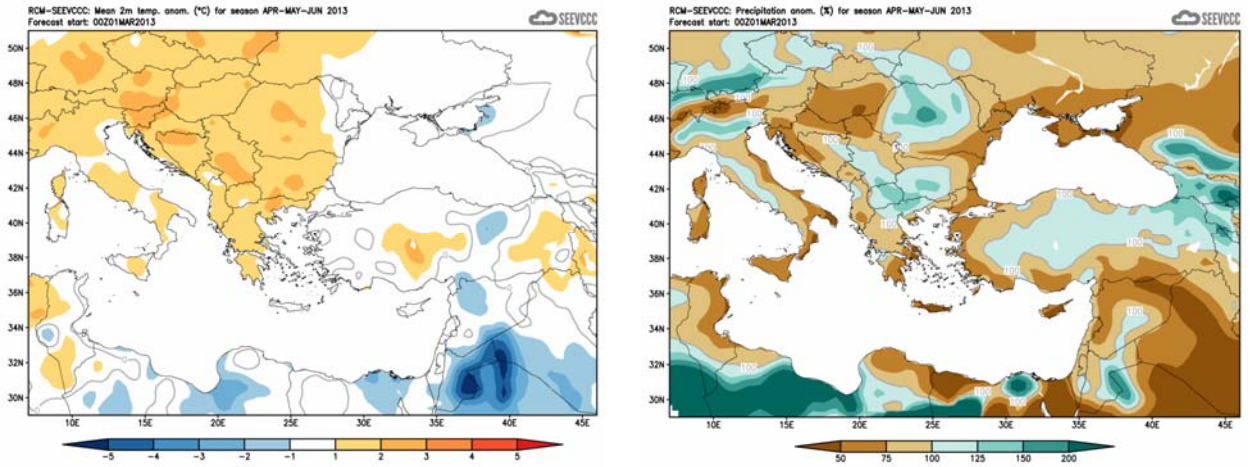

Figure 5. Mean seasonal temperature and precipitation anomaly for the season AMJ (seasonal outlook of RCM – SEEVCCC)

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/)