Climate Watch (Serial No.: 20130520 – 00)

Initial/Updated/Final

Topic:		Warning:	0 No particular awareness
Organization issuing the statement:	SEEVCCC		1 Potentially dangerous
			2 Dangerous
Issued/ Amended / Cancelled	20-05-2013 12:00 P.M.		3 Very dangerous
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Valid from – to:	20-05-2013 – 02-06-2013	Next amendment: 27-05-2013	

Region of concern: South-Eastern Europe

„Below normal temperature, with anomaly from -1 ^{o}C up to -3 ^{o}C, is expected in Croatia, Bosnia and Herzegovina, FYR of Macedonia, Albania, northwest and southwest Serbia, west Romania, eastern and southeastern Turkey. Positive anomaly, from +1 ^{o}C up to +3 ^{o}C is expected in the remainder of the region. The probability for these events is around 90%. Precipitation surplus is expected along Adriatic, Croatia, west and south Bosnia and Herzegovina, northeastern Serbia, Montenegro, Albania, Romania, west Greece, east and southeast Turkey and south Caucasus. Precipitation deficit is expected in most parts of Greece, south Bulgaria, west, southwest and central Turkey. Probability for exceeding upper/lower tercile is up to 90%.

Monitoring

In the period from May 12th to 18th in most parts of SEE region temperature above normal 1981-2010[1], with anomaly from +1 ^{o}C up to +5 ^{o}C was recorded. In south and southeastern Turkey, below normal temperature, with anomaly from -1 ^{o}C up to -3 ^{o}C was recorded. Over western and southwestern Serbia, central Romania, northern FYR of Macedonia, southeastern Bosnia and Herzegovina and Turkey, precipitation amount was up to 100 mm.

Outlook

Within the first week (May 20th to 26th, 2013), ECMWF mounthly forecast predicts below normal temperature, with anomaly from -1 ^{o}C up to -3 ^{o}C, in Croatia, Bosnia and Herzegovina, FYR of Macedonia, Albania, northwest and southwest Serbia, west Romania, eastern and southeastern

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

Turkey. In rest of the region positive anomaly is expected, from +1 ^{o}C up to +3 ^{o}C. The probability for these events is around 90%. Precipitation surplus is expected along Adriatic, Croatia, west and south Bosnia and Herzegovina, northeastern Serbia, Montenegro, Albania, Romania, west Greece, east and southeast Turkey and south Caucasus. Precipitation deficit is expected in most part of Greece, south Bulgaria, west, southwest and central Turkey. Probability for exceeding upper/lower tercile is up to 90%. The water level on the most upstream portion of Danube River will slightly rise; the middle portion will characterize stagnation followed by minor receding whereas marginal receding and stagnation is expected downstream. Water levels on the upstream portion of Tisza river will be slightly rising while stagnate downstream. Minor water level rise is expected along entire Sava River flow, whereas slight receding and stagnation will occur downstream. Stagnation is expected on Drina River.

During the second week (May 27th to June 2nd, 2013) in most part of SEE region below normal temperature, with anomaly from -1 ^{o} C up to -3 ^{o} C is expected. In central Turkey and south Caucasus average temperature is expected. Probability for these events is around 80%. Precipitation surplus is expected in most of SEE region, with probability around 60%. The water level of Danube River will hold steady and marginally rise. The water levels of rivers Tisza and Sava will be slightly rising and rising.

In the period from May 20th to June 16th, in western Balkans and southeastern Turkey, temperature below normal is expected, with anomaly up to -2 ^{o}C, while above normal temperature, with anomaly around +1 ^{o}C, is expected in part of central Turkey and coastal Greece. The probability is around 90%. Precipitation surplus is expected in most part of Balkans and southeastern Turkey. Probability for exceeding upper tercile is around 80%. Precipitation deficit is expected in southwestern Turkey and coastal Greece, with probability around 70%.

During the following three months (June, July, August) SEEVCCC seasonal forecast predicts above normal temperature, with anomaly from +1 ^{o}C up to +4 ^{o}C, in the Balkans. Temperature below normal, with anomaly around -3 ^{o}C, is expected in central part of Turkey. Precipitation deficit is expected in northern Serbia, coastal Croatia and Greece, western and southern Turkey. Surplus is expected in south and southwestern Serbia, central Romania, eastern FYR of Macedonia, south Bulgaria, north Greece, northern Turkey and south Caucasus.

Update

An updated statement will be issued on 27-05-2013.

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

ANNEX

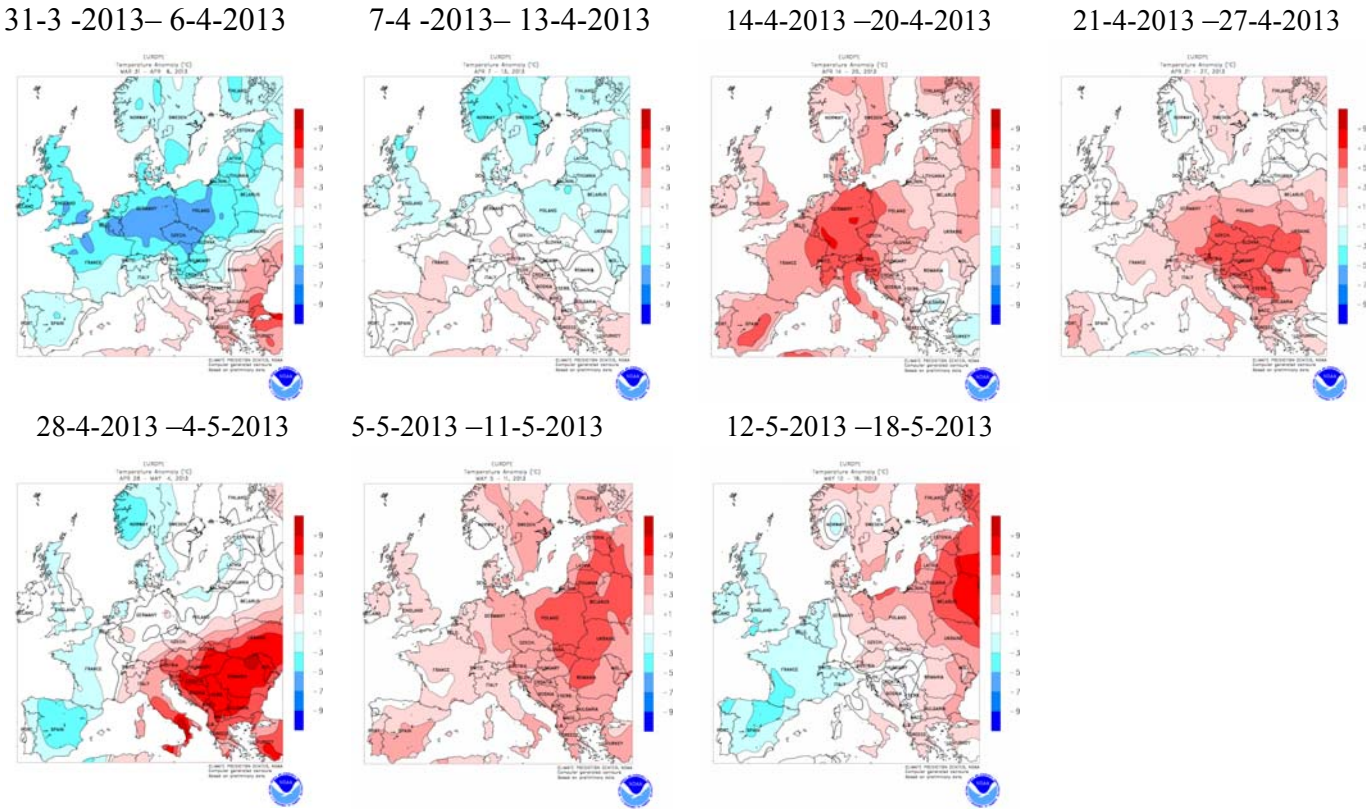

Figure 1. Temperature anomaly for recent weeks (source: Climate Predication Center, USA)

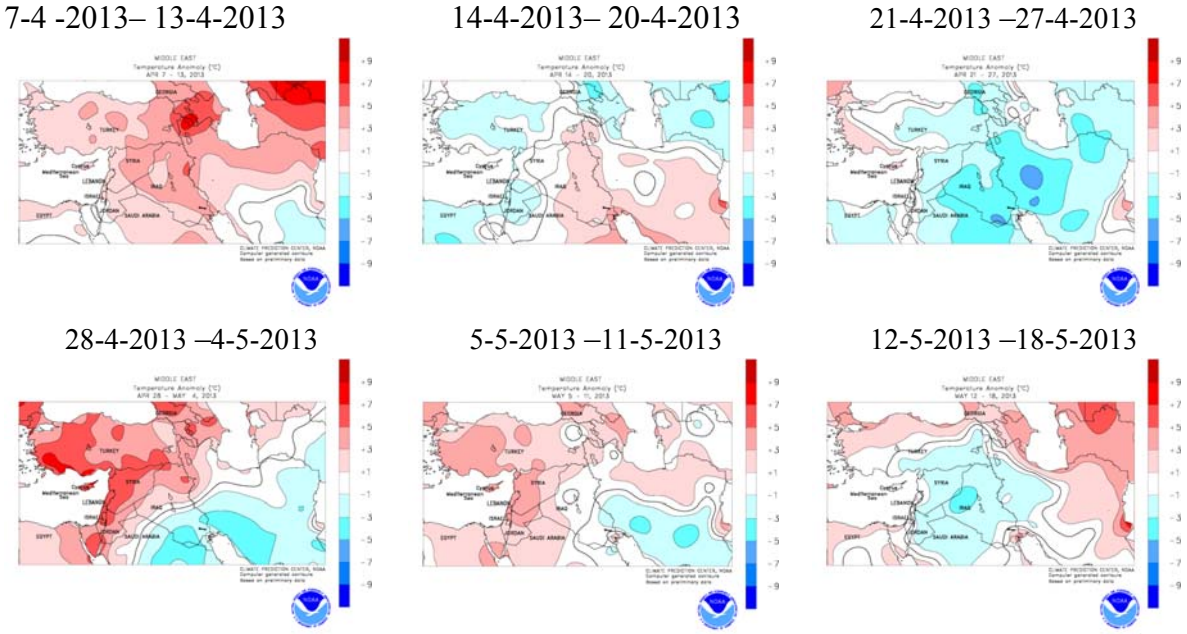

Figure2. Temperature anomaly for recent weeks for Middle East (source: Climate Predication Center, USA

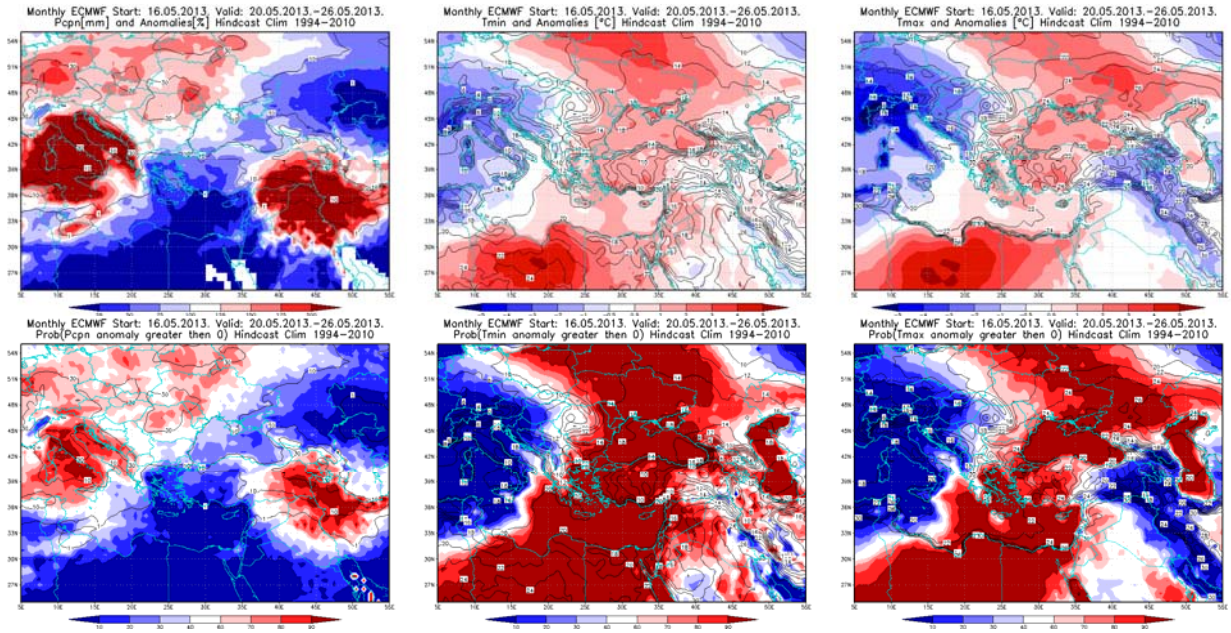

Figure 3. Outlook for the precipitation amount anomaly, minimum and maximum temperature anomalies (upper row), along with the probability of precipitation surplus and positive minimum and maximum temperature anomalies (lower row) for the 20 –26.05.2013 period

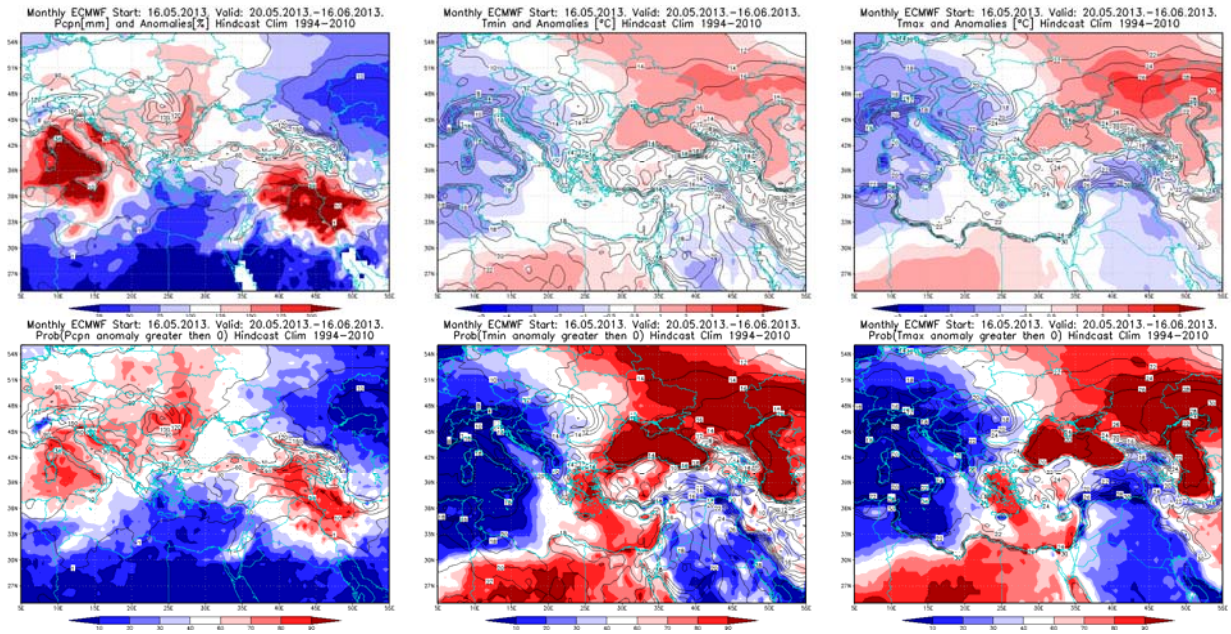

Figure 4. Outlook for the precipitation amount anomaly, minimum and maximum temperature anomalies (upper row), along with the probability of precipitation surplus and positive minimum and maximum temperature anomalies (lower row) for the 20.05– 16.06.2013 period

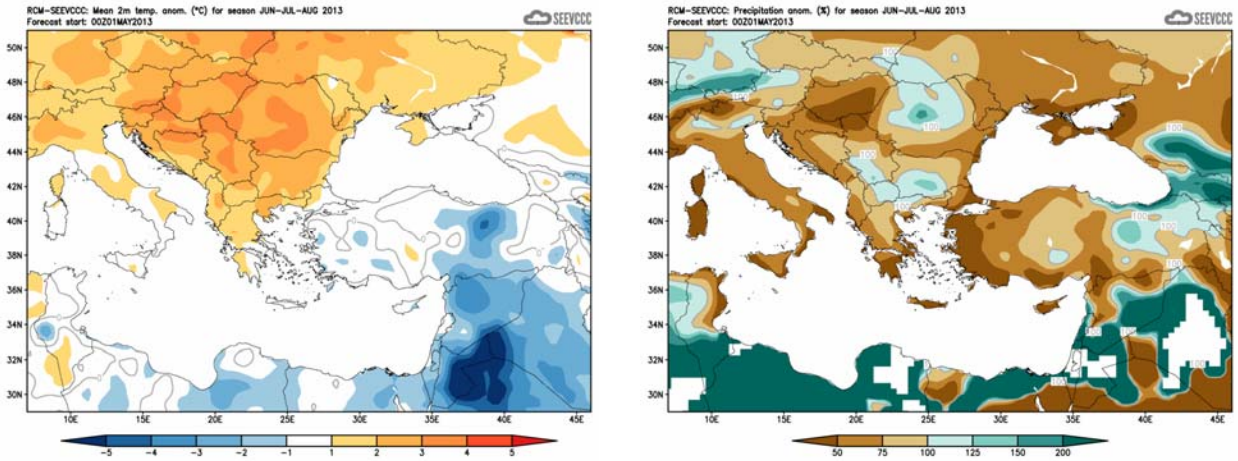

Figure 5. Mean seasonal temperature and precipitation anomaly for the season JJA (seasonal outlook for RCM – SEEVCCC)

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/)