Climate Watch (Serial No.: 20130701 – 00)

Initial/Updated/Final

Topic:		Warning:	0	No particular awareness
Organization issuing the statement:	SEEVCCC		1	Potentially dangerous
			2	Dangerous
Issued/ Amended / Cancelled	1-7-2013 12:00 P.M.		3	Very dangerous
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Valid from – to:	1-7-2013 – 14-7-2013	Next amendment: 8-7-2013		

Region of concern: South-Eastern Europe

„ ECMWF mounthly forecast predicts below normal temperature, with anomaly up to -3 ^{o}C, in most part of SEE region, while east Turkey is expected to experience temperature above normal, with anomaly up to +2 ^{o}C. The probability for exceeding lower/upper tercile is around 90%. Precipitation deficit is expected in northern Serbia, Croatia, western and southern Bosnia and Herzegovina, southern Montenegro, western and southern Romania, southern Bulgaria, central part of Greece and most part of Turkey. Probability for exceeding lower tercile is around 70%. With less confidence precipitation surplus is expected in north and westernmost of Turkey.

Monitoring

In the period from June 23rd to 29th, in Croatia, most part of Serbia and Bosnia and Herzegovina temperature below normal 1981-2010[1], with anomaly from -1 up to -3 ^{o}C, was recorded. In rest of SEE region, temperature above normal, with anomaly from +1 ^{o}C up to +5 ^{o}C, in central Turkey up to +7 ^{o}C, was observed. Precipitation up to 100 mm was recorded in most part of Romania and central part of Bulgaria. In most part of Bosnia and Herzegovina, northern part of Serbia and part of south Caucasus precipitation from 25 to 50 mm was registered. In rest of the region no significant precipitation was registered.

Water level rise characterized the upstream portion of Danube River, by the end of the period it was receding, while in the middle part of the river, increase was observed. Sava River water level marked minor receding. Tizsa River held steady.

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

Outlook

Within the first week (July 1st to 7th, 2013), ECMWF mounthly forecast predicts below normal temperature, with anomaly up to -3 °C, in most part of SEE region, while in east Turkey temperature above normal, with anomaly up to +2 °C is expected. The probability for exceeding lower/upper tercile is around 90%. Precipitation deficit is expected in northern Serbia, Croatia, western and southern Bosnia and Herzegovina, southern Montenegro, western and southern Romania, southern Bulgaria, central part of Greece and most part of Turkey. Probability for exceeding lower tercile is around 70%. With less confidence precipitation deficit is expected in north and westernmost of Turkey. Minor rise of water level will occur on the upstream part of Danube River by the end of the week, while water level drop is expected in the middle part of the river. Sava River will feature slight water level rise while stagnation is expected on Tisza River.

During the second week (July 8th to 14th, 2013) in Serbia, Romania, Bosnia and Herzegovina, Montenegro, FYR of Macedonia, most part of Bulgaria and in north Greece, temperature below normal, with anomaly up to -2 ° C, is expected. Temperature above normal, with anomaly +2 °C, is expected in most part of Turkey. Probability for exceeding lower/upper tercile is around 80%. Precipitation surplus is expected in north, east and central Serbia, part of southwest Romania and part of central Greece. Precipitation deficit is expected in east Romania, south Montenegro, west Albania, part of southwest Bulgaria and in Turkey. Probability for these events is around 60%. Water levels on Danube and Tisza will hold steady. Minor water level rise is expected on Sava River.

In the period from July 1st to 28th, below normal temperature, with anomaly up to -2 °C, is expected in most part of Balkans, while in most part of Turkey temperature above normal, with anomaly up to +2 °C is expected. The probability for exceeding lower/upper tercile is around 80%. Average precipitation is expected in the Balkans, while in most part of Turkey precipitation deficit is expected with probability for exceeding lower tercile around 70%.

During the following three months (July, August, September) SEEVCCC seasonal forecast predicts above normal temperature in most of Balkans, except Montenegro, northern, western and southern Albania, southern FYR of Macedonia and most part of Greece. Temperature below normal is expected in most part of Turkey and south Caucasus. Normal to dry weather conditions is expected in most of SEE region, except part of central Romania and south Caucasus and northernmost Turkey where precipitation surplus is expected.

Update

An updated statement will be issued on 8-7-2013.

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

ANNEX

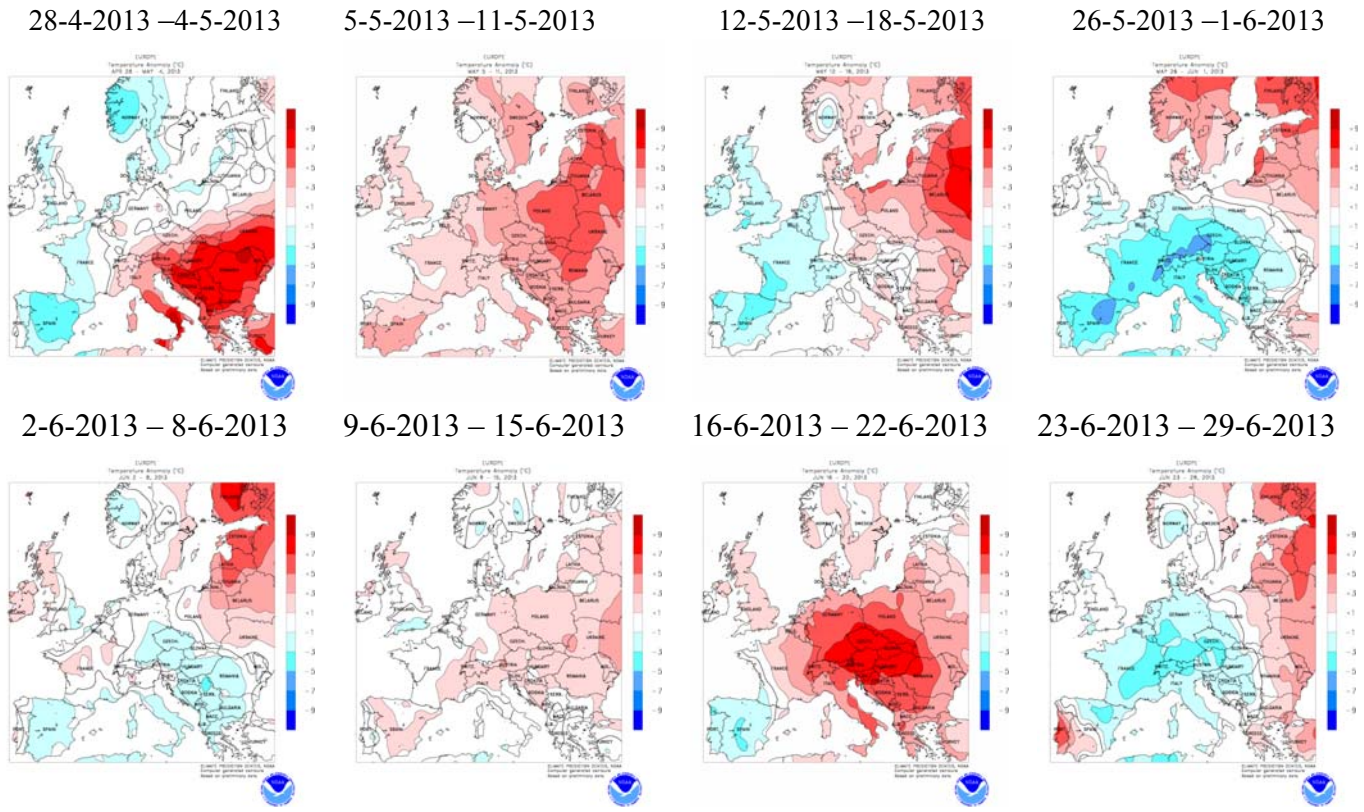

Figure 1. Temperature anomaly for recent weeks (source: Climate Predication Center, USA)

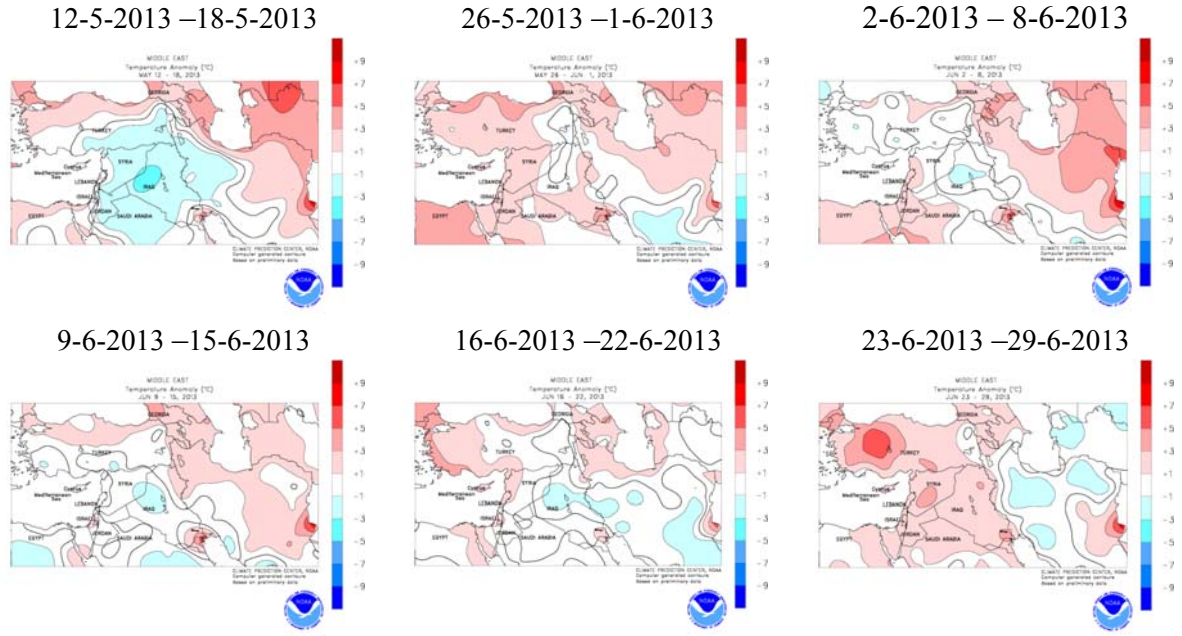

Figure2. Temperature anomaly for recent weeks for Middle East (source: Climate Predication Center, USA

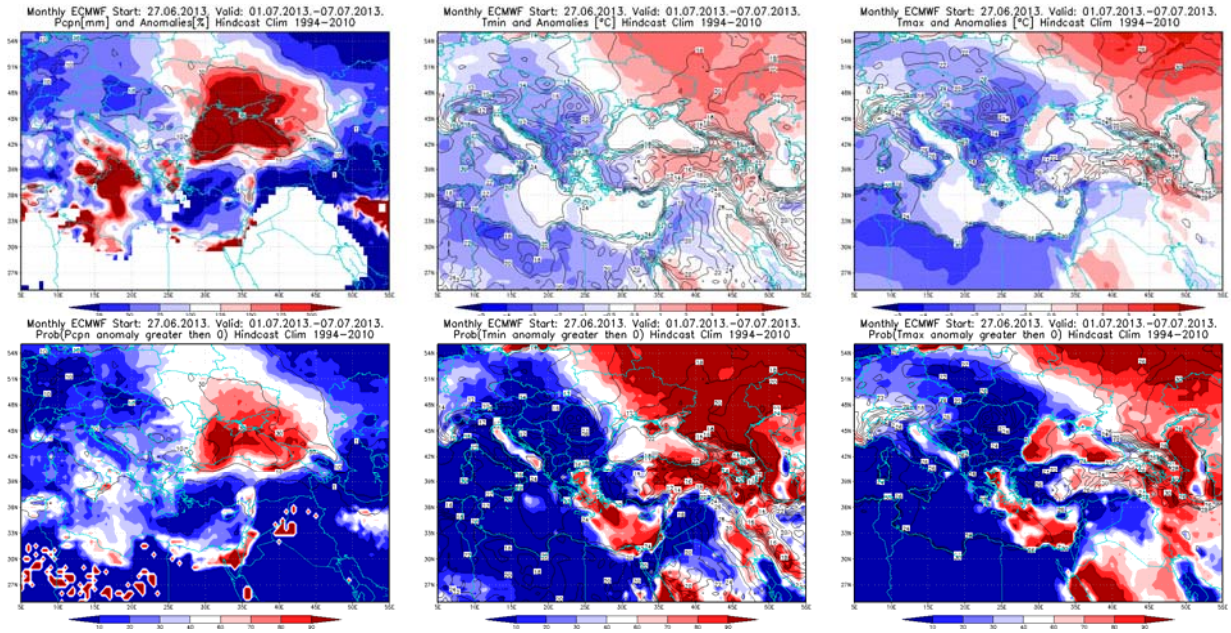

Figure 3. Outlook for the precipitation amount anomaly, minimum and maximum temperature anomalies (upper row), along with the probability of precipitation surplus and positive minimum and maximum temperature anomalies (lower row) for the 1 –7.7.2013 period

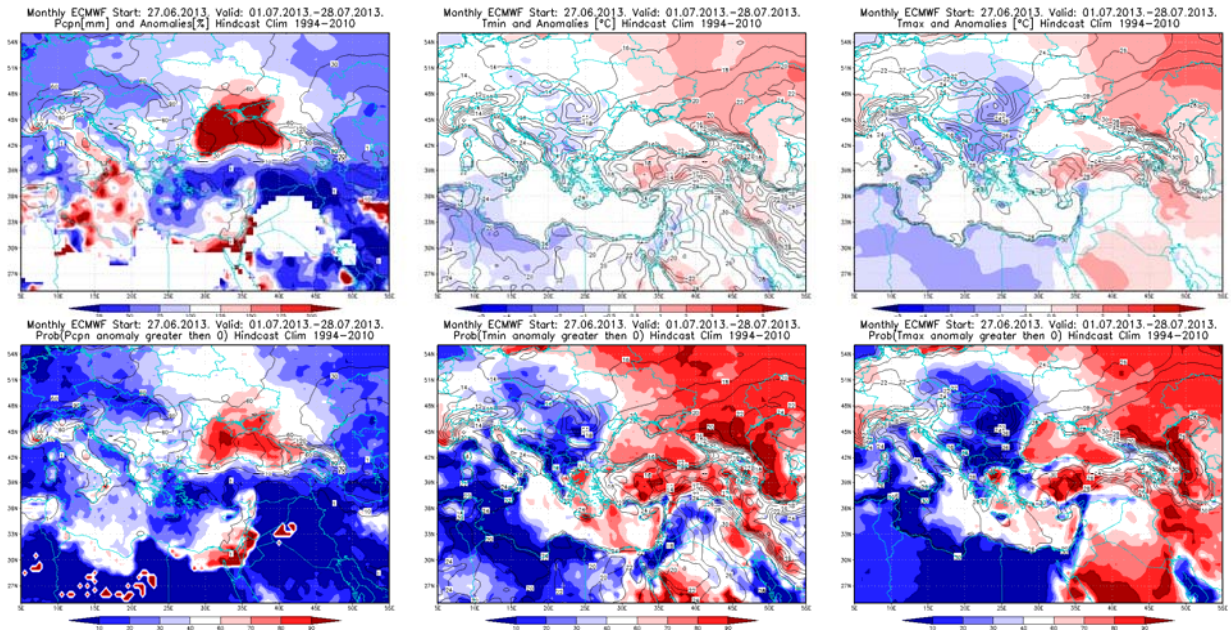

Figure 4. Outlook for the precipitation amount anomaly, minimum and maximum temperature anomalies (upper row), along with the probability of precipitation surplus and positive minimum and maximum temperature anomalies (lower row) for the 1– 28.7.2013 period

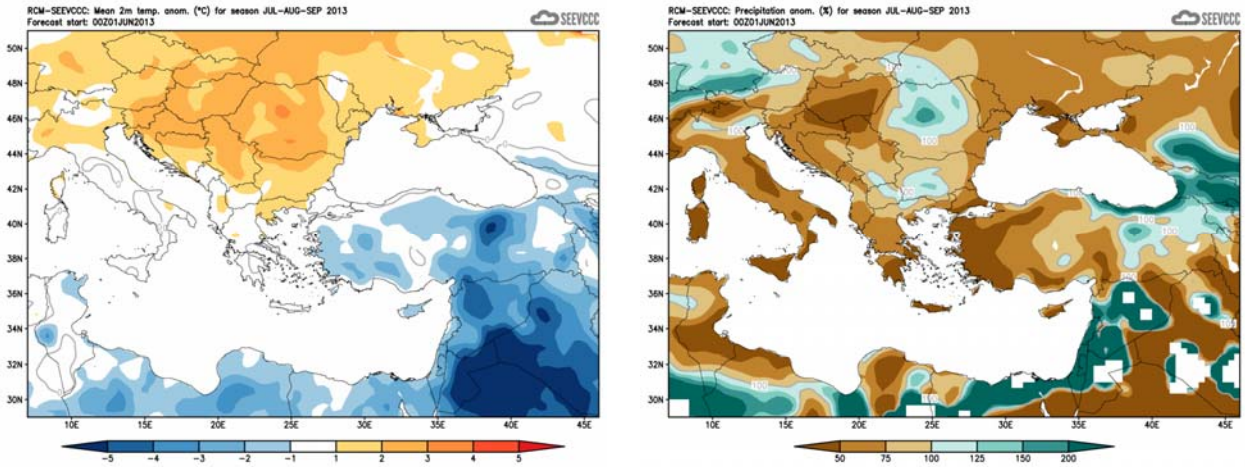

Figure 5. Mean seasonal temperature and precipitation anomaly for the season JAS (seasonal outlook for RCM – SEEVCCC)

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/)