Climate Watch (Serial No.: 20130527 – 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: 27-05-2013 12:00 P.M.		3	Very dangerous

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Valid from – to: 27-05-2013 – 09-06-2013 Next amendment: 03-06-2013

Region of concern: South-eastern Europe

„During next month (May 27th to June 23rd) over Balkans below normal temperature, with anomaly up to -2 °C is expected, while temperature above normal, with anomaly up to +2 °C, is expected in most of Turkey. Probability for exceeding lower/upper tercile is up to 80%. Precipitation surplus is expected in costal regions, Croatia, northern and part of eastern Serbia, while in rest of region normal to dry weather condition is expected. Probability is around 70%. Water level on the most upstream part of Danube River will hold steady, slightly recede in the middle part, whereas downstream decrease and minor decrease of water stage will occur. The upstream portion of Tisza River will feature water level rise while downstream, slight increase will occur. Water level rise is expected trough entire flow of Sava River. Moderate increase of water level will characterize Drina River ".

Monitoring

In the period from May 19th to 25th in Moldova, most of Romania, southeastern Serbia, Bulgaria, fYR of Macedonia, southern Albania, Greece, Turkey and south Caucasus temperature above normal 1981-2010[1], with anomaly from +1 °C up to +7 °C was recorded, while in Croatia and westernmost of Bosnia and Herzegovina temperature was below normal, with anomaly from -1 °C up to -3 °C. No significant precipitation was recorded in Turkey, south Caucasus and Greece, while in most of Balkans precipitation amount was up to 100 mm.

Water level on the most upstream portion of Danube River characterized slight decrease, whereas in the middle part decrease was observed. Entire flow of Tisza River held steady. Stagnation

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

marked the water level on the upstream part of Sava River, while in the middle part, receding and stagnation were followed by water level rise.

Outlook

Within the first week (May 27th to June 02nd, 2013), ECMWF mounthly forecast predicts below normal temperature, with anomaly from -1 °C up to -4 °C, over Balkans and in southeastern Turkey, with probability for exceeding lower tercile up to 90%. In central Turkey and southeastern Moldova above normal temperature, with anomaly from +1 °C up to +3 °C, is expected. The probability for this event is up to 90%. Precipitation surplus is expected along costal regions, Croatia, western Bosnia and Herzegovina and northern Serbia, while in rest of region deficit is expected. Probability is up to 80%. Water level on the most upstream part of Danube River will hold steady, slightly recede in the middle part, whereas downstream decrease and minor decrease of water stage will occur. The upstream portion of Tisza River will feature water level rise while downstream, slight increase will occur. Water level rise is expected trough entire flow of Sava River. Moderate increase of water level will characterize Drina River.

During the second week (June 03rd to 09th, 2013) over Balkans below normal temperature, with anomaly up to -2 ° C is expected. Probability for exceeding lower tercile is up to 80%. Temperature above normal, with anomaly up to +2 ° C, is expected in most of Turkey. Probability for this event is around 80%. With less confidence precipitation surplus is expected in Croatia, northern and western Bosnia and Herzegovina, northern and part of central Serbia, Moldova and eastern Romania, while in rest of region normal to dry weather condition is expected. Water level on the most upstream part of Danube River will hold steady, middle part will feature stagnation and minor stagnation, while downstream minor water level rise will occur. Water level on the upstream part of Tisza River will recede and slightly increase downstream. Along entire Sava River flow water level rise is expected. Moderate increase of water level is expected on Drina River.

In the period from May 27th to June 23rd, over Balkans below normal temperature, with anomaly up to -2 ° C is expected, while temperature above normal, with anomaly up to +2 ° C, is expected in most of Turkey. Probability for exceeding lower/upper tercile is up to 80%. Precipitation surplus is expected in costal regions, Croatia, northern and part of eastern Serbia, while in rest of region normal to dry weather condition is expected. Probability is around 70%.

During the following three months (June, July, August) SEEVCCC seasonal forecast predicts above normal temperature, with anomaly from +1 °C up to +4 °C, in the Balkans. Temperature below normal, with anomaly up to -3 °C, is expected in part of central of Turkey. Precipitation deficit is expected in most of region, except south Caucasus and northeastern most Turkey where precipitation deficit is expected.

Update

An updated statement will be issued on 03-06-2013.

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

ANNEX

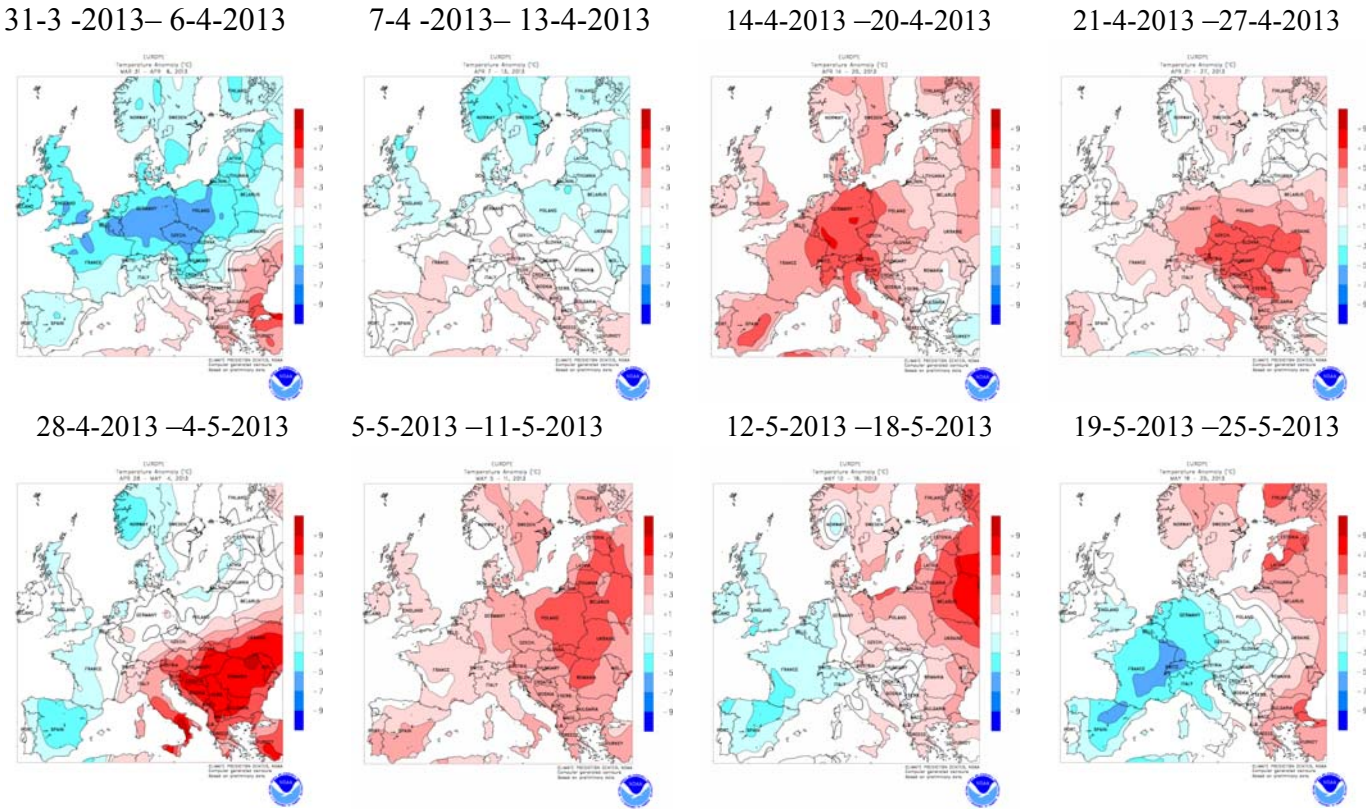

Figure 1. Temperature anomaly for recent weeks (source: Climate Predication Center, USA)

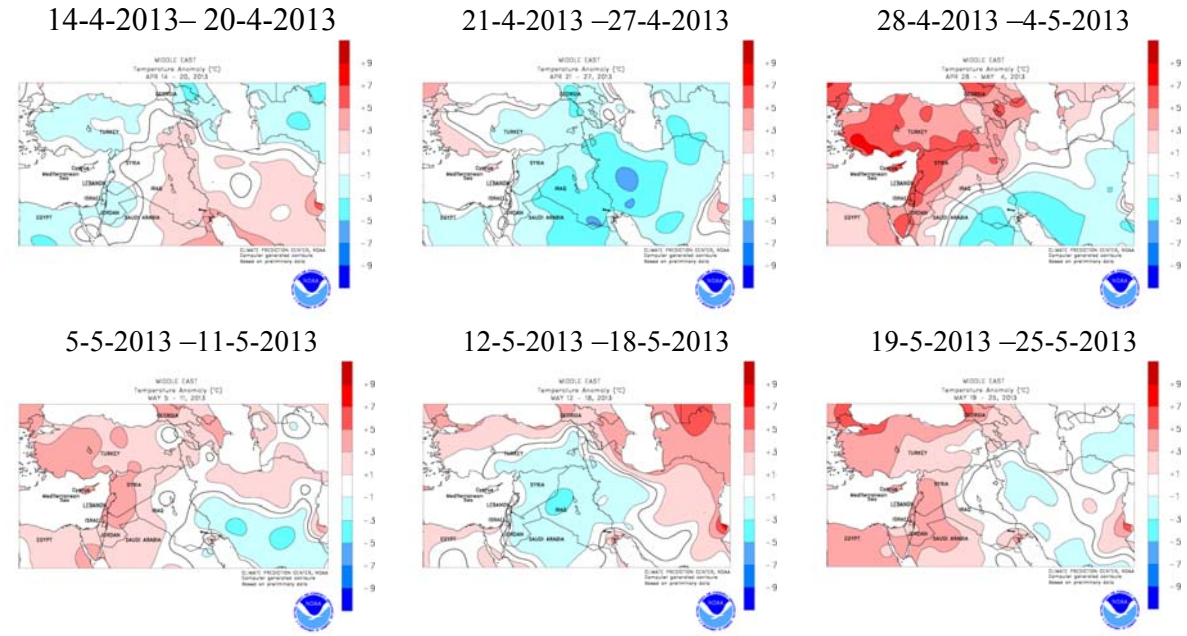

Figure2. Temperature anomaly for recent weeks for Middle East (source: Climate Predication Center, USA

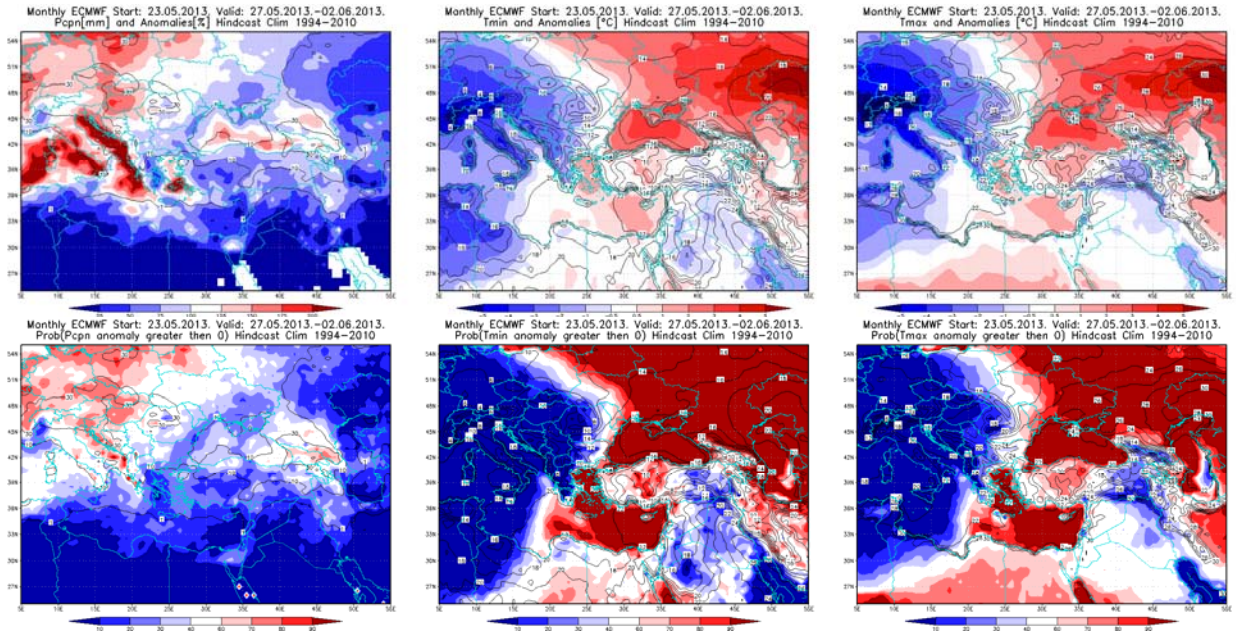

Figure 3. Outlook of the precipitation amount anomaly, minimum and maximum temperature anomalies (upper row), along with the probability of precipitation surplus and positive minimum and maximum temperature anomalies (lower row) for the 27.05 –02.06.2013 period

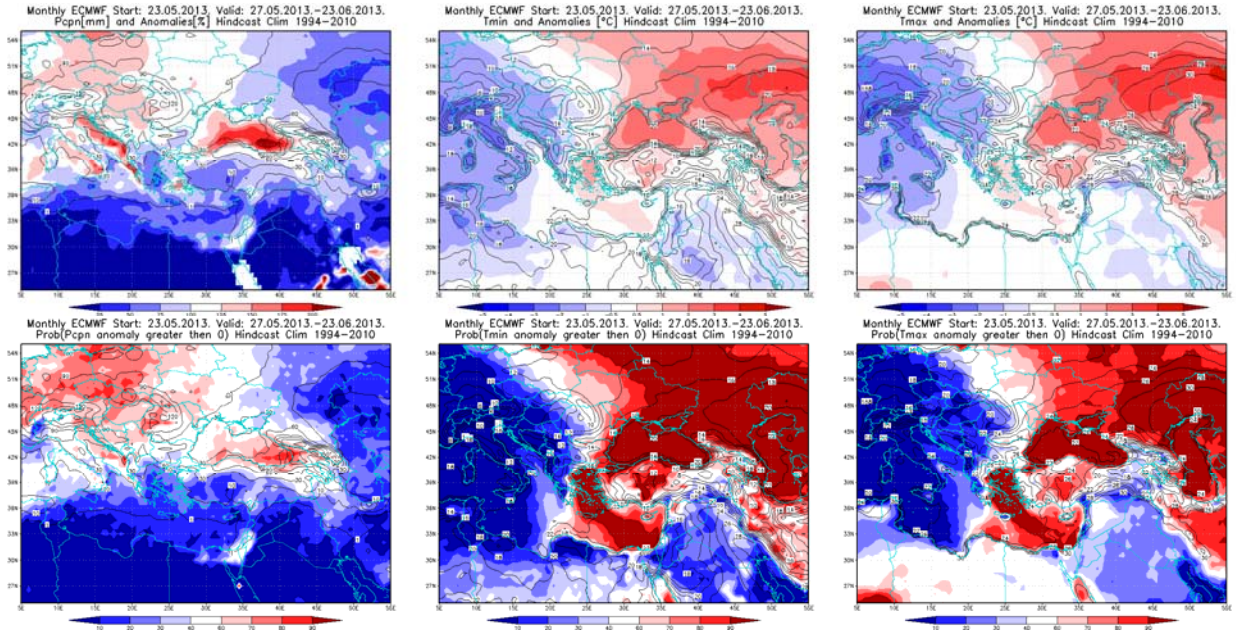

Figure 4. Outlook of the precipitation amount anomaly, minimum and maximum temperature anomalies (upper row), along with the probability of precipitation surplus and positive minimum and maximum temperature anomalies (lower row) for the 27.05– 23.06.2013 period

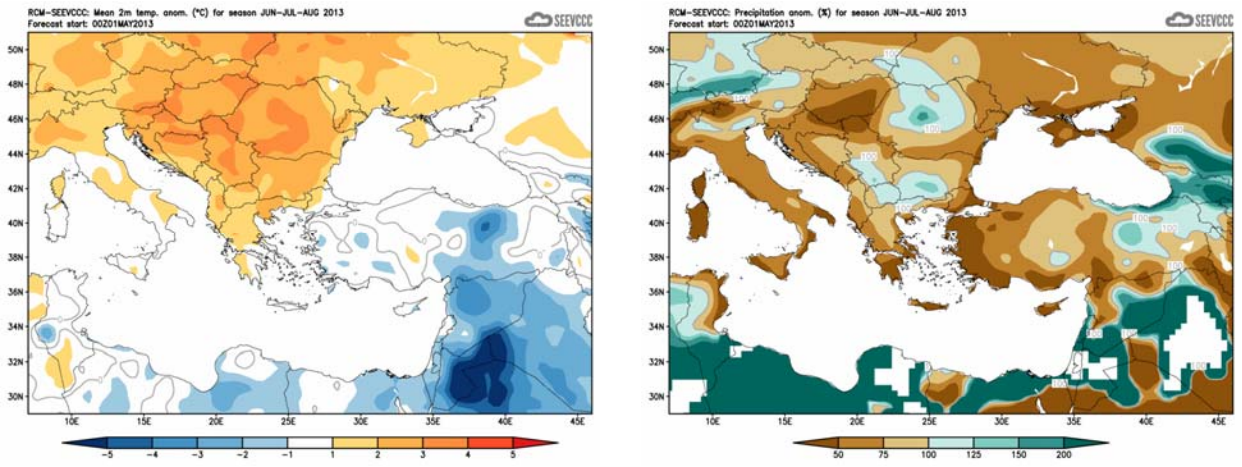

Figure 5. Mean seasonal temperature and precipitation anomaly for the season JJA (seasonal outlook of RCM – SEEVCCC)

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/)