

Climate Watch (Serial No.: 20130603 – 00)

Initial/Updated/Final

Topic:	Warning:	0	No particular awareness
Organization issuing the statement:	SEEVCCC	1	Potentially dangerous
		2	Dangerous
<u>Issued/ Amended / Cancelled</u>	3-6-2013 12:00 P.M.	3	Very dangerous
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Valid from – to:	3-6-2013 – 16-6-2013	Next amendment:	10-6-2013

Region of concern: South-Eastern Europe

„Below normal temperature, with anomaly from -1 °C up to -4 °C, is expected in most part of SEE region. Positive anomaly, around +1 °C is expected in central Turkey. The probability for these events is around 90%. Precipitation surplus is expected in east Romania, Moldova, east Bulgaria and westernmost of Turkey. Precipitation deficit is expected in Croatia, coastal part of Albania, south FYR of Macedonia, Greece as well as in most parts of Turkey. Probability for exceeding upper/lower tercile is around 80%. Significant water level rise is expected on the Danube River”

Monitoring

In the period from May 26th to June 1st, in most part of the Balkans, temperature below normal 1981-2010¹, with anomaly from -1 °C up to -5 °C was recorded. In Turkey and south Caucasus, above normal temperature, with anomaly from +1 °C up to +5 °C was observed. Over northern Serbia, Croatia, Bosnia and Herzegovina, Montenegro, Romania and northern Bulgaria, precipitation amount was up to 100 mm.

Danube River water level characterized minor rise and rise. Water level of Tisza River spanned from stagnation to moderate increase. Sava River water level held steady.

¹ Reference climatological period is the 1981-2010 period

Outlook

Within the first week (June 3rd to 9th, 2013), ECMWF monthly forecast predicts below normal temperature, with anomaly from -1 °C up to -4 °C, in most part of SEE region. Positive anomaly, around +1 °C is expected in central Turkey. The probability for these events is around 90%. Precipitation surplus is expected in east Romania, Moldova, east Bulgaria and westernmost of Turkey. Precipitation deficit is expected in Croatia, coastal part of Albania, south FYR of Macedonia, Greece and in most parts of Turkey. Probability for exceeding upper/lower tercile is around 80%. Entire Danube River flow will feature water level rise. Water level on the upstream portion of Tisza River will marginally recede, whereas stagnation will occur downstream. Water level rise is expected on Sava River, while stagnation will occur downstream. Moderate water level rise is expected on Drina River.

During the second week (June 10th to 16th, 2013) in most parts of SEE region below normal temperature, with anomaly from around -2 °C is expected. Positive anomaly, around +1 °C is expected in central part of Turkey. Probability for these events is around 80%. Precipitation surplus is expected in most parts of the Balkans, while deficit is expected in central part of Turkey. Probability is around 70%. The most upstream as well as middle portion of the Danube River flow will characterize minor rise and stagnation, while downstream, significant rise and rise will occur. Water level on the upstream part of Tisza River will increase while slightly increase downstream. Along Sava River flow water level rise is expected. Moderate increase of water level is expected on Drina River.

In the period from May 3rd to June 30th, in the Balkans, temperature below normal, with anomaly around -2 °C is expected, while above normal temperature, with anomaly around +2 °C, is expected in central Turkey. The probability is around 90%. Precipitation surplus is expected in northern, southeastern and central Serbia, in Romania and western Bulgaria. Probability for exceeding upper tercile is up to 80%. Precipitation deficit is expected in coastal Greece and most part of Turkey with probability around 80%.

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 around -3 °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.

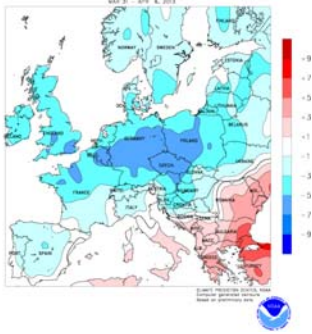
Update

An updated statement will be issued on 10-6-2013.

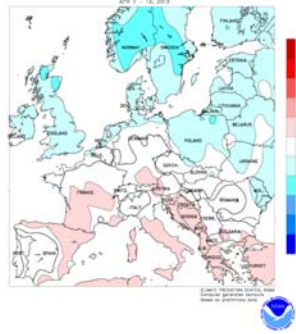
For further information please contact cws-seevccc@hidmet.gov.rs

ANNEX

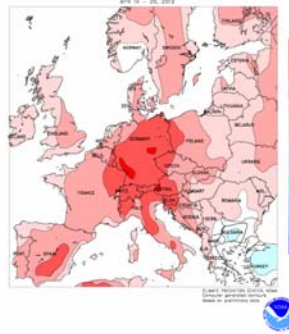
31-3 -2013– 6-4-2013



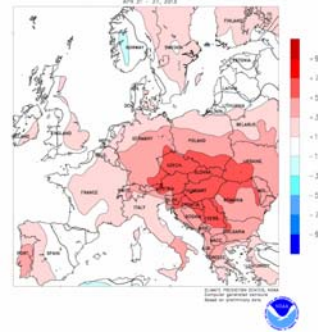
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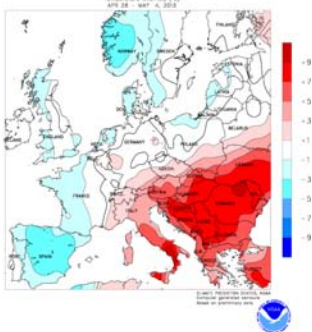
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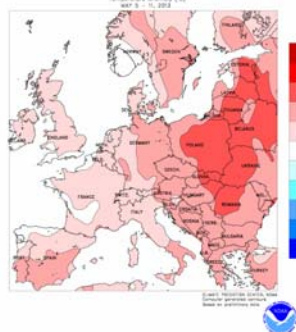
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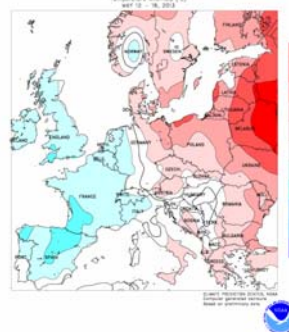
28-4-2013 –4-5-2013



5-5-2013 –11-5-2013



12-5-2013 –18-5-2013



26-5-2013 –1-6-2013

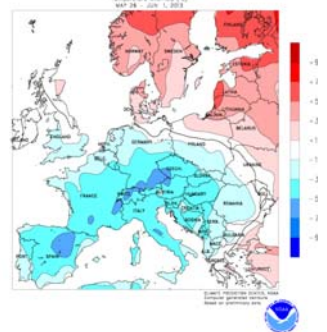
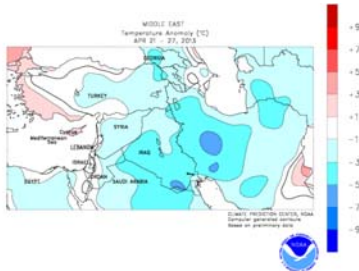
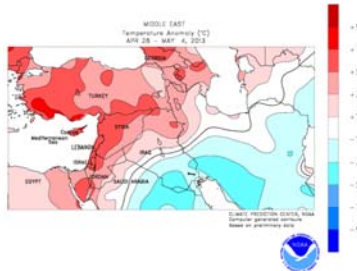


Figure 1. Temperature anomaly for recent weeks (source: Climate Prediction Center, USA)

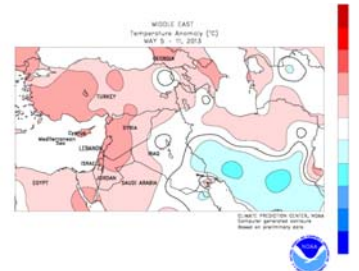
21-4-2013 –27-4-2013



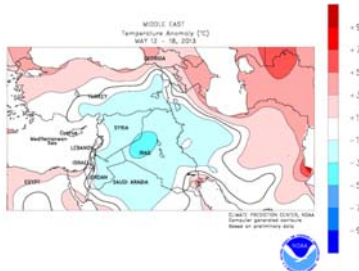
28-4-2013 –4-5-2013



5-5-2013 –11-5-2013



12-5-2013 –18-5-2013



26-5-2013 –1-6-2013

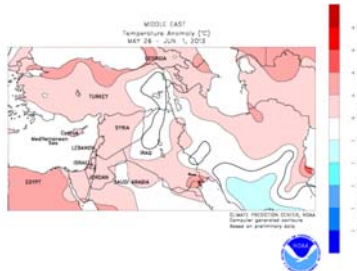


Figure2. Temperature anomaly for recent weeks for Middle East (source: Climate Prediction Center, USA)

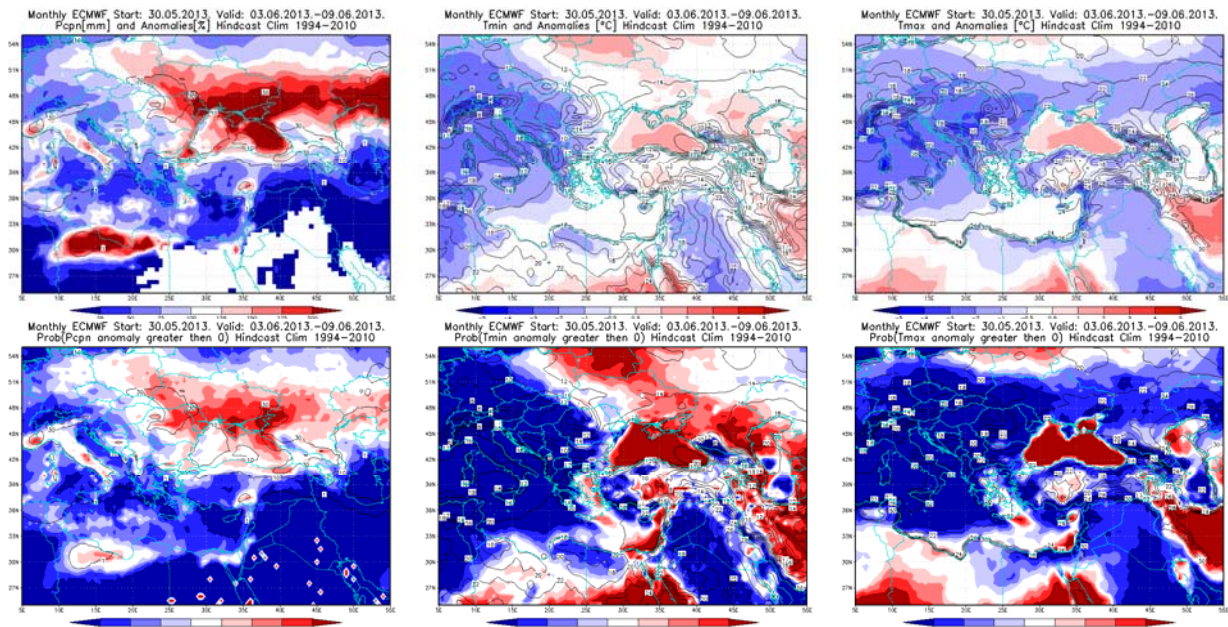


Figure 3. Outlook for the precipitation amount anomaly, minimum and maximum temperature anomalies (upper row), along with the probability of precipitation surplus and positive minimum and maximum temperature anomalies (lower row) for the 3–9.6.2013 period

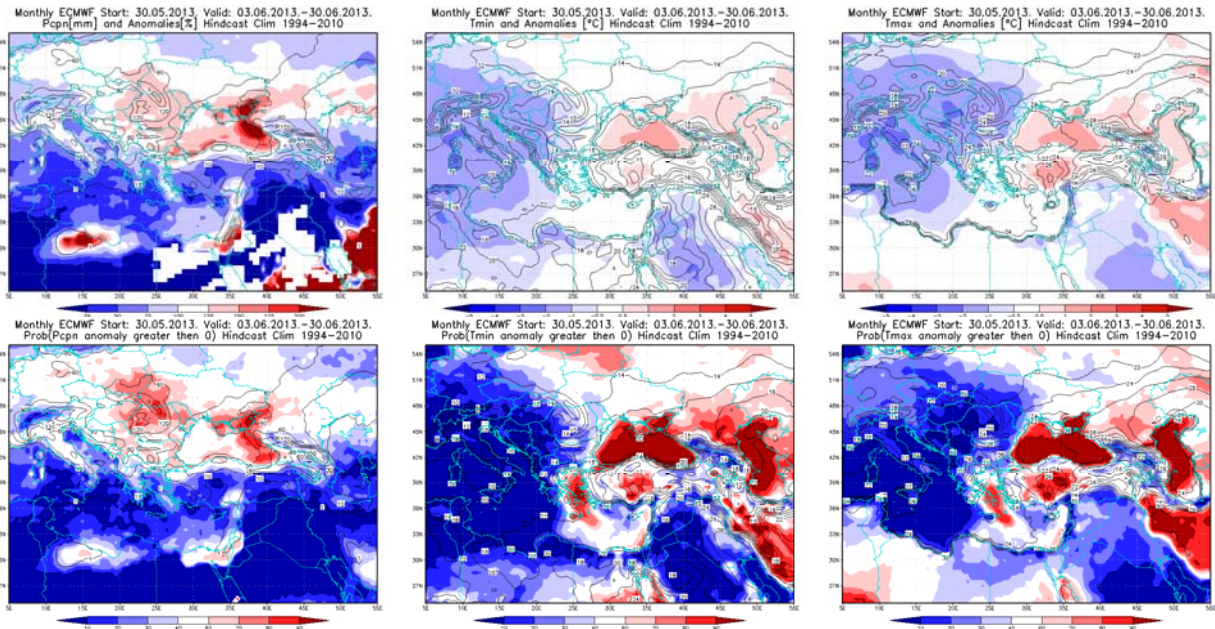


Figure 4. Outlook for the precipitation amount anomaly, minimum and maximum temperature anomalies (upper row), along with the probability of precipitation surplus and positive minimum and maximum temperature anomalies (lower row) for the 3.6–30.6.2013 period

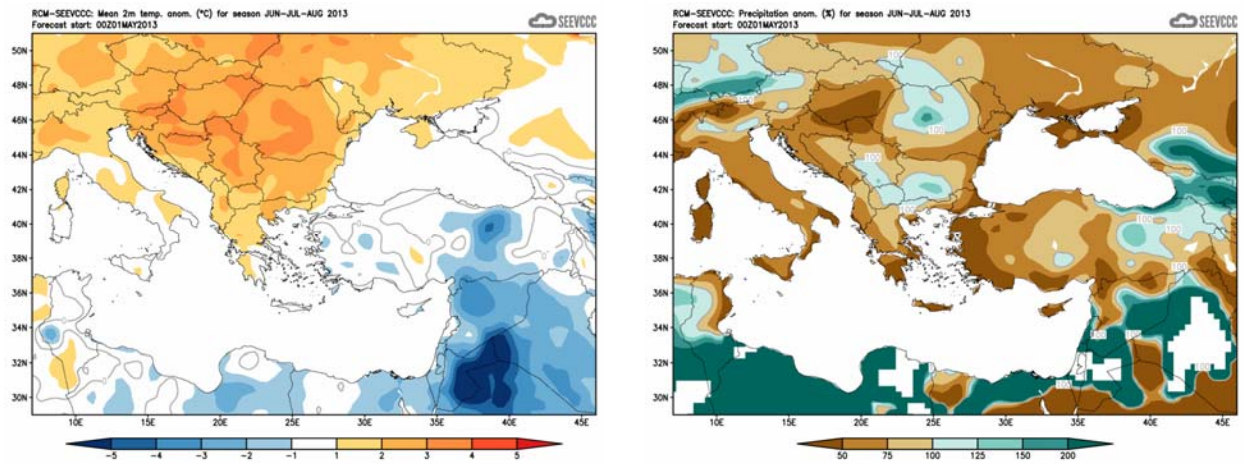


Figure 5. Mean seasonal temperature and precipitation anomaly for the season JJA (seasonal outlook for RCM – SEEVCCC)

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/>)