



CLIMATE OUTLOOK FOR 2019 SUMMER SEASON FOR SERBIA AND THE SEECOF REGION

April 24th, 2019

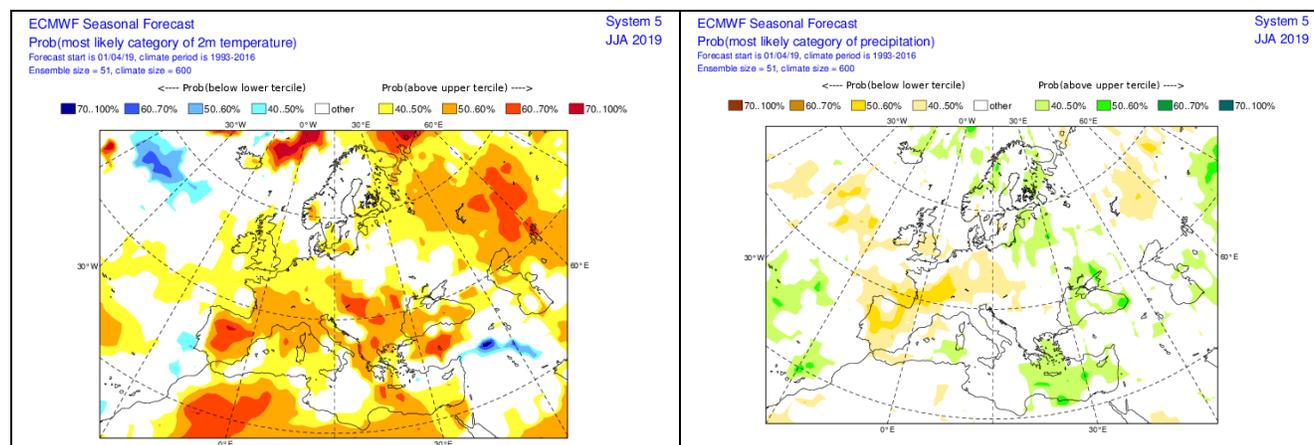
INTRODUCTION

NHMS of Serbia regularly prepares climate outlook for our country on the basis of the ECMWF seasonal forecast model outputs, **but also from the SEEVCCC regional climate model outputs**. In this paper we will extend the scope of our climate outlook and give climate outlook for summer season not only for Serbia, but also for the entire SEECOF region.

CLIMATE OUTLOOK FOR 2019 SUMMER SEASON BASED ON ECMWF SEASONAL FORECAST MODEL OUTPUTS FOR SERBIA AND THE SEE REGION (Hindcast period 1993-2016)

Summer temperature in northern and northeastern parts of Serbia is likely to be above-normal, while in the remainder of the country there are equal probabilities for –below, -near or –above normal summer temperatures.

In most of the country there are equal probabilities for -below, -near or –above normal summer precipitation, while in northern part of Serbia summer precipitations sums are likely to be below-normal. Consequently, northern part of Serbia will experience warmer and drier summer compared to the average conditions; eastern parts of Serbia will be warmer and normally dry, whereas in rest of the country, summer temperature and precipitation sums are forecast to be normal.



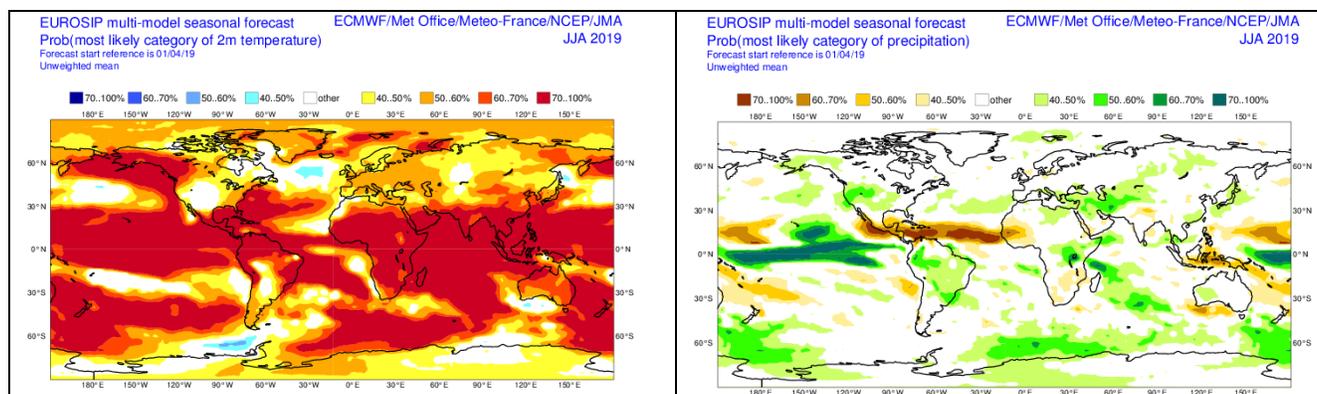
In most of the SEECOF region, summer temperature is likely to be above-normal. Contrastively, in northern and eastern parts of Ukraine, southwestern part of the Balkan Peninsula, along the eastern coasts of the Aegean Sea, on the south and south-east of Turkey, south and south-east of the Caucasus region, as well as in Israel, Jordan and Lebanon there are equal probabilities for below-, near- or above-normal conditions.



Summer precipitation is likely to be below-normal in the Pannonia Plain and northwestern slopes of the Carpathian region, while in most of the SEECOF region, there is no predictive signal for summer precipitation. Contrastively, along the coasts of the Aegean, eastern and southern coasts of the Black Sea, as well as in Eastern Mediterranean summer precipitation is likely to be above-normal.

CLIMATE OUTLOOK FOR 2019 SUMMER SEASON BASED ON EUROSIP SEASONAL FORECAST MODEL OUTPUTS FOR SERBIA AND THE SEE REGION (Hindcast period 1993-2016)

Summer temperature in Serbia is likely to be above-normal. In most of the country, there is no signal for summer precipitation, while below-normal conditions are expected in northern and western parts of the country. Consequently, northern and western parts of Serbia will observe a warmer and drier summer compared to the average, while in rest of the country summer is predicted to be warmer.



In the entire SEECOF region, summer temperature is likely to be above-normal, with the probability increasing from the northern and northwestern to the eastern and southeastern parts of the region. In Turkey, most of the Caucasus region, along the coasts of the Aegean, northern, south and southeastern coasts of the Black Sea, Central and Eastern Mediterranean, as well as in Israel, Lebanon and Jordan summer precipitation is likely to be above-normal, while in rest of the SEECOF region there is no predictive signal.

CLIMATE OUTLOOK FOR 2019 SUMMER SEASON BASED ON RCM-SEEVCCC SEASONAL FORECAST MODEL OUTPUTS FOR SERBIA AND THE SEE REGION

In summer 2019, positive temperature anomalies are expected in entire Serbia. In most of the country, summer precipitation sums will be below-normal with the exception of mountainous region in southwest and central part of Serbia with precipitation totals near-normal.

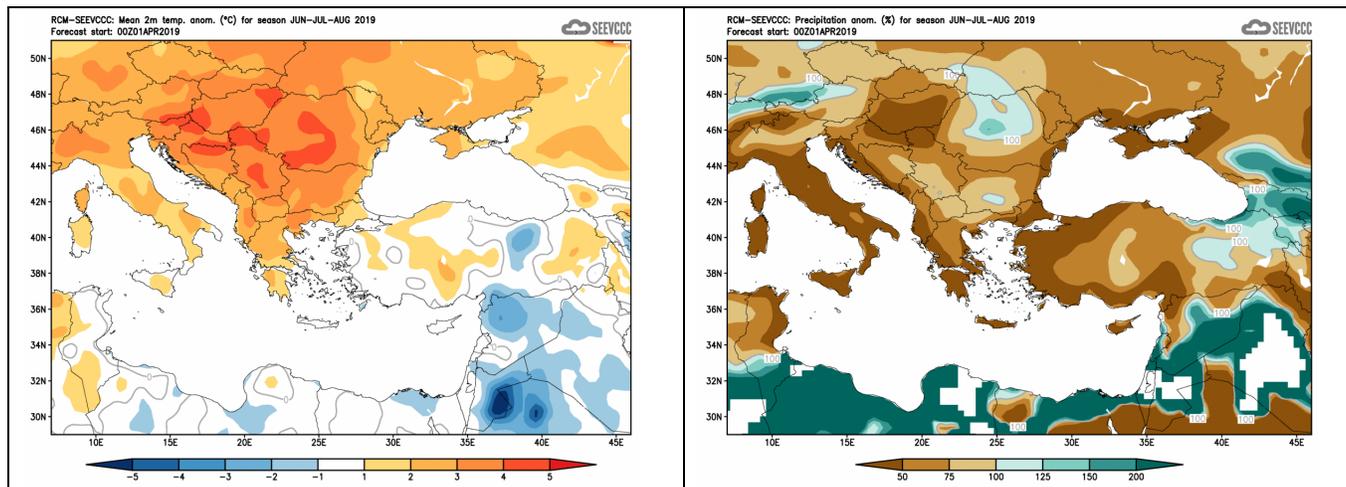


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In Ukraine, Balkan Peninsula, along the coasts of the Adriatic, Ionian, Aegean Sea, some parts of Turkey, summer temperature is likely to be above-normal, while normal conditions are expected in the South Caucasus region, Eastern Mediterranean Sea and most of Turkey. Contrastively, below-normal summer temperature is predicted for Jordan and mountainous part of Israel.

Summer precipitation is likely to be below-normal in Ukraine, Pannonia plain, western and southern part of the Balkan Peninsula, along the coasts and the hinterland of the Adriatic, Ionian, Aegean, southwestern, western and northern parts of the Black Sea, northern coasts of the East Mediterranean, Cyprus, as well as in the interior regions of the Israel, Lebanon and Jordan. Convective activity may affect above normal summer precipitation in the mountainous region of the Carpathian and South Caucasian region, as well as along the southeast coasts of the Black Sea, while in the remainder of the country as well as SEEECOF region it will be below or within normal values.

SUGGESTED NHMS SERBIA - CLIMATE OUTLOOK FOR 2019 SUMMER SEASON FOR SERBIA AND THE SEE REGION

Summer temperature in Serbia is likely to be above-normal. In northern parts of Serbia, below-normal or near-normal summer precipitation sums are predicted, while in most of Serbia there is no predictive signal. Consequently, most of Serbia will experience a warmer conditions, while northern parts will have warmer and drier summer compared to the average.

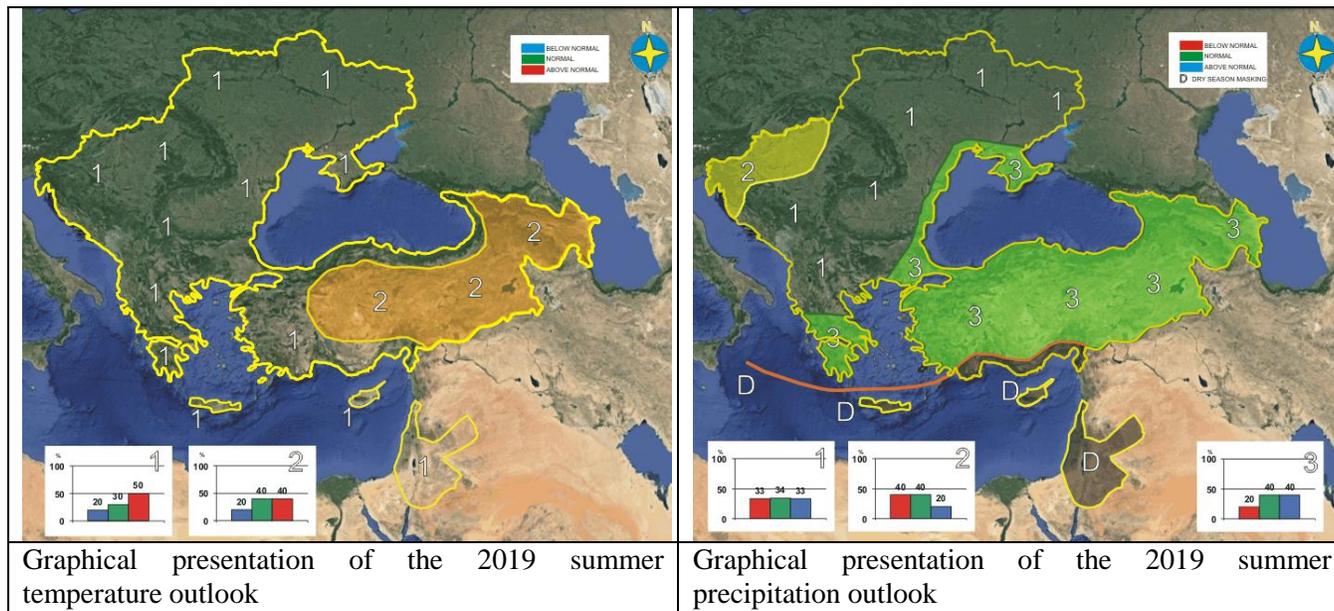


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In the entire SEECOF region, summer temperature is likely to be above-normal with the probability decreasing from the northern-northwestern to the eastern and southern part of the region.

Uncertainties in regional predictions are higher for precipitation than for temperature. The uncertainty is high for most of the SEECOF region - probabilities for below-, near- or above- average conditions are approximately equal. The Pannonia Plain, Northwestern parts of Balkan Peninsula are likely to experience precipitation deficit. On the other hand, coasts of the Aegean and Black Sea, as well as the southern parts of Greece, South Caucasus region and most of the Turkey will receive above, near- or above-normal summer precipitation sums. It should be noted that certain parts of the country, particularly mountain regions might receive near- or above- normal summer precipitation totals due to the episodes of enhanced convection accompanied by heavy precipitation. Due to dry season masking, it is not possible to forecast summer precipitation totals along the eastern coasts of Eastern Mediterranean, Crete, Israel and Jordan.