



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

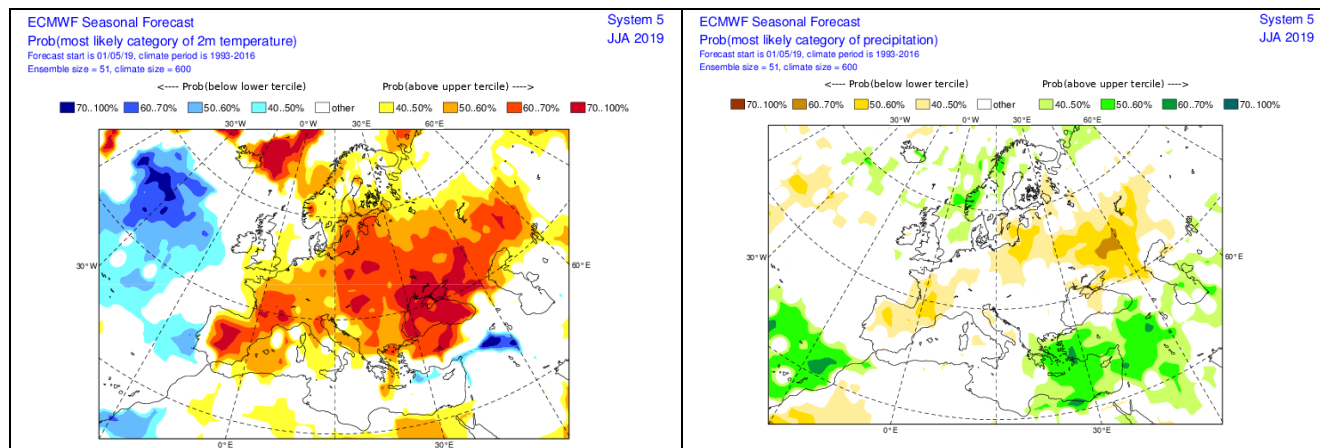
May 22<sup>nd</sup>, 2019

### INTRODUCTION

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

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

In whole Serbia summer temperature is likely to be above-normal, while there are equal probabilities for below-, near- or above- normal summer precipitation. Consequently, the whole country will experience warmer and normally dry summer, compared to the average conditions.



In most of the SEECOF region, summer temperature is likely to be above-normal. Contrastively, summer temperature along the northern and eastern coasts of the Mediterranean Sea is predicted to be below-normal. On the other hand, in the west and in the southern parts of the Balkan Peninsula, along the eastern coasts of the Aegean Sea, in the south and south-east of Turkey, in the Caucasus region, as well as in the Eastern Mediterranean, 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 south and east of Ukraine, while in most of the SEECOF region, there is no predictive signal for summer precipitation. Contrastively, in the southern parts of the Balkan Peninsula, along the coasts of the Aegean Sea, southeastern coasts of the



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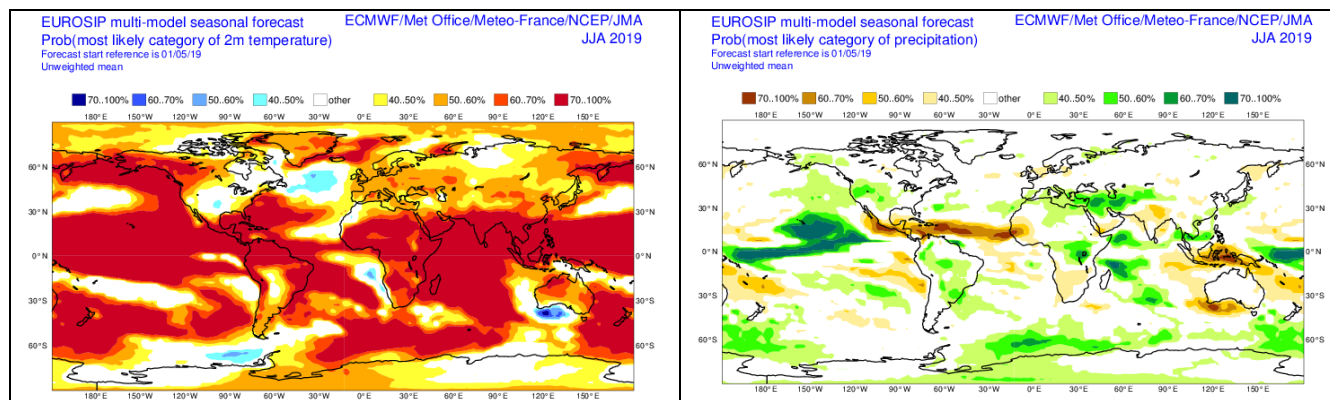
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Black Sea, Turkey, Aegean and Mediterranean Seas, as well as in Israel, Jordan and Lebanon, summer precipitation is likely to be above-normal.

### CLIMATE OUTLOOK FOR 2019 SUMMER SEASON BASED ON THE 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, with equal probabilities for below-, near- or above- normal summer precipitation. Consequently, the whole country will observe a warmer summer compared to the average.



In the entire SEECOF region, summer temperature is likely to be above-normal, with the probability decreasing from the northern and northwestern to the eastern and southeastern parts of the region. In the southeast of Turkey, there are equal probabilities for below-, near- or above-normal summer temperature conditions. In Turkey, most of the Caucasus region, along the coasts of the Ionian and Aegean Sea, South Adriatic, southeastern coast 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 THE 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 the mountainous region in the southwest and central part of Serbia with near-normal precipitation totals.

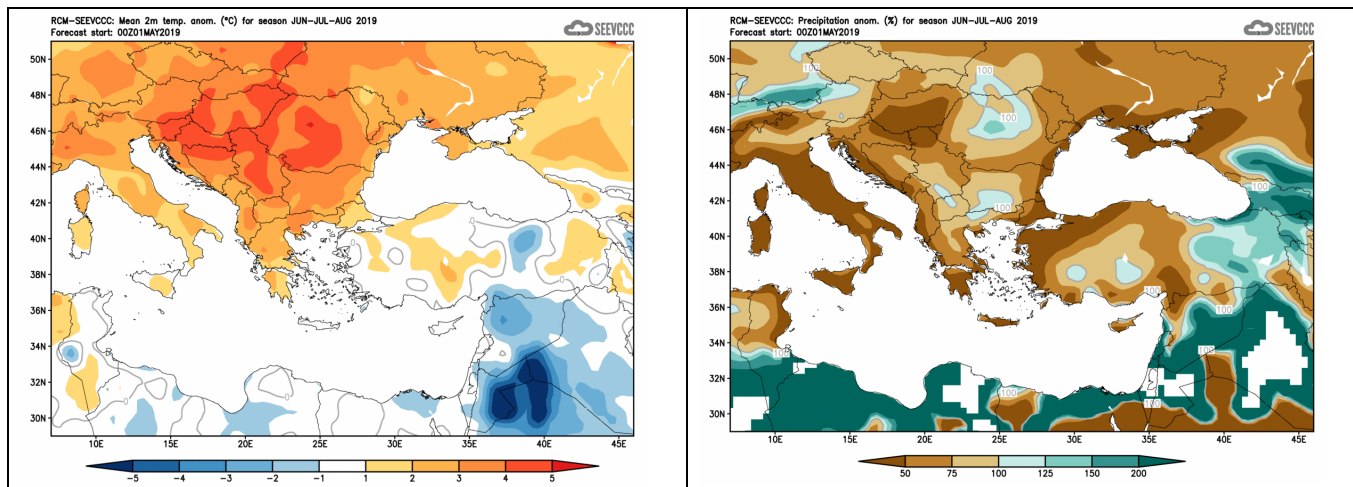


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In Ukraine, the Balkan Peninsula, along the coasts of the Adriatic, Ionian and Aegean Sea, in some parts of eastern Turkey, as well as in most of the Caucasus region, summer temperature is likely to be above-normal, while normal conditions are expected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

Summer precipitation is likely to be below-normal in Ukraine, the Pannonia Plain, the western and southern parts of the Balkan Peninsula, along the coasts and hinterland of the Adriatic, Ionian, and Aegean Sea, in the southwestern, western and northern parts of the Black Sea, northern coasts of the East Mediterranean and Cyprus, as well as in the interior regions of 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 southeastern coasts of the Black Sea, while in the remainder of the country and the SEECOF region, it will be below or within normal values.

### NHMS OF SERBIA – SUGGESTED CLIMATE OUTLOOK FOR 2019 SUMMER SEASON FOR SERBIA AND THE SEE REGION

Summer temperature in Serbia is likely to be above-normal. In the 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 warmer conditions, while the northern parts will have warmer and drier summer compared to the average.

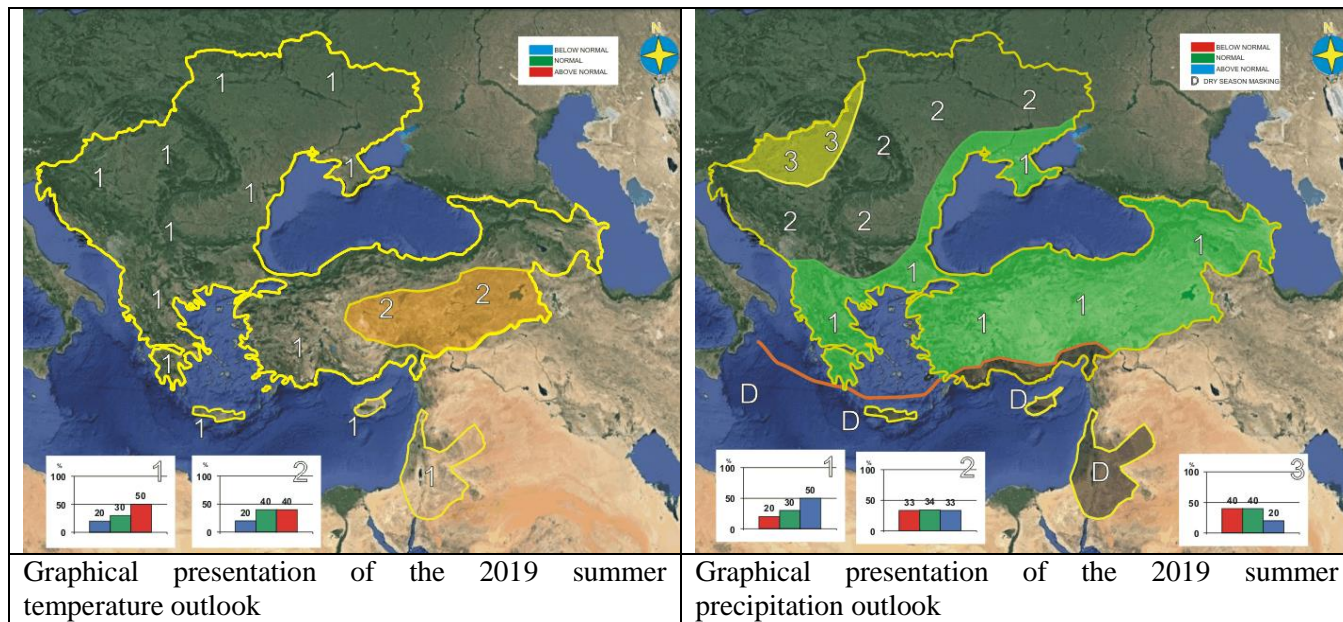


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In the entire SEECOF region, summer temperature is likely to be above-normal, with the probability decreasing from the northern-northwestern to the southeastern part of the region.

Uncertainties in regional predictions are higher for precipitation than for temperature. The uncertainty for the summer precipitation sums is high for the most of the SEECOF region – probabilities for below-, near- or above- average conditions are approximately equal. The Pannonia Plain and the northwestern slopes of the Carpathian region are likely to experience a precipitation deficit. On the other hand, the coasts of the Aegean and Black Sea, as well as the Southern Balkans, South Caucasus region and most of Turkey will receive above normal summer precipitation sums. It should be noted that certain parts of the Western, Central and Eastern Balkans, 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 the Eastern Mediterranean, Crete, Israel and Jordan.