



## CLIMATE OUTLOOK FOR THE 2020 SUMMER SEASON FOR SERBIA AND THE SEECOF REGION

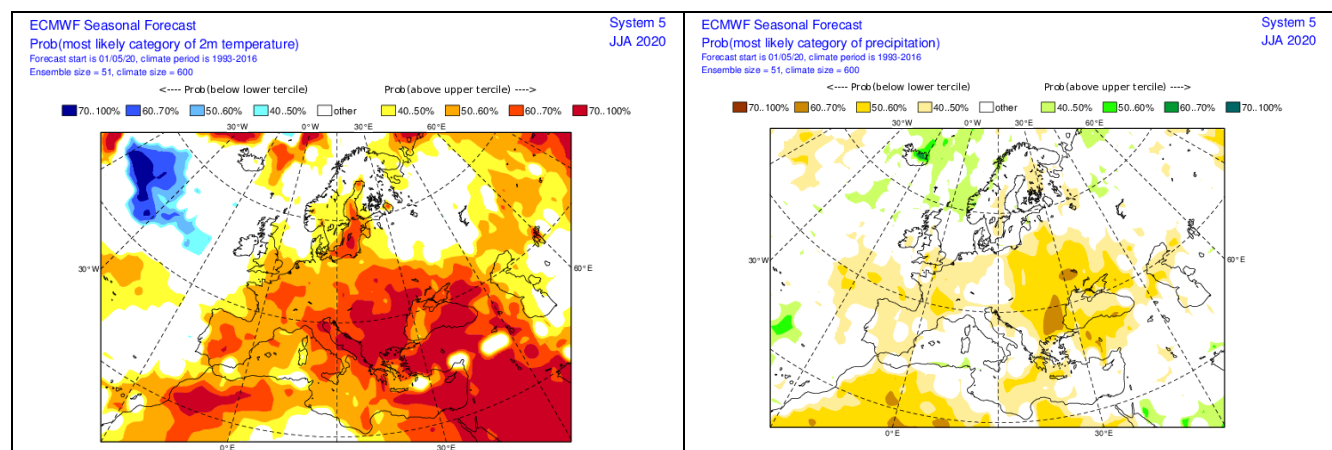
May 21<sup>st</sup>, 2020

### INTRODUCTION

NHMS of Serbia regularly prepares climate outlook for our country based both the ECMWF seasonal forecast model outputs, **and the SEEVCCC regional climate model outputs**. This paper provides an extended climate outlook for summer season referring not only to Serbia, but the entire SEECOF region as well.

### CLIMATE OUTLOOK FOR THE 2020 SUMMER SEASON BASED ON ECMWF SEASONAL FORECAST MODEL OUTPUTS FOR SERBIA AND THE SEE REGION (Hindcast period 1993-2016)

Entire Serbia is likely to experience above-normal summer temperature. In most of the country summer precipitations sums are likely to be below-normal, while there are equal probabilities for -below, -near or -above normal summer precipitation in south-western part of Serbia. Consequently, southwestern parts of Serbia will experience warmer and averagely dry conditions, while the most parts of Serbia will experience warmer and drier summer compared to the average conditions.



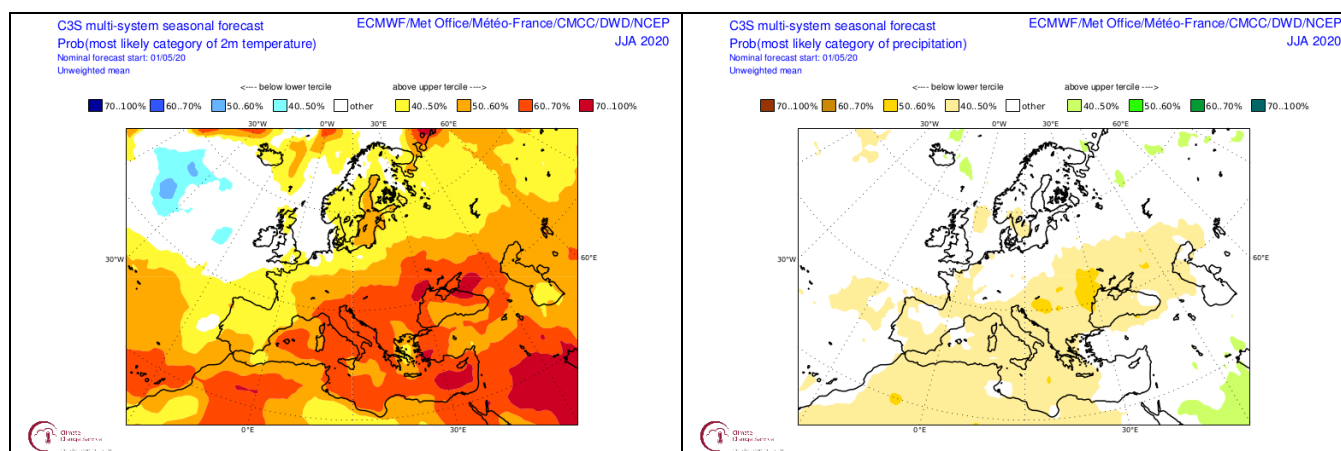
In most of the SEECOF region, summer temperature is likely to be above-normal, with the probability increasing from the northern to the southern and southeastern parts of the region. Contrastively, in southeastern parts of Turkey, southern part of the Aegean Sea there are equal probabilities for below-, near- or above- normal conditions.

Summer precipitation is likely to be below-normal in most of the SEECOF region, while in South Caucasus region, along the coasts of the Ionian and Eastern Mediterranean Sea with belonging coasts, on the South of the Balkan Peninsula, Israel, Syria and Lebanon, there is no predictive signal for summer precipitation.



## CLIMATE OUTLOOK FOR THE 2020 SUMMER SEASON BASED ON COPERNICUS 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 below-normal conditions for summer precipitation. Consequently, the whole Serbia will observe a warmer and drier summer compared to the average.



In the entire SEECOF region, summer temperature is likely to be above-normal, with the probability increasing from the eastern to the northern, western and southwestern parts of the region. In continental parts of Turkey, Eastern Mediterranean with belonging coasts and hinterland is no predictive signal for summer precipitation, while in rest of the SEECOF region there is likely to be below-normal.

## CLIMATE OUTLOOK FOR THE 2020 SUMMER SEASON BASED ON RCM-SEEVCC SEASONAL FORECAST MODEL OUTPUTS FOR SERBIA AND THE SEE REGION

In summer 2020, 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 southwestern and central part of Serbia with precipitation totals near-normal.

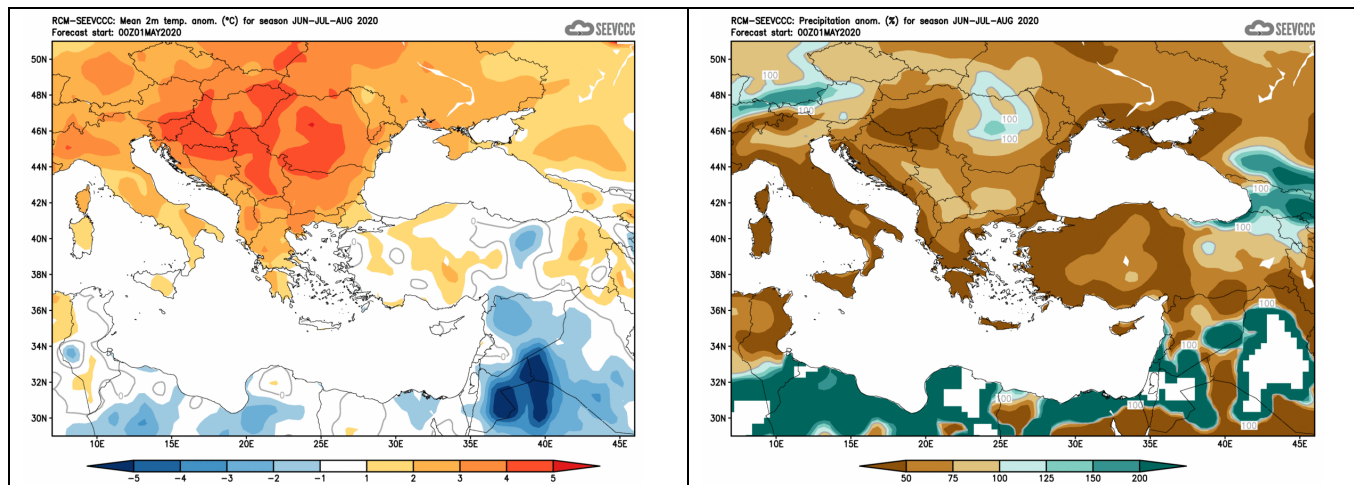


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In the most of the SEECOF region summer temperature is likely to be above-normal, while normal conditions are expected in the mountainous region of the South Caucasus region, most of the Turkey, Eastern and Central Mediterranean with belonging coasts and Israel. Contrastively, below-normal summer temperature is predicted for Jordan and in some parts of the mountainous region of the northeast Turkey.

Summer precipitation is likely to be below-normal in most of the SEECOF region, while in the Carpathian and mountainous region of the Central Balkans, as well as in eastern Turkey it will be within normal values. Convective activity may affect above normal summer precipitation in the South Caucasus region, eastern and southeastern coasts of the Black Sea, mountainous region of the Lebanon, Israel and Jordan.

### **SUGGESTED NHMS SERBIA - CLIMATE OUTLOOK FOR THE 2020 SUMMER SEASON FOR SERBIA AND THE SEE REGION**

Summer temperature in Serbia is likely to be above-normal with summer precipitation sums below normal. Consequently, the whole Serbia will experience a warmer and drier conditions compared to the average.

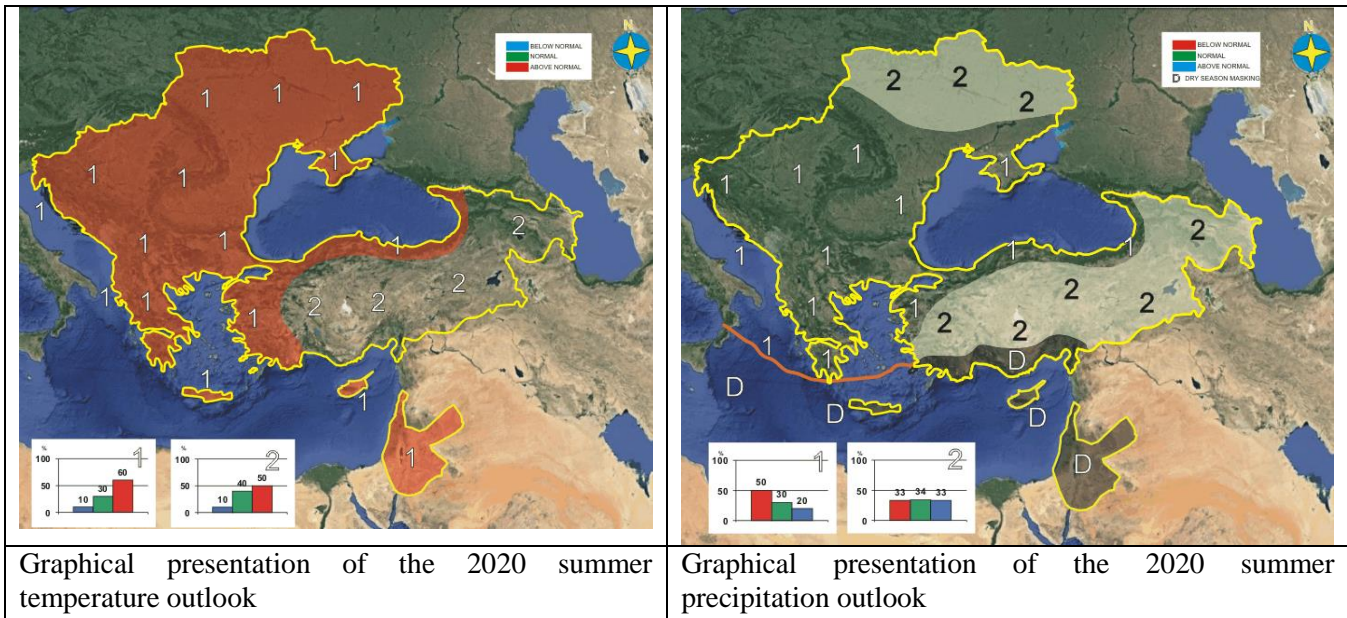


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In the entire SEECOF region, summer temperature is likely to be above-normal with the probability increasing from the northern-northwestern to the eastern and southern part of the region.

Uncertainties in regional predictions are higher for precipitation than for temperature.

The uncertainty is high for most of the South Caucasus region, continental parts of Turkey and northern parts of Ukraine- probabilities for below-, near- or above- average conditions are approximately equal. Below-normal summer precipitation sums are predicted for most of the SEECOF region. 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.