



## CLIMATE OUTLOOK FOR THE 2021 SUMMER SEASON FOR SERBIA AND THE SEECOF REGION

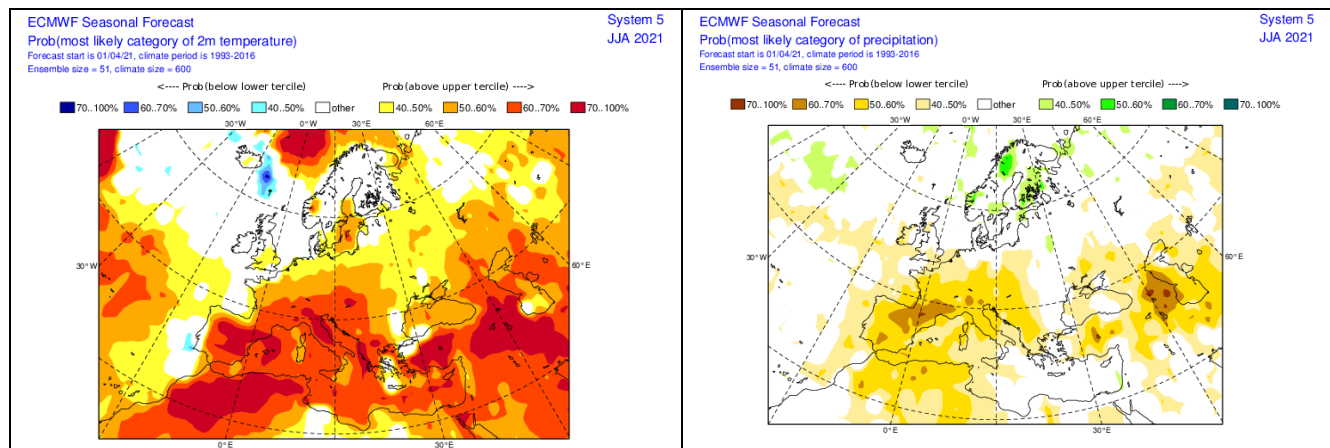
April 22, 2021

### INTRODUCTION

The NMHS of Serbia regularly prepares climate outlooks for our country based both on the ECMWF seasonal forecast model outputs, **and on the SEEVCCC regional climate model outputs**. This paper provides an extended climate outlook for the summer season relating not only to Serbia, but also to the entire SEECOF region.

### CLIMATE OUTLOOK FOR THE 2021 SUMMER SEASON BASED ON THE 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 with below-normal summer precipitations sums. Consequently, whole Serbia will experience a warmer and drier summer compared to the average conditions.



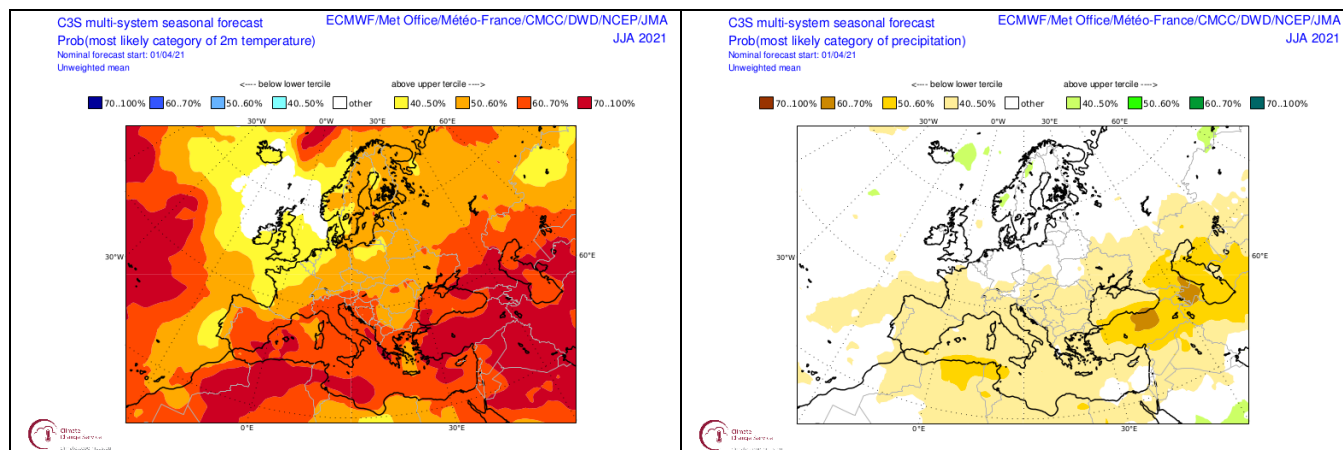
In most of the SEECOF region, summer temperature is likely to be above-normal, with the probability increasing from the continental part of Ukraine, eastern parts of the Balkan Peninsula and north-western coast of Turkey, toward western, southern and eastern parts of the region.

Most of the SEECOF region is likely to have below-normal summer precipitation, with the probability increasing from the continental part of Ukraine and eastern Balkans, toward the west and east of the SEECOF region. On the other hand, in the continental part of Ukraine, eastern Balkans, the Aegean, Central and Eastern Mediterranean Sea with belonging coasts there is no predictive signal for summer precipitation.



## CLIMATE OUTLOOK FOR THE 2021 SUMMER SEASON BASED ON THE 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 summer precipitation. Consequently, 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 continental parts of Ukraine and eastern Balkans toward the eastern, western and southern parts of the region. In most of the SEECOF region, summer precipitation is likely to be below-normal, while along the coasts of Israel and Lebanon, as well as in the northwestern parts of Ukraine there is no predictive signal.

## CLIMATE OUTLOOK FOR THE 2021 SUMMER SEASON BASED ON THE RCM-SEEVCCC SEASONAL FORECAST MODEL OUTPUTS FOR SERBIA AND THE SEE REGION

In the summer of 2021, 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 southwestern part of Serbia with near-normal precipitation totals.

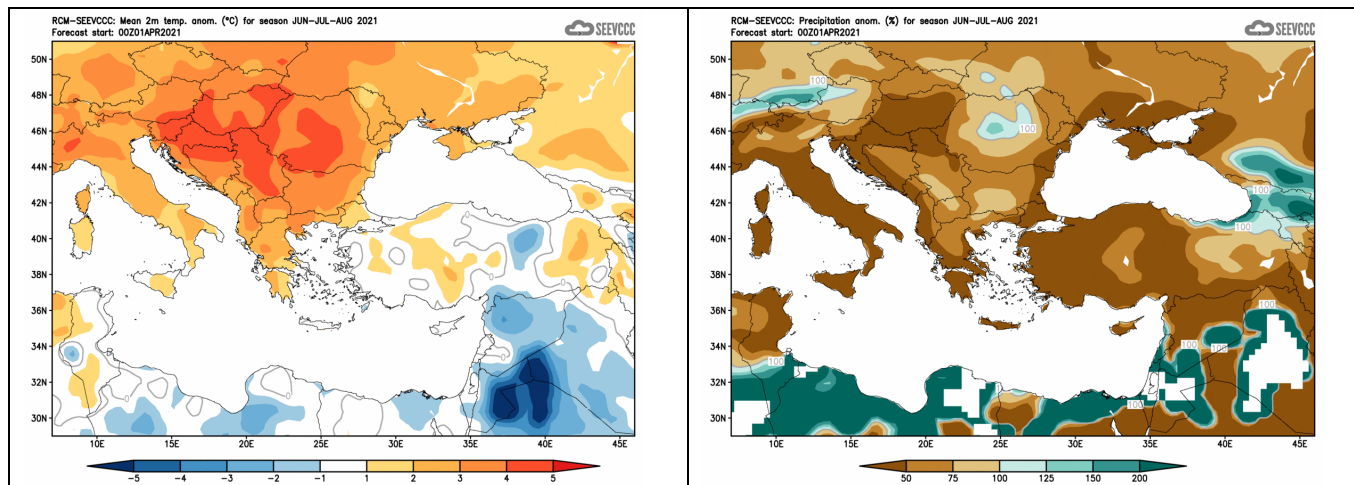


## REPUBLIC HYDROMETEOROLOGICAL SERVICE OF SERBIA

11030 Belgrade, Kneza Višeslava 66, Republic of Serbia

Tel.: +381 11/30 50 923, Fax: +381 11/30 50 847,

E-mail: office@hidmet.gov.rs



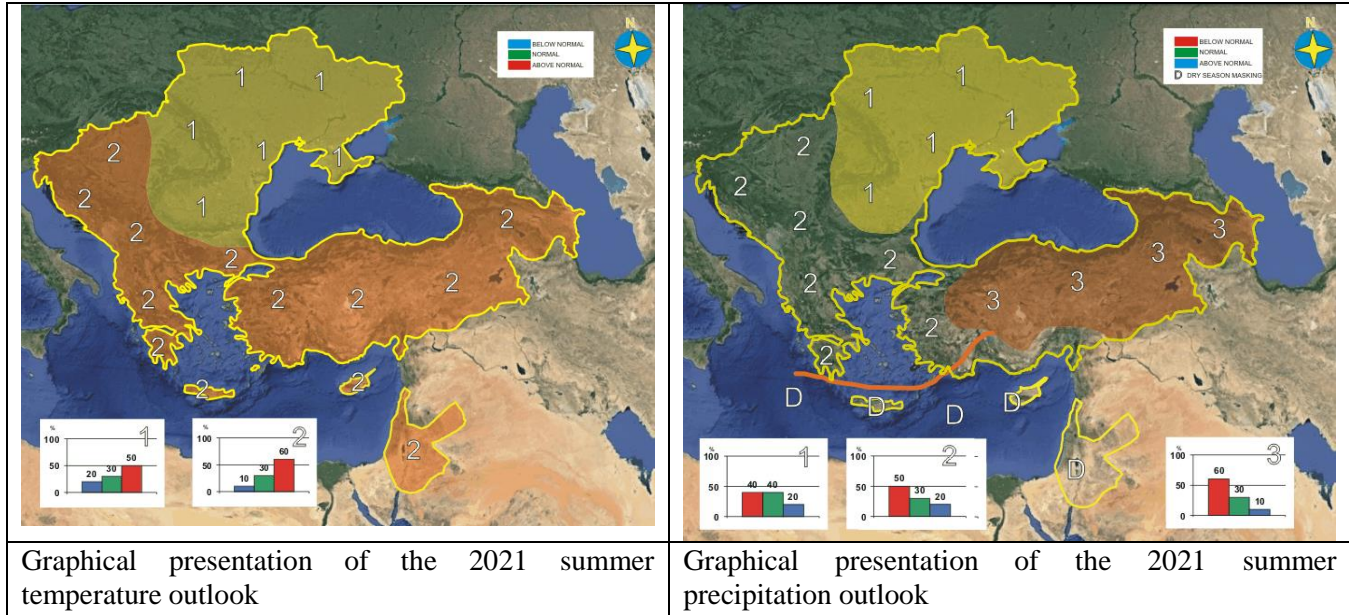
In Ukraine, the Balkan Peninsula, along the coasts of the Adriatic and Ionian Sea, in central and eastern Turkey and the South Caucasus region, summer temperature is likely to be above-normal, while normal conditions are expected in most of the South Caucasus region, Turkey, along the coasts of the Aegean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

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



## CLIMATE OUTLOOK FOR THE 2021 SUMMER SEASON FOR SERBIA AND THE SEE REGION – SUGGESTED BY THE NMHS OF SERBIA

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



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

Uncertainties in regional predictions are higher for precipitation than for temperature. Ukraine and the eastern part of the Balkan Peninsula are likely to experience below- or near-normal conditions in terms of summer precipitation sums. Most of the SEECOF region will receive below-normal precipitation sums with the probabilities increasing from the west to the east of the region. It should be noted that certain parts of the country, particularly mountainous 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.