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CLIMATE OUTLOOK FOR THE 2023 SUMMER SEASON FOR SERBIA AND THE SEECOF REGION

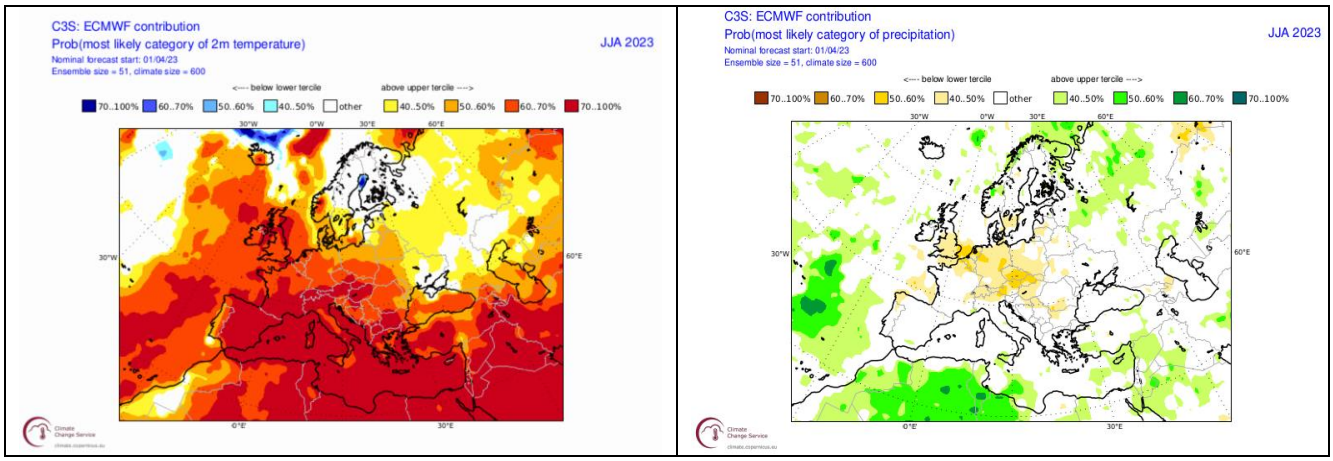
April 20, 2023

INTRODUCTION

The NMHS of Serbia regularly prepares climate outlooks for our country based 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 to the entire SEECOF region, not only to Serbia.

CLIMATE OUTLOOK FOR THE 2023 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. In most of Serbia, there is no predictive signal for summer precipitations sums, while below-normal summer precipitations sums are forecast for northern parts. Consequently, most of Serbia is anticipated to experience warmer summer, while northern parts are likely to see warmer and drier summer compared to the average conditions.



In most of the SEECOF region, summer temperature is likely to be above-normal with probability increasing from the Eastern Ukraine towards other parts of the region. There is no predictive signal for summer temperature in the eastern parts of Ukraine and along the northern coasts of the Black Sea.

In most of the SEECOF region, there is no predictive signal for summer precipitation sums. Below-normal summer precipitation is expected in the Pannonia Plain, while above-normal precipitation is expected in the Eastern Mediterranean and belonging coasts.

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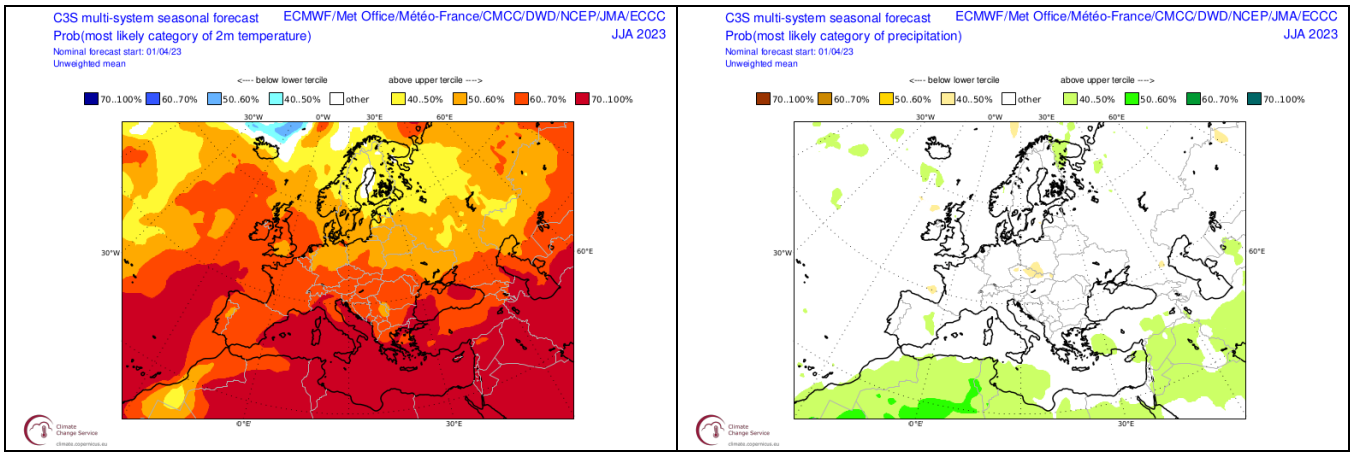
CLIMATE OUTLOOK FOR THE 2023 SUMMER SEASON BASED ON THE COPERNICUS SEASONAL FORECAST MODEL OUTPUTS FOR SERBIA AND THE SEE REGION (Hindcast period 1993-2016)

Serbia is likely to see above-normal summer temperature, while there is no predictive signal for summer precipitation. Consequently, entire Serbia is forecast to experience warmer summer compared to the average.



In the entire SEECOF region, summer temperature is likely to be above-normal, with the probability increasing from the northeastern parts towards the remainder of the region. In most of the SEECOF region, there is no predictive signal for summer precipitation sums, while northern coasts of the Eastern Mediterranean Sea are likely to see above-normal summer precipitation compared to the average conditions.

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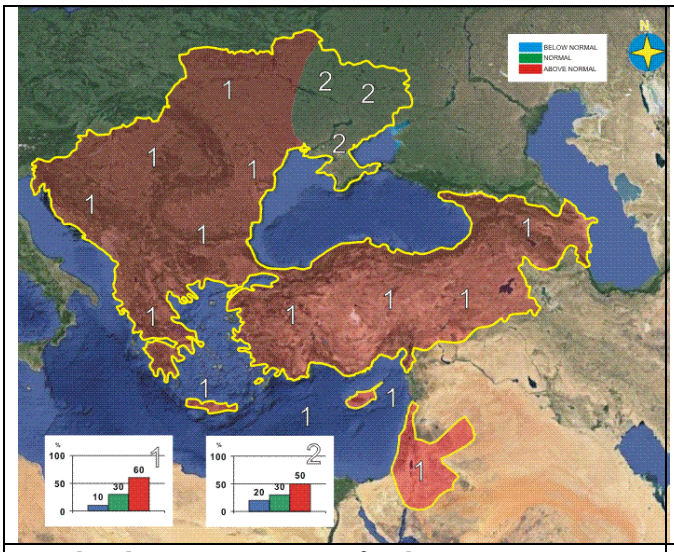
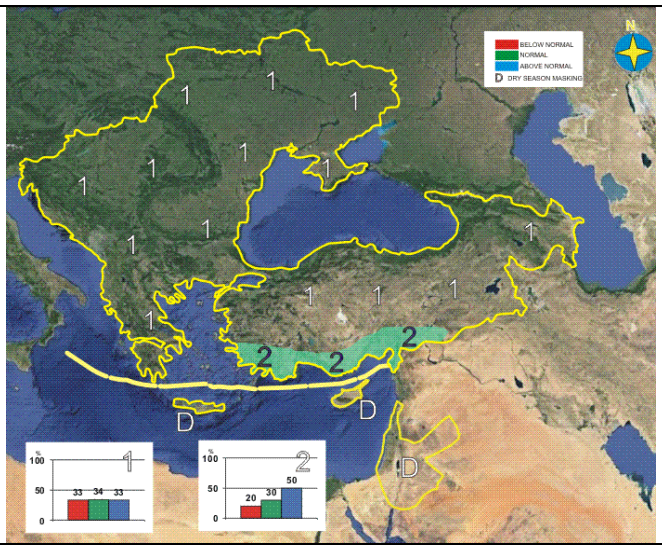
CLIMATE OUTLOOK FOR THE 2023 SUMMER SEASON FOR SERBIA AND THE SEE REGION – SUGGESTED BY THE NMHS OF SERBIA

Summer temperature in Serbia is likely to be above-normal, while there is no predictive signal for summer precipitation sums. Consequently, whole Serbia will experience warmer conditions compared to the average.



Graphical presentation of the 2023 summer temperature outlook



Graphical presentation of the 2023 summer precipitation outlook

In most of the SEECOF region, summer temperature is likely to be above-normal with probability increasing from the Eastern Ukraine towards other parts of the SEECOF region.

Uncertainties in regional predictions are higher for precipitation than for temperature. In most of the SEECOF region, there is no predictive signal for summer precipitation sums, while northern coasts of the Eastern Mediterranean Sea are likely to see above-normal summer precipitation compared to the average conditions. It is noteworthy 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.