



## CLIMATE OUTLOOK FOR THE WINTER OF 2022/2023 FOR SERBIA AND THE SEECOF REGION

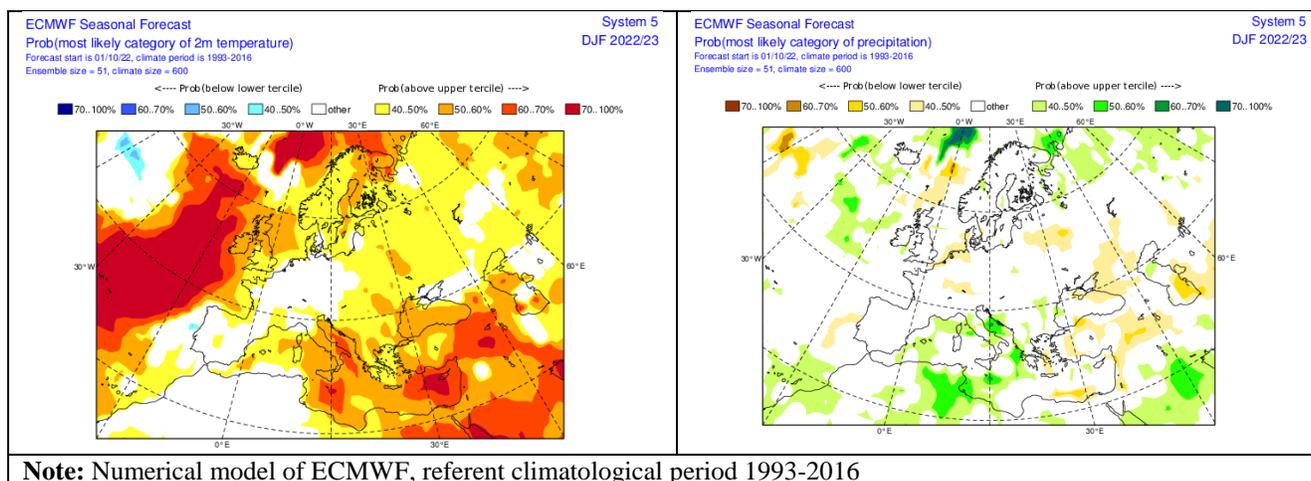
October 20<sup>th</sup> 2022

### INTRODUCTION

NHMS of Serbia regularly prepares climate outlooks for our country on the basis of the ECMWF seasonal forecast model outputs **as well as on the basis of the SEEVCCC regional climate model outputs**. In this paper we will extend the scope of our climate outlook and provide a winter outlook for both Serbia and the entire SEECOF region.

### CLIMATE OUTLOOK FOR THE WINTER OF 2022-2023 BASED ON THE ECMWF SEASONAL FORECAST MODEL OUTPUTS FOR SERBIA AND THE SEE REGION

Winter temperature is likely to be above normal in entire Serbia, while there is no signal for winter precipitation sums. Consequently, entire Serbia is forecast to experience milder and averagely wet winter relative to the 1993-2016 base period.



In most of the SEECOF region, winter temperatures are likely to be above normal with probabilities increasing from north-northeast toward south-southeast of the region. The exception to this is the southern part of Ukraine with equal probabilities for below-, near- or above-normal winter temperatures.

In most of the SEECOF region, there is no predictive signal for winter precipitation. Winter precipitation sums are likely to be below-normal in continental parts of Israel, Jordan, Lebanon, as well as in southeast of Turkey. On the other hand, some parts in east of the Carpathian region, as well as along the coasts of the Adriatic and Ionian Sea may receive above-normal winter precipitation sums.



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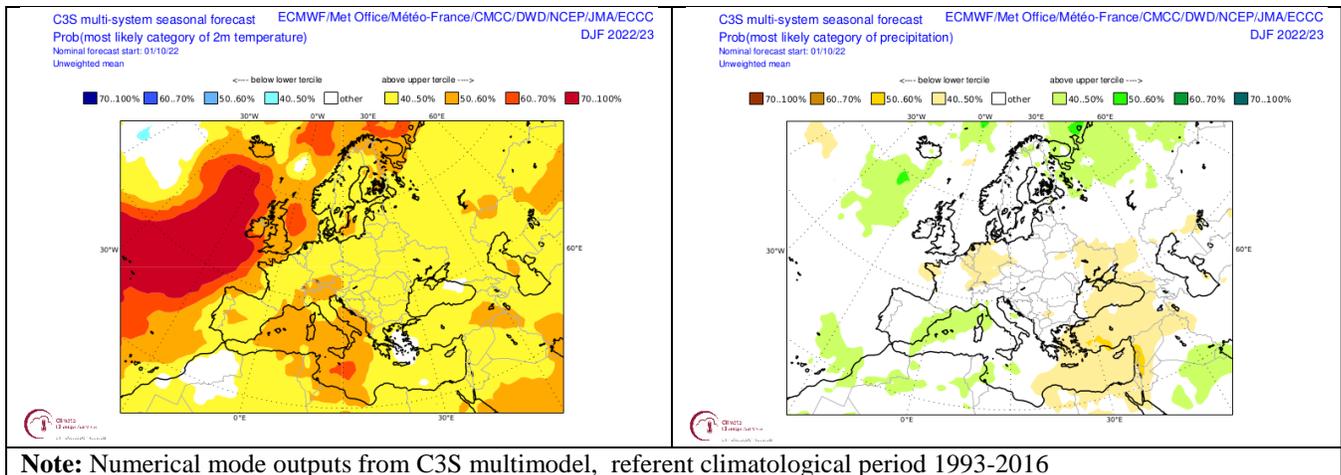
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### CLIMATE OUTLOOK FOR THE WINTER OF 2022/2023 BASED ON C3S MULTIMODEL SYSTEM SEASONAL FORECAST OUTPUTS FOR SERBIA AND THE SEE REGION

Serbia is expected to experience above-normal winter temperatures, while there is no signal for winter precipitation. Consequently, Serbia will have a milder winter relative to the 1993-2016 base period.



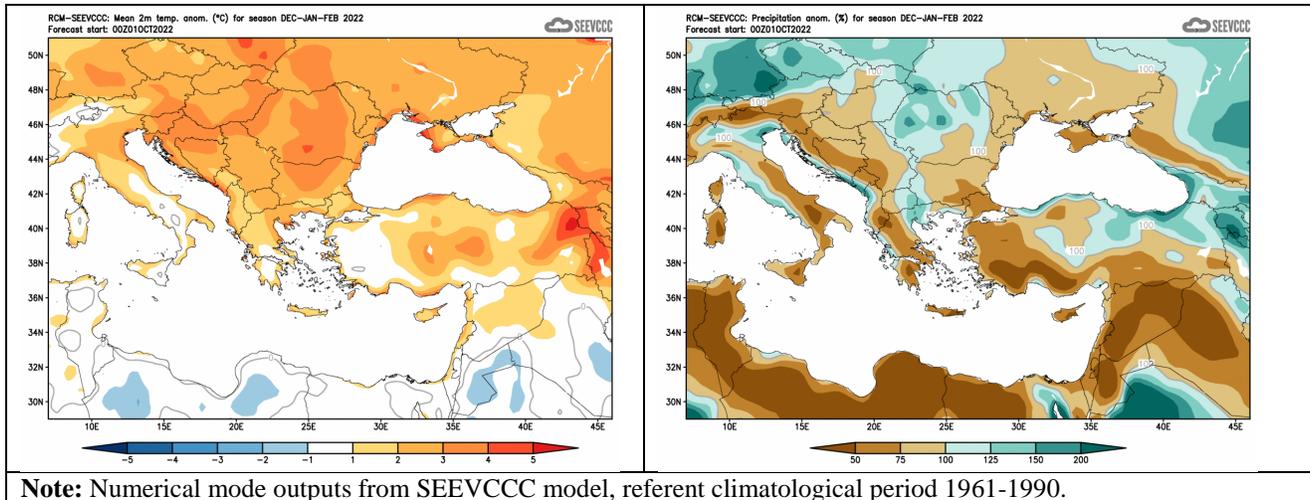
In the entire SEECOF region, winter temperatures are likely to be above-normal.

In most of the SEECOF region, there is no predictive signal for winter precipitation totals, while Turkey, southern and eastern coasts of the Black Seas, as well as Eastern Mediterranean with belonging coasts, Israel, Jordan, Lebanon will experience below-normal precipitation totals.



## CLIMATE OUTLOOK FOR THE WINTER OF 2022/2023 BASED ON RCM-SEEVCCC SEASONAL FORECAST MODEL OUTPUTS FOR SERBIA AND THE SEE REGION

During winter 2022/2023, positive temperature anomalies with near-normal precipitation sums are expected in most of the country, while in eastern parts of Serbia near-normal temperatures and near-normal precipitation sums are predicted.



In most of the SEECOF region, winter temperature is likely to be above-normal, while in south Greece, western parts of Turkey, continental parts of Israel and western parts of Jordan, where near-normal conditions are predicted. On the other hand, in some parts on the east of Jordan winter temperature is likely to be below-normal.

Winter precipitation sums are likely to be near-normal in most of the region, while Carpathian region, coasts of the Adriatic as well as southern and eastern coasts of the Black Sea and the South Caucasus region may receive more precipitation. On the other hand, winter precipitation sums in Syria, Israel, along the coasts of Eastern Mediterranean, on the south and west of Turkey as well as, in inland of Greece and along Dinaric Alps are likely to experience below-normal conditions.



## SUGGESTED NHMS SERBIA CLIMATE OUTLOOK FOR THE WINTER OF 2022/2023 FOR SERBIA AND THE SEE REGION

Entire Serbia is predicted to experience above- or near-normal winter temperatures relative to the 1981-2010 base period, while there is no predictive signal for winter precipitation totals.

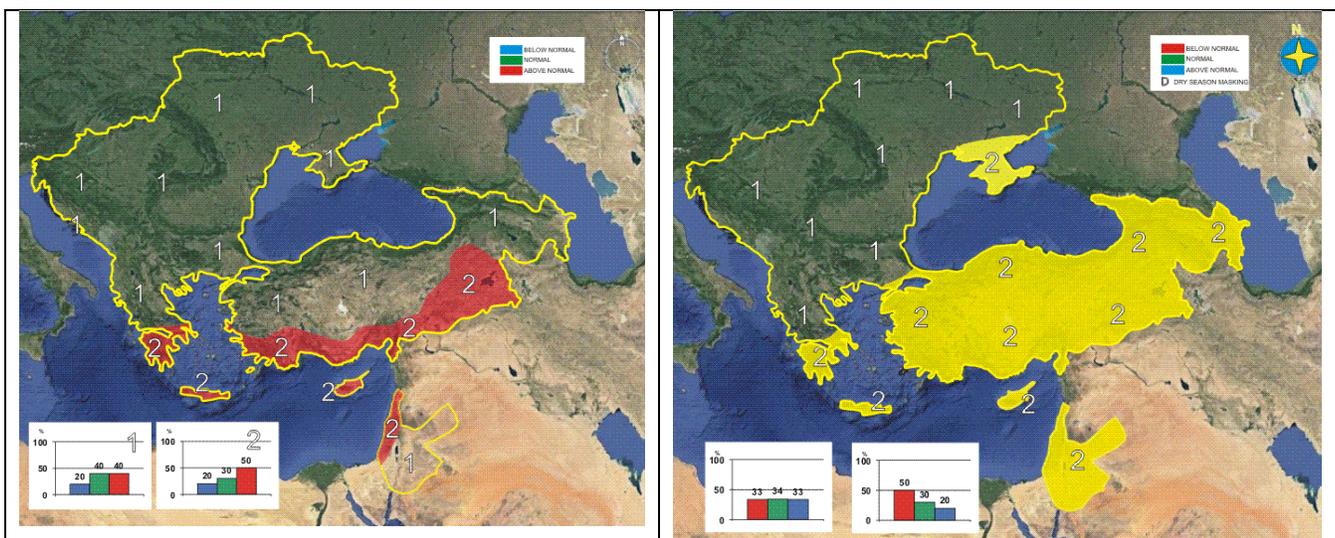


Figure 1. Graphical presentation of the 2022/23 winter temperature outlook

Figure 2. Graphical presentation of the 2022/23 winter precipitation outlook

Winter temperature is likely to be near or above-normal in most of the SEECOF region (zone 1 in Figure 1) and above-normal in Jordan, continental parts of Israel, along the coasts of the Ionian, Aegean, Central and Eastern Mediterranean Seas with belonging hinterland (zone 2 in Figure 1).

In the south of Greece, South Caucasus region, Turkey, Israel, Jordan, along the coasts of Ionian, southern coasts of the Aegean and Black Sea (zone 2 in Figure 2), winter precipitation totals are likely to be below-normal, while in rest of the SEECOF region (zone 1 in Figure 2) the uncertainty is high: probabilities for below, near- or above-average conditions are approximately equal.