



CLIMATE OUTLOOK FOR THE WINTER OF 2023/2024 FOR SERBIA AND THE SEECOF REGION

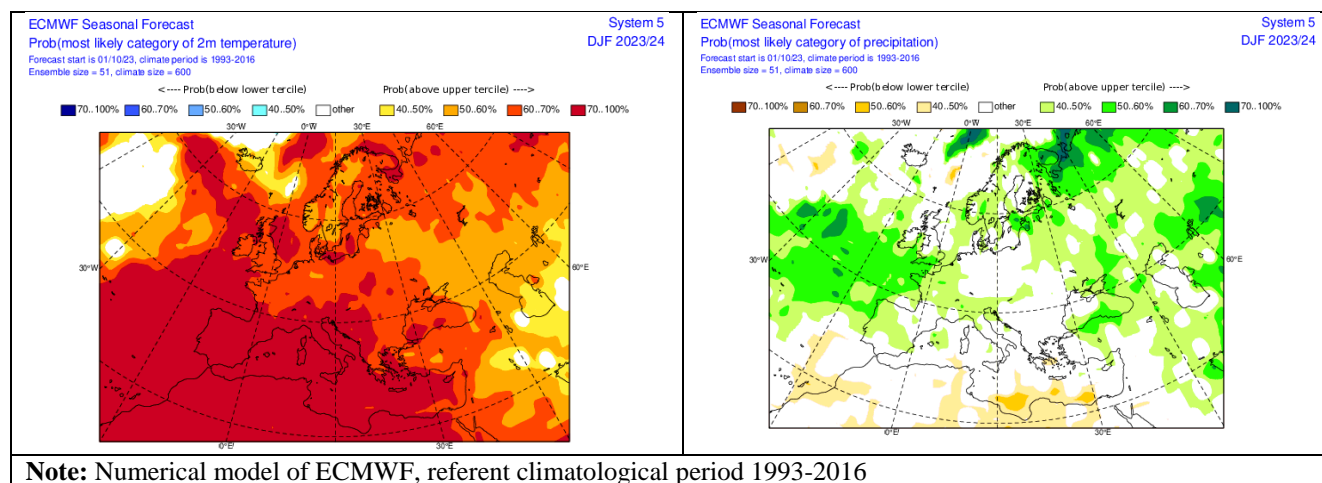
October 19th 2023

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 2023-2024 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.



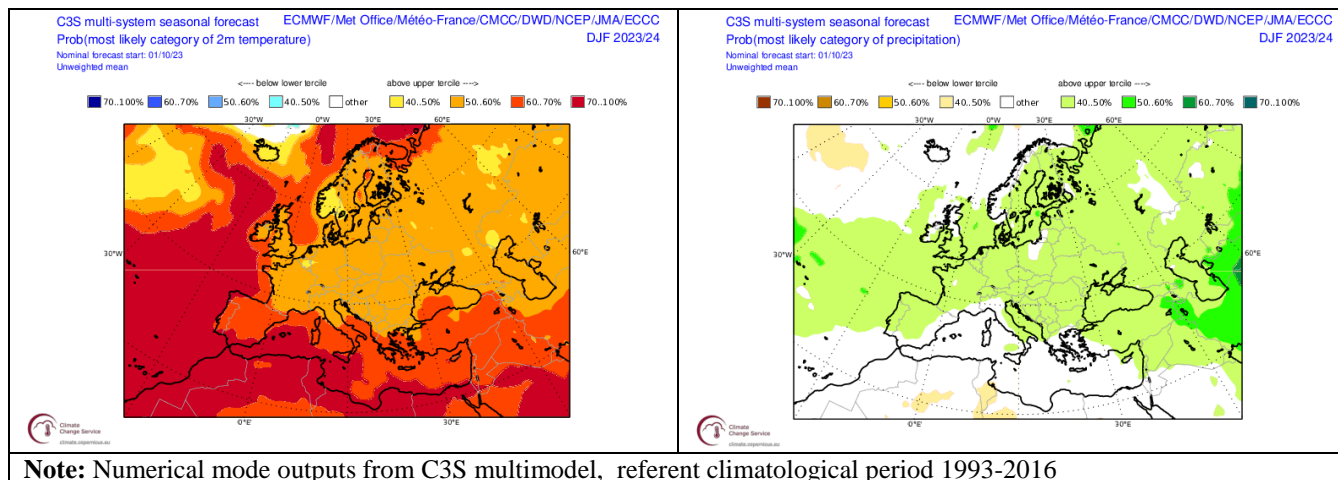
In most of the SEECOF region, winter temperatures are likely to be above normal with probabilities increasing from north-northeast toward south-southwest of the region.

In most of the SEECOF region, there is no predictive signal for winter precipitation. Winter precipitation sums are likely to be above-normal in the southeastern parts of Ukraine, along the coasts of the North Adriatic Sea, South Caucasus region, as well as, along the southern and eastern coasts of the Black Sea.



CLIMATE OUTLOOK FOR THE WINTER OF 2023/2024 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, winter in Serbia is anticipated to be milder relative to the 1993-2016 base period.



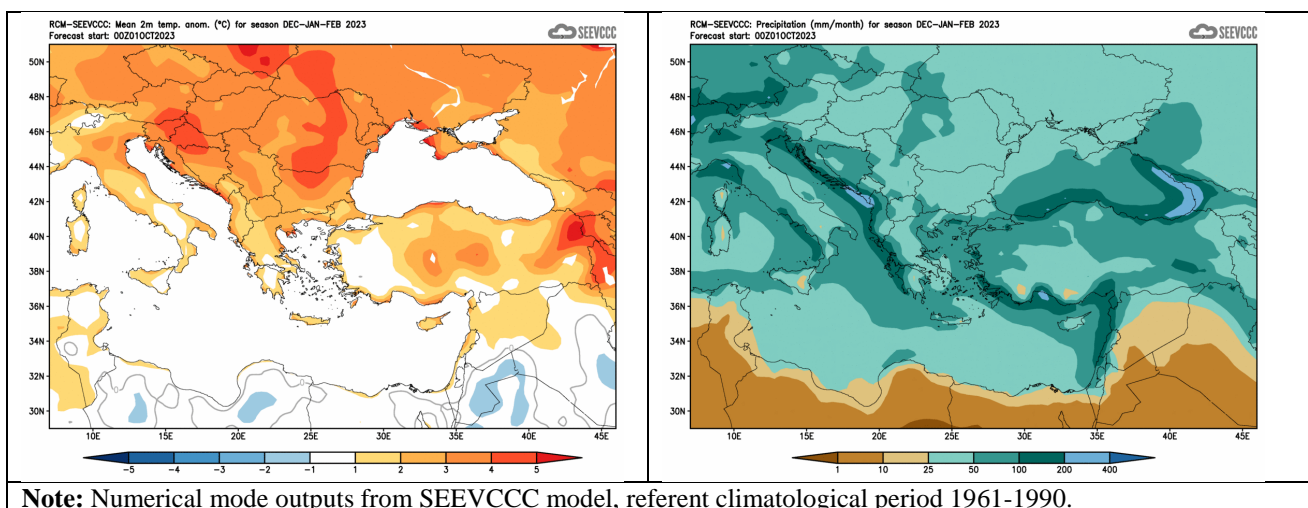
In the entire SEECOF region, winter temperatures are likely to be above-normal with probabilities increasing from north toward south-southeast of the region.

The most of the SEECOF region is expected to experience above normal precipitation totals, while there is no predictive signal for winter precipitation totals in Southern Balkans, Eastern Mediterranean and along the coasts of Ionian, Aegean Seas with belonging hinterland.



CLIMATE OUTLOOK FOR THE WINTER OF 2023/2024 BASED ON RCM-SEEVCCC SEASONAL FORECAST MODEL OUTPUTS FOR SERBIA AND THE SEE REGION

During winter 2023/2024, positive temperature anomalies with near-normal precipitation sums are expected in the whole country.



In most of the SEECOF region, winter temperature is likely to be above-normal, while in mountainous region of the southern Greece, western parts of Turkey, continental parts of Israel and eastern parts of Jordan, near-normal conditions are predicted.

Winter precipitation sums are likely to be near-normal in most of the region, while coasts of the Adriatic, Ionian, East Mediterranean, as well as southern and eastern coasts of the Black Sea may receive above-normal precipitation sums. On the other hand, winter precipitation sums in Syria are likely to be below-normal conditions.



SUGGESTED NHMS SERBIA CLIMATE OUTLOOK FOR THE WINTER OF 2023/2024 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.

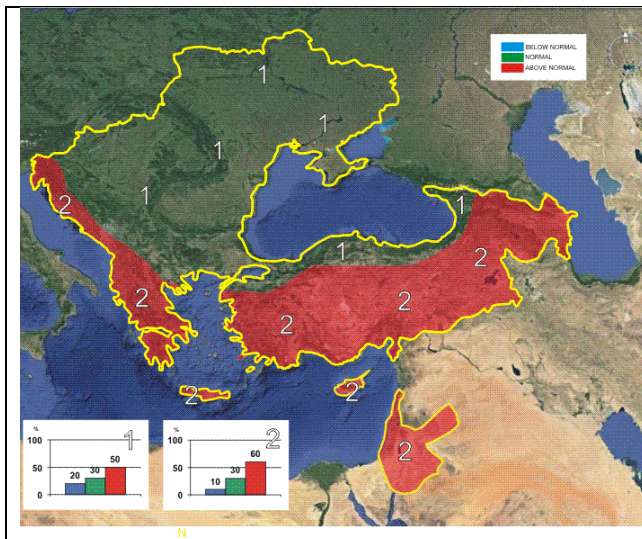


Figure 1. Graphical presentation of the 2023/24 winter temperature outlook

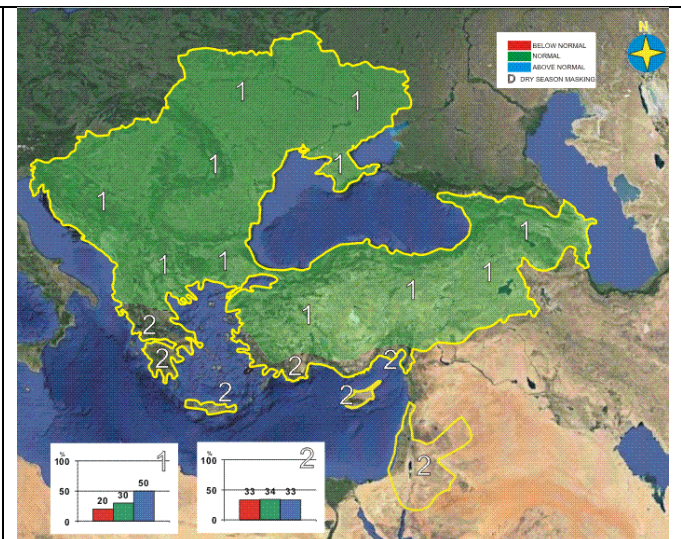


Figure 2. Graphical presentation of the 2024/24 winter precipitation outlook

Winter temperature is likely to be above-normal in the entire SEECOF region with probabilities increasing from northern part (zone 1 in Figure 1) to southern parts of the region (zone 2 in Figure 1).

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