



CLIMATE OUTLOOK FOR THE WINTER OF 2021/2022 FOR SERBIA AND THE SEECOF REGION

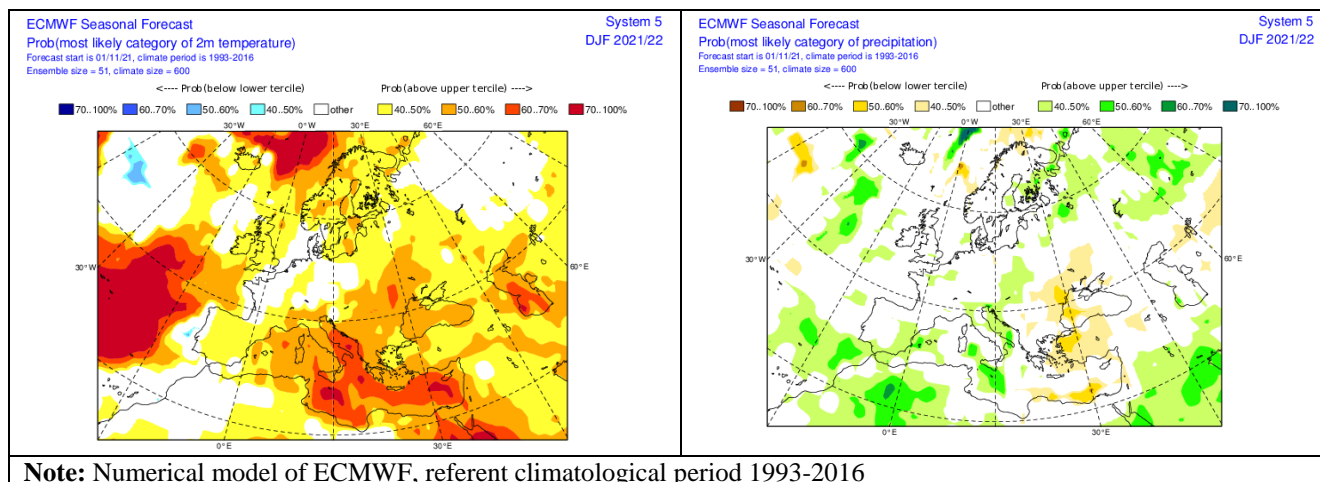
November 17th 2021

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 2021-2022 BASED ON THE ECMWF SEASONAL FORECAST MODEL OUTPUTS FOR SERBIA AND THE SEE REGION

Winter temperature in Serbia is likely to be above-normal, while there is no signal for winter precipitation sums. Consequently, Serbia will observe milder winter relative to the 1981-2010 base period.

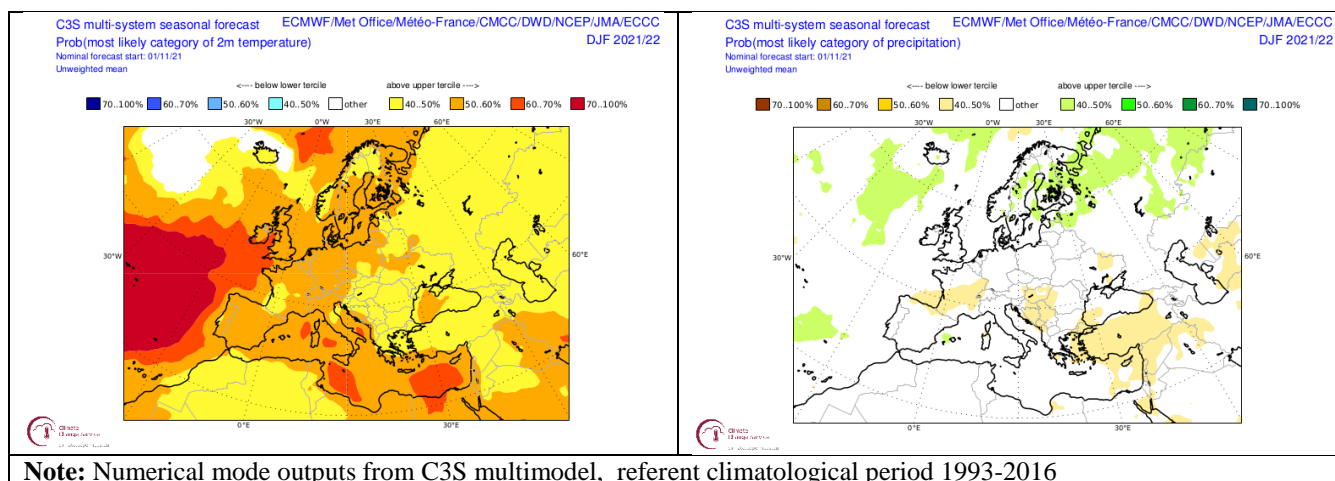


In the entire SEECOF region, winter temperatures are likely to be above-normal with probability increasing from eastern toward southern and southwestern areas of the SEECOF region. However, in most of the SEECOF region, there is no predictive signal for winter precipitation. Winter precipitation sums are likely to be below-normal in the western part of Turkey, Aegean Sea, along the coasts of Israel and Lebanon, as well as western coasts of the Black Sea and in the south of Ukraine. On the other hand, some parts in Pannonia Plain, coasts of the Adriatic Sea and the inland of the Syria may receive above-normal winter precipitation sums.



CLIMATE OUTLOOK FOR THE WINTER OF 2021/2022 BASED ON C3S MULTIMODEL SYSTEM SEASONAL FORECAST OUTPUTS FOR SERBIA AND THE SEE REGION

Serbia is expected to observe above-normal winter temperatures. Most of the country is likely to observe below-normal winter precipitation, while there is no signal for winter precipitation sums in the southern parts of Serbia. Consequently, a milder and drier winter is forecasted for most of Serbia, whilst milder and normally wet winter relative to the 1993-2016 base period is anticipated in the southern parts of the country.



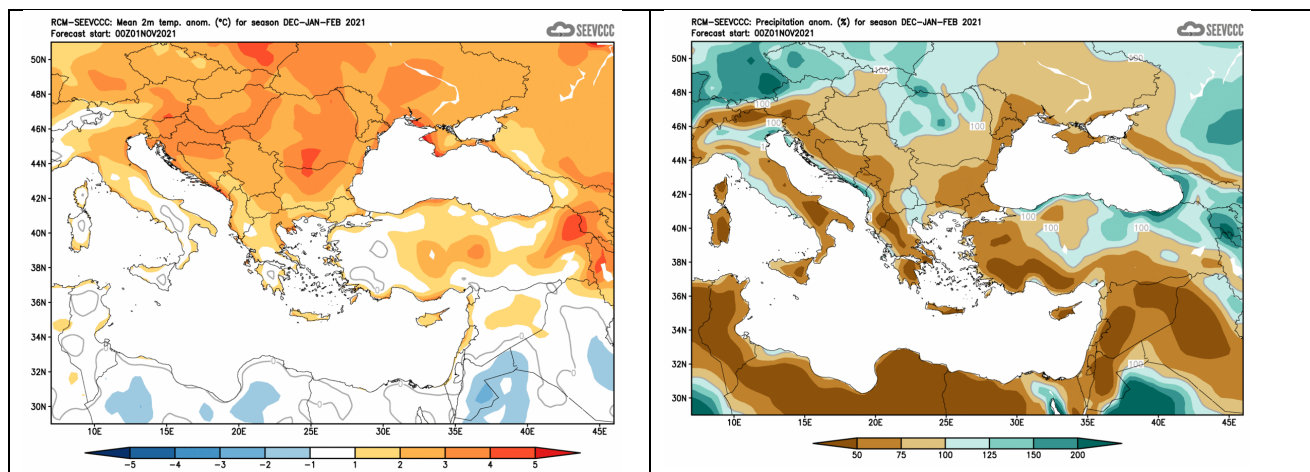
In most of the SEECOF region, winter temperatures are likely to be above-normal with probability increasing from east toward west-southwest of the SEECOF region.

In most of the SEECOF region, there is no predictive signal for winter precipitation totals, whilst below-normal precipitation totals are anticipated along the coasts of Eastern Mediterranean, southern coast of Black Sea, Central and Southern Adriatic Sea with belonging hinterland, as well as in Pannonia Plain, Central and Western Balkans.



CLIMATE OUTLOOK FOR THE WINTER OF 2021-2022 BASED ON RCM-SEEVCCC SEASONAL FORECAST MODEL OUTPUTS FOR SERBIA AND THE SEE REGION

During winter 2021/2022, positive temperature anomalies are expected in most of Serbia with near-normal precipitation sums, while southwestern parts of country are likely to experience positive temperature anomalies with below-normal precipitation sums.



In most of the SEECOF region, winter temperature is likely to be above-normal, with the exception of southern parts of the Balkans, western and southeastern parts of the inland of Turkey, Jordan, continental parts of Israel and Lebanon, where near-normal conditions are predicted.

Winter precipitation sums are likely to be near-normal in most of the SEECOF region, while precipitation deficit may be observed in Israel, Lebanon, Jordan, southern part of Balkan Peninsula, Dinaric Alps, Aegean Sea, Eastern Mediterranean and northern and western coasts of Black Sea with belonging coasts, western and southern parts of Turkey. Conversely, eastern coasts of the Black Sea as well as some parts of the Carpathian and Caucasus mountain regions may receive more winter precipitation.

SUGGESTED NHMS SERBIA CLIMATE OUTLOOK FOR THE WINTER OF 2021-2022 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.

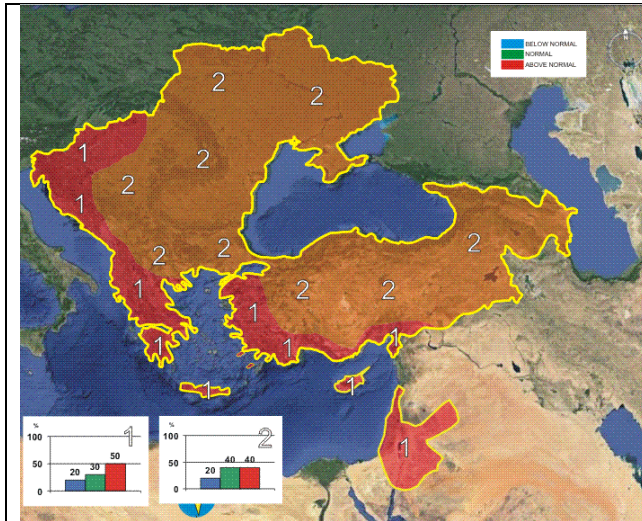


Figure 1. Graphical presentation of the 2021/22 winter temperature outlook

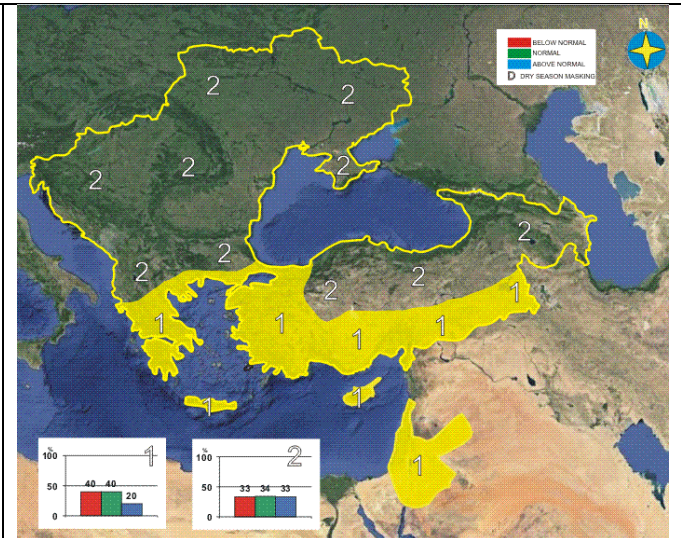


Figure 2. Graphical presentation of the 2021/22 winter precipitation outlook

Winter temperature is likely to be near or above-normal in most of the SEECOF region (zone 2 in Figure 1), whereas Pannonia Plain, western Balkans, western parts of Turkey, Israel, Jordan, along the coasts of the Adriatic, Ionian, Aegean and Mediterranean Seas with belonging hinterland are forecasted to observe above-normal winter temperature (zone 1 in Figure 1).

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