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

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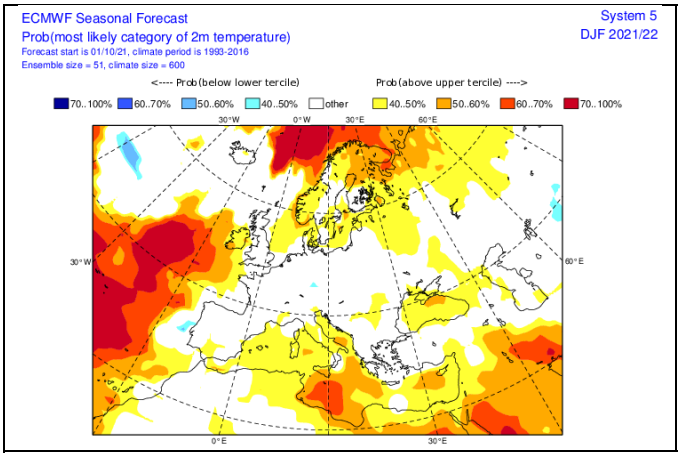
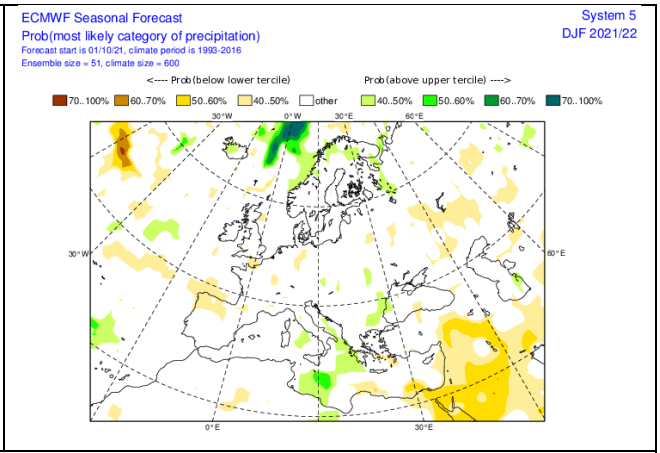
INTRODUCTION

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

In most of Serbia, there is no signal for winter temperature, with the exception of the northeast of country where above-normal conditions are expected. In entire Serbia, there is no signal for winter precipitation sums. Consequently, most of Serbia will observe normal winter relative to the 1981-2010 base period.





Note: Numerical model of ECMWF, referent climatological period 1993-2016

In most of the SEECOF region, there are equal probabilities for below-, near- or above-normal winter temperatures. Winter temperatures in Carpathian region, along the coasts of the Adriatic, Ionian, Black and Eastern Mediterranean Sea as well as in Israel, Lebanon and Jordan are likely to be above-normal.

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

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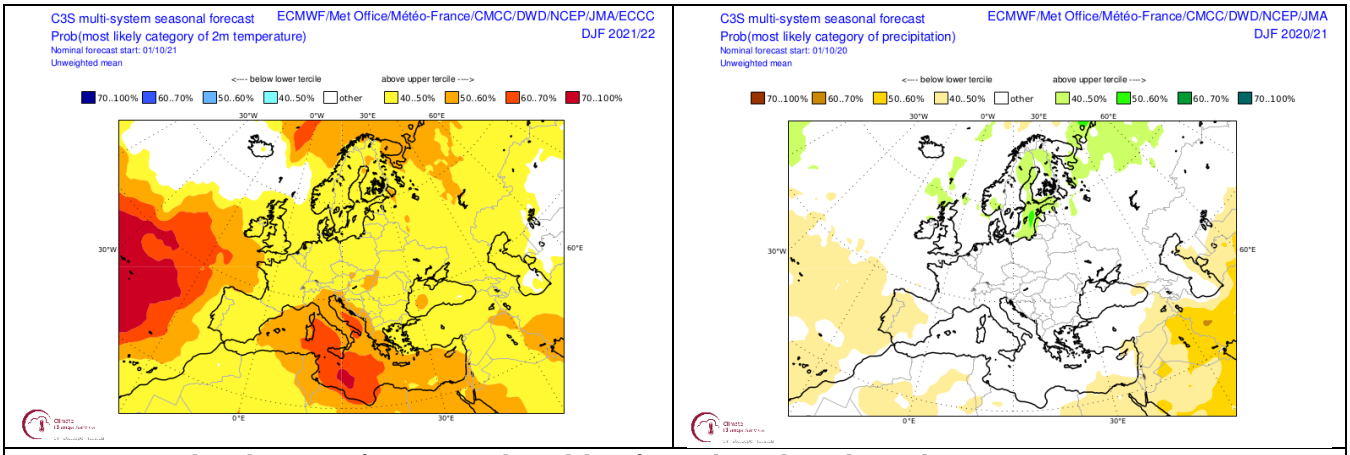
CLIMATE OUTLOOK FOR THE WINTER OF 2021/2022 BASED ON C3S MULTIMODEL SYSTEM SEASONAL FORECAST OUTPUTS FOR SERBIA AND THE SEE REGION

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



Note: Numerical mode outputs from C3S multimodel, referent climatological period 1993-2016

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

In most of the SEECOF region, there is no predictive signal for winter precipitation totals, while Israel, Jordan, Lebanon and southeastern parts of Turkey will experience below-normal precipitation totals.

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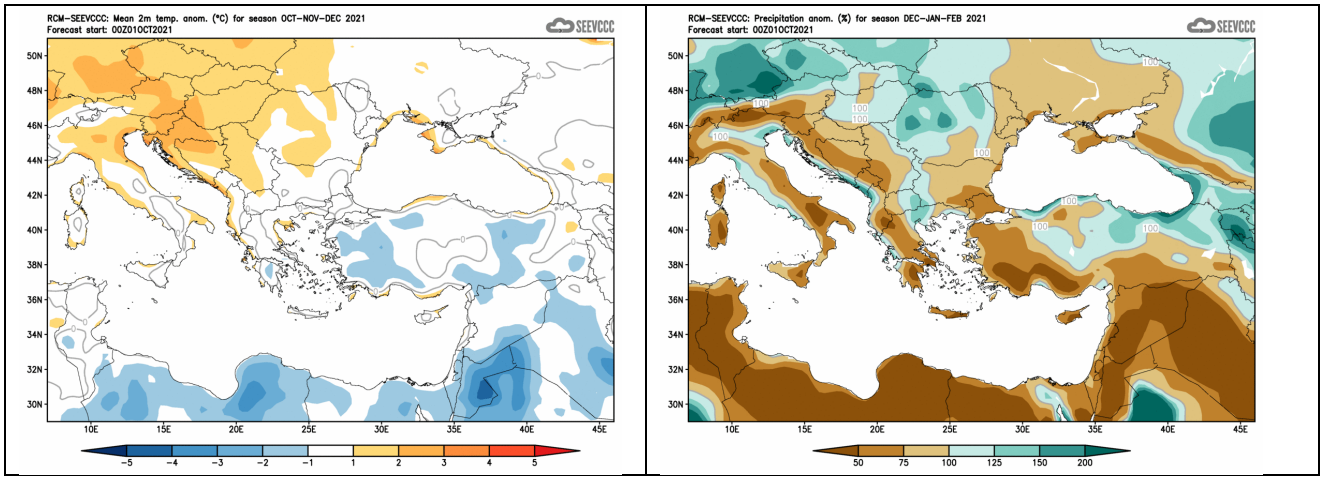
CLIMATE OUTLOOK FOR THE WINTER OF 2021/2022 BASED ON RCM-SEEVCCC SEASONAL FORECAST MODEL OUTPUTS FOR SERBIA AND THE SEE REGION

During winter 2021/2022, positive temperature anomalies 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 near-normal, with the exception of the Pannonia Plain, Carpathian region, along the coasts of the Adriatic, Black, and southern coasts of the Mediterranean Sea where above-normal conditions are predicted. On the other hand, in Syria and some parts of inland of Turkey and Israel 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 Syria, Israel and inland of Greece is likely to have below-normal conditions.

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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.

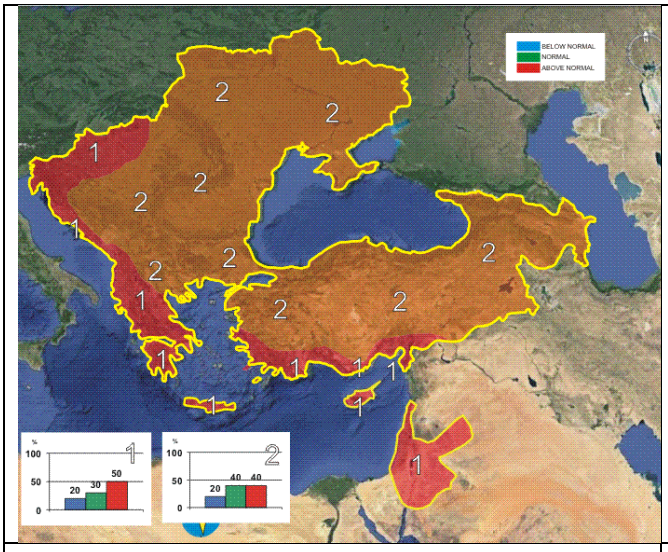

Figure 1. Graphical presentation of the 2021/22 winter temperature outlook

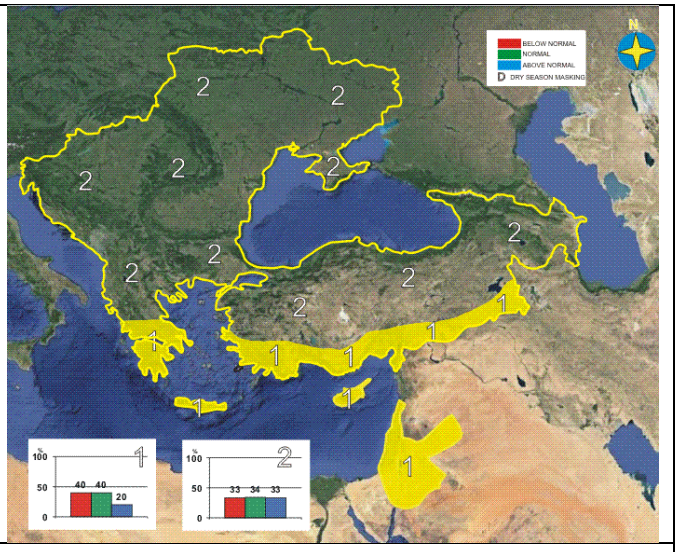

Figure 2. Graphical presentation of the 2021/22 winter precipitation outlook

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

On south of Greece, on south 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) the uncertainty is high: probabilities for below, near- or above-average conditions are approximately equal.