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CLIMATE OUTLOOK FOR THE WINTER OF 2019/2020 FOR SERBIA AND THE SEECOF REGION

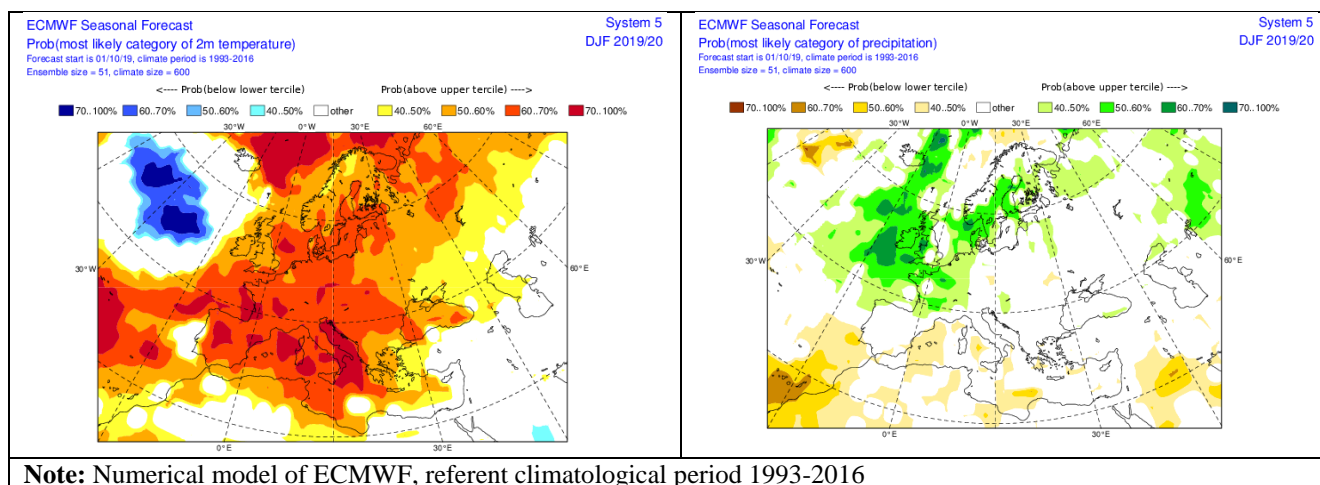
October 25th 2019

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 2019-2020 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 precipitations sums. Consequently, Serbia will observe milder winter relative to the 1981-2010 base period.



In most of the SEECOF region, winter temperatures are likely to be above normal with probability decreasing from the northwest, west to the southeast of the region. In most of Turkey, eastern coasts of the Mediterranean Sea as well as in Israel, Lebanon and Jordan there are equal probabilities for below, near- or above-normal winter temperatures.

Also, in most of the SEECOF region, there is no predictive signal for winter precipitation. Winter precipitation sums are likely to be below- or near-normal on the south of Greece as well as in the hinterland of Jordan.



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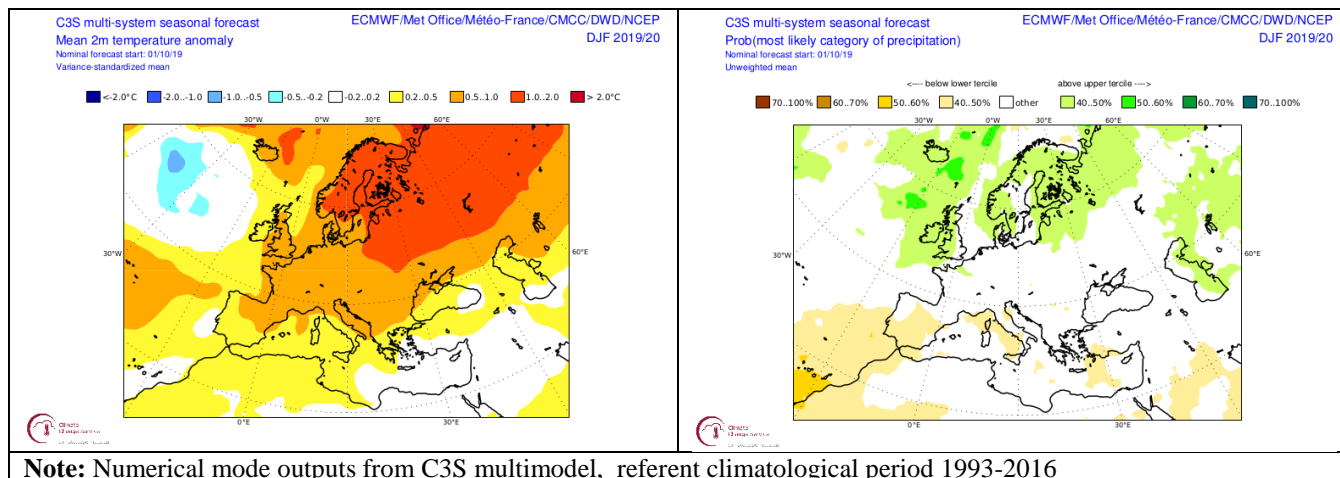
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CLIMATE OUTLOOK FOR THE WINTER OF 2019/2020 BASED ON C3S MULTIMODEL SYSTEM SEASONAL FORECAST OUTPUTS FOR SERBIA AND THE SEE REGION

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.



In most of the SEECOF region, winter temperatures are likely to be above-normal with probability decreasing from the northwest, west to the southeast of the region. On the south of Turkey, along eastern coasts of the Mediterranean Sea, as well as in Israel, Lebanon and Jordan there are equal probabilities for below-, near- or above-normal winter temperatures.

In most of the SEECOF region, there is no predictive signal for winter precipitation totals, while southwestern parts of Turkey, as well as hinterland of Jordan will experience below- or near-normal precipitation totals.



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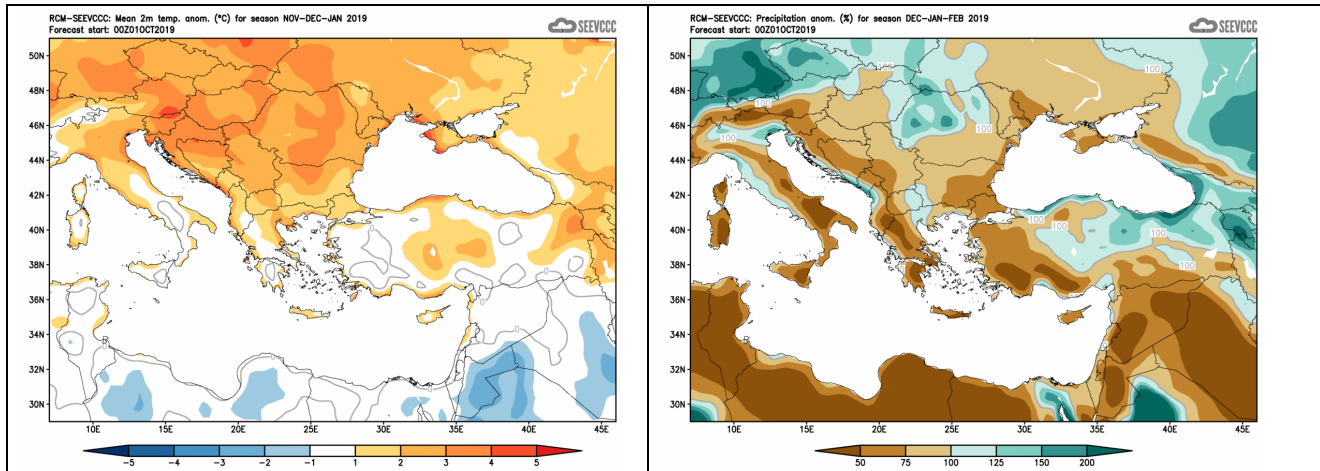
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CLIMATE OUTLOOK FOR THE WINTER OF 2019-2020 BASED ON RCM-SEEVCCC SEASONAL FORECAST MODEL OUTPUTS FOR SERBIA AND THE SEE REGION

During winter 2019/2020, positive temperature anomalies are expected in entire Serbia with near-normal precipitation sums.



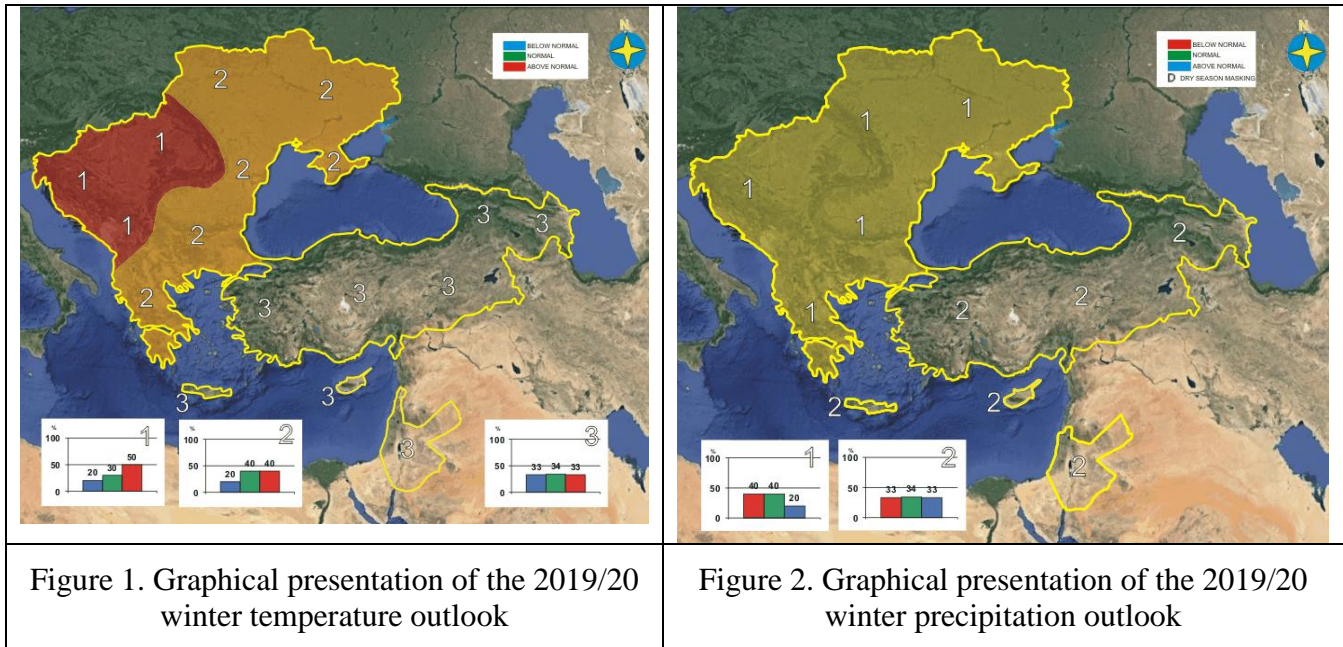
In most of the SEECOF region, winter temperature is likely to be above-normal, with the exception of southern parts of the Balkans, most of the inland in Turkey, continental parts of Israel, Jordan and Lebanon, where near-normal conditions are predicted.

Winter precipitation sums are likely to be below-normal to normal in most of the region, while western part of Ukraine, western slopes of Carpathian region, southern and eastern coasts of the Black Sea, as well as the South Caucasus region may receive more precipitation.



SUGGESTED NHMS SERBIA CLIMATE OUTLOOK FOR THE WINTER OF 2019-2020 FOR SERBIA AND THE SEE REGION

Entire Serbia is predicted to experience a milder winter relative to the 1981-2010 base period, with below- to near-normal winter precipitation totals.



Winter temperature is likely to be above-normal in Pannonian Plain, Carpathian region, Western and Central Balkans as well as along the coasts of Adriatic Sea, (zone 1 in Figure 1), while near- to above-normal conditions are expected in Ukraine, Eastern and Southern Balkans, along the coasts of the Ionian Sea (zone 2 in Figure 1). On the other hand, in rest of the SEECOF region (zone 3 in Figure 1) there is no signal for the winter temperatures.

Along the coasts of Adriatic and Ionian Sea, western coasts of the Aegean Sea, Ukraine and Balkan Peninsula (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.