



SEASONAL CLIMATE OUTLOOK FOR WINTER 2015-2016 FOR SERBIA AND THE SEECOF REGION

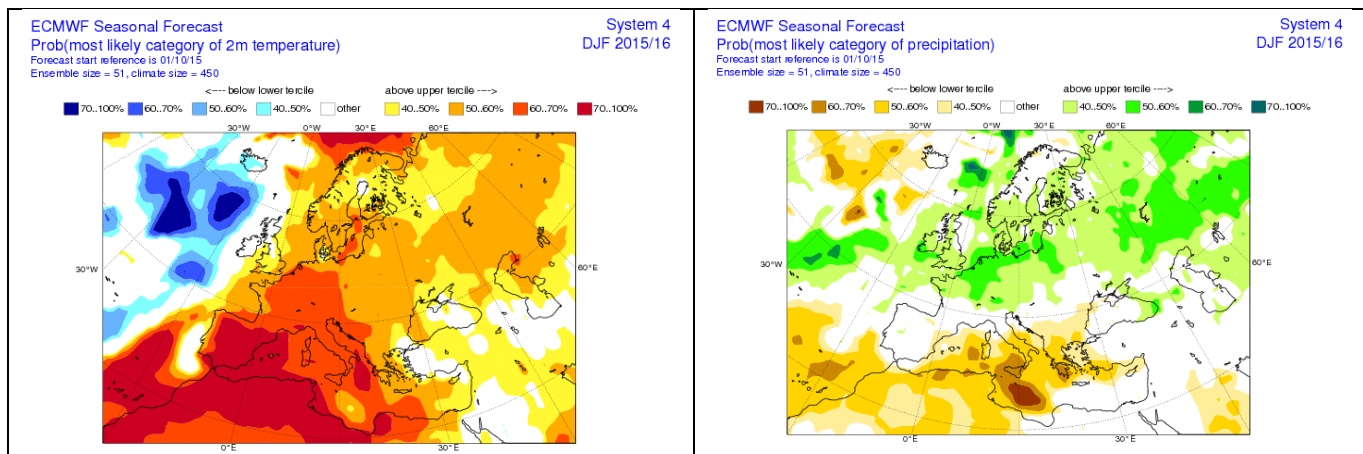
October 21st 2015

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 providing a winter outlook not only for Serbia but the entire SEECOF region as well.

CLIMATE OUTLOOK FOR WINTER 2015-2016 BASED ON ECMWF SEASONAL FORECAST MODEL OUTPUTS FOR SERBIA AND THE SEE REGION

Serbia is likely to experience above-normal winter temperature. Below-normal winter precipitation sums are likely for most of the country, apart from northern parts where there is no signal for winter precipitation sums. In other words, warmer and drier winter is favored for most of Serbia, while winter in northern part of the country will be warmer with equal probabilities for a dry, normal and wetter winter.



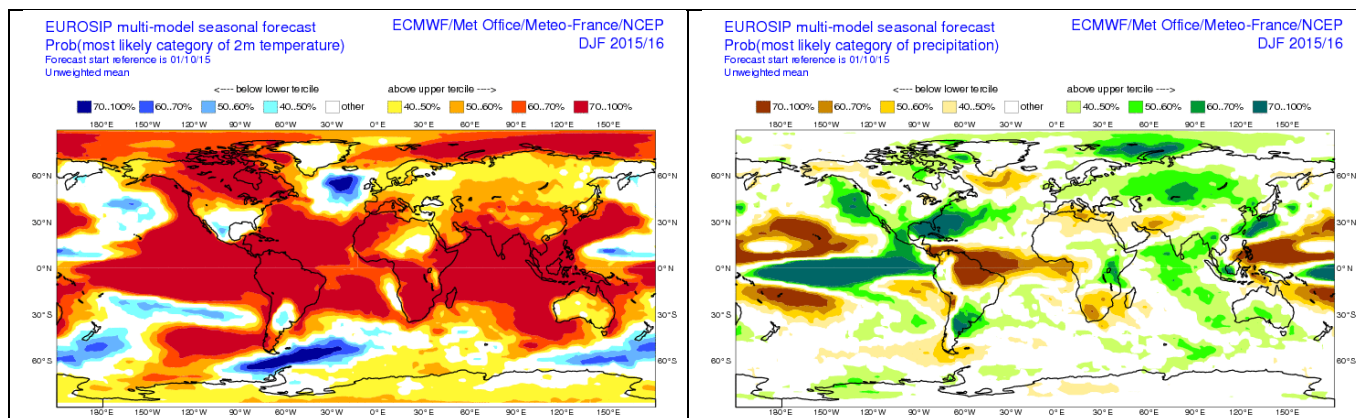
Most of the SEECOF region is likely to have above-normal winter temperature, while probabilities are decreasing from west, south-west toward east. In the region of South Caucasus, in western and some parts of eastern Turkey, as well as along the northern coasts in Eastern Mediterranean there is no predictive signal for winter temperature.

On the other hand, in most of the SEECOF region, there is no predictive signal for winter precipitation. Below-normal winter precipitation is likely for most of the Balkan Peninsula, along the coasts of south Adriatic, coasts of Ionian and Aegean Sea, as well as along the northern coasts of Eastern Mediterranean, while above-normal winter totals are likely for eastern and some parts of south of Ukraine, as well as along the eastern coasts of Black Sea.



CLIMATE OUTLOOK FOR WINTER 2015-2016 SEASON BASED ON EUROSIP SEASONAL FORECAST MODEL OUTPUTS FOR SERBIA AND THE SEE REGION

In most of Serbia there is no signal for winter precipitation sums, aside from eastern part of the country where above-normal conditions are indicated. Above-normal winter temperatures are favored across the entire country. In other words, eastern Serbia will have a milder and wetter winter, while elsewhere winter will be milder.



Most of the SEECOF region is likely to have above-normal winter temperature, with the probability increasing from the west and southwest toward the northeast of the region with the exception of the Eastern Mediterranean and along the southern and northern coasts of Turkey, where there is no predictive signal. In most of the SEECOF region, there is no predictive signal for winter precipitation with the exception of eastern parts of the Carpathians and along the eastern coasts of Black Sea where above-normal conditions are favored and southern parts of Aegean and Eastern Mediterranean Sea with belonging coasts, Israel and Jordan where below-normal conditions are indicated.

CLIMATE OUTLOOK FOR WINTER 2015-2016 SEASON BASED ON RCM-SEEVCCC SEASONAL FORECAST MODEL OUTPUTS FOR SERBIA AND THE SEE REGION

During winter season, positive temperature anomalies are expected across the entire Serbia. Normal winter precipitation sums are favored for most of Serbia, above-normal in easternmost parts and below-normal in south-western parts of the country.

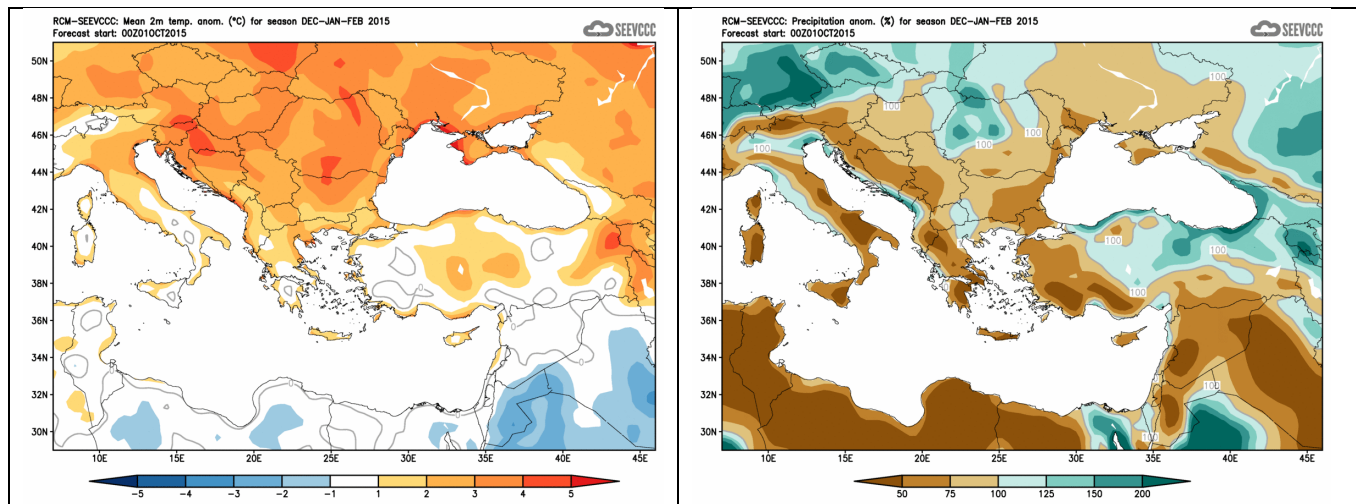


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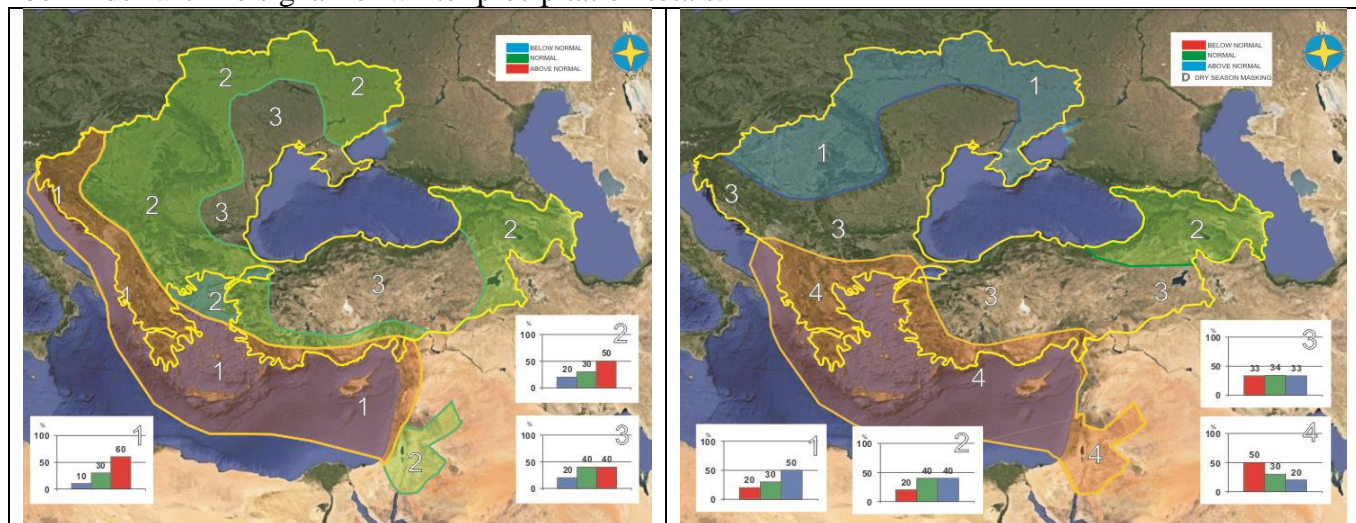


Above-normal winter temperature is likely for most of the SEECOF region while normal temperature conditions are favored for some parts of southern Greece, western continental part of the South Caucasus, Jordan, mountainous regions of Israel and some parts of western and southeastern Turkey.

Average winter precipitation sums are likely for most of the region. Above-average precipitation may occur along the coasts of the Adriatic and Ionian Sea, in the region of South Caucasus, along the southern coasts with hinterland of the Black Sea, as well as in some parts of the northern coasts of Eastern Mediterranean, while below-average conditions are likely for western and south of the Balkans, along the western and northern coasts of Black Sea, along the coasts of Aegean Sea, in Eastern Mediterranean with most of belonging coasts, Jordan, Israel, as well as in western Turkey.

SUGGESTED NHMS SERBIA CLIMATE OUTLOOK FOR 2015-2016 WINTER SEASON FOR SERBIA AND THE SEE REGION

A milder and wetter winter season is expected in the northern parts of Serbia, while elsewhere, it will be milder with no signal for winter precipitation totals.





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Figure 1. Graphical presentation of the winter
2015-2016 temperature outlook

Figure 2. Graphical presentation of the winter
2015-2016 precipitation outlook

The entire SEECOF region is most likely to have above-average temperature. The continental part of Turkey, eastern parts of the Balkan Peninsula, as well as southern and central parts of Ukraine (zone 3 in Figure 1) are least likely to exceed the average temperature. A bit higher probability for above-average conditions is predicted for rest of Ukraine, most of the Balkans, region of South Caucasus and over Carpathians (zone 2 in Figure 1), while the highest probability is favored in other parts of the SEECOF region (zone 1 in Figure 1).

Uncertainties in regional predictions are higher for precipitation than for temperature. Probabilities for above-normal conditions of winter totals are decreasing from northwestern parts (Pannonia Plain, northwestern Carpathians, as well as northern and eastern parts of Ukraine - zone 1 in Figure 2) to eastern part of SEECOF region (South Caucasus and along the northeastern coasts of Turkey - zone 2 in Figure 2). In the southern part of Balkans, along the coasts of southern part of Adriatic Sea, coasts of Ionian, Aegean Sea, Eastern Mediterranean, as well as in Israel and Jordan (zone 4 in Figure 2) below-normal conditions are predicted. In rest of the SEECOF region (zone 3 in Figure 2) the uncertainty is high: probabilities for below-, near- or above- average conditions are approximately equal.