



## CLIMATE OUTLOOK FOR 2018 SUMMER SEASON FOR SERBIA AND THE SEECOF REGION

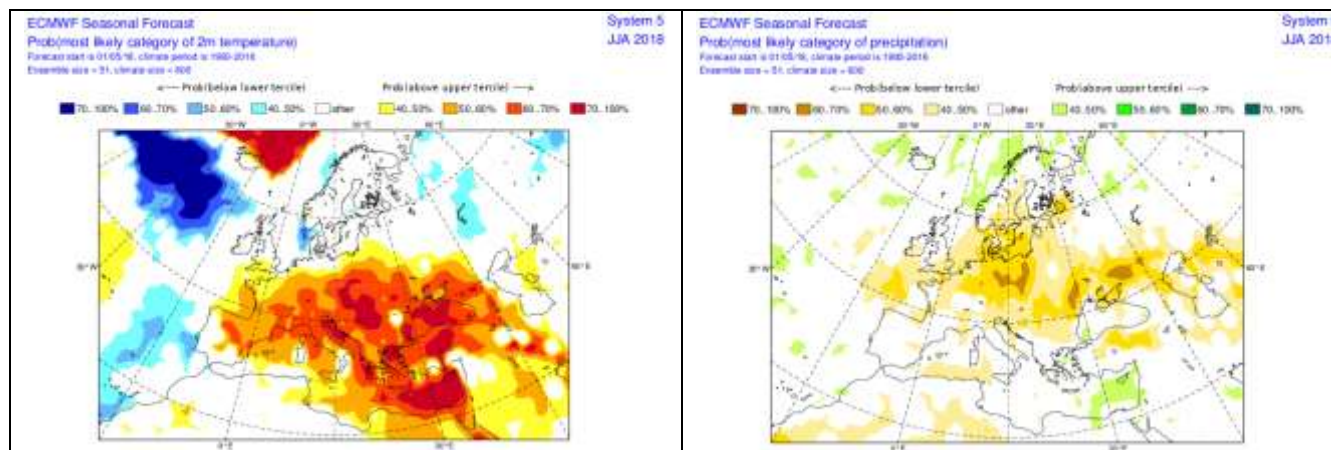
May 21<sup>st</sup>, 2018

### INTRODUCTION

NHMS of Serbia regularly prepares climate outlook for our country on the basis of the ECMWF seasonal forecast model outputs, **but also from the SEEVCCC regional climate model outputs**. In this paper we will extend the scope of our climate outlook and give climate outlook for summer season not only for Serbia, but also for the entire SEECOF region.

### CLIMATE OUTLOOK FOR 2018 SUMMER SEASON BASED ON ECMWF SEASONAL FORECAST MODEL OUTPUTS FOR SERBIA AND THE SEE REGION (Hindcast period 1993-2016)

Summer temperature in Serbia is likely to be above-normal. In most of the country, summer precipitation is likely to be below-normal, while in southwestern part of the country there is equal probability for -below, -near or -above normal conditions. Consequently, most of Serbia will experience warmer and drier summer compared to the average conditions.



In most of the SEECOF region, summer temperature is likely to be above-normal, with probabilities increasing from northeastern toward southwestern and southern parts of the region. Contrastively, along the southeastern coasts of Turkey, there are equal probabilities for near- or above- normal conditions.

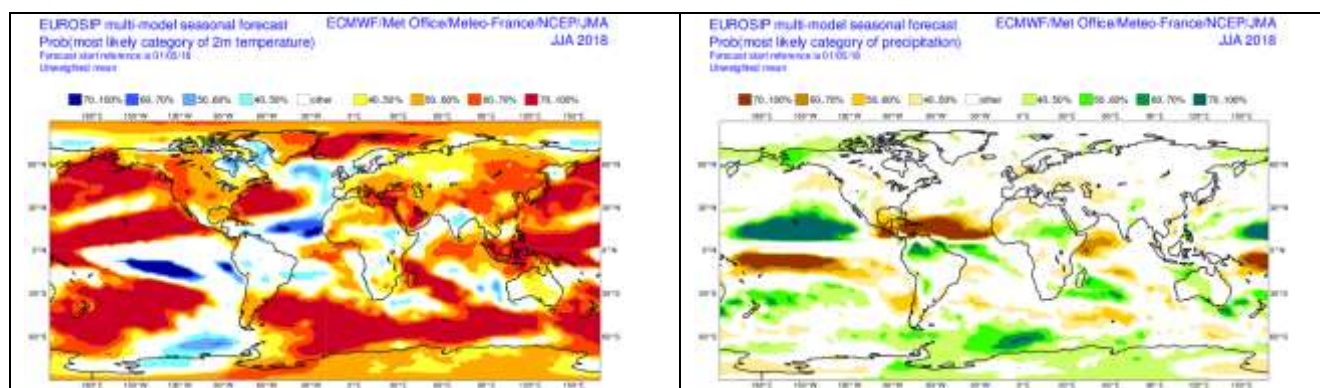
Summer precipitation is likely to be below-normal in most of the SEECOF domain, while in southern parts of the Balkans, along the coasts of the Central and Southern Adriatic Sea and its hinterland, along the western and southern coasts of the Black Sea, as well as South Caucasus region there is no predictive signal for summer precipitation.



Contrastively, in some parts of the Aegean Sea, some parts along the eastern and western coasts of the Black Sea, as well as Eastern Mediterranean summer precipitation is likely to be above-normal.

### CLIMATE OUTLOOK FOR 2018 SUMMER SEASON BASED ON EUROSIP SEASONAL FORECAST MODEL OUTPUTS FOR SERBIA AND THE SEE REGION (Hindcast period 1993-2016)

Summer temperature in Serbia is likely to be above-normal. In the entire country there is no signal for summer precipitation. Consequently, entire Serbia will observe a warmer summer compared to the average conditions.



In the entire SEECOF region, summer temperature is likely to be above-normal, with the probability increasing from northern to the southwestern and southeastern parts of the region. Summer precipitation is likely to be below-normal on the eastern slopes of the Carpathian region, most of Ukraine, along the western coasts of the Black Sea as well as western coasts of the Caspian Sea, while in remainder of the SEECOF region there is no predictive signal.

### CLIMATE OUTLOOK FOR 2018 SUMMER SEASON BASED ON RCM-SEEVCCC SEASONAL FORECAST MODEL OUTPUTS FOR SERBIA AND THE SEE REGION

During summer 2018, positive temperature anomalies are expected in Serbia. In most of the country, summer precipitation sums will be below-normal with the exception of south and southwest of Serbia where totals will be near-normal.

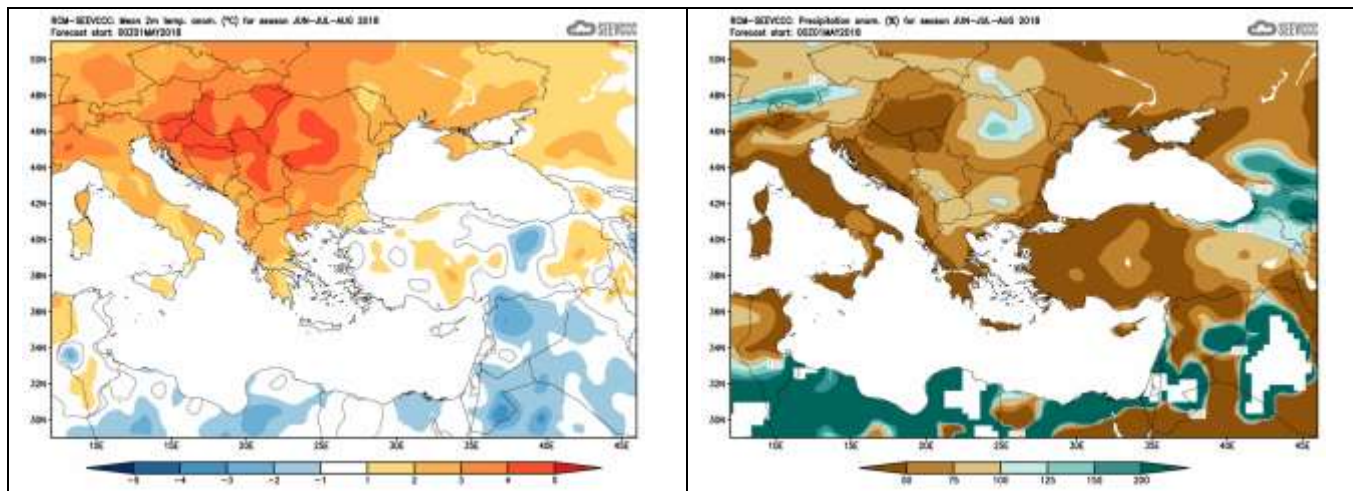


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Summer temperature is likely to be above-normal in Ukraine, Balkan Peninsula, along the coasts of the Adriatic, Ionian, Aegean Sea, some parts of Turkey, as well as in eastern parts of South Caucasus region, while normal conditions are expected in most of the South Caucasus region, Eastern Mediterranean Sea and most of Turkey. Contrastively, below-normal summer temperature is predicted for Jordan and mountainous parts of Israel and the northeast of Turkey.

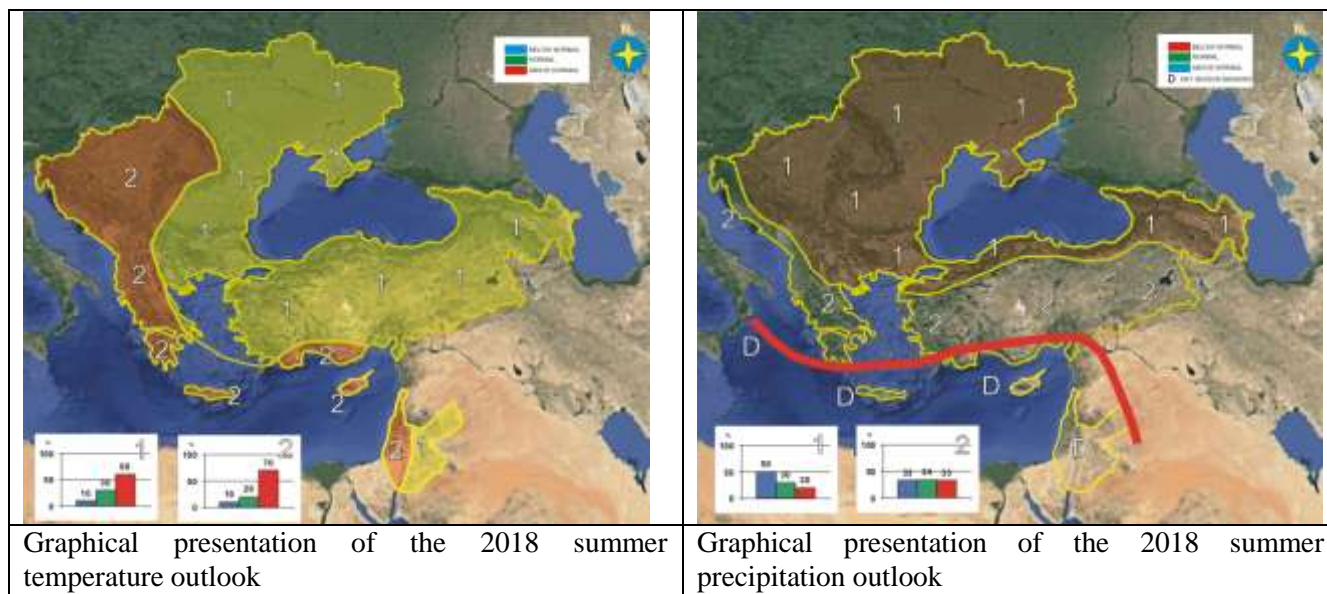
In most of the SEECOF region, summer precipitation is likely to be below-normal. Contrastively, summer precipitation will be below- or near- normal in the Carpathian region, mountainous region in the Central and Eastern Balkans, South Caucasus region, as well as on the east of Turkey, while more precipitation, due to convective activity may affect the Carpathian region, some parts on the east of Turkey, along the southeastern coasts of the Black Sea, in the South Caucasus region, Israel and on the south of the Jordan.





## SUGGESTED NHMS SERBIA - CLIMATE OUTLOOK FOR 2018 SUMMER SEASON FOR SERBIA AND SEE REGION

The entire SEECOF region is likely to experience above-average summer temperature. Probability for above-average summer temperature is increasing across the areas spreading from northern-northeastern toward western and southern parts of the SEECOF region. Probability for exceeding average summer temperature is lower in eastern part of the Balkan Peninsula, Ukraine, along the coasts of the Aegean and Black Sea, most of Turkey, South Caucasus region as well as in Jordan (zone 1 in Figure 1), while probability for above-average conditions is highest for the Pannonia Plain, Central and Western Balkans, most of Greece, along the coasts of Adriatic, Ionian and Eastern Mediterranean Sea with belonging coasts, as well as in Israel (zone 2 in Figure 1). The generalized relatively high warm signal is probably partly due to the background climatic warming trend.



Uncertainties in regional predictions are higher for precipitation than for temperature. Summer precipitation sums in most of the SEECOF region (zone 1 in Figure 2) are likely to be below-average, with the exception of the coasts of the Adriatic, Ionian and Aegean Sea with belonging coasts and hinterland, on the south of Balkan Peninsula, as well as continental part of Turkey (zone 2 in Figure 2) with approximately equal probabilities for below-, near- or above normal-averages. It should be noted that certain parts of the country, particularly mountain regions may observe near- or above- normal summer precipitation sums due to the episodes of enhanced convection accompanied by heavy precipitation. Due to dry season masking, it is not possible to forecast summer precipitation totals for the Eastern Mediterranean with belonging coasts and hinterland, Crete as well as in Israel and Jordan.