VERIFICATION OF THE SEECOF -35 SUMMER 2026 CLIMATE OUTLOOK FOR REPUBLIC OF NORTH MACEDONIA COMPARED TO THE 1981-2010 BASE PERIOD

Hydrometeorological Service of Republic of North Macedonia prepares regular seasonal climate analysis, based on the products of SEECOF seasonal forecasts and the forecast products from the SEVCCC. The present analysis is for the summer season 2026 (June, July and August), and it is based on the averages of the climatological period 1981-2010.

➢ SUMMER 2026

The mean seasonal air temperature during summer 2026 ranged between 18.8°C in Mavrovo to 26.8°C in Gevgelija. Spatial distribution of the mean seasonal air temperature is shown on Figure1. The mean air temperatures anomaly was from 1.4°C in Berovo to 2.8°C in Skopje. The anomaly is positive for the whole territory (Figure 2).

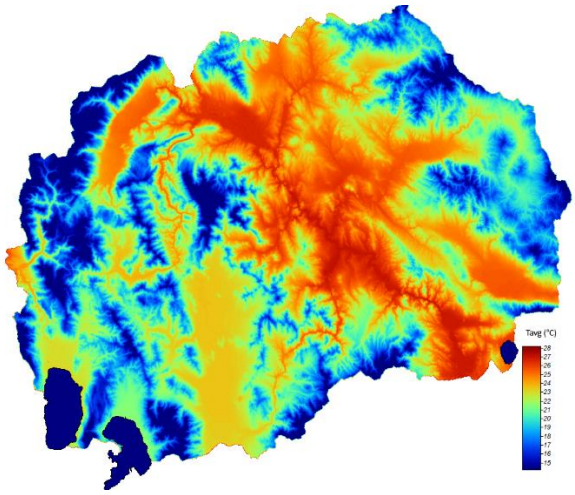


Figure 1: Spatial distribution of the mean seasonal air temperature (°C) during summer 2026



Figure 2: Spatial distribution of the mean seasonal air temperature anomaly (°C) during summer 2026

The mean maximum seasonal air temperature anomaly was from 2.1°C in Prilep to 4.4°C in Mavrovo. The mean minimum seasonal air temperature anomaly was from 0.3°C in Berovo to 1.9°C in Skopje. The highest daily air temperature during summer 2026 was measured 41.6°C observed on 22nd of August in Gevgelija. The lowest air temperature during summer 2026 was 4.6°C observed on 25th of July in Berovo.

According to percentile calculation method, the summer season 2026 was classified as extremely warm on the mountainous west part and in the capital city and very warm in other regions (Table1).

Rainfall totals were variable for this summer season. There were a lot of spatially isolated events with stormy weather, intensive precipitation, thunderstorms, and heavy winds. The wettest day was 24th of August with 43.6mm measured in Berovo.

According to percentile calculation method, this summer precipitation regime was classified as very dry to normal (Table1).

Meteorological station	Temperature	Precipitation
Berovo	very warm	normal
Kriva Palanka	very warm	dry
Stip	very warm	dry
Strumica	very warm	very dry
Demir Kapija	very warm	dry
Gevgelija	warm	normal
Skopje	extremely warm	dry
Prilep	very warm	dry
Bitola	very warm	normal
Ohrid	very warm	dry
Mavrovo	extremely warm	very dry

Table1: Air temperature and precipitation classification in Republic of North Macedonia for summer 2026 using percentile method compared to 1981-2010 base period

The values of distribution of tercile for the air temperature and the precipitation sums are shown in table 2 and 3, respectively.

Air Temperature (°C)	summer	1981-2010	
	2026	33	67
Berovo	19.6	17.8	18.6
Kriva Palanka	21.2	19.3	20.0
Stip	25.6	23.0	24.0
Strumica	25.4	23.0	23.8
Demir Kapija	26.3	24.1	24.9
Gevgelija	26.8	25.0	26.0
Skopje	26.1	23.0	23.8
Prilep	23.3	21.3	22.1
Bitola	23.4	21.4	22.0
Ohrid	22.4	20.4	21.0
Mavrovo	18.8	15.9	16.7

Table 2: Values of distribution of tercile for air temperature for period 1981-2010

Precipitation sums (mm)	summer	1981-2010	
	2025	33	67
Berovo	146.3	138.8	176.9
Kriva Palanka	114.6	132.4	207.3
Stip	49.4	87.6	131.9
Strumica	53.6	85.1	132.6
Demir Kapija	44.6	75.0	98.0
Gevgelija	99.4	61.9	136.0
Skopje	54.4	86.8	136.7
Prilep	62	75.3	135.8
Bitola	135.2	77.6	126.4
Ohrid	50.8	65.6	112.6
Mavrovo	77.1	103.2	168.4

Table 3: Values of distribution of tercile for precipitation for period 1981-2010

The SEECOF-35 forecast product for the mean temperatures for summer season placed Republic of North Macedonia in a zone 1, which was likely to experience above average summer temperatures (10; 30; 60). Forecast for the precipitation for JJA 2026 categorized our country in zone 2, with an equal probability for summer precipitation (33; 34; 33).

A general verification of the model for summer season is that the model was **efficient** concerning the air temperature and precipitation.
Find also below a table presenting the general anomalies of SEECOF products and extreme events of the recorded summer weather.

Country	Seasonal temperature (JJA)		Seasonal precipitation (JJA)		High Impact Events (JJA)
	Observed	SEEVCCC climate outlook for temperature	Observed	SEEVCCC climate outlook for precipitation	
REPUBLIC OF NORTH MACEDONIA	Above average	Above average (10, 20, 70)	Very dry to normal	Normal (33, 34, 33)	A lot of spatially isolated events with stormy weather, intensive precipitation, thunderstorms, and heavy winds but the extremes are not exceeded.