

Analysis of the 2014 summer season for Macedonia compared to 1981-2010 base period

Temperature

Average summer (June, July and August) air temperatures in Macedonia were mainly around normal value for the 1981-2010 base period.

During summer 2014, mean air temperature ranged between 15.6°C in Lazaropole and 25.6°C in Gevgelija. The departure of the mean temperature from the normal for the 1981-2010 base period ranged from -0.6°C in Kriva Palanka to 0.3°C in Gevgelija and Bitola.

Station	Departure (°C)			
	June	July	August	Summer
OHRID	-0.4	-0.8	0.8	-0.1
BEROVO	-0.2	-0.4	0.4	-0.1
D.KAPIJA	-1.0	-0.1	0.4	-0.2
GEVGELIJA	0.1	0.0	0.8	0.3
K.PALANKA	-0.7	-0.9	-0.2	-0.6
LAZAROPOLE	-0.3	-1.3	0.5	-0.4
PRILEP	-0.4	-0.4	0.0	-0.3
SKOPJE	-0.8	-0.6	0.1	-0.4
STIP	-0.9	-0.6	0.3	-0.4
STRUMICA	-0.5	-0.3	0.3	-0.2
BITOLA	-0.2	0.1	0.9	0.3

Table 1. Departure of the mean temperature (°C) from the normal for the 1981-2010 base period

Three-month course of the mean, maximum and minimum daily air temperature in Kriva Palanka, Gevgelija and Bitola during summer 2014 is shown in figures 1, 2 and 3.

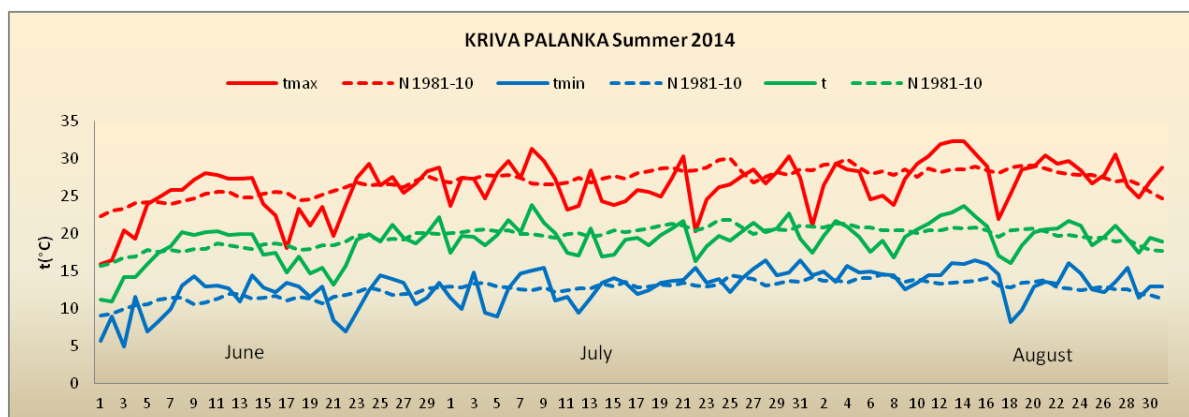


Figure 1. Three-month course of the mean, maximum and minimum daily air temperature in Kriva Palanka during summer 2014

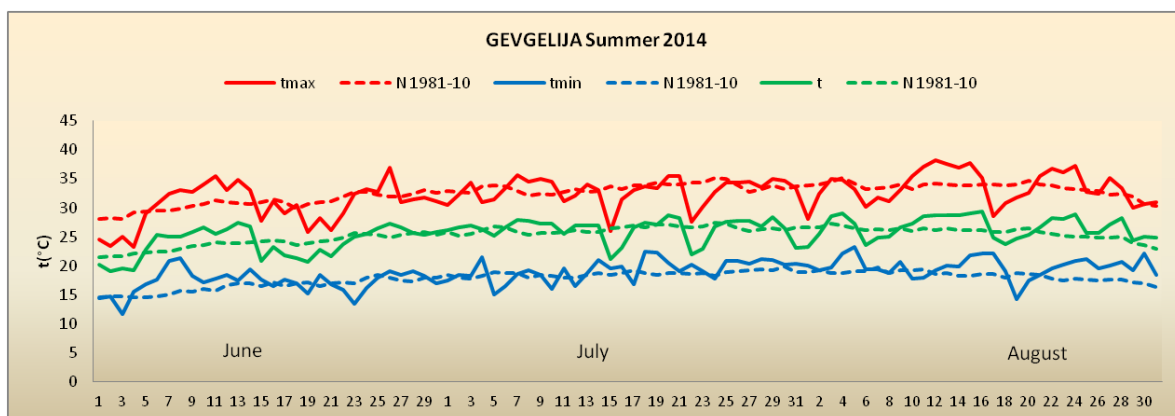


Figure 2. Three-month course of the mean, maximum and minimum daily air temperature in Gevgelija during summer 2014

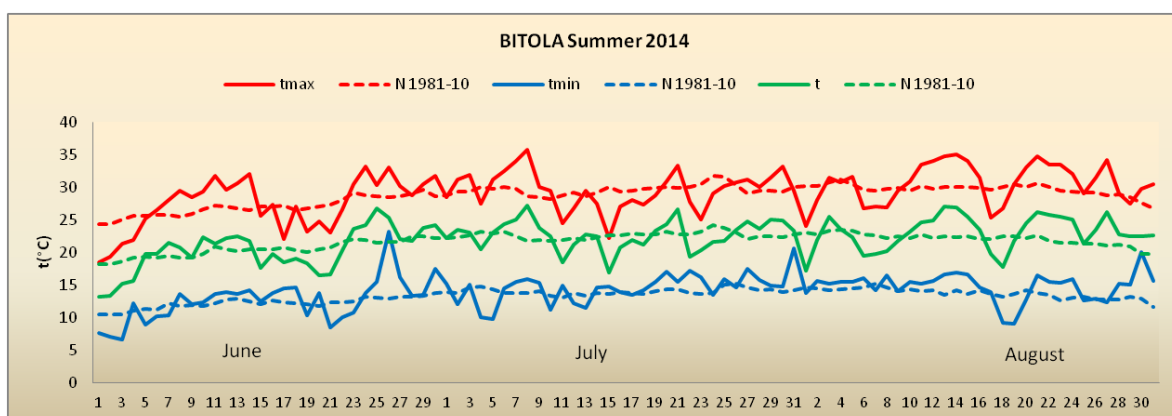


Figure 3. Three-month course of the mean, maximum and minimum daily air temperature in Bitola during summer 2014

According to the percentile method, mean air temperature during summer 2014 was in the normal category in the entire Macedonia.

The highest daily temperature during summer 2014, measuring 38.6 °C was observed on 12 August in Demir Kapija, while the lowest air temperature measuring 2.3 °C was observed on Lazaropole on 3rd of June.

Precipitation

During the summer 2014, precipitation sums were above the average compared to the normal for the 1981-2010 base period across entire Macedonia with the exception of Lazaropole. Total precipitation ranged from 96.8 mm in Ohrid to 329.6 mm in Berovo. Precipitation sums ranged between 96% in Lazaropole and 201% in Berovo compared to the normal.

According to the percentile method, precipitation sums were in the following categories: wet and very wet across most of Macedonia, extremely wet in the eastern area and in the normal category in south, southwestern and western areas.

Station	Departure (%)			
	June	July	August	Summer
BEROVO	87	284	262	201
BITOLA	140	176	89	137
D.KAPIJA	137	147	201	157
GEVGELIJA	133	145	72	120
K.PALANKA	137	225	141	164
LAZAROPOLE	92	164	19	96
OHRID	133	145	7	101
PRILEP	81	190	201	153
SKOPJE	194	127	133	154
STIP	160	129	83	128
STRUMICA	113	95	177	125

Table 2. Departure of the precipitation (%) in relation to the climatological standard normal (1981-2010 base period)

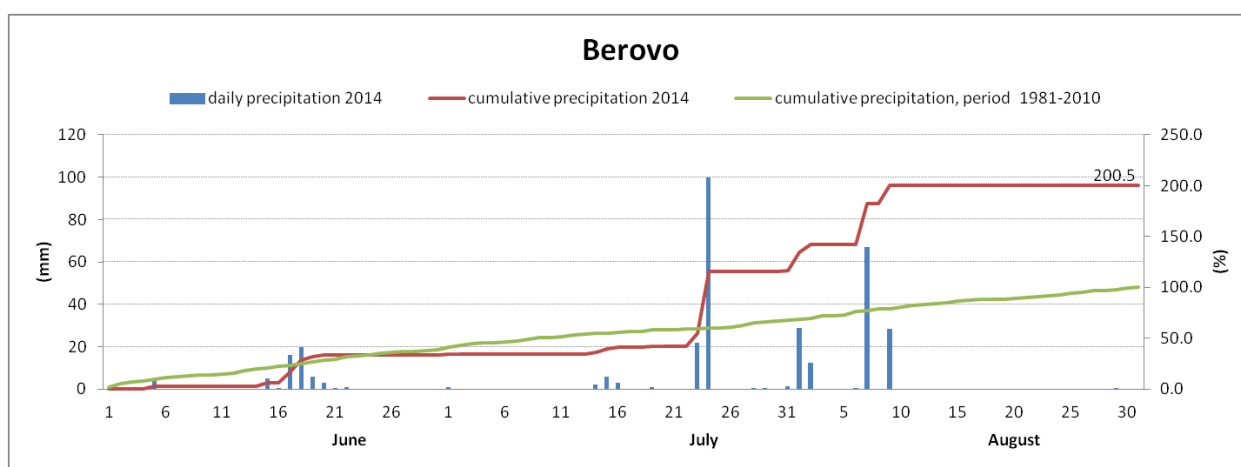


Figure 4. Cumulative sums of precipitation for Berovo

High impact events during summer 2014

Record-breaking summer precipitation sums in Berovo (329.6 mm). During July extremely wet conditions were observed in Berovo, 284% from the average monthly precipitation sums. July was the second and August the third wettest month ever record in Berovo. The highest daily precipitation amount of 99.8 mm during July was registered in Berovo on 24 July thereby breaking the previous daily precipitation record for July.