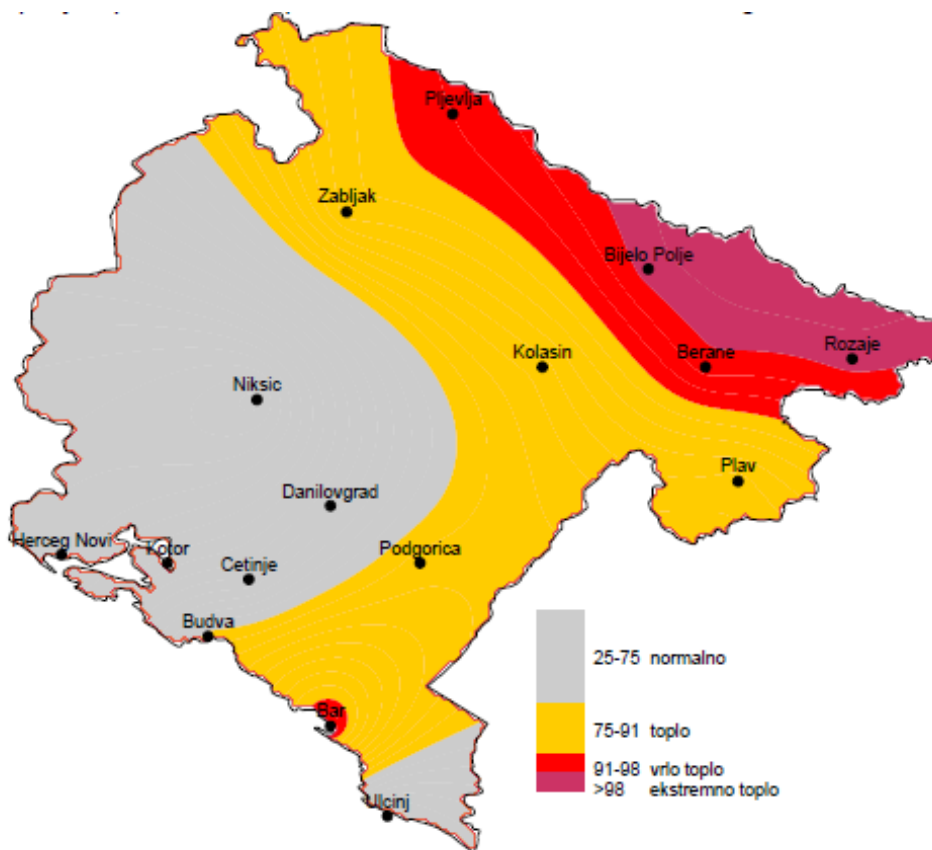# Analysis of temperature and precipitation for the winter 2012/2013 in Montenegro

> ➢ **According to the percentiles, temperature was in categories from "normal", to "extremely warm";**
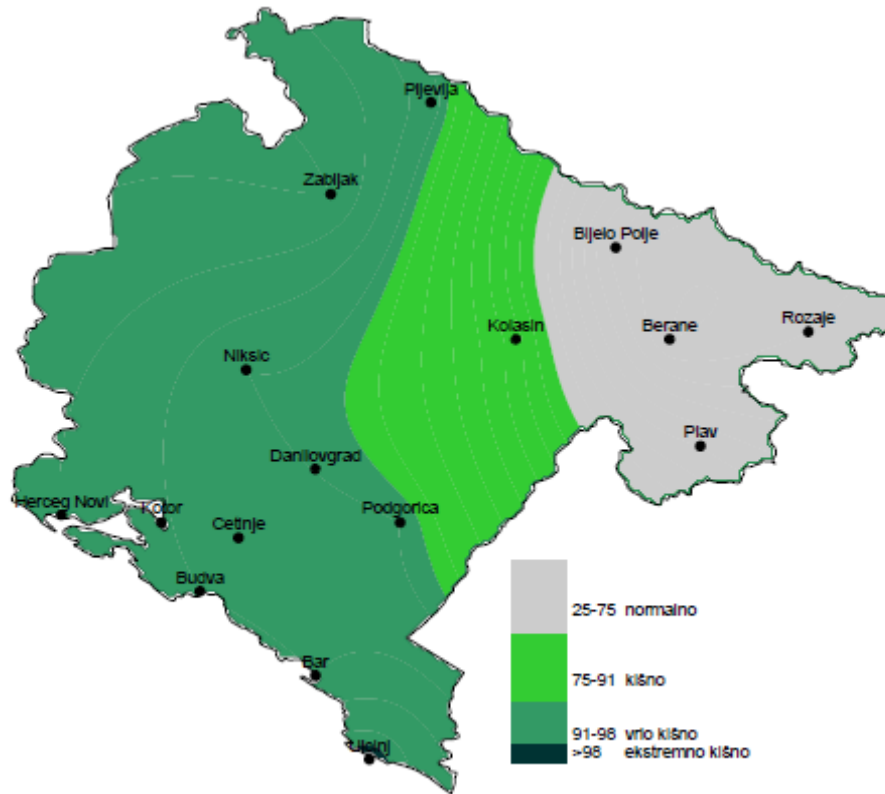> ➢ **Precipitation was in categories from "normal" to "extremely wet" (area of Ulcinj).**

The Average temperature was in the range from -1.7 ^{0}C in Žabljak to 10.3 ^{0}C in Bar (in Podgorica was 7.3 ^{0}C). The average temperature in Rožaje of 0.7 ^{0}C was the highest ever recorded in Rožaje's station.

With respect to the 1961 – 1990, the range of anomalies was from -0.1 ^{0}C in Nikšić to 3.2 ^{0}C in Bijelo Polje. The winter was warmer in Podgorica for 0.8 ^{0}C.

Figure 1. *Percentile's distribution of temperature for the winter season 2012/2013*

The total average precipitation was in the range from 230 mm in Rožaje to 1905 mm in Cetinje (886 mm was in Podgorica, that is 154% of average value for the winter). During this winter, the maximum height of the snow cover 148 cm was recorded on the 18th February.

***Figure 2.** Percentile's distribution of precipitation for the winter season 2012/2013*

Impact of snow and rain

1. During the period from 09/12-17/01/2013 Montenegro was exposed to snow falls and strong wind gust, while the temperature decreased rapidly. Learning from experience in the winter 2011/2012, all responsible staff for managing in emergency situation was ready to act.

2. Period from the **14th to the 18th** January was characterized by rain, icing and snow fall. There was a high risk of floods in the southern part of Montenegro. Due to the strong blizzard in the northern region, the main road Podgorica – Kolašin was closed for the tracks, as well as the road Rožaje-Kula and Šavnik –Žabljak.

Foto: BETA, Arhiva

On the 16th January, heavy wet snow, storms and lightning caused breaks in electrodistribution. Because of that, villages and towns in the northern region were longer without electricity. Impassable roads with 1 to 2 m snow height and snow covered traffic signs along the roads, made thise occasion protracted.