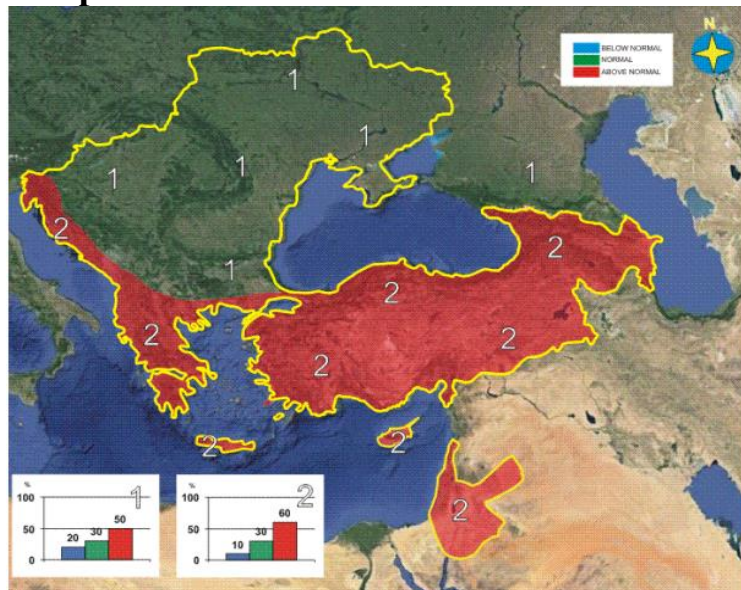


VERIFICATION OF THE SEECOF-30 WINTER 2023-24 CLIMATE OUTLOOK FOR THE TERRITORY OF UKRAINE (1991-2020 BASE PERIOD)

Temperature



According to the SEECOF-30 outlook for the the winter 2023-24 in Ukraine, seasonal temperature was expected warmer (upper tercile) with probability 50% and normal with probability (30%) compared to the 1991–2020 climatological base period.

Climatological monitoring showed that the winter 2023-24 was warm in the entire Ukraine, based on the tercile method (Figure 1). The outlook for a warm winter was correct.

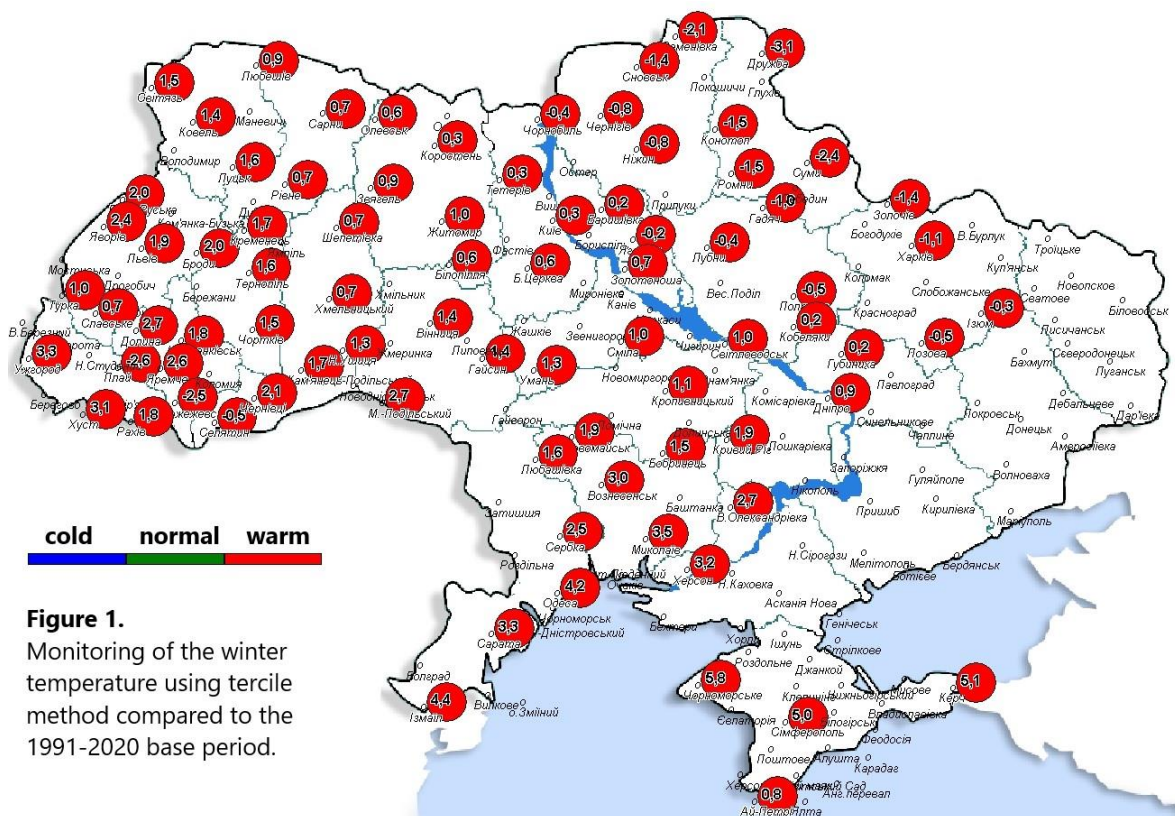
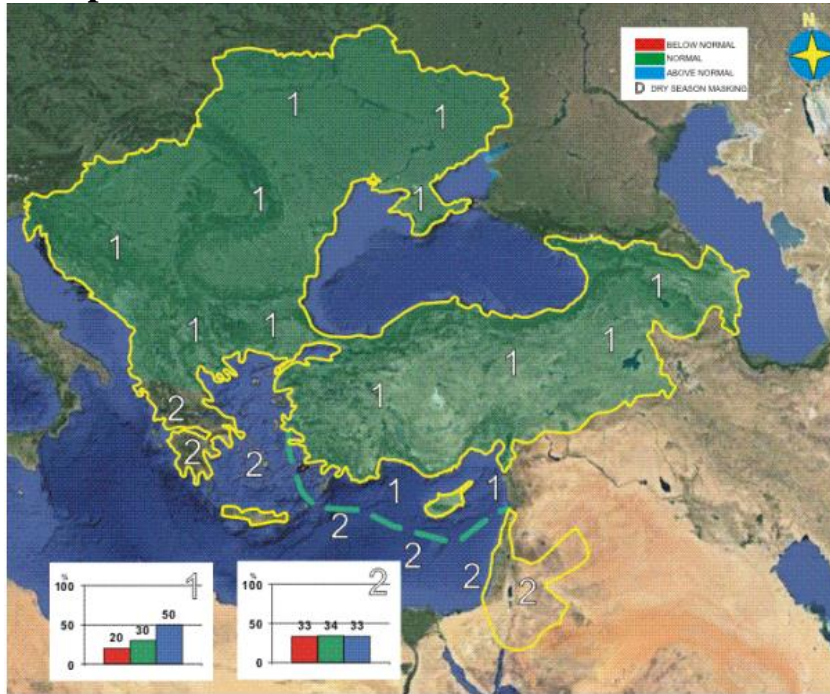


Figure 1. Monitoring of the winter temperature using tercile method compared to the 1991-2020 base period.

Note: Tercile analysis of meteorological elements was performed on the basis of the data from 81 meteorological stations.

Precipitation



The SEECOF-30 climate outlook indicated above normal precipitation (50% probabilities) and normal precipitation (30% probabilities) for the territory of Ukraine.

Monitoring of precipitations showed wet and normal conditions in most of the country (Figure 2). Dry conditions were fixed only in the southwestern part of Ukraine based on the tercile method with 1991–2020 climatological base period.

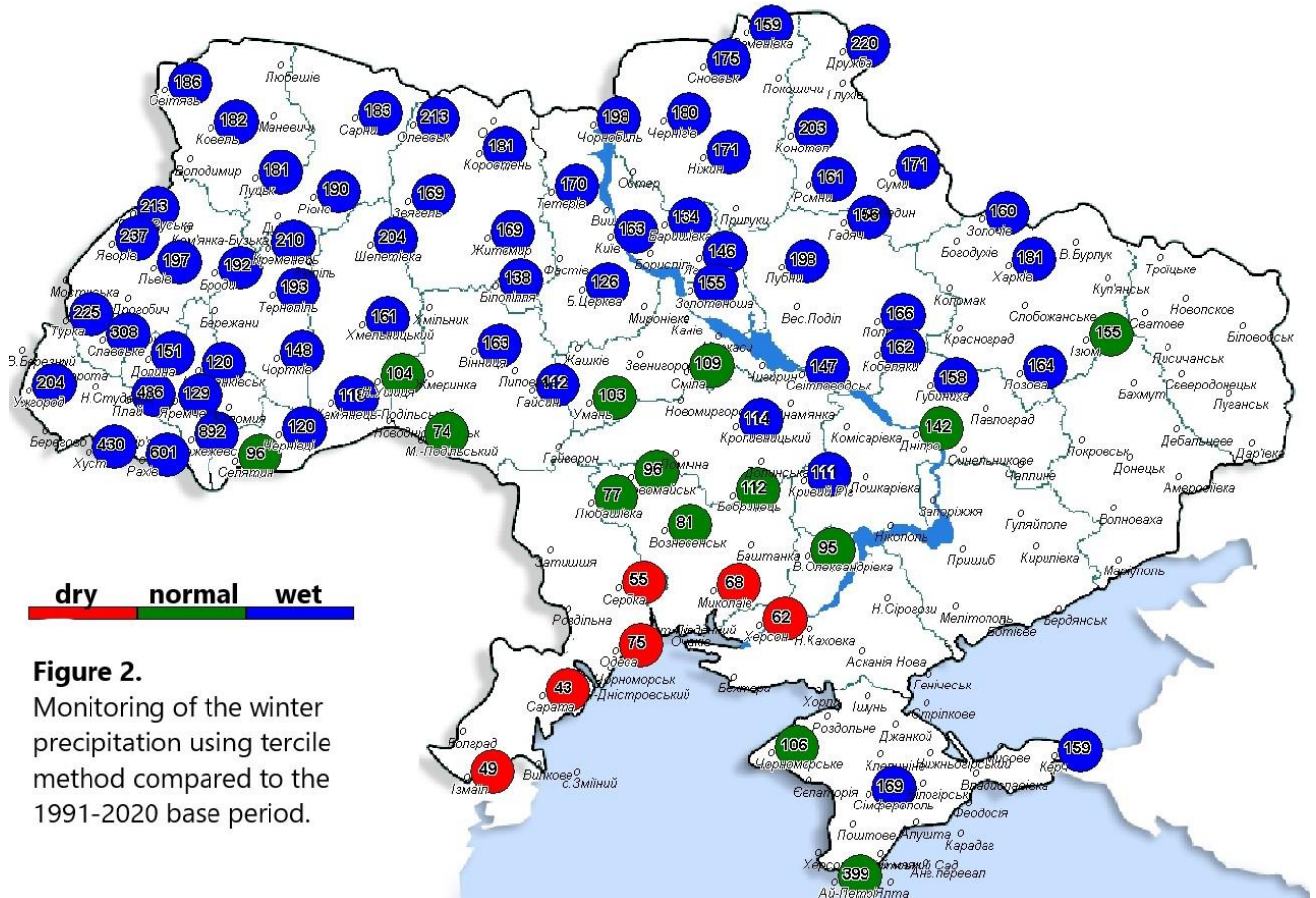


Figure 2. Monitoring of the winter precipitation using tercile method compared to the 1991-2020 base period.

Assessment of the SEECOF-30 Climate outlook for winter 2023-24

Country	Seasonal Temperature (DJF)		Seasonal Precipitation (DJF)		High impact Events
	Observed	SEECOF-30 climate outlook	Observed	SEECOF-30 climate outlook	
Ukraine	above	above	<p>above (76%)</p> <p>normal (17%)</p> <p>below (7%)</p>	above	<p>Meteorological extraordinary phenomena were observed</p> <p>In December 01-02th, 13th, 21-22th heavy rain and snowfall (25-80 mm precipitation per day) in Carpathian mountains in Ivano-Frankivsk and Zakarpattia regions. 24-25th - heavy ice (diameter 60 mm) in mountains in Zakarpattia region.</p> <p>In January were recorded 8-9th heavy snowfalls and blizzard (30 mm and wind gusts of 15 m/c for 14 hours) in Odesa region, 7-12th heavy ice (20-30 mm) in Kropyvnytskyi and Dnipro region 24th strong wind (gusts 25 m/c) in Ivano-Frankivsk region.</p> <p>In February were recorded 5th - strong wind (gusts 25 m/c) in Rivne region and 9th - strong wind 40 m/c in mountains in Zakarpattia region. Unfavorable weather conditions caused loss power, telecommunications, utilities and transport.</p> <p>February was the warmest in the western, southern, central parts and one of the warmest in the northern and eastern parts of Ukraine for the entire observation period. The average monthly temperature was +1..+7°C, that is 4-7°C higher than the 1991-2020 norm.</p>