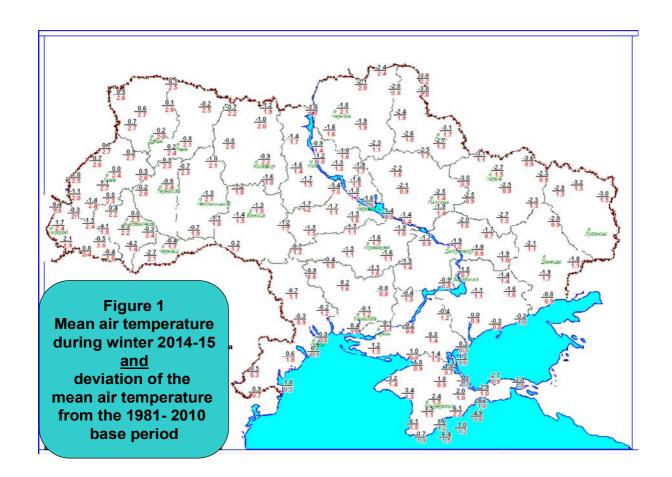
# VERIFICATION OF THE SEECOF-12 WINTER 2014-2015 CLIMATE OUTLOOK FOR THE TERRITORY OF UKRAINE COMPARED TO THE 1981-2010 BASE PERIOD

## **Temperature**

According to the Consensus statement of SEECOF-12, mean winter seasonal temperature in Ukraine was expected to be: warmer than average (temperature in the upper tercile) with 35% probability, average with 35% probability and below average with 30% probability, compared to the 1981–2010 climatological base period.

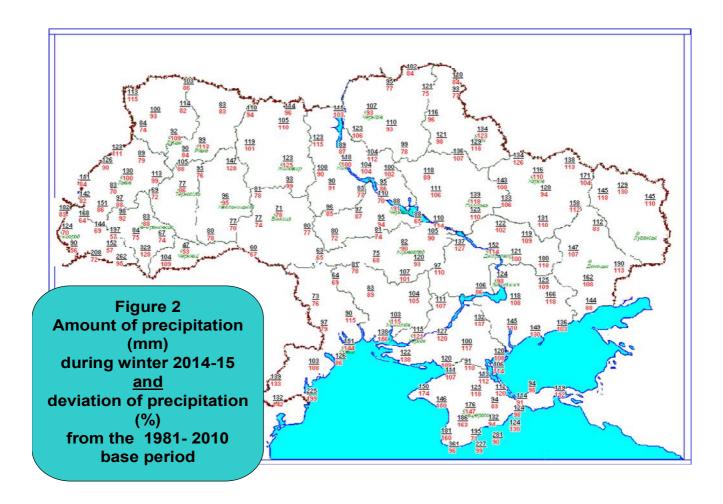
Based on the meteorological monitoring, the deviation of the mean air temperature from the average 1981-2010 base period during winter 2014-15 ranged from +0.1..0.5°C in the south of the Odessa region to +2.8°C in Lutsk of the Volyn region and in the highlying areas from +1.4°C to +2.4°C in Ukrainian Carpathians and from +1.2°C to +1.9°C in Crimean mountains (*Figure 1, lower figure*). Most stations the deviation of the mean air temperature is +1..2°C. Negative deviations were not recorded on the territory of Ukraine.



# **Precipitation**

The SEECOF-12 climate outlook indicated the probabilities for below, near or above-average conditions were expected to be approximately equal to the territory of Ukraine.

Monitoring of precipitation showed normal summer conditions across most of Ukraine (*Figure* 2). Precipitation were in the range from 47 mm (53%) to 225 (199%) and 329 mm (128%) in Ukrainian Carpathians. The least amount of rainfall recorded in Chernivtsi and largest – in Vylkove, Odessa region and Pozhezhevska, Ukrainian Carpathians. In most of the Ukraine winter precipitation were in the range 80..120% relative to the average values of the base period 1981-2010.

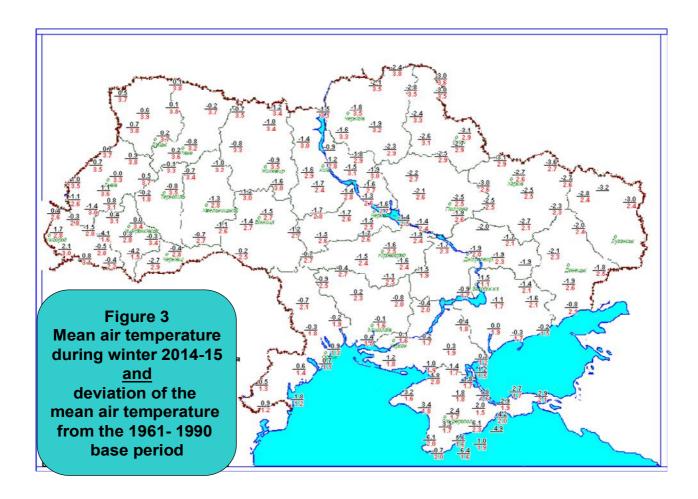


# Analysis of the 2014 summer season for Ukraine compared to 1961-1990 base period

#### **Temperature**

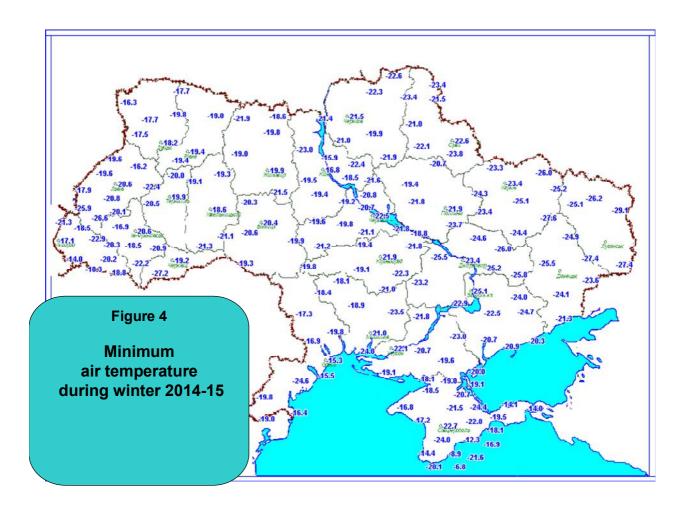
During winter 2014-15, mean air temperature ranged between -3.6°C in the Kharkiv region and +6.4°C in the Crimea region and in the mountain areas from -1.5°C to -4.2°C in Ukrainian Carpathians and from -0.7°C to 1.0°C in Crimean mountains (*Figure 3*, *upper figure*)

The deviation of the mean air temperature from the normal1 for the 1961- 1990 base period during winter 2014-15 ranged from 1.1°C in the south (Odessa, Crimea regions) to 3.9°C in the north (Volyn, Chernihiv regions) and in the high-lying areas from 1.5°C to 2.9°C in Ukrainian Carpathians and 2°C in Crimean mountains (*Figure 3, lower figure*).



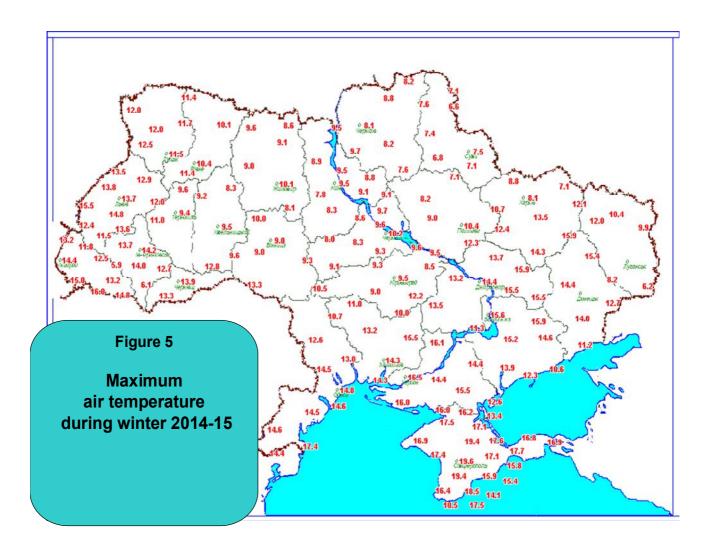
**The lowest (minimum) air temperature** during the winter of 2014-15 (*Figure 4*) ranged between -29.1°C in Belovodsk, Luhansk region (east of country) 1.01.2015 and -6.8°C in Yalta, Crimea (south of country) 7.01.2015.

The coldest period was 5-9 January 2015 but record low temperature was not registered on these days. The severe frost -30-35°C is considered very dangerous phenomenon for the territory of Ukraine. This was not observed during the winter 2014-15. During the winter there were several periods of minimum temperature of -20-29°C, but they were not long and did not cover the entire country.

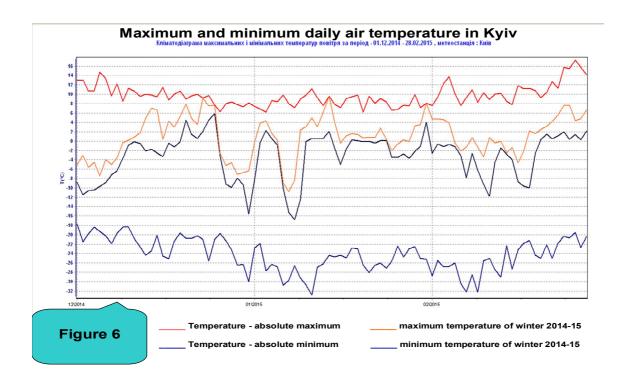


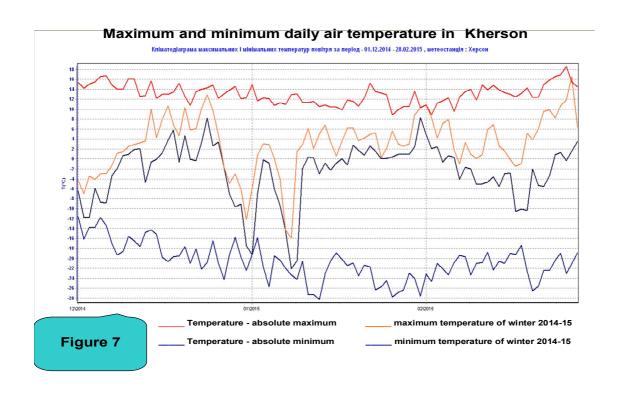
**The highest (maximum) air temperature** during the winter of 2014-15 (*Figure 5*) ranged between 6.6°C in Hlukhiv Sumy region (20.12.2014) and 19.6°C in Simferopol Crimea (27.02.2015).

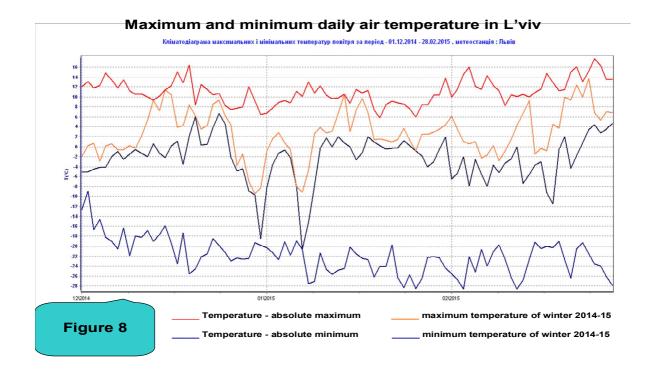
Warmest period was 23-25 December, when were increased (0.2-3.3°C) absolute maximum temperature for this day for the entire observation period in most regions of Ukraine. During the winter thaw periods were long and frequent.

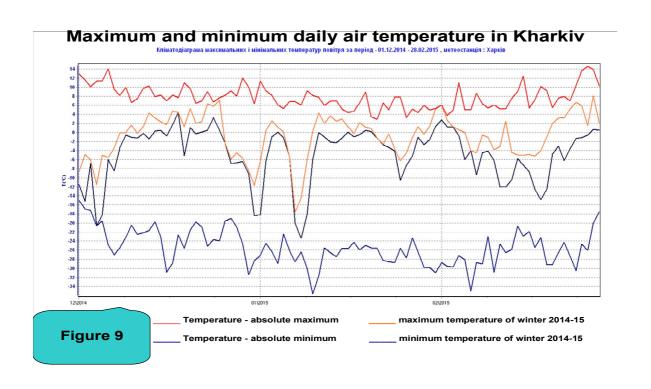


Three-month course of the mean, maximum and minimum daily air temperature in Kyiv (north), Kherson (south), L'viv (west), Kharkiv (east) during winter 2014-15 (Figure 6, 7, 8, 9)









## **Precipitation**

During winter 2014-15, precipitation sums were close to the average values (compared to the normal for the 1961 - 1990 base period) in most of Ukraine with the exception Chernivtsi (46%) and Vylkove, Odessa region (170%). (*Figure 10*).

The maximum daily amount of precipitation of 69 mm was registered in Vylkove, Odessa region on 29-th of December. The amount of 329 mm observed in Pozhezhevska of Ivano-Frankivsk region (Carpathians) was the record breaking precipitation total registered during winter 2014-15.

