

Country: Turkey

Institute: Turkish State Meteorological Service

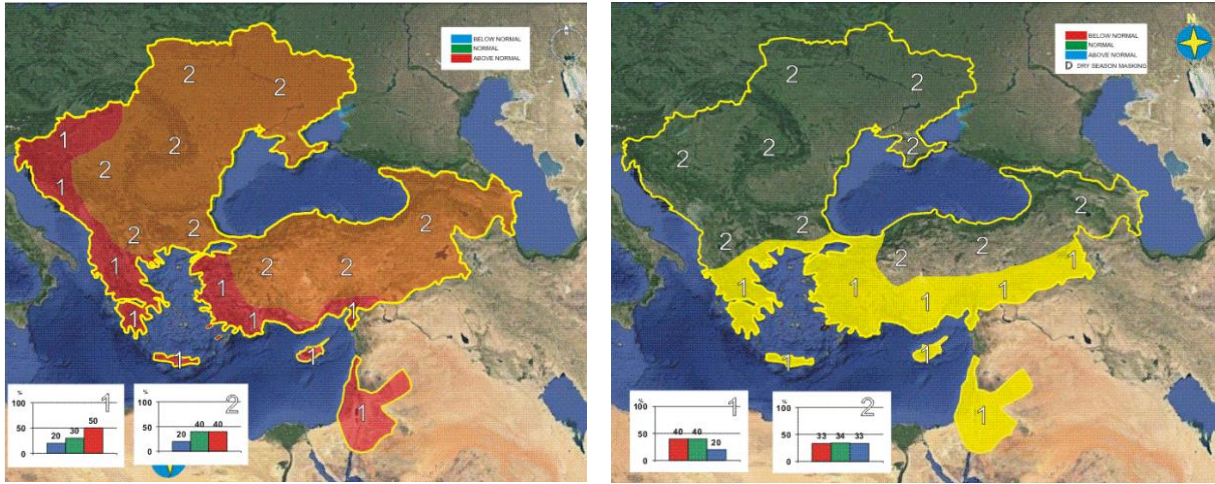
Name: Hüdaverdi Gürkan

E-mail: hgurkan@mgm.gov.tr

Assessment of the seasonal forecast for the winter season

DJF 2021-2022

1. SEECOF-26 climate outlook for 2021/22 winter season:



According to the SEECOF-26 consensus, the statement temperature was expected to be near or above normal for most parts of the country, for the precipitation was expected below normal for southern and western parts of Turkey and there was no clear signal for the other parts of the country.

2. Analysis of 2021/22 winter season:

The reference period is 1991-2020.

Turkey's 1991-2020 winter mean temperature is 3.9 °C. The mean temperature of 2021/22 winter season was 4.5 °C and 0.6 °C above seasonal normal.

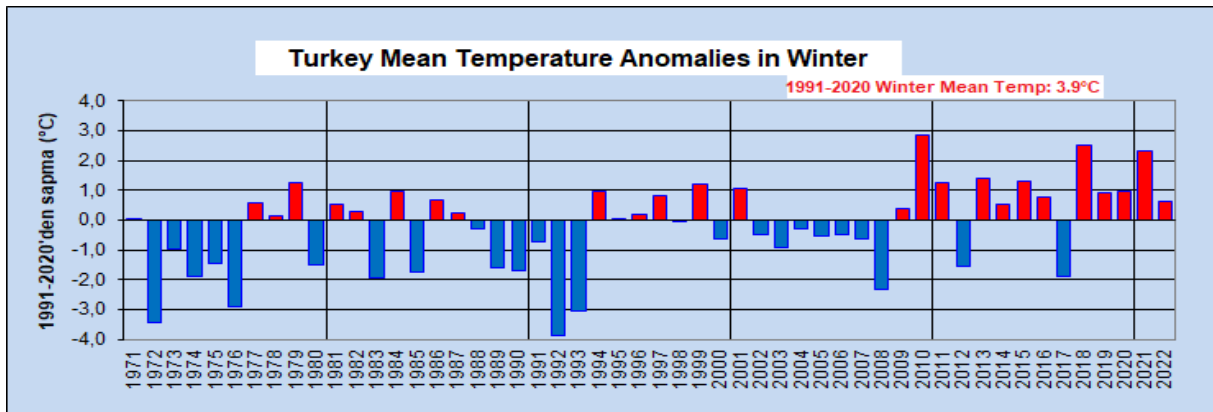


Figure 1. Turkey Mean Temperature Anomalies in 2021/22 Winter Season

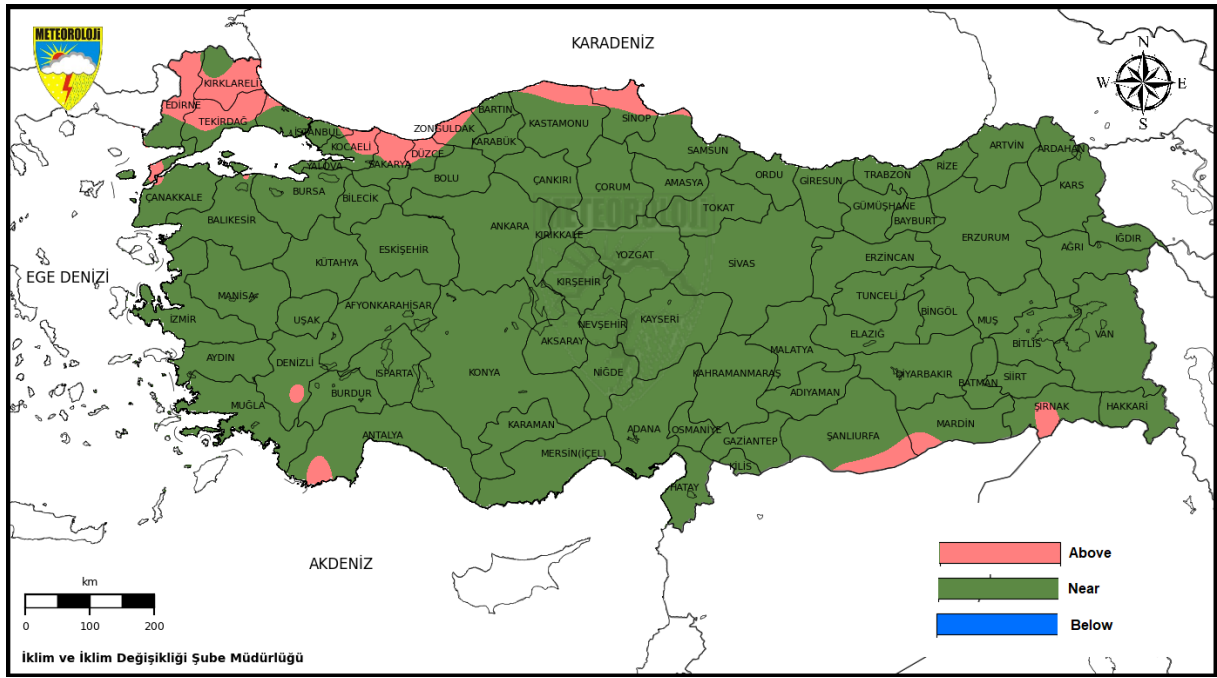


Figure 2. Turkey Mean Temperature Anomalies in 2021/22 Winter Season

The temperature was observed above normal almost all over the country except the eastern part of Turkey.

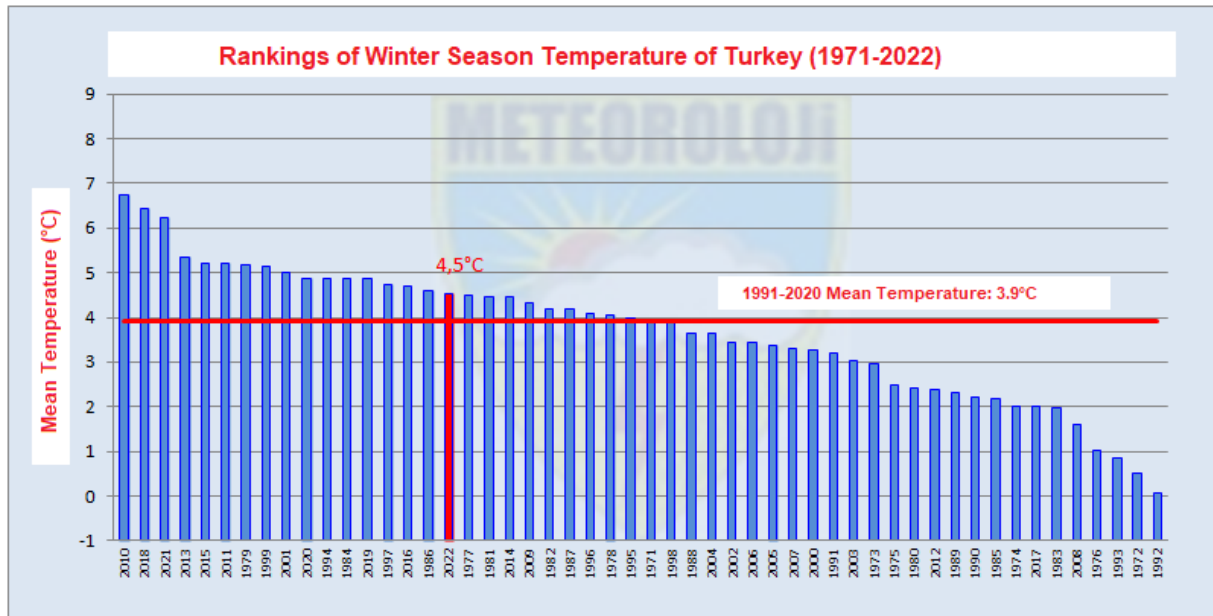


Figure 3. Rankings of the winter season temperature of Turkey (1971-2021)

The winter season of 2021/22 marked as the 17th warmest winter in 51 years period (1971-2022).

Precipitation:

Turkey's 1991-2020 winter season mean total precipitation is 205.3 mm. The mean total precipitation of 2021/22 winter season was 232.9 mm and % 13 above normal.

In General, precipitation was;

- Precipitation was below normal in the southeastern and northeastern parts of the country.
- The mean total precipitation was **above normal more than 30 %** in the Mediterranean coastal parts,
- The mean total precipitation was **below normal more than 30 %** in the southeastern part of Turkey.

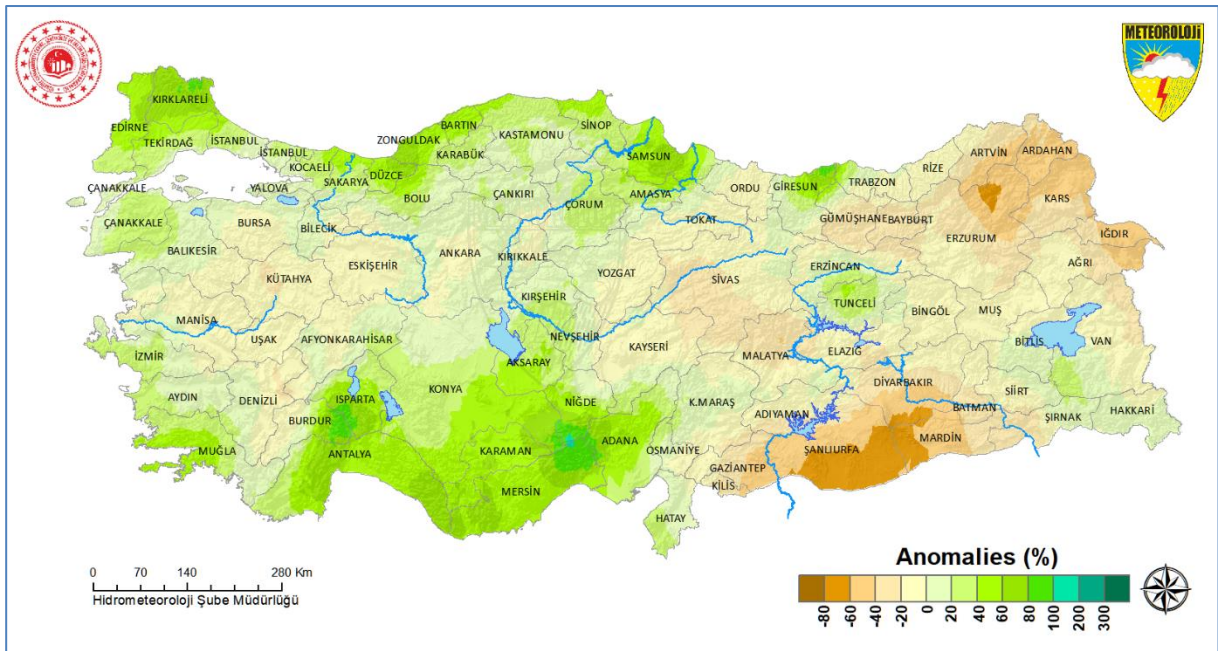


Figure 3 Turkey Precipitation Anomalies in 2021/22 Winter Season

3. High Impact Events:

- Heavy snowfall between 22 and 25 January 2022 negatively affected transportation and human activities in the northwest region of Turkey, especially in Istanbul.
- 2 stations reached new monthly minimum temperature record in December 2021.
- 2 stations reached new monthly maximum and 5 stations reached new monthly minimum temperature record in January 2022.
- 1 station reached new monthly maximum temperature record in February 2021.

4. Verification of the SEECOF-26 climate outlook for 2021/22 winter season:

Country	Seasonal temperature DJF		Seasonal precipitation DJF	
	Observed	SEECOF-26 climate outlook for temperature	Observed	SEECOF-26 climate outlook for precipitation
Turkey	Near or Above normal	Near or Above normal	Above and near normal for southern and western parts - Below or near normal for the inner parts	Below or near normal for southern and western parts - No clear signal for the inner parts