

Country: Türkiye

Institute: Turkish State Meteorological Service

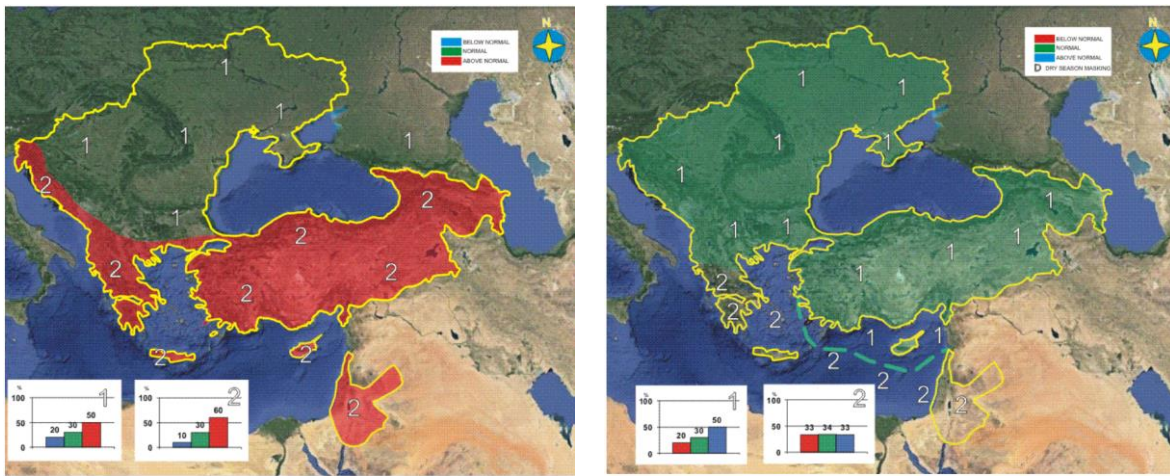
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Assessment of the seasonal forecast for the summer season

DJF 2024

1. SEECOF-31 climate outlook for 2024 winter season:



According to SEECOF-30 consensus statement winter temperature was expected to be near or above-normal in most of the SEECOF region (zone 1) and above-normal in Jordan, Israel, southern parts of Turkey, along the coasts of the Ionian, Aegean, Central and Eastern Mediterranean Seas with belonging hinterland (zone 2).

2. Analysis of 2024 winter season:

1991-2020 winter mean temperature of Turkey is 3.9 °C'. The mean temperature of 2024 winter season was 7.2 °C and 3.3 °C above than seasonal normal.

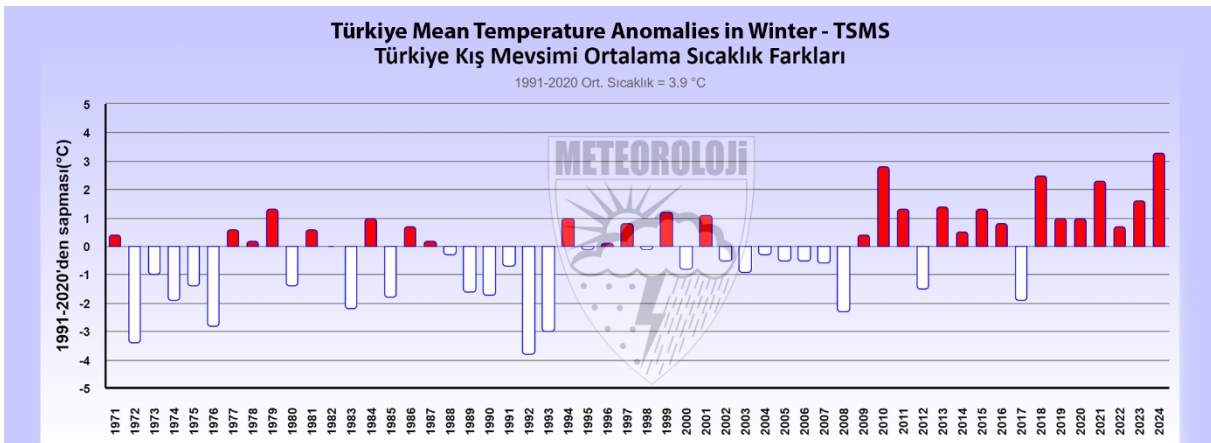


Figure 1 Turkey Summer Season Mean Temperature Anomalies

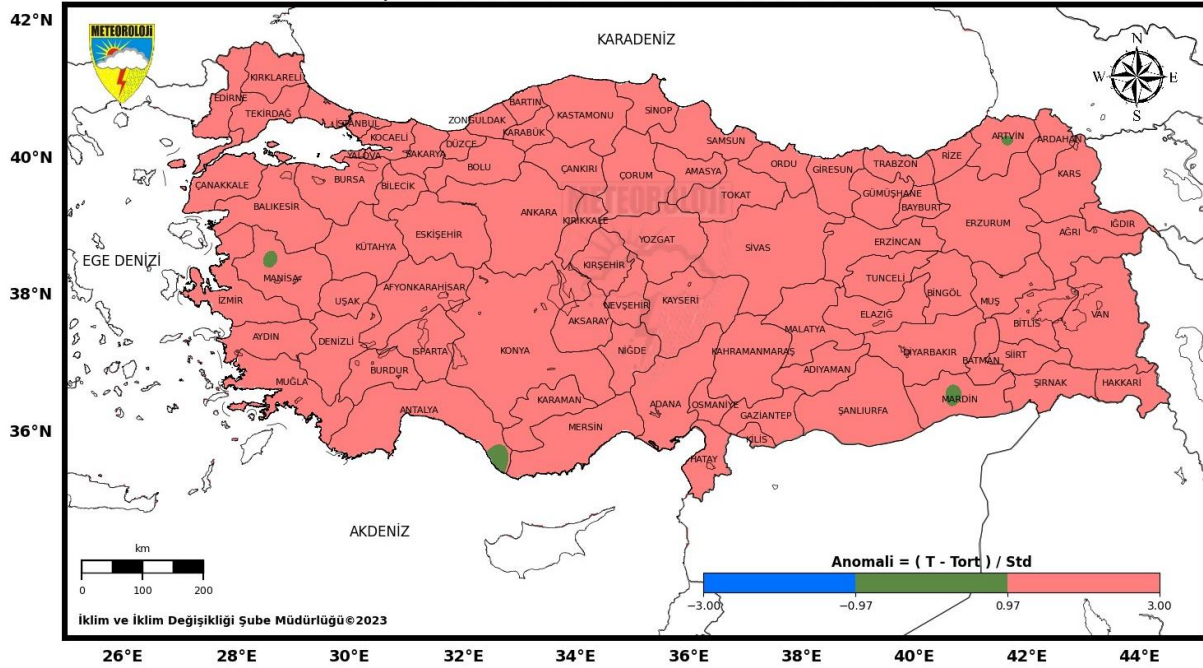


Figure 2 Turkey Summer Season Mean Temperature Anomalies in 2023 (Ref: 1991-2020)

The temperature was above normal in across of the country.

Precipitation;

Türkiye's 1991-2020 winter season mean total precipitation is 205.3 mm. The mean total precipitation of 2024 winter season was 190.5 mm and 7% below than seasonal normal.

In general, precipitation was;

- Below normal (more than 20%) at Western, southern, northern and middle parts of the country.
- Above normal (more than 40%) Eastern Anatolia region and coast of the Eastern Blacksea (more than 20%).

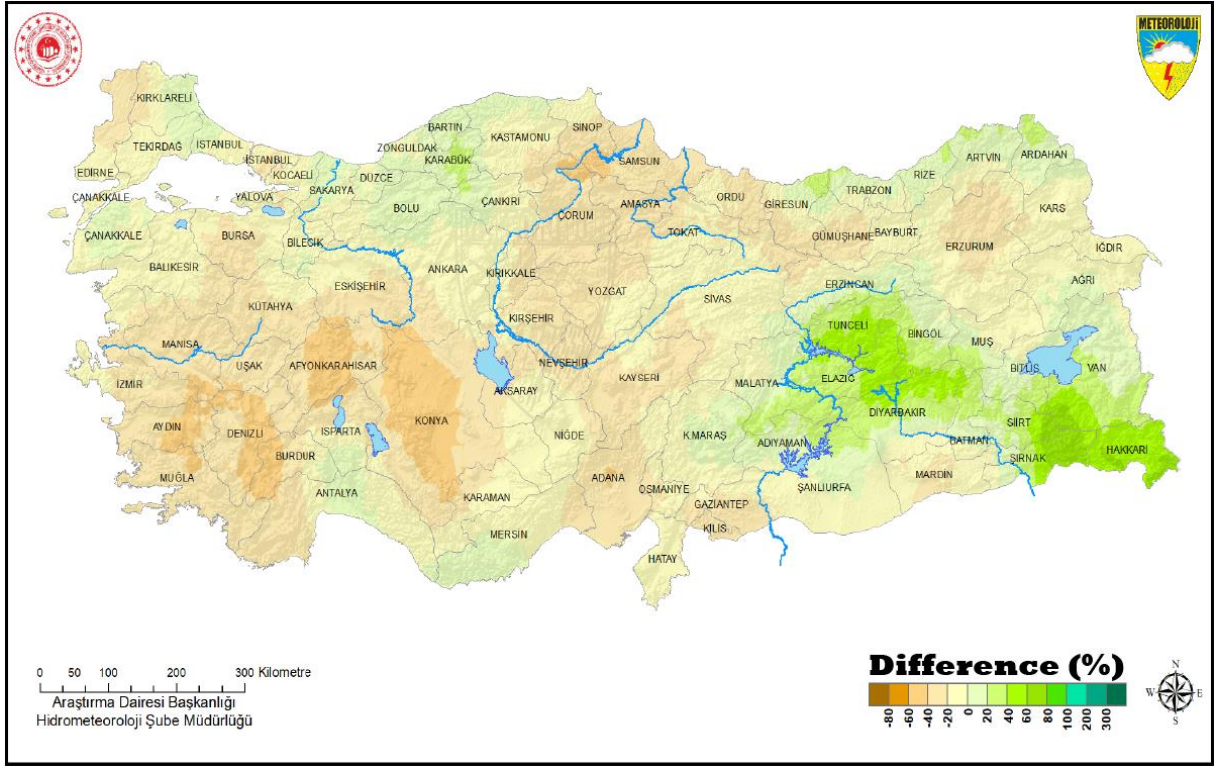


Figure 3 Turkey Winter Season Total Precipitation Anomalies in 2023 (Ref: 1991-2020)

3. High Impact Events:

- Extraordinary **heavy rainfall** occurred at Antalya between 12-13 February 66 houses and farmlands areas were damaged because of flood.
- December 2023, was the **most hottest December** in the 53 years long term period (1971-2023).
- January 2024, was the **most hottest January** in the 53 years long term period (1971-2023).
- February 2024, was the **second hottest February** in the 53 years long term period (1971-2023).
- Winter 2024, was the **most hottest Winter Season** in the 53 years long term period (1971-2023).
- Maximum temperature record was broken in **18 stations** in the 2024 winter season.

4. Verification of the SEECOF-30 climate outlook for 2024 winter season:

Country	Seasonal temperature DJF		Seasonal precipitation DJF	
	Observed	SEECOF-29 climate outlook for temperature	Observed	SEECOF-29 climate outlook for precipitation
Türkiye	Above normal	Above normal	Below normal at Western, southern, northern and middle parts of the country. Above normal Eastern Anatolia region and coast of the Eastern Blacksea (more than 20%).	Above normal