

Country: Türkiye

Institute: Turkish State Meteorological Service

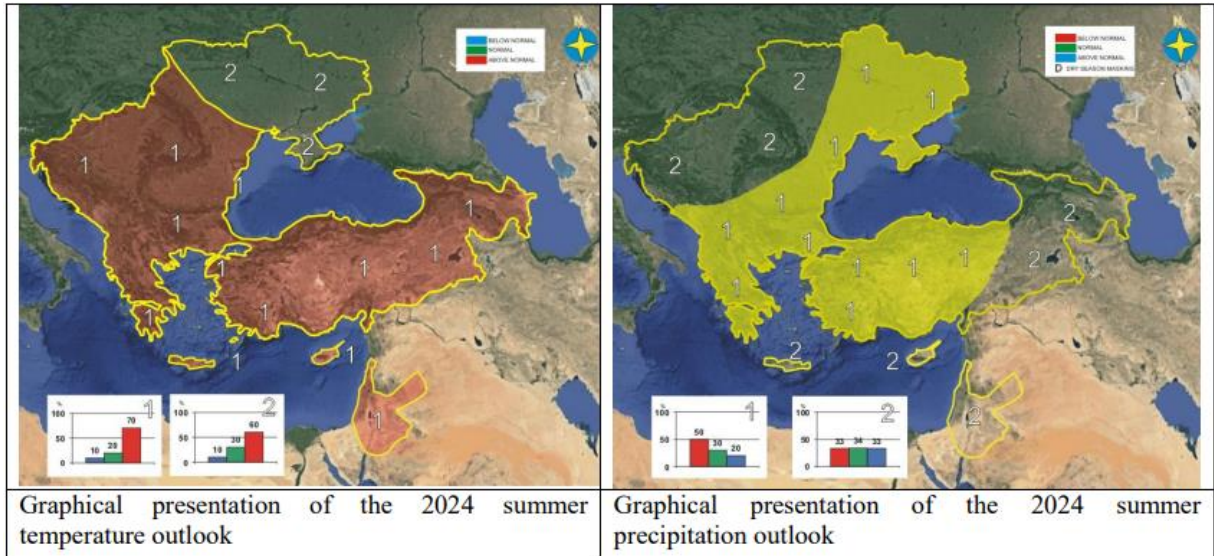
Name: Hüdaverdi Gürkan

E-mail: hgurkan@mgm.gov.tr

Assessment of the seasonal forecast for the winter season

JJA 2024

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



According to the SEECOF-31 consensus statement, the temperature was expected to be above normal for all across Türkiye for the 2024 summer season, for precipitation it was expected below normal for the western and inner parts of Türkiye, and there was no clear signal for the eastern parts of Türkiye.

Analysis of 2024 summer season:

The reference period is 1991-2020.

Türkiye's 1991-2020 summer mean temperature is 24.0 °C. The mean temperature of the 2024 summer season was 26.1 °C and 2.1 °C above the seasonal normal. **The summer of 2024 was the hottest summer season on record for Türkiye.**

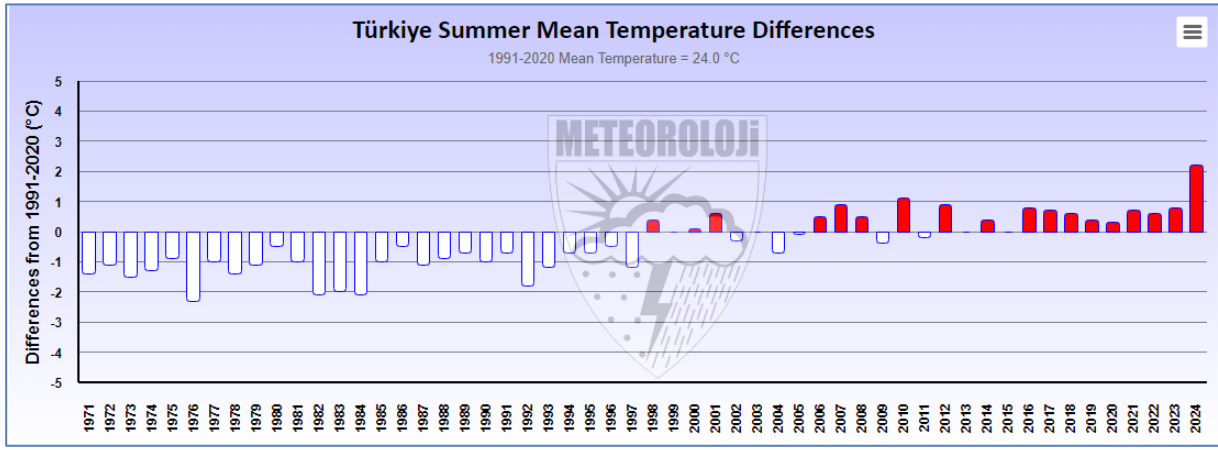


Figure 1 Türkiye Summer Season Mean Temperature Anomalies

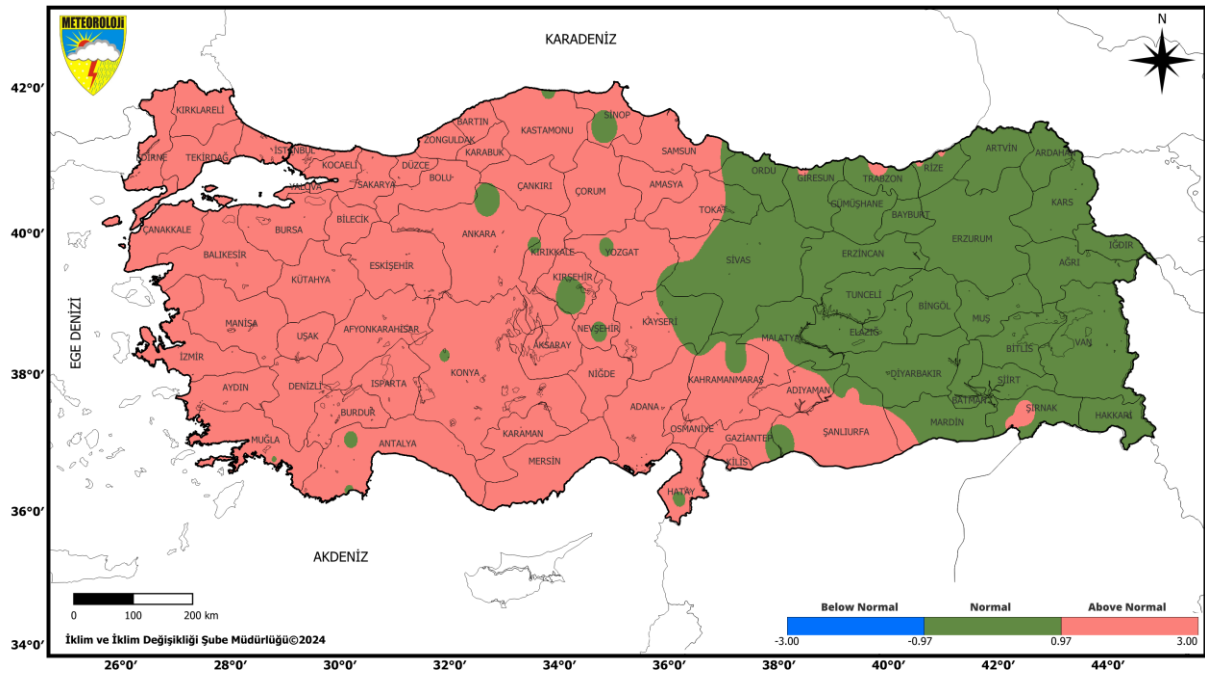


Figure 2 Türkiye Summer Season Mean Temperature Anomalies in 2024

The temperature was above normal in most parts of the country and near normal in the eastern parts of Türkiye.

Precipitation;

Türkiye's 1991-2020 summer season mean total precipitation is 61.0 mm. The mean total precipitation of the 2024 summer season was 58.4 mm and %9 below the seasonal normal.

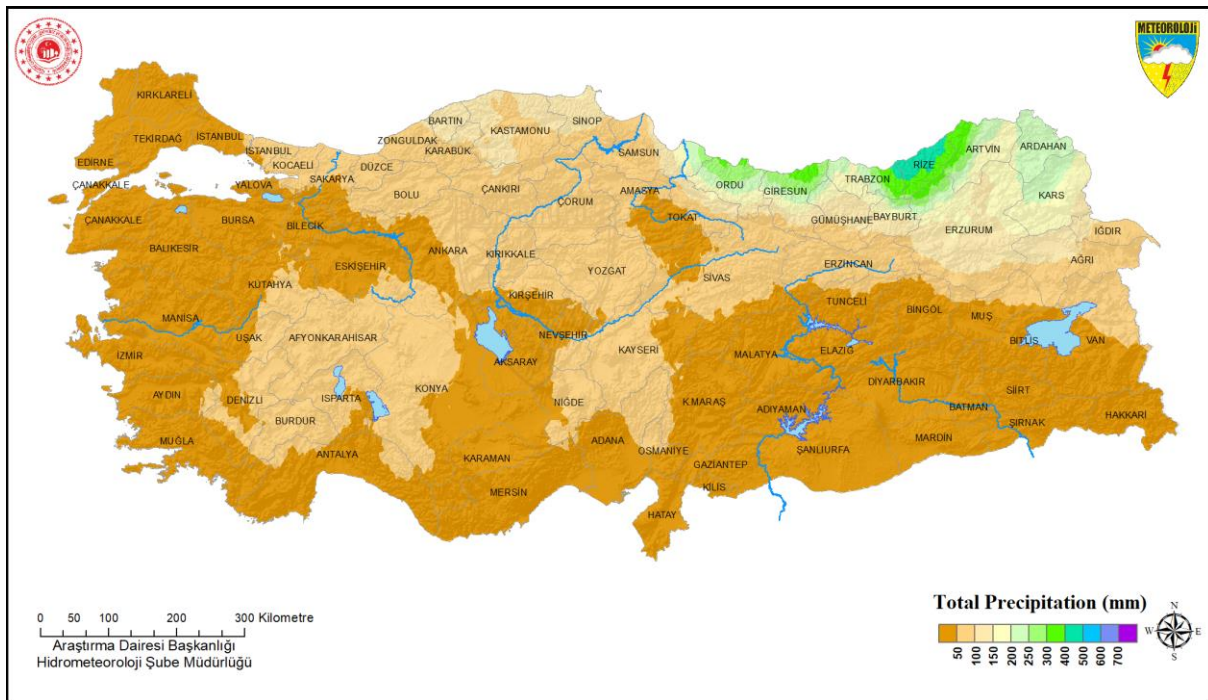


Figure 3 Türkiye 2024 Summer Season Total Precipitation

In General, precipitation was;

- Below normal (**more than 40%**) in western coastal, northwestern, and Southeastern Anatolia regions.
- Above normal (**more than 40%**) in northeastern and some inner and eastern parts of the country.

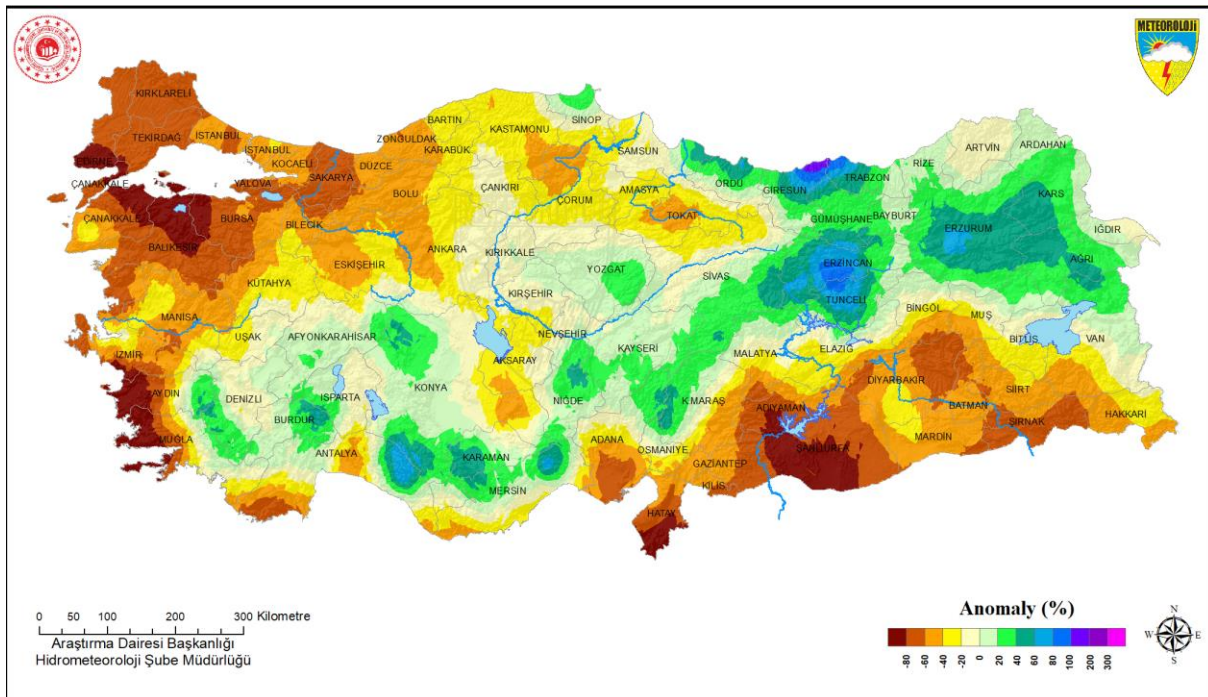


Figure 4 Türkiye Summer Season Total Precipitation Anomalies in 2024

2. High Impact Events:

- Summer 2024 was the hottest summer season on record.
- June 2024 and July 2024 were the hottest months, while August 2024 ranked as the fourth hottest.
- Maximum temperature records were broken at 65 stations in June 2024, 3 stations in July 2024, and 3 stations in August 2024.
- Between 15 and 18 August 2024, a fire in Izmir damaged many houses and workplaces across an area of 2,159 hectares.

3. Verification of the SEECOF-31 climate outlook for 2024 summer season:

Country	Seasonal temperature JJA		Seasonal precipitation JJA	
	Observed	SEECOF-31 climate outlook for temperature	Observed	SEECOF-31 climate outlook for precipitation
Türkiye	Above normal Near normal in eastern parts	Above normal	Below normal in western, and Southeastern parts Above normal in inner and northeastern parts	Below normal in the western and inner parts No clear signal in eastern parts