

Country: Türkiye

Institute: Turkish State Meteorological Service

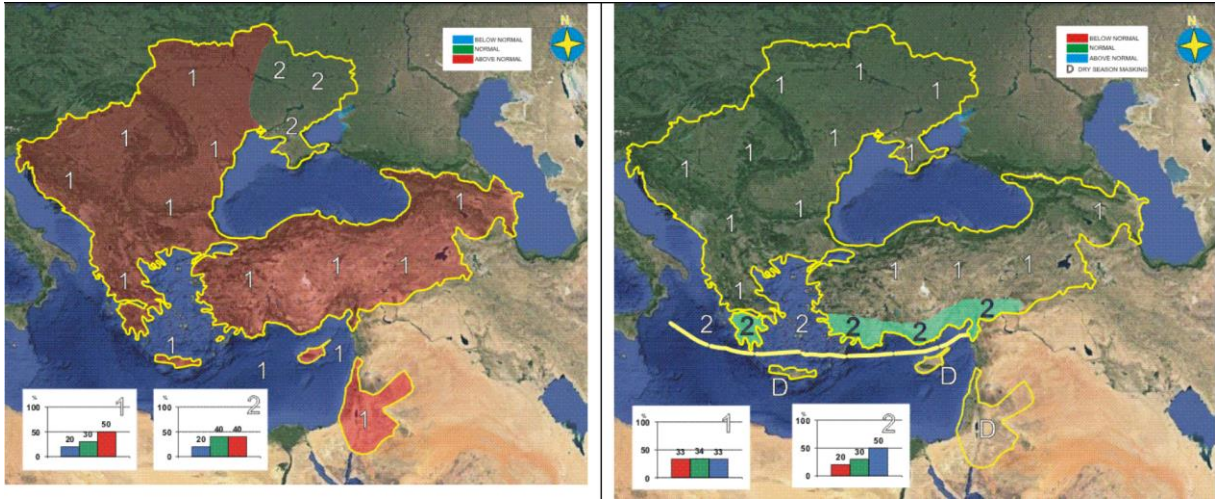
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Assessment of the seasonal forecast for the summer season

JJA 2023

1. SEECOF-29 climate outlook for 2023 summer season:



According to SEECOF-29 consensus statement temperature was expected to be above normal for all across the country for the 2023 summer season, for precipitation there was no clear signal for Turkey except southwest part, expected near normal southwest region of Turkey.

2. Analysis of 2023 summer season:

1991-2020 summer mean temperature of Turkey is 24.0 °C. The mean temperature of 2023 summer season was 24.7 °C and 0.7 °C above than seasonal normal.

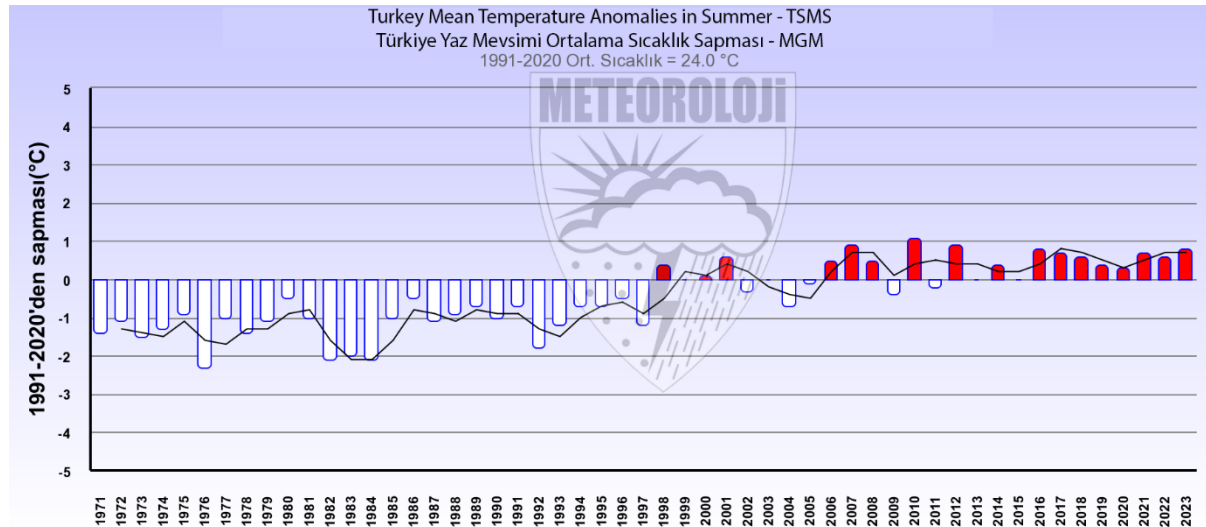


Figure 1 Turkey Summer Season Mean Temperature Anomalies

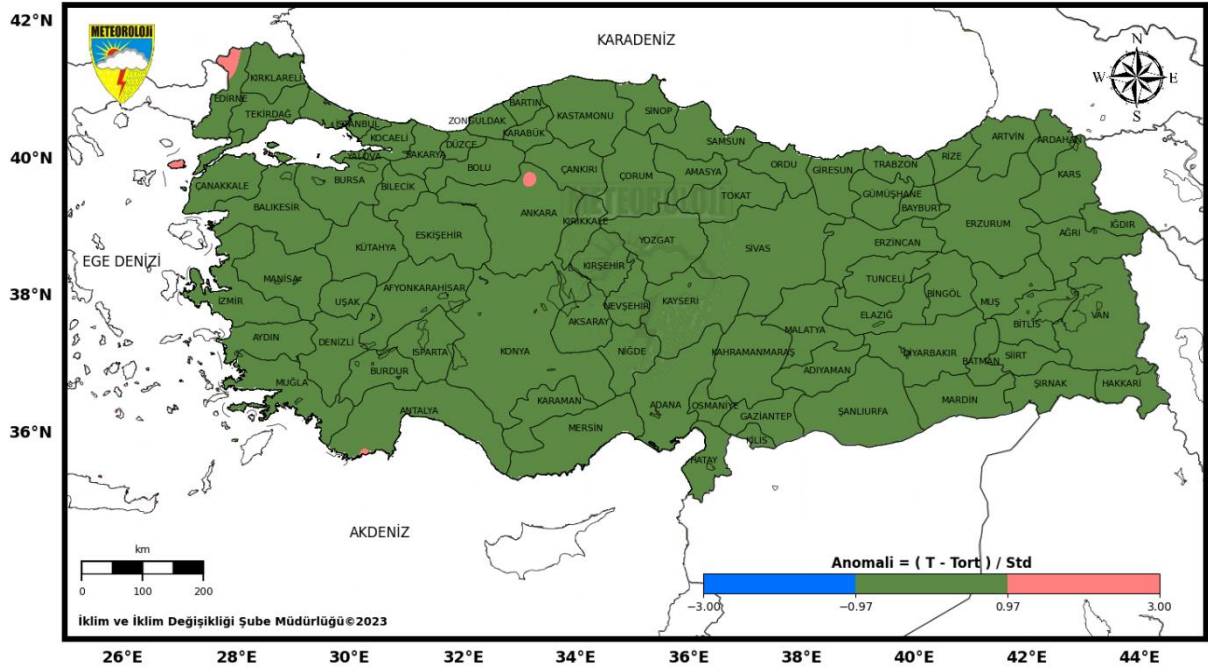


Figure 2 Turkey Summer Season Mean Temperature Anomalies in 2023 (Ref: 1991-2020)

The temperature was near normal in across of the country.

Precipitation;

Turkey's 1991-2020 summer season mean total precipitation is 64.0 mm. The mean total precipitation of 2023 summer season was 82.9 mm and %30 above than seasonal normal.

In General, precipitation was;

- Below normal (**more than 40%**) in Southeastern Anatolia region and below normal in Northwestern region of the country.
- Above normal (**more than 100%**) at Western, northern and middle parts of the country.

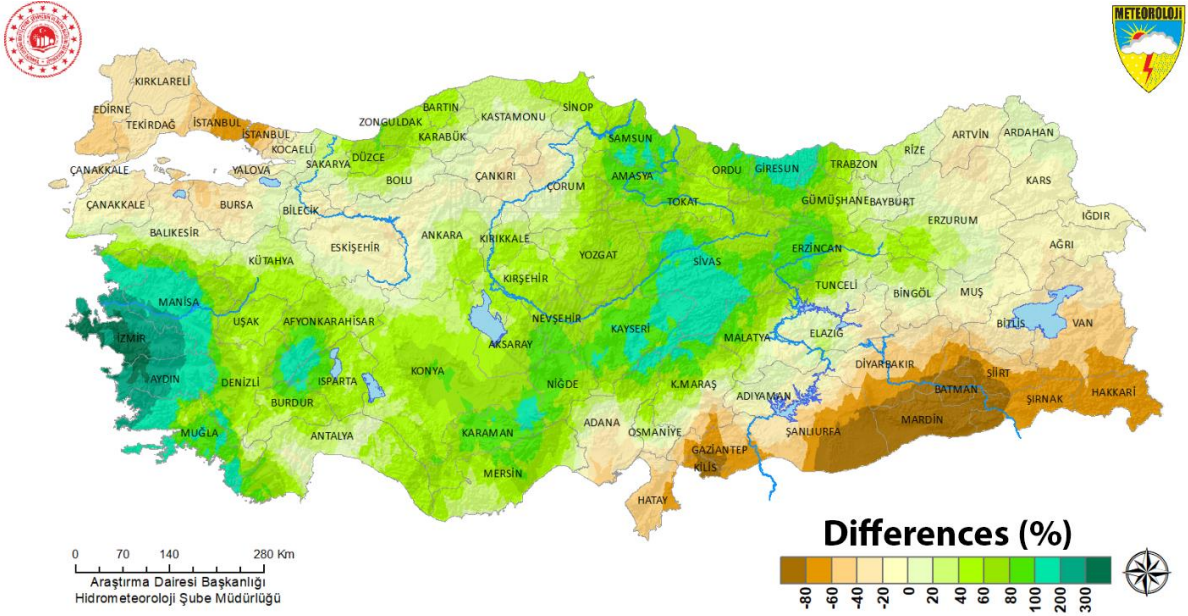


Figure 3 Turkey Summer Season Total Precipitation Anomalies in 2023 (Ref: 1991-2020)

3. High Impact Events:

- Settlements were affected by **forest fires** in Damyeri area of Çanakkale on August 22, 2023. 11 villages were affected by the fire, which was brought under control on August 24, and 303 families were affected.
- Extraordinary **heavy rainfall** occurred at Düzce between July 8 and July 9. 122 houses flooded as a result of flooding. In addition, energy, water stations and farmlands were damaged.
- Turkey's **maximum temperature record** was broken with **49.5°C** measured in Sarıcakaya - Eskişehir on August 15.
- August 2023, was the **second hottest August** in the 51 years long term period (1971-2023).
- Maximum temperature record was broken in **70 stations** in the 2023 summer season.

4. Verification of the SEECOF-25 climate outlook for 2022 summer season:

Country	Seasonal temperature JJA		Seasonal precipitation JJA	
	Observed	SEECOF-29 climate outlook for temperature	Observed	SEECOF-29 climate outlook for precipitation
Turkey	Above normal	Above normal	Below normal in Southeastern and Northwestern Anatolia region – Above normal at Western, northern and middle parts of the country.	No clear signal for Turkey except southwest part – Near normal southwest region of Turkey