

Country: Turkey

Institute: Turkish State Meteorological Service

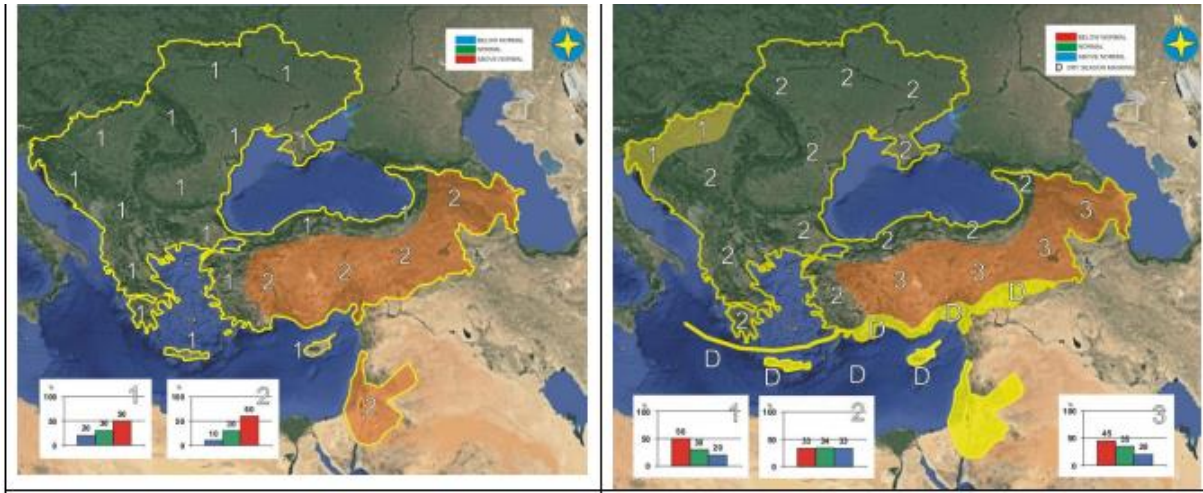
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Assessment of the seasonal forecast for the winter season

JJA 2021

1. SEECOF-25 climate outlook for 2021 summer season:



According to SEECOF-25 consensus statement temperature was expected to be above normal for all across the country for the 2021 summer season, for precipitation there was no clear signal for the western and northern parts of Turkey, and precipitation was expected below normal for the inner and eastern part of Turkey.

2. Analysis of 2021 summer season:

The reference period is 1981-2010.

Turkey's 1981-2010 summer mean temperature is 23.4 °C. The mean temperature of 2021 summer season was 24.7 °C and 1.3 °C above than seasonal normal.

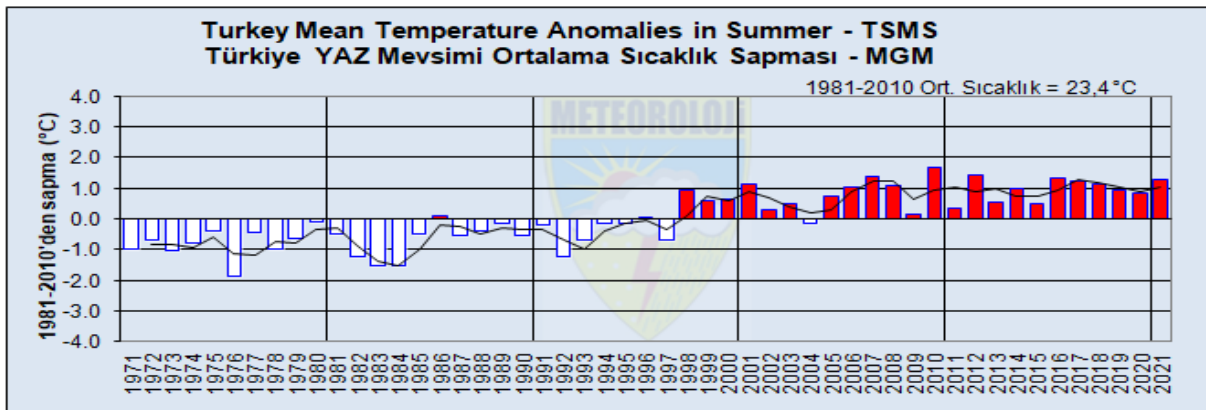


Figure 1 Turkey Summer Season Mean Temperature Anomalies

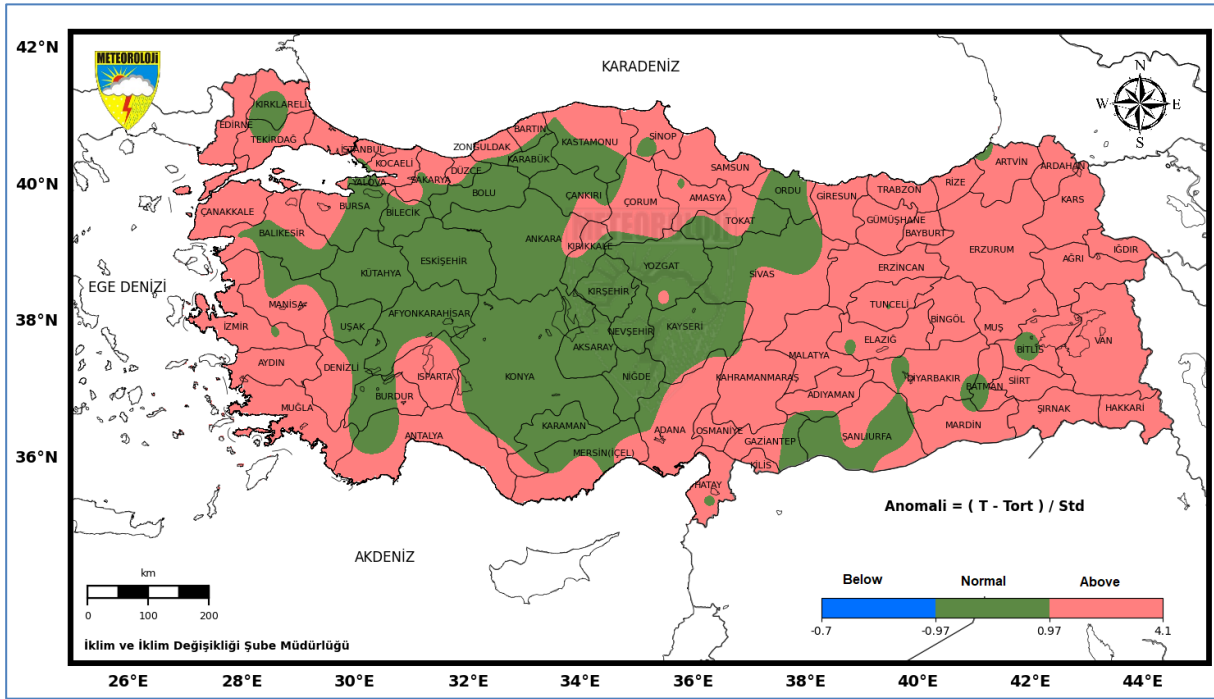


Figure 2 Turkey Summer Season Mean Temperature Anomalies in 2021

The temperature was above normal in most parts of the country and near normal in the inner parts of Turkey.

Precipitation;

Turkey's 1981-2010 summer season mean total precipitation is 61.0 mm. The mean total precipitation of 2021 summer season was 77.0 mm and %26 above than seasonal normal.

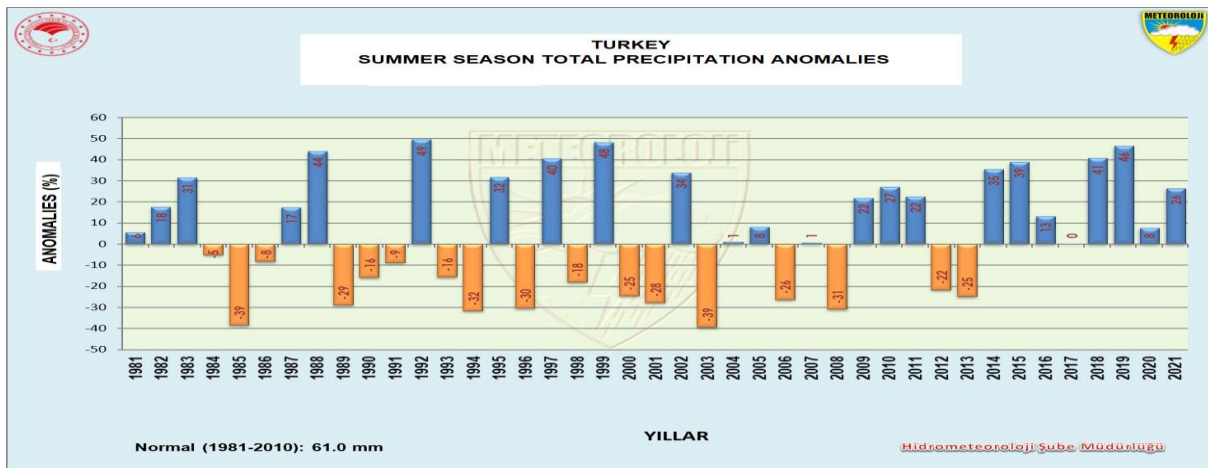


Figure 3 Turkey Summer Season Total Precipitation Anomalies

In General, precipitation was;

- Below normal (**more than 40%**) in Southeastern Anatolia region and below normal at inner part of the country.
- Above normal (**more than 100%** at Western, northern and Antalya, Isparta provinces) in western part and northern parts of the country.

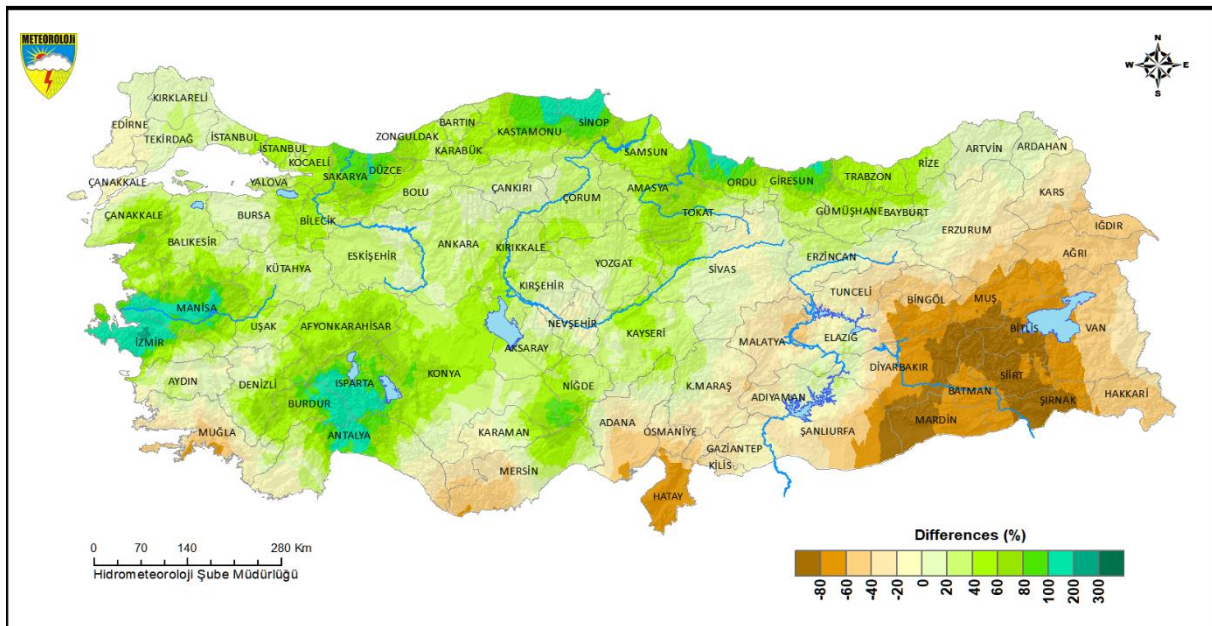


Figure 4 Turkey Summer Season Total Precipitation Anomalies in 2021

3. High Impact Events:

- Settlements were affected by **forest fires** in **49 provinces**, mainly Manavgat/Antalya, Marmaris/Muğla, between July 28 and August 12. Many houses and workplaces were burned and a total of 8 people lost their lives.
- Extraordinary **heavy rainfall** occurred at Kastamonu and Sinop provinces between August 9 and August 12. As a result of the flood, a total of 77 people lost their lives. In addition, settlements, energy, and communication transmission lines and highways were damaged.
- Turkey's **maximum temperature record** was broken with **49.1°C** measured in Cizre on July 20.
- July 2021, was the **second hottest July** in the 51 years long term period (1971-2021).
- Maximum temperature record was broken in **42 stations** in the 2021 summer season.

4. Verification of the SEECOF-25 climate outlook for 2021 summer season:

Country	Seasonal temperature JJA		Seasonal precipitation JJA	
	Observed	SEECOF-25 climate outlook for temperature	Observed	SEECOF-25 climate outlook for precipitation
Turkey	Above normal Near normal at inner parts	Above normal	Above normal at the western and northern coast of Turkey - Below normal at southeastern part of the Turkey	No clear signal at the western and northern coast of Turkey - Below normal at southeastern part of the Turkey