

Country: Turkey

Institute: Turkish State Meteorological Service

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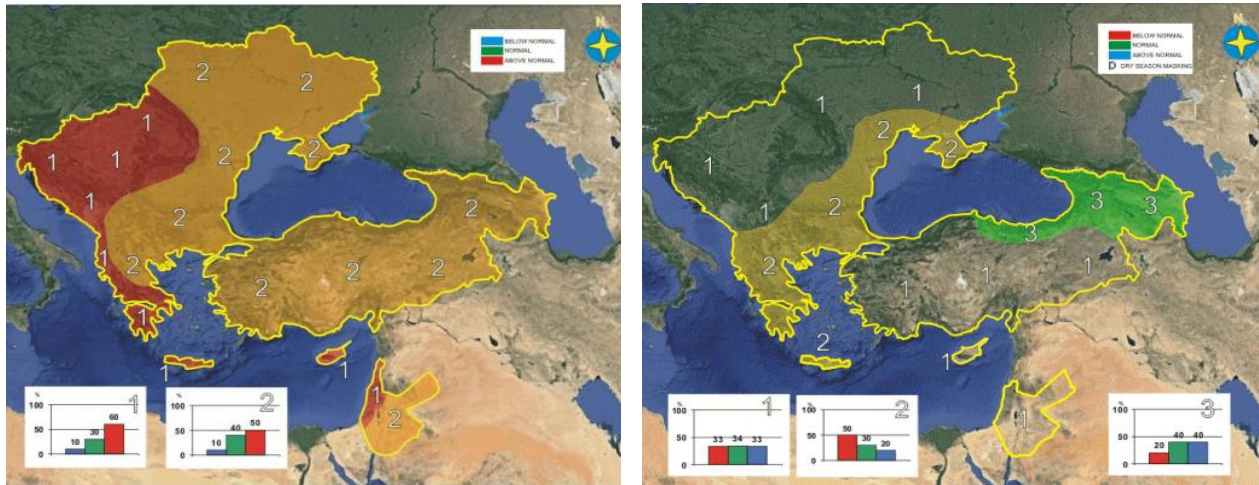
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Assessment of the seasonal forecast for the winter season

DJF 2019-2020

1. SEECOF-22 climate outlook for 2019/20 winter season:

According to SEECOF-22 consensus statement temperature was expected to be above normal for all of the country for 2019/20 winter season, for precipitation there was no clear signal for most part of the Turkey and precipitation was expected above normal for eastern coast of the Black Sea Region of Turkey.



2. Analysis of 2019/20 winter season:

The reference period is 1981-2010.

Turkey's 1981-2010 winter mean temperature is 3.6 °C. The mean temperature of 2019/20 winter season was 4.9 °C and 1.3 °C above than seasonal normal.

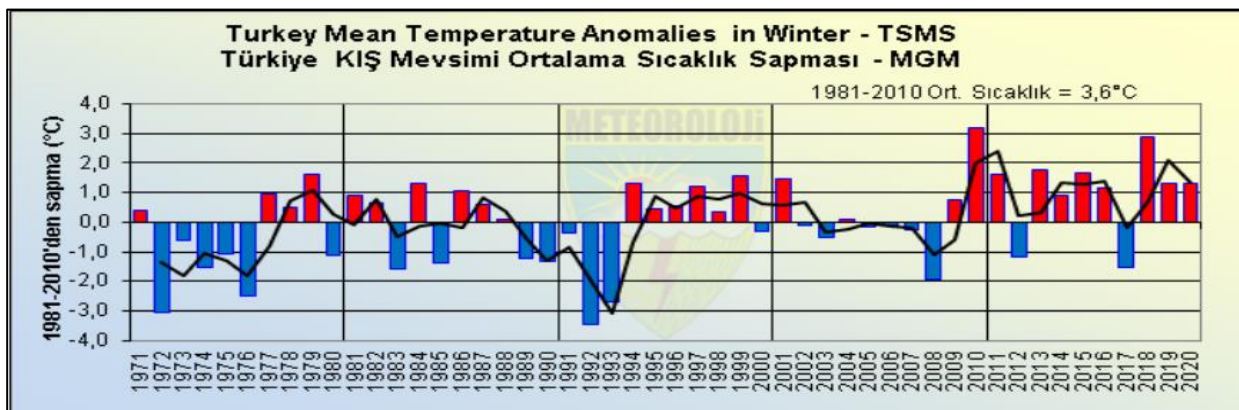


Figure 1 Turkey Mean Temperature Anomalies in 2019/20 Winter Season



Figure 2 Turkey Mean Temperature Anomalies in 2019/20 Winter Season

Temperature was near normal at most part of country and above normal at northern coast and East Anatolian region of Turkey.

Precipitation;

Turkey's 1981-2010 winter season mean total precipitation is 204.4 mm. The mean total precipitation of 2019/20 winter season was 233.5 mm and % 14.2 above than seasonal normal. In General, precipitation was;

- Below normal in western and north east part of country.
- Above normal in southern and northern part of country.
- The mean total precipitation was **above normal more than 100 %** at Southeast Mediterranean coast (Adana, Mersin) of Turkey.
- The mean total precipitation was **below normal more than 60 %** at North East and North West part of Turkey.

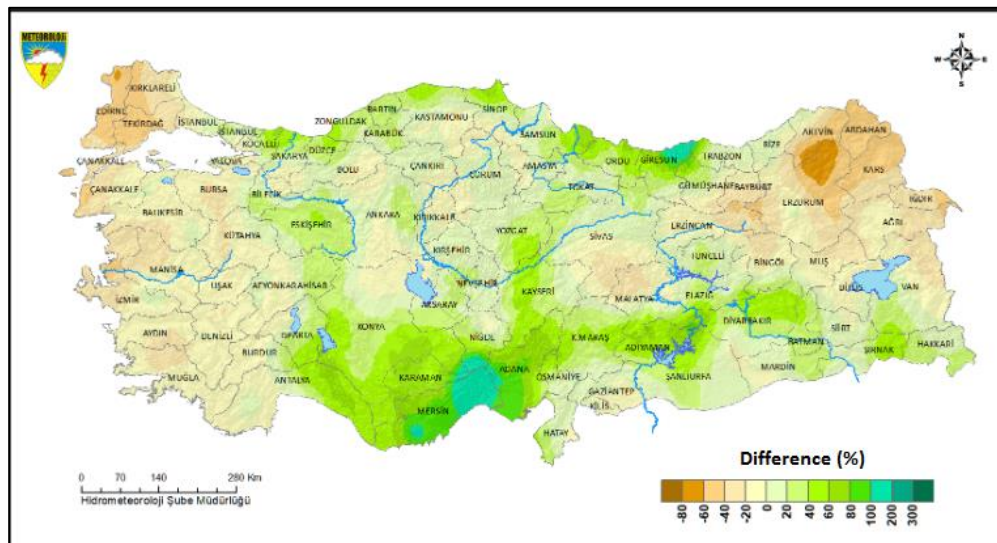


Figure 3 Turkey Precipitation Anomalies in 2019/20 Winter Season

3. High Impact Events:

- December 2019, was the **sixth hottest** December in the long term period (1971-2019). Turkey December Mean temperature is 4.6°C, December 2019 mean temperature was 6.5°C.
- 1 station reached new monthly maximum temperature record in December 2019.
- 1 station reached new monthly **maximum** temperature record and 1 station reached new monthly **minimum** temperature record in February 2020.
- In January 2020, **2 casualties** due to flood in Mersin (in Eastern Mediterranean Region).
- In February 2020, **5 casualties** due to avalanche and unfortunately **36 casualties** due to second avalanche while rescue operation in Van (Eastern Anatolian Region).

4. Verification of the SEECOF-22 climate outlook for 2019/20 winter season:

Country	Seasonal temperature DJF		Seasonal precipitation DJF	
	Observed	SEECOF-22 climate outlook for temperature	Observed	SEECOF-22 climate outlook for precipitation
Turkey	Near and Above normal	Near and above normal	Above normal at inner and southeast Mediterranean coast of Turkey Below normal at western and north east part of Turkey	No clear signal for most of the country – Above normal northern east cost of Black Sea Region of Turkey