

Country: Turkey

Institute: Turkish State Meteorological Service

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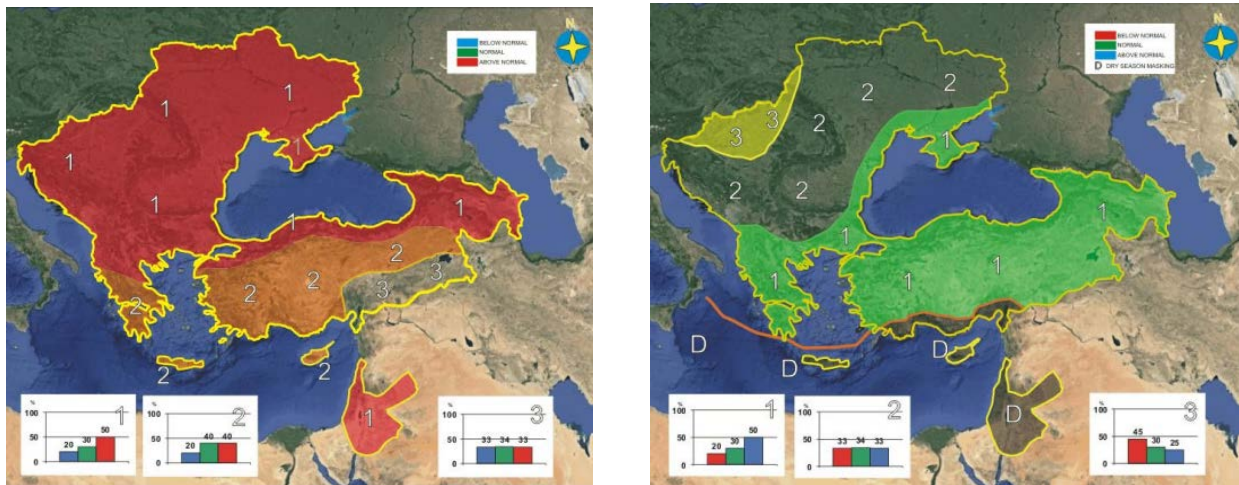
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Assessment of the seasonal forecast for the summer season

JJA 2019

1. SEECOF-21 climate outlook for 2019 summer season:

According to SEECOF-21 consensus statement temperature was expected to be near normal for most of the country and it was expected above normal for northern part of Turkey for summer 2019, precipitation was expected above normal almost all of the country except Mediterranean Sea coastal of Turkey.



2. Analysis of 2019 summer season:

Turkey's 1981-2010 summer mean temperature is 23.4 ° C. The mean temperature of summer season 2019 was 24.4 ° C and 1.0 ° C above than seasonal normal.

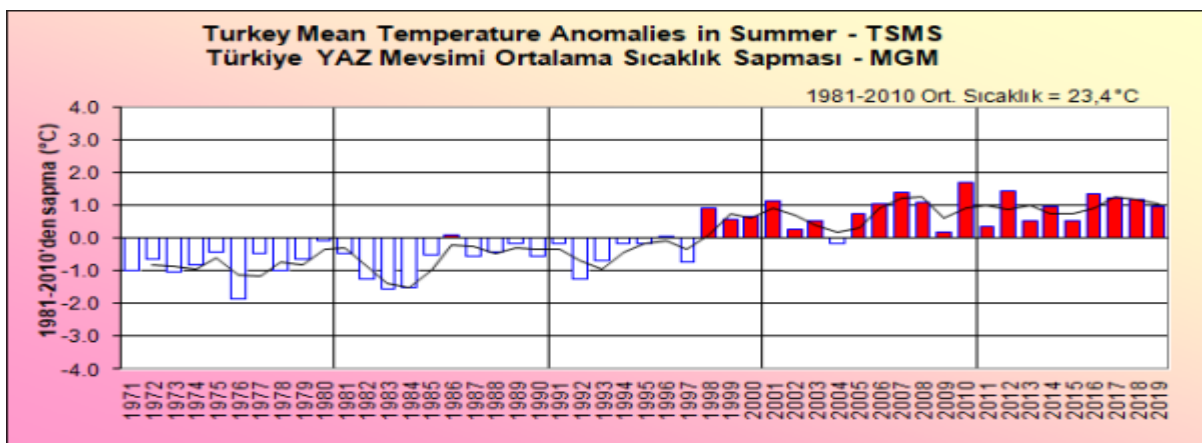


Figure 1 Turkey Mean Temperature Anomalies in 2019 Summer Season

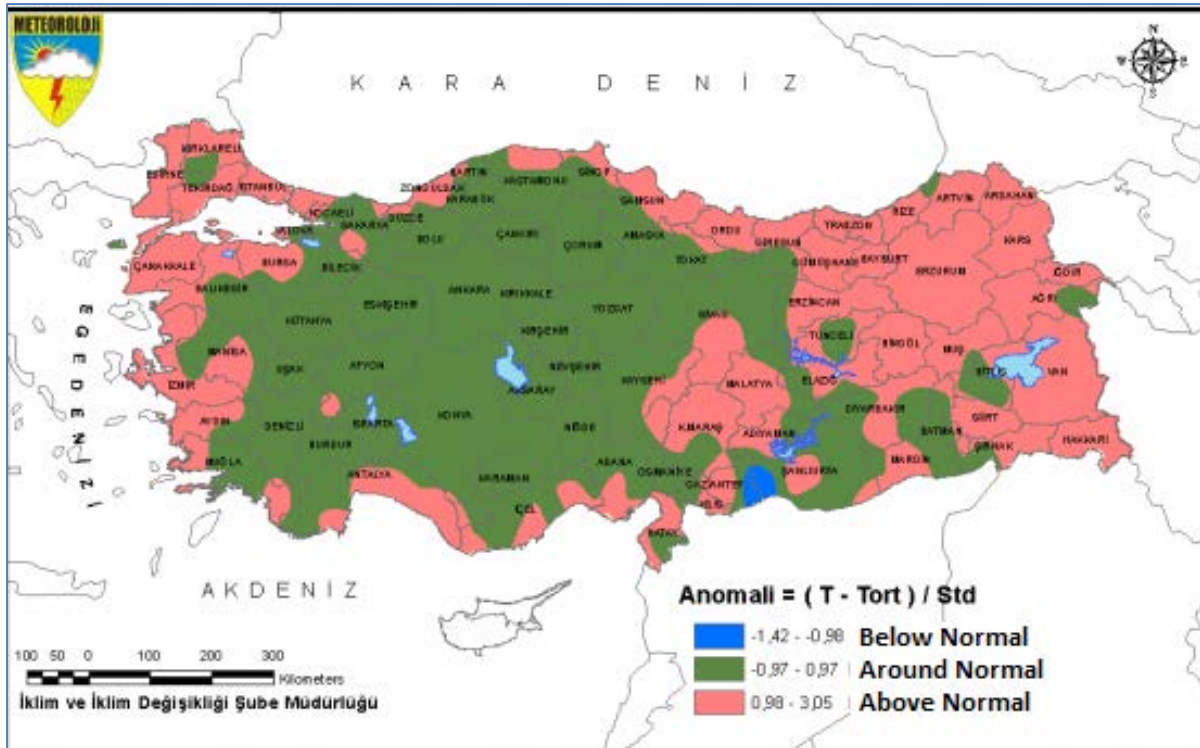


Figure 2 Turkey Mean Temperature Anomalies Map in 2019 Summer Season

Temperature was near normal especially inner part of country and above normal around eastern and western part of country.

Turkey's 1981-2010 summer season mean total precipitation is 61.0 mm. The mean total precipitation of summer season 2019 was 89.3 mm and % 46 above than seasonal normal. The mean total precipitation was above normal except eastern part of country.

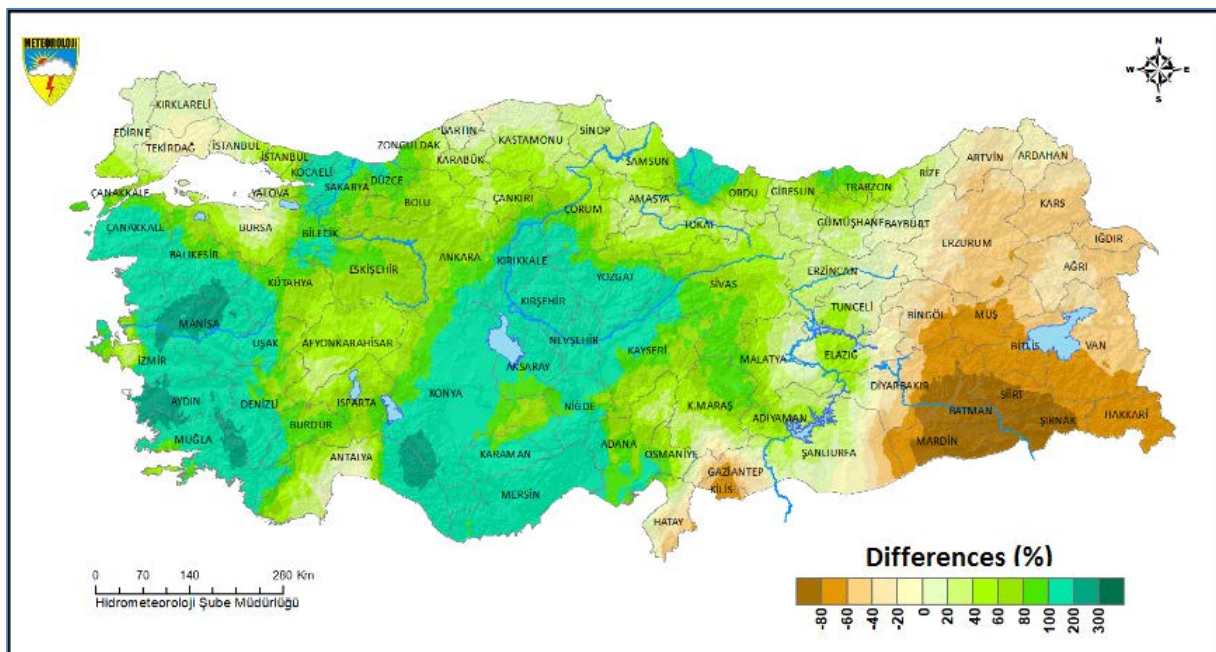


Figure 3 Turkey Precipitation Anomalies in 2019 Summer Season

3. High Impact Events:

- June 2019, was the **hottest** June in the long term period (1971-2019). Turkey June Mean temperature is 21.3°C, June 2019 mean temperature was 23.4°C.
- June and August 2019 mean temperature were above normal, July 2019 mean temperature was around normal (RF: 1981-2010).
- 8 stations reached new maximum temperature record in June 2019.
- 15 stations reached new maximum temperature record in August 2019.
- In June 2019, **7 people lost his/her life** due to heavy rain and flood in Trabzon (in Black Sea Region).
- In June 2019, **3 people lost his/her life** due to heavy rain and flood and **1 person lost his life** due to **lightning** in Agri (Eastern Anatolian Region) province.
- In June 2019, heavy **hail** caused damage in agricultural areas in Ankara.
- In June 2019, heavy rain and flood damaged infrastructure. **3 people lost his/her life** in Ankara.
- In July 2019, **flood and landslide** caused transportation difficulties, damaged livestock and **2 people lost his/her life** in Duzce.
- In August 2018, **flood and landslide** caused damage in agricultural areas, livestock, transportation and **2 people lost his/her life** in Samsun (Black Sea Region).

4. Verification of the SEECOF-21 climate outlook for 2019 summer season:

Country	Seasonal temperature JJA		Seasonal precipitation JJA	
	Observed	SEECOF-21 climate outlook for temperature	Observed	SEECOF-21 climate outlook for precipitation
Turkey	Near and Above normal	Near and above normal	Above normal at inner and western part of Turkey Below normal at eastern part of Turkey	Above normal – Dry for Mediterranean Sea costal