

**Country: Tunisia**

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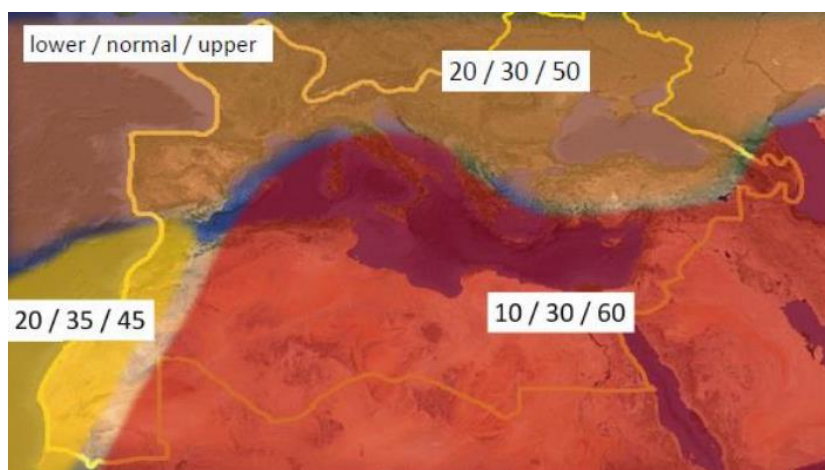
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## **Assessment of the seasonal forecast for the summer season**

**JJA 2017**

### **1. MedCOF-8 Climate outlook for the 2017 summer season**

The MedCOF-8 temperature outlook for Tunisia indicated a preference for the upper tercile all over the country with 60% probability for the above normal tercile, 30% for the normal tercile and 10% for the below tercile (Figure 1, region in red).



**Figure 1: Graphical presentation of 2017 summer temperature outlook**

The MedCOF-8 precipitation outlook for Tunisia showed no preference for any category of forecast. The climatological forecast (33%, 33%, 33%) implies that no meaningful forecast can be provided (Figure 2).

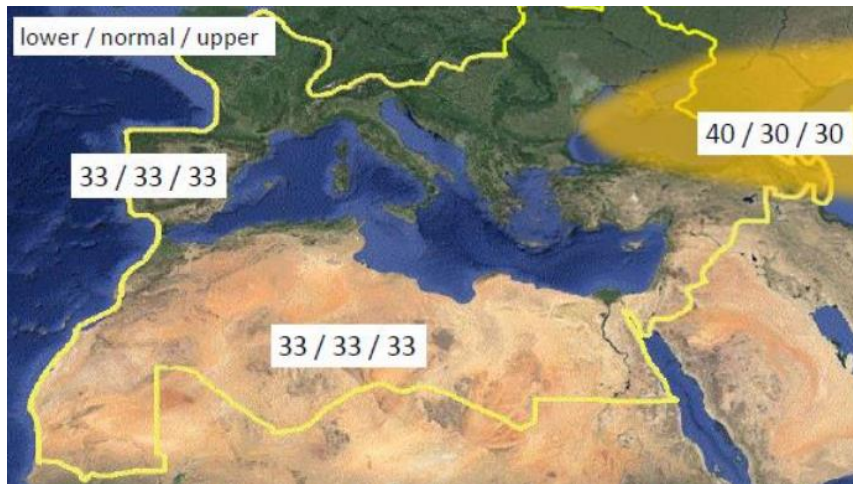


Figure 2: Graphical presentation of 2017 summer precipitation outlook

## 2. Analysis of the 2017 summer season

### 2.1. Monthly analysis

#### June:

In June 2017, the mean temperature was in the above normal tercile over almost all Tunisia. The extreme south of the country registered near normal temperatures. Monitoring of precipitation showed above normal conditions over the north, eastern coastlines and the south-west and extreme south. Over the remaining regions precipitations were classified in the near normal category.

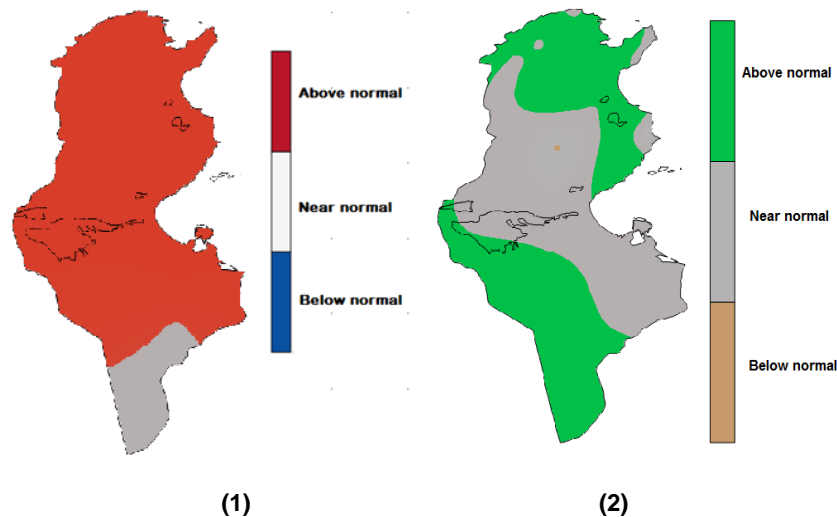


Figure 3: (1) Monitoring of June 2017 mean temperature of Tunisia using tercile method  
(2) Monitoring of June 2017 total precipitation of Tunisia using tercile method

#### July:

In July 2017, monitoring of mean temperature showed that mean temperature was in the above normal tercile in the north, the center and south-east of Tunisia. Elsewhere temperature was in the normal category.

For precipitation, above normal conditions were registered over eastern coastlines and the center of Tunisia. Elsewhere, precipitations were classified in the normal tercile.

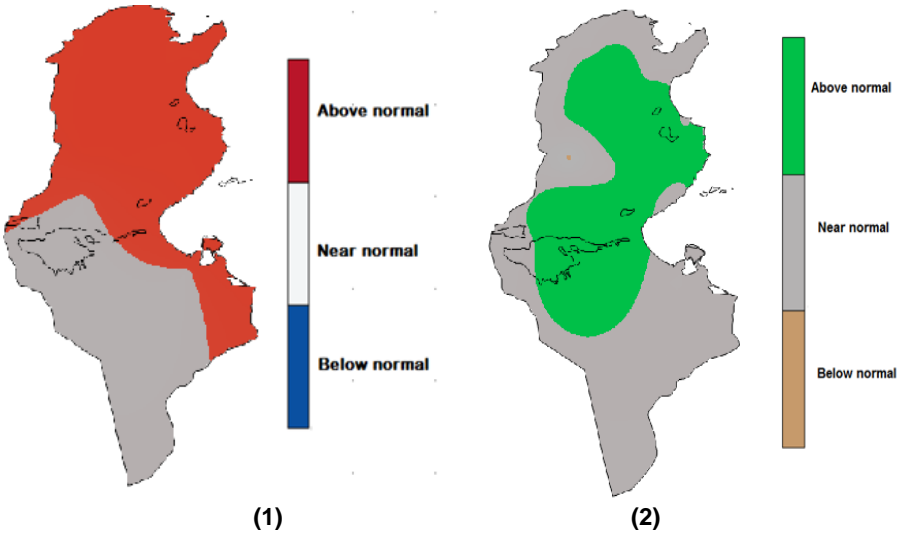


Figure 4: (1) Monitoring of July 2017 mean temperature of Tunisia using tercile method  
 (2) Monitoring of July 2017 total precipitation of Tunisia using tercile method

**August:**

In August 2016, the mean temperature was in the normal tercile over the south-east and extreme. Elsewhere temperature were in the above normal tercile.

For precipitations, below normal conditions were registered over the center-west and small region in the Cap-Bon. Elsewhere precipitations were in the normal category.

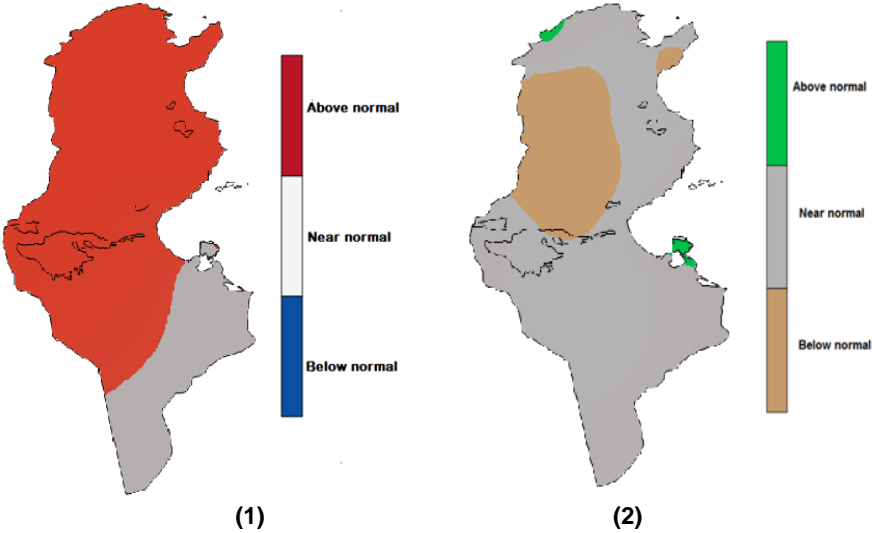


Figure 5: (1) Monitoring of August 2017 mean temperature of Tunisia using tercile method  
 (2) Monitoring of August 2017 total precipitation of Tunisia using tercile method

## 2.2. Seasonal analysis

### Temperature:

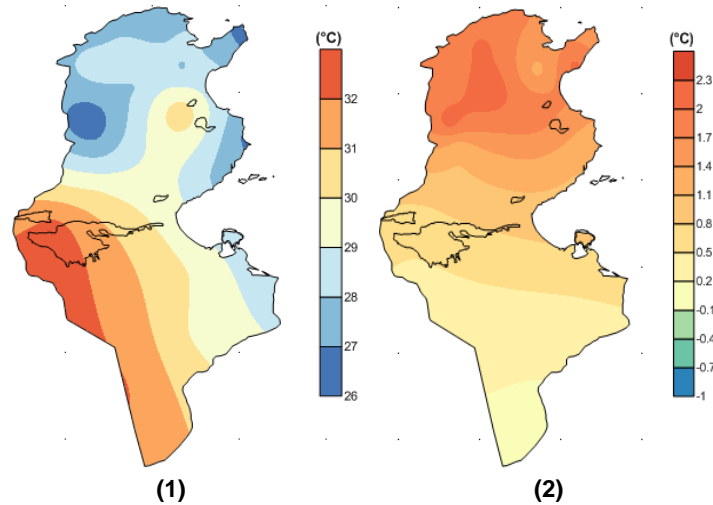


Figure 6: (1) 2017 summer season mean temperature of Tunisia (°C)  
(2) 2017 summer season mean temperature anomaly of Tunisia (°C)

The summer season mean temperature is at its minimum over north-western regions and the coastal areas of Tunisia. The lowest value of mean minimum temperature was 18.5 °C measured in Beja. The south-west of Tunisia was mainly the hottest region in 2017 summer season. Highest mean maximum temperature was registered in Nafta with 39.56°C while the highest value of maximum temperature registered was 48°C also in Nafta.

Mean temperature was above normal in the north and the center west with anomalies up to 2.3°C. Elsewhere temperatures were normal to slightly above normal.

### Precipitation:

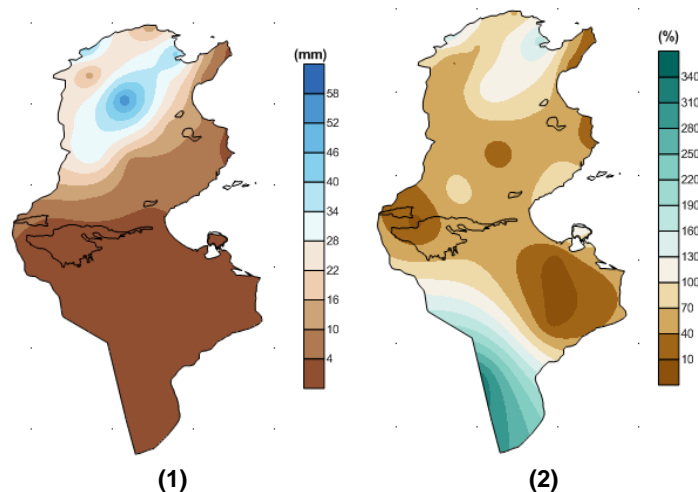


Figure 7: (1) 2017 summer total precipitation amount of Tunisia (mm)  
(2) 2017 summer total precipitation anomaly in Tunisia (%)

Precipitation in Tunisia was at its maximum over a gradient north-east center-west. Extreme values were registered in Tunis-Carthage station in the north-east such as the highest 24 hours total precipitation with a total of 31 mm.

With reference to 1981-2010 period, total precipitation amount was above normal in the south-west and small region in the north-east. Elsewhere precipitation were in the normal to below normal category.

### 3. High Impacts Events

#### Extreme values index

Temperature	TX (°C)	TXX (°C)	TN (°C)	TNN (°C)
	39.56 (in Nafta)	48 (in Nafta)	18.56 (in Beja)	7.22 (in Beja)
Precipitation	RX1d (mm)	RX5d (mm)	RR10 (days)	RR20 (days)
	31 (in Tunis Carthage)	42 (in Tunis Carthage)	2 (in Tunis Carthage,Tabarka)	1 (in Tunis Carthage,Tabarka)

06/06/2017: floods on the north of the country (Bizerte and Tunis) causing damages

26-28/06/2017: heat wave

10-12/07/2017: heat wave. Persistence of hot weather on our regions. This rise in temperature with sirocco shots. Maximum temperatures exceeded the normal of July and reached 42°C on the East coast and 46 ° C on the rest of the country.

### 4. Verification of the MedCOF-8 climate outlook for the 2017 summer season

Country	Seasonal temperature (JJA)		Seasonal precipitation (JJA)	
	Observed	MedCOF-8 climate outlook for temperature	Observed	MedCOF-8 climate outlook for precipitation
Tunisia	Above normal in the the north  Normal to slightly above normal elsewhere	Above normal tercile	Above normal in the south-west and small region in the north-east  Normal to below normal elsewhere	No clear signal

Basic climatological period used is 1981-2010

### 5. Users' perceptions of the MedCOF-8 outlook

The use of seasonal forecast is not developed yet in Tunisia.