

**Country: Tunisia**

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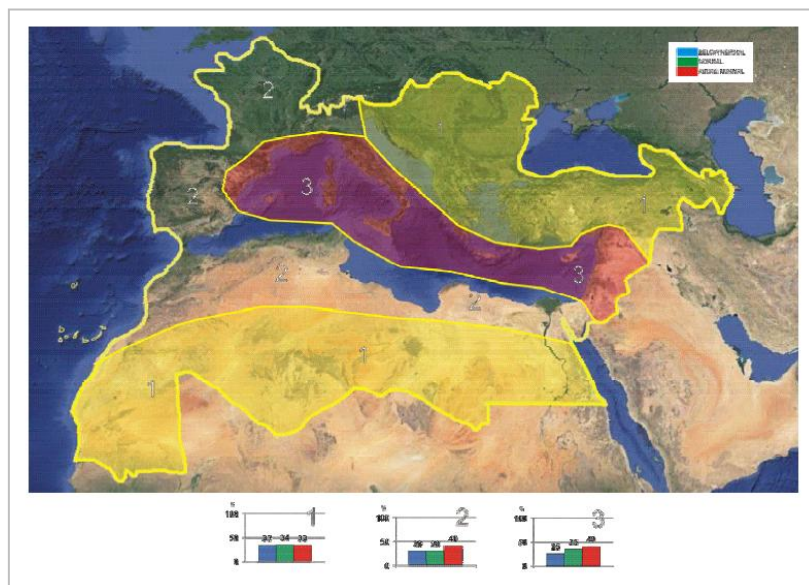
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## **Assessment of the seasonal forecast for the winter season**

**DJF 2013-14**

### **1. MedCOF-1 Climate outlook for the 2013-14 winter season**

The MedCOF-1 temperature outlook for Tunisia assigned 40% probability for the above normal tercile, 30% for the normal tercile and 30% for the below normal tercile (Figure 1, region 2). Such distribution indicates relatively high confidence for above normal conditions.



**Figure 1: Graphical presentation of 2013-14 winter temperature outlook**

The MedCOF-1 precipitation outlook for Tunisia showed no preference for any climate defined categories (Figure2, region 3)

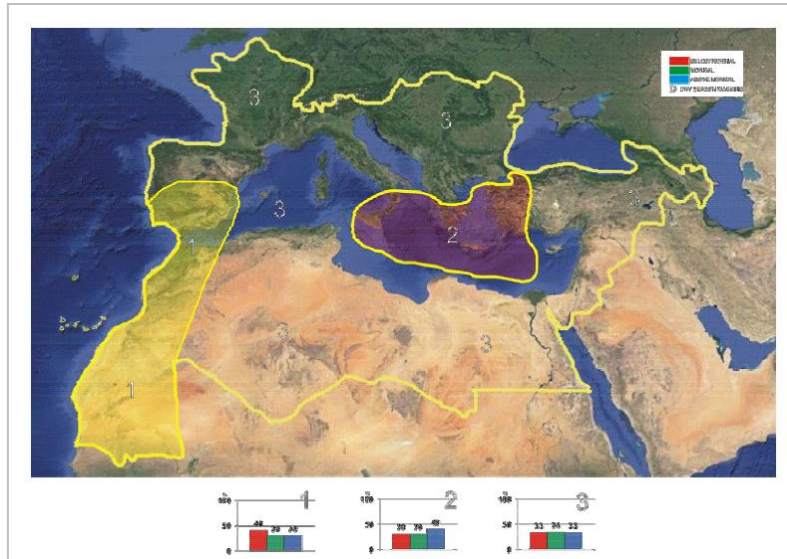


Figure 2: Graphical presentation of 2013-14 winter precipitation outlook

## 2. Analysis of the 2013-14 winter season

### 2.1. Monthly analysis

#### December:

In December 2013, the mean temperature in all of the country was around normal. It was above normal in the south-east.

Monthly mean total precipitation was normal to slightly above normal in the south with 191% of normal in Remeda and in the center east with 203% of normal in Kairouan. It was below normal in the west and the north-west of the country.

#### January:

In January 2014, the mean temperature was above normal in all of the country. The maximum deviation was registered in the south with 3°C in Remeda and 2.1°C in Djerba.

Monthly mean total precipitation was below normal in the entire regions of Tunisia especially in the south.

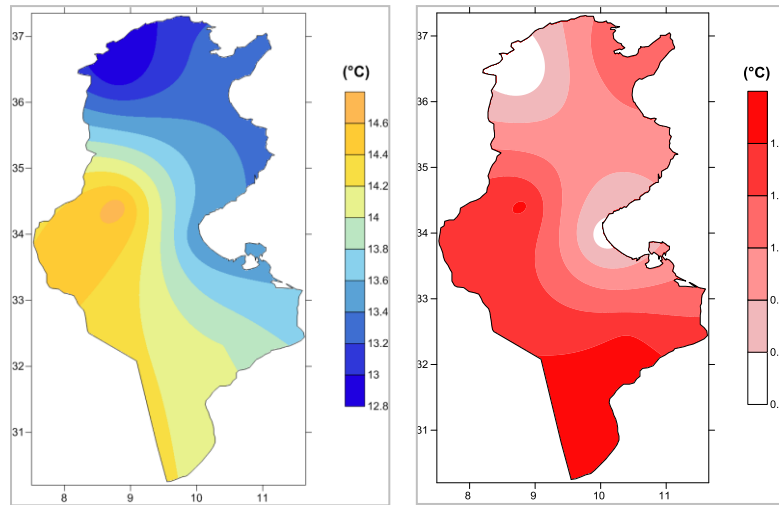
#### February:

In February 2014, the mean temperature was above normal in almost the whole country. The north-east and the south of Tunisia has registered the maximum exceeding of normal with, respectively, 1.9°C and 2°C.

Monthly mean total precipitation was below normal in almost all regions of Tunisia. It was above normal in the east-south with 212% of normal in Djerba and in the center of Tunisia with 108% of normal in Kairouan.

## 2.2. Seasonal analysis

### Temperature:

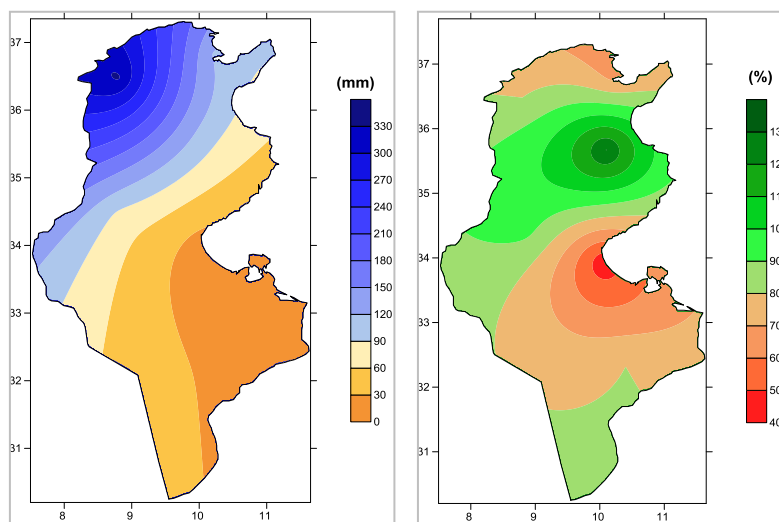


(1) (2)  
Figure 3: (1) 2013-14 winter season mean temperature of Tunisia (°C)  
(2) 2013-14 winter season mean temperature anomaly of Tunisia (°C)

The winter season mean temperature is at its minimum on coastal line especially on the north-east of Tunisia. The highest value of monthly mean maximum temperature was 19.7°C measured in Djerba in the south of Tunisia. The lowest value of monthly mean minimum temperature was 4.1°C measured in Thala in the north of Tunisia.

Mean temperature was above normal in almost the whole country by 0.9-1.5°C. On coast line, temperature was slightly higher than normal especially in the east-north of Tunisia by 0.5-1.1°C.

### Precipitation:



(1) (2)  
Figure 4: (1) Total precipitation amount of Tunisia (mm)  
(2) Mean precipitation anomaly in Tunisia (%)

Total precipitation amount were normal to slightly above normal, ranging between 90-130% of the normal, in the center of Tunisia. It was below normal in the southern and extreme north part of territory, ranging between 40-80% of the normal.

### 3. High Impacts Events

Parameter	TX	TXX	TN	TNN	RX1d	RX5d	R10	R20
Tunisia	19.7	30.1	4.1	-0.9	39.5 (in Tabarka)	73 (in Tabarka)	17 (in Kairouan and in Tabarka)	20 (in Tabarka)

### 4. Verification of the MedCOF-1 climate outlook for the 2013-14 winter season

Country	Seasonal temperature (DJF)		Seasonal precipitation (DJF)	
	Observed	MedCOF-1 climate outlook for temperature	Observed	MedCOF-1 climate outlook for precipitation
Tunisia	Above normal	Above normal	Below normal to normal	Normal

The climatological period used is 1981-2010

### 5. Users' perceptions of the MedCOF-1 outlook

The use of seasonal forecast is not developed yet in Tunisia. We are searching for an application of this information in sectors of interest such as water resources management, agriculture or tourism.