

## ROYAUME DU MAROC

Ministère de l'Équipement,  
du Transport, de la Logistique et de l'Eau  
Département de l'Eau

DIRECTION DE LA METEOROLOGIE NATIONALE



المملكة المغربية  
وزارة التجهيز والنقل  
واللوجستيك والماء  
قطاع الماء  
مديرية الأرصاد الجوية الوطنية

### SEASONAL FORECAST OUTLOOK for North Africa

*August-September-October 2019 issued July-2019*

Seasonal forecast outlook for North Africa RCC domain is based on the ARPEGE-Climat coupled model output jointly with seasonal forecasts issued from ECMWF, UK Met-Office and IRI. The ARPEGE-Climat v5.2 coupled model is running at MAROC-METEO super-computer each month to elaborate seasonal ensemble forecasts. Sets of 27 forecasts are initialized by 9 atmospheric analysis, taken from ECMWF database, and 3 ocean analysis (PSY2G3R4) issued from MERCATOR center.

We also try to exploit the sources of predictability contained in the sea surface temperature (SST) by statistical methods when it is possible. We note, however, that this influence is not the same from one region to another or throughout all the year.

***NB:***

- 1. New: Multi-model probabilistic forecasts from EUROSIP and WMO LC-LRFMME*
- 2. All dynamical forecasts are experimental.*

### Synthesis:







































The analysis of current circulation, sea surface temperature, ENSO phenomenon and dynamical/statistical models outputs show probably for August-September-October 2019:

- For temperature:
  - ✚ Near normal conditions over the Atlantic Coasts and South West of Morocco.
  - ✚ Normal to above normal conditions over the remaining part of Morocco, Algeria, Tunisia, Libya and Egypt.

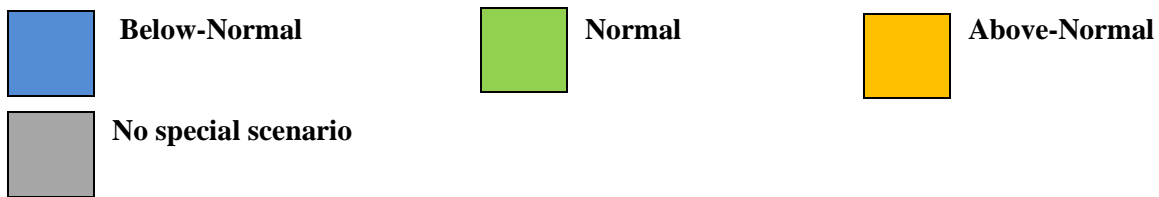
**NB: Precipitation forecasts are given for September to May (the main rainy season). Temperature forecasts are given for January to December.**

**Tables summarizing seasonal forecast for August-September-October 2019**

**1. Seasonal temperature forecast**

Model/multi-model	Morocco	Algeria	Tunisia	Libya	Egypt
<i>ARPEGE-Climat</i>	 W  Elsewhere	 Almost Algeria		 NW  Elsewhere	
<i>ECMWF</i>	 ATL& SE ATL Side  S  Elsewhere	 Almost Algeria		 N  Elsewhere	 W & N  Elsewhere
<i>UK Met-Office</i>	 N  Elsewhere				
<i>EUROSIP</i>					
<i>LRF-NMME</i>					
<i>IRI</i>	 N  Elsewhere		 Almost Tunisia		
<b>Synthesis</b>	Probably near normal conditions over the Atlantic Coasts & South west and normal to above normal elsewhere.	Probably normal to above normal conditions.	Probably normal to above normal conditions.	Probably normal to above normal conditions.	Probably normal to above normal conditions.

**Legend**



N: North; S: South; W: West; E: East; C: Center; ATL: Atlas