



## SEASONAL FORECAST OUTLOOK FOR NORTH AFRICA

*November-December-January 2020/21 issued October 2020*

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 Copernicus C3S 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 November-December-January 2020/21:

- For temperature:
  - ✚ Probably normal to above normal conditions over Morocco, Algeria, Tunisia, Libya and Egypt.
- For precipitation:
  - ✚ Probably normal to below normal conditions over Northern Morocco except Tangerois, Northern Algeria and Tunisia.
  - ✚ No special scenario elsewhere.

**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 NOVEMBER-DECEMBER-JANUARY 2020/21

### 1. Seasonal temperature forecast














































Model/multi-model	Morocco	Algeria	Tunisia	Libya	Egypt
<i>ARPEGE-Climat</i>					
<i>ECMWF</i>	 NW & S  Elsewhere	 NE  Elsewhere	 N  Elsewhere		
<i>UK Met-Office</i>	 Almost Morocco	 Almost Algeria	 Almost Tunisia	 Ext N & W  Elsewhere	 N & SE  Elsewhere
<i>C3S</i>					
<i>LRF-NMME</i>					
<i>IRI</i>		 S  Elsewhere		 S  Elsewhere	 Almost Egypt
<b>Synthesis</b>	<b>Probably normal to above normal conditions.</b>	<b>Probably normal to above normal conditions.</b>	<b>Probably normal to above normal conditions.</b>	<b>Probably normal to above normal conditions.</b>	<b>Probably normal to above normal conditions.</b>

### Legend



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

## 2. Seasonal precipitation forecast

Model/multi-model	Morocco	Algeria	Tunisia	Libya	Egypt
<i>ARPEGE-Climat</i>				 Almost Libya	 N  Elsewhere
<i>ECMWF</i>	 Almost Morocco	 NE & S  Elsewhere	 N  Elsewhere	 N  Elsewhere	 N & E  Elsewhere
<i>UK Met-Office</i>		 Almost Algeria			
<i>C3S</i>	 Almost Morocco	 Almost Algeria	 CW  Elsewhere	 C  Elsewhere	 S  Elsewhere
<i>LRF-NMME</i>		 N  Elsewhere	 S  Elsewhere	 SW  NE  Elsewhere	 N  Elsewhere
<i>IRI</i>	 C  Ext S  Elsewhere	 Almost Algeria			
<b>Synthesis</b>	<b>Probably normal to below normal conditions over the North except Tangerois. No special scenario elsewhere.</b>	<b>Probably normal to below normal conditions over the North. No special scenario elsewhere.</b>	<b>Probably normal to below normal conditions over the North. No special scenario elsewhere.</b>	<b>No special scenario.</b>	<b>No special scenario.</b>

### Legend



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