



SEASONAL FORECAST OUTLOOK for North Africa *October-November-December 2018 issued September 2018*

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 (PSY2G3R3) 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.
3. It is worth noting that seasonal forecast gives the major climate trends during a given season and in some cases subseasonal variations, generally not predictable sufficiently in advance, may dominate.

Synthesis






































The analysis of current circulation, sea surface temperature, ENSO phenomenon and dynamical/statistical models outputs show probably for October-November-December 2018:

- For temperature:
 - ✚ Normal to above normal conditions over Tunisia ,Algeria and South East Atlas side of Morocco.
 - ✚ Above normal conditions over Libya and Egypt.
- For precipitation:
 - ✚ No signal over Morocco, Algeria and Tunisia.
 - ✚ Normal to above normal conditions over North of 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 October-November-December 2018

1. Seasonal temperature forecast















































Model/multi-model	Morocco	Algeria	Tunisia	Libya	Egypt
<i>ARPEGE-Climat</i>	 S&ATL coast  E	 Almost Algeria			
<i>ECMWF</i>	 Almost Morocco			 Almost Libya	
<i>UK Met-Office</i>	 N  Elsewhere				
<i>EUROSIP</i>					
<i>LC-LRFMME</i>	 W  Elsewhere	 Almost Algeria			
<i>IRI</i>	 SE ATL side  Elsewhere	 S  Elsewhere		 S  Elsewhere	 N  Elsewhere
Synthesis	Probably normal to above normal conditions over SE side of the Atlas. No special scenario elsewhere.	Probably normal to above normal conditions	Probably normal to above normal conditions	Probably above normal conditions	Probably above normal conditions

Legend



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

2. Seasonal precipitation forecast

Model/multi-model	Morocco	Algeria	Tunisia	Libya	Egypt
<i>ARPEGE-Climat</i>			 S  Elsewhere	 Coast  Elsewhere	 N  Elsewhere
<i>ECMWF</i>		 Almost Algeria	 Almost Tunisia	 E&S  Elsewhere	 W  Elsewhere
<i>UK Met-Office</i>	 Almost Morocco	 Almost Algeria	 Almost Tunisia		 Elsewhere  SE
<i>EUROSIP</i>			 NE  Elsewhere	 Almost Libya	 NW  Elsewhere
<i>LC-LRFMME</i>	 Almost Morocco	 Almost Algeria		 N  Elsewhere	 E&N.coast  Elsewhere
<i>IRI</i>	 S  Elsewhere	 S  Elsewhere	 N  S	 CW  NW  Elsewhere	 N  Elsewhere
Synthesis	No special scenario	No special scenario	No special scenario	Probably normal to above normal conditions over the North	Probably normal to above normal conditions over the North

Legend

 Below-Normal
  Normal
  Above-Normal
  No special scenario

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