



SEASONAL FORECAST OUTLOOK for North Africa

October-November-December 2017 issued September 2017

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: All dynamical forecasts are experimental.

Synthesis:









































The analysis of current circulation, sea surface temperature, ENSO phenomenon and dynamical/statistical models outputs show probably for October-November-December 2017:

- For temperature:
 - ✚ Normal to above normal conditions over Morocco.
 - ✚ Above normal conditions over Algeria, Tunisia and Libya and Egypt.
- For precipitation:
 - ✚ Normal to below normal conditions over Algeria, Libya and Egypt.
 - ✚ No special scenario over Morocco and Tunisia .

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 2017

1. Seasonal temperature forecast

Model/multi-model	Morocco	Algeria	Tunisia	Libya	Egypt
ARPEGE-Climat	 Coast  Elsewhere	 SW  Elsewhere		 N  Elsewhere	 SW  Elsewhere
ECMWF	 Coast&C  Elsewhere	 N  Elsewhere		 N  Elsewhere	 Almost Egypt
EUROSIP					
UK Met-Office					
IRI		 SE  Elsewhere		 SE  Elsewhere	 SE  Elsewhere
Statistical Model					
Synthesis	Probably normal to above normal conditions	Probably above normal conditions	Probably above normal conditions	Probably above normal conditions	Probably above normal conditions

































Legend

 **Below-Normal**  **Normal**  **Above-Normal**

 **No special scenario**

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>					
<i>ECMWF</i>	 Almost Morocco	 N  Elsewhere	 N  Elsewhere		
<i>EUROSIP</i>					 E  Elsewhere
<i>UK Met-Office</i>	 Almost Morocco	 Almost Algeria	 Almost Tunisia		 Almost Egypt
<i>IRI</i>	 N  Elsewhere	 NE  Elsewhere		 N  Elsewhere	 NE  Elsewhere
Synthesis	No special scenario	Probably normal to below normal conditions	No special scenario	Probably normal to below normal conditions	Probably normal to below normal conditions

Legend



Below-Normal



Normal



Above-Normal



No special scenario

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