



SEASONAL FORECAST OUTLOOK for North Africa

November-December-January 2017 issued October 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 (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: 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 2017:

- For temperature:
 - ✚ Above normal conditions over all North African countries.
- For precipitation:
 - ✚ Normal to below normal conditions over all North African countries.

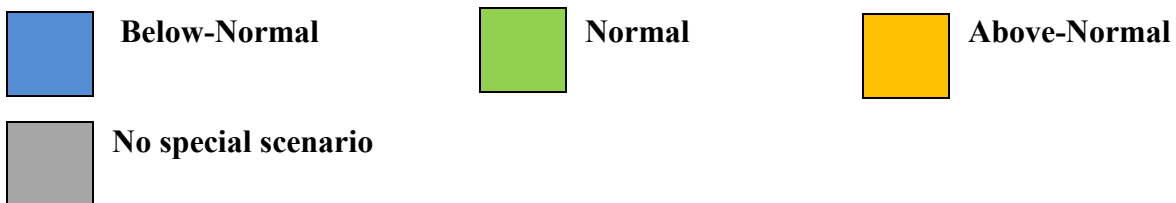
NB: Precipitation forecasts are given for September to May (the main rainy season). Temperature forecasts are given for January to December.

Tables summarizing seasonal forecast for November-December-January 2017

1. Seasonal temperature forecast



































Model/multi-model	Morocco	Algeria	Tunisia	Libya	Egypt
<i>ARPEGE-Climat</i>					
<i>ECMWF</i>		 N  Elsewhere		 Almost Libya	
<i>EUROSIP</i>					
<i>UK Met-Office</i>					
<i>IRI</i>					 SE  Elsewhere
Synthesis	Probably above normal conditions	Probably above normal conditions	Probably above normal conditions	Probably above normal conditions	Probably above normal conditions

Legend

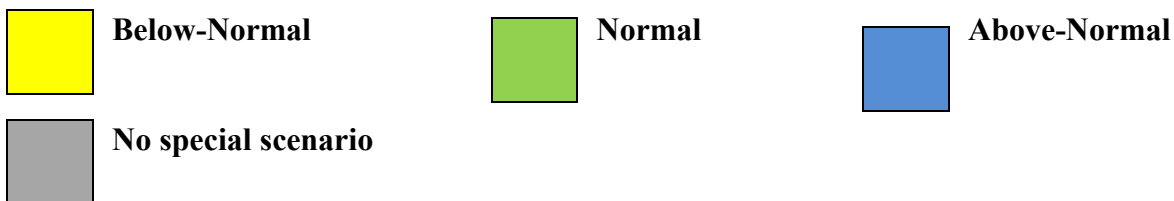


N :North ; S:South ; W:West ; E:East ; C:Center

2. Seasonal precipitation forecast

Model/multi-model	Morocco	Algeria	Tunisia	Libya	Egypt
<i>ARPEGE-Climat</i>				 S  Elsewhere	
<i>ECMWF</i>	 C&E  Elsewhere				
<i>EUROSIP</i>					
<i>UK Met-Office</i>	 N  Elsewhere	 Almost Algeria		 to 	 Almost Egypt
<i>IRI</i>	 C&E  Elsewhere	 W  Elsewhere	 N  Elsewhere	 NE  Elsewhere	 NE  Elsewhere
Synthesis	Probably normal to below normal conditions	Probably normal to below normal conditions	Probably normal to below normal conditions	Probably normal to below normal conditions	Probably normal to below normal conditions

Legend



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