



SEASONAL FORECAST OUTLOOK for North Africa

February-March-Avril 2017 issued January 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 February-March-April 2017:

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

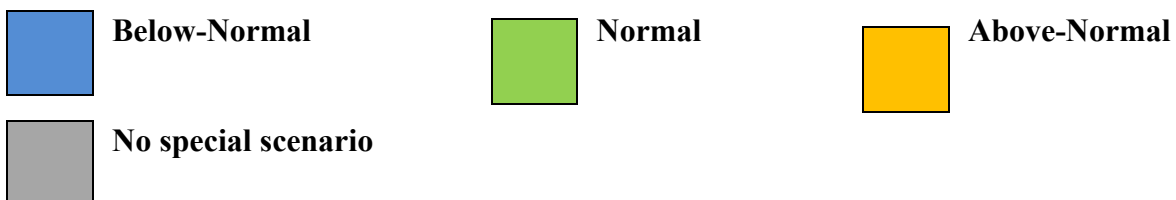
NB: Precipitation forecasts are given for September to May (the main rainy season). Temperature forecasts are given for January to December.

Tables summarizing seasonal forecast for January-February-March 2017

1. Seasonal temperature forecast



























Model/multi-model	Morocco	Algeria	Tunisia	Libya	Egypt
<i>ARPEGE-Climat</i>					
<i>ECMWF</i>	 C  Elsewhere	 Elsewhere  W	 S  Elsewhere		
<i>UK Met-Office</i>	 SE  Elsewhere	 to 			
<i>IRI</i>					
Synthesis	Probably normal to above normal conditions	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>					
<i>ECMWF</i>	 E&S  Elsewhere	 W  Elsewhere		 W&S  Elsewhere	 E  Elsewhere
<i>UK Met-Office</i>	 E&S  Elsewhere	 Almost Algeria		 Almost Libya	 Almost Egypt
<i>IRI</i>	 N  Elsewhere				
Synthesis	Probably normal to below normal conditions	No special scenario	No special scenario	No special scenario	No special scenario

Legend



Below-Normal



Normal



Above-Normal



No special scenario

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