

Royaume du Maroc

Ministère délégué auprès du Ministre
de l'Énergie des Mines de l'Eau et de
l'Environnement, chargé de l'Eau
Direction de la Météorologie Nationale



المملكة المغربية
الوزارة المنتدبة لدى وزير
الطاقة و المعادن و الماء و البيئة
المكلفة بالماء
مديرية الأرصاد الجوية الوطنية

**SEASONAL FORECAST OUTLOOK BULLETIN
for WMO NORTH AFRICA RCC domain
Season: DECEMBER-JANUARY-FEBRUARY 2015
Issued: November 2014**

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 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.

Synthesis:






























The analysis of seasonal forecasts issued from dynamical and statistical models for DJF2015 show probably:

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

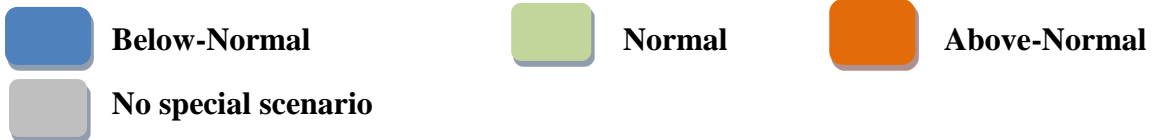
NB: Precipitation forecasts are given for September to May (the main rainy season). Temperature forecasts are given for January to December.

**Tables summarizing seasonal forecast for December-January-February 2015
in North Africa**

1. Seasonal temperature forecast
























Model/multi-model	Morocco	Algeria	Tunisia	Libya	Egypt
<i>ARPEGE-Climat</i>					 N  S
<i>ECMWF</i>		 N&W  Elsewhere		 N  S	 NW  Elsewhere
<i>UK Met-Office</i>					
<i>IRI</i>					
<i>Statistical model</i>					
Synthesis	Probably above normal conditions	Probably above normal conditions	Probably above normal conditions	Probably above normal conditions	Probably above normal conditions

Legend

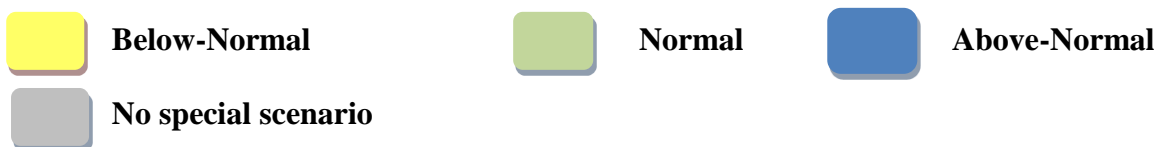


N :North ; S:South ; W:West ; E:East ; C:Center

2. Seasonal precipitation forecast

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

Legend



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