

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 for North Africa

*JUNE-JULY-AUGUST 2016 issued May 2016*

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 and dynamical/statistical models outputs show probably for June-July-August 2016 for temperature:

- ✚ Above normal conditions are likely inside Morocco and normal elsewhere on the country
- ✚ Above normal conditions are likely 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 June-July-August 2016**

**1. Seasonal temperature forecast**

<b>Model/multi-model</b>	<b>Morocco</b>	<b>Algeria</b>	<b>Tunisia</b>	<b>Libya</b>	<b>Egypt</b>
<i>ARPEGE-Climat</i>	 Inside  Else	 N  Else			
<i>ECMWF</i>					
<i>UK Met-Office</i>	 Inside  Else				
<i>IRI</i>					
<i>Statistical model</i>					
<b>Synthesis</b>	<b>Probably above normal conditions inside the country</b>	<b>Probably above normal conditions</b>	<b>Probably above normal conditions</b>	<b>Probably above normal conditions</b>	<b>Probably above normal conditions</b>

**Legend**

 Below-Normal     
  Normal     
  Above-Normal  
 No special scenario

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