

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: JULY-AUGUST-SEPTEMBER 2014  
Issued: JUNE 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.

***NB: 1. New: Since March 2014, statistical forecasts are elaborated for the outlooks especially for seasons showing interesting scores.***

***2. A new version of ARPEGE-Climat model with high and variable resolution (between 55km and ~100km over North Africa RCC domain) is operational at Maroc-Météo from January 2014***

**Synthesis:**































The analysis of seasonal forecasts issued from dynamical and statistical models for JAS 2014 show probably:

- For temperature:
  - ✚ Normal conditions over Morocco
  - ✚ Above normal conditions 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 July-August-September 2014  
in North Africa**

**Seasonal temperatures 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>		 N  S			
<i>ECMWF</i>	 W&S  Elsewhere	 N  S	 to 		
<i>UK Met-Office</i>	 to 				
<i>IRI</i>					
<i>Statistical model</i>					
<b>Synthesis</b>	<b>Probably normal conditions</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**



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