

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 FEBRUARY-MARCH-APRIL FMA 2014 IN NORTH AFRICA

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 run 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.

*PS: 1. We note that seasonal forecasts issued from all models are given in probabilistic form*

*2. Since January 2014, a new version of ARPEGE-Climat model with high and variable resolution (between 55km and ~100km over North Africa RCC domain) has been used at Maroc-Météo.*
























### Synthesis:

The overall analysis of precipitation and temperatures forecasts issued from different models for FMA 2014 show probably:





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

**Tables summarizing seasonal forecast for February-March-April 2014  
in North Africa**

**1. 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>					
<i>ECMWF</i>	 to 	 to 	 N  S		
<i>UK Met-Office</i>					
<i>IRI</i>					
<b>Synthesis</b>	<b>Probably normal to above normal conditions</b>	<b>Probably normal to 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

## 2. Seasonal precipitation forecast

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

### Legend

	Below-Normal		Normal		Above-Normal
	No special scenario				

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