

## ROYAUME DU MAROC

Secrétariat d'Etat auprès du Ministre de  
l'Équipement,  
du Transport, de la Logistique et de l'Eau,  
Chargé de l'Eau

DIRECTION DE LA METEOROLOGIE NATIONALE



المملكة المغربية  
كتابة الدولة لدى وزير التجهيز والنقل  
واللوجستيك والماء،  
المكلفة بالماء  
مديرية الأرصاد الجوية الوطنية

## SEASONAL FORECAST OUTLOOK for North Africa

*April-May-June 2018 issued March 2018*

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 (PSY2G3R4) 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:** *Introduction of Multi-model probabilistic forecasts from EUROSIP and WMO LC-LRFMME.*

**2.** *All dynamical forecasts are experimental.*

### **Synthesis:**









































The analysis of current circulation, sea surface temperature, ENSO phenomenon and dynamical/statistical models outputs show probably for April-May-June 2018:

#### ▪ For temperature:

- Normal to below normal conditions over Southwest Morocco.
- Normal to above normal conditions over the remaining part of Morocco, 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 temperature seasonal forecast for April-May-June 2018**

<b>Model/multi-model</b>	<b>Morocco</b>	<b>Algeria</b>	<b>Tunisia</b>	<b>Libya</b>	<b>Egypt</b>
<b>ARPEGE-Climat</b>	 Elsewhere  S&C coast				
<b>ECMWF</b>	 SE Atlas side  Elsewhere	 N  Elsewhere	 N  Elsewhere	 Almost Libya	
<b>UK Met-Office</b>	 N  S				
<b>EUROSIP</b>	 Elsewhere  South Coast				
<b>LRF-NMME</b>	 Elsewhere  S	 N  Elsewhere			
<b>IRI</b>	 N  Elsewhere	 N  Elsewhere			
<b>Synthesis</b>	<b>Probably normal to above normal conditions except Southwest (normal to below normal)</b>	<b>Probably normal to above normal conditions</b>	<b>Probably normal to above normal conditions</b>	<b>Probably normal to above normal conditions</b>	<b>Probably normal to above normal conditions</b>

**Legend**

 Below-Normal    Normal    Above-Normal    No special scenario

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