

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

March-April-May 2018 issued February 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 March-April-May 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.
- For precipitation:
 - ✚ Normal to above normal over Northwest of Morocco.
 - ✚ Normal to below 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 seasonal forecast for March-April-May 2018

1. Temperature Seasonal Forecast













































Model/multi-model	Morocco	Algeria	Tunisia	Libya	Egypt
ARPEGE-Climat	 Elsewhere  South coast				
ECMWF	 E  Elsewhere	 N  Elsewhere	 N  Elsewhere		
UK Met-Office	 S  Elsewhere				
EUROSIP				 E  Elsewhere	 N&E  Elsewhere
LRF-NMME	 Elsewhere  S				
IRI	 C  Elsewhere	 W  Elsewhere			
Synthesis	Probably normal to above normal conditions except Southwest (normal to below normal)	Probably normal to above normal conditions	Probably normal to above normal conditions	Probably normal to above normal conditions	Probably normal to above normal conditions

Legend

 Below-Normal  Normal  Above-Normal  No special scenario

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

2. Precipitation Seasonal Forecast

Model/multi-model	Morocco	Algeria	Tunisia	Libya	Egypt
<i>ARPEGE-Climat</i>				 NE  Elsewhere	 N  Elsewhere
<i>ECMWF</i>	 Almost Morocco	 N&S  Elsewhere		 N  Elsewhere	 NE  Elsewhere
<i>UK Met-Office</i>		 Almost Algeria		 Almost Libya	 to 
<i>EUROSIP</i>	 S&W  Elsewhere				
<i>LRF-NMME</i>	 N  S	 SW  Elsewhere	 C  Elsewhere	 E  Elsewhere	 Almost Egypt
<i>IRI</i>	 E&S  Elsewhere	 N  Elsewhere	 N  Elsewhere		
Synthesis	Probably normal to below normal conditions except Northwest (normal to above normal)	Probably normal to below normal conditions	Probably normal to below normal conditions	Probably normal to below normal conditions	Probably normal to below normal conditions

Legend

 Below-Normal
  Normal
  Above-Normal
  No special scenario

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