

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

May-June-July 2018 issued April 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 May-June-July 2018:

▪ For temperature:

- ✚ Normal to below normal conditions over Atlantic Coast of 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 May-June-July 2018

Model/multi-model	Morocco	Algeria	Tunisia	Libya	Egypt
ARPEGE-Climat	 Atl coast  Elsewhere	 Coast  Elsewhere	 Almost Tunisia	 Almost Libya	 W  Elsewhere
ECMWF	 N & Coast  E  Elsewhere	 N  Elsewhere	 N  Elsewhere	 Almost Libya	
UK Met-Office	 NE  S				
EUROSIP	 E  Elsewhere	 N  Elsewhere	 N  Elsewhere	 N  Elsewhere	 Almost Egypt
LRF-NMME	 Atl Coast  C&SE  Elsewhere	 Almost Algeria	 N  Elsewhere	 C  Elsewhere	 Almost Egypt
IRI	 N  Elsewhere	 S  Elsewhere	 Almost Tunisia		
Synthesis	Probably normal to above normal conditions except Atlantic Coast (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