

ROYAUME DU MAROC

Ministère de l'Équipement,
du Transport, de la Logistique et de l'Eau
Département de l'Eau

DIRECTION DE LA METEOROLOGIE NATIONALE



المملكة المغربية
وزارة التجهيز والنقل
واللوجستيك والماء
قطاع الماء
مديرية الأرصاد الجوية الوطنية

SEASONAL FORECAST OUTLOOK for North Africa

June-July-August 2019 issued May 2019

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,EUROSIP, WMO LRFMMME 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: 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 June-July-August 2019:

- For temperature:
 - ✚ Normal to below normal conditions over the Atlantic Coast and Southern Morocco.
 - ✚ Normal to above normal conditions over the remaining part of Morocco, almost all Algeria and Tunisia.
 - ✚ Above normal conditions over 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 June-July-August 2019

1. Seasonal temperature forecast

Model/multi-model	Morocco	Algeria	Tunisia	Libya	Egypt
<i>ARPEGE-Climat</i>				 E  Elsewhere	 NW  Elsewhere
<i>ECMWF</i>	 S  Elsewhere	 Almost Algeria		 Mediterranean Coast  Elsewhere	 Coasts  Elsewhere
<i>UK Met-Office</i>	 NE & S  Elsewhere	 SW  Elsewhere	 to 	 Almost Libya	
<i>EUROSIP</i>		 Almost Algeria			
<i>LRF-NMME</i>	 NW & S  Elsewhere				
<i>IRI</i>	 Atlantic coast & S  Elsewhere	 Almost Algeria	 Almost Tunisia	 S  Elsewhere	 N & SE  Elsewhere
Statistical Forecast	 Extreme S  Elsewhere				
Synthesis	Probably normal to below normal conditions over the Atlantic Coast & South and normal to above normal elsewhere.	Probably normal to above normal conditions over most of Algeria	Probably normal to above normal conditons	Probably above normal conditions	Probably above normal conditions

Legend



Below-Normal



Normal



Above-Normal



No special scenario

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