

## 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

*April-Mai-June 2020 issued March 2020*

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: Multi-model probabilistic forecasts from Copernicus C3S 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-Mai-June 2020:

- For temperature:
  - ▣ Probably normal to above normal conditions over Morocco.
  - ▣ Probably above normal conditions over 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 APRIL-MAI-JUNE 2020

Model/multi-model	Morocco	Algeria	Tunisia	Libya	Egypt
<i>ARPEGE-Climat</i>					
<i>ECMWF</i>					
<i>UK Met-Office</i>					
<i>C3S</i>					
<i>LRF-NMME</i>					
<i>IRI</i>	 N  Elsewhere				
<b>Synthesis</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>	<b>Probably above normal conditions</b>

### Legend



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