ROYAUME DU MAROC
Ministère de l'Equipement, du Transport, de la Logistique et de l'Eau

المملكـــــة المغربـــية
وزارة التجهيز والنقل واللوجستيك والماء
المديـــرية العامة للأرصاد الجويـــة

SEASONAL FORECAST OUTLOOK FOR NORTH AFRICA

***August-September-October 2021* issued *July* 2021**

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 August-September-October 2021:

- For temperature:
  - Normal to above normal conditions over most of Morocco.
  - 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.***

TABLE SUMMARIZING TEMPERATURE SEASONAL FORECAST
August-September-October 2021

Model/multi-model	Morocco	Algeria	Tunisia	Libya	Egypt
ECMWF					
UK Met-Office				 N Elsewhere	 Almost Egypt
C3S					
LRF-NMME					
IRI	 Almost Morocco	 SW&E S Elsewhere	 Almost Tunisia	 Almost Libya	 C Elsewhere
Synthesis	**No special scenario over western coasts Probably normal to above normal conditions elsewhere.**	**Probably above normal conditions**	**Probably above normal conditions**	**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 chain