



SEASONAL FORECAST OUTLOOK FOR NORTH AFRICA

April-May-June 2021 issued March 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 April-May-June 2021:

- For temperature:
 - ✚ Probably near normal condition over Southern Morocco
 - ✚ Probably above normal conditions over Northern 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 TEMPERATURE FORECAST APRIL-MAY-JUNE 2021

Model/multi-model	Morocco	Algeria	Tunisia	Libya	Egypt
<i>ARPEGE-Climat</i>					
<i>ECMWF</i>	 S&ATL coast  Elsewhere	 Almost Algeria		 Almost Libya	 Almost Egypt
<i>UK Met-Office</i>				 to 	 to 
<i>C3S</i>					
<i>LRF-NMME</i>					
<i>IRI</i>	 N  Elsewhere			 Almost Libya	
Synthesis	Probably above normal conditions over the North. Near normal conditions elsewhere	Probably above normal conditions	Probably above normal conditions	Probably above normal conditions	Probably above normal conditions

Legend



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