



SEASONAL FORECAST OUTLOOK FOR NORTH AFRICA

September-October-November 2020 issued August 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 September-October-November 2020:

- For temperature:
 - ✚ No special scenario is favored over the Atlantic coasts of Morocco and Southern Libya.
 - ✚ Probably normal to above normal conditions over the remaining part of Morocco and Libya, Algeria, Tunisia and Egypt.
- For precipitation:
 - ✚ Probably below normal condition over 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 FORECAST SEPTEMBER-OCTOBER-NOVEMBER 2020

1. Seasonal temperature forecast









































Model/multi-model	Morocco	Algeria	Tunisia	Libya	Egypt
<i>ARPEGE-Climat</i>	 Atl Coast  Elsewhere			 SE  Elsewhere	 SW  Elsewhere
<i>ECMWF</i>	 Almost Morocco	 Almost Algeria		 Almost Libya	 Almost Egypt
<i>UK Met-Office</i>		 S  Elsewhere		 Ext NW  Elsewhere	 Almost Egypt
<i>C3S</i>		 S  Elsewhere		 Ext NW  S  Elsewhere	 W  Elsewhere
<i>LRF-NMME</i>		 Almost Algeria		 Ext NW  Elsewhere	 Almost Egypt
<i>IRI</i>	 Almost Morocco	 Almost Algeria	 N  Elsewhere	 S  Elsewhere	 Almost Egypt
Synthesis	No special scenario over the Atlantic coasts. Probably normal to above normal conditions elsewhere.	Probably normal to above normal conditions.	Probably normal to above normal conditions	Probably normal to above normal conditions over the North. No special scenario elsewhere	Probably normal to above normal conditions

Legend



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

2. Seasonal precipitation forecast

Model/multi-model	Morocco	Algeria	Tunisia	Libya	Egypt
<i>ARPEGE-Climat</i>				 Almost Libya	 SW  Elsewhere
<i>ECMWF</i>	 Almost Morocco	 Almost Algeria		 N  Elsewhere	 NW  Elsewhere
<i>UK Met-Office</i>				 Ext S  Elsewhere	
<i>C3S</i>					
<i>LRF-NMME</i>		 Almost Algeria		 S  Elsewhere	 N & E  Elsewhere
<i>IRI</i>	 SE Atl side & S  Elsewhere	 W & C  Elsewhere		 N  Elsewhere	 N  Elsewhere
Synthesis	Probably below normal conditions	Probably below normal conditions	Probably below normal conditions	Probably below normal conditions	Probably below normal conditions

Legend



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